



# Update of Elk Grove Roadway Fee Program Draft Nexus Report: September 2022



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*Prepared by:*  
**Michael Baker International**  
2729 Prospect Park Drive  
Suite 220  
Rancho Cordova, Ca 95670  
Phone: 916-231-3358

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## **EXECUTIVE SUMMARY**

### **BACKGROUND**

The City of Elk Grove (City) approved its first Roadway Fee Program on December 1, 2003. The City adopted updates of the Elk Grove Roadway Fee Program (EGRFP) in 2005, 2009, and, most recently, in the 2014 Nexus Study Update. This 2022 update (2022 Nexus Study) updates the 2014 Nexus Study, including changes to roadway facilities and improvements (based upon the 2019 Comprehensive General Plan Update), updated construction cost estimates, refinements in the cost allocation methodology, and changes to State regulatory frameworks for impact fees and traffic impact analysis.

This 2022 Nexus Study provides the City with the necessary technical documentation and required findings to support adoption of the updated EGRFP, which will apply to future development in the City. After discussing the nexus between new development and the facilities needed to serve the new development, this report presents transportation facilities and cost estimates, as well as the methodology for allocating program costs to future development, and steps through the procedure leading to the maximum justifiable impact fee that may be levied for each land use based on the proportionate share of the traffic impact of each land use.

### **PURPOSE OF THE ELK GROVE ROADWAY FEE PROGRAM**

This 2022 Nexus Study documents the relationship between new development in Elk Grove and the cost of transportation facilities to serve projected growth in the current (2022) City limits. The 2022 Nexus Study also presents the cost estimates of transportation facilities necessary for growth and the updated impact fees by land use type that would generate revenues equal to these costs.

As do most municipalities in California, the City requires new development to pay impact fees to fund the facilities necessary to serve the new development. For the past several decades, since the passage of Proposition 13 and other State fiscal measures that have reduced local revenues, most local revenue sources, such as property tax and sales tax, are used primarily for operations and maintenance and have not been a reliable source for capital funding. Federal and state assistance has not replaced the decline in local revenue sources. These funding shortfalls have been a significant contributing factor in declining facility standards (i.e., the ratio of facility capacity to service population), which has accelerated the rate of physical deterioration, increased operating costs, and reduced the efficiency of existing facilities and departments. Given these funding difficulties and in the face of continued growth, most California cities and counties have adopted impact fee programs to provide the necessary funding for the capital facilities needed to serve growth.

The Elk Grove Roadway Fee is authorized by the Mitigation Fee Act; as such, the Roadway Fee may only be charged to new development and must be based on the impact that new development will have on the transportation infrastructure. The purpose of the 2022 Nexus Study is to update the nexus (or reasonable relationship) between new development that occurs in the City and the need for additional roadway improvements and facilities as a result of this new development. This EGRFP update is based on the goals identified in the City's 2019 General Plan and the latest traffic model output.

This 2022 Nexus Study includes roadway improvements required to meet the transportation performance targets as growth occurs.

**UPDATES IN THE 2022 EGRFP**

The 2021 traffic model conducted for the EGRFP indicated road segments, intersections, and other components of the transportation network to be included in the EGRFP in order to conform to the General Plan's goals, policies, and Roadway Sizing Diagram. **Appendix A** includes the complete descriptions for road segments, bridges and culverts, intersections, highway and urban interchanges, auxiliary lanes, and rural roadways.

This 2022 Nexus Study also includes changes to impact fee regulatory requirements:

- Senate Bill (SB) 743 (Steinberg, 2013) shifted traffic impact analysis from level of service to vehicle miles traveled (VMT) as the key metric in measuring the impacts of development projects on the transportation network. As a result of the legislation, and recent implementation practices, project developers will now have to reduce VMT to mitigate significant transportation impacts. This update of the EGRFP conforms to SB 743 by allocating costs in rough proportion to the VMT generated by each unit of development. Incorporation of VMT as the impact metric is consistent with General Plan policies and the City's Climate Action Plan. Note, however, the EGRFP is not a VMT mitigation fee.
- Assembly Bill 602 (Grayson, 2021) requires the payment of impact fees on residential development to be based on the floor area of new housing rather than simply per unit. The 2022 Nexus Study divides the fee schedule for residential housing into the 8 floor area categories listed below, which includes two new categories of senior adult residential. Multifamily projects, depending upon size, are generally included in the "up to 1,200 sq. ft." category.

Traditional (includes both single and multi- family units)	Up to 1,200 sq. ft.
	greater than 1,200 to 1,400 sq. ft.
	greater than 1,400 sq. ft. to 1,700 sq. ft.
	greater than 1,700 sq. ft. to 2,000 sq. ft.
	greater than 2,000 sq. ft. to 2,700 sq. ft.
	greater than 2,700 sq. ft. to 3,400 sq. ft.
	greater than 3,400 sq. ft.
Senior Adult	greater than 1,000 sq. ft.
	Up to 1,000 sq. ft.

In addition to the above categorization of residential, the following changes were made to the land use categories:

- Auto Mall rate updated with local data and based upon acreage of project, rather than building size, as the site acreage is a better reflection of traffic generation since the retail stock is stored outdoors.
- Updated listing for gas stations and theaters, with theaters listed by seat, rather than screen.
- New listing for hospitals.

Other changes to the EGRFP include:

- Separate fees for transit-oriented development (TOD) are not included in the 2022 Nexus Study. There are no high-quality transit facilities (as that term is defined by the State) and, therefore, no direct benefit in trip reduction that would reduce the impact fee obligation of a development project.
- Fee schedules have been combined into one Citywide zone. All infrastructure that was contemplated in the prior community facilities districts (CFDs) that were the basis for the fee zones has been completed, all bonds have been repaid, and the CFDs are no longer on the tax roll.
- The Elk Grove Trails Master Plan, including bike paths and pedestrian trails, has been moved from the EGRFP to a separate impact fee component, and covered under a separate nexus study.

**HOUSING AND EMPLOYMENT FORECASTS**

This 2022 Nexus Study analyzes the growth in land use to a point in time when that land use as described in the General Plan has occurred. This future date is referred to as “Build Out”. A specific date in time is not identified in this report; rather it is an anticipated state that would occur at some point in the future, likely 20 years or more from the date of this Nexus Study. The build out state is based upon the General Plan land use designations established for properties that are within the City limits as of the date of this Study. This Study does not include any areas that are within the City’s Sphere of Influence but not within the City limits, or other lands outside the City limits but that are within the General Plan Planning Area, as that area is established in the General Plan.

**Table ES-1** shows the estimated existing, or Base Year (as of January 2022), level of development and Build Out housing and jobs (number of people who are employed in jobs located in Elk Grove, as opposed to the City residents who are employed) compared with City of Sacramento and Sacramento County.

**Table ES-1: Housing and Employment Projections**

Jurisdiction	Base Year		Build Out		Growth	
	Households	Jobs	Households	Jobs	Households	Jobs
Region	921,100	1,063,600	1,187,400	1,364,300	266,300	300,700
<b>City of Elk Grove<sup>1</sup></b>	<b>53,700</b>	<b>47,400</b>	<b>72,800</b>	<b>93,800</b>	<b>19,100</b>	<b>46,400</b>
City of Sacramento	194,500	308,700	268,000	365,000	73,500	56,300
Sacramento County	570,400	688,500	724,900	839,900	154,500	151,400

Source: Fehr & Peers, 2022.

<sup>1</sup>The EGRFP includes more growth in the City than assumed in SACOG’s Metropolitan Transportation Plan/Sustainable Communities Strategy. Therefore, region totals were adjusted based on the difference in City of Elk Grove growth.

**Jobs-to-Housing Ratio**

A comparison of jobs-to-housing ratios in the Sacramento region is presented in **Table ES-2**. The City currently has a jobs-to-housing balance that is below the regional balance (0.88 versus 1.15). Consequently, many workers must travel outside of the City for employment. However, planned growth (e.g., in growth areas including the Southeast Policy Area) is anticipated to result in more

employment in the City at levels greater than the regional average. This shift is anticipated to translate into Elk Grove having more jobs for residents and becoming a net importer of workers rather than an exporter. The regional jobs-to-housing balance is expected to remain the same in the base year and Build Out at 1.15. The changing jobs-to-housing ratio is reflected in the travel demand model, which predicts the origin and destination of future trips that are generated within the region.

**Table ES-2: Jobs-to-Housing Ratios**

Jurisdiction	Base Year	Build Out
Region	1.15	1.15
<b>City of Elk Grove</b>	<b>0.88</b>	<b>1.29</b>
City of Sacramento	1.59	1.36
Sacramento County	1.21	1.16

Source: Fehr & Peers, 2022.

**Table ES-3** summarizes land use growth for the City of Elk Grove, stated in terms of total households, school and college enrollment, and retail, service, and industrial employment.

**Table ES-3: Household, Enrollment, and Employment Growth**

Land Use	Scenarios		
	Base	Build Out	Growth
Households	53,698	72,782	19,084
Enrollment			
K through 12	38,648	52,383	13,735
College	300	300	0
Employment			
Education	3,333	4,518	1,185
Food	3,466	5,788	2,322
Government	1,184	2,778	1,594
Office	8,840	20,926	12,086
Other	90	90	0
Retail	8,105	17,243	9,138
Service	4,148	16,186	12,038
Medical	5,816	8,816	3,000
Industrial	12,419	17,445	5,026
Total Employment	47,401	93,790	46,389

**FUNDS NEEDED TO COMPLEMENT FEE PROGRAM**

The City completed an inventory of roadway improvement projects that would be necessary to implement the General Plan Roadway Sizing Diagram and provide safe and efficient use of the roadway in the City. Over \$1.047 billion in improvements were identified. Of these, approximately \$702.9 million were identified as relating to new development. The City estimates that it can reasonably expect to receive approximately 36 percent in third-party funding, or about \$255.5 million. Third-party funding sources are described in Chapter 3 under "Other Funding Sources." The remainder of the cost, \$447.4 million, is allocated as fee revenue that will be collected from new development as its fair share of the program cost. These costs are summarized in **Table ES-4**.



**Table ES-4: EGRFP Share of Total Cost by Type of Facility**

Transportation Facility Type	Full Cost Estimate (A)	Included in Program (B)	Deducted Cost Scenario		
			EGRFP Funding (C)	Percent Third-Party Funding (D = 100-C)	EGRFP Funded Cost (E = B*C) *
Roadway Segments	\$287,389,983	\$287,389,983	64.8%	35.2%	\$186,239,125
Roadway Intersections	\$221,318,041	\$221,318,041	79.7%	20.3%	\$176,412,778
Bridges/Culverts	\$23,878,964	\$23,878,964	100.0%	0.0%	\$23,878,964
Auxiliary Lanes	\$16,762,500	\$16,762,500	100.0%	0.0%	\$16,762,500
RR Grade Separations	\$363,591,000	\$41,668,000	38.4%	61.6%	\$15,998,380
Interchanges	\$134,300,000	\$111,900,000	25.2%	74.8%	\$28,143,000
<b>TOTAL</b>	<b>\$1,047,240,488</b>	<b>\$702,917,488</b>	<b>63.7%</b>	<b>36.3%</b>	<b>\$447,434,747</b>

\* Totals do not match due to rounding

PROPOSED EGRFP FEE SCHEDULE

Tables ES-5 summarizes the proposed schedule of EGRFP impact fees for each land use category based on the analysis in the 2022 Nexus Study. These fees include a 5.5 percent administrative fee, discussed in further detail in Chapter 4.

**Table ES-5: Proposed EGRFP Fees**

Land Use		Unit	EGRFP Fees
Residential	Traditional	Up to 1,200 sq. ft.	\$3,860.99
		greater than 1,200 to 1,400 sq. ft.	\$7,345.30
		greater than 1,400 sq. ft. to 1,700 sq. ft.	\$8,098.66
		greater than 1,700 sq. ft. to 2,000 sq. ft.	\$9,417.05
		greater than 2,000 sq. ft. to 2,700 sq. ft.	\$10,358.75
		greater than 2,700 sq. ft. to 3,400 sq. ft.	\$11,017.94
	Senior Adult	greater than 3,400 sq. ft.	\$11,677.14
		Up to 1,000 sq. ft.	\$2,542.60
Commercial	Shopping Center	Square Feet	\$8.66
	Auto Mall	Acres	\$23,448.44
	Gas Station w/Convenience Market	Fueling Positions	\$11,865.48
	Theater/Cinema	Seats	\$94.17
Office	Square Feet	\$9.13	
Industrial	Square Feet	\$3.39	
Hotel	Hotel/Motel	Rooms	\$1,412.56
Miscellaneous	Hospital	Beds	\$8,757.85
	Assembly	Square Feet	\$3.48
	Day Care Center	Square Feet	\$13.28
	Congregate Care Facility	Dwelling Units	\$941.70
	Assisted Living	Beds	\$1,224.22
	Private School (K-12)	Student	\$1,318.39

## CURRENT EGRFP FEE SCHEDULE

The current EGRFP fee rate schedule is shown in **Table ES-6**. The rates are based on the 2014 Nexus Study and have been escalated automatically since adoption.

**Table ES-6: Current EGRFP Fees**

Land Use Category	Zone 1 (Elk Grove)	Zone 2 (Laguna)	Zone 3 (Laguna West)	Zone 4 (Lakeside)	Zone 5 (Stonelake)	Fee Application
RESIDENTIAL						
Single-Family (1 - 2 units)	\$11,247	\$9,443	\$8,230	\$5,825	\$10,993	per unit
Single-Family, Age-Restricted	\$4,358	\$3,740	\$3,458	\$2,733	\$4,285	per unit
Single-Family TOD <sup>1</sup>	\$10,124	\$8,496	\$7,410	\$5,245	\$9,892	per unit
Multifamily (3+ units attached)	\$7,815	\$6,393	\$5,736	\$4,076	\$7,642	per unit
Multifamily, Age-Restricted	\$4,343	\$3,723	\$3,441	\$2,718	\$4,267	per unit
Multifamily, TOD	\$5,860	\$4,790	\$4,301	\$3,055	\$5,731	per unit
COMMERCIAL						
General Commercial	\$10.18	\$7.36	\$7.06	\$3.22	\$9.89	per sq. ft.
Commercial TOD	\$9.63	\$6.92	\$6.66	\$3.01	\$9.34	per sq. ft.
Car Sales (new and used)	\$12.75	\$9.68	\$9.41	\$5.31	\$12.41	per sq. ft.
OFFICE						
Office	\$9.68	\$6.93	\$7.61	\$3.58	\$9.41	per sq. ft.
Office TOD	\$8.68	\$6.23	\$6.85	\$3.21	\$8.46	per sq. ft.
INDUSTRIAL	\$6.93	\$5.54	\$5.50	\$3.81	\$6.78	per sq. ft.
INSTITUTIONAL						
Assembly Use	\$6.81	\$5.69	\$4.95	\$3.54	\$6.68	per sq. ft.
Day/Child Care	\$25.24	\$21.21	\$18.52	\$13.13	\$24.81	per sq. ft.
Private School (K-12)	\$9.34	\$7.84	\$6.85	\$4.84	\$9.18	per sq. ft.
MISCELLANEOUS						
Gas Station	\$13,601	\$10,514	\$10,224	\$6,083	\$13,332	per fueling
Hotel /Motel	\$4,924	\$4,707	\$3,426	\$1,596	\$4,797	per room
Congregate Care	\$0.97	\$0.80	\$0.73	\$0.50	\$0.95	per sq. ft.
Health Club	\$6.71	\$5.61	\$4.93	\$3.47	\$6.60	per sq. ft.
Library	\$4.65	\$3.90	\$3.40	\$2.37	\$4.56	per sq. ft.

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## 1. INTRODUCTION

This 2022 Nexus Study presents an analysis of the transportation facilities needed to accommodate new development in Elk Grove and the use of development impact fees to fund the construction of these facilities. This chapter provides a brief overview of the use and practice of impact fees in California. This chapter also describes how the EGRFP was developed and applied to the future development projected in Elk Grove.

### TRANSPORTATION FINANCING IN CALIFORNIA

The changing fiscal landscape in California over the past four decades has steadily undercut the financial capacity of local governments to fund infrastructure needed for growth. Three dominant trends stand out:

- The passage of a string of tax limitation measures, starting with Proposition 13 in 1978 and continuing through the passage of Proposition 218 in 1996
- Declining popular support for bond measures to finance infrastructure for the next generation of residents and businesses
- Steep reductions in federal and state assistance

Faced with these trends and State and local legislation, cities and counties have had to shift the burden of funding infrastructure expansion from existing rate- and taxpayers to new development. This funding shift has been partly accomplished by the imposition of development impact fees, also known as public facility, capital facility, or mitigation fees. A key advantage of this approach in an era of voter approval requirements is that impact fees are not taxes and are thus exempt from the requirements of Proposition 218, needing only a majority vote of the legislative body for adoption.

In most local agencies that have implemented impact fee programs, new development pays close to the full cost required to ensure a funding source for the necessary infrastructure as growth occurs. If local agencies do not collect the full amount, the effect is often a decline in facility standards, though some communities are able to increase other revenue sources to compensate.

### STATUTORY AUTHORITY FOR THE EGRFP

In California, cities and counties rely on their authority to levy impact mitigation fees under the police powers granted by the California Constitution pursuant to the procedures of the Mitigation Fee Act, contained in Government Code Section 66000 et seq. The 2022 Nexus Study provides the necessary documentation for the City to adopt updated impact mitigation fees to fund the fair share cost of future development.

### EGRFP DEVELOPMENT PROCESS

The process for updating the EGRFP begins with an updated land use forecast based on regional housing and employment projections discussed in Chapter 2—Land Use Growth Assumptions. Using a travel demand model, the forecasted growth in land use is converted to VMT, based on rates for each land use type. The projected future travel on roadways is then compared with the

City's transportation performance targets to determine which roadways are adequate and which need improvement to meet the needs of the projected growth.

The transportation improvements are categorized into the following types of facilities:

- Roadways
- Intersections
- Bridges and Culverts
- Railroad Grade Crossings
- Highway/Urban Interchanges
- Auxiliary Lanes

In total, the 2022 EGRFP includes 165 transportation improvements projects.

The next step in the process is developing construction cost estimates for each project. Chapter 3 provides details on EGRFP costs.

#### PLAN-BASED COST ALLOCATION

The final step in the process is allocating the transportation facility improvements costs to future development. The EGRFP incorporates a plan-based fee methodology whereby the costs of planned future roadway facilities are allocated to future development based on the expected travel on the roadways generated by the future development.

The 2022 Nexus Study report outlines the methodology to allocate the costs of future roadway facilities on a basis proportionate to each future land use category's relative benefit received from such facilities.

#### TRAVEL DEMAND MODEL

The transportation improvements needed to serve future development in the City were determined through traffic forecasts generated by the City's travel demand model, which is a focused version of the Sacramento Area Council of Governments' (SACOG) SACSIM 2015 travel demand model. The City and its traffic consultant, Fehr & Peers, have periodically updated the traffic modeling to reflect revised inputs. The traffic forecasts for this 2022 Nexus Study reflect the most up-to-date assumptions on future development and the future transportation system.

The EGRFP project list includes new roadway facilities or improvements to existing facilities that are needed to accommodate greater traffic volumes because of new development, aligning the roadway sizing with the policies of the General Plan.

The EGRFP primarily funds the construction of center lanes and medians for the City's arterial roadways. However, in certain, very limited circumstances, funding for roadway frontage improvements is included to comply with the General Plan policy of avoiding "zipper streets" where the number of travel lanes and/or the existence of bike lanes and sidewalks changes in the middle of a roadway segment, a change that can negatively affect safety.

TRANSPORTATION PERFORMANCE TARGETS

A key objective of the EGRFP is achievement of the policy goals of Elk Grove's General Plan. Policies MOB-1-2 and MOB-1-3 include roadway performance targets (RPTs) that are reflected in **Figure 1: Transportation Network Diagram** (Figure 3.7 of the General Plan).

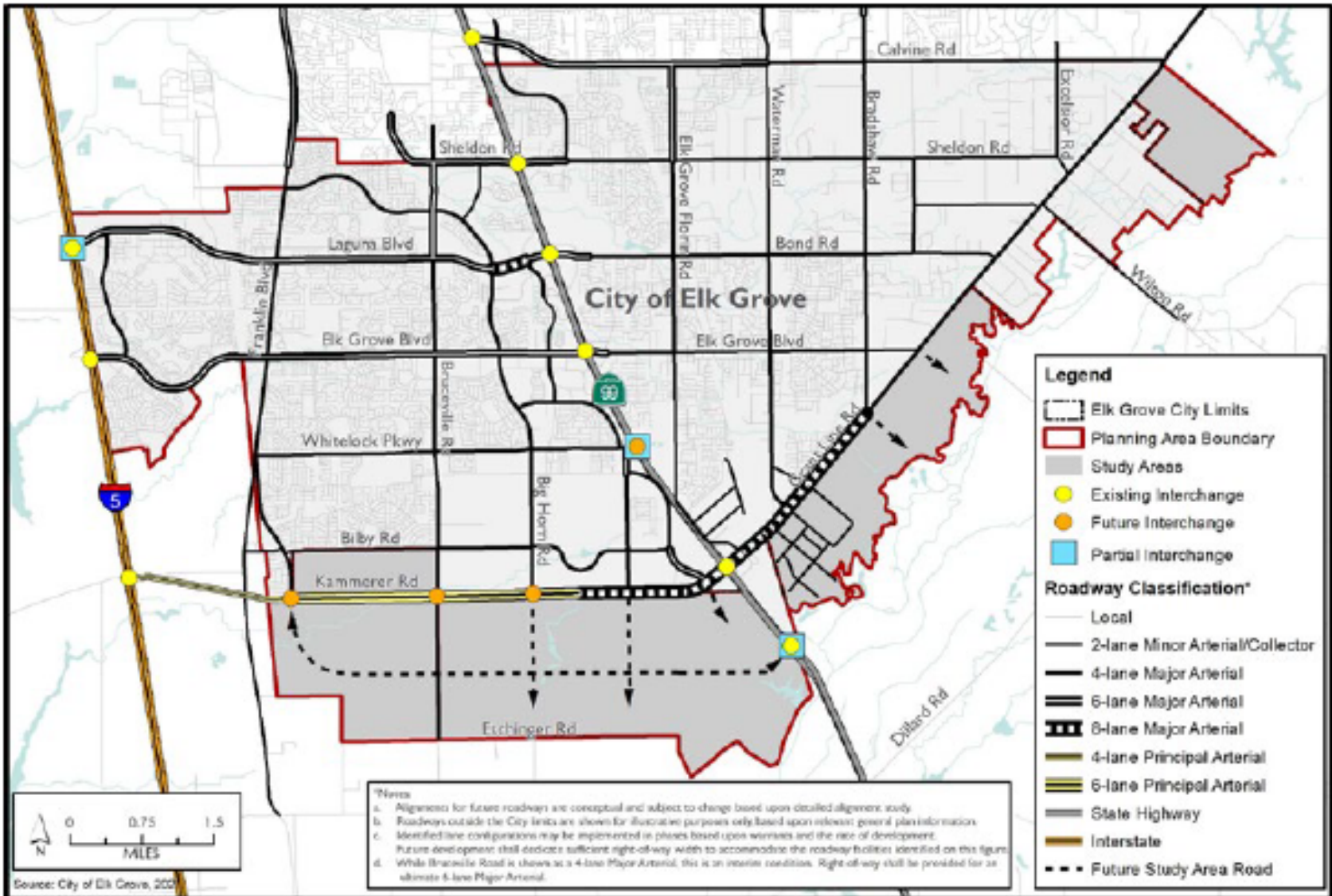


Figure 1 – General Plan Transportation Network Diagram

The RPTs provide guidance for intersection operations and road segment traffic design capacities and apply to major roadways (collectors, arterials, expressways, and freeways) and associated intersections. The RPTs also apply to pedestrian and bicycle mobility.

The objective of the EGRFP is to implement RPT policies by establishing a fee program that collects the appropriate share of funding from new development needed to construct roadway and intersection improvements necessary to meet the applicable performance targets. The transportation performance targets are outlined in Chapter 4.

#### PRINCIPLE OF IMPACT FEE NEXUS STUDIES

The fundamental impact fee principle is that future land developers cannot be required to shoulder the entire burden of achieving the performance targets of those transportation facilities that are shared by existing traffic or future traffic with an origin or destination outside Elk Grove's City limits. The costs of improvements that are shared in this way must be adjusted so that developers pay only a fair share of the costs. The fees proposed for the 2022 Nexus Study are adjusted to conform to the impact fee principle.

#### ORGANIZATION OF THE REPORT

As indicated above, Chapter 2 presents the land use growth assumptions used for the 2022 EGRFP Nexus Study. Chapter 3 presents the transportation improvements, the improvement project cost estimates, and criteria for including projects in the EGRFP. Chapter 4 outlines the process of allocating the cost of the improvements to new development and calculating the fee.

Chapter 5 provides the nexus findings needed to adopt the updated EGRFP fees. Finally, Chapter 6 summarizes the fee implementation procedures and recommendations for the ongoing administration of the fee. The recommendations are provided to ensure compliance with the Mitigation Fee Act and that fees are updated in the future for construction cost inflation, a change in the standards, or changes in development assumptions.

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## 2. LAND USE GROWTH ASSUMPTIONS

### INTRODUCTION

Estimates of future development in the 2022 Nexus Study area are key variables used to: 1) determine roadway facility requirements needed to achieve RPT as future development occurs; and 2) calculate EGRFP fee rates. The future development assumptions used in this 2022 Nexus Study represent the projected growth anticipated through buildout of the land uses identified in the City General Plan (comprehensively updated February 2019/last amended December 2021). This 2022 Nexus Study is based on the latest development assumptions for existing and future land uses within the current City limits.

The estimates of the growth in development were based on the following:

- The estimate of existing development in the 2014 Nexus Study was updated to 2022 conditions, which is based upon building permit activity on an annual basis as report by the City's Development Services Department.
- Assumed General Plan buildout development level densities for residential development and floor area assumptions for nonresidential were used for the purpose of apportioning costs to all land use categories.
- For approved development projects and those development projects that have applications pending for development, the planned residential units or nonresidential square footages were included as part of the General Plan buildout assumptions.

### LAND USE

#### Land Use Categories

Measuring the impact of growth on the transportation network requires the definition of a series of land use types that best represent the growth in land development forecast over the study period. Land uses are expressed in dwelling units for residential uses and square feet of floor area for nonresidential uses. The actual number of residential units and floor area for each nonresidential use can only be estimated based on expected population and employment growth for residential and nonresidential development, respectively. The population and employment projections provide the basis for a high-level estimate of the future absorption of new housing and nonresidential floor area.

When conducting a traffic impact analysis of specific land development proposals, the analysis is based on the travel demand characteristics of the proposed project. These characteristics include the number of daily trips generated (outgoing and incoming), percentage of trips occurring during the morning and afternoon peak periods, the length of trips, and the percentage of trips that are primary, diverted, or pass-by. For a macro-level analysis such as this 2022 Nexus Study, generalized groups of land uses are considered with the same characteristics applied to every subtype of land use within the group. Therefore, the impacts of new development are the aggregate impacts of all the various types of land uses within the EGRFP land use groups, which are defined as follows.



**Residential:** All residential uses, which are divided into two sub-categories as follows:

- **Traditional:** Includes a wide range of residential development, including, but not limited to, detached and attached single unit (i.e., single family) and two-unit (i.e., two family) development, as well as multiunit (i.e., multifamily) development. This listing is divided into seven sub-listings based upon the total square footage of the unit. This listing includes both market rate and affordable units but excludes units that are age restricted (see Senior Adult) and assistive and congregate care facilities, which are separately listed.
- **Senior Adult:** Housing restricted to identified age groups, typically 55+. In accordance with the square foot approach, the EGRFP fee schedule includes two categories of Senior Adult Housing: less than and up to 1,000 square feet and greater than 1,000 square feet.

**Commercial:** All general and specialty commercial, retail, food service, and similar development, which is divided into the following sub-categories:

- **Shopping Center:** Includes all retail uses, including grocery and dry good stores, department stores, bicycle sales and repair, and other uses engaging in retail sales, as well as restaurants, bars, nightclubs, and other establishments serving food and/or beverage for on or off-site consumption (with or without a drive through). Also includes vehicle repair or other services when independent of a fueling station or auto sales use. Also includes bank branches, fitness and gym uses, commercial recreation facilities (e.g., indoor amusement/entertainment, commercial recreation), private studios (e.g., dance, karate), and specialized education and training facilities.
- **Auto Mall:** Uses involving the sale or lease of automobiles, recreational vehicles, boats and other personal watercraft, motorcycles, or other similar vehicles. Includes on-site repair and service operations for those vehicles/crafts.
- **Fueling Station:** Uses involving the sale and dispensing of vehicle fuel (e.g., gasoline, diesel, hydrogen). Includes convenience market, vehicle car wash, electric vehicle charging stations (when the primary use of the site and not an ancillary activity) and similar uses when part of the same operation.
- **Theater/Cinema:** Facilities for assembly and group entertainment including civic theaters and facilities for "live" theater and concerts, exhibition and convention halls, motion picture theaters, public and semi-public auditoriums, and similar public assembly uses. Includes ancillary restaurant activity (e.g., in-seat dining, tradition concession sales)

**Office:** Professional, financial, insurance, administrative space, call centers, and medical offices.

**Industrial:** All manufacturing, fabrication, and food processing. This category may also encompass business parks, research, and development space, including "back office" or ancillary office activity, and ancillary employee-serving retail services. This land use category also includes mini-storage and other warehouse, distribution, and logistics services.

**Hotel/Motel:** Uses that provide for overnight accommodations for the traveling public.

### **Institutional**

- **Hospital:** Facilities engaged primarily in providing diagnostic services, and extensive medical treatment, including surgical and other hospital services
- **Assembly:** A facility operated by any person, entity, or organization for gatherings of a group of people to engage in social, civic, or entertainment activities including, but not limited to, worship, weddings, parties, dances, civic organization events, and community

## 2. LAND USE GROWTH ASSUMPTIONS

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events, and accessory uses on the same site, such as living quarters for staff, and child day care facilities where authorized by the same type of land use permit required for the facility itself.

- Day Care Center: A day care facility other than a family day care home, and includes infant centers, preschools, extended day care facilities, and school age childcare centers.
- Private School (K-12): Any privately owned and operated elementary school, middle school, secondary school, high school, or other institution providing academic instruction for students from kindergarten through twelfth (12th) grade.

### Miscellaneous

- Congregate Care Facility: A facility that provides an organized day program of therapeutic, social, and skilled nursing health activities and services and where services are provided on a less-than 24-hour basis.
- Assisted Living: A facility where varying levels and intensities of care and supervision, protective supervision, or personal care are provided, based upon their varying needs, as determined in order to be admitted and to remain in the facility. These facilities provide care, supervision and assistance with activities of daily living, such as bathing and grooming. They may also provide incidental medical services under special care plans. Common names for these types of facilities include, but are not limited to, assisted living facilities, retirement homes, and board and care homes. If a unit has no access to medical services or personal care it is classified as residential.

### Land Use Forecast/Absorption

A land use forecast and absorption analysis is conducted to provide an estimate of the potential annual EGRFP fee revenues. Based on records of residential and commercial permits issued for the three-year period between January 1, 2016, and December 31, 2018, the annual permits going forward is estimated.

### Residential

Permits were issued for 1,572 units (single family, duplex, mobile homes, and manufactured homes) with an average floor area estimated to be about 2,300 sq. ft. Therefore, the average number of permits for homes issued in one year is approximately 524 with a combined floor area of 1.20 million square feet. Note: the issued permit data include 1 manufactured home and 5 mobile homes and 48 senior housing units in duplexes.

### Multifamily

Building permits were issued for 141 units in 7 apartment projects during the 3-year period. Based on the project valuations and an average valuation cost of \$180 per square foot, it is estimated that the total gross floor area of these projects is 72,000 square feet. The annual average is 47 units and 24,000 square feet.

### Commercial, Office, Retail

The total floor area of 29 commercial permits of all types issued during the 3-year period is estimated at approximately 320,000 square feet, or about 11,000 square feet per permit. The annual average of new commercial floor area is therefore about 100,000 square feet per year.

### Shopping Center

Included in the above commercial permits-issued data are two shopping centers of 152,000 and 7,020 square feet. Due to this small sample size, an annual average for shopping center growth may be far from accurate. However, the retail trip generation rate in the EGRFP fee schedule is based on a 100,000-square-foot shopping center under the assumption that most new retail will locate within a shopping center of approximately this size. Therefore, it is reasonable to expect 100,000 square feet of new commercial in one year given the recent permit activity.

### Other Land Use Categories

- Hospital Assembly
- Day Care Center
- Congregate Care Facility
- Assisted Living
- Private School (K-12)

Except for Private Schools (one facility in 2019), the available records do not indicate permits were issued for these categories. Some permits, identified generically as commercial, may have included one or more of these categories.

### Applying the Impact Fees to Development Projects Involving More Than One Land Use

Some development projects may include more than one land use category, such as a mixed-use development with both residential and commercial uses. In these cases, the impact fee would be calculated separately for each land use category contained within the project.

The amount of impact fees payable should be evaluated prior to the issuance of a building permit and be based on the information in the permit application, including number and size and type of units, intended occupancy, and floor area per occupancy. In a single-use structure, the total of the fees would be the sum of each of the products of the fee rate for each facility category multiplied by the number of units or the floor area in the structure. For a mixed-use project, where more than one use will occupy a single permitted structure, an impact fee calculation would apply the appropriate fee rate to each portion of the structure containing an identified use. For a commercial-residential structure, the applicable residential fee rates would be applied to each residential unit (based upon the size of each unit) and the applicable nonresidential rates would be applied to each square foot of nonresidential floor area.

### SERVICE POPULATION

Different types of development generate impacts on the transportation network at different rates in relation to each other, primarily due to the residential or employment populations (service populations) associated with the type of development. The trip generation rates used in traffic impact analysis and this 2022 Nexus Study serve as an indirect measure of the impact that service population has on the transportation network. Trip generation is an indirect measure in the sense that the residential impact is largely related to the number of occupants of a household (there being a small but not insignificant proportion of service trips generated by a household during the day), whereas the trips to a business are composed of workers (usually two trips per day) and customers, whose origins are the residential neighborhoods within the business's market area. For

## 2. LAND USE GROWTH ASSUMPTIONS

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that reason, it is necessary to adjust commercial generation rates by the new trip factor so that trip lengths to commercial uses are not overstated.

The effect that household occupancy has on VMT is incorporated in this 2022 Nexus Study through the new fee schedule that applies different fee rates according to the range of the home sizes, as well as the average length of trips. Studies conducted in the Sacramento region and data from US Census Bureau's American Community Survey were used to make correlations between trips and income, then between income and home size.<sup>1</sup> The final correlation between trips and home size is the basis for the residential EGRFP fees.

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<sup>1</sup> The 2018 SACOG Regional Transportation Study includes a household travel survey of the six-county SACOG region. The household travel survey data includes various sociodemographic characteristic variables (e.g., the number of household residents and household income) and travel behavior variables (e.g. number of trips, trip purpose, and travel modes). Fehr & Peers used the results of this survey to produce household trip generation rate estimates. The household travel survey did not include questions regarding the size of the dwelling unit. However, the results of the 2011 American Housing Survey for the Sacramento Metropolitan Area contain detailed information on dwelling unit square footage and other sociodemographic characteristic variables, including the number of household residents and household income. The City of Elk Grove parcel database contains living area for single-family residential development and parcel (i.e., lot size.)

### 3. EGRFP PROJECTS AND PROJECT COST ESTIMATES

#### CURRENT EGRFP

The 2014 Nexus Study was accepted and the EGRFP fee schedule was approved on September 24, 2014. The total cost of roadway and trail improvements allocated to the fee, net of adjustments, was approximately \$291 million (2014 dollars). The improvements on the 2014 list that have been completed are not included in this 2022 Nexus Study. Also, with the 2019 General Plan amendment, several projects are no longer supported by the General Plan and were removed, while others have been added to the program. Also note, trail improvements are no longer included in the EGRFP and have been moved into a new Active Transportation Fee Program.

#### UPDATED EGRFP PROJECT COSTS

A complete listing of the updated EGRFP transportation projects by facility type is included in **Appendix A**. The cost summary for each type is presented in **Table 3.1**, which also shows the cost allocated to the EGRFP (future development's fair share).

**Table 3.1: EGRFP Projects Allocated Cost Summary**

Transportation Facility Type	Full Cost Estimate	Included in Program	Allocated Cost Scenario		
			EGRFP Funding	Percent Third Party Funding	EGRFP Cost Coverage*
Roadway Segments	\$287,389,983	\$287,389,983	64.8%	35.2%	\$186,239,125
Roadway Intersections	\$221,318,041	\$221,318,041	79.7%	20.3%	\$176,412,778
Bridges/Culverts	\$23,878,964	\$23,878,964	100.0%	0.0%	\$23,878,964
Auxiliary Lanes	\$16,762,500	\$16,762,500	100.0%	0.0%	\$16,762,500
RR Grade Separations	\$363,591,000	\$41,668,000	38.4%	61.6%	\$15,998,380
Interchanges	\$134,300,000	\$111,900,000	25.2%	74.8%	\$28,143,000
<b>TOTAL</b>	<b>\$1,047,240,488</b>	<b>\$702,917,488</b>	<b>63.7%</b>	<b>36.3%</b>	<b>\$447,434,747</b>

\*Totals do not match due to rounding

The roadway improvement cost estimates include, but are not limited to, most probable engineering estimates of the following items. The unit costs for these items are summarized in **Appendix B**:

- Roadway excavation
- Asphalt paving
- Median curb and landscaping
- Signing and striping
- Storm drain system
- Traffic signal interconnect
- Streetlights
- Right-of-way (where adequate existing right-of-way does not exist)
- Design and engineering

- Environmental mitigation/construction stormwater management
- Roadway improvement costs also include the following soft cost assumptions:
  - 10 percent for staking, permits, inspection, and testing.
  - 15 percent for engineering/surveying.
  - 20 percent for cost contingency.

Before the improvement costs are allocated to future development, the costs included in the program were adjusted by the following factors for purposes of calculating the EGRFP fees:

- Assumed funding from other agencies;
- Grant funding;
- EGRFP projects funded by the City; and
- Projects funded or constructed by developers as project exactions for direct impacts.

These funding sources are described in the section below entitled “Other Funding Sources.”

Detailed EGRFP project cost estimates for all facility types are in **Attachment B** of the 2022 Nexus Study.

#### EGRFP Project Criteria

The EGRFP project list has been updated to reflect the current list of roadway facilities required to serve the City's General Plan buildout (within current 2022 City limits). The updated project list is based on specific roadway standards and design criteria and reflects the policy decisions of the City Council. The following documents provide the nexus and criteria used to determine whether an improvement would be included in the updated EGRFP.

- General Plan Policies MOB-1-1, 1-2, 1-3, 3-1, 6-1, 7-5, 7-6,
- Laguna Ridge Specific Plan
- Southeast Policy Area Community Plan and Special Planning Area
- Southeast Industrial Area Specific Plan
- Eastern Elk Grove Community Plan and the Triangle Special Planning Area
- The Rural Area Community Plan
- Old Town Special Planning Area
- Rural Roads Policy and Improvement Standards
- Grant Line Road Precise Plan (public draft)
- Interstate 5 and State Route 99 Highway Concept Reports
- Whitelock Parkway Interchange concept design
- Caltrans Fix I-5 project
- Caltrans State Route 99 Auxiliary Lane plans
- Sacramento City and Sacramento County General Plans
- Sacramento County Roadway Fee Program

The following Mobility Element policies are cited as EGRFP Nexus criteria. **Appendix A** indicates the applicable policy and/or set of policies:

**Policy MOB-1-1:** Achieve State-mandated reductions in VMT by requiring land use and transportation projects to comply with the following metrics and limits. These metrics and limits shall be used as thresholds of significance in evaluating projects subject to CEQA.

**Policy MOB-1-2:** Consider all transportation modes and the overall mobility of these modes when evaluating transportation design and potential impacts during circulation planning.

**Policy MOB-1-3:** Strive to implement the roadway performance targets (RPT) for operations of roadway segments and intersections, while balancing the effectiveness of design requirements to achieve the targets with the character of the surrounding area as well as the cost to complete the improvement and ongoing maintenance obligations. The Transportation Network Diagram reflects the implementation of the RPT policy at a macro level; the City will consider the specific design of individual segments and intersections in light of this policy and the guidance in the Transportation Network Diagram.

**Policy MOB-3-1:** Implement a balanced transportation system using a layered network approach to building complete streets that ensure the safety and mobility of all users, including pedestrians, cyclists, motorists, children, seniors, and people with disabilities.

**Policy MOB-6-1:** Plan and pursue funding to construct strategic grade-separated crossings of rail lines, prioritizing available funds using appropriate metrics.

**Policy MOB-7-4:** Require new development projects to provide funding or to construct roadway/intersection improvements to implement the City's Transportation Network Diagram. The payment of adopted roadway development or similar fees, including the City Roadway Fee Program and the voluntary I-5 Subregional Fee shall be considered compliant with the requirements of this policy with regard to those facilities included in the fee program,

**Policy MOB-7-5:** Assist Caltrans in implementing improvements to Interstate 5 and State Route 99 within the City as outlined in the most recent Caltrans Transportation Concept Report.

**Policy MOB-7-6:** Support efforts to develop the Capital Southeast Connector, providing a regional roadway connection from Interstate 5 and State Route 99 to US 50. The City will work with the Capital Southeast Connector Joint Powers Authority in implementing the planned roadway improvements.

**Policy MOB-7-8:** Support and use infrastructure improvements and technological advancements such as intelligent transportation management tools to facilitate the movement and security of goods throughout the City in an efficient manner.

The transportation projects included in the EGRFP are growth-serving projects, which are needed to accommodate future development. In general, growth-serving projects are those projects not required were it not for new development and associated traffic demand. For instance, an existing roadway facility may be adequate to serve existing traffic demand. However, new development may require the roadway to be extended or widened to meet the City's RPT. In that case, the full cost of the improvement is included in the EGRFP. If the traffic analysis indicates a roadway segment will operate within the performance target even with traffic from anticipated growth, no additional improvements to the roadway are planned and thus no cost is included in the EGRFP.

The Mitigation Fee Act precludes a fee program from requiring new development to pay the full cost of improvements to achieve the performance target if the roadway currently falls below the target. New development cannot be responsible for bringing roadways within performance targets. However, new anticipated development may cause the facility's operation to worsen. In these instances, it is acceptable to require new development to fund the costs of improvement up to, but not beyond, new development's impact.

For the 2022 Nexus Study, each roadway improvement identified in the Transportation Network Diagram was analyzed to determine whether the project was needed to accommodate new development and therefore should be included in the EGRFP.

The 2022 EGRFP update includes 165 transportation projects that reflect the policy direction of the City's General Plan, based on the land use growth projections in Chapter 2 and traffic volume forecasts presented in Chapter 4. The project list is based on the transportation system performance analysis (discussed in Chapter 4) and includes projects from transportation programming studies for transportation infrastructure projects and planning studies conducted for development projects in the City.

#### PROJECTS INCLUDED IN SACRAMENTO COUNTY TRAFFIC DEVELOPMENT FEE

The Sacramento County Traffic Development Fee Program includes roadway improvements that are along the City's shared boundary with the County. These include the widening of Calvine Road from Auberry Drive to Grant Line Road, and Grant Line Road from State Route 99 to Calvine Road. Revenue from the County program has been factored into the EGRFP update.

#### OTHER FUNDING SOURCES

The City must rely on funding sources other than the impact fee revenues for a portion of the total cost of the transportation improvements to reduce the net amount of roadway facility costs allocated to new development. **Table ES-4** summarizes the percentage of the amount of other funding sources ("Third-Party Sources") by major roadway facility.

Other funding sources include the following:

- Sacramento Transportation Authority (STA) Measure A
- STA development impact fee
- Regional, State, and Federal sources
- Private developer contributions
- City/other funding

These sources are described in more detail below.

#### Measure A and the STA Development Impact Fee

In November 2004, Sacramento County voters renewed the Measure A sales tax that helps fund local and regional transportation improvements. Along with the Measure A renewal, local jurisdictions in Sacramento County adopted the STA development impact fee to help



fund local and regional transportation projects. In February 2009, the City adopted a resolution imposing the STA fee on future development in the City.

#### Regional, State, and Federal Funding

A variety of governmental funding sources exist for transportation projects, including, but not limited to, State Gas Tax, the Local Highway Safety Improvement Program (HSIP), Congestion Mitigation and Air Quality Improvement (CMAQ), and Federal grant programs (e.g., RISE, BUILD, TIGER). These grant programs are managed by various regional, State, and Federal agencies, including the SACOG, Caltrans, the California Transportation Commission, Federal Highway Administration, and others.

Grant programs are competitive, and it is difficult to estimate the funding that will ultimately be awarded to an applicant. For that reason, this 2022 Nexus Study only assumes the "3<sup>rd</sup> Party Funding" amounts listed in **Table 3.1**, which may include grant funding.

#### EGRFP PROJECTS FUNDED BY DEVELOPERS/SPECIAL DISTRICTS

Land development projects may be required to construct certain segments of EGRFP projects as part of subdivision conditions of approval to meet access and circulation requirements. In some cases, developers may construct the facility and form a special district to finance the improvements (e.g., a Mello-Roos community facilities district). Where a developer constructs a facility that extends beyond the specified limits of the development project's conditions, a credit against the EGRFP fees may be issued or a reimbursement mechanism may be created to allow future development that would benefit from the improvement to contribute to the financing of the project.

#### ADDITIONAL COSTS AND ADJUSTMENTS TO EGRFP PROJECT COST ESTIMATES

Except for a few, very specific situations, the estimates for the EGRFP projects remove the cost of frontage improvements to account for the construction of frontage improvements (outer lanes, curb, gutter and sidewalk, parkway, and right-of-way landscaping) by developers of adjacent undeveloped parcels as a project exaction. Estimates for EGRFP improvement projects therefore include only the two inner lanes, and medians, if part of the applicable street standard.

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## 4. ROADWAY FEE CALCULATION AND COST ALLOCATION METHODOLOGY

The EGRFP fees are calculated on the basis of the proportional share of transportation network cost to new development. Improvement costs necessary to address the necessary improvements are allocated to the land uses in proportion to the projected share in terms of the trip rate and VMT generated by each land use over the planning horizon. The core of the cost allocation methodology is forecasting the traffic demand in trips generated on each of the EGRFP facility segments. This chapter outlines the process of establishing traffic demand as the basis for calculating the fee.

### TRAVEL DEMAND FROM NEW DEVELOPMENT

The purpose of the EGRFP is to determine the fair-share cost of the transportation improvements that may be allocated to new development in accordance with the Section 66000 of the California Government Code and the City's General Plan Policy MOB-7-4. The cost allocation begins with the determination of the transportation facilities necessary to support new development, which is accomplished through traffic modeling as described below.

### TRAFFIC MODEL DEVELOPMENT

Traffic volume forecasts for the 2022 EGRFP update were developed using a modified version of SACOG's SACSIM 2015 travel demand forecasting (TDF) model that was developed for the preparation and analysis of the City of Elk Grove General Plan Update (2019). The forecasting process included: 1) updating the base year model to represent January 1, 2020, conditions; 2) calibration and validation of the base year model; and 3) development of Build Out travel demand forecasts.

#### Traffic Volume Forecasts

Traffic volume forecasts for the EGRFP were developed using the following procedures and included the development of daily roadway segment traffic volume forecasts and AM and PM peak hour intersection turning movement forecasts (i.e., for select intersections):

Build Out Land Use – The EGRFP Build Out land use was developed by modifying the General Plan buildout forecasts, developed for the General Plan update, to include only the EGRFP area, which includes the 2022 City limits. Specifically, land use growth in the West, South, East (exclusive of the 2021 annexation area), and North Study Areas were removed.

Build Out Network – The EGRFP transportation network was developed using an iterative process. The process began with **Figure 1: General Plan Transportation Network** (General Plan Figures 3-6: Transportation Network Diagram and 3-7: Roadway Sizing Diagram) and included the following steps:

1. Analysis of Roadway Performance – Analyzed roadway network performance using the City's daily roadway traffic design targets.
2. Network Adjustment – Adjusted the roadway transportation network based on the roadway performance.

3. Reanalysis of Roadway Performance – Reanalyzed roadway network performance.
4. Forecasts Adjustment – Adjusted the daily and peak hour traffic volume forecasts using the difference-method/growth-increment procedure, which adds the increment of forecasted growth between the validated base year model and the updated EGRFP Build Out model to existing counts. For new roadway segments, direct model output was used and rounded to the nearest 100 trips.

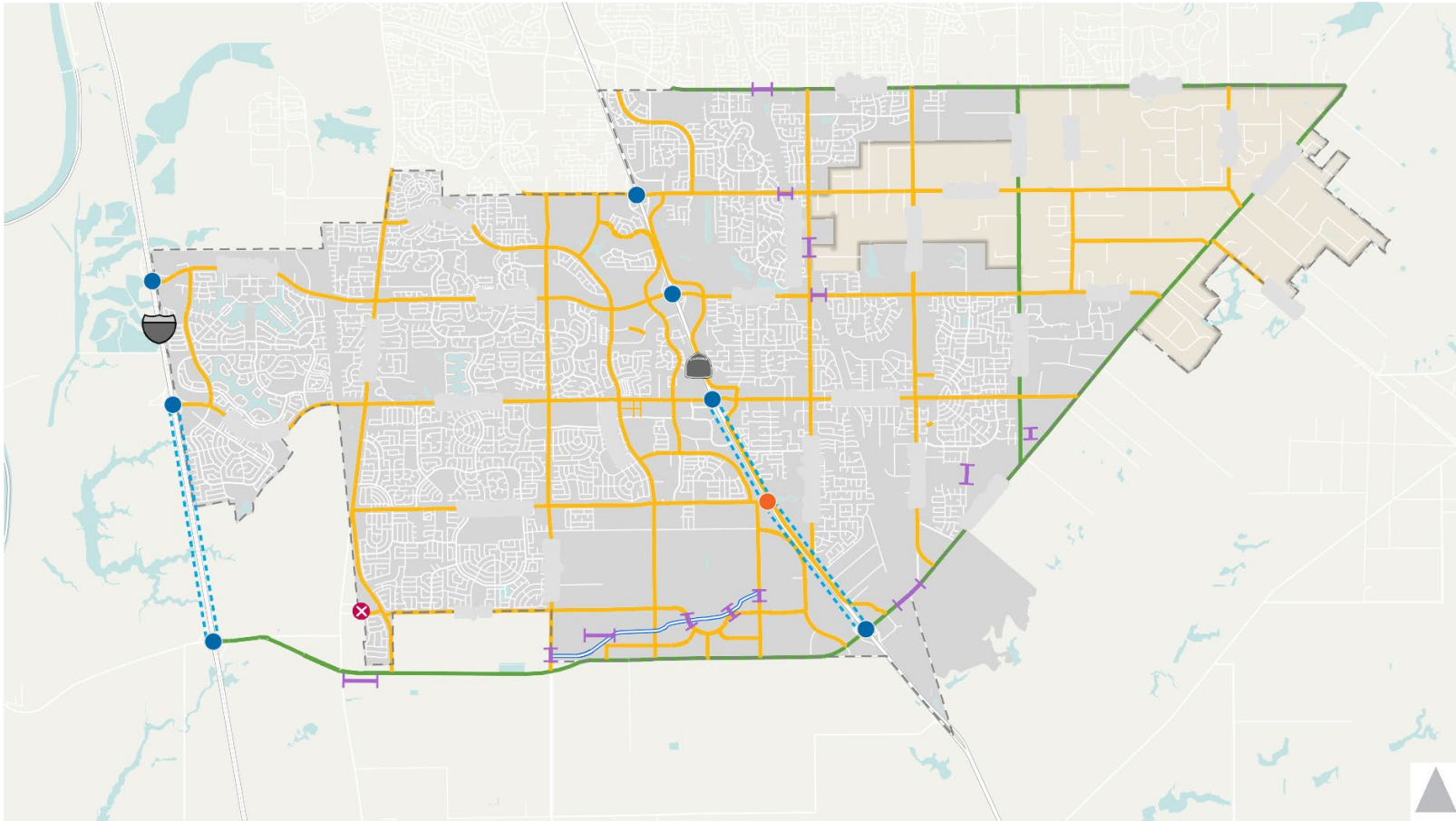
### Traffic Shares

Roadway segment traffic shares were developed for EGRFP roadways that may have shared funding between the City and other jurisdictions (e.g., Sacramento County, Sacramento City).

Funding for improvements on Bradshaw Road, Calvine Road, Grant Line Road, and Kammerer Road may be shared with Sacramento County and other local agencies, since a large share of traffic on these facilities will have at least one trip end in Sacramento County. These improvements will benefit planned development in the County by providing access to regional destinations. Therefore, a key component of establishing the nexus for these facilities is understanding the share of traffic on a study facility by jurisdiction.

TDF models are a convenient tool for fee program analysis, since they model the interaction of residential and nonresidential land use at a regional level, which helps to establish the nexus between new development and the transportation infrastructure needed to support it. SACOG's SACSIM TDF model was applied to generate traffic shares for the plan area roadways shown on **Figure 2**. The SACSIM TDF model (i.e., instead of the EGRFP TDF model) was used since it provides a market level of development that is forecast to occur in the next 20 years, consistent with the region's Metropolitan Transportation Plan/Sustainable Communities Strategy.

A common modeling technique called a select zone analysis was applied within the model to estimate the future traffic volume on each roadway link that is generated by land uses in the EGRFP area. On each model link that represents the location of an EGRFP project, the future traffic volume attributable to the EGRFP area was compared to the overall future traffic volume, thereby calculating the share of the link's usage that can be attributed to the land uses in Elk Grove, City of Sacramento, Sacramento County, and all "other" jurisdictions in the region. The traffic shares for Bradshaw Road, Calvine Road, Grant Line Road, and Kammerer Road are shown in **Table 4.1**.



**Figure 2 - EGRFP Project Area**

- |   |  |                         |                               |
|---|--|-------------------------|-------------------------------|
| Program Roadway                                 | Eliminate At-Grade Railroad Crossing             | Auxiliary Lanes         | City of Elk Grove City Limits |
| Program Roadway (Shared with Sacramento County) | Program Bridge/Culvert/Railroad Grade Separation | Shed-C Drainage Channel | Rural Elk Grove Area          |
| Study Interchange (Existing)                    |  |                         | Study Area                    |
| Study Interchange (Future)                      |  |                         | Column Break                  |

Source: Fehr & Peers, 2022

Table 4.1: Traffic Shares for Shared Roadways

Roadway	Segment		Traffic Share				
	From	To	City of Elk Grove	City of Sacramento	Sacramento County	Other	Total
Bradshaw Road	Vintage Park Drive	Calvine Road	31.4%	4.5%	56.0%	8.1%	100%
	Calvine Road	Sheldon Road	35.1%	1.4%	54.7%	8.8%	100%
	Sheldon Road	Bond Road	25.6%	0.6%	57.4%	16.4%	100%
	Bond Road	Elk Grove Boulevard	25.2%	0.7%	56.6%	17.5%	100%
	Elk Grove Boulevard	Grant Line Road	27.7%	0.3%	52.9%	19.1%	100%
Calvine Road	Power Inn Road	Elk Grove Florin Road	11.1%	30.1%	54.8%	4.0%	100%
	Elk Grove Florin Road	Waterman Road	19.8%	19.1%	57.2%	3.9%	100%
	Waterman Road	Bradshaw Road	16.6%	17.4%	61.6%	4.4%	100%
	Bradshaw Road	Vineyard Road	21.3%	14.5%	57.7%	6.5%	100%
	Vineyard Road	Excelsior Road	20.0%	14.7%	58.6%	6.8%	100%
	Excelsior Road	Grant Line Road	18.2%	17.4%	55.6%	8.9%	100%
Grant Line Road	Sloughhouse Road	Calvine Road	28.8%	3.6%	47.6%	20.0%	100%
	Calvine Road	Sheldon Road	31.8%	0.6%	45.7%	21.9%	100%
	Sheldon Road	Bond Road	29.0%	2.4%	49.8%	18.8%	100%
	Bond Road	Elk Grove Boulevard	33.7%	0.0%	42.5%	23.8%	100%
	Elk Grove Boulevard	Bradshaw Road	25.5%	0.2%	49.5%	24.8%	100%
	Bradshaw Road	Waterman Road	27.9%	1.2%	46.5%	24.5%	100%
	E. Stockton Boulevard	Waterman Road	37.7%	1.4%	39.7%	21.3%	100%
	E. Stockton Boulevard	SR 99	44.8%	2.8%	33.3%	19.1%	100%
Kammerer Road	I-5	Franklin Boulevard	35.2%	5.0%	24.4%	35.4%	100%
	Franklin Boulevard	Willard Parkway	35.2%	5.0%	24.4%	35.4%	100%
	Willard Parkway	Bruceville Road	35.2%	5.0%	24.4%	35.4%	100%
	Bruceville Road	Big Horn Boulevard	37.9%	2.8%	28.8%	30.5%	100%
	Big Horn Boulevard	Lotz Parkway	44.1%	1.1%	28.8%	25.9%	100%
	Bruceville Road	Promenade Parkway	51.8%	0.8%	27.1%	20.3%	100%
	Promenade Parkway	SR 99	62.1%	6.1%	20.6%	11.3%	100%

## TRIP GENERATION FACTORS

The share of traffic from a new land development project and its effect on the transportation network is directly related to the number of vehicular trips that the project generates. Different types of land use generate substantially different rates. In the Elk Grove travel demand model, the trips produced by all the land uses in each of the model's traffic analysis zones are summed up and the total is then converted to a dwelling unit equivalent (DUE). The DUE describes relative travel generated by different land uses to the travel generated by a single-family residential dwelling unit. Travel, as represented by VMT, is calculated based on the PM peak hour trip generation, trip length, and percentage of trips generated that are new trips—that is, trips that are not pass-by or trips that are not diverted from an origin to destination trip. The DUE rates provide a basis for allocating the cost of the transportation infrastructure being funded by the EGRFP to different land use development, relative to the amount of travel generated by the land use.

This 2022 Nexus Study uses the afternoon peak-period trip generation rates and typical trip lengths vehicle for major land use categories published by the Institute of Transportation Engineers (ITE), to calculate the VMT and the DUE rates in **Table 4.2** for each category.

Comparing the DUE rates in **Table 4.2** indicates, for example, that a multifamily dwelling unit would have 41 percent of the impact that a single-family dwelling unit would. Similarly, 1,000 square feet of retail land use (e.g., shopping center) would have 53 percent greater impact than a single-family dwelling unit.

**Table 4.2: Trip Generation Factors**

Land Use Category		Unit	PM Peak Hour Trip Generation Rate <sup>1</sup>	Trip Length (miles) <sup>2</sup>	Percent New Trips <sup>2</sup>	VMT	DUE Rate
Residential	Single Family <sup>3</sup>	Dwelling Unit	0.94	5.0	100%	4.70	1.00
	Multifamily <sup>4</sup>		0.39	5.0	100%	1.95	0.41
Retail <sup>5</sup>	1,000 Square Feet		5.64	2.4	53%	7.17	1.53
Office <sup>6</sup>			2.69	4.5	92%	11.14	2.37
Industrial			0.65	5.1	92%	3.05	0.65

Source: Fehr & Peers, 2022

<sup>1</sup> ITE, Trip Generation Manual, 11th Edition

<sup>2</sup> Trip Generation Handbook (3rd Edition), ITE Journal, May 1992

<sup>3</sup> Single family trip generation rate based on dwelling size range of 1,800 to 2,000 square feet.

<sup>4</sup> Multifamily trip generation rates based on dwelling size range of up to 1,200 square feet.

<sup>5</sup> Retail trip generation rate based on 100,000-square-foot shopping center.

<sup>6</sup> Office rate shown is a blend of ITE land use categories 710 and 720.

EGRFP Trip Generation Rates and Total DUE

The general trip generation factors in **Table 4.2** are used to determine the specific trip generation rates that are used to calculate the fee for each land use type in the EGRFP. The fee is determined by first finding the total DUE that will be generated by the future projected development. Using the projected growth in dwelling units and employment growth indicated in **Table ES-3** the DUE for each major land use category is calculated in **Table 4.3** . The projected number of employees are converted to floor area using industry standard employment density factors as indicated.

**Table 4.3: Total DUE Growth**

Land Use Category	Employees	Employment Density Factor (Sq. Ft. per employee)	Planned Growth, Units/Floor Area (1,000 sq. ft.)	DUE Factor	Total DUE Growth
Residential	N/A	N/A	Single-family: 15,284	1.00	15,284
	N/A	N/A	Multi-family: 3,800	0.41	1,558
Retail <sup>1</sup>	23,498	450	10,574	1.53	16,178
Office <sup>2</sup>	17,865	275	4,913	2.37	11,644
Industrial	5,026	1,200	6,031	0.65	3,920
				<b>Total</b>	<b>48,584</b>

<sup>1</sup> Retail includes food and service sectors

<sup>2</sup> Office includes education, government, and medical

TRANSPORTATION PERFORMANCE TARGETS

Transportation system performance follows the procedures outlined in the City of Elk Grove Transportation Analysis Guidelines (adopted February 2019/updated December 2019), which establishes the protocol for the analysis of the transportation system based on current state-of-practice methodologies for maintaining consistency with General Plan policy in regard to RPTs. Roadway and intersection performance targets are outlined below.

General Plan Policy MOB-1-3 includes performance targets for intersections and roadways. The objective of Policy MOB-1-3 is to balance the effectiveness of design requirements to achieve the targets with the character of the surrounding area as well as the cost to complete the improvement and ongoing maintenance obligations. The City strives to implement the roadway segment and intersection performance targets.

Road Segment Performance Targets

Study roadway segments were analyzed by comparing the daily roadway segment traffic volumes and forecasts to the average daily traffic volume design targets summarized in **Table 4.4**.

Table 4.4: Performance Targets for Roadways

Facility Type	Number of Lanes	Median	Speed (mph)	Average Daily Traffic Design Target (Number of Vehicles)
Arterial or Arterial\ Collector	2	No	25	13,600
			30	14,600
			35	15,700
			40	16,600
			45	17,700
			55	18,600
		Yes	25	14,300
			30	15,600
			35	16,500
			40	17,500
	4	No	45	18,600
			55	19,600
			30	29,800
			35	31,600
	4	Yes	40	33,500
			45	35,300
			30	31,400
			35	33,300
	5	Yes	40	35,300
			45	37,200
6	Yes	45	45,600	
		30	46,400	
		35	48,900	
		40	51,500	
7	Yes	45	54,000	
		45	59,400	
8	Yes	45	64,800	
		55	72,000	
Expressway	4	Yes	55	64,800
	6	Yes	55	97,200
Freeway	4	Yes	55+	74,400
	6	Yes	55+	111,600
	8	Yes	55+	148,800

Source: City of Elk Grove Transportation Analysis Guidelines (adopted February 2019/updated December 2019)



Intersection Performance Targets

**Table 4.5: Performance Targets for Intersections**

Intersection Control	(Delay in Seconds)
Stop (Side-Street & All-Way)	< 35.1
Signal	< 55.1
Roundabout	< 35.1

Source: City of Elk Grove Transportation Analysis Guidelines (adopted February 2019/updated December 2019)

Intersection improvements included in the EGRFP are based largely on:

- Corresponding roadway improvements presented in **Appendix A**;
- Analysis conducted for the City's General Plan; and
- Analysis conducted for other infrastructure and land use planning studies conducted for projects in the City, such as the Southeast Policy Area (see the complete list of applicable studies provided in Chapter 3).

As planned development occurs in the City, traffic growth will affect operations on improved study corridors that are built to their General Plan designation. However, while significant capacity improvements (e.g., roadway widening) may not be feasible or desirable, operational improvements at intersections may be available to improve performance in response to traffic growth from new development. Operational improvements may include the following:

- Traffic signal timing modifications
- Turn lane modifications
- Increased turn pocket storage
- Changes to intersection phasing
- Traffic signal equipment upgrades

The exact nature and scope of future improvements necessary to accommodate planned growth are difficult to determine with certainty, since the location and rate of development is not known.

Therefore, to support the development of generalized intersection improvement costs, detailed intersection analysis was conducted at 27 intersections located on Elk Grove Boulevard, Laguna Boulevard, and Bond Road. The operations analysis was conducted using the Synchro/SimTraffic software, which implements the methodologies contained in the Highway Capacity Manual, 6th Edition (Transportation Research Board, 2016). Appendix F of the Fehr & Peers EGRFP Update Report (on file with the City) summarizes the results of the detailed intersection operations analysis, outlines the operational improvements tested, and includes the detailed operations analysis output.

PLAN-BASED COST ALLOCATION METHOD

The 2022 Nexus Study evaluates and allocates the costs of the roadway facilities required to serve future development in the City. The study uses a plan-based fee methodology whereby the costs of planned future roadway facilities are allocated to future development anticipated to benefit from those facilities. To determine these future roadway facilities, the travel demand model considered the existing roadway facilities, the RPTs, and projected future development that may impact each facility. Based on these factors, it was determined whether existing facilities will be adequate to meet the travel demands of future development, or if improvements would be required to achieve the transportation performance targets set forth in the General Plan as future development occurs.

ROADWAYS COST FOR NEW DEVELOPMENT (FAIR SHARE)

The 2022 Nexus Study outlines the methodology to allocate the costs of future roadway facilities on a proportionate basis to each future land use category's relative benefit received from such roadway facilities. The 2022 Nexus Study estimates future development and evaluates the requisite improvements to serve the projected development. Other funding sources needed to fund the difference between the total cost of the improvements and the cost that may be allocated to new development were deducted as "Third Party" in **Table 3.1**. The net costs were then allocated proportionately to future development based on relative demand for roadway facilities as determined by the trip generating characteristics of each land use category expressed in DUE, as shown in **Table 4.6**.

**Table 4.6: EGRFP Cost per DUE**

Improvement Category	EGRFP Funded Cost	Total DUE	Average Cost per DUE
Roadways	\$186,239,125	48,584	\$3,833
Intersections	\$176,412,778		\$3,631
Bridges & Culverts	\$23,878,964		\$491
Railroad Grade Crossings	\$16,762,500		\$345
Highway/Urban Interchanges	\$15,998,380		\$329
Auxiliary Lanes	\$28,143,000		\$579
<b>Total</b>	<b>\$447,434,747</b>		<b>\$9,210</b>

Note: The costs listed in this table are before applying any existing fund balance or credit/reimbursement agreements, which reduce the cost per DUE. Totals and calculations may not equal due to rounding.

EGRFP DUE RATES

**Table 4.7** shows the calculation of DUE rates for an expanded list of EGRFP land uses using the trip generation factors in **Table 4.2**. This shows how the residential land uses are categorized according to ranges of square feet and how the fee would be applied to different nonresidential land uses, like theaters, for example, based on the number of seats.

**Table 4.7: DUE Rate per EGRFP Land Use Category**

Land Use		Unit	ITE Land Use Code	PM Peak Hour Trip Generation Rate	New Length	New Trips	VMT	DUE Rate	
7Residential	Traditional	Up to 1,200 Sq. Ft.	Dwelling Size	221	0.39	7.3	100%	2.85	0.41
		> 1,200 Sq. Ft. to 1,400 Sq. Ft.		See Note 1	0.73	7.3	100%	5.33	0.78
		> 1,400 Sq. Ft. to 1,700 Sq. Ft.		210	0.81	7.3	100%	5.91	0.86
		> 1,700 Sq. Ft. to 2,000 Sq. Ft.		See Note 1	0.94	7.3	100%	6.86	1.00
		> 2,000 SF to 2,700 Sq. Ft. Sq. Ft.			1.03	7.3	100%	7.47	1.10
		-greater than 2,700 sq. ft. to 3,400 sq. ft.		1.10	7.3	100%	8.03	1.17	
	> 3,400 Sq. Ft.	1.17	7.3	100%	8.54	1.24			
	Senior Adult	Up to 1,000 Sq. Ft.	Dwelling Size	252	0.25	7.3	100%	1.83	0.27
> 1,000 Sq. Ft.		251		0.30	7.3	100%	2.19	0.32	
Commercial	Shopping Center		1,000 Sq. Ft.	820	4.61	2.2	62%	6.29	0.92
	Auto Mall		Acres	See Note 2	12.50	1.8	76%	17.10	2.49
	Gas Station w/Convenience Market		Fueling Positions	945	22.76	1.9	20%	8.65	1.26
	Theater/Cinema		Seats	445	0.10	1.6	53%	0.085	0.01
Office		1,000 Sq. Ft.	710	1.44	5.0	92%	6.62	0.97	
Industrial		1,000 Sq. Ft.	110	0.65	4.1	92%	2.45	0.36	
Hotel	Hotel/Motel		Rooms	312	0.31	4.7	71%	1.03	0.15
Miscellaneous	Hospital		Beds	610	1.69	4.9	77%	6.38	0.93
	Assembly		1,000 Sq. Ft.	560	0.49	5.7	90%	2.51	0.37
	Day Care Center		1,000 Sq. Ft.	565	11.12	2.9	30%	9.67	1.41
	Congregate Care Facility		Dwelling Units	253	0.18	4.9	75%	0.66	0.10
	Assisted Living		Beds	254	0.24	4.9	75%	0.88	0.13
	Private School (K-12)		Students	534	0.19	6.2	80%	0.94	0.14

<sup>1</sup>Trip generation for single-family land use (i.e., by building area) developed using data from the 2018 SACOG Regional Transportation Study, 2011 American Housing Survey (for the Sacramento Metropolitan Area), and trip generation rates from ITE, Trip Generation Manual, 11th Edition, for single family land use (Code 210).

<sup>2</sup>Trip generation from StreetLight Data daily trip ends for Elk Grove Auto Mall (9/1/2018 to 10/31/2018). StreetLight data was verified using vehicle trip generation counts collected at Elk Grove Auto Mall (3/13/2006 through 3/16/2006). PM peak hour calculated using the ratio of peak-to-daily trip generation for ITE Land Use Code 840 (Automobile Sales-New).

Note: Totals and calculations may not equal due to rounding.

CURRENT EGRFP FUND BALANCE

City staff has reviewed the current EGRFP fund and identified that, after adoption of this update, there will be a remaining fund balance of \$26,253,431. This fund balance is subtracted from the total EGRFP cost to determine the final total DUE rate (see **Table 4.8**).

CREDITS AND REIMBURSEMENTS

City staff has reviewed the current EGRFP fund and identified that there are outstanding EGRFP credits of \$12,484,633. These outstanding credits are added to the total EGRFP cost to determine the final total DUE rate (see **Table 4.8**). The addition is made because this cost is due from future development to reimburse prior projects that constructed improvements in excess of the project's requirement (over-sized improvements) that provide a benefit to all new development.

**Table 4.8: Program Totals and Cost per DUE**

Item	Value
Total EGRFP Cost (Table 4.6)	\$447,434,747.26
Less Current EGRFP Fund Balance	(\$26,253,431)
Plus, Outstanding Credits and Reimbursement	\$12,484,633
<b>Total Program Cost</b>	<b>\$433,665,949</b>
Total DUE	48,584
<b>Net Cost per DUE</b>	<b>\$8,926.11</b>

Note: Totals and calculations may not equal due to rounding.

EGRFP ADMINISTRATION CHARGE

Development impact fee programs may include the cost of administering the program that funds the construction of public facilities necessary to serve new development, including these:

- The administrative costs of assessing, collecting, cost accounting, and public reporting of the EGRFP pursuant to Government Code 66006.
- The cost of justification analyses, legal support, and other costs of annual, periodic, and five-year updates to the EGRFP.
- Costs associated with the establishment and ongoing administration of an effective system of fee credits and cash reimbursements.
- Costs of capital planning and programming for the EGRFP, which includes costs associated with a capital program manager, a civil engineer, and public works analyst.
- City-led project contingency.
- Fee formation and update costs.

As an existing fee program, the City has historical data (provided in **Table 4.9**) that can be reviewed to understand the administrative costs associated with the Roadway Fee Program. The

#### **4. ROADWAY FEE CALCULATION AND COST ALLOCATION**

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following details these costs. In total, the City will assess an Administration Charge of 5.50% for each dollar of fee assessed on new development, which does not exceed the City's cost.

4. ROADWAY FEE CALCULATION AND COST ALLOCATION

Table 4.9: Historical Administrative Costs Compared to Fee Revenue

	Fiscal Year 2015	Fiscal Year 2016	Fiscal Year 2017	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022	8-year Average
<b>Revenue</b>									
Base Fee (excludes admin fee)	\$ 4,149,726	\$ 4,727,478	\$ 2,598,810	\$8,050,146	\$8,667,109	\$9,373,809	\$11,720,789	\$7,957,617	<b>\$7,155.685.37</b>
<b>Expenses - Finance Administration</b>									
Bank Fees	\$12,235	\$12,720	\$9,787	\$18,807	\$12,865.00	\$22,183.00	\$34,306.00	\$30,000.00	<b>\$19,112.88</b>
Salaries and Benefits (City Staff)	\$-	\$-	\$524	\$28,344	\$30,465	\$20,627	\$20,057	\$21,261	<b>\$15,159.69</b>
Administration (Consultant Charges)	\$-	\$8,040	\$6,374	\$16,734	\$23,490	\$24,865	\$12,127	\$83,120	<b>\$21,843.87</b>
Fee Program Updates	\$-	\$-	\$-	\$-	\$500,000	\$-	\$-	\$0	<b>\$62,500.00</b>
<b>Total</b>	<b>\$12,235.02</b>	<b>\$20,760.02</b>	<b>\$16,683.77</b>	<b>\$63,885.95</b>	<b>\$566,820.67</b>	<b>\$67,674.73</b>	<b>\$66,490.37</b>	<b>\$134,381</b>	<b>\$118,616.44</b>
<i>As Percent of Base Fee</i>	0.29%	0.44%	0.64%	0.79%	6.54%	0.72%	0.57%	1.69%	<b>1.66%</b>
<b>Expenses - CIP Program Administration</b>									
Salaries, Benefits, and Consultant Costs	\$189,440.02	\$251,049.00	\$300,905.00	\$442,938.45	\$839,135.00	\$565,405.85	\$587,438.00	\$325,160.00	<b>\$437,683.92</b>
<i>As Percent of Base Fee</i>	4.57%	5.31%	11.58%	5.50%	9.68%	6.03%	5.01%	4.09%	<b>6.12%</b>

### *Financial Administration*

Financial administration includes the management costs of the Program attributable to the City's Finance Department, including proportional salaries and benefits of staff assigned to the program, bank fees for holding the program assets, and consultant fees associated with, among other things, fund administration and conducting special rate calculations. Over the previous eight years (Fiscal Year 2015 through Fiscal Year 2022) these costs have averaged \$118,616. When compared to the average annual base fee revenue, this cost is 1.66% of program base revenue (i.e., base fees charged, exclusive of any administrative fee currently collected). Therefore, the City will impose a Financial Administration charge of 1.5% for each dollar of fee assessed on new development.

### *CIP Program Administration*

As mentioned, the costs for capital planning and programming for projects listed in the Fee Program, including staff and consultant time, may be charged to the Program. Referred to as Capital Improvement Program (CIP) Program Administration, these charges include salaries and benefits for the City's CIP Manager, various staff engineers, and administrative staff. It also includes consultant costs for various program functions, including but not limited to, management of the CIP, support on grant applications for projects listed in the Roadway Fee Program, and initial scoping of projects prior to project initiation. These combined costs are subject to the City's Cost Allocation Method, which assigns the total CIP Program costs on a percent basis to the various potential funding sources, including Roadway Fee, based upon the total construction costs and funding sources. For Fiscal Year 2022, for example, the total Administration costs were approximately \$1,478,000, with approximately 22%, or \$325,160, allocated to the Roadway Fee Program. Across the eight fiscal years analyzed, the average CIP Program Administration costs of \$437,683 represented 6.12% of program base revenue. Therefore, the City will impose a CIP Program Administration charge of 4.0% for each dollar of fee assessed on new development.

### PROPOSED EGRFP FEES

The proposed EGRFP fees are determined as the product of the DUE rates for each land use shown in **Table 4.7** multiplied by the average cost per DUE of \$8,926.11 from **Table 4.8**. The EGRFP fees are based on the total future development and the allocated fair share cost of transportation improvements. The proposed EGRFP fees, including the administrative charge are shown in **Table 4.10**.

**4. ROADWAY FEE CALCULATION AND COST ALLOCATION**

**Table 4.10: Proposed EGRFP Fee Schedule**

Land Use		Unit	EGRFP Fees	With Admin Fee <sup>1</sup>	
Residential	Traditional	Up to 1,200 sq. ft.	\$3,659.71	\$3,860.99	
		greater than 1,200 to 1,400 sq. ft.	\$6,962.37	\$7,345.30	
		greater than 1,400 sq. ft. to 1,700 sq. ft.	\$7,676.45	\$8,098.66	
		greater than 1,700 sq. ft. to 2,000 sq. ft.	\$8,926.11	\$9,417.05	
		greater than 2,000 sq. ft. to 2,700 sq. ft.	\$9,818.72	\$10,358.75	
		greater than 2,700 sq. ft. to 3,400 sq. ft.	\$10,443.55	\$11,017.94	
		greater than 3,400 sq. ft.	\$11,068.38	\$11,677.14	
	Senior Adult	Up to 1,000 sq. ft.	Dwelling Unit	\$2,410.05	\$2,542.60
greater than 1,000 sq. ft.		\$2,856.36		\$3,013.45	
Commercial	Shopping Center		Square Feet	\$8.21	\$8.66
	Auto Mall		Acres	\$22,226.01	\$23,448.44
	Gas Station w/Convenience Market		Fueling Positions	\$11,246.90	\$11,865.48
	Theater/Cinema		Seats	\$89.26	\$94.17
Office		Square Feet	\$8.66	\$9.13	
Industrial		Square Feet	\$3.21	\$3.39	
Hotel	Hotel/Motel		Rooms	\$1,338.92	\$1,412.56
Miscellaneous	Hospital		Beds	\$8,301.28	\$8,757.85
	Assembly		Square Feet	\$3.30	\$3.48
	Day Care Center		Square Feet	\$12.59	\$13.28
	Congregate Care Facility		Dwelling Units	\$892.61	\$941.70
	Assisted Living		Beds	\$1,160.39	\$1,224.22
	Private School (K-12)		Student	\$1,249.66	\$1,318.39

<sup>1</sup> Note: Totals and calculations may not equal due to rounding.

<sup>2</sup> Multi-family units are those units less than 1,200 square feet.



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## 5. NEXUS FINDINGS

### AUTHORITY

In California, cities and counties rely on their authority to levy public facilities fees under the police powers granted by the California Constitution pursuant to the procedures of the Mitigation Fee Act, contained in Government Code Section 66000 et seq.. This Nexus Study provides the necessary documentation for the City to adopt the updated Roadway Fee Program.

### MITIGATION FEE ACT AND REQUIRED FINDINGS

Because of the growing use of impact fees after the passage of Proposition 13 and concern over inconsistencies in their application, the California State legislature passed the Mitigation Fee Act, with AB 1600 in 1987. The act, currently contained in California Government Code Section 66000 et seq., establishes ground rules for the imposition and ongoing administration of development fee programs. The act became effective in January 1989.

### ASSEMBLY BILL 602 REQUIREMENTS

Assembly Bill 602 ("AB 602") added Government Code Section, 66016.5(a) pertaining to impact fees, which requires that on and after January 1, 2022, a local agency that conducts an impact fee nexus study shall follow all of the following specific standards and practices:

1. *"Before the adoption of an associated development fee, an impact fee nexus study shall be adopted"*

Adoption of this Nexus Study will satisfy this requirement.

2. *"When applicable, the nexus study shall identify the existing level of service for each public facility, identify the proposed new level of service, and include an explanation of why the new level of service is appropriate"*

As part of the development in the City's 2019 General Plan, the City comprehensively updated its Circulation policies around roadway sizing and improvements, to more closely align with Senate Bill 743 (SB 743), which, along with guidance from the State Governor's Office of Planning and Research, eliminates the use of Level of Service as a metric for determining environmental impacts of a proposed project under the California Environmental Quality Act (CEQA). With this change, and as implemented in this Nexus Study, the City's Roadway Fee Program is no longer a CEQA mitigation fee.

However, AB 602 requires that the City evaluate the needs for facility improvement based upon a level of service. Consistent with SB 743, the City has established Roadway Performance Targets in the General Plan, which function similar to traditional level of service. The Performance Targets establish average daily traffic volumes for different roadway sizes and configurations. Roadway sizing (i.e., land count configuration, median condition) is then determined based upon the projected average daily traffic levels as calculated from the City's traffic model, which includes both Base Year and Future/Buildout land uses. In certain circumstances, the City may approve deviations from the Performance Targets, where a lesser level of roadway sizing (i.e., fewer lanes) are

provided in response to local conditions, including existing development, historic or environmental resources, or other factors as provided in the General Plan. A similar series of metrics are provided for intersection conditions (stop sign, traffic signal, roundabout), with targets based upon the delay (in seconds) condition. Where an intersection performs at a delay level that exceeds the Performance Target, improvements are warranted to reduce the delay.

As part of the General Plan, all arterial and collector roadways (i.e., Roadway Fee Program Roadways) were analyzed to determine the necessary roadway sizing and intersection conditions at Buildout). The City Council then approved reductions in lane configurations and intersection type consistent with the General Plan policies and the City's Rural Roads Policy. These decisions, which are documented in the General Plan, where the foundation of improvements described in this Nexus Study. The Nexus Study then analyzes the costs associated with completing the improvements and assigns a fair share of this costs to new development, pursuant to the Mitigation Fee Act. This Nexus Study does not incorporate, nor propose, any changes in the level of service or the performance characteristics of the City's roadways from that provided in the General Plan (including the Transportation Plan, Roadway Sizing, and Performance Targets).

3. *"A nexus study shall include information that supports the local agency's actions, as required by subdivision (a) of Section 66001".*

Section 66001 (a) states that: *"In any action establishing, increasing, or imposing a fee as a condition of approval of a development project by a local agency, the local agency shall do all of the following:"*

- 1) *Identify the purpose of the fee.*

The purpose of the EGRFP is to provide a funding mechanism to support new roadway improvements necessary to serve new development throughout the City. The facilities identified and incorporated into the EGRFP are provided for in the City's General Plan, various area plans and specific plans, and are necessary to implement the City's Performance Targets.

- 2) *Identify the use of fee revenues.*

The fees charged to new development will be used to fund needed additions and improvements to roadways and other transportation improvements to accommodate future traffic volumes projected as a result of new development. Roadway additions and improvements include road widening and reconstruction, intersection signalization, railroad overcrossings, ITS, and interchange improvements.

- 3) *Determine a reasonable relationship between the fee's use and the type of development paying the fee.*

New development in the City will affect the operation and capacity of the City's roadways and, pursuant to the City's General Plan, improvements are necessary. Completion of the necessary roadway improvements will ensure that the increased traffic volume on City roadways caused by new development will not result in undesired roadway operational performance.

- 4) *Determine a reasonable relationship between the need for the fee and the type of development paying the fee.*

Each new residential and nonresidential development project in the City will add to the incremental need for transportation facility improvements, and each new development will benefit from the new transportation facility capacity. For new development to occur during the planning horizon of the City's General Plan, roadway improvements identified by the City's traffic model will be necessary to maintain acceptable operations.

- 5) *Relationship between Amount of Fees and Cost of or Portion of Facility Attributed to Development on Which Fee is Imposed*

The City's traffic model identified transportation improvements necessary to serve new development. Roadway improvements needed to serve new development were identified and the cost of these improvements was estimated. Construction of the roadway and intersection improvements will serve new development in the City. The cost of these improvements to be funded by new development in the City are allocated to each benefiting land use using a cost allocation method that measures the relative benefit for each land use. The costs were allocated using a plan-based allocation that factored in trip generation rates, vehicle miles traveled and trip length, and cumulative development potential under the General Plan. The result is a maximum justifiable fee for each new residential and nonresidential development that reflects the relative traffic impact on the roadway system.

4. *"If a nexus study supports the increase of an existing fee, the local agency shall review the assumptions of the nexus study supporting the original fee and evaluate the amount of fees collected under the original fee."*

The 2022 Nexus Study process included a review of the 2014 EGRFP Nexus Study and the supporting technical documentation, including the descriptions of proposed improvements and cost estimates. An evaluation was made of the original fee amount and a determination was made for each improvement whether: 1) the improvement had been completed; 2) was no longer required due to changes in land use; or 3) that the improvement should be carried over to the 2022 EGRFP with a revised cost estimate. The list of facilities and roadway improvements was also updated based upon the City's 2019 General Plan (updated since the 2014 EGRFP Nexus Study was prepared and adopted).

Depending upon the land use category, the proposed fee may be more or less than the existing fee. This is based on several factors, including: 1) changes in the existing and buildout land use assumptions, which incorporate changes from the 2019 General Plan Update; 2) changes in trip rates by land use as provided in the latest ITE Trip General Manual, which has been updated since the 2014 Nexus Study; 3) the addition of trip length (e.g., Vehicle Miles Traveled) into the calculation methodology to account for the relationship between different use types and their influence in increasing roadway sizes; 4) the elimination of the fee program zones and consolidation into a single zone; and 5) the segmentation of the residential fee rates based upon the requirements of AB 602 to base the fee for residential uses on dwelling

unit size. Table ES-6 illustrates the existing fee rates and table ES-5 illustrates the proposed fee rates.

5. *“A nexus study adopted after July 1, 2022, shall calculate a fee imposed on a housing development project proportionately to the square footage of proposed units of the development. A local agency that imposes a fee proportionately to the square footage of the proposed units of the development shall be deemed to have used a valid method to establish a reasonable relationship between the fee charged and the burden posed by the development.” A nexus study is not required to comply with this requirement if the local agency makes certain findings, which are described in Government Code Section 66016.5(5)(B)..”*

This Nexus Study complies with the requirement that the fee for residential development projects be calculated on the basis of square footage of the units by creating a fee schedule consisting of 8 floor area categories. The proposed fee schedule applies different fee rates according to the range of the home sizes, as well as the average length of trips for each home size category. Studies conducted in the Sacramento region by the Sacramento Area Council of Governments (e.g., the 2020 Metropolitan Transportation Plan and accompanying SACSIM 19 Traffic Model) and an analysis by the City's traffic consultant Fehr & Peers, along with data from US Census Bureau's American Community Survey were used to make correlations between trip rates and income, then between income and home size. The final correlation between trip rates and home size is the basis for the residential EGRFP fees.

This Nexus Study provides the technical documentation to support the above findings and determinations that establish the basis for imposing the increased fees as recommended.

This Nexus Study and the recommended fee schedule also conforms to the fundamental premise of the Mitigation Fee Act is that the burden of the impact fees cannot total more than the actual cost of the public facility needed to serve the development paying the fee. Also, fee revenues can only be used for their intended purposes. In addition, the Act has specific accounting and reporting requirements, both annually and after every five-year period, for the use of fee revenues. These requirements are covered in more detail in Chapter 6 of this report.

In addition, the impact fee revenues may not be used for staffing, operations, and maintenance of either existing or new facilities.

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## 6. IMPLEMENTATION

This chapter identifies tasks that the City will complete when implementing the fee program.

The EGRFP presented in this report is based on the best improvement cost estimates, funding source information, administrative cost estimates, and land use information available at this time. If costs change significantly, if the type or amount of new development changes, if other assumptions significantly change, or if other funding becomes available (as a result of legislative action on State and local government finance, for example), the fee program should be updated accordingly.

After the fees presented in this report are established, the City will conduct periodic reviews of roadway improvement costs and other assumptions used as the basis of the 2022 Nexus Study. Based on these reviews, the City may make necessary adjustments to the fee program through subsequent fee program updates.

### INFLATION ADJUSTMENT

For most of the projects, the costs in this report are shown in 2021 dollars based on the consultant's experience and actual construction costs of similar City-constructed improvements where available. To ensure that the fee program stays current with the prevailing cost of construction, the proposed fee will be automatically adjusted by the City annually to account for the inflation (or deflation) of construction, right-of-way acquisition, environmental, and design costs. Elk Grove Municipal Code Section 16.95.060 (A), which pertains to the EGRFP, provides that fee adjustments shall occur automatically on January 1st of each calendar year. Adjustments in the amount of the estimated construction costs of providing the specified road fee program facilities will be adjusted automatically based upon the average three-year adjustment in the Caltrans Cost Index. The adjustment will be based on a three (3) year moving average of the for the second (2nd) quarter of the year, or equivalent, as determined by the Finance Director. For example, the adjustment for January 2023 will be determined by calculating the average change for the previous three (3) prior year's indices, beginning with the second quarter of years June 30, 2019 to June 30, 2020, June 30, 2020 to June 30, 2021, and June 30, 2021 to June 30, 2022. The resulting value will be the adjustment factor that will be applied to the Roadway fee in January 2023.

### IMPLEMENTING ORDINANCES/RESOLUTIONS

The proposed fee would be adopted by the City through one or more ordinances authorizing collection of the fee and through one or more fee resolutions establishing the fee. The City has established Elk Grove Municipal Code Chapter 16.95 (Development Impact Fees), which establishes the City Roadway Impact Fee. That chapter will be updated to rename that fee the Elk Grove Roadway Fee Program, as that title is used in this report.

The fee will be effective 60 days following the City's final action on the ordinances authorizing collection of the fee and on the fee resolutions establishing the fee. The new ordinance and resolution should reference the automatic inflation adjustment factor discussed in this section.

### FEE ADMINISTRATION

The Roadway Fee will be collected from new development in areas subject to the fee at the time of the building permit issuance; use of these funds may need to wait until a sufficient fund balance

can be accrued. According to Government Code Section 66000, the City is required to deposit, invest, account for, and expend the fees in a prescribed manner.

#### **FEE EXEMPTIONS , REDUCTIONS, AND WAIVERS**

The EGRFP may be reduced under certain circumstances. Any exemptions or reduction in fees will be based on the City's independent analysis and review of the subject property.

The 2022 Nexus Study carries forward the exemptions, reductions, and waivers as determined in the 2014 Nexus Study. Except as otherwise provided herein, all determinations regarding the application of the exemptions listed in this section, along with determining any special fee calculations as allowed under this section, shall be made by the City Finance Director or their designee. Specific reductions or waivers provided in this section shall be made by the City Council as provided.

#### **Public Agencies**

All federal and state agencies, public school districts, facilities of the Cosumnes Community Services District (including fire stations and park sites), and the City will be exempt from the Roadway Fee. Other non-City public agencies shall be subject to payment of the Roadway Fee; however, the City may choose to waive some or all of the Roadway Fee in certain cases.

#### **Replacement/Reconstruction**

Any replacement or reconstruction (no change in use) of any residential unit or any nonresidential structure that is damaged or destroyed as a result of fire, flood, explosion, wind, earthquake, riot, or other calamity, or act of God shall be exempt from the Roadway Fee. However, if the replacement or reconstructed residential unit exceeds the documented total number of units or unit size of the damaged/destroyed residential structure, or the replacement or reconstructed nonresidential building exceeds the documented total floor area of the damaged/destroyed building, the excess units or building square footage is subject to the Roadway Fee.

If a residential or nonresidential structure is replaced with an alternative land use, such as replacing an office building with a retail building, then City staff will determine the appropriate Roadway Fee adjustment to reflect the different trip characteristics of the original and new land uses.

#### **Additions/Alterations/Modifications/Temporary Facilities**

The following rules shall apply to additions, alterations, modifications, and temporary facilities.

1. Accessory Dwelling Units and Junior Accessory Dwelling Units shall not be assessed a fee under the EGRFP.
2. Additions to residential structures where the total square footage of the dwelling remains within a fee category range, provided no change in use occurs and a second full kitchen is not added, shall not be charged a fee. If the square footage of the dwelling increases into a new fee category range, the difference of the two fee category ranges shall be collected prior to building permit issuance.
3. Except as otherwise provided, when an existing residential dwelling is converted into two primary units, or a new primary dwelling is added to the property, that new unit shall be assessed a fee consistent with the provisions of this Nexus Study.

4. Additions to multifamily residential structures that are not part of a mixed-use type project, provided no change in use occurs and no additional units result.
5. Supporting use square footage in multi-unit residential projects, such as the office and recreation areas required to directly serve the multifamily project, shall not be subject to a fee. The residential unit fee will provide the full mitigation required in multi-unit residential projects.
6. Non-habitable residential structures including, but not limited to, decks, pools and spas, pool cabanas, sheds, and detached garages shall not be assessed a fee. An attached garage shall/shall not count towards the square footage of the dwelling.
7. Mobile or manufactured homes that are not the primary residents and have no permanent foundation shall not be assess a fee.

### **Reductions and Waivers**

The City may reduce or waive the Roadway Fee for a development project if it can be determined that the proposed project will have reduced or no impact on any facility for which the Roadway Fee is collected. If a development project is found to have no impact such project may be exempted from the fees. If a project has characteristics that indicate its impacts on a public facility or infrastructure system will be significantly and permanently smaller than the average impact used to calculate impact fees in this Study, the fees may be reduced accordingly at the City's sole discretion.

The City may base its determination for fee reductions or waivers on evidence presented to the City by the project applicant that demonstrate one or more of the following conditions:

- The project will have substantially less residential occupancy or employment density than the assumptions indicated in this study for the proposed land use.
- Due to the nature of the project, such as location, anticipated use, expected market, and/or customer base, there is justifiable reason to expect less demand on transportation facilities. The applicant may provide evidence or cite authoritative sources which indicate that, for their specific project, one or more of the factors used in this Nexus Study (e.g., occupancy, trip generation, vehicle miles traveled) are lower than given for the general categories of this study.

The City shall review the evidence and make a recommendation to City Council of its findings and whether the impact fee may be reduced or waived for the development project.

In some cases, the City may desire to voluntarily waive or reduce impact fees that would otherwise apply to a project to promote goals such as affordable housing, economic development, or the provision of benefits that apply to the public at large. Such a waiver or reduction may not result in increased costs to other development projects and is allowable only if the City offsets the lost revenue from other funding sources.

### **Required Fees**

Below are examples of instances in which the Roadway Fee may be required for land uses that potentially could be classified as exempt from the fees:

1. Any project listed above that would otherwise be exempt from the fee (including both ministerial and discretionary projects), but which nonetheless, in the determination of the City Council, increases the demand on City facilities funded by the Roadway Fee may be subject to the fee. In determining to impose such fee, the City Council may impose the entire fee or pro rate the amount of the fee based on the project's demonstrated impact on the subject facility or facilities. Unlawfully constructed facilities and buildings, constructed before the adoption of the Roadway Fee, which later obtain a building permit consistent with applicable law to legitimize the facility or building, may be subject to the applicable fee. For discretionary projects, this determination may be made as part of the project approvals or at a subsequent meeting. For ministerial projects, the determination shall be made prior to issuance of the building permit after review and recommendation by the Finance Director and Development Services Director.
2. Shell buildings, meaning the construction of the exterior of the building with limited or no interior improvements (e.g., unfinished floors, limited electrical and plumbing) and with or without a heating, ventilation, and air conditioning (HVAC) system:
  - The full Roadway Fee can be made payable at the time the building permit for the shell building is obtained.
  - The incremental difference between the intended and actual use of any shell building may be collected on any building permit for tenant improvements.
3. Accessory residential structures that are converted to a Primary Residential Dwelling Unit and are not considered Accessory Dwelling Units or Junior Accessory Dwelling Units may be subject to the Roadway Fee as provided in this Nexus Study. A conversion shall be considered an Accessory Dwelling Unit or Junior Accessory Dwelling Unit if it conforms to EGMC Chapter. 23.90, and will not be subject to the Roadway Fee. A unit constructed pursuant to EGMC Chapter 23.30 shall be subject to the Roadway Fee.
4. Temporary buildings that are authorized for more than 30 days in any calendar year may be subject to the fee when converted to permanent use, as determined by the Finance Director.
5. The reconstruction of a building destroyed as a result of fire, flood, explosion, wind, earthquake, riot, or other calamity, or act of God, which has been vacant for more than five years.
6. That portion of the reconstruction of a building destroyed as a result of fire, flood, explosion, wind, earthquake, riot, or other calamity, or act of God, which is greater than the documented total number of units or square footage that was or would have been previously subject to the City's EGRFP.

### **Other Land Uses**

The EGRFP identifies Roadway Fee for the major land use categories identified by the City's traffic model. Specialized land uses may have unique trip generation rates, and in these cases, the City may require a project-specific traffic study and may calculate the applicable fee based on information derived from the traffic model. For specialized development projects, the City Finance Director or his/her designee, in conjunction with the Development Services Director and City Traffic



Engineer, will review traffic generation rates applicable to the specialized development and decide on an applicable fee.

### **Credit for Replacement of Existing Buildings**

Portions of the City are already developed. New development that replaces existing development is eligible for a fee credit to the extent that the facilities to be funded by the new development are already provided to the existing development. For example, a four-unit apartment complex that is replaced by an eight-unit apartment complex could receive up to a 50 percent credit in the fee ( $4/8 = 50$  percent). The City's Finance Director, in consultation with the Development Services Director, will determine the amount of the fee credit at the time a site plan is submitted to the City.

### **FEE CREDIT AND REIMBURSEMENT TO DEVELOPERS**

As is typical with development impact fee programs, many of the public infrastructure facilities are needed up-front before adequate revenue from the fee collection would be available to fund such improvements. Consequently, some type of private funding may be necessary to pay for the public improvements when they are needed. This private financing may be in the form of land-secured bonds, developer equity, or other form of private financing.

In cases where a private party (e.g., developer) has advance-funded an eligible EGRFP facility, the party will be due a reimbursement from the EGRFP. Reimbursements will be provided under the following conditions:

- Developer-installed improvements shall be considered for reimbursement. Only funds collected from the Roadway Fee shall be used to reimburse a developer who installed eligible roadway facility improvements identified in this report.
- The value of any developer-installed improvement for fee credit or reimbursement purposes shall be based on the lesser of the actual cost of eligible facilities (as determined at the sole discretion of the City via a review of the construction contract and payments made, plus an allowance determined by the City for soft costs directly associated with the facility design and construction) or the total eligible facility costs based on the cost schedule and estimate set forth in the EGRFP, subject to an automatic annual inflation adjustment described previously in this section.
- All construction contracts, construction work, and requests for reimbursement are performed in conformance with the most current City "Reimbursement Policies and Procedures for Privately Constructed Public Facilities," (Reimbursement Policies) available from the City.
- The reimbursement may be in the form of fee credits or cash reimbursements as described in more detail herein.

### **Credit and Reimbursement Implementation Process**

Once all criteria are met, fee credits up to 60 percent of the base fee obligation may be used to offset fees when payable at building permit issuance. To obtain fee credits, the public facility project must meet all criteria and developers must apply to the City before payment of fees on the first unit associated with final development approval. The City maintains the flexibility to

allocate fee credits in a manner it chooses. Fee credits granted shall be on a per unit or per square-foot basis for all development projects. In no event will a party be granted fee credits against the administrative portion of the fee.

Cash reimbursements will be due to developers who have advance-funded a facility (or facilities) in excess of their proportionate share for such a facility. In this instance, developers would first obtain fee credits, up to their allocation requirement for a facility, and then await reimbursement from fee revenue collections from other fee payers.

The use of accumulated fee revenues shall be used in the following priority order:

1. Critical projects as defined by the City.
2. Repayment of reimbursement to private developers for the construction of EGRFP projects.

To obtain reimbursements, developers must enter into a reimbursement agreement with the City. Reimbursements will be paid and/or credit balances established only after the City accepts the subject public facility improvements and the developer has complied with the Reimbursement Policies or its equivalent replacement document. It is important to note that reimbursements are an obligation of the EGRFP and not an obligation of the City General Fund or other operating funds.

#### **IMPACT FEE PROGRAM ADOPTION PROCESS**

Impact fee program adoption procedures are found in California Government Code Section 66016–66019. Adoption of this impact fee program requires the City Council to follow certain procedures, including holding a public hearing with at least 30 days' notice for the hearing (Gov. Code § 66016.5(a)(7)). The City shall notify any member of the public that requests notice of intent to begin an impact fee nexus study of the date of the hearing.

Mailed notice 14 days prior to the public hearing is required for those individuals who request such notification. Data, such as this impact fee report and referenced material, must be made available at least 10 days prior to the public hearing. Any new or increased fees would be effective 60 days after adoption.

#### **PROGRAMMING REVENUES AND PROJECTS WITH THE CAPITAL IMPROVEMENT PLAN (CIP)**

The City will update its CIP to identify specific projects and program fee revenues to those projects. Use of the CIP in this manner documents a reasonable relationship between new development and the use of fee revenues.

For the planning period of the CIP, the City shall allocate all existing fund balances and projected fee revenue to facilities projects. The City shall plan its CIP expenditures at least five years in advance and show where all collected development impact fee revenues will be spent. The City can hold funds in a project account for longer than five years, if necessary, to collect sufficient funds to complete a given project. See Compliance Requirements below for the specific CIP update requirements stated in Government Code Section 62000.

**FUNDS NEEDED TO COMPLEMENT IMPACT FEE PROGRAM**

In adopting the fees presented in this report, additional funds will need to be identified to fund the share of costs not related to new development. **Tables ES-4** and **3.1** identify the facilities studied in this report and the projected impact fee revenues. The Percent Third-Party Funding column identifies the additional funding that the City needs to obtain for the facilities shown to cover, among other things, the City's share related to existing development.

**COMPLIANCE REQUIREMENTS**

The California Mitigation Fee Act (Government Code Section 66000 et seq.) mandates procedures for administration of impact fee programs, including collection, accounting, refunds, updates, and reporting. The City must comply with the annual and five-year reporting requirements. For facilities to be funded with a combination of impact fees and other revenues, the City must identify the source and amount of the other revenues. The City must also identify when the other revenues are anticipated to be available to fund the project. The City's compliance obligations vis-à-vis the act include but are not limited to the following specific requirements:

**Collection of Fees.** Section 66007 provides that a local agency shall not require payment of fees by developers of residential projects prior to the date of final inspection or issuance of a certificate of occupancy, whichever comes first. In a residential development of more than one dwelling unit, the local agency may choose to collect fees either for individual units or for phases upon final inspection, or for the entire project upon final inspection of the first dwelling unit when it is completed. The local agency may require the payment of those fees or charges at an earlier time if:

- A. The local agency determines that the fees or charges will be collected for public improvements or facilities for which an account has been established and funds appropriated and for which the local agency has adopted a proposed construction schedule or plan prior to final inspection or issuance of the certificate of occupancy; or
- B. The fees are to reimburse the local agency for expenditures previously made. "Appropriated," as used in this section, means authorization by the governing body of the local agency for which the fee is collected to make expenditures and incur obligations for specific purposes.

**Earmarking of Fee Revenues.** Section 66006 mandates that the City deposit fees for the improvements in a separate capital facilities account or fund in a manner to avoid any commingling of the fees with other revenues and funds of the City, except for temporary investments. Fees must be expended solely for the purpose for which they were collected. Interest earned on the fee revenues must also be placed in the capital account and used for the same purpose. The Mitigation Impact Fee Act is not clear as to whether depositing fees "for the improvements" refers to a specific capital improvement or a class of improvements (e.g., fire or police facilities). The City intends to place all fee revenue into a single, exclusive account fund.

**Reporting.** Section 66006 requires that once each year, within 180 days of the close of the fiscal year, the City must make available to the public the following information for each account established to receive impact fee revenues:

1. The amount of the fee.
2. The beginning and ending balance of the account or fund.
3. The amount of the fees collected, and interest earned.
4. Identification of each public improvement on which fee revenues were expended and the amount of the expenditures on each improvement, including the percentage of the cost of the public improvement that was funded with fee revenues.
5. Identification of the approximate date by which the construction of a public improvement will commence, if the City determines sufficient funds have been collected for financing of an incomplete public improvement.
6. A description of each interfund transfer or loan made from the account or fund, including interest rates, repayment dates, and a description of the improvements on which the transfer or loan will be expended.
7. The amount of any refunds or allocations made pursuant to Section 66001, paragraphs (e) and (f).

The above information must be reviewed by the City Council at its next regularly scheduled public meeting, but not less than 15 days after the statements are made public.

**Findings and Refunds.** Section 66001 requires that, for the fifth fiscal year following the first deposit of any impact fee revenue into an account or fund as required by Section 66006, and every five years thereafter, the City must make all the following findings for any fee revenues that remain unexpended, whether committed or uncommitted:

1. Identify the purpose to which the fee will be put.
2. Demonstrate the reasonable relationship between the fee and the purpose for which it is charged.
3. Identify all sources and amounts of funding anticipated to complete financing of incomplete improvements for which the impact fees are to be used.
4. Designate the approximate dates on which the funding necessary to complete financing of those improvements will be deposited into the appropriate account of fund.

**Updating of the Impact Fee Nexus Study.** Per California Government Code Section 66016.5(a)(8), impact fee nexus studies shall be updated at least every eight years, from the period beginning on January 1, 2022.

The City may use the impact fee nexus study template developed by the California Department of Housing and Community Development pursuant to Section 50466.5 of the Health and Safety Code to update the nexus study.

**Annual Update of Capital Improvement Plan.** Section 66002 provides that if the City adopts a CIP to identify the use of impact fees, that program must be adopted and annually updated by a

resolution of the governing body at a noticed public hearing. The City maintains two CIPs: one includes the programming of all projects funded or partly funded by impact fee revenues (which is contained in this Nexus Study in Appendix A and the EGRFP Cost Estimate by Mark-Thomas dated Feb. 10, 2022) and the other is the 5-year CIP that is adopted annually during the City budget process.

## APPENDIX A: EGRFP TRANSPORTATION PROJECTS

Note: For additional details on these estimates, see the report *Elk Grove Roadway Fee Program: Unit Costs and Cost Estimate Assumptions* by Mark Thomas, dated June 28, 2022, on file with the City.

### EGRFP ROADWAYS

ID	Roadway	Limits/Location	Description	Cost	Nexus (see Nexus Key)
R-1.0	Big Horn Boulevard	Whitelock Parkway to Bilby Road	New Segment - Construct 2 Center Lanes and Median	\$225,700	1
R-2.0		Bilby Road to Shed C Culvert	New Segment - Construct 2 Center Lanes and Median	\$77,000	1
R-3.0		Shed C Culvert to Collector 2	New Segment - Construct 2 Center Lanes and Median	\$0 <sup>1</sup>	1
R-4.0		Collector 2 to Kammerer Road	New Segment - Construct 2 Center Lanes and Median	\$717,370	1
R-5.0	Big Timber	Elk Grove Boulevard to Civic Center Drive	Extend Street (gap segment) at 2 Lanes	\$674,280	2
R-6.0	Bilby Road	Bruceville Road to Big Horn Boulevard	New Segment - Construct 2 Center Lanes and Median	\$660,400	1
R-7.0		Big Horn Boulevard to Road B	New Segment - Construct 2 Center Lanes and Median	\$221,940	1
R-8.0		Road B to Shed C Culvert	New Segment - Construct 2 Center Lanes and Median	\$0	1
R-9.0		Shed C Culvert to Collector 1	New Segment - Construct 2 Center Lanes and Median	\$2,374,370	1
R-10.0		Collector 1 to Lotz Parkway	New Segment - Construct 2 Center Lanes and Median	\$1,842,080	1
R-11.0		Lotz Parkway to Promenade Parkway	New Segment - Construct 2 Center Lanes and Median	\$365,260	1
R-12.0	Bond Road	E. Stockton Boulevard to Elk Grove-Florin Road	Construct Raised Median	\$397,660	1
R-13.0	Bradshaw Road	Bond Road to Stone Springs Drive/Kapalua Ln	Existing Segment - Construct 2 Center Lanes and Median	\$541,749	3
R-14.0		Stone Springs Drive/Kapalua Lane to Elk Grove Boulevard	Existing Segment - Construct 2 Center Lanes and Median	\$3,223,356	3
R-15.0		Elk Grove Boulevard to Ridgerock Drive	Existing Segment - Construct 2 Center Lanes and Median	\$2,037,781	3
R-16.0		Ridgerock Drive to Grant Line Road	Existing Segment - Construct 2 Center Lanes and Median	\$812,046	3

<sup>1</sup> Segments listed as having "\$0" cost are included as a placeholder to indicate continuity whereas the segment, in reality, has no actual length.

**EGRFP Roadways (continued)**

<b>ID</b>	<b>Roadway</b>	<b>Limits/Location</b>	<b>Description</b>	<b>Cost</b>	<b>Nexus (see Nexus Key)</b>
R-17.0	Bruceville Road	Sheldon Road to Big Horn Boulevard	Existing Segment - Widen from 4 to 6 Lanes	\$6,194,020	1
R-18.0		Big Horn Boulevard to Laguna Boulevard	Restripe with project to north	\$415,490	1
R-19.0		Whitelock Parkway to Poppy Ridge Road	Existing Segment - Construct 2 Center Lanes and Median; Median is 36 feet wide; relocate 69kV line in median; restripe section in front of apartments and shopping centers at north and south ends	\$51,510	1
R-20.0		Poppy Ridge Road to Machado Ranch Drive	Existing Segment - Construct 2 Center Lanes and Median; Median is 36 feet wide; relocate 69kV line in median; restripe section in front of apartments and shopping centers at north and south ends	\$715,151	1
R-21.0		Machado Ranch Drive to Boa Nova Drive	Existing Segment - Construct 2 Center Lanes and Median; Median is 36 feet wide; relocate 69kV line in median; restripe section in front of apartments and shopping centers at north and south ends	\$474,100	1
R-22.0		Boa Nova Drive to Bilby Road	Existing Segment - Construct 2 Center Lanes and Median; Median is 36 feet wide; relocate 69kV line in median; restripe section in front of apartments and shopping centers at north and south ends	\$474,690	1
R-23.0		Bilby Road to Shed C Culvert	Existing Segment - Construct 2 Center Lanes and Median	\$3,408,054	1
R-24.0		Shed C Culvert to New Kammerer	Construct new 2 Center Lanes and Median	\$0	1
R-25.0		Calvine Road	Cliffcrest Drive to Elk Grove-Florin Road	Existing Segment - Widen Roadway from 4 to 6 Lanes	\$2,834,715
R-26.0	Elk Grove-Florin Road to Waterman Road		Existing Segment - Widen Roadway from 4 to 6 Lanes	\$2,806,439	1
R-27.0	Collector 1	Kammerer to Bilby	2-lane commercial collector	\$822,752	1
R-28.0	Collector 2	Kammerer Road to Big Horn	2-lane commercial collector	\$1,916,680	1
R-29.0		Big Horn Boulevard to Bilby	2-lane commercial collector	\$2,982,989	1

**EGRFP Roadways (continued)**

<b>ID</b>	<b>Roadway</b>	<b>Limits/Location</b>	<b>Description</b>	<b>Cost</b>	<b>Nexus (see Nexus Key)</b>
R-30.0	Collector 3	Bilby to Lotz Parkway	2-lane commercial collector	\$2,341,690	1
R-31.0	East Park Drive	Lockford Way to Waterman Road	Extend Street (gap segment) 2 lanes residential	\$405,885	1
R-32.0	Elevate Road A	Elk Grove Blvd to Civic Center Drive	New Street	\$1,601,620	2
R-33.1	Elevate Road B	Big Horn Boulevard to Big Timber	New Street	\$1,565,200	2
R-33.2		Big Timber to Eastern Lot Line	New Street	\$552,060	2
R-34.0	Elk Grove Boulevard	E. Stockton Boulevard to Elk Grove-Florin Road	Construct Raised Median	1,163,910	1
R-35.0		Bradshaw Road to Grant Line Road	Existing Segment – Reconstruct with shoulders and bike lane per section and realign for new Grant Line Intersection	\$483,733	1
R-36.0	Elk Grove Florin Road	Bond Road to Elk Grove Boulevard	Construct Raised Median	\$1,557,230	4
R-37.0	Grant Line Road	SR 99 NB Ramps to UPRR	Existing Segment - Widen from 6 to 8 Lanes	\$645,140	4
R-38.1		UPRR to Waterman (Phase 1)	Complete north side frontage improvement per notes (Phase 1 of 8-Lane Project)	\$853,968	4
R-38.2		UPRR to Waterman (Phase 2)	Existing Segment – Construct Outside Lanes. Widen Roadway from 4 to 6 Lanes (Phase 2 of 8-Lane Project)	\$367,410	4
R-38.3		UPRR to Waterman (Phase 3)	Existing Segment – Construct Outside Lanes. Widen Roadway from 6 to 8 Lanes (Phase 3 of 8-Lane Project)	\$227,860	4
R-39.1		Waterman Road to Bradshaw Road (Phase 1)	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$7,344,180	4
R-39.2		Waterman Road to Bradshaw Road (Phase 2)	Existing Segment - Widen Roadway from 4 to 6 Lanes	\$11,203,490	4
R-40.0		Bradshaw Road to Elk Grove Boulevard	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$10,402,724	4



**EGRFP Roadways (continued)**

<b>ID</b>	<b>Roadway</b>	<b>Limits/Location</b>	<b>Description</b>	<b>Cost</b>	<b>Nexus (see Nexus Key)</b>
R-41.1	Kammerer Road	I-5 to Franklin Boulevard (Phase 1)	New Segment - Construct 2-Lane Roadway (4-Lane Right-of-Way)	\$33,632,439	4
R-41.2		I-5 to Franklin Boulevard (Phase 2)	New Segment - Construct 4-Lane Roadway	\$5,849,550	4
R-42.1		Willard Parkway to Bruceville Road (Phase 1)	New Segment - Construct 2-Lane Roadway (4-Lane Right-of-Way)	\$23,714,035	4
R-42.2		Willard Parkway to Bruceville Road (Phase 2)	New Segment - Construct 4-Lane Roadway	\$12,574,050	4
R-43.1		Bruceville Road to Big Horn Boulevard (Phase 1)	Existing Segment – Construct 2 Center Lanes and Median. Widen Roadway from 2 to 6 Lanes (Phase 1 of 6-Lane Project)	\$6,877,378	4
R-43.2		Bruceville Road to Big Horn Boulevard (Phase 2)	Existing Segment – Construct Middle Lanes for a total of 4 Lanes (Phase 2 of 6-Lane Project)	\$1,519,750	4
R-43.3		Bruceville Road to Big Horn Boulevard (Phase 3)	Existing Segment – Construct Outside Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)	\$6,935,980	4
R-44.1		Big Horn Boulevard to Lent Ranch Parkway (Phase 1)	Existing Segment – Construct 2 Center Lanes and Median. Widen Roadway from 2 to 6 Lanes (Phase 1 of 6-Lane Project)	\$5,899,440	4
R-44.2		Big Horn Boulevard to Lent Ranch Parkway (Phase 2)	Existing Segment – Construct Middle Lanes for a total of 4 Lanes (Phase 2 of 6-Lane Project)	\$1,661,410	4
R-44.3		Big Horn Boulevard to Lent Ranch Parkway (Phase 3)	Existing Segment – Construct Outside Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)	\$8,846,050	4
R-45.0		Promenade Parkway to SR 99 SB Ramps	Existing Segment - Widen from 6 to 8 Lanes	\$3,360,567	4

**EGRFP Roadways (continued)**

<b>ID</b>	<b>Roadway</b>	<b>Limits/Location</b>	<b>Description</b>	<b>Cost</b>	<b>Nexus (see Nexus Key)</b>
R-46.0	Laguna Grove Drive	Existing Terminus to Laguna Springs	2-lane commercial collector	\$1,028,862	1
R-47.1	Lotz Parkway	Whitelock Parkway to Promenade Parkway/Poppy Ridge Road (Phase 1)	New Segment - Construct 2 Center Lanes and Median. Widen Roadway from 2 to 6 Lanes (Phase 1 of 6-Lane Project)	\$1,248,009	1
R-47.2		Whitelock Parkway to Promenade Parkway/Poppy Ridge Road (Phase 2)	New Segment - Construct Middle Lanes for a total of 4 Lanes (Phase 2 of 6-Lane Project)	\$473,270	1
R-47.3		Whitelock Parkway to Promenade Parkway/Poppy Ridge Road (Phase 3)	New Segment - Construct Outside Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)	\$2,446,560	1
R-48.0		Promenade Parkway to Road A/Kyler Road	New Segment - Construct 2 Center Lanes and Median	\$1,530,920	1
R-49.0		Road A/Kyler Road to Shed C Culvert	New Segment - Construct 2 Center Lanes and Median	\$0	1
R-50.0		Shed C Culvert to Bilby Road	New Segment - Construct 2 Center Lanes and Median	\$119,680	1
R-51.0		Bilby Road to Collector 3	New Segment - Construct 2 Center Lanes and Median	\$1,190,770	1
R-52.0		Collector 3 to Kammerer	New Segment - Construct 2 Center Lanes and Median	\$269,880	1
R-53.0		Monetta Drive	Existing terminus to Longleaf Drive	Extend Street (gap segment) 2 lane commercial	\$1,236,001
R-54.0	Parsons Landing	Two Harbors Drive to Apple Mill Road	Extend Street (gap segment) 2 lane residential	\$268,694	1
R-55.0	Promenade Parkway	Lotz Parkway/Poppy Ridge Road to SMUD Substation	Existing Segment – Construct 4 lanes with Median	\$4,111,434	1
R-56.0	Railroad Street	Existing terminus to Dino Drive	Extend Street (gap segment) 2 lane commercial	\$2,792,860	2
R-57.0	Waterman Road	Elk Grove Boulevard to Parsons Landing Street	Existing Segment – Complete 4-Lane Project (Frontage Improvement and Striping)	\$85,260	1

**EGRFP Roadways (continued)**

ID	Roadway	Limits/Location	Description	Cost	Nexus (see Nexus Key)
R-58.0	Waterman Road	Parsons Landing Street to Dino Drive/Mainline	Existing Segment - Construct 2 Center Lanes and Median	\$155,840	1
R-59.0		Dino Drive/Mainline to Kent Street	Existing Segment – Reconstruct as 2 lanes with median	\$895,040	1
R-60.1		Kent Street to Brinkman Court	Existing Segment – Reconstruct as 2 lanes with median	\$318,110	1
R-60.2		Brinkman Court to Mosher Road	Existing Segment – Reconstruct as 2 lanes with median	\$1,741,793	1
R-61.0		Mosher Road to Waterman Court	Existing Segment – Reconstruct as 2 lanes with median	\$1,366,630	1
R-62.0		Bond Road to South End of Cemetery	Existing Segment – Reconstruct as 2 lanes with median	\$5,335,182	1
R-63.0		South End of Cemetery to Rancho Drive	Existing Segment – Reconstruct as 2 lanes with median	\$1,242,917	1
R-64.0		Rancho Drive to Cruz Court	Existing Segment – Reconstruct as 2 lanes with median	\$110,867	1
R-65.0		500 feet south of Brown Road to Calvine Road	Improve to 2 lanes (gap segment)	\$1,277,800	1
R-66.0		Willard Parkway	Epoch Drive to Kammerer Road	Construct 2 center lanes and median	\$1,267,290
R-67.0	Mosher Road Extension (A Street)	Grant Line Road to B Street	Construct 2 Lanes and Center Turn-lane	\$2,880,870	1
R-68.0	Waterman Road Extension (B Street)	Grant Line Road to A Street	Construct 2 Center Lanes and Median	\$4,512,260	1
R-69.0	A Street	B Street to E Street	Construct 2 Center Lanes and Median	\$2,098,610	1
R-70.0	Bond Road	Bradshaw Road to Bader Road	Existing Segment – Reconstruct divided 2 Lane facility	\$1,404,393	1
R-71.0		Bader Road to Grant Line Road	Existing Segment – Reconstruct divided 2 Lane facility	\$2,697,988	1
R-72.0	Bradshaw Road	Calvine Road to Rural Elk Grove Area Boundary (North)	Existing Segment - Widen from 2 to 4 Lanes with Median	\$4,883,440	1
R-73.0		Rural Elk Grove Area Boundary (North) to Middle School	Existing Segment - Widen from 2 to 4 Lanes with Median	\$1,200,915	1

**EGRFP Roadways (continued)**

<b>ID</b>	<b>Roadway</b>	<b>Limits/Location</b>	<b>Description</b>	<b>Cost</b>	<b>Nexus (see Nexus Key)</b>
R-74.0	Bradshaw Road	Middle School to Bond Road	Existing Segment - Widen from 2 to 4 Lanes with Median	\$1,166,710	1
R-75.1	Calvine Road	Bradshaw Road to Vineyard Road	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$2,384,050	7
R-75.2		Vineyard Road to Grant Line Road	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$8,356,950	7
R-76.0	Elk Grove Florin Road	Sheldon Road to Animal Care Center	Shoulder Improvements	\$938,320	14
R-77.0		Campbell Road to Bond Road	Shoulder Improvements	\$0	14
R-78.0	Grant Line Road	Elk Grove Boulevard to Equestrian Drive	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$4,892,110	15
R-79.0		Equestrian Drive to Bond Road	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$1,591,180	4
R-80.0		Bond Road to Wilton Road	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$3,046,810	4
R-81.0		Wilton Road to Aleilani Lane	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$0	4
R-82.0	Grant Line Road	Aleilani Lane to Sheldon Road	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$426,290	4
R-83.0		Sheldon Road to Graybill Lane	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$2,270,600	4
R-84.0		Graybill Lane to Calvine Road	Existing Segment - Widen Roadway from 2 to 4 Lanes	\$4,067,860	15
R-85.0	Sheldon Road	Elk Grove Florin to Waterman Road	Shoulder improvements and add 2-way left turn lane	\$4,057,760	14
R-86.0		Waterman Road to Grant Line Road	Shoulder Improvements	\$14,516,147	14
R-87.0	Waterman Road	Sheldon Road to 500 ft south of Brown Road	Shoulder Improvements	\$628,720	14
<b>Total Roadways:</b>				<b>\$287,389,983</b>	

**EGRFP HIGHWAY/URBAN INTERCHANGES**

<b>ID</b>	<b>Roadway</b>	<b>Limits/Location</b>	<b>Description</b>	<b>Cost</b>	<b>Nexus (see Nexus Key)</b>
H-1.0	SR 99	SR 99 / Whitelock Parkway Interchange	Construct 4-Lane Diverging Diamond Interchange	\$94,700,000	City of Elk Grove General Plan (Policy MOB-1-3, MOB-7-5). The interchange was identified in the Laguna Ridge Specific Plan (LRSP) as a recommended improvement (LRSP FEIR, June 2004). In 2008, an addendum to the General Plan EIR amended the roadway sizing diagram to add the interchange and Policy CI-11-Action 2 was added. The interchange is mitigation for Southeast Policy Area (SEPA), Mitigation Measure 5.13.5a of the SEPA Strategic Plan FEIR (June 2014).
H-2.0	Hood Franklin Road	I-5 / Hood Franklin Road Interchange	Modify Interchange - Maintain L-9 Configuration with Ramp-Terminal Intersection	\$16,800,000	10
H-3.0	Elk Grove Boulevard	I-5 / Elk Grove Boulevard	Extend southbound off-ramp storage	\$400,000	11
H-4.0	Kammerer Road	Kammerer/Big Horn	Design and ROW preservation only	\$8,400,000	10
H-5.0		Kammerer/Bruceville	Design and ROW preservation only	\$7,900,000	10
H-6.0		Kammerer/Willard Parkway	Design and ROW preservation only	\$6,100,000	10

**Total Urban Interchanges Cost: \$134,300,000**

## EGRFP INTERSECTIONS

ID	Roadway	Limits/Location	Description	Cost	Nexus (see Nexus Key)
I-1.0	Big Horn	Big Horn Boulevard/Poppy Ridge Road	Install Traffic Signal 2X4	\$3,170,500	1
I-2.0		Big Horn Boulevard/Spoonwood/Machado Ranch Dr	Install Traffic Signal 2X4	\$4,121,500	1
I-3.0		Big Horn Boulevard/Elifa Road/Road A	Install Traffic Signal 2X4	\$4,121,500	1
I-4.0		Big Horn Boulevard/Collector 2	Install Traffic Signal 2X4	\$4,175,941	1
I-5.0		Big Horn Boulevard/Red Elk Drive	Install Traffic Signal 2X4	\$861,000	1
I-6.1	Bilby Road	Bilby Road/Bruceville Road	Signal Modification (Protected Phasing)	\$2,152,500	1
I-6.2		Bilby Road/Bruceville Road (Phase2)	Signal Modification 4X4	\$2,682,400	1
I-7.0		Bilby Road/Tillia Road	Install Traffic Signal 2X4	\$3,001,300	1
I-8.0		Bilby Road/Big Horn Boulevard	Install Traffic Signal 4X4	\$3,673,500	1
I-9.0		Bilby Road/Road B (West)	Install Traffic Signal 2X4	\$2,771,200	1
I-10.0		Bilby Road/Collector 1	Install Traffic Signal 2X4	\$3,414,300	1
I-11.0		Bilby Road/Road B (East)	Install Traffic Signal 2X4	\$3,025,100	1
I-12.0	Bond Road	Bilby Road/Lotz Parkway	Install Traffic Signal 4X4	\$5,326,300	1
I-13.0		Bond Road/Grant Line Road	Signal Modification 2X4	\$3,224,200	4
I-14.0	Bradshaw Road	Bradshaw Road/Stone Springs	Install Traffic Signal 2x4	\$2,742,500	3
I-15.0		Bradshaw Road/Rockridge Dr	Install Traffic Signal 2x4	\$2,090,500	3
I-16.0	Bruceville Road	Bruceville Road/Elifa Road/Boa Nova Drive	Install Traffic Signal 2x4	\$2,837,100	1
I-17.0		Bruceville Road/Quail Run Lane/Poppy Ridge Road	Modify to Expanded 2x4 Intersection	\$2,444,600	1
I-18.0		Bruceville Road/Machado Dairy Drive	Modify to Expanded 2x4 Intersection	\$3,304,900	1
I-19.0	Calvine Road	Calvine Road/Excelsior Road	Install Traffic Signal 4X2	\$3,847,000	7
I-20.0	East Stockton Boulevard	East Stockton Boulevard/Union Park Way	Install Traffic Signal 2x2	\$790,800	1
I-21.0		East Stockton Boulevard/Elkmont Way	Install Traffic Signal 2x2	\$692,600	1

**EGRFP Intersections (continued)**

ID	Roadway	Limits/Location	Description	Cost	Nexus (see Nexus Key)
I-22.0	Elk Grove Boulevard	Elk Grove Boulevard/Grant Line Road	Install Traffic Signal 2X4	\$3,316,300	4
I-23.0		Elk Grove Boulevard/Bradshaw Road	Install Traffic Signal 2X4	\$5,283,600	1
I-24.0		Elk Grove Boulevard/Kent Street	Install Traffic Signal 2X2	\$2,472,300	1
I-25.0		Elk Grove Boulevard/Big Timber	Install Traffic Signal 2X6	\$2,049,700	1
I-26.0		Elk Grove Boulevard/SR 99 SB On-Ramp	Construct dedicated right-turn lane from eastbound Elk Grove Boulevard to southbound SR 99 on-ramp	\$663,000	1
I-27.0	Grant Line Road	Grant Line Road/Calvine Road	Modify signal to 4x4	\$2,811,600	6
I-28.0		Grant Line Road/Graybill Lane	Install Traffic Signal 2X4	\$5,838,200	6
I-29.0		Grant Line Road/Sheldon Road	Modify signal 2x4	\$5,822,400	4
I-30.0		Grant Line Road/Aleilani Lane	Install Traffic Signal 2X4	\$4,478,400	4.
I-31.0		Grant Line Road/Wilton Road	Roundabout or modify signal to 2x4	\$4,600,500	4
I-32.0		Grant Line Road/Bradshaw Road	Install Traffic Signal 4X4	\$3,783,000	6
I-33.1		Mosher Road/Grant Line Road	Install Traffic Signal 2X4	\$2,294,500	6
I-33.2		Mosher Road/Grant Line Road	Install Traffic Signal 2X8	\$1,486,300	6
I-34.1		Grant Line/Waterman Road	Restripe Existing 4X4	\$1,733,000	6
I-34.2		Grant Line/Waterman Road	Expand Intersection to 4X6	\$440,000	6
I-34.3		Grant Line/Waterman Road	Widen Intersection to 4X8	\$1,545,500	6
I-35.1	Kammerer Road	Kammerer Road/Lotz Parkway	Install Side-Street Stop 2X2	\$3,244,500	6
I-35.2		Kammerer Road/Lotz Parkway	Install Traffic Signal 4X4	\$2,385,900	6
I-35.3		Kammerer Road/Lotz Parkway	Widen Intersection to 4X8	\$4,913,800	6
I-36.1		Kammerer Rod/Collector 1	Install Side-Street Stop 2X2	\$3,144,400	6
I-36.2		Kammerer Rod/Collector 1	Install Traffic Signal 2X4	\$756,600	6
I-36.3		Kammerer Rod/Collector 1	Widen Intersection to 2X8	\$3,255,300	6
I-37.1		Kammerer Road/Big Horn Boulevard	Install Side-Street Stop 2X2	\$2,901,700	6
I-37.2		Kammerer Road/Big Horn Boulevard	Install Traffic Signal 4X4	\$2,397,900	6
I-37.3		Kammerer Road/Big Horn Boulevard	Widen Intersection to 4X6	\$3,437,100	6
I-38.1		Kammerer Road/Collector 2	Install Traffic Signal 2X4	\$3,261,100	6
I-38.2	Kammerer Road/Collector 2	Widen Intersection 2X4	\$786,600	6	

**EGRFP Intersections (continued)**

<b>ID</b>	<b>Roadway</b>	<b>Limits/Location</b>	<b>Description</b>	<b>Cost</b>	<b>Nexus (see Nexus Key)</b>
I-38.3	Kammerer Road	Kammerer Road/Collector 2	Install Traffic Signal 2X6	\$2,407,600	6
I-39.1		Kammerer Road/Bruceville Road	Install All-Way Stop 2X2	\$2,745,100	6
I-39.2		Kammerer Road/Bruceville Road	Install Traffic Signal 4X4	\$2,221,700	6
I-39.3		Kammerer Road/Bruceville Road	Widen Intersection 4X6	\$2,816,200	6
I-40.0		Kammerer Road/Willard Parkway	Install Traffic Signal 4X4	\$5,732,100	6
I-41.0		Kammerer Road/Franklin Boulevard	Install Traffic Signal 2x4	\$5,314,500	6
I-42.0	Laguna Boulevard	Laguna Boulevard/Laguna Springs Drive	Install Westbound-to-Northbound Right-Turn Lane	\$2,555,300	1
I-43.0		Laguna Boulevard/SR 99 Southbound Off-Ramp	Install free right-turn lane from SR 99 southbound ramps to westbound Laguna Boulevard	\$950,000	1
I-44.0	Lotz Parkway	Lotz Parkway/Road A/Kyler Road	Install Traffic Signal 2x4	\$4,106,400	1
I-45.0		Lotz Parkway/Serra Estrela Drive	Install Traffic Signal 2x4	\$2,448,400	1
I-46.0		Lotz Parkway/Ponta Delgada Drive	Install Traffic Signal 2x4	\$3,029,500	1
I-47.0	Mosher Road	Mosher Road/Waterman	Realign intersection to tangent and install traffic signal 2x4	\$3,442,800	1
I-48.0		Mosher Road/Rhone River	Install Traffic Signal 2X2	\$2,526,700	1
I-49.0	Promenade Parkway	Promenade Parkway/Lotz Parkway/Poppy Ridge Road	Install Traffic Signal 4X6	\$6,275,600	1
I-50.0	Power Inn Road	Power Inn Road/Geneva Pointe Drive	Install Traffic Signal 2X4	\$971,200	1
I-51.0	Waterman Road	Waterman Road/Rancho Drove	Install Traffic Signal 2x4	\$4,284,800	1
I-52.0		Waterman Road/Parsons Landing	Install Traffic Signal 2x4	\$1,229,500	1
I-53.0		Waterman Road/Dino/Mainline	Install Traffic Signal 2x4	\$1,479,300	1
I-54.0		Waterman Road/Kent Street	Install Traffic Signal 2x4	\$3,150,000	1
I-55.0		Waterman Road/Silverado Drive	Install traffic circle 2x2	\$3,483,400	1
I-56.0	Whitelock Parkway	Whitelock Parkway/Lotz Parkway	Install Traffic Signal 4X6	\$3,306,700	1
I-57.0		Whitelock Parkway/Cape Verde Drive	Install Traffic Signal 2x4	\$1,149,800	1
I-58.0		Whitelock Parkway/Lousada Drive	Install Traffic Signal 2x4	\$1,143,400	1



**EGRFP Intersections (continued)**

ID	Roadway	Limits/Location	Description	Cost	Nexus (see Nexus Key)
I-59.0	A Street	A Street/E Street	Construct 4X2 Intersection	\$5,387,300	1
I-60.0	A Street	A Street/B Street	Construct 4X4 Intersection	\$5,067,500	1
I-61.0	Carinata Drive	Carinata Drive/Whitelock Parkway	Install Traffic Signal 4X2	\$518,800	1
I-62.0	Various Roadways	Various Signals	Signal Modification (Signal Timing, Signal Phasing, Turn Lane Storage, etc.)	\$0	8

**Total Intersection Cost: \$221,318,041**

**EGRFP BRIDGES AND CULVERTS**

ID	Roadway	Limits/Location	Description	Cost	Nexus (see Nexus Key)
B-1.0	Lotz Parkway	In SEPA, Shed C	112' x 84' Box Culvert	\$4,330,870	2
B-2.0	Road B	In SEPA, Road B at Shed C	78' x 64' Box Culvert	\$2,621,320	2
B-3.0	Bilby Road	In SEPA, Bilby at Shed C	Two 86' x 44'-3 3/4" Slab on Pile Bridges	\$4,725,318	2
B-4.0	Big Horn Boulevard	In SEPA, Big Horn at Shed C	Two 86' x 44'-3 3/4" Slab on Pile Bridges	\$4,725,318	2
B-5.0	Bruceville Road	In SEPA, Bruceville Road at Shed C	31' x 124' Box Culvert	\$3,365,568	2
B-6.0	LRSP Outfall	In SEPA, Crossing the LRSP outfall	23' x 52' Box Culvert	\$1,372,290	2
B-7.0	Wyland Drive	In East Elk Grove, Wyland Drive crossing Elk Grove Creek	50' x 52' Box Culvert	\$1,711,540	2
B-8.0	Elk Grove Creek	In Elk Grove Triangle, Culvert over Elk Grove Creek tributary	50' x 52' Box Culvert	\$1,026,740	2

**Total Bridges and Culverts Cost \$23,878,964**

**EGRFP Railroad Crossings**

ID	Roadway	Limits/Location	Description	Cost	Nexus (see Nexus Key)
G-1.0	Bilby Road	Bilby Road / UPRR	Eliminate Crossing	\$611,000	9
G-2.0	Bond Road	Bond Road / UPRR	4-Lane Grade Separation	\$94,239,000	9
G-3.0	Calvine Road	Calvine Road / UPRR	6-Lane Grade Separation	\$64,589,000	9
G-4.0	Elk Grove Florin Road	Elk Grove Florin Road / UPRR	4-Lane Grade Separation	\$104,689,000	9
G-5.0	Grant Line Road	Grant Line Road / UPRR	Widen overcrossing from 4 lanes to 8 lanes	\$12,678,000	9
G-6.0	Sheldon Road	Sheldon Road / UPRR	4-Lane Grade Separation	\$58,406,000	9
G-7.0	Kammerer Road	Franklin Boulevard to Willard Parkway UPRR	UPRR crossing from intersection to intersection, 2 lanes with ROW for future restriping to 4 lanes	\$28,379,000	9

**Total Railroad Crossings Cost    \$363,591,000**

**EGRFP AUXILIARY LANES**

ID	Roadway	Limits/Location	Description	Cost	Nexus (see Nexus Key)
A-1.0	SR 99 (A-1.0, A-2.0, A-6.0, & A-7.0 are included in Whitelock Pkwy Interchange. A-3.0, A-4.0, & A-5.0 are part of a grant received by the City)	NB SR 99 - Grant Line Road to Whitelock Parkway	Construct Interchange-to-Interchange Auxiliary Lane	-	12
A-2.0		NB SR 99 - Whitelock Parkway to Elk Grove Boulevard	Construct Interchange-to-Interchange Auxiliary Lane	-	12
A-3.0		NB SR 99 - Elk Grove Boulevard to Bond Road	Construct Interchange-to-Interchange Auxiliary Lane	-	12
A-4.0		NB SR 99 - Bond Road to Sheldon Road	Construct Interchange-to-Interchange Auxiliary Lane	-	12

**EGRFP Auxiliary Lanes (continued)**

<b>ID</b>	<b>Roadway</b>	<b>Limits/Location</b>	<b>Description</b>	<b>Cost</b>	<b>Nexus (see Nexus Key)</b>
A-5.0		NB SR 99 - Sheldon Road to Calvin Road	Construct Interchange-to-Interchange Auxiliary Lane	-	12
A-6.0		SB SR 99 - Elk Grove Boulevard to Whitelock Parkway	Construct Interchange-to-Interchange Auxiliary Lane	-	12
A-7.0		SB SR 99 - Whitelock Parkway to Grant Line Road	Construct Interchange-to-Interchange Auxiliary Lane	\$2,361,000	12
A-8.0	I-5	NB I-5 – Hood Franklin Road to Elk Grove Boulevard	Construct Interchange-to-Interchange Auxiliary Lane	\$6,678,500	13
A-9.0		SB I-5 – Elk Grove Boulevard to Hood Franklin Road	Construct Interchange-to-Interchange Auxiliary Lane	\$7,723,000	13

**Total Auxiliary Lanes Cost: \$16,762,500**

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## **NEXUS KEY**

1. City of Elk Grove General Plan (Policy MOB-1-3).
2. City of Elk Grove General Plan (Policy MOB-1-1, Policy MOB-1-2, Policy MOB-1-3, Policy MOB-3-1).
3. City of Elk Grove General Plan (Policy MOB-1-3). Shared facility with Sacramento County.
4. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-7-6). The facility is part of the Capital Southeast Connector.
5. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-3-1, Policy MOB-6-1, Policy MOB-7-6).
6. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-3-1, Policy MOB-7-6). The facility is part of the Capital Southeast Connector and is included in the Sacramento County Traffic Development Fee SCTDF)
7. City of Elk Grove General Plan (Policy MOB-1-3). Shared facility with Sacramento County and is included in the SCTDF.
8. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-7-8).
9. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-3-1, Policy MOB-7-6).
10. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-7-5, Policy MOB-7-6). The facility is part of the Capital Southeast Connector.
11. City of Elk Grove General Plan (Policy MOB-1-3, MOB-7-5).
12. City of Elk Grove General Plan (Policy MOB-1-3, MOB Policy-7-5). Caltrans District 3 State Route 99. Transportation Concept Report (July 2017)
13. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-7-5) Caltrans District 3 I-5 Transportation Concept Report (July 2017).
14. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-3-1).
15. City of Elk Grove General Plan (Policy MOB-1-3, Policy MOB-7-6). The facility is part of the Capital Southeast Connector and is included in the SCTDF.

## APPENDIX B: UNIT COSTS FOR STREET IMPROVEMENTS

	ITEM DESCRIPTION	UNIT	2020 COST
<b>1</b>	<b>EARTHWORK</b>		
1.1	ROADWAY EXCAVATION	CY	\$30.00
1.2	IMPORT FILL (GRADE SEPARATIONS ONLY)	CY	\$40.00
<b>2</b>	<b>DRAINAGE</b>		
2.1	MODIFYING EXISTING STORM DRAINAGE	LF	\$100.00
2.2	NEW STORM DRAIN LATERALS AND INLETS	N/A	INCLUDED IN 'MINOR ITEMS'
2.3	DRAINAGE (AUX LANE COSTS ONLY)	LS	SEE AUX LANE DETAILED ESTIMATES
<b>3</b>	<b>PAVEMENT</b>		
3.1	ASPHALT CONCRETE	TON	\$90.00
3.2	AGGREGATE BASE	CY	\$60.00
3.3	SIDEWALK	SF	\$12.00
3.4	CURB AND GUTTER	LF	\$45.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00
3.6	TEXTURED PAVING (ROUNDBOUT COSTS ONLY)	LF	\$17.00
3.7.1	THERMOPLASTIC PAVEMENT MARKINGS	LF	\$5.00
3.7.2	THERMOPLASTIC TRAFFIC STRIPE	LF	\$1.00
<b>4</b>	<b>MISCELLANEOUS</b>		
4.1	TRAFFIC SIGNAL	LS	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATIONS	LS	\$250,000.00
4.3	TRAFFIC SIGNAL REMOVAL (ROUNDBOUT COSTS ONLY)	LS	\$125,000.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00
4.5	FIBER OPTIC CABLE	LF	\$56.00
4.6	NETWORK SYSTEM EQUIPMENT	EA	\$15,000
4.7	LANDSCAPING	SF	\$10.00
4.8	SIGNING AND STRIPING (ROUNDBOUT COSTS ONLY)	LS	\$50,000.00
4.9	OVERHEAD SIGNS (AUX LANE COSTS ONLY)	EA	\$250,000.00
4.1	MIDWEST GUARDRAIL SYSTEM (AUX LANE COSTS ONLY)	LF	\$38.00
4.11	FENCE (TYPE CL-6) (AUX LANE COSTS ONLY)	LF	\$23.00
4.12	CONCRETE BARRIER (TYPE 60) WITH TYPE CL-6 FENCE (AUX LANE COSTS)	LF	\$110.00
4.13	REMOVE FENCE (AUX LANE COSTS ONLY)	LF	\$20.00
4.14	REMOVE BARRIER (AUX LANE COSTS ONLY)	LF	\$50.00
4.15	EMBANKMENT EARTHWORK (AUX LANE COSTS ONLY)	CY	\$15.00
4.16	CONSTRUCTION STAGING (AUX LANE COSTS ONLY)	LS	SEE AUX LANE DETAILED ESTIMATES
<b>5</b>	<b>MINOR ITEMS</b>		
5.1	GREENFIELD MINOR ITEMS	%	10%
5.2	DEVELOPED AREA MINOR ITEMS	%	10%
<b>6</b>	<b>STRUCTURES</b>		
6.1	BRIDGES (Slab on Pile)	SF	\$275
6.2	BOX CULVERTS	SF	\$200
6.3	CULVERTS (INTERSECTION COSTS)	LF	\$500
6.4	RETAINING WALL (INTERSECTION COSTS)	SF	\$150
6.5	AT-GRADE RAILROAD CROSSING DECOMMISSION	LS	[Estimated per location, see Detailed Estimates]
6.6	GRADE SEPARATED RAILROAD CROSSING*	LS	[Estimated per location, see Detailed Estimates]
<b>7</b>	<b>CONTINGENCY</b>	%	20%
<b>8</b>	<b>ENGINEERING &amp; MANAGEMENT</b>		
8.1	ENGINEERING AND SURVEYING	%	15.0%
8.2	STAKING, PERMITTING, AND INSPECTION	%	10.0%
8.3	CALTRANS COORDINATION (ONLY ON APPLICABLE ESTIMATES)	%	3.0%
<b>9</b>	<b>RIGHT-OF-WAY &amp; EASEMENTS</b>		
9.1.1	GREENFIELD RIGHT-OF-WAY	SF	\$2.25
9.1.2	DEVELOPED AREA RIGHT-OF-WAY	SF	\$9.25
9.2.1	GREENFIELD EASEMENT	SF	\$2.25
9.2.2	DEVELOPED AREA EASEMENT	SF	\$9.25
9.3.1	GREENFIELD ACQUISITION SOFT COST (LENGTH OF PARCEL LINE)	LF	\$40
9.3.2	DEVELOPED AREA ACQUISITION SOFT COST (LENGTH OF PARCEL LINE)	LF	\$120
9.4	SEVERANCE DAMAGES	LS	[Estimated per location, see Detailed Estimates]
	R/W CONTINGENCY	%	10%
<b>10</b>	<b>UTILITY RELOCATION</b>	%	2% - 20%
<b>11</b>	<b>ENVIRONMENTAL MITIGATION</b>	%	3% - 5%
<b>LEGEND:</b> CY = Cubic Yard, LF = Linear Feet, SF = Square Feet, % = Percent of Total Project Cost INT = Intersection, EA = Each, LS = Lump Sum			

Source: Technical Memorandum June 28, 2022 Mark Thomas

# TECHNICAL MEMORANDUM

To: Christopher Jordan, City of Elk Grove

From: Daniel Blomquist, P.E., Mark Thomas

Date: June 28, 2022

RE: **Elk Grove Roadway Fee Program: Unit Costs and Cost Estimate Assumptions**

As part of the Elk Grove Roadway Fee Program (EGRFP) update, Mark Thomas was tasked by the City of Elk Grove (City) to provide estimated construction costs for transportation facility improvements within the City of Elk Grove Roadway Fee Program area. The purpose of these estimates is to provide order of magnitude costs for the transportation infrastructure necessary to serve new development consistent within the City's General Plan new development.

Estimates have been prepared for the following project types:

- New and widened Roadway Segments
- New and widened/modified Intersections
- New Freeway Auxiliary Lanes
- New Roadway Bridges and Box Culverts
- New Railroad Grade Crossings
- New Highway Interchanges

The estimates are based upon the Roadway Fee Program Project List, included with the EGRFP Update Draft Report by Fehr & Peers (F&P), dated December 2020, with roadway lane configurations and project descriptions provided by the development teams and the City. The locations and proposed lane configurations for each estimate are based upon traffic analysis and lane configuration recommendations provided by F&P.

This memorandum has been prepared to document the unit costs and assumptions for major construction items listed in the estimates.

## **ASSUMPTIONS AND PROJECT INFORMATION**

The following section includes project information and assumptions used to develop the cost estimate. Items include a key map, typical roadway and pavement sections, roadway classifications, and unit costs.

### **KEY MAP**

A Key Map has been prepared that identifies the locations and limits of the roadway fee program facilities, including intersections, roadway segments, freeway auxiliary lanes, bridges & culverts, railroad grade crossings and highway interchanges. (See Attachment A for the Key Map). Project numbers were determined by F&P as provided in the EGRFP Project Lists.

### **GREENFIELD AND DEVELOPED AREAS**

Construction costs for each of the roadway segments, intersections, bridges & culverts, and railroad grade crossings have been categorized as Greenfield (i.e., undeveloped agricultural or residential land) or Developed Areas. These

categories are based on neighboring roadway developments observed from available aerial photography. Section 5 (Minor Items) and Section 9 (Right-of-Way) costs are directly affected by these classifications.

### ROADWAY LANE CONFIGURATIONS AND TYPICAL SECTIONS

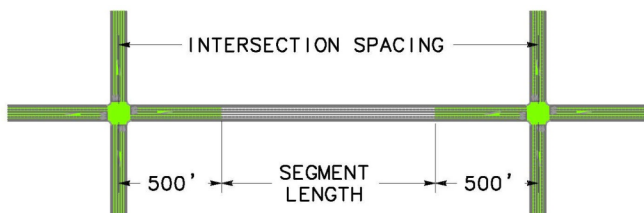
New and widened roadway segments are comprised of Collector, Minor Arterial, and Major Arterial roads as identified in the City of Elk Grove Improvement Standards, adopted October 24, 2018, and the Southeast Policy Area (SEPA) Special Planning Area Roadway Standards, adopted July 2014, with amendments through September 2018. Additional cross sections are included for site specific designs for roadways per the 2007 Rural Road Improvement Policy and Standards, Southeast Connector (JPA) typical sections for the extension of Kammerer Road, and for roadways included in the fee program that are within specific developments, such as Project Elevate and the Grant Line Industrial Annexation Area.

In general, the roadway segment cost estimates include only the construction of the inside travel lanes and median areas. The construction of the outermost travel lanes, bike lanes, and frontage improvements, including curb and gutter, sidewalks, and landscaping, are not included in the cost estimates unless indicated otherwise in the project descriptions. However, in some cases, full facility construction is included, principally where gap segments would occur or it is necessary to provide for orderly development consistent with the General Plan.

There are three categories of intersection cost estimates: new intersections, widening existing intersections, and roundabouts. Estimates for intersections include construction of roadway medians, all travel lanes, bike lanes and frontage improvements.

The existing and proposed roadway segment lengths were measured following the roadway alignments using KMZ files and Google Earth. Each segment length was measured from intersection to intersection, then reduced by 500 ft on each side (up to 1,000 ft total) to account for the roadway intersection legs included within the intersection estimates. See Diagram 1 for general limits of intersections and roadway segments; the green areas would typically be included within the intersection estimates, and the middle span of roadway would be included within the segment estimates.

**Diagram 1: Typical limits of intersection estimates are shaded green; and limits of roadway segment estimates are shaded gray.**



Intersection limits typically extend 500 ft from the center of intersection, unless confined by intersection spacing less than 1,000 ft. If intersection spacing is less than 1,000 ft, then the intersection limit is halfway between the two intersections. The intersection stop bar is assumed to be 50 ft from the center of intersection. Intersection approach leg lengths are typically 450 ft, measured from the intersection limit to the intersection stop bar. The paved center area of an intersection is calculated as an average of approach leg widths.

In addition, the roadway segment lengths are further reduced by 500' (250' from each direction) for any intermediate bridge improvement projects that are estimated elsewhere in the fee program.

The bridge and box culvert estimates are calculated per square feet based on the bridge or box culvert span and width. See Section 6.2 Bridge below for a description of the assumed bridge and box culvert spans and widths.

Pavement area calculations for roadway segments and intersections are based on the City of Elk Grove Standards. Typical sections for roadways and structures are included in Elk Grove Fee Study Typical Sections (See Attachment B for the Roadway Typical Sections). Outlined below are common lane configurations for roadway segment classifications per the Elk Grove City Improvement Standards.

**Table A –Typical Roadway Lane Configurations (City Improvement Standards)**

Roadway Class	Right of Way Width	No. of Travel Lanes	Travel Lane Widths	Landscape Median Width	Bike Lane Widths	Curb and Gutters
Collector	50'	2	12'	10'	5'	Type 2 (3' Wide)
Minor Arterial	74'	4	12'/11'	12'	5'	Type 2 (3' Wide)
Major Arterial	96'	6	12'/11'	12'	5'	Type 2 (3' Wide)

The City has also adopted typical sections that apply to roadways and intersections within the SEPA development area. The SEPA development area is located to the west of State Route (SR) 99, east of Big Horn Boulevard and Bruceville Road, south of Bilby Road and Poppy Ridge Road, and north of Kammerer Road. Typical sections for SEPA Collector, Arterial and Thoroughfare roads are described below.

**Table B –Typical Roadway Lane Configurations (SEPA Development Area Standards)**

Roadway Class	Right of Way Width	No. of Travel Lanes	Travel Lane Widths	Landscape Median Width	Bike Lane Widths	Curb and Gutters
Collector	52'	2	12'	12'	5'	Type 2 (3' Wide)
Minor Arterial	74'	4	12'/11'	12'	5'	Type 2 (3' Wide)
Major Arterial	96'	6	12'/11'	12'	5'	Type 2 (3' Wide)



Typical intersection configurations, lane widths and right-of-way follow the City of Elk Grove Public Works Standard Drawings ST-13, ST-14A, ST-14B, and ST-15A. Outlined below are common lane configurations intersection legs.

**Table C –Typical Intersection Lane Configurations (City Standard Drawings)**

<b>Collector legs generally include:</b>
10 ft wide through lane,
10 ft wide left turn pocket with 100 ft taper and 180 ft storage.
10 ft wide right turn pocket with 100 ft taper and 180 ft storage.
5 ft wide bikes lane, and
3 ft curb and gutter
<b>Arterial legs intersecting Collectors generally include:</b>
11.5 ft wide #1 through lane,
11 ft wide #2 through lane,
10 ft wide left turn pocket with 90 ft taper and 390 ft storage;
5 ft wide bike lane,
3 ft curb and gutter, and
Standard bus stop on the departing leg
<b>Arterial legs intersecting Minor Arterials/Major Arterial generally include:</b>
11 ft wide #1 through lane,
11 ft wide #2 through lane,
8 ft wide #1 left turn lane with 200 ft taper and 190 ft storage;
10 ft wide #2 left turn lane with 200 ft taper and 190 ft storage;
10 ft wide right turn pocket with 200 ft taper and 190 ft storage;
5 ft wide bike lane,
3 ft curb and gutter, and
Standard bus stop on departing leg
<b>Major Arterial legs intersecting Collectors generally include:</b>
12 ft wide #1 through lane,
11 ft wide #2 and #3 through lane;
10 ft wide left turn pocket with 185 ft taper and 205 ft storage;
5 ft wide bike lanes,
3 ft curb and gutter, and
Standard bus stop on the departing leg
<b>Major Arterial legs intersecting Minor Arterials/Major Arterial generally include:</b>
11 ft wide #1, #2, and #3 through lane;
8 ft wide #1 left turn lane with 200 ft taper, 2 ft median curb;
10 ft wide #2 left turn lane with 200 ft taper and 200 ft storage;
10 ft wide right turn pocket with 200 ft taper and 200 ft storage;
5 ft wide bike lane
3 ft curb and gutter, and
Standard bus stop on the departing leg



The roadway pavement structural sections included in Table D below were prepared using City of Elk Grove Improvement Standards, Table 1 Street Design Parameters.

**Table D –Roadway Pavement Structural Sections**

Street Type by Right-of-Way Width	Structural Section
40' streets (Primary Residential - 2 lanes)	4" AC on 13" AB
50' streets (Collector – 2 Lanes)	4" AC on 16" AB
74' streets (Minor Arterial – 4 Lanes)	5 ½" AC on 21" AB
96' streets (Major Arterial – 6 Lanes)	6 ½" AC on 23" AB

Where two roads with different pavement sections intersect, the larger structural section has been carried throughout the intersection area.

The 2019 PCI Report for Trench Cut Fee Program was provided by the City on October 07, 2019, which was used to identify existing pavement conditions.

Roadway Segments improvements include:

- A. Where the existing road condition is deemed inadequate, cost estimates assume rehabilitation of pavement for existing (interior) lanes and widen the road to meet the City’s standard for the road classification
- B. Where the existing road condition is deemed adequate, maintain the existing pavement section less 1 ft per side saw cut, overlay existing section with 1.5-inch AC to improve structural sections, and widen the road to meet the City’s standard for the road classification.

Intersections improvements include:

- A. Where no change in roadway classification is planned, and the current road condition is deemed inadequate, replace the entire road section with a new section consistent with the City’s classification of the road.
- B. Where no change in roadway classification is planned, and the current road condition is deemed adequate, maintain the existing pavement section, overlay structural section with 2-inch AC, and widen the road to meet the City’s standard for the road classification and proposed intersection configuration.
- C. Where there is a change in roadway classification replace the entire pavement structural section, less 10 ft center strip, with a pavement section consistent with City’s classification of the road in its ultimate condition. Overlay 10 ft center strip with 2-inch AC for use as paved median, two-way Left turn lane, or left turn pocket.

Frontage improvements are included if it is a roadway gap condition to address orderly development. Otherwise, it is a development responsibility to complete to the extent required by City standard.

Frontage improvement items for Standard and Rural roadways are listed within Table C. The typical section for Standard frontage improvements is depicted in Diagram 2 below. The typical section for Arterial with frontage improvements is depicted in Diagram 3 below.



Table E – Roadway Class Frontage Improvement Descriptions

Roadway Class	Roadway Item	Description
Collector	Sidewalk	Width: 5 ft per side
	Curb and Gutter (Type 2)	Width: 3 ft per side
	Landscaping	Width: 6 ft per side
	Street Lighting	Spacing: 220 ft staggered (Collectors); 220 ft paired (Arterial/Thoroughfare)
Minor/Major Arterial	Sidewalk	Width: 8 ft per side
	Curb and Gutter (Type 2)	Width: 3 ft per side
	Landscaping	Width: Varies
	Street Lighting	Spacing: 220 ft staggered (Collectors); 220 ft paired (Arterial/Thoroughfare)

Diagram 2: Frontage Improvements

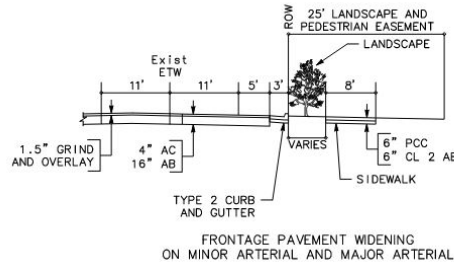
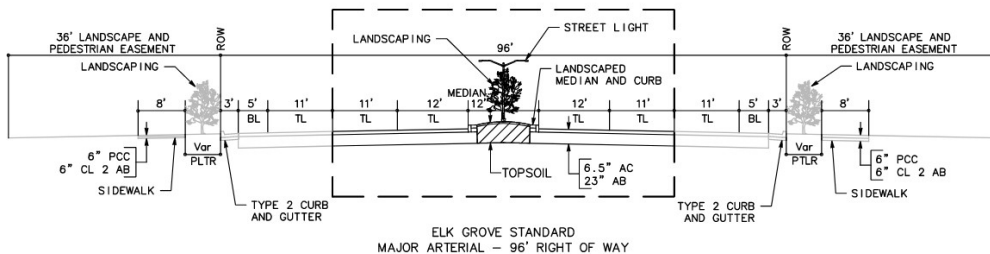
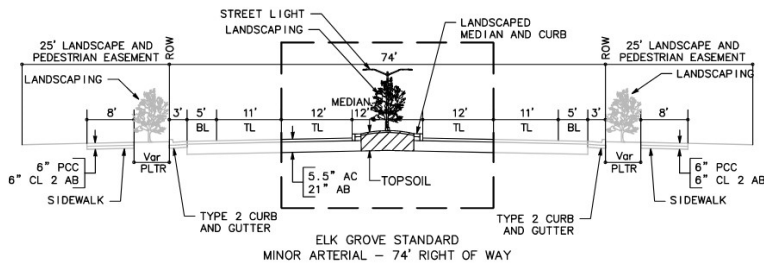


Diagram 3: Arterial with Frontage Improvements



Auxiliary lane estimates on I-5 and SR-99 within the City of Elk Grove are determined by measuring the length between interchanges and deducting the length of any existing ramps. The estimate accounts for grind and overlay of existing lanes to comply with Caltrans requirements and widening pavements for a new auxiliary lane and shoulder. Other improvements considered include embankment fill, relocating lighting, installing new overhead signs, guard rails, fences, and concrete barriers. The estimates also include costs for removal of the barrier and fences, minor drainage costs associated with adding an auxiliary lane such as adjusting drainage inlets to grade or extending existing culverts underneath the existing mainline. In addition, stage construction cost has been included due to the high volume of traffic on the freeway. This cost includes grinding the existing striping, creating temporary pavement on the inside shoulder, restriping the entire segment, and adding cost for k-rail, crash cushion, and other temporary traffic control measures.

Bridge and box culvert estimates are developed for several crossings of the Shed C Channel in the City of Elk Grove’s Laguna Ridge Specific Plan (LRSP) and SEPA. Two bridge types are Slab on Pile or Reinforced Concrete Box Culvert. Available bridge Selection Type Reports, provided by the City of Elk Grove, were used to determine the type of structure for our estimate. Approach roadway cost estimates included with each bridge include the full section construction with all lanes and frontage improvements.

Costs for new grade-separated railroad crossings vary for each location based on the skewed angle of the railroad and the approaching and connecting roadway realignments needed. Each railroad grade crossing cost estimate is itemized into eight (8) components: 1) earthwork, 2) drainage, 3) pavement, 4) miscellaneous items, 5) minor items, 6) structures, 7) contingency, and 8) engineering and management. Additional costs for R/W acquisition, and severance damages, utility relocations, and environmental mitigations were developed. R/W costs are approximate and vary from \$3 Million to \$33 Million depending on the classification of adjacent properties to be acquired (greenfield, residential or commercial) and assumed severance damages for impacts.

Costs for new and modified highway and urban interchanges are provided from other sources including the City’s Capital Improvement Program 5-year Plan and available project reports and estimates. Costs for design and R/W acquisition for the future grade separated urban interchanges on Kammerer Road at Bighorn Boulevard, Bruceville Road and Willard Parkway will be included once capital improvement costs can be obtained for those locations.

**UNIT COSTS**

Unit Costs were developed using City-furnished local project bid data, Caltrans District 03 Contract Cost Data from 2019 and 2020, and other available bid data from nearby projects within nearby jurisdictions. Unit cost data and analysis are included as Attachment D. Local project unit costs included earthwork, site work, street work, storm drain, street lights, landscaping, irrigation and planting. Table F lists the unit costs applied within these estimates.

**Table F – Summary of Unit Costs**

ITEM DESCRIPTION		UNIT	COSTS
<b>1</b>	<b>EARTHWORK</b>		
1.1	ROADWAY EXCAVATION	CY	\$30
1.2	IMPORT FILL (GRADE SEPARATIONS ONLY)	CY	\$40
<b>2</b>	<b>DRAINAGE</b>		
2.1	MODIFYING EXISTING STORM DRAINAGE	LF	\$100
2.2	NEW STORM DRAIN LATERALS AND INLETS	N/A	INCLUDED WITH SECTION ‘MINOR ITEMS’
2.3	DRAINAGE (AUX LANE COSTS ONLY)	LS	SEE AUX LANE DETAILED ESTIMATES

Table F – Summary of Unit Costs (Continued)

ITEM DESCRIPTION		UNIT	COSTS
<b>3</b>	<b>PAVEMENT</b>		
3.1	ASPHALT CONCRETE	TON	\$90
3.2	AGGREGATE BASE	CY	\$60
3.3	SIDEWALK	SF	\$12
3.4	CURB & GUTTER	LF	\$45
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17
3.6	TEXTURED PAVING (ROUNDBABOUT COSTS ONLY)	SF	\$40
3.7.1	THERMOPLASTIC PAVEMENT MARKINGS	LF	\$5.00
3.7.2	THERMOPLASTIC STRIPING	LF	\$1.00
<b>4</b>	<b>MISCELLANEOUS</b>		
4.1	TRAFFIC SIGNAL	LS	\$300,000
4.2	TRAFFIC SIGNAL MODIFICATIONS	LS	\$250,000
4.3	TRAFFIC SIGNAL REMOVAL (ROUNDBABOUT COSTS ONLY)	LS	\$125,000
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000
4.5	FIBER OPTIC CABLE	LF	\$56
4.6	NETWORK SYSTEM EQUIPMENT	EA	\$15,000
4.7	LANDSCAPING	SF	\$10
4.8	SIGNING AND STRIPING (ROUNDBABOUT COSTS ONLY)	LS	\$50,000
4.9	OVERHEAD SIGNS (AUX LANE COSTS ONLY)	EA	\$250,000
4.10	MIDWEST GUARDRAIL SYSTEM (AUX LANE COSTS ONLY)	LF	\$38
4.11	FENCE (TYPE CL-6) (AUX LANE COSTS ONLY)	LF	\$23
4.12	CONCRETE BARRIER (TYPE 60) WITH TYPE CL-6 FENCE (AUX LANE COSTS ONLY)	LF	\$110
4.13	REMOVE FENCE (AUX LANE COSTS ONLY)	LF	\$20
4.14	REMOVE BARRIER (AUX LANE COSTS ONLY)	LF	\$50
4.15	EMBANKMENT EARTHWORK (AUX LANE COSTS ONLY)	CY	\$15
4.16	CONSTRUCTION STAGING (AUX LANE COSTS ONLY)	LS	SEE AUX LANE DETAILED ESTIMATES
<b>5</b>	<b>MINOR ITEMS</b>		
5.1	GREENFIELD MINOR ITEMS	%	10%
5.2	DEVELOPED AREA MINOR ITEMS	%	10%
<b>6</b>	<b>STRUCTURES</b>		
6.1	BRIDGES (Slab on Pile)	SF	\$275
6.2	BOX CULVERTS	SF	\$200
6.3	CULVERTS (INTERSECTION COSTS)	LF	\$500
6.4	RETAINING WALL (INTERSECTION COSTS)	SF	\$150
6.5	AT-GRADE RAILROAD CROSSING DECOMMISSION	LS	[Estimated per location, see Detailed Estimates]
6.6	GRADE SEPARATED RAILROAD CROSSING*	LS	[Estimated per location, see Detailed Estimates]
6.7	SOUND WALL	SF	\$75
<b>7</b>	<b>CONTINGENCY</b>	%	20%
<b>8</b>	<b>ENGINEERING &amp; MANAGEMENT</b>		
8.1	ENGINEERING AND SURVEYING	%	15%
8.2	STAKING, PERMITTING, AND INSPECTION	%	10%
8.3	CALTRANS COORDINATION (ONLY ON APPLICABLE ESTIMATES)	%	3%
<b>9</b>	<b>RIGHT-OF-WAY &amp; EASEMENTS</b>		
9.1.1	GREENFIELD RIGHT-OF-WAY	SF	\$2.25
9.1.2	DEVELOPED AREA RIGHT-OF-WAY	SF	\$9.25
9.2.1	GREENFIELD EASEMENT	SF	\$2.25
9.2.2	DEVELOPED AREA EASEMENT	SF	\$9.25
9.3.1	GREENFIELD ACQUISITION SOFT COST (LENGTH OF PARCEL LINE)	LF	\$40
9.3.2	DEVELOPED AREA ACQUISITION SOFT COST (LENGTH OF PARCEL LINE)	LF	\$120
9.4	SEVERANCE DAMAGES	LS	[Estimated per location, see Detailed Estimates]
9.5	R/W CONTINGENCY	%	10%
	<b>UTILITY RELOCATION</b>	%	2.0% - 20%
	<b>ENVIRONMENTAL MITIGATION</b>	%	3.0% - 5.0%

\*Grade separation includes bridge structures, retaining walls, and new roadway approaches and other costs for each RR Grade Separation Estimate.

## DETAILED COST ESTIMATE ITEMS

The following section identifies and describes the sections included within the cost estimate packages.

### **1. EARTHWORK**

Earthwork is divided into two (2) categories: Roadway Excavation and Import Fill. Earthwork volumes are approximate and developed from assumptions about existing and proposed site conditions. No surveying or topographic data was used in determining these calculations.

#### *1.1 ROADWAY EXCAVATION*

Roadway excavation within our estimates is generated from construction of new roadway pavement sections as identified in Table D above. Roadway excavation was calculated within the proposed roadway limits and assumes that the existing and proposed finished grade will remain the same. Roadway limits extend to either edge of pavement or gutter pan lip. Roadway excavation depth is controlled by the proposed roadway structural section depth. Where provided, roadside ditches are included in the quantities and costs for roadway excavation.

Roadway Excavation cost is assumed to be \$30/CY.

#### *1.2 IMPORT FILL*

Import fill for grade separated intersections is estimated assuming approaches with 4:1 side slope and a 19 ft vertical change in grades. Roadway width is controlled by roadway classification.

Import fill for most roadway segments and at-grade intersections is not included within this section as it is generally covered within Section 5. 'Minor Items'.

Import Fill cost is assumed to be \$40/CY.

### **2. DRAINAGE**

#### *2.1 MODIFY EXISTING STORM DRAINAGE*

Existing drainage facilities were estimated by measuring roadway segment lengths by looking at Google Earth for existing inlets and storm drain manholes to estimate the presence of existing storm drain mains. The estimated lengths for new storm drain mains were multiplied by \$100/LF.

#### *2.2 NEW STORM DRAIN LATERALS AND INLETS*

The cost for new storm drain laterals (and for new drain inlets where frontage improvements are included in the costs) is included in Section 5. 'Minor Items'.

Costs for longitudinal ditches are covered in Section 1.1. 'Roadway Excavation'.

#### *2.3 DRAINAGE (AUX LANE COSTS ONLY)*

The cost for this drainage for the auxiliary lane estimates includes adjusting/resetting drainage inlets that are affected by the auxiliary lane widening, extending existing culverts underneath the mainline. Cost for regrading ditches is covered in Section 1.1 'Roadway Excavation'.

Cost is lump sum and ranges from \$10,000 to \$42,900 per location (See Aux Lane estimates).

### 3. PAVEMENT

Pavement Costs are divided into seven (7) categories: Asphalt Concrete, Aggregate Base, Sidewalk, Curb and Gutter; Median Curb with Landscape Strip; Thermoplastic Markings and Thermoplastic Striping.

#### 3.1 ASPHALT CONCRETE

Asphalt concrete costs include both new structural sections (see Table D above for section depths) and overlay of existing roadways. Asphalt concrete calculations assume in place density of 155 lb/CF.

Asphalt concrete cost is assumed to be \$90/TON.

#### 3.2 AGGREGATE BASE

Aggregate base costs only account for only AB within the roadway pavement structural section. For sidewalk, curb and gutter, median curb and 2 ft concrete landscape strip, it is assumed that the necessary aggregate base is included in the unit price for each line item.

Aggregate base cost is assumed to be \$60/CY.

#### 3.3 SIDEWALK

Sidewalks for segments where frontage improvements are included are assumed to be 5 ft wide and run along both sides of the roadway.

Sidewalk unit costs are assumed to be \$12/SF.

#### 3.4 CURB & GUTTER

Type 2 curb and gutters are assumed on both sides for segments where roadway frontage improvements are included. The difference in cost between Type 2 curb and gutter and Type 2 reinforced curb and gutter installed at areas of bus turnouts is assumed to be captured within Section 5. 'Minor Items'.

Curb & Gutter unit costs are assumed to be \$45/LF.

#### 3.5 MEDIAN CURBS WITH LANDSCAPE STRIP

Median curbs with landscape strip unit costs are assumed to be \$17/LF.

#### 3.6 TEXTURED PAVING (ROUNDAABOUT COSTS ONLY)

Textured paving assumed to be a type of concrete treatment for the roundabout and the splitter islands. Assumption is \$40/SF.

#### 3.7.1 THERMOPLASTIC PAVEMENT MARKINGS

Cost for thermoplastic pavement markings was only itemized for projects identified as restriping only. Otherwise, the cost for thermoplastic pavement markings is included with Section 5. 'Minor Items'.

Thermoplastic pavement markings unit costs are assumed to be \$5/LF.

### 3.7.2 THERMOPLASTIC STRIPING

Cost for thermoplastic striping was only itemized for projects identified as restriping only. Otherwise, the cost for thermoplastic striping is included with Section 5. 'Minor Items'. Thermoplastic striping unit costs are assumed to be \$1/LF.

## 4. MISCELLANEOUS

Miscellaneous costs include the following categories: Traffic Signal, Traffic Signal Modifications, Street Lights / Electroliers; Fiber Optic Cable, Network System Equipment and Landscaping.

### 4.1 TRAFFIC SIGNAL

Traffic Signal costs account for installation of new traffic signals at an intersection. Traffic signal unit costs include the poles and mast arms, signal heads, traffic controller cabinet, electrical wiring, video detection, safety lighting, and new electrical service to power the signals and equipment. Costs for new traffic signal interconnect and/or communications equipment are not included in these estimates. Traffic signal costs were not included for new signals at collector roadways where the adjacent development would be liable for the new roadway and traffic signal installation.

Traffic Signal unit costs are assumed to be \$300,000/intersection.

### 4.2 TRAFFIC SIGNAL MODIFICATIONS

Traffic Signal Modification costs includes equipment to update an existing traffic signal at an intersection. Typical Improvement include installing new poles and mast arms for larger roadways, changing existing signal heads, adding new signal heads, relocating the traffic controller cabinet, update electrical wiring, install video detection, and adding street lights to the mast arms, if necessary. Costs for new/upgraded signal communications equipment and interconnect or upgraded traffic signal controllers are not included in these estimates.

Traffic Signal Modification unit costs are assumed to be \$250,000/intersection.

### 4.3 TRAFFIC SIGNAL REMOVAL (ROUNDAABOUT COSTS ONLY)

Cost includes removing existing traffic signal system, mast arms, equipment, and wiring for new roundabouts. Assumed cost is \$125,000/intersection

### 4.4 STREET LIGHTS / ELECTROLIERS

Street lights and electroliers along arterial roadways will be installed in the medians per City Standard Detail SL-24, with 220 ft spacing on both sides. Along collector roadways without medians, street lights will be installed along with the frontage improvements staggered with 220 ft spacing. For Rural Roads, new street lights are estimated at intersections only.

Street Lights / Electroliers are assumed to cost \$10,000/light.

### 4.5 FIBER OPTIC CABLE

Fiber optic cable is included in roadway segment and intersection costs along arterial roadways. 24-Stranded Fiber Optic Cable, 2" Conduit and Trench, and fiber optic equipment are assumed to cost \$56/LF.



#### 4.6 NETWORK SYSTEM EQUIPMENT

Costs are included for installing network system equipment at each intersection along with installation or modification of the traffic signal. Assumed to be \$15,000/Intersection.

#### 4.7 LANDSCAPING

Landscaping cost is included for roadway segments and intersections with median or frontage improvements. Landscaping costs include irrigation, topsoil and planting.

Landscaping unit costs are assumed to be \$10/SF.

#### 4.8 SIGNING AND STRIPING (ROUNDAABOUT COSTS ONLY)

Lump sum cost for roundabout includes striping, pavement marking, green paint marking, any special signage needed for a roundabout.

Assumed cost to be a lump sum, \$50,000/Roundabout.

#### 4.9 OVERHEAD SIGNS (AUX LANE COSTS ONLY)

Assumed cost includes replacing existing overhead sign with a new overhead sign that adheres to auxiliary lane signage and wayfinding.

Assumed cost to be \$250,000 Each.

#### 4.10 MIDWEST GUARDRAIL SYSTEM (AUX LANE COSTS ONLY)

Assumed cost for aux lane is \$38 per linear foot of guardrail system. Caltrans Standard MGS and terminal end systems are assumed at each location.

#### 4.11 FENCE (TYPE CL-6) (AUX LANE COSTS ONLY)

Assumed cost is to replace the fence after auxiliary lane is installed. Cost is \$23 per linear foot. Caltrans Standard 6' High Chain Link Fence is assumed at each location.

#### 4.12 CONCRETE BARRIER WITH CL-6 FENCE (AUX LANE COSTS ONLY)

Cost is included for installing Type 60 concrete barrier with a Type CL-6 Fence once the new auxiliary lane is installed. This is to match the existing condition of the road. Assumed cost to be \$110 per linear foot.

#### 4.13 REMOVE FENCE (AUX LANE COSTS ONLY)

Cost is included to remove existing fences where needed to install new auxiliary lanes. Assumed cost to be \$20 per linear foot.

#### 4.14 REMOVE BARRIER (AUX LANE COSTS ONLY)

Cost is included to remove existing barrier to shift the lane in order to install new auxiliary lanes. Assumed cost to be \$50 per linear foot.

#### 4.15 EMBANKMENT EARTHWORK (AUX LANE COSTS ONLY)

Assumed embankment for the installed auxiliary lane is 3-foot hinge with a 4:1 side slope. The installed auxiliary lane will match existing cross slope of mainline and the height difference between finish grade (FG) and original grade (OG) at the edge of pavement of the auxiliary lane is less than 3 feet. Assumed to be \$15/CY.

#### 4.16 CONSTRUCTION STAGING (AUX LANE COSTS ONLY)

Construction staging includes cost for grinding the existing striping, creating temporary pavement on the inside shoulder, removing the existing rumble strips, restriping the entire segment, adding cost for k-rail, crash cushion and other temporary traffic control measures.

Assumed cost depends on the length of the auxiliary lane segment. See detailed estimates for aux lanes for specific cost.

### 5. MINOR ITEMS

Minor Items include costs not captured within sections 1 to 4. Examples of minor item costs can include mobilization, traffic control, water pollution control, Storm Water Pollution Prevention Program (SWPPP), water supply (meter and connection), storm drain laterals and inlets, general roadway import fill, and signing and striping. Auxiliary lane projects minor items include the rumble strips and tapered edge.

#### 5.1 GREENFIELD MINOR ITEMS

Greenfield Minor Items costs apply to Greenfield Segments and Intersections. Greenfield Minor Items are 10% of the combined costs for sections 1 to 4.

#### 5.2 DEVELOPED AREA MINOR ITEMS

Developed Area Minor Items apply to Developed Area Segments. Developed Area Minor Items are 10% of the combined costs for sections 1 to 4. The increased percentage for Developed Area accounts for increased conflicts with existing facilities and obstructions that will need to be removed with the new roadway.

### 6. STRUCTURES

Structures include slab on pile bridges, culverts, retaining walls, and railroad crossings. Existing and proposed structures observed within these estimates are indexed within Attachment E.

#### 6.1 BRIDGES

The City's General Plan, as well as specific area plans, including the Southeast Policy Area (SEPA) and the Eastern Elk Grove Community Plan call for roadway crossings of creeks and drainage channels to support efficient movements and avoid circuitous routes. To implement these plans and policies, several crossings have been estimated.

Bridge estimates are divided into two categories: Slab on Pile and Box Culvert. The estimated structure types and dimensions are based on the Type Selection Reports prepared by Dokken Engineering. Unit costs are based on area of the structure.

**Table G – Bridge and Box Culvert Locations and Descriptions**

<b>Bridge ID</b>	<b>Location</b>	<b>Structure Type and Dimension</b>
1	Lotz Parkway at Shed C Channel	Box culvert (112'L X 84'W)
2	Road B at Shed C	Box culvert (78'L X 64'W)
3	Bilby Road at Shed C Channel	Slab on pile (Two - 86' X 44'W ea.)
4	Big Horn Boulevard at Shed C Channel	Slab on pile (Two - 86' X 44'W ea.)
5	Bruceville Road at Shed C Channel	Box culvert (31'L X 124'W)
6	Laguna Ridge Crossing at Laguna Creek	Box culvert (23'L X 52'W)
7	Wyland Drive at Elk Grove Creek	Box culvert (50'L X 52'W)
8	Ridgerock Drive at Elk Grove Creek	Box culvert (50'L X 52'W)

Slab on Pile Bridges unit costs are assumed to be \$275/SF.

**6.2 BOX CULVERTS**

Alternative to Slab on Pile structures, Box Culverts were recommended at various location where it was more economical and where alternative crossing types were necessary to meet site design objectives, including trail connectivity.

Box Culvert unit costs are assumed to be \$200/SF.

**6.3 CULVERTS (INTERSECTION COST ONLY)**

Cost includes removing and replacing existing culvert that is within the limits of the intersection. Cost assumed to be \$500 per linear foot.

**6.4 RETAINING WALL (INTERSECTION COST ONLY)**

Retaining wall cost includes wall in fill condition approximately 10 feet high within the limits of the intersection. Assumption to use Caltrans standard retaining wall type. Cost assumed to be \$150 per square foot.

**6.5 AT-GRADE RAILROAD CROSSINGS DECOMMISSION**

The existing at-grade railroad crossing at Bilby Road and Union Pacific Railroad (UPRR) is estimated to be decommissioned. Bilby Road UPRR will be separated by constructing two cul-de-sacs. One will be constructed on the East of UPRR and the other on the West per City of Elk Grove Standards. See the detailed estimates for a description of the items included in the Railroad Grade Crossing projects.

**6.6 AT-GRADE RAILROAD CROSSINGS CONVERT TO NEW GRADE-SEPARATION RAILROAD CROSSINGS**

See the detailed estimates for a description of the items included in the Railroad Grade Crossing projects.

**6.7 SOUND WALL (GRADE-SEPARATION RAILROAD CROSSINGS AT KAMMERER ROAD/UPRR ONLY)**

Sound wall cost includes constructing a new sound wall approximately 10 feet high. Cost assumed to be \$75 per square foot.

**7. CONTINGENCY**

Contingency cost is included to compensate for the use of limited information when preparing these estimates.

Contingency cost is 20% of the combined costs of section 1 to 6.



## 8. ENGINEERING AND MANAGEMENT

Engineering and management costs have been assumed based on industry averages to capture soft costs associated with roadway construction. Engineering and management costs are percentages of combined project construction costs from sections 1 to 7.

### 8.1 ENGINEERING AND SURVEYING

Engineering and Surveying Cost is 15% of the combined costs of section 1 to 7.

### 8.2 STAKING, PERMITTING, AND INSPECTION

Staking, permitting, and inspection cost is 10%-15% of the combined costs of section 1 to 7.

### 8.3 CALTRANS COORDINATION (ONLY ON APPLICABLE ESTIMATES)

Design Engineering cost is 3% of the combined costs of section 1 to 7. Only applies to segments or intersections that are within Caltrans right of way.

## 9. RIGHT-OF-WAY & EASEMENTS

Right-of-Way & Easement costs are divided into six (6) categories: greenfield right-of-way, developed area right-of-way, greenfield easement, developed area easement, greenfield acquisition soft cost, and developed area acquisition soft cost.

Proposed right-of-way and easement costs are calculated as the difference between proposed and existing segment areas assuming existing and proposed right-of-way meets County Standard roadway classifications.

### 9.1.1 GREENFIELD RIGHT-OF-WAY

Greenfield right-of-way costs are included when roadway classification changes for Greenfield Segments.

Greenfield right-of-way unit cost is assumed to be \$2.25/SF.

### 9.1.2 DEVELOPED AREA RIGHT-OF-WAY

Developed Area right-of-way costs are included when roadway classification changes for Developed Area Segments.

Developed Area right-of-Way unit cost is assumed to be \$9.25/SF.

### 9.2.1 GREENFIELD EASEMENT

Greenfield easement costs are included when roadway classification changes and there are frontage improvements along Greenfield Segments.

Greenfield easement unit cost is assumed to be \$2.25/SF.

### 9.2.2 DEVELOPED AREA EASEMENT

Developed Area easement costs are included when roadway classification changes and there are frontage improvements along Developed Area Segments.

Developed Area easement unit cost is assumed to be \$9.25/SF.

#### *9.3.1 GREENFIELD ACQUISITION SOFT COST*

Greenfield acquisition soft costs for conducting the acquisition of property are included when either greenfield right-of-way costs or greenfield easement costs are included within the estimate.

Greenfield acquisition soft costs are assumed to be \$40/LF.

#### *9.3.2 DEVELOPED AREA ACQUISITION SOFT COST*

Developed area acquisition soft costs for conducting the acquisition of property are included when either developed area right-of-way costs or developed area easement costs are included within the estimate.

Developed area acquisition soft costs are assumed to be \$120/LF.

#### *9.4 SEVERANCE DAMAGES*

This cost is only applicable to specific projects such as roundabouts and railroad grade crossing estimates due to the acquisition of existing right of way. The projects will change the functionality of existing businesses or purchase of a residence, therefore will require severance damages along with acquisition. Cost to be finalized with the City. We have included a lump sum cost for locations where damages have been identified.

#### *9.5 RIGHT OF WAY CONTINGENCY*

Contingency cost is included to compensate for the use of limited information when preparing these estimates.

Contingency cost is 10% of the combined costs of Section 9.

### **10. UTILITY RELOCATION**

Utility relocations cost is assumed to be 2.0% of the combined costs of section 1 to 7. A higher percentage (10% to 20%) has been used for utility relocation costs for roadway segments and intersection projects involving relocation of utility poles.

### **11. ENVIRONMENTAL MITIGATION**

Environmental mitigation costs assumed to be 3.0% of the combined costs of section 1 to 7. A higher percentage (5%) has been used for environmental mitigation costs for roadway segment, bridge and intersection costs involving work in water courses or through vernal pool areas.

## LIST OF ATTACHMENTS

### ATTACHMENT A – KEY MAP

### ATTACHMENT B – TYPICAL ROADWAY CROSS SECTIONS

- ELK GROVE ROADWAY AND STRUCTURES STANDARD CROSS SECTIONS
- SEPA ROADWAY AND STRUCTURES STANDARD CROSS SECTIONS
- ROADWAY WIDENING AND RECONSTRUCTION CROSS SECTIONS
- FRONTAGE, FREEWAY, RURAL, AND AUX LANES CROSS SECTIONS

### ATTACHMENT C – CITY OF ELK GROVE STANDARD DRAWING

- COLLECTOR STREETS WITH THOROUGHFARE OR ARTERIALS (DWG NO. ST-13)
- ARTERIAL INTERSECTIONS WITH THOROUGHFARE OR ARTERIALS (DWG NO. ST-14A)
- ARTERIAL INTERSECTIONS WITH COLLECTORS (DWG NO. ST-14B)
- THROUGHFARE INTERSECTIONS WITH THOROUGHFARE OR ARTERIALS (DWG NO. ST-15A)
- THROUGHFARE INTERSECTIONS WITH COLLECTORS (DWG NO. ST-15B)

### ATTACHMENT D – UNIT COSTS DATA AND ANALYSIS

- UNIT COST SUMMARY TABLE
- BACK UP COSTS FOR ITEMS 1, 2, 3, 4, AND 6

### ATTACHMENT E – ROADWAY SEGMENT ESTIMATES

- ROADWAY SEGMENT SUMMARY TABLE
- ROADWAY SEGMENT DETAILED ESTIMATES (INCLUDES RURAL SEGMENTS)

### ATTACHMENT F – INTERSECTION ESTIMATES

- INTERSECTION ESTIMATE SUMMARY TABLE
- INTERSECTION DETAILED ESTIMATES (INCLUDES, NEW INTERSECTIONS, INTERSECTION WIDENING, AND ROUNDABOUTS)

### ATTACHMENT G – BRIDGES AND BOX CULVERTS ESTIMATES

- BRIDGES AND BOX CULVERTS SUMMARY TABLE
- BRIDGES AND BOX CULVERTS DETAILED ESTIMATES

### ATTACHMENT H – AUXILIARY LANES ESTIMATES

- AUXILIARY LANES SUMMARY TABLE
- AUXILIARY LANES DETAILED ESTIMATES

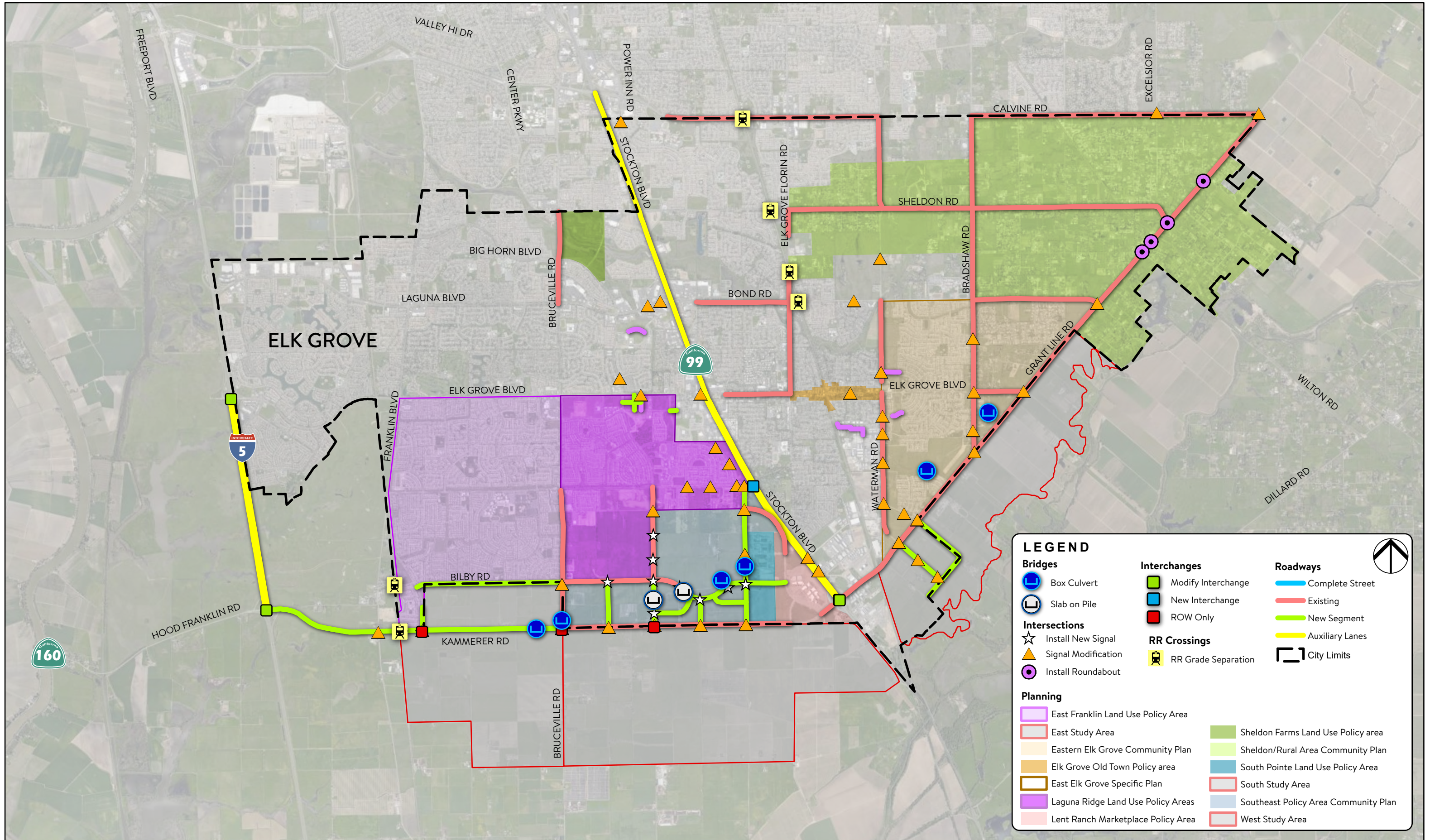
### ATTACHMENT I – RAILROAD GRADE CROSSING ESTIMATES

- RAILROAD GRADE CROSSING SUMMARY TABLE
- RAILROAD GRADE CROSSING DETAILED ESTIMATES

### ATTACHMENT J – HIGHWAY AND URBAN INTERCHANGES ESTIMATES

- HIGHWAY AND URBAN INTERCHANGES SUMMARY TABLE
- H-2.0 BACK UP ESTIMATE
- H-3.0 DETAILED ESTIMATE

ATTACHMENT A – KEY MAP



Rev Date: 2021-2-12



ATTACHMENT A - ELK GROVE ROADWAY FEE PROGRAM KEY MAP



ATTACHMENT B – TYPICAL ROADWAY CROSS SECTIONS

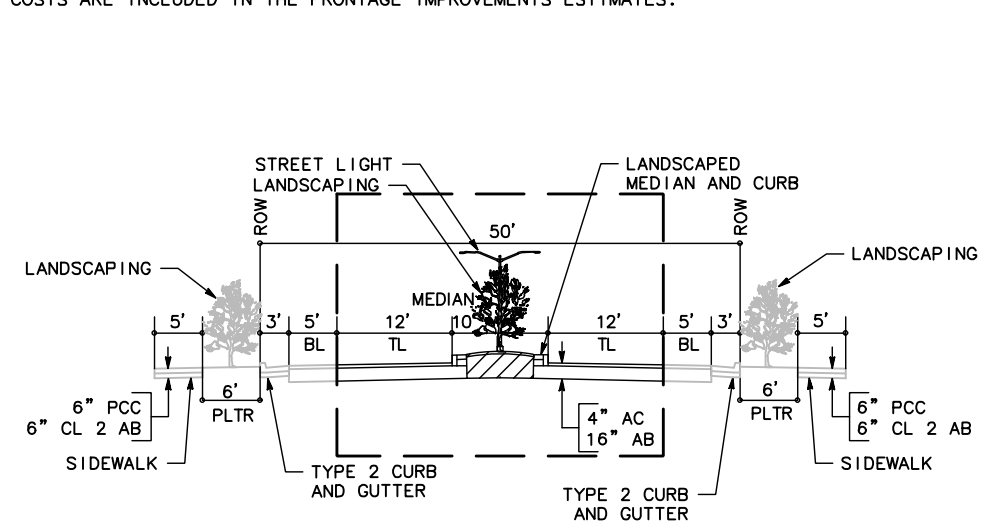
**NOTES:**

- ROAD CLASSIFICATIONS (COLLECTOR, MINOR ARTERIAL, AND MAJOR ARTERIAL) ARE BASED ON SECTION 4 OF THE CITY OF ELK GROVE IMPROVEMENT STANDARDS.
- PROPOSED PAVEMENT SECTION DEPTH IS BASED ON SECTION 4 TABLE 1 OF THE CITY OF ELK GROVE IMPROVEMENT STANDARDS (OCTOBER 2018). PROPOSED PAVEMENT SECTIONS:  
 COLLECTOR = 4" AC, 16" CL 2 AB  
 MINOR ARTERIAL = 5.5" AC, 21" CL 2 AB  
 MAJOR ARTERIAL = 6.5" AC, 23" CL 2 AB
- DRAINAGE AND RIGHT OF WAY COSTS ARE INCLUDED IN ROADWAY SEGMENT ESTIMATES.  
 PEDESTRIAN EASEMENT COSTS ARE INCLUDED IN THE FRONTAGE IMPROVEMENTS ESTIMATES.

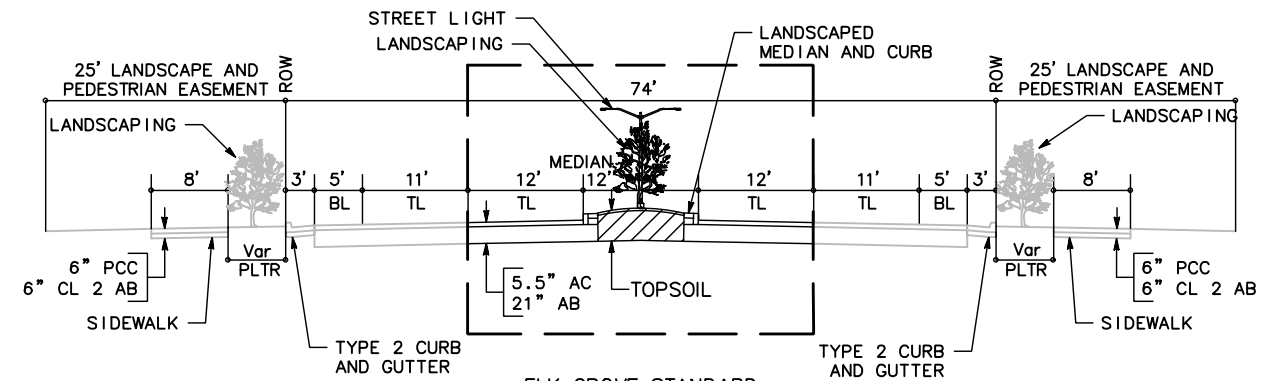
[ ] LIMIT OF IMPROVEMENTS INCLUDED IN CITY ROADWAY FEE PROGRAM

**ABBREVIATIONS**

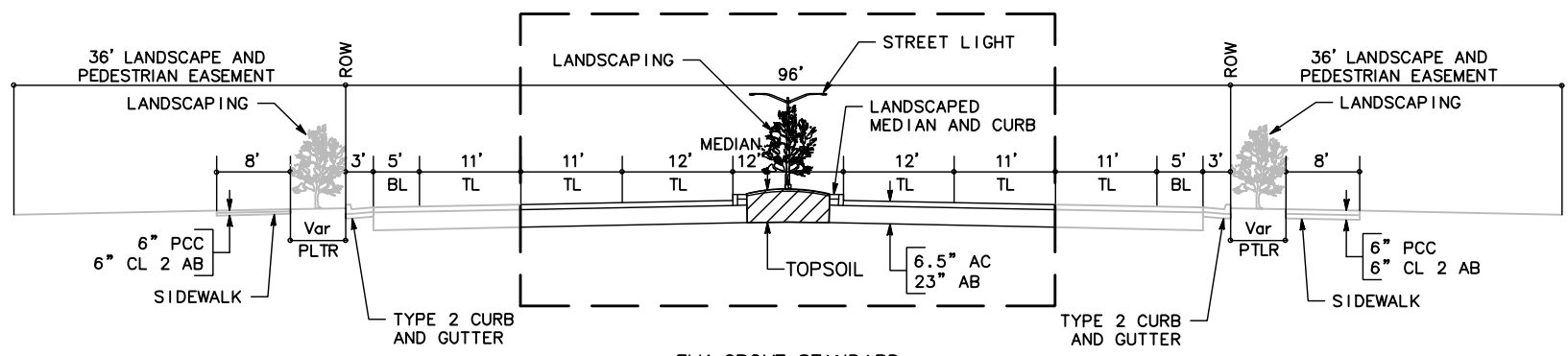
AB	AGGREGATE BASE	OG	ORIGINAL GROUND
AC	ASPHALT CONCRETE	Var	VARIABLES
AUX	AUXILIARY	RHMA-G	RUBBERIZED HOT MIX ASPHALT - GAP GRADED
BL	BIKE LANE	HP	HINGE POINT
CL	CLASS	PCC	PORTLAND CEMENT CONCRETE
ES	EDGE OF SHOULDER	PVMT	PAVEMENT
ETW	EDGE OF TRAVEL WAY	PLTR	PLANTER
ROW	RIGHT OF WAY	S/C	SAWCUT
Exist	EXISTING	TL	TRAVEL LANE



ELK GROVE STANDARD COLLECTOR - 50' RIGHT OF WAY

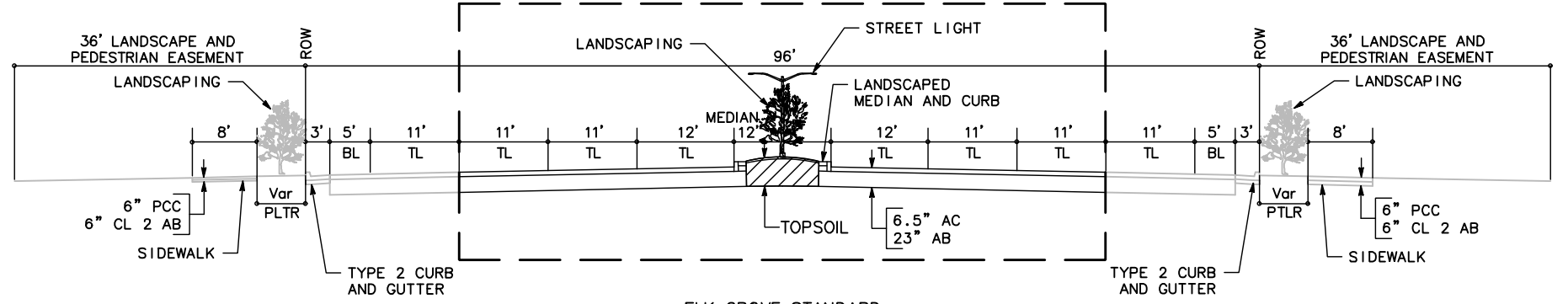


ELK GROVE STANDARD MINOR ARTERIAL - 74' RIGHT OF WAY

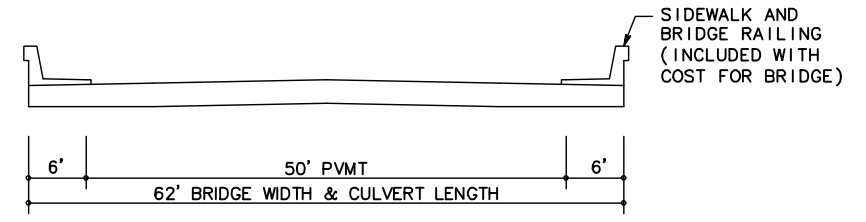


ELK GROVE STANDARD MAJOR ARTERIAL - 96' RIGHT OF WAY

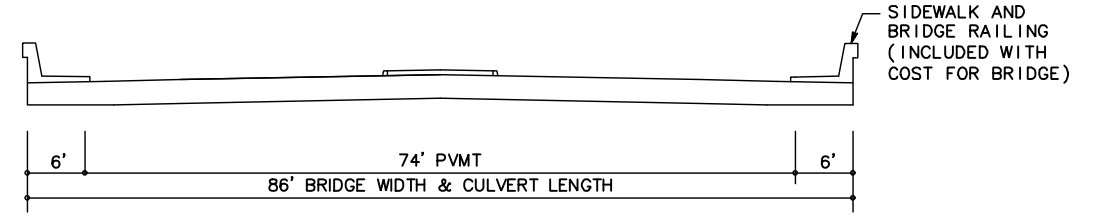
**ELK GROVE STANDARDS  
NEW ROADWAY SEGMENTS**



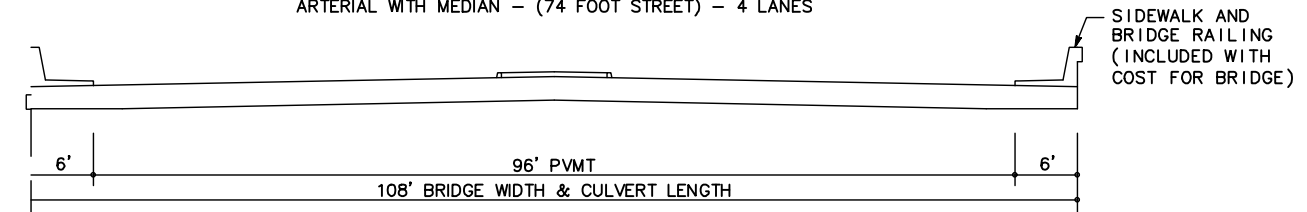
ELK GROVE STANDARD MAJOR ARTERIAL - 118' RIGHT OF WAY



ELK GROVE STANDARD COLLECTOR - (42 FOOT STREET) - 2 LANES

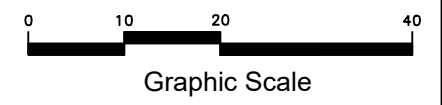


ELK GROVE STANDARD ARTERIAL WITH MEDIAN - (74 FOOT STREET) - 4 LANES



ELK GROVE STANDARD THOROUGHFARE WITH MEDIAN - (96 FOOT STREET) - 6 LANES



**ELK GROVE STANDARDS  
STRUCTURES IMPROVEMENT  
ASSUMPTIONS FOR BRIDGES**



ATTACHMENT B

SCALE: 1" = 20'

**EG ROADWAY FEE PROGRAM  
TYPICAL ROADWAY CROSS SECTION  
ELK GROVE ROADWAY & STRUCTURE STANDARDS**

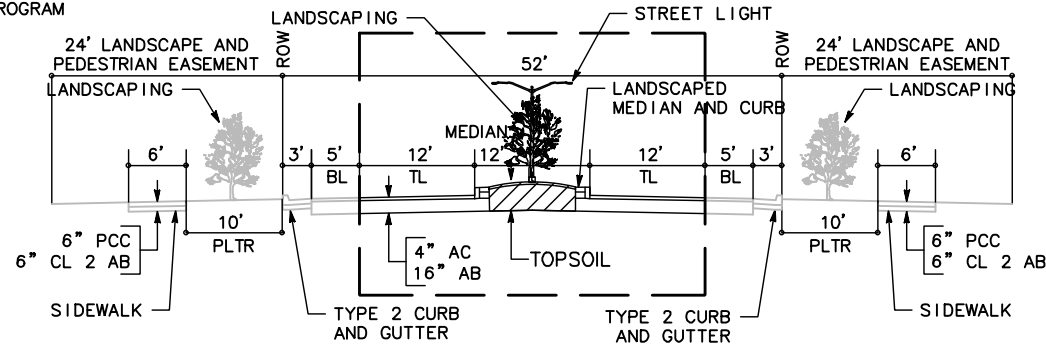



SHEET 1 OF 4

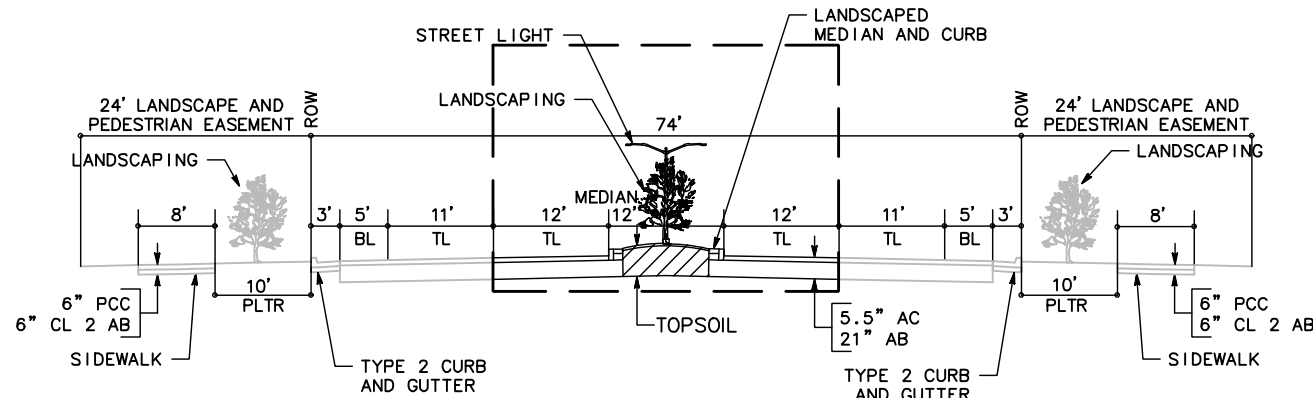
**NOTES:**

- ROAD CLASSIFICATIONS (COLLECTOR, MINOR ARTERIAL, AND MAJOR ARTERIAL) ARE BASED ON CHAPTER 4 OF THE SOUTHEAST POLICY AREA SPECIAL PLANNING AREA.
- PROPOSED PAVEMENT SECTION DEPTH IS BASED ON SECTION 4 TABLE 1 OF THE CITY OF ELK GROVE IMPROVEMENT STANDARDS (OCTOBER 2018). PROPOSED PAVEMENT SECTIONS:  
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- DRAINAGE AND RIGHT OF WAY COSTS ARE INCLUDED IN ROADWAY SEGMENT ESTIMATES. PEDESTRIAN EASEMENT COSTS ARE INCLUDED IN THE FRONTAGE IMPROVEMENTS ESTIMATES.
- FROM BRADSHAW ROAD ON GRANT LINE ROAD TO BOND ROAD, USE 4' BIKE LANES AND 6' SIDEWALKS.

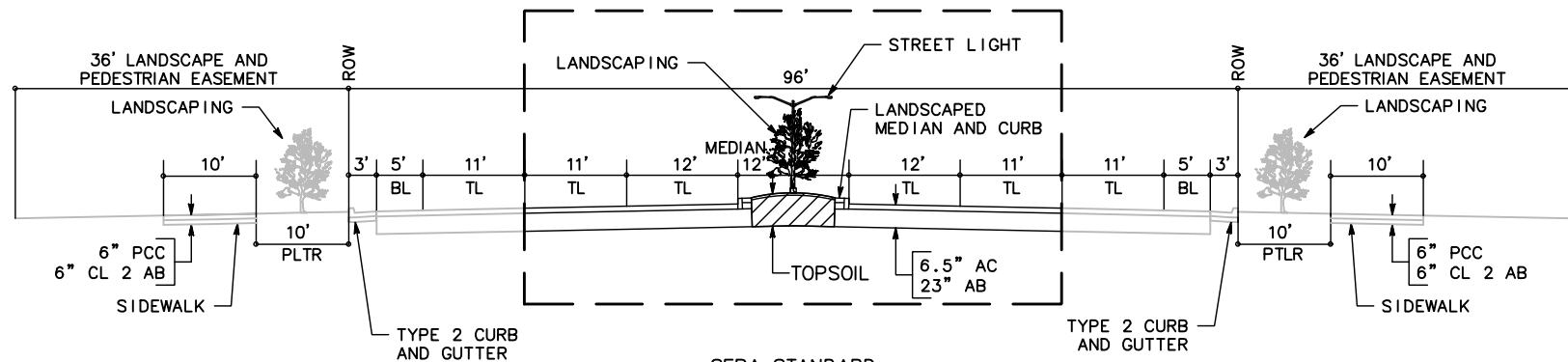
LIMIT OF IMPROVEMENTS INCLUDED IN CITY ROADWAY FEE PROGRAM



SEPA STANDARD COLLECTOR - 52' RIGHT OF WAY

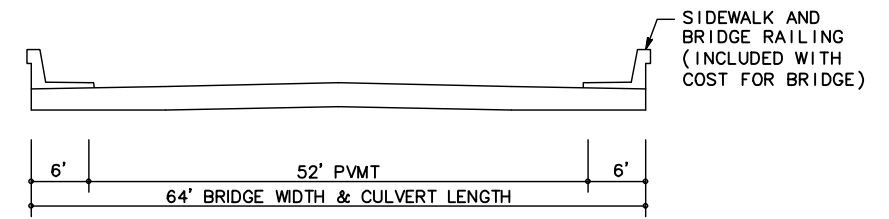


SEPA STANDARD MINOR ARTERIAL - 74' RIGHT OF WAY

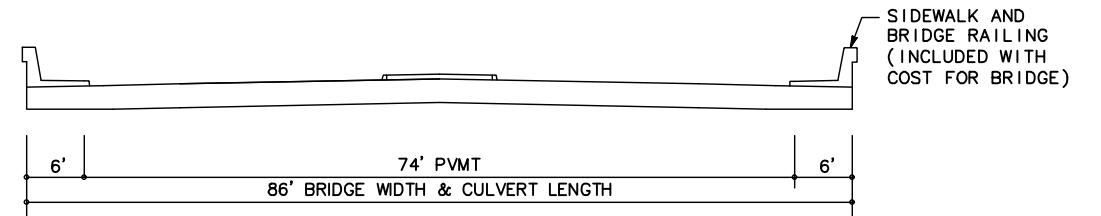


SEPA STANDARD MAJOR ARTERIAL - 96' RIGHT OF WAY

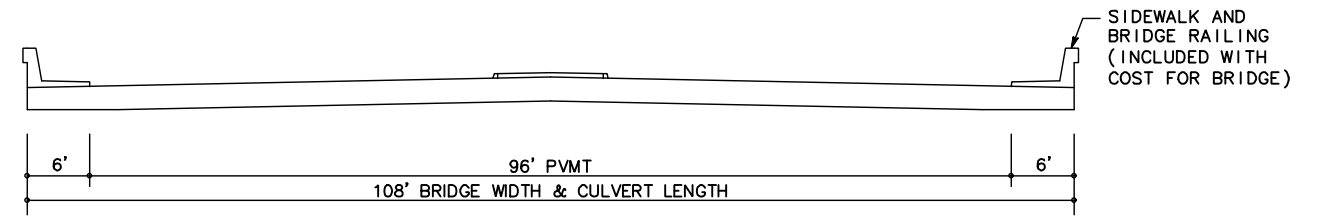
**SEPA STANDARDS  
NEW ROADWAY SEGMENTS**



SEPA STANDARD COLLECTOR - (42 FOOT STREET) - 2 LANES



SEPA STANDARD ARTERIAL WITH MEDIAN - (74 FOOT STREET) - 4 LANES



SEPA STANDARD THOROUGHFARE WITH MEDIAN - (96 FOOT STREET) - 6 LANES

**SEPA STANDARDS  
STRUCTURES IMPROVEMENT  
ASSUMPTIONS FOR BRIDGES**



Graphic Scale

ATTACHMENT B

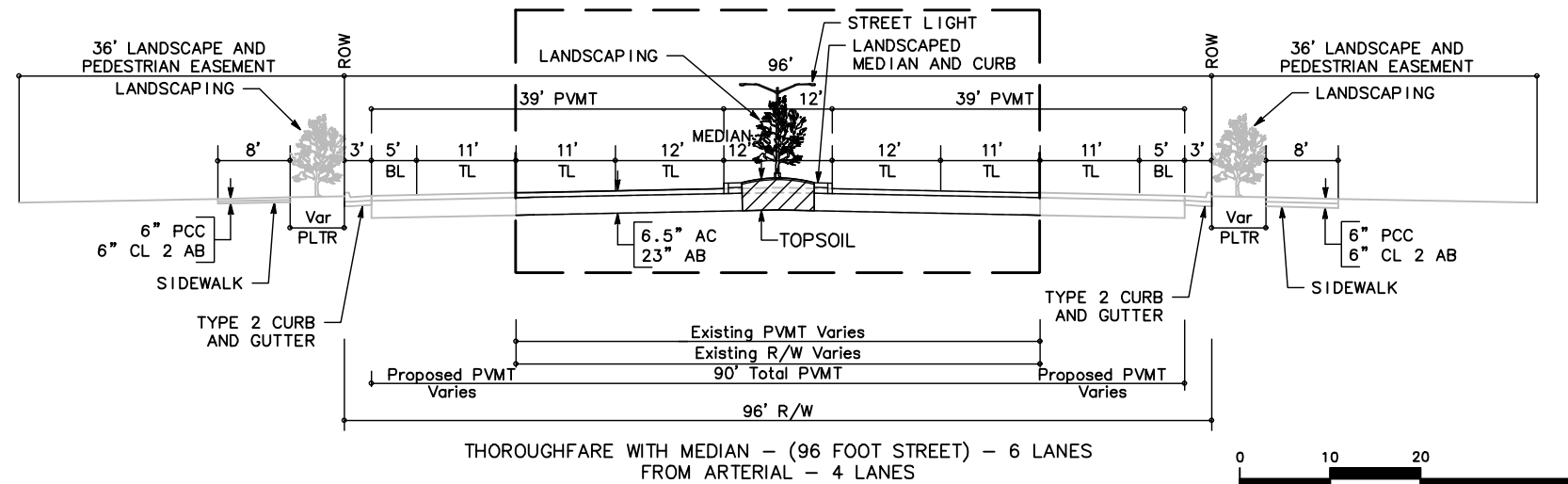
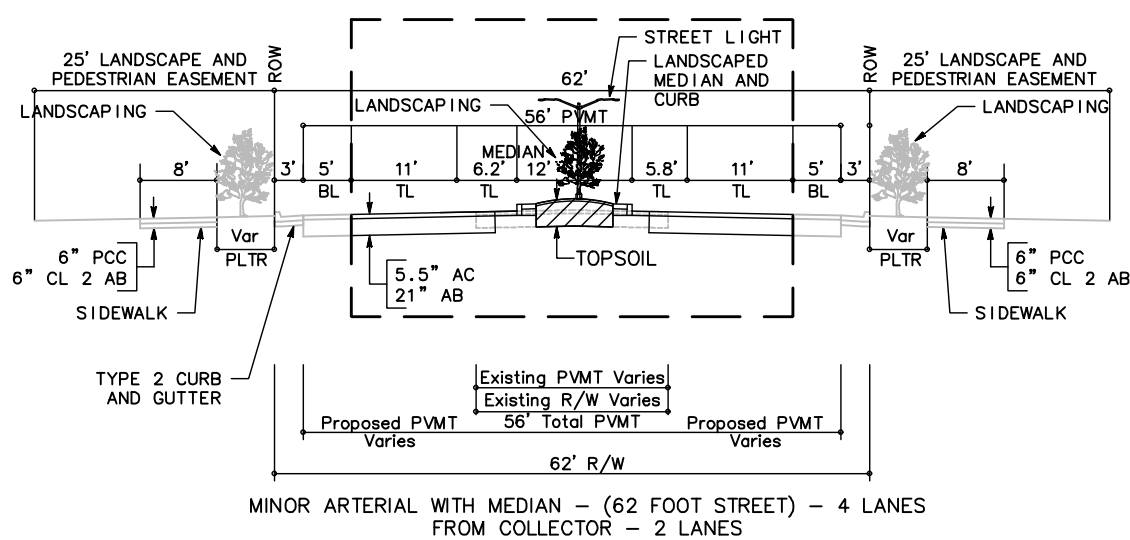
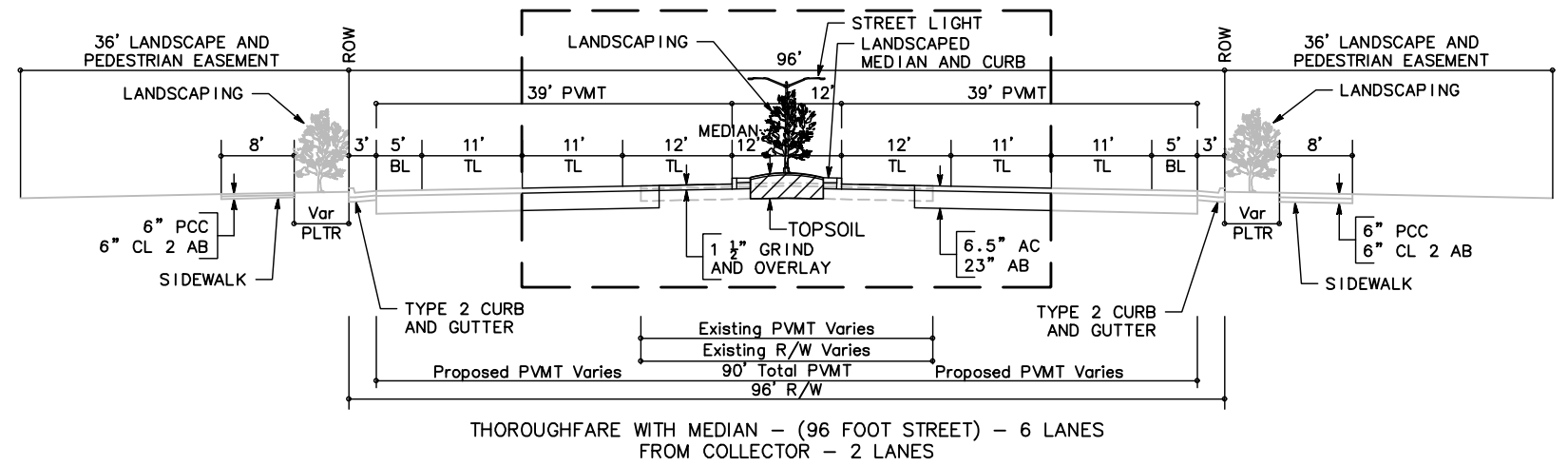
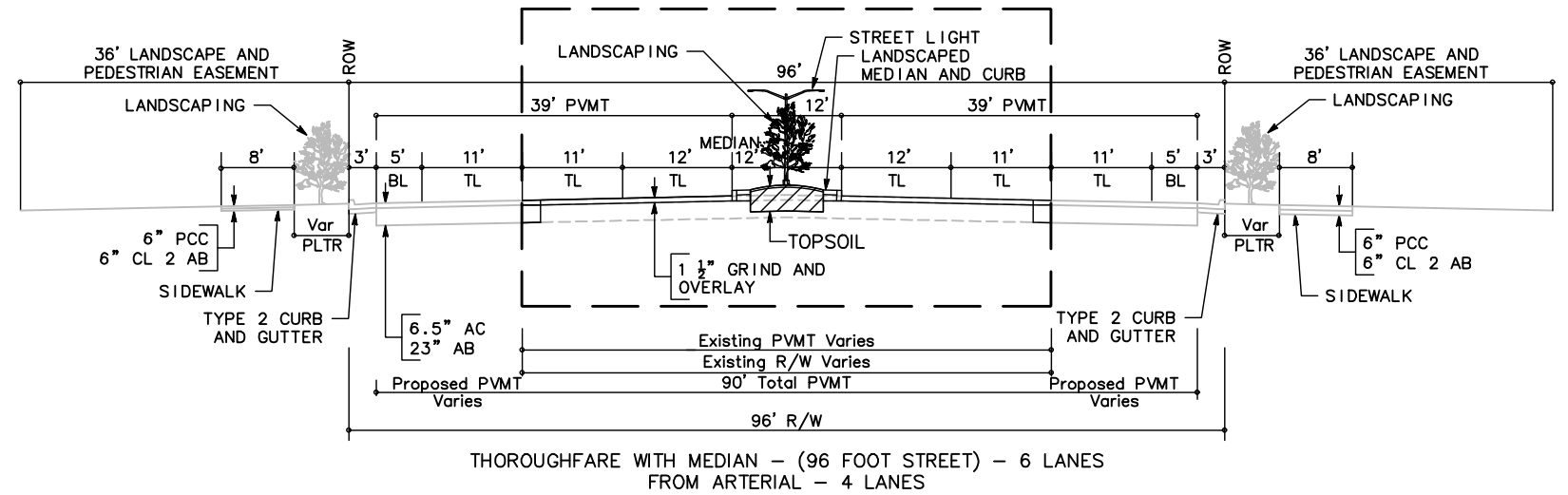
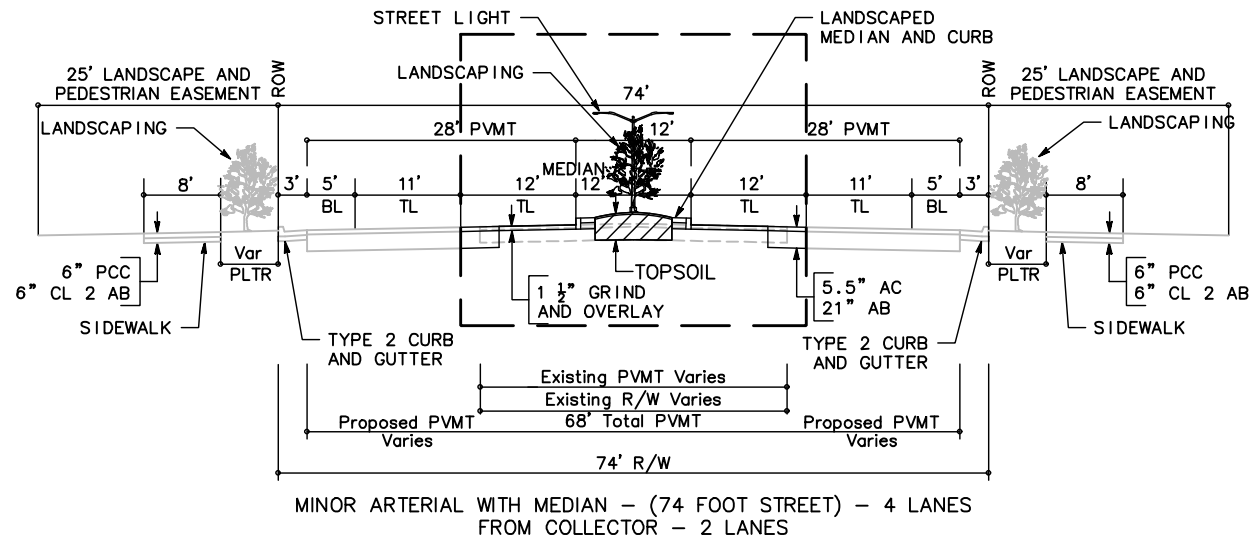
SCALE: 1" = 20'

**EG ROADWAY FEE PROGRAM  
TYPICAL ROADWAY CROSS SECTION  
SEPA ROADWAY & STRUCTURES STANDARDS**



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- PROPOSED PAVEMENT RECONSTRUCTION/REHAB IS BASED ON THE CITY OF ELK GROVE IMPROVEMENT STANDARDS AND CITY OF ELK GROVE STANDARD DRAWINGS (ST-1, ST-2, ST-3, ST-4). ASSUMED RECONSTRUCTION/REHAB SECTIONS:
  - PCI > 70: PAVEMENT IS IN GOOD CONDITION. WIDENING WILL INCLUDE 1 1/2" DEEP GRINDING AND PAVING FOR THE FULL WIDTH BETWEEN LIP OF GUTTERS.
  - PCI < 70: PAVEMENT IS IN FAIR TO POOR CONDITION. WIDENING WILL INCLUDE RECONSTRUCTION OF THE EXISTING PAVEMENT SECTION BASED ON THE PROPOSED PAVEMENT SECTIONS DESCRIBED IN NOTE 2 ABOVE.



Graphic Scale

ATTACHMENT B

SCALE: 1" = 20'

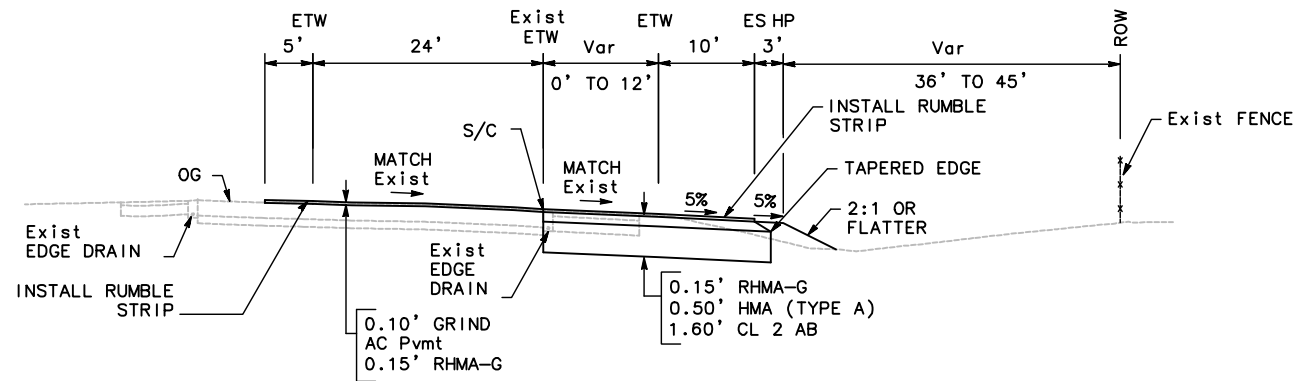
**ROADWAY MITIGATIONS  
WIDEN EXISTING ROADWAY  
KEEP EXISTING PAVEMENT  
RECONSTRUCT EXISTING POOR PAVEMENT**

**EG ROADWAY FEE PROGRAM  
TYPICAL ROADWAY CROSS SECTION  
ROADWAY WIDENING & RECONSTRUCTION**

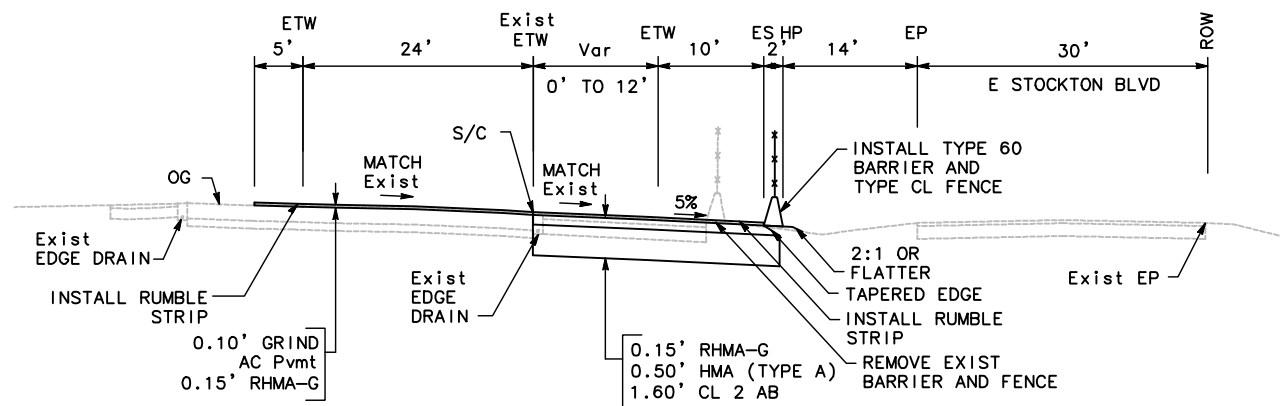


**NOTES:**

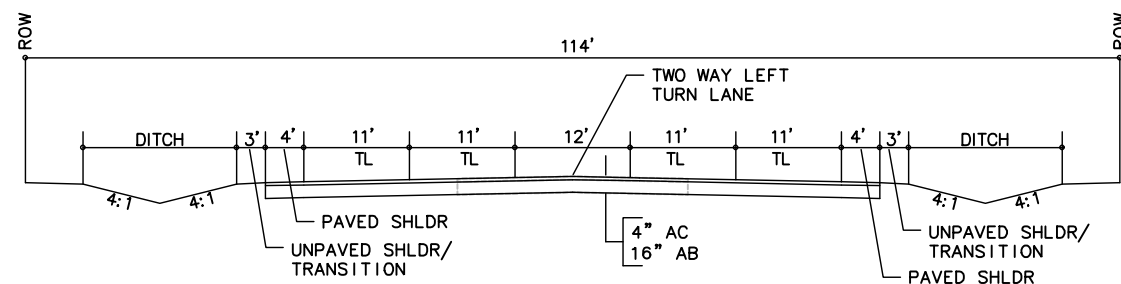
- ROAD CLASSIFICATIONS (COLLECTOR, MINOR ARTERIAL, AND MAJOR ARTERIAL) ARE BASED ON SECTION 4 OF THE CITY OF ELK GROVE IMPROVEMENT STANDARDS.
- PROPOSED PAVEMENT SECTION DEPTH IS BASED ON SECTION 4 TABLE 1 OF THE CITY OF ELK GROVE IMPROVEMENT STANDARDS (OCTOBER 2018). PROPOSED PAVEMENT SECTIONS:
  - COLLECTOR = 4" AC, 16" CL 2 AB
  - MINOR ARTERIAL = 5.5" AC, 21" CL 2 AB
  - MAJOR ARTERIAL = 6.5" AC, 23" CL 2 AB
- PROPOSED PAVEMENT RECONSTRUCTION/REHAB IS BASED ON THE CITY OF ELK GROVE IMPROVEMENT STANDARDS AND CITY OF ELK GROVE STANDARD DRAWINGS (ST-1, ST-2, ST-3, ST-4). ASSUMED RECONSTRUCTION/REHAB SECTIONS:
  - PCI > 70: PAVEMENT IS IN GOOD CONDITION. WIDENING WILL INCLUDE 1 1/2" DEEP GRINDING AND PAVING FOR THE FULL WIDTH OF THE ROADWAY.
  - PCI < 70: PAVEMENT IS IN FAIR TO POOR CONDITION. WIDENING WILL INCLUDE RECONSTRUCTION OF THE EXISTING PAVEMENT SECTION BASED ON THE PROPOSED PAVEMENT SECTIONS DESCRIBED IN NOTE 2 ABOVE.
- RELOCATE LIGHTING AND OVERHEAD SIGNS AS NECESSARY.



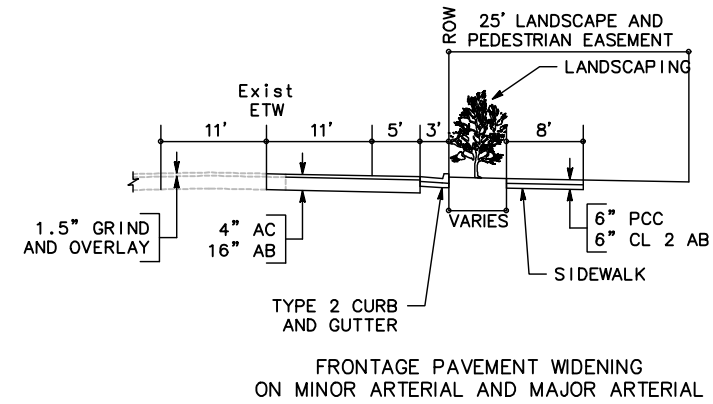
WIDEN FREEWAY FOR NEW AUX LANES



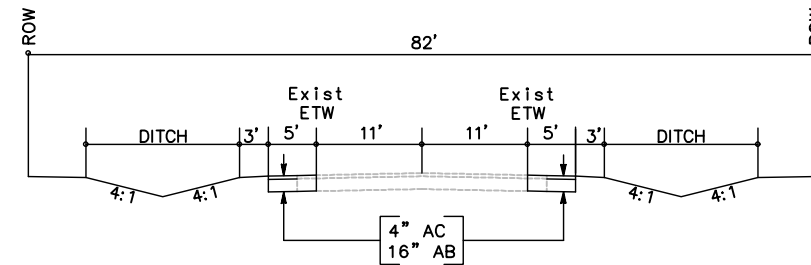
WIDEN FREEWAY FOR NEW AUX LANE WITH FRONTAGE ROAD



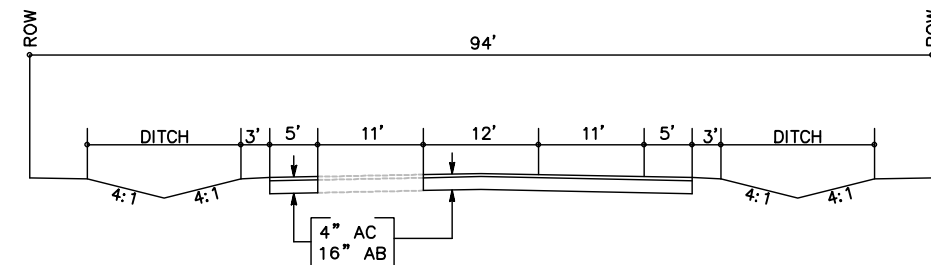
RURAL ROAD IMPROVEMENT STANDARD



FRONTAGE PAVEMENT WIDENING ON MINOR ARTERIAL AND MAJOR ARTERIAL



RURAL - ARTERIAL 2 LANE



RURAL - ARTERIAL 2 LANE + CENTER LANE / LEFT TURN LANE



Graphic Scale

ATTACHMENT B

SCALE: 1" = 20'

**EG ROADWAY FEE PROGRAM  
TYPICAL ROADWAY CROSS SECTION  
FRONTAGE, FREEWAY, RURAL, AUX LANES**

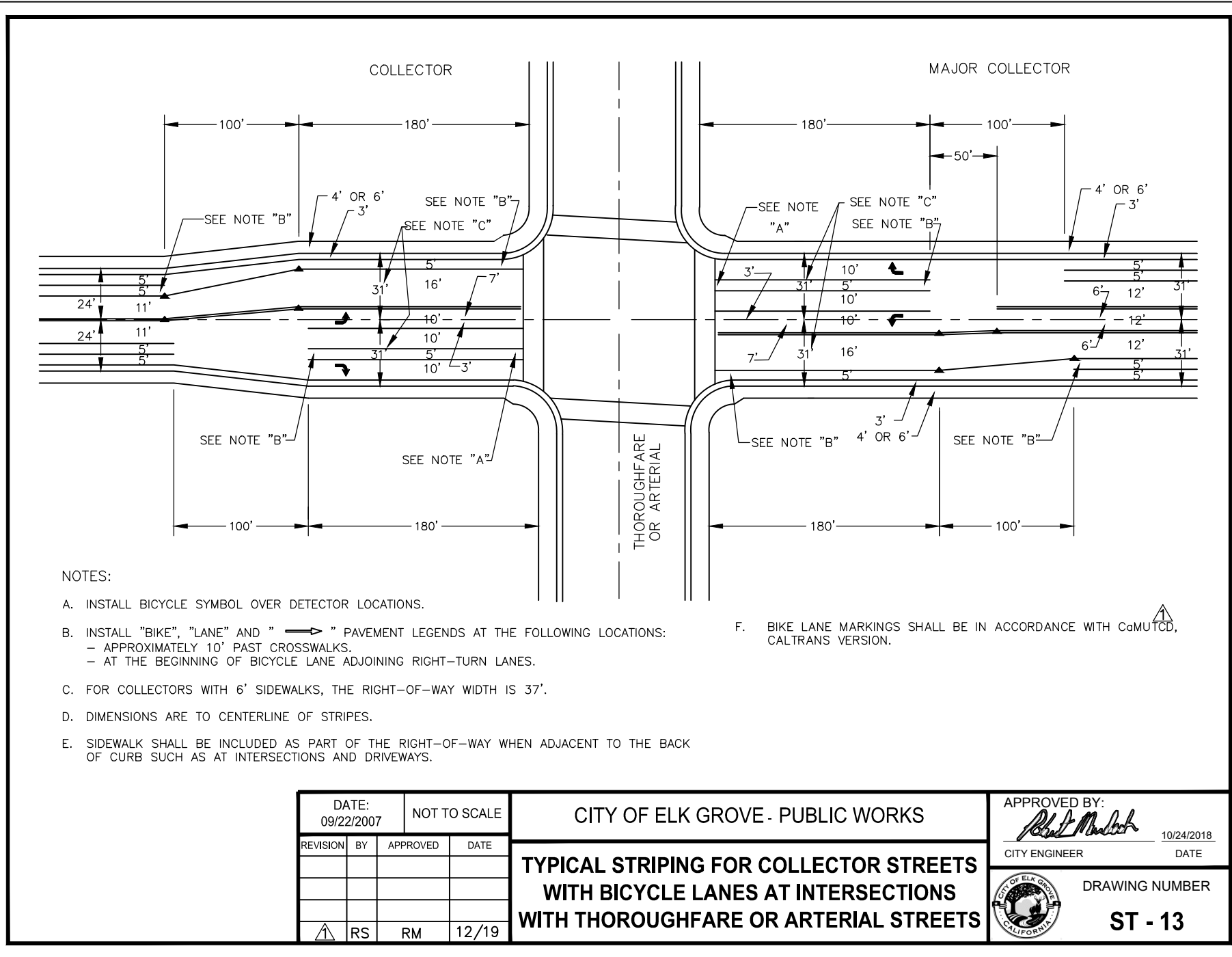


**MARK THOMAS**



ATTACHMENT C – CITY OF ELK GROVE STANDARD DRAWING






DATE: 09/22/2007		NOT TO SCALE	
REVISION	BY	APPROVED	DATE
▲	RS	RM	12/19

CITY OF ELK GROVE - PUBLIC WORKS

**TYPICAL STRIPING FOR COLLECTOR STREETS  
WITH BICYCLE LANES AT INTERSECTIONS  
WITH THOROUGHFARE OR ARTERIAL STREETS**

APPROVED BY:  
*Robert M. ...*  
CITY ENGINEER      10/24/2018  
DATE

DRAWING NUMBER  
**ST - 13**

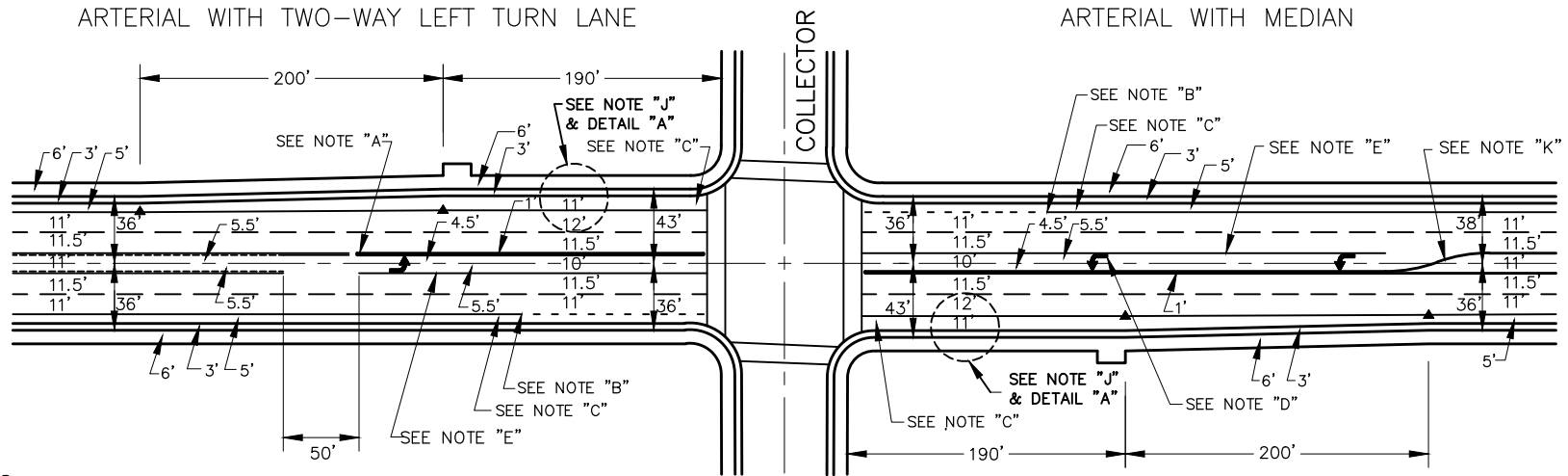






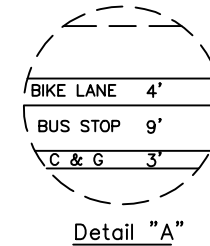
ARTERIAL WITH TWO-WAY LEFT TURN LANE

ARTERIAL WITH MEDIAN



NOTES:

- A. END OF RAISED MEDIAN MAY BE MOVED AS NECESSARY FOR DRIVEWAY LOCATIONS. SEE IMPROVEMENT STANDARD SECTION 4-10 (J)
- B. BIKE LANE STRIPING TO BE DASHED BEGINNING 120' FROM INTERSECTION.
- C. INSTALL "BIKE", "LANE", AND " → " PAVEMENT LEGENDS PER CoMUTCD AND CALTRANS STANDARD PLANS, AT THE FOLLOWING LOCATIONS:  
 - APPROXIMATELY 10' PAST CROSSWALKS;  
 - BEFORE START OF DASHED BICYCLE LANE STRIPING.
- D. DIRECTIONAL ARROWS ARE PROVIDED AT THE BEGINNING OF ALL TURN POCKETS. INSTALL ADDITIONAL LEFT-TURN ARROW MIDWAY IN THE LENGTH OF THE TURN LANE IF IT EXCEEDS 250'.
- E. LENGTH OF TURN POCKET IS TO BE SIZED ACCORDING TO TRAFFIC NEEDS. 180' MIN. SEE 3-10 (H) OF DEPARTMENT OF TRANSPORTATION DESIGN PRACTICE GUIDE.
- F. DIMENSIONS ARE TO CENTERLINE OF STRIPES.
- G. SHOULD DESIGN OF ROADWAY NOT INCLUDE BUS TURNOUTS, DESIGN OF INTERSECTIONS OF ARTERIAL & COLLECTOR STREETS SHALL CONFORM TO THE DETAIL ON DRAWING ST-12B
- H. ALL PAVEMENT MARKINGS & STRIPING PER CALTRANS STANDARD PLANS.
- I. SIDEWALK SHALL BE INCLUDED AS PART OF THE RIGHT-OF-WAY WHEN ADJACENT TO THE BACK OF CURB SUCH AS AT INTERSECTIONS AND DRIVEWAYS.
- J. IF THE DRIVEWAY, APPROVED BY PUBLIC WORKS, IS WITHIN THE EXPANDED INTERSECTION, ADDITIONAL 2 FEET RIGHT-OF-WAY WILL BE REQUIRED. SEE DETAIL "A".
- K. 90' BAY TAPER PER CALTRANS STANDARD PLANS.



- L. BIKE LANE MARKINGS SHALL BE IN ACCORDANCE WITH CoMUTCD, CALTRANS VERSION.

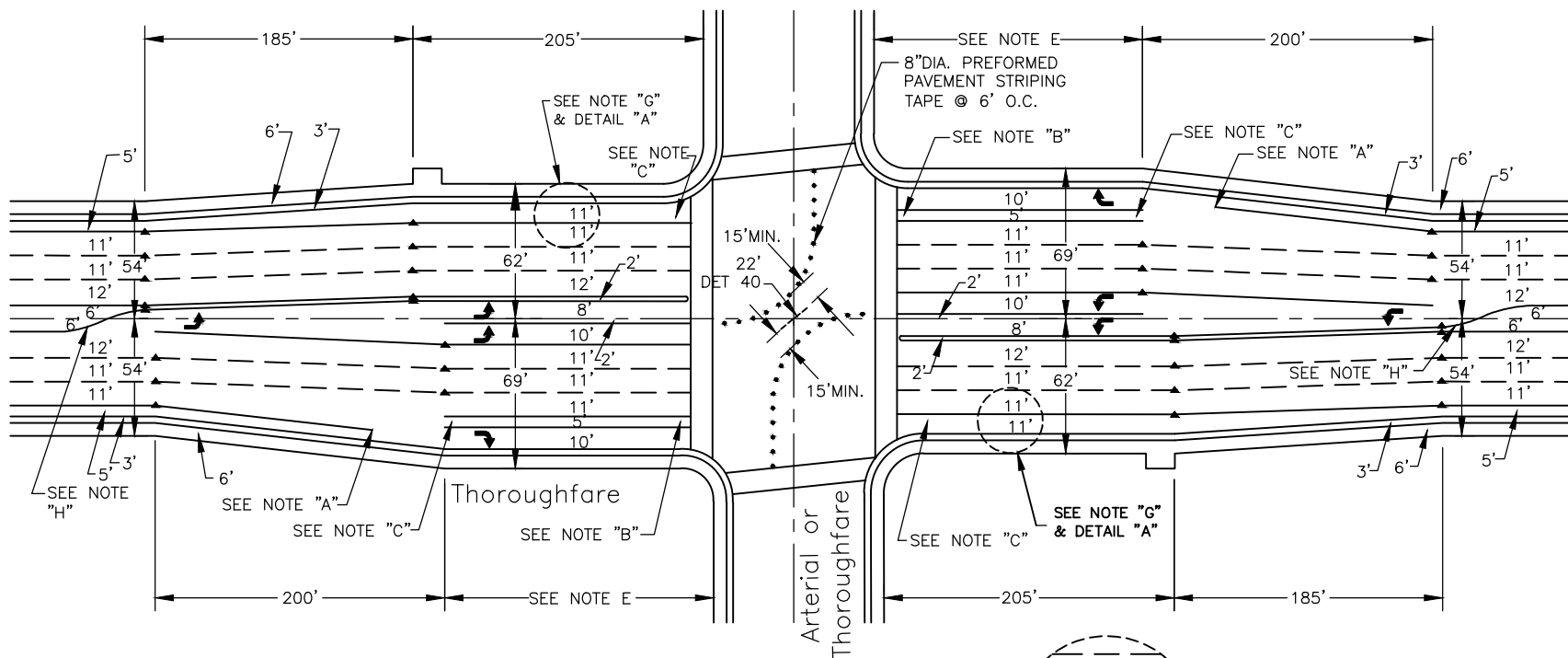
DATE: 09/22/2007		NOT TO SCALE	
REVISION	BY	APPROVED	DATE
▲	RS	RM	12/19

CITY OF ELK GROVE - PUBLIC WORKS

**TYPICAL STRIPING FOR  
ARTERIAL INTERSECTIONS  
WITH COLLECTORS**

APPROVED BY:  
*Robert M. ...*  
CITY ENGINEER 10/24/2018  
DATE

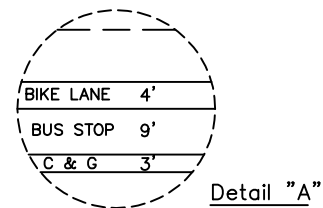
DRAWING NUMBER  
**ST - 14B**



**NOTES:**

- A. BIKE LANE STRIPE TO BE DISCONTINUED APPROXIMATELY 100' FROM RIGHT-TURN LANE AND RESUMED AT BEGINNING OF RIGHT-TURN ONLY LANE.
- B. INSTALL BICYCLE SYMBOL OVER DETECTOR LOCATIONS.
- C. INSTALL "BIKE", "LANE" AND " → " PAVEMENT LEGENDS AT THE FOLLOWING LOCATIONS:
  - APPROXIMATELY 10' PAST CROSSWALKS.
  - AT THE BEGINNING OF BICYCLE LANE ADJOINING RIGHT-TURN LANES.
- D. DIMENSIONS ARE TO CENTERLINE OF STRIPES.
- E. LENGTH OF APPROACH ADJACENT TO RIGHT TURN LANE SHALL BE: 200' APPROACHING A THOROUGHFARE / SPECIAL THOROUGHFARE. 190' APPROACHING AN ARTERIAL / PRIMARY ARTERIAL.
- F. SIDEWALK SHALL BE INCLUDED AS PART OF THE RIGHT-OF-WAY WHEN ADJACENT TO THE BACK OF CURB SUCH AS AT INTERSECTIONS AND DRIVEWAYS.

- G. IF THE DRIVEWAY, APPROVED BY PUBLIC WORKS, IS WITHIN THE EXPANDED INTERSECTION, ADDITIONAL 2 FEET RIGHT-OF-WAY BILL BE REQUIRED. SEE DETAIL "A".
- H. 90' BAY TAPER PER CALTRANS STANDARD PLANS.
- I. BIKE LANE MARKINGS SHALL BE IN ACCORDANCE WITH CaMUTCD.



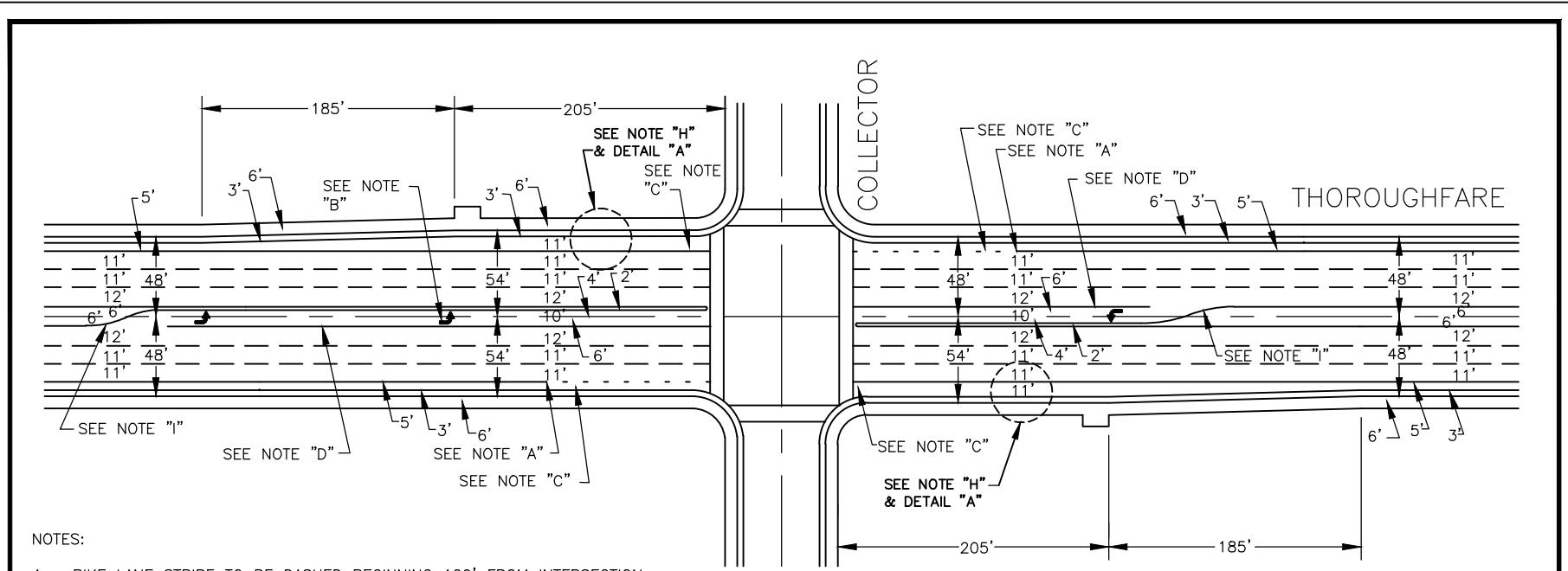
DATE: 09/22/2007		NOT TO SCALE	
REVISION	BY	APPROVED	DATE
▲	RS	RM	12/19

CITY OF ELK GROVE - PUBLIC WORKS

**TYPICAL STRIPING FOR THOROUGHFARE INTERSECTIONS WITH THOROUGHFARES OR ARTERIALS**

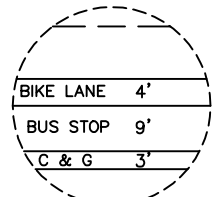
APPROVED BY:  
  
 CITY ENGINEER      10/24/2018      DATE

DRAWING NUMBER  
**ST - 15A**



NOTES:

- A. BIKE LANE STRIPE TO BE DASHED BEGINNING 120' FROM INTERSECTION.
- B. INSTALL ADDITIONAL LEFT TURN ARROW MIDWAY IN THE LENGTH OF THE TURN LANE IF IT EXCEEDS 250'.
- C. INSTALL "BIKE", "LANE" AND "→" PAVEMENT LEGENDS PER CaMUTCD AND CALTRANS STANDARD PLANS AT THE FOLLOWING LOCATIONS:
  - APPROXIMATELY 10' PAST CROSSWALKS;
  - BEFORE START OF DASHED BICYCLE LANE STRIPING.
- D. LENGTH OF TURN POCKET IS TO BE SIZED ACCORDING TO TRAFFIC NEEDS. 180' MIN. SEE 3-10 H OF TRANSPORTATION DIVISION DESIGN PRACTICE GUIDE. AND DIRECTIONAL ARROWS ARE PROVIDED AT THE BEGINNING OF ALL TURN POCKETS. IF POCKET IS LONGER THAN 100 FT. ADDITIONAL ARROWS SHALL BE PLACED AT THE END.
- E. DIMENSIONS ARE TO CENTERLINE OF STRIPES.
- F. ALL PAVEMENT MARKINGS & STRIPING PER CALTRANS STANDARD PLANS.
- G. SIDEWALK SHALL BE INCLUDED AS PART OF THE RIGHT-OF-WAY WHEN ADJACENT TO THE BACK OF CURB SUCH AS AT INTERSECTIONS AND DRIVEWAYS.
- H. IF THE DRIVEWAY, APPROVED BY PUBLIC WORKS, IS WITHIN THE EXPANDED INTERSECTION, ADDITIONAL 2 FEET RIGHT-OF-WAY WILL BE REQUIRED. SEE DETAIL "A".
- I. 90' BAY TAPER PER CALTRANS STANDARD PLANS.



Detail "A"

- J. BIKE LANE MARKINGS SHALL BE IN ACCORDANCE WITH CaMUTCD.

DATE: 09/22/2007		NOT TO SCALE	
REVISION	BY	APPROVED	DATE
▲	RS	RM	12/19

CITY OF ELK GROVE - PUBLIC WORKS

**TYPICAL STRIPING FOR THOROUGHFARE INTERSECTIONS WITH COLLECTORS**


APPROVED BY: *Robert M. ...* 10/24/2018

CITY ENGINEER DATE

---

DRAWING NUMBER

**ST - 15B**





ATTACHMENT D – UNIT COSTS DATA AND ANALYSIS



TABLE OF UNIT COSTS FOR ELK GROVE ROADWAY FEE ESTIMATE

	ITEM DESCRIPTION	UNIT	2020 COST
<b>1</b>	<b>EARTHWORK</b>		
1.1	ROADWAY EXCAVATION	CY	\$30.00
1.2	IMPORT FILL (GRADE SEPARATIONS ONLY)	CY	\$40.00
<b>2</b>	<b>DRAINAGE</b>		
2.1	MODIFYING EXISTING STORM DRAINAGE	LF	\$100.00
2.2	NEW STORM DRAIN LATERALS AND INLETS	N/A	INCLUDED IN 'MINOR ITEMS'
2.3	DRAINAGE (AUX LANE COSTS ONLY)	LS	SEE AUX LANE DETAILED ESTIMATES
<b>3</b>	<b>PAVEMENT</b>		
3.1	ASPHALT CONCRETE	TON	\$90.00
3.2	AGGREGATE BASE	CY	\$60.00
3.3	SIDEWALK	SF	\$12.00
3.4	CURB AND GUTTER	LF	\$45.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00
3.6	TEXTURED PAVING (ROUNDBOUT COSTS ONLY)	LF	\$17.00
3.7.1	THERMOPLASTIC PAVEMENT MARKINGS	LF	\$5.00
3.7.2	THERMOPLASTIC TRAFFIC STRIPE	LF	\$1.00
<b>4</b>	<b>MISCELLANEOUS</b>		
4.1	TRAFFIC SIGNAL	LS	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATIONS	LS	\$250,000.00
4.3	TRAFFIC SIGNAL REMOVAL (ROUNDBOUT COSTS ONLY)	LS	\$125,000.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00
4.5	FIBER OPTIC CABLE	LF	\$56.00
4.6	NETWORK SYSTEM EQUIPMENT	EA	\$15,000
4.7	LANDSCAPING	SF	\$10.00
4.8	SIGNING AND STRIPING (ROUNDBOUT COSTS ONLY)	LS	\$50,000.00
4.9	OVERHEAD SIGNS (AUX LANE COSTS ONLY)	EA	\$250,000.00
4.1	MIDWEST GUARDRAIL SYSTEM (AUX LANE COSTS ONLY)	LF	\$38.00
4.1.1	FENCE (TYPE CL-6) (AUX LANE COSTS ONLY)	LF	\$23.00
4.1.2	CONCRETE BARRIER (TYPE 60) WITH TYPE CL-6 FENCE (AUX LANE COSTS ONLY)	LF	\$110.00
4.1.3	REMOVE FENCE (AUX LANE COSTS ONLY)	LF	\$20.00
4.1.4	REMOVE BARRIER (AUX LANE COSTS ONLY)	LF	\$50.00
4.1.5	EMBANKMENT EARTHWORK (AUX LANE COSTS ONLY)	CY	\$15.00
4.1.6	CONSTRUCTION STAGING (AUX LANE COSTS ONLY)	LS	SEE AUX LANE DETAILED ESTIMATES
<b>5</b>	<b>MINOR ITEMS</b>		
5.1	GREENFIELD MINOR ITEMS	%	10%
5.2	DEVELOPED AREA MINOR ITEMS	%	10%
<b>6</b>	<b>STRUCTURES</b>		
6.1	BRIDGES (Slab on Pile)	SF	\$275
6.2	BOX CULVERTS	SF	\$200
6.3	CULVERTS (INTERSECTION COSTS)	LF	\$500
6.4	RETAINING WALL (INTERSECTION COSTS)	SF	\$150
6.5	AT-GRADE RAILROAD CROSSING DECOMMISSION	LS	[Estimated per location, see Detailed Estimates]
6.6	GRADE SEPARATED RAILROAD CROSSING*	LS	[Estimated per location, see Detailed Estimates]
<b>7</b>	<b>CONTINGENCY</b>	%	20%
<b>8</b>	<b>ENGINEERING &amp; MANAGEMENT</b>		
8.1	ENGINEERING AND SURVEYING	%	15.0%
8.2	STAKING, PERMITTING, AND INSPECTION	%	10.0%
8.3	CALTRANS COORDINATION (ONLY ON APPLICABLE ESTIMATES)	%	3.0%
<b>9</b>	<b>RIGHT-OF-WAY &amp; EASEMENTS</b>		
9.1.1	GREENFIELD RIGHT-OF-WAY	SF	\$2.25
9.1.2	DEVELOPED AREA RIGHT-OF-WAY	SF	\$9.25
9.2.1	GREENFIELD EASEMENT	SF	\$2.25
9.2.2	DEVELOPED AREA EASEMENT	SF	\$9.25
9.3.1	GREENFIELD ACQUISITION SOFT COST (LENGTH OF PARCEL LINE)	LF	\$40
9.3.2	DEVELOPED AREA ACQUISITION SOFT COST (LENGTH OF PARCEL LINE)	LF	\$120
9.4	SEVERANCE DAMAGES	LS	[Estimated per location, see Detailed Estimates]
	R/W CONTINGENCY	%	10%
<b>10</b>	<b>UTILITY RELOCATION</b>	%	2% - 20%
<b>11</b>	<b>ENVIRONMENTAL MITIGATION</b>	%	3% - 5%
<b>LEGEND:</b> CY = Cubic Yard, LF = Linear Feet, SF = Square Feet, % = Percent of Total Project Cost INT = Intersection, EA = Each, LS = Lump Sum			

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

1.1		ROADWAY EXCAVATION			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WFL003 Engineer's Estimate - SCWA Frontage Improvement Project		Estimated Unit Cost	\$ 18.00	1200	CY
	2017	Teichert & Son, Inc	\$ 35.00	1200	CY
	2017	Granite Construction Company	\$ 36.00	1200	CY
	2017	Central Valley Engineering	\$ 48.30	1200	CY
	-	Western Engineering Contractors	\$ 30.00	1200	CY
	-	Martin Brothers	\$ 68.00	1200	CY
			Estimated Unit Cost	\$ 18.00	1200
WTR026/WTR029 (Item #26)		Estimated Unit Cost	\$ 15.00	16700	CY
	2017	DeSilva Gates Construction	\$ 28.00	16700	CY
	2017	George Reed	\$ 2.00	16700	CY
	2017	Teichert	\$ 8.00	16700	CY
		Godfellow Top Grade	\$ 4.00	16700	CY
		Bay Cities Paving and Grading, Inc	\$ 35.00	16700	CY
		Martin Brothers Construction	\$ 25.00	16700	CY
		Lund Construction	\$ 20.00	16700	CY
WTR026/WTR029 (Item #105)		Estimated Unit Cost	\$ 15.00	11200	CY
	2017	DeSilva Gates Construction	\$ 28.00	11200	CY
	2017	George Reed	\$ 2.00	11200	CY
	2017	Teichert	\$ 13.00	11200	CY
		Godfellow Top Grade	\$ 5.00	11200	CY
		Bay Cities Paving and Grading, Inc	\$ 38.00	11200	CY
		Martin Brothers Construction	\$ 35.00	11200	CY
		Lund Construction	\$ 20.00	11200	CY
WTR026/WTR029 (Item #187)		Estimated Unit Cost	\$ 15.00	2200	CY
	2017	DeSilva Gates Construction	\$ 28.00	2200	CY
	2017	George Reed	\$ 40.00	2200	CY
	2017	Teichert	\$ 20.00	2200	CY
		Godfellow Top Grade	\$ 30.00	2200	CY
		Bay Cities Paving and Grading, Inc	\$ 35.00	2200	CY
		Martin Brothers Construction	\$ 53.00	2200	CY
		Lund Construction	\$ 20.00	2200	CY
PTO137	2018	Granite Rock Company	\$ 3.00	11050	CY
	2018	Teichert Construction	\$ 25.00	11050	CY
		George Reed	\$ 55.00	11050	CY
		Martin Brothers	\$ 40.00	11050	CY
PTO0138	2016	Martin Brothers Construction	\$ 51.00	6260	CY
	2016	Granite Construction Company	\$ 36.00	6260	CY
	2016	Teichert Construction	\$ 30.00	6260	CY
PTO0138 Part 2	2016	Estimated Unit Cost	\$ 25.00	6260	CY
	2016	Martin Brothers Construction	\$ 21.00	6260	CY
	2016	Granite Construction Company	\$ 21.00	6260	CY
	2016	Teichert Construction	\$ 75.00	6260	CY
WPR010	2018	Granite Construction	\$ 42.00	4000	CY
	2018	GraniteRock	\$ 50.00	4000	CY
	2018	Teichert Construction	\$ 45.00	4000	CY
		Martin Brothers	\$ 60.00	4000	CY
		Western Engineering	\$ 74.00	4000	CY
WPR016 - Kent Street and Dino Drive		Estimate Unit Cost	\$ 18.00	1200	CY
	2017	Teichert & Sons, Inc	\$ 35.00	1200	CY
	2017	Granite Construction Company	\$ 36.00	1200	CY
	2017	Central Valley Engineering	\$ 48.30	1200	CY

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

		Western Engineering Contractors	\$ 30.00	1200	CY
		Martin Brothers	\$ 68.00	1200	CY
WTR026 - Big Horn Boulevard Extension Bilby Road Extension		Estimate Unit Cost	\$ 15.00	16700	CY
	2017	DeSilva Gates Construction	\$ 28.00	16700	CY
	2017	George Reed	\$ 2.00	16700	CY
	2017	Teichert	\$ 8.00	16700	CY
		Goodfellow Top Grade	\$ 4.00	16700	CY
		Bay Cities Paving and Grading, Inc	\$ 35.00	16700	CY
		Martin Brothers Construction	\$ 25.00	16700	CY
		Lund Construction	\$ 20.00	16700	CY
		Granite	\$ 10.00	16700	CY
	WTR029 - Big Horn Boulevard Extension Bilby Road Extension		Estimate Unit Cost	\$ 15.00	11200
2017		DeSilva Gates Construction	\$ 28.00	11200	CY
2017		George Reed	\$ 2.00	11200	CY
2017		Teichert	\$ 13.00	11200	CY
		Goodfellow Top Grade	\$ 5.00	11200	CY
		Bay Cities Paving and Grading, Inc	\$ 38.00	11200	CY
		Martin Brothers Construction	\$ 35.00	11200	CY
		Lund Construction	\$ 20.00	11200	CY
		Granite	\$ 14.00	11200	CY
WTR029 - Big Horn Boulevard Extension Bilby Road Extension (Subtotal)		Estimate Unit Cost	\$ 15.00	2200	CY
	2017	DeSilva Gates Construction	\$ 28.00	2200	CY
	2017	George Reed	\$ 40.00	2200	CY
	2017	Teichert	\$ 20.00	2200	CY
		Goodfellow Top Grade	\$ 30.00	2200	CY
		Bay Cities Paving and Grading, Inc	\$ 35.00	2200	CY
		Martin Brothers Construction	\$ 53.00	2200	CY
		Lund Construction	\$ 20.00	2200	CY
		Granite	\$ 40.00	2200	CY
Placer County Dowd Road at Coon Creek	2019		\$ 35.00	1400	CY
Rancho Cordova - Folsom Blvd Streetscape Phase 5	2019		\$ 65.00	3530	CY
Sacramento Broadway Complete Streets	2019		\$ 100.00	2650	CY
Sacramento - Downtown Mobility (5th St Roadway)	2019		\$ 65.00	8525	CY
Sacramento - Downtown Mobility (I St Roadway)	2019		\$ 65.00	4310	CY
West Sacramento - West Capitol Ave Rd Rehabilitation (96%)	2019		\$ 65.00	8133	CY
Chico - SR32 Widening	2010		\$ 15.00	38000	CY
Davis - Richards Blvd & I-80 (65% Estimate)	2018		\$ 15.00	18100	CY
Manteca - Main Street Pavement Improvements (Alt 2)	2019		\$ 65.00	1780	CY
Davis - L Street/Covell Boulevard	2016		\$ 90.00	1210	CY
Manteca - SR 120/Union Road Interchange	2019		\$ 25.00	68680	CY
Rancho Cordova - Folsom Blvd Streetscape Phase 4	2018		\$ 65.00	3710	CY
Rancho Cordova - Zinfandel Complex	2019		\$ 80.00	5928	CY
Rancho Cordova - Chase Drive Corridor	2019		\$ 150.00	2250	CY
Roseville- Industrial and Oak Ridge Bridge Replacement	2015		\$ 35.00	2145	CY

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

Roseville - Downtown Bridges and Trail	2018		\$ 65.00	2167	CY
Roseville - Washington Andora Widening (w/Cycle Track and Multi-Use Path)	2019		\$ 50.00	9500	CY
Sacramento - Hazel Interchange Alt 1	2016		\$ 30.00	45220	CY
Sacramento - Watt Ave & HWY 50	2019		\$ 26.80	26160	CY
Sacramento - Metro Parkway Interchange Improvements	2018		\$ 30.00	28800	CY
Sacramento - Ramona Extention	2017		\$ 35.00	6724	CY
Sacramento - Rio Linda Bridge Replacement	2018		\$ 85.00	1930	CY
Sacramento - I Street (35%)	2019		\$ 50.00	7590	CY
Stockton 15122 - Hammer Lane Phase 3B	2016	Engineer's Estimate	\$ 35.00	3940	CY
West Valley - Silva Valley Pkwy	2013		\$ 15.00	231000	CY

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price

Average	\$ 34.21	
Standard Deviation	\$ 23.90	
Average Range ± 1 SD	\$ 58.11	\$ 10.30
Average within 1 SD	\$ 29.80	



2.1		STORM DRAIN MANHOLE			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WTL005 - Storm Drain Manhole	2018	Estimated Unit Cost	\$ 3,500.00	1	LS
	2018	Martin Brothers Construction	\$ 6,000.00	1	LS
	2018	Sierra National Construction	\$ 6,900.00	1	LS
	2018	Bridgeway Civil Constructors Inc	\$ 3,105.00	1	LS

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 4,876.25	
Standard Deviation	\$ 1,860.98	
Average Range ± 1 SD	\$ 6,737.23	\$ 3,015.27
Average within 1 SD	\$ 4,201.67	

2.2		RECONSTRUCT STORM DRAIN MANHOLE			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WTL005 - Reconstruct Storm Drain Manhole	2018	Estimated Unit Cost	\$ 5,000.00	1	LS
	2018	Martin Brothers Construction	\$ 6,000.00	1	LS
	2018	Bridgeway Civil Constructors Inc	\$ 2,241.00	1	LS

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 4,413.67	
Standard Deviation	\$ 1,946.88	
Average Range ± 1 SD	\$ 6,360.55	\$ 2,466.78
Average within 1 SD	\$ 5,500.00	

2.3		STORM DRAIN MANHOLE - 36 INCH			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WTR029 - Big Horn Boulevard Extension Bilby Road Extension - 36" Storm Drain Manhole		Estimate Unit Cost	\$ 4,000.00	1	EA
	2017	DeSilva Gates Construction	\$ 5,000.00	1	EA
	2017	George Reed	\$ 7,800.00	1	EA
	2017	Teichert	\$ 5,500.00	1	EA
		Goodfellow Top Grade	\$ 7,000.00	1	EA
		Bay Cities Paving and Grading, Inc	\$ 8,000.00	1	EA
		Martin Brothers Construction	\$ 7,250.00	1	EA
		Lund Construction	\$ 5,000.00	1	EA
		Granite	\$ 8,900.00	1	EA

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 6,494.44	
Standard Deviation	\$ 1,668.17	
Average Range ± 1 SD	\$ 8,162.61	\$ 4,826.28
Average within 1 SD	\$ 6,507.14	

2.4		STORM DRAIN MANHOLE - 48 INCH			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WDR023 - North Camden Drive Storm Drain - Storm Drain Manhole 48 Inch		Estimate Unit Cost	\$ 8,500.00	1	EA
	2019	Mozingo, Inc	\$ 9,500.00	1	EA
	2019	McGuire and Hester	\$ 10,000.00	1	EA
	2019	Martin Engineering, Inc	\$ 12,000.00	1	EA
		Sierra National Construction	\$ 8,950.00	1	EA
		C.E. Cox	\$ 8,000.00	1	EA
		Northern Pacific Corp	\$ 15,000.00	1	EA
		California Trenchless, Inc	\$ 8,000.00	1	EA
WTR026 - Big Horn Boulevard Extension Bilby Road Extension - 48" Storm Drain Manhole		Estimate Unit Cost	\$ 5,000.00	5	EA
	2017	DeSilva Gates Construction	\$ 6,000.00	5	EA
	2017	George Reed	\$ 7,300.00	5	EA
	2017	Teichert	\$ 6,000.00	5	EA
		Goodfellow Top Grade	\$ 8,000.00	5	EA
		Bay Cities Paving and Grading, Inc	\$ 7,400.00	5	EA
		Martin Brothers Construction	\$ 6,700.00	5	EA
		Lund Construction	\$ 6,500.00	5	EA
WTR029 - Big Horn Boulevard Extension Bilby Road Extension - 48" Storm Drain Manhole		Estimate Unit Cost	\$ 5,000.00	3	EA
	2017	DeSilva Gates Construction	\$ 6,000.00	3	EA
	2017	George Reed	\$ 7,000.00	3	EA
	2017	Teichert	\$ 18,000.00	3	EA
		Goodfellow Top Grade	\$ 9,000.00	3	EA
		Bay Cities Paving and Grading, Inc	\$ 7,000.00	3	EA
		Martin Brothers Construction	\$ 19,200.00	3	EA
		Lund Construction	\$ 6,500.00	3	EA
Roseville - Industrial and Oak Ridge Bridge Replacement - 48" Storm Drain Manhole	2015		\$ 5,000.00	3	EA

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 8,694.44	
Standard Deviation	\$ 3,610.89	
Average Range ± 1 SD	\$ 12,305.33	\$ 5,083.55
Average within 1 SD	\$ 7,978.57	

2.5		STORM DRAIN MANHOLE - 60 INCH			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WDR023 - North Camden Drive Storm Drain - Storm Drain Manhole 60 Inch		Estimate Unit Cost	\$ 15,000.00	2	EA
	2019	Mozingo, Inc	\$ 13,500.00	2	EA
	2019	McGuire and Hester	\$ 14,000.00	2	EA
	2019	Martin Engineering, Inc	\$ 18,500.00	2	EA
		Sierra National Construction	\$ 10,050.00	2	EA
		C.E. Cox	\$ 11,000.00	2	EA
		Northern Pacific Corp	\$ 20,500.00	2	EA
		California Trenchless, Inc	\$ 10,000.00	2	EA
WTR029 - Big Horn Boulevard Extension Bilby Road Extension - 60" Storm Drain Manhole		Estimate Unit Cost	\$ 6,500.00	1	EA
	2017	DeSilva Gates Construction	\$ 10,000.00	1	EA
	2017	George Reed	\$ 14,500.00	1	EA
	2017	Teichert	\$ 9,600.00	1	EA
		Goodfellow Top Grade	\$ 30,000.00	1	EA
		Bay Cities Paving and Grading, Inc	\$ 11,500.00	1	EA
		Martin Brothers Construction	\$ 10,000.00	1	EA
		Lund Construction	\$ 7,000.00	1	EA
	Granite	\$ 16,000.00	1	EA	

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 13,391.18	
Standard Deviation	\$ 5,707.24	
Average Range ± 1 SD	\$ 19,098.42	\$ 7,683.94
Average within 1 SD	\$ 12,588.46	

2.6		STORM DRAIN MANHOLE - 72 INCH			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WDR023 - North Camden Drive Storm Drain - Storm Drain Manhole 72 Inch		Estimate Unit Cost	\$ 22,500.00	1	EA
	2019	Mozingo, Inc	\$ 19,900.00	1	EA
	2019	McGuire and Hester	\$ 17,000.00	1	EA
	2019	Martin Engineering, Inc	\$ 19,000.00	1	EA
		Sierra National Construction	\$ 12,100.00	1	EA
		C.E. Cox	\$ 14,000.00	1	EA
		Northern Pacific Corp	\$ 24,500.00	1	EA
		California Trenchless, Inc	\$ 12,000.00	1	EA

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 17,625.00	
Standard Deviation	\$ 4,687.29	
Average Range ± 1 SD	\$ 22,312.29	\$ 12,937.71
Average within 1 SD	\$ 17,475.00	

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

3.1	HOT MIX ASPHALT (TYPE A)				
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
PTO0138	2016	Martin Brothers Construction	\$ 114.00	3320	Ton
	2016	Granite Construction Company	\$ 100.00	3320	Ton
	2016	Teichert Construction	\$ 125.00	3320	Ton
PTO0138 Part 2	2016	Estimated Unit Cost	\$ 90.00	3320	Ton
	2016	Martin Brothers Construction	\$ 114.00	3320	Ton
	2016	Granite Construction Company	\$ 90.00	3320	Ton
	2016	Teichert Construction	\$ 125.00	3320	Ton
WPR010	2018	Granite Construction	\$ 80.00	4400	Ton
	2018	GraniteRock	\$ 75.00	4400	Ton
	2018	Teichert Construction	\$ 85.00	4400	Ton
		Martin Brothers	\$ 119.00	4400	Ton
		Western Engineering	\$ 98.00	4400	Ton
		Estimate Unit Cost	\$ 80.00	9000	Ton
WTR026 - Big Horn Boulevard Extension Bilby Road Extension	2017	DeSilva Gates Construction	\$ 80.00	9000	Ton
	2017	George Reed	\$ 95.00	9000	Ton
	2017	Teichert	\$ 65.00	9000	Ton
		Goodfellow Top Grade	\$ 70.00	9000	Ton
		Bay Cities Paving and Grading, Inc	\$ 70.00	9000	Ton
		Martin Brothers Construction	\$ 115.00	9000	Ton
		Lund Construction	\$ 90.00	9000	Ton
		Granite	\$ 75.00	9000	Ton
		Estimate Unit Cost	\$ 80.00	10000	Ton
WTR029 - Big Horn Boulevard Extension Bilby Road Extension	2017	DeSilva Gates Construction	\$ 80.00	10000	Ton
	2017	George Reed	\$ 95.00	10000	Ton
	2017	Teichert	\$ 65.00	10000	Ton
		Goodfellow Top Grade	\$ 72.00	10000	Ton
		Bay Cities Paving and Grading, Inc	\$ 71.50	10000	Ton
		Martin Brothers Construction	\$ 120.00	10000	Ton
		Lund Construction	\$ 90.00	10000	Ton
		Granite	\$ 75.00	10000	Ton
		Estimate Unit Cost	\$ 80.00	2400	Ton
WTR029 - Big Horn Boulevard Extension Bilby Road Extension (Subtotal)	2017	DeSilva Gates Construction	\$ 80.00	2400	Ton
	2017	George Reed	\$ 70.00	2400	Ton
	2017	Teichert	\$ 66.00	2400	Ton
		Goodfellow Top Grade	\$ 72.00	2400	Ton
		Bay Cities Paving and Grading, Inc	\$ 76.00	2400	Ton
		Martin Brothers Construction	\$ 140.00	2400	Ton
		Lund Construction	\$ 90.00	2400	Ton
		Granite	\$ 80.00	2400	Ton
Woodland East Main Street	2019		\$ 135.00	9212	Ton
Woodland West Main Street	2019		\$ 110.00	13655	Ton
West Sacramento - West Capitol Ave Rd Rehabilitation (96%)	2019		\$ 95.00	16870	Ton
Davis - Richards Blvd & I-80 (65% Estimate)	2018		\$ 80.00	7270	Ton

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

Napa - Imola Avenue Pocket Paving and ADA Ramp Project	2019		\$ 120.00	7100	Ton
Manteca - SR 120/Union Road Interchange	2019		\$ 120.00	25373	Ton
Rancho Cordova - Folsom Blvd Streetscape Phase 4	2018		\$ 180.00	3730	Ton
Rancho Cordova - Zinfandel Complex	2019		\$ 120.00	3957	Ton
Roseville - Industrial and Oak Ridge Bridge Replacement	2015		\$ 85.00	3165	Ton
Sacramento - Hazel Interchange Alt 1	2016		\$ 85.00	31955	Ton
Sacramento - Watt Ave & HWY 50	2019		\$ 99.80	28330	Ton
Sacramento - Metro Parkway Interchange Improvements	2018		\$ 90.00	26500	Ton
Sacramento - Ramona Extention	2017		\$ 120.00	2884	Ton
Sacramento - Rio Linda Bridge Replacement	2018		\$ 120.00	3570	Ton
Sacramento - I Street (35%)	2019		\$ 100.00	7825	Ton
Stockton 15122 - Hammer Lane	2016		\$ 90.00	9060	Ton
Chico - SR32 Widening	2010		\$ 60.00	33400	Ton
OM1906	2019		\$ 196.00	2100	Ton
WAC014	2019		\$ 27.00	2120	Ton
PT0137	2018		\$ 107.00	3044	Ton

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price

Average	\$ 94.87	
Standard Deviation	\$ 27.79	
Average Range ± 1 SD	\$ 122.66	\$ 67.08
Average within 1 SD	\$ 91.94	

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

3.2	AGGREGATE BASE				
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
PTO137	2018	Granite Rock Company	\$ 50.00	7040	CY
	2018	Teichert Construction	\$ 45.00	7040	CY
		George Reed	\$ 70.00	7040	CY
		Martin Brothers	\$ 110.00	7040	CY
PTO0138	2016	Martin Brothers Construction	\$ 71.00	5110	CY
	2016	Granite Construction Company	\$ 72.00	5110	CY
	2016	Teichert Construction	\$ 65.00	5110	CY
PTO0138 Part 2	2016	Estimated Unit Cost	\$ 50.00	5110	CY
	2016	Martin Brothers Construction	\$ 73.00	5110	CY
	2016	Granite Construction Company	\$ 66.00	5110	CY
	2016	Teichert Construction	\$ 65.00	5110	CY
WTR026 - Big Horn Boulevard Extension Bilby Road Extension		Estimate Unit Cost	\$ 40.00	4300	CY
	2017	DeSilva Gates Construction	\$ 60.00	4300	CY
	2017	George Reed	\$ 75.00	4300	CY
	2017	Teichert	\$ 40.00	4300	CY
		Goodfellow Top Grade	\$ 55.00	4300	CY
		Bay Cities Paving and Grading, Inc	\$ 70.00	4300	CY
		Martin Brothers Construction	\$ 150.00	4300	CY
		Lund Construction	\$ 61.00	4300	CY
		Granite	\$ 64.00	4300	CY
WTR029 - Big Horn Boulevard Extension Bilby Road Extension (Subtotal)		Estimate Unit Cost	\$ 40.00	1200	CY
	2017	DeSilva Gates Construction	\$ 60.00	1200	CY
	2017	George Reed	\$ 50.00	1200	CY
	2017	Teichert	\$ 47.00	1200	CY
		Goodfellow Top Grade	\$ 55.00	1200	CY
		Bay Cities Paving and Grading, Inc	\$ 72.00	1200	CY
		Martin Brothers Construction	\$ 174.00	1200	CY
		Lund Construction	\$ 61.00	1200	CY
	Granite	\$ 65.00	1200	CY	
Woodland West Main Street	2019		\$ 100.00	2360	CY
Placer County Dowd Road at Coon Creek	2019		\$ 85.00	1660	CY
Sacramento Broadway Complete Streets	2019		\$ 80.00	2970	CY
West Sacramento - West Capitol Ave Rd Rehabilitation (96%)	2019		\$ 70.00	1310	CY
Chico - SR32 Widening	2010		\$ 50.00	33300	CY
Chico 0253 Southgate Interchange			\$ 55.00	25700	CY
Davis - Richards Blvd & I-80 (65% Estimate)	2018		\$ 60.00	26550	CY

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

Elk Grove - Laguna Creek Trail and Bruceville Road	2019		\$ 105.00	2542	CY
Manteca - SR 120/Union Road Interchange	2019		\$ 60.00	24674	CY
Rancho Cordova - Folsom Blvd Streetscape Phase 4	2018		\$ 120.00	2240	CY
Rancho Cordova - Zinfandel Complex	2019		\$ 60.00	3955	CY
Roseville - Industrial and Oak Ridge Bridge Replacement	2015		\$ 45.00	2470	CY
Roseville - Washington Andora Widening (w/Cycle Track and Multi-Use Path)	2019		\$ 75.00	1750	CY
Sacramento - Hazel Interchange Alt 1	2016		\$ 50.00	44215	CY
Sacramento - Watt Ave & HWY 50	2019		\$ 61.20	39240	CY
Sacramento - Metro Parkway Interchange Improvements	2018		\$ 40.00	21200	CY
Sacramento - Ramona Extention	2017		\$ 50.00	5895	CY
Sacramento - Rio Linda Bridge Replacement	2018		\$ 85.00	3170	CY
Sacramento - I Street (35%)	2019		\$ 65.00	6870	CY
West Valley - Silva Valley Pkwy	2013		\$ 90.00	35000	CY

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 69.02	
Standard Deviation	\$ 26.52	
Average Range ± 1 SD	\$ 95.54	\$ 42.50
Average within 1 SD	\$ 63.16	

3.3		SIDEWALK			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WFL003 Engineer's Estimate - SCWA Frontage Improvement Project - PCC Sidewalk	2018	Estimated Unit Cost	\$ 24.00	3400	SF
	2018	Reyre Construction	\$ 12.50	3400	SF
	2018	Sauren Construction and Electric	\$ 12.17	3400	SF
	2018	R&R Pacific Construction	\$ 9.50	3400	SF
	2018	B&M Builders Inc	\$ 12.00	3400	SF
	2018	Martin General Engineering Inc	\$ 11.00	3400	SF
	2018	Biondi Paving Inc	\$ 10.50	3400	SF
	2018	Parker Landscape Dev Inc	\$ 16.60	3400	SF
	2018	FBD Vanguard Construction Inc	\$ 7.00	3400	SF
	2018	California Highway Construction Group Inc	\$ 25.00	3400	SF
	WTL005 - PCC Path		Estimated Unit Cost	\$ 9.00	7700
2016		Martin Brothers Construction	\$ 7.00	7700	SF
2016		Sierra National Construction	\$ 8.00	7700	SF
2016		Bridgeway Civil Constructors Inc	\$ 11.00	7700	SF
PTO121 - PCC Path		Estimated Unit Cost	\$ 7.50	2174	SF
	2016	Martin Brothers Construction	\$ 7.00	2174	SF
	2016	Sierra National Construction	\$ 9.00	2174	SF
	2016	Bridgeway Civil Constructors Inc	\$ 13.00	2174	SF
Manteca - SR 120/Union Road Interchange (Minor Concrete - Sidewalk)			\$ 500.00	3518	SF
Rancho Cordova - Zinfandel Complex (Minor Concrete - Sidewalk)			\$ 450.00	12927	SF
Sacramento - Hazel Interchange Alt 1 (Minor Concrete - Sidewalk)			\$ 700.00	27000	SF
West Valley - Silva Valley Pkwy (Minor Concrete - Sidewalk)			\$ 400.00	19636	SF
Vacaville - Aldridge Road Bridge (Minor Concrete - Sidewalk)			\$ 650.00	1964	SF
Sacramento - I Street (Minor Concrete - Sidewalk)			\$ 425.00	21682	SF
WTL022	2018		\$ 10.25	1030	SF

Depth (LF)	Volume (CF)	Volume (CY)
0.33	1161	43
0.33	4266	158
0.33	8910	330
0.33	6480	240
0.33	648	24
0.33	7155	265

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 133.88	
Standard Deviation	\$ 229.18	
Average Range ± 1 SD	\$ 363.06	\$ (95.30)
Average within 1 SD	\$ 11.69	



ATTACHMENT D - UNIT COST DATA AND ANALYSIS

3.4	CURB AND GUTTER				
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
Rancho Cordova - Folsom Blvd Streetscape Phase 4 - PCC Curb and Gutter			\$ 40.00	4175	LF
Rancho Cordova - Folsom Blvd Routier Station (PCC Curb and Gutter Type 2)			\$ 40.00	480	LF
Rancho Cordova - Folsom Blvd Routier Station - PCC Curb and Gutter Type 2 (reinforced)			\$ 45.00	330	LF
Roseville - Washington Andora Widening (w/Cycle Track and Multi-Use Path) - Curb and Gutter Type 2			\$ 45.00	210	LF
Davis - Covell Blvd / L Street (Minor Concrete - 6" Vertical Concrete Curb and Gutter)			\$ 45.00	930	LF
Davis - F St/Covell Ped Improvements - 6" Vertical Concrete Curb and Gutter			\$ 50.00	420	LF
West Valley - Silva Valley Pkwy (Minor Concrete - Vertical Curb and Gutter)			\$ 45.00	540	LF
Chico SR32 Widening (Minor Concrete - Curb and Gutter)	2010		\$ 20.00	5100	LF
Rancho Cordova - Chase Drive Corridor - MINOR CONCRETE (CURB & GUTTER TYPE 2) - (Minor Concrete - Curb and Gutter)			\$ 45.00	490	LF
Roseville - Industrial and Oak Ridge Bridge Replacement (Minor Concrete - Curb and Gutter)			\$ 25.00	1355	LF
Sacramento - Rio Linda Bridge Replacement - Concrete - Curb and Gutter Type 1 (Minor Concrete - Curb and Gutter)			\$ 45.00	188	LF
Sacramento - Rio Linda Bridge Replacement - Concrete - Curb and Gutter Type 2 (Minor Concrete - Curb and Gutter)			\$ 30.00	1150	LF
Sacramento - Rio Linda Bridge Replacement - Concrete - Retaining Curb and Gutter (Minor Concrete - Curb and Gutter)			\$ 50.00	241	LF
West Valley - Silva Valley Pkwy (Minor Concrete - Curb and Gutter)			\$ 30.00	3400	LF
Salem Street Bridge Replacement (Minor Concrete - Curb and Gutter)			\$ 45.00	237	LF
Chico - Pomona Ave Bridge Replacement (Minor Concrete - Curb and Gutter)			\$ 75.00	280	LF

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 42.19	
Standard Deviation	\$ 12.51	
Average Range ± 1 SD	\$ 54.70	\$ 29.68
Average within 1 SD	\$ 42.69	

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

3.5	CURB				
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WTL022 - PCC Curb		Estimate Unit Cost	\$ 27.00	100	LF
	2018	Robert A Bothman Construction	\$ 41.00	100	LF
	2018	Granite Rock Company	\$ 30.00	100	LF
WTR026/WTR029 Big Horn Blvd Extension Type 4 Curb		Estimate Unit Cost	\$ 20.00	7320	LF
	2017	DeSilva Gates Construction	\$ 10.00	7320	LF
	2017	George Reed	\$ 7.00	7320	LF
	2017	Teichert	\$ 10.50	7320	LF
	2017	Goodfellow Top Grade	\$ 15.00	7320	LF
	2017	Bay Cities Paving and Grading, Inc	\$ 18.00	7320	LF
	2017	Martin Brothers Construction	\$ 14.00	7320	LF
	2017	Lund Consutruction	\$ 10.00	7320	LF
	2017	Granite	\$ 7.00	7320	LF
WTR026/WTR029 Big Horn Blvd Extension Type 4A Curb (Modified)		Estimate Unit Cost	\$ 22.00	610	LF
	2017	DeSilva Gates Construction	\$ 12.00	610	LF
	2017	George Reed	\$ 8.00	610	LF
	2017	Teichert	\$ 13.50	610	LF
	2017	Goodfellow Top Grade	\$ 20.00	610	LF
	2017	Bay Cities Paving and Grading, Inc	\$ 20.00	610	LF
	2017	Martin Brothers Construction	\$ 20.00	610	LF
	2017	Lund Consutruction	\$ 11.50	610	LF
WTR026/WTR029 Big Horn Blvd Extension Type 8 Curb		Estimate Unit Cost	\$ 20.00	220	LF
	2017	DeSilva Gates Construction	\$ 25.00	220	LF
	2017	George Reed	\$ 8.30	220	LF
	2017	Teichert	\$ 34.00	220	LF
	2017	Goodfellow Top Grade	\$ 30.00	220	LF
	2017	Bay Cities Paving and Grading, Inc	\$ 33.50	220	LF
	2017	Martin Brothers Construction	\$ 20.00	220	LF
	2017	Lund Consutruction	\$ 25.00	220	LF
WTC012/WTC013 - PCC Median Curb (Type 4A)		Estimate Unit Cost	\$ 60.00	218	LF
	2018	Western Engineering	\$ 80.00	218	LF
	2018	Swierstok Enterprise	\$ 80.00	218	LF
	2018	Martin Brothers Construction	\$ 60.00	218	LF
WTC012/WTC013 - PCC Median Curb (Type 5)		Estimate Unit Cost	\$ 60.00	250	LF
	2018	Western Engineering	\$ 80.00	250	LF
	2018	Swierstok Enterprise	\$ 80.00	250	LF
	2018	Martin Brothers Construction	\$ 80.00	250	LF
Davis - Covell Blvd / L Street (Minor Concrete - 6" Barrier Curb)	2010		\$ 30.00	475	LF
Concrete - Curb (Type 14) - Median Curb			\$ 15.00	640	LF
West Valley - Silva Valley Pkwy (Minor Concrete - Curb)			\$ 20.00	6310	LF
Sacramento - Watt Ave & HWY 50 (Minor Concrete - Curb)			\$ 61.00	10170	LF

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 30.70	
Standard Deviation	\$ 23.52	
Average Range ± 1 SD	\$ 54.22	\$ 7.18
Average within 1 SD	\$ 20.46	

3.6	THERMOPLASTIC PAVEMENT MARKINGS				
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
PTO137 - Thermoplastic Pavement Marking	2018	Granite Rock Company	\$ 3.50	1276	SF
	2018	Teichert Construction	\$ 5.00	1276	SF
		George Reed	\$ 5.50	1276	SF
		Martin Brothers	\$ 6.00	1276	SF
WDR023 - North Camden Drive Storm Drain - Thermoplastic Pavement Markings		Estimate Unit Cost	\$ 25.00	300	SF
	2019	Mozingo, Inc	\$ 5.50	300	SF
	2019	McGuire and Hester	\$ 5.00	300	SF
	2019	Martin Engineering, Inc	\$ 5.55	300	SF
		Sierra National Construction	\$ 15.00	300	SF
		C.E. Cox	\$ 18.00	300	SF
		Northern Pacific Corp	\$ 8.00	300	SF
		California Trenchless, Inc	\$ 14.00	300	SF
WDR024 - Emerald Vista Drive Storm Drain Improvements - Thermoplastic Pavement Markings		Estimate Unit Cost	\$ 5.00	150	SF
	2018	Mozingo Construction	\$ 4.00	150	SF
	2018	Swierstock Enterprise DBA Probuilders	\$ 6.00	150	SF
	2018	Soracco Inc	\$ 6.60	150	SF
		Martin General Engineering Inc	\$ 5.60	150	SF
		Northern Pacific Corp	\$ 5.00	150	SF
		Sierra National Construction	\$ 6.00	150	SF
		B&M Builders Inc	\$ 6.35	150	SF
		Western Engineering Contractors Inc	\$ 6.00	150	SF
WPR016 - Kent Street And Dino Drive - Thermoplastic Pavement Markings		Estimate Unit Cost	\$ 8.00	156	SF
	2017	Teichert & Sons, Inc	\$ 5.00	156	SF
	2017	Granite Construction Company	\$ 2.41	156	SF
	2017	Central Valley Engineering	\$ 5.50	156	SF
		Western Engineering Contractors	\$ 6.00	156	SF
		Martin Brothers	\$ 5.25	156	SF
WPR016 - Rehabilitation of Big Horn Boulevard/Bruceville Road Intersection - Thermoplastic Pavement Markings		Estimate Unit Cost	\$ 8.00	1220	SF
	2017	Teichert & Sons, Inc	\$ 5.00	1220	SF
	2017	Granite Construction Company	\$ 2.41	1220	SF
	2017	Central Valley Engineering	\$ 2.67	1220	SF
		Western Engineering Contractors	\$ 3.00	1220	SF
		Martin Brothers	\$ 2.00	1220	SF

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

WTC012/WTC013 - Thermoplastic Pavement Markings		Estimate Unit Cost	\$ 30.00	125	SF
	2018	Western Engineering	\$ 24.00	125	SF
	2018	Swierstok Enterprise	\$ 25.00	125	SF
	2018	Martin Brothers Construction	\$ 20.00	125	SF
WTR029 - Big Horn Boulevard Extension Bilby Road Extension - Thermoplastic Pavement Marking		Estimate Unit Cost	\$ 5.00	310	SF
	2017	DeSilva Gates Construction	\$ 5.00	310	SF
	2017	George Reed	\$ 3.00	310	SF
	2017	Teichert	\$ 3.00	310	SF
		Goodfellow Top Grade	\$ 5.00	310	SF
		Bay Cities Paving and Grading, Inc	\$ 5.56	310	SF
		Martin Brothers Construction	\$ 3.00	310	SF
		Lund Construction	\$ 3.00	310	SF
		Granite	\$ 3.00	310	SF
WTR026 - Big Horn Boulevard Extension Bilby Road Extension - Thermoplastic Pavement Marking		Estimate Unit Cost	\$ 5.00	660	SF
	2017	DeSilva Gates Construction	\$ 5.00	660	SF
	2017	George Reed	\$ 3.00	660	SF
	2017	Teichert	\$ 3.00	660	SF
		Goodfellow Top Grade	\$ 5.00	660	SF
		Bay Cities Paving and Grading, Inc	\$ 5.55	660	SF
		Martin Brothers Construction	\$ 3.00	660	SF
		Lund Construction	\$ 3.00	660	SF
		Granite	\$ 4.00	660	SF
WTR011 - Bruceville Road at Poppy Ridge/Quail Run Lane Intersection Signalization - Thermoplastic Pavement Markings		Estimate Unit Cost	\$ 10.00	560	SF
	2019	Pacific Excavation	\$ 6.00	560	SF
	2019	M&M Electric	\$ 6.00	560	SF
	2019	Sturgeon Electric California	\$ 7.00	560	SF
		St. Francis Electric, LLC	\$ 6.00	560	SF
		Tennyson Electric, Inc	\$ 9.00	560	SF
WTL022 - Thermoplastic Pavement Marking		Estimate Unit Cost	\$ 5.00	1060	SF
	2018	Robert A Bothman Construction	\$ 31.00	1060	SF
	2018	Granite Rock Company	\$ 4.00	1060	SF
WTC019 - Pavement Markings		Estimate Unit Cost	\$ 11.00	600	SF
	2018	PTM General Engineering	\$ 10.70	600	SF
	2018	Tennyson Electric	\$ 13.00	600	SF
	2018	B&M Builders Inc	\$ 13.00	600	SF
WAC014	2019		\$ 19	1196	SF
WPR019	2019		\$ 10	6883	SF
WAC013	2018		\$ 14.00	732	SF

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 8.00	
Standard Deviation	\$ 6.61	
Average Range ± 1 SD	\$ 14.60	\$ 1.39
Average within 1 SD	\$ 6.01	

2.9	THERMOPLASTIC TRAFFIC STRIPE				
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
WPR016 - Rehabilitation of Big Horn Boulevard/Bruceville Road Intersection - Thermoplastic Traffic Stripe			\$ 2.00	3800	LF
WTR029 - Big Horn Boulevard Extension Bilby Road Extension - Thermoplastic Traffic Stripe			\$ 3.00	28400	LF
WTR026 - Big Horn Boulevard Extension Bilby Road Extension - Thermoplastic Traffic Stripe			\$ 3.00	27000	LF
Sac - Ramona Extension			\$ 1.00	9519	LF
Sac - Rio Linda Bridge Replacement			\$ 2.00	7,342	LF
Sac - I Street Bridge			\$ 1.00	24020	LF
Stockton Hammer Lane Phase 3B			\$ 1.00	5660	LF
West Valley Silva Valley			\$ 0.75	73500	LF
SR32 Widening			\$ 1.00	42976	LF
Davis Covell Blvd/L Street			\$ 1.00	3345	LF
Manteca SR120 - Union Road			\$ 1.00	4,449	LF
Placer County - Dowd Rd			\$ 1.50	3600	LF
Rancho Cordova - Folsom Blvd Phase 4 Streetscape			\$ 0.50	9,770	LF
Rancho Cordova - Folsom Blvd Routier Station			\$ 0.50	2,680	LF
Roseville - Industrial and Oak Ridge Bridge Replacement			\$ 1.50	5,210	LF
WPR019			\$ 2.50	32143	LF
WAM002			\$ 1.70	1343	LF
WTR011			\$ 2.70	2115	LF

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$	1.54	
Standard Deviation	\$	0.82	
Average Range ± 1 SD	\$	2.36	\$ 0.71
Average within 1 SD	\$	1.29	

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

4.1	TRAFFIC SIGNAL				
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
Sacramento Broadway Complete Streets - Traffic Signal (Broadway/29th Street)	2019		\$ 250,000.00	1	LS
Sacramento - Watt Ave & HWY 50 - Traffic Signals	2019		\$ 1,200,000.00	1	LS
Roseville - Washington Andora Widening (w/Cycle Track and Multi-Use Path) - New Traffic Signal Kaseberg Dr/Washington Blvd	2019		\$ 250,000.00	1	LS
Sacramento Broadway Complete Streets - Install Signal	2019		\$ 300,000.00	1	LS
Sacramento - Ramona Extention (Traffic Signal Installation Folsom Blvd/Ramona Avenue)	2017		\$ 239,048.00	1	LS
Sacramento - Ramona Extention (Traffic Signal Installation Ramona Avenue Que Cutter)	2017		\$ 112,587.00	1	LS
Sacramento - I Street (35%) Traffic Signal Installation Railyards Blvd/Bercut Dr	2019		\$ 400,000.00	1	LS
Sacramento - I Street (35%) Traffic Signal Installation Railyards Blvd/Jibboom St	2019		\$ 380,000.00	1	LS
Sacramento - Rio Linda Bridge Replacement (Traffic Signal Installation - Rio Linda Blvd and Main Ave)	2018		\$ 228,600.00	1	LS
WTR011	2019		\$ 336,000	1	LS
WTL022	2018		\$ 197,000	1	LS

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$	353,930.45	
Standard Deviation	\$	292,446.29	
Average Range ± 1 SD	\$	646,376.74	\$ 61,484.17
Average within 1 SD	\$	269,323.50	

## ATTACHMENT D - UNIT COST DATA AND ANALYSIS

4.2	TRAFFIC SIGNAL MODIFICATION				
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
Sacramento - Downtown Mobility (5th St Roadway) - Traffic Signal Modification	2019		\$ 1,586,800.00	1	LS
Sacramento - Downtown Mobility (I St Roadway) - Traffic Signal Modification	2019		\$ 161,200.00	1	LS
West Sacramento - West Capitol Ave Rd Rehabilitation (96%) - Traffic Signal Modification West Capitol Ave and Harbor Blvd	2019		\$ 158,000.00	1	LS
West Sacramento - West Capitol Ave Rd Rehabilitation (96%) - Traffic Signal Modification West Capitol Ave and Poplar Ave	2019		\$ 124,000.00	1	LS
West Sacramento - West Capitol Ave Rd Rehabilitation (96%) - Traffic Signal Modification West Capitol Ave and Weestacre Rd	2019		\$ 205,000.00	1	LS
West Sacramento - West Capitol Ave Rd Rehabilitation (96%) - Traffic Signal Modification West Capitol Ave and Jefferson Blvd	2019		\$ 82,000.00	1	LS
West Sacramento - West Capitol Ave Rd Rehabilitation (96%) - Traffic Signal Modification Jefferson Blvd and Merkley Ave	2019		\$ 198,000.00	1	LS
West Sacramento - West Capitol Ave Rd Rehabilitation (96%) - Traffic Signal Modification Jefferson Blvd and Park Blvd	2019		\$ 38,000.00	1	LS
Davis - Richards Blvd & I-80 (Traffic Signal Modification Richards Blvd/Olive Dr)	2018		\$ 304,000.00	1	LS
Davis - Richards Blvd & I-80 (Traffic Signal Modification Richards Blvd/I-80 WB Ramps)	2018		\$ 289,000.00	1	LS
Davis - Richards Blvd & I-80 (Traffic Signal Modification Richards Blvd/I-80 EB Ramps)	2018		\$ 263,000.00	1	LS
Davis - Richards Blvd & I-80 (Traffic Signal Modification Richards Blvd/Research Park Dr)	2018		\$ 85,000.00	1	LS
Manteca - Main Street Pavement Improvements (Alt 2) - Signal Modifications	2019		\$ 450,000.00	1	LS
Roseville - Washington Andora Widening (w/Cycle Track and Multi-Use Path) - Traffic Signal Modification Sawtell Rd/Washington Blvd	2019		\$ 50,000.00	1	LS

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

Roseville - Washington Andora Widening (w/Cycle Track and Multi-Use Path) - Traffic Signal Modification Diamond Oaks Rd/Washington Blvd	2019		\$ 285,000.00	1	LS
Sacramento - Hazel Interchange Alt 1 (Signal and Modifications)	2016		\$ 250,000.00	1	LS
Sacramento - Ramona Extention (Traffic Signal Modification State University Drive East)	2017		\$ 202,156.00	1	LS
Sacramento - I Street (35%) Traffic Signal Modification C St/3rd St	2019		\$ 390,000.00	1	LS
Sacramento - I Street (35%) Traffic Signal Modification C St/5th St	2019		\$ 78,000.00	1	LS
Woodland - West Main Street - Traffic Signal (Co Rd 98 & West Main St)	2019		\$ 140,000.00	1	LS
Woodland - West Main Street - Traffic Signal (Ashley Ave & West Main St)	2019		\$ 216,000.00	1	LS
Woodland - West Main Street - Traffic Signal (Cottonwood St & West Main St)	2019		\$ 226,000.00	1	LS
Woodland - West Main Street - Traffic Signal (California St & West Main St)	2019		\$ 180,000.00	1	LS
Woodland - West Main Street - Traffic Signal (West St & West Main St)	2019		\$ 234,000.00	1	LS
SA-15122 - Stockton Hammer Lane Phase 3B (Hammer Lane/Pershing Avenue Signal Modification)	2016		\$ 239,500.00	1	LS
SA-15122 - Stockton Hammer Lane Phase 3B (Hammer Lane/Thornton Road Signal Modification)	2016		\$ 148,000.00	1	LS

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 253,179.08	
Standard Deviation	\$ 289,200.64	
Average Range ± 1 SD	\$ 542,379.71	\$ (36,021.56)
Average within 1 SD	\$ 199,834.24	



4.3		STREET LIGHTING					
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units	# of Lights	Cost/Light
West Sacramento - West Capitol (Street Lighting)	2019	Fehr & Peers	\$ 1,099,000.00	1	LS	167	\$ 6,580.84
Rancho Cordova Folsom Blvd Streetscape Phase 5 (Street Lighting)	2019	Y&C Transportation Consultants, Inc	\$ 220,000.00	1	LS	14	\$ 15,714.29
Manteca - SR 120/Union Road Interchange - Lighting (City Street)	2019		\$ 473,800.00	1	LS	48	\$ 9,870.83
Manteca - SR 120/Union Road Interchange - Lighting System	2019		\$ 440,600.00	1	LS	43	\$ 10,246.51
Rancho Cordova - Folsom Blvd Streetscape Phase 4 (Street Lighting)	2018	Y&C Transportation Consultants, Inc	\$ 534,000.00	1	LS	38	\$ 14,052.63
Stockton - Mountauban & Hammertown (Street Lighting)	2019	Y&C Transportation Consultants, Inc	\$ 112,000.00	1	LS	10	\$ 11,200.00
SA-15122 - Stockton Hammer Lane Phase 3B (Hammer Lane Street Lighting)	2016	Fehr & Peers	\$ 224,500.00	1	LS	11	\$ 20,409.09
Davis - Richards Blvd & I-80 (City Street and Pathway Lighting)	2018		\$ 186,000.00	1	LS	16	\$ 11,625.00
Davis - Richards Blvd & I-80 (Highway Lighting)	2018		\$ 168,000.00	1	LS	16	\$ 10,500.00
Average			\$ 384,211.11	Average			\$ 10,582.26

4.4		FIBER OPTIC					
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units	Distance (ft)	Price/LF
West Sacramento - West Capitol (Fiber Optic Conduit and Cabling)	2019		\$ 701,000.00	1	LS	15840	\$ 44.26
Manteca - SR 120/Union Road Interchange - Modifying Existing Electrical System (Fiber Optic System)	2019		\$ 360,800.00	1	LS	12240	\$ 29.48
Sacramento - Ramona Extention (CSUS Fiber Optic Conduit)	2017		\$ 249,355.00	1	LS	2640	\$ 94.45
Stockton - Mountauban & Hammertown (CCTV and Fiber Optic Interconnect System)	2019	Y&C Transportation Consultants	\$ 128,000.00	1	LS	1584	\$ 80.81
SA-15122 - Stockton Hammer Lane Phase 3B (AT&T Fiber Optic Cable Installation)	2016	Engineer's Estimate	\$ 5,000.00	1	LS	1584	\$ 3.16

Average	\$ 288,831.00
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Average	\$ 62.25
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Y&C	\$ 56.00
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3.2	Network Equipment Per Intersection
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Y&C	\$ 15,000.00
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4.6							
Traffic Control System							
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units	% of Construction Items	Construction Subtotal
WFL003 Engineer's Estimate - SCWA Frontage Improvement Project Traffic Control	2018	Estimated Unit Cost	\$ 10,000.00	1	LS	3%	\$ 334,690.00
	2018	Reyre Construction	\$ 4,375.00	1	LS	1%	\$ 308,332.02
	2018	Sauren Construction and Electric	\$ 8,465.00	1	LS	3%	\$ 308,504.98
	2018	R&R Pacific Construction	\$ 7,500.00	1	LS	2%	\$ 314,804.00
	2018	B&M Builders Inc	\$ 9,500.00	1	LS	0%	\$ 1,224,825.00
	2018	Martin General Engineering Inc	\$ 6,500.00	1	LS	2%	\$ 318,642.00
	2018	Biondi Paving Inc	\$ 15,200.00	1	LS	5%	\$ 322,627.00
	2018	Parker Landscape Dev Inc	\$ 18,390.00	1	LS	6%	\$ 329,711.36
	2018	FBD Vanguard Construction Inc	\$ 16,000.00	1	LS	4%	\$ 365,492.00
	2018	California Highway Construction Group Inc	\$ 12,000.00	1	LS	3%	\$ 398,234.00
WTR011 - Bruceville Road at Poppy Ridge/Quail Run Lane Intersection Signalization Traffic Control	2019	Estimated Unit Cost	\$ 21,000.00	1	LS	5%	\$ 421,757.50
	2019	Pacific Excavation	\$ 5,000.00	1	LS	1%	\$ 352,337.00
	2019	M&M Electric	\$ 1,500.00	1	LS	0%	\$ 441,469.00
	2019	Strugeon Electric California	\$ 15,000.00	1	LS	3%	\$ 450,000.00
	2019	St. Francis Electric, LLC	\$ 25,000.00	1	LS	5%	\$ 468,971.50
	2019	Tennyson Electric, Inc	\$ 27,800.00	1	LS	6%	\$ 479,092.00
WTL005 - Laguna Creek Trail Camden North Spur Traffic Control (Bid Schedule 1)	2016	Estimated Unit Cost	\$ 8,100.00	1	LS	2%	\$ 397,483.24
	2016	Martin Brothers Construction	\$ 15,000.00	1	LS	3%	\$ 435,402.50
	2016	Sierra National Construction	\$ 5,000.00	1	LS	1%	\$ 449,162.90
	2016	Bridgeway Civil Constructors Inc	\$ 12,732.00	1	LS	2%	\$ 509,323.62
WTL005/PT0121 - Laguna Creek Trail Camden South Spur Traffic Control (Bid Schedule 2)	2016	Estimated Unit Cost	\$ 19,000.00	1	LS	2%	\$ 1,102,917.75
	2016	Martin Brothers Construction	\$ 15,000.00	1	LS	1%	\$ 1,249,950.55
	2016	Sierra National Construction	\$ 5,000.00	1	LS	0%	\$ 1,399,883.50
	2016	Bridgeway Civil Constructors Inc	\$ 6,089.00	1	LS	0%	\$ 1,499,385.57
PT0124 -	2017	Estimated Unit Cost	\$ 5,000.00	1	LS	2%	\$ 260,592.00
	2017	B&M Builders Inc	\$ 8,000.00	1	LS	4%	\$ 191,569.00
	2017	Farris Construction	\$ 6,700.00	1	LS	3%	\$ 233,356.00
	2017	All American Construction, Inc.	\$ 3,800.00	1	LS	2%	\$ 242,506.96
		Martin General	\$ 3,500.00	1	LS	1%	\$ 256,838.50
		Martin Brothers	\$ 2,000.00	1	LS	1%	\$ 267,267.00
		Sierra National Construction	\$ 2,100.00	1	LS	1%	\$ 276,769.00
		Abide Builders	\$ 4,200.00	1	LS	1%	\$ 281,921.53
PT0137	2018	Granite Rock Company	\$ 30,000.00	1	LS	1%	\$ 4,500,269.00
	2018	Teichert Construction	\$ 50,000.00	1	LS	1%	\$ 5,692,000.00
		George Reed	\$ 100,000.00	1	LS	2%	\$ 5,508,547.50
		Martin Brothers	\$ 48,000.00	1	LS	1%	\$ 6,123,752.50
PT0138	2016	Martin Brothers Construction	\$ 90,000.00	1	LS	3%	\$ 2,682,588.60
	2016	Granite Construction Company	\$ 50,000.00	1	LS	2%	\$ 2,814,725.92
	2016	Teichert Construction	\$ 85,744.00	1	LS	3%	\$ 3,131,700.00
PT0138 Part 2	2016	Martin Brothers Construction	\$ 10,000.00	1	LS	0%	\$ 2,321,219.60
	2016	Granite Construction Company	\$ 48,000.00	1	LS	2%	\$ 2,396,916.32
	2016	Teichert Construction	\$ 28,000.00	1	LS	1%	\$ 3,483,990.00
PT0138 - Sheldon Road and Waterman Road Landscape and Irrigation Phase 2		Estimated Unit Cost	\$ 5,000.00	1	LS	1%	\$ 649,932.00
	2018	Marina Landscape	\$ 7,000.00	1	LS	2%	\$ 339,378.00
	2018	Bortolussi & Watkin Inc	\$ 16,900.00	1	LS	6%	\$ 303,993.00
	2018	Sierra National Construction	\$ 20,280.00	1	LS	5%	\$ 435,255.00
	2018	Martin Brothers Construction	\$ 27,000.00	1	LS	5%	\$ 582,452.95
WAC032 - East Stockton Blvd		Estimated Unit Cost	\$ 10,000.00	1	LS	11%	\$ 93,125.00
	2018	B&M Builders Inc	\$ 5,500.00	1	LS	6%	\$ 87,545.00
	2018	Martin General Engineering Inc	\$ 4,000.00	1	LS	4%	\$ 99,539.00
	2018	Swierstock Enterprise DBA Probuilders	\$ 18,000.00	1	LS	14%	\$ 125,150.00
WAC032 - Laguna Blvd		Estimated Unit Cost	\$ 10,000.00	1	LS	28%	\$ 36,340.00
	2018	B&M Builders Inc	\$ 7,500.00	1	LS	13%	\$ 55,796.00
	2018	Martin General Engineering Inc	\$ 2,500.00	1	LS	5%	\$ 46,128.00
	2018	Swierstock Enterprise DBA Probuilders	\$ 15,000.00	1	LS	22%	\$ 68,580.00
WAM002 - Elk Grove and Laguna Boulevards UPRR Xing Interm Bike Lane		Estimate Unit Cost	\$ 20,000.00	1	LS	8%	\$ 262,110.00
	2019	B&M Builders Inc	\$ 3,000.00	1	LS	1%	\$ 239,994.75
	2019	Chrip Company	\$ 15,856.00	1	LS	6%	\$ 251,231.25
	2019	Sierra Traffic Markings, Inc	\$ 16,000.00	1	LS	6%	\$ 257,146.00
		Estimated Unit Cost	\$ 35,000.00	1	LS	4%	\$ 907,185.00
WDR023 - North Camden Drive Storm Drain	2019	Mozingo, Inc	\$ 49,040.00	1	LS	6%	\$ 808,885.00
	2019	McGuire and Hester	\$ 39,000.00	1	LS	5%	\$ 839,287.00
	2019	Martin Engineering, Inc	\$ 25,000.00	1	LS	3%	\$ 863,862.25
		Sierra National Construction	\$ 39,903.00	1	LS	5%	\$ 873,469.00
		C.E. Cox	\$ 15,000.00	1	LS	2%	\$ 891,482.00
		Northern Pacific Corp	\$ 44,250.00	1	LS	5%	\$ 892,892.00
		California Trenchless, Inc	\$ 5,000.00	1	LS	0%	\$ 1,126,458.00
		Estimate Unit Cost	\$ 25,000.00	1	LS	3%	\$ 755,145.00
WDR024 - Emerald Vista Drive Storm Drain Improvements	2018	Mozingo Construction	\$ 55,000.00	1	LS	7%	\$ 773,700.00
	2018	Swierstock Enterprise DBA Probuilders	\$ 183,000.00	1	LS	21%	\$ 860,114.00
	2018	Soracco Inc	\$ 15,000.00	1	LS	2%	\$ 868,666.48
		Martin General Engineering Inc	\$ 16,000.00	1	LS	2%	\$ 942,731.70
		Northern Pacific Corp	\$ 65,000.00	1	LS	6%	\$ 1,068,290.00
		Sierra National Construction	\$ 69,000.00	1	LS	6%	\$ 1,070,469.00
		B&M Builders Inc	\$ 110,000.00	1	LS	8%	\$ 1,419,464.45
		Western Engineering Contractors Inc	\$ 15,600.00	1	LS	1%	\$ 1,262,216.00



ATTACHMENT D - UNIT COST DATA AND ANALYSIS

Rancho Cordova - Zinfandel Complex	2019		\$ 416,000.00	1	LS	5%	\$ 7,896,540.00
Sacramento County TPSS Regional Transit	2017		\$ 12,000.00	1	LS	4%	\$ 320,000.00
Sacramento Broadway Complete Streets	2019		\$ 150,000.00	1	LS	2%	\$ 7,230,000.00
West Sacramento - West Capitol Ave Rd Rehabilitation (96%)	2019		\$ 594,000.00	1	LS	4%	\$ 13,720,386.00
Chico - Pomona Ave Bridge Replacement	2019		\$ 35,000.00	1	LS	1%	\$ 2,573,350.00
Chico - Salem Street Bridge Replacement	2019		\$ 20,000.00	1	LS	1%	\$ 2,490,000.00
Davis - F St/Covell Ped Improvements (Cannery)	2016		\$ 35,800.00	1	LS	2%	\$ 2,267,100.00
Davis - Covell Blvd/L Street	2016		\$ 44,000.00	1	LS	4%	\$ 1,009,000.00
Davis - Richards Blvd & I-80 (65% Estimate)	2018		\$ 100,000.00	1	LS	1%	\$ 8,908,528.00
Davis - Tulip Lane	2019		\$ 20,000.00	1	LS	11%	\$ 183,788.00
Manteca - Main Street Pavement Improvements (Alt 2)	2019		\$ 50,000.00	1	LS	2%	\$ 2,029,000.00
Napa - Imola Avenue Pocket Paving and ADA Ramp Project	2019		\$ 90,000.00	1	LS	5%	\$ 1,774,810.00
Manteca - SR 120/Union Road Interchange	2019		\$ 100,000.00	1	LS	0%	\$ 23,260,681.00
Rancho Cordova - Chase Drive Corridor	2019		\$ 25,000.00	1	LS	3%	\$ 789,554.00
Roseville - Industrial and Oak Ridge Bridge Replacement	2015		\$ 150,000.00	1	LS	4%	\$ 3,509,000.00
Roseville - Downtown Bridges and Trail	2018		\$ 100,000.00	1	LS	1%	\$ 8,323,414.00
Roseville - Washington Andora Widening (with Multiuse Path)	2019		\$ 300,000.00	1	LS	8%	\$ 3,605,690.00
Sacramento - Metro Parkway Interchange Improvements	2018		\$ 100,000.00	1	LS	0%	\$ 20,205,542.00
Sacramento - Ramona Extension	2017		\$ 50,000.00	1	LS	1%	\$ 5,794,374.00
Sacramento - Rio Linda Bridge Replacement	2018		\$ 237,000.00	1	LS	4%	\$ 5,455,325.00
Sacramento - I Street (35%)	2019		\$ 300,000.00	1	LS	2%	\$ 18,564,066.00
SA-15122 - Stockton Hammer Lane Phase 3B	2016	Engineer's Estimate	\$ 150,000.00	1	LS	2%	\$ 6,009,400.00
	2016	DSS Company dba Knife River Construction	\$ 150,000.00	1	LS	3%	\$ 5,645,461.65
	2016	George Reed, Inc.	\$ 100,000.00	1	LS	2%	\$ 5,901,167.50
	2016	Goodfellow Top Grade Construction, LLC	\$ 150,000.00	1	LS	2%	\$ 6,770,465.00
	2016	Bay Cities Paving and Grading, Inc	\$ 125,000.00	1	LS	2%	\$ 6,595,516.15
Vacaville - Aldridge Road Bridge	2019		\$ 35,000.00	1	LS	2%	\$ 2,057,994.00

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 52,220.46	Average	5%
Standard Deviation	\$ 75,606.18		
Average Range ± 1 SD	\$ 127,826.65	\$ (23,385.72)	
Average within 1 SD	\$ 44,524.59		

ATTACHMENT D - UNIT COST DATA AND ANALYSIS

6.1		BRIDGES			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
Caltrans Bridge Comparative Cost	2016		\$ 450.00		SF
Rio Linda Bridge Replacement	2018		\$ 278.53	2580	SF
Berry St Bridge Replacement	2017		\$ 295.75	4257	SF
Wise Rd			\$ 297.06	2307.5	SF
Carpenter			\$ 225.00	2307.5	SF
St. Frances			\$ 275.00	2307.5	SF

\*Notes: Red highlighted cells are values that were not within 1 Standard Deviation of the unit price.

Average	\$ 303.56	
Standard Deviation	\$ 76.37	
Average Range ± 1 SD	\$ 379.93	\$ 227.18
Average within 1 SD	\$ 319.27	

6.2		CULVERTS			
Project	Date Bids Received	Bidder	Unit Price	Quantity	Units
Caltrans Cost Data Book (D3)	2018/2019	Multiple	\$ 58.96	356	LF
Wise Rd			\$ 140.12	165	LF
Brewer			\$ 274.62	65	LF

alternative pipe culverts of various sizes - does not include flared ends  
 corrugated metal pipe and flared end sections  
 15" corrugated steel pipe and flared ends

**Box Culverts**

Caltrans Cost Data Book (D5 & D6)	2016 & 2017	Multiple	\$ 487.89	LF
Average			\$ 157.90	
Standard Deviation			\$ 108.92	
Average Range ± 1 SD			\$ 266.82	\$ 48.98
Average within 1 SD			\$ 99.54	
Average			\$ 143.31	

	Conc. (CY/LF)	Steel (LB/LF)
2017	0.396296296	63.5
2016	0.588888889	110
	0.762962963	184

*4' X 4'	\$ 313.13	\$ 78.28
*6' X 5'	\$ 481.96	\$ 80.33
*8' X 6'	\$ 668.59	\$ 83.57
	\$ 487.89	\$ 80.73

2017	563.1875	1.0652
2016	514.256999	0.786543122
	538.722495	0.925871561
	\$/CY	\$/LB

Wise RSP	25	0.925926	1.851852	110
Brewer RSP	24	0.888889	3.555556	1100

2019	Unit Price	Quantity	Units	
36" ALTERNATIVE PIPE CULVERT	\$250.00	86	03-1A9204	\$21,500.00
36" ALTERNATIVE PIPE CULVERT	\$375.00	270	03-3F5104	\$101,250.00
36" ALTERNATIVE PIPE CULVERT	\$525.00	86	03-1A9204	\$45,150.00
36" ALTERNATIVE PIPE CULVERT	\$132.00	310	03-1E0604	\$40,920.00
36" ALTERNATIVE PIPE CULVERT	\$145.00	310	03-1E0604	\$44,950.00
36" ALTERNATIVE PIPE CULVERT	\$192.00	270	03-3F5104	\$51,840.00
42" ALTERNATIVE PIPE CULVERT	\$418.00	110	03-0A5704	\$45,980.00
48" ALTERNATIVE PIPE CULVERT	\$394.00	160	03-0A5704	\$63,040.00
36" ALTERNATIVE PIPE CULVERT	\$360.00	210	03-0A5704	\$75,600.00
42" ALTERNATIVE PIPE CULVERT	\$300.00	110	03-0A5704	\$33,000.00
48" ALTERNATIVE PIPE CULVERT	\$350.00	160	03-0A5704	\$56,000.00

278.21 2082

SUMMARY	Unmodified	Adjusted	
Average Price/Unit \$	303.41	303.41	Avg No. Units 191
Std Dev. (of Unit Price) \$	115.96	115.96	Rows Selected 12
Weighted Avg. \$	271.04	271.04	Rows Returned 128
Minimum Price/Unit \$	132.00	132.00	
Maximum Price/Unit \$	525.00	525.00	



ATTACHMENT E – ROADWAY SEGMENT ESTIMATES

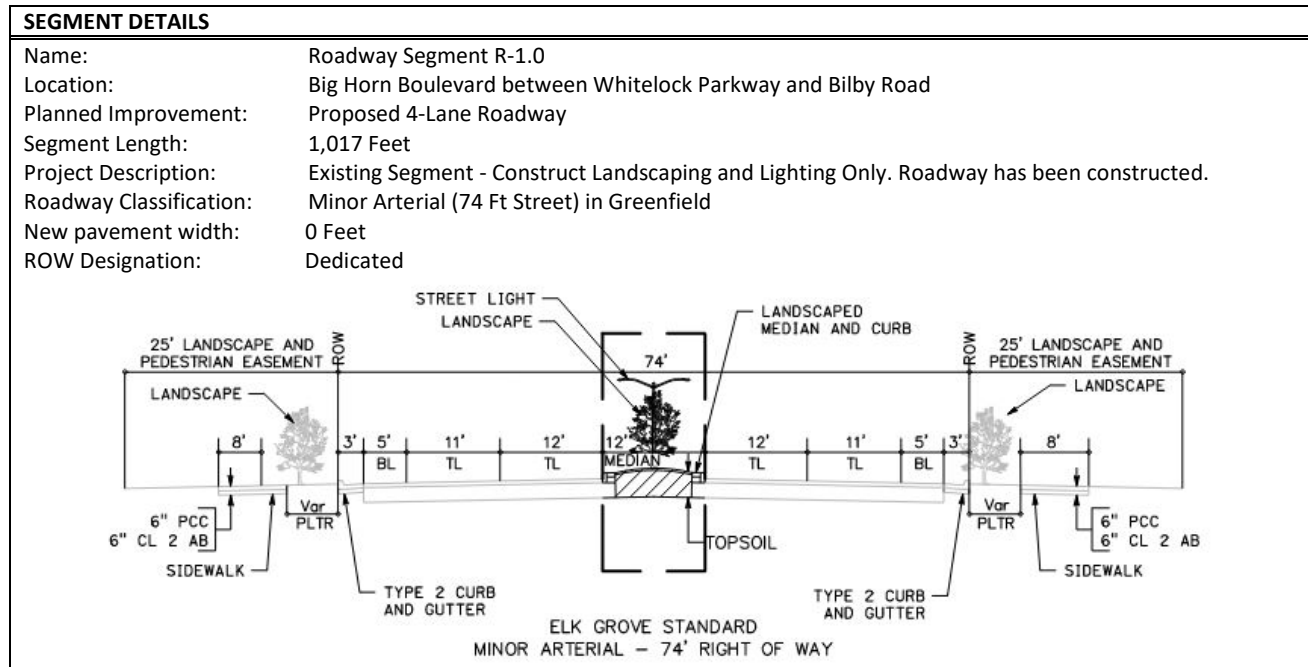






Segment No.	Roadway	Segment Cross Roads		Segment Length (Feet)	Distance (miles)	Elk Grove Prepared Cost Estimate						Notes
		From	To			Construction Cost (With 20% Contingency)	Engineering and Management Costs	Subtotal Capital Cost	ROW Dedicated?	R/W, Utility Relocation and Env. Mit. Costs	Combined Capital Cost + R/W, Utility Relocation, and Env. Mit. Costs	
R-56.0	Railroad Street	Existing Terminus	Dino Drive	2,044	0.387	\$1,113,525	\$278,500	\$1,392,030	N	\$1,400,830	\$2,792,860	
R-57.0	Waterman Road	Elk Grove Boulevard	Parsons Landing Street	352	0.067	\$65,359	\$16,500	\$81,860	Y	\$3,400	\$85,260	
R-58.0	Waterman Road	Parsons Landing Street	Dino Drive/Mainline	17	0.003	\$73,109	\$18,400	\$91,510	N	\$64,330	\$155,840	
R-59.0	Waterman Road	Dino Drive/Mainline	Kent Street	669	0.127	\$648,434	\$162,200	\$810,640	Y	\$84,400	\$895,040	
R-60.1	Waterman Road	Brinkman Court	Mosher Road	520	0.098	\$244,608	\$61,200	\$305,810	Y	\$12,300	\$318,110	
R-60.2	Waterman Road	Kent Street	Mosher Road	1,371	0.260	\$1,150,083	\$287,700	\$1,437,790	N	\$304,003	\$1,741,793	
R-61.0	Waterman Road	Mosher Road	Waterman Court	702	0.133	\$1,051,025	\$262,900	\$1,313,930	Y	\$52,700	\$1,366,630	
R-62.0	Waterman Road	Bond Road	South End of Cemetary	3,356	0.636	\$3,451,062	\$862,900	\$4,313,970	N	\$1,021,212	\$5,335,182	
R-63.0	Waterman Road	South End of Cemetery	Rancho Drive	993	0.188	\$750,241	\$187,700	\$937,950	N	\$304,967	\$1,242,917	
R-64.0	Waterman Road	Rancho Drive	Cruz Court	77	0.015	\$66,849	\$16,800	\$83,650	N	\$27,217	\$110,867	
R-65.0	Waterman Road	500 ft south of Brown Road	Calvine Road	1,416	0.268	\$982,799	\$245,800	\$1,228,600	Y	\$49,200	\$1,277,800	
R-66.0	Willard Parkway	Epoch Drive	Kammerer Road	950	0.180	\$974,685	\$243,800	\$1,218,490	Y	\$48,800	\$1,267,290	
R-67.0	Mosher Road Extension (A Street)	Grant Line Road	B Street	4,168	0.789	\$2,215,970	\$554,000	\$2,769,970	Y	\$110,900	\$2,880,870	Roadway section from Sports Park Project
R-68.0	Waterman Road Extension (B Street)	Grant Line Road	A Street	1,655	0.313	\$3,470,752	\$867,800	\$4,338,560	Y	\$173,700	\$4,512,260	Roadway section from Sports Park Project
R-69.0	A Street	B Street	E Street	718	0.136	\$1,614,106	\$403,700	\$2,017,810	Y	\$80,800	\$2,098,610	Roadway section from Sports Park Project
R-70.0	Bond Road	Bradshaw Road	Bader Rd	2,129	0.403	\$891,887	\$223,000	\$1,114,890	N	\$289,503	\$1,404,393	Roadway section from Sports Park Project
R-71.0	Bond Road	Bader Road	Grant Line Road	4,073	0.771	\$1,694,237	\$423,700	\$2,117,940	N	\$580,048	\$2,697,988	
R-72.0	Bradshaw Road	Calvine Road	Rural Elk Grove Area Boundary	6,462	1.224	\$3,756,340	\$939,200	\$4,695,540	Y	\$187,900	\$4,883,440	
R-73.0	Bradshaw Road	Rural Elk Grove Area Boundary	Middle School	1,328	0.252	\$774,755	\$193,800	\$968,560	N	\$232,355	\$1,200,915	
R-74.0	Bradshaw Road	Middle School	Bond Road	795	0.151	\$842,735	\$210,800	\$1,053,540	N	\$113,170	\$1,166,710	
R-75.1	Calvine Road	Bradshaw Road	Vineyard Road	4,899	0.928	\$1,833,743	\$458,500	\$2,292,250	Y	\$91,800	\$2,384,050	
R-75.2	Calvine Road	Vineyard Road	Grant Line Road	9,188	1.740	\$6,428,246	\$1,607,200	\$8,035,450	Y	\$321,500	\$8,356,950	
R-76.0	Elk Grove Florin Road	Sheldon Road	Animal Care Center	2,092	0.396	\$721,618	\$180,500	\$902,120	Y	\$36,200	\$938,320	
R-77.0	Elk Grove Florin Road	Campbell Road	Bond Road	0	0.000	\$0	\$0	\$0	Y	\$0	\$0	
R-78.0	Grant Line Road	Elk Grove Boulevard	Equestrian Drive	4,728	0.895	\$3,544,906	\$886,300	\$4,431,210	Y	\$460,900	\$4,892,110	
R-79.0	Grant Line Road	Equestrian Drive	Bond Road	1,539	0.291	\$1,152,973	\$288,300	\$1,441,280	Y	\$149,900	\$1,591,180	
R-80.0	Grant Line Road	Bond Road	Wilton Road	2,938	0.556	\$2,207,706	\$552,000	\$2,759,710	Y	\$287,100	\$3,046,810	
R-81.0	Grant Line Road	Wilton Road	Aleilani Lane	0	0.000	\$0	\$0	\$0	Y	\$0	\$0	
R-82.0	Grant Line Road	Aleilani Lane	Sheldon Road	410	0.078	\$308,790	\$77,300	\$386,090	Y	\$40,200	\$426,290	
R-83.0	Grant Line Road	Sheldon Road	Graybill Lane	2,198	0.416	\$1,645,196	\$411,400	\$2,056,600	Y	\$214,000	\$2,270,600	
R-84.0	Grant Line Road	Graybill Lane	Calvine Road	3,938	0.746	\$2,947,556	\$737,000	\$3,684,560	Y	\$383,300	\$4,067,860	
R-85.0	Sheldon Road	Elk Grove Florin	Waterman Road	4,371	0.828	\$2,888,064	\$722,200	\$3,610,270	N	\$447,490	\$4,057,760	
R-86.0	Sheldon Road	Waterman Road	Grant Line Road	14,959	2.833	\$10,130,935	\$2,532,800	\$12,663,740	N	\$1,852,407	\$14,516,147	
R-87.0	Waterman Road	Sheldon Road	500 ft South of Brown Road	3,025	0.573	\$483,420	\$121,000	\$604,420	Y	\$24,300	\$628,720	
<b>COMBINED PROGRAMING COSTS</b>						\$203,280,036	\$50,829,600	\$254,109,636		\$33,280,043	\$287,389,983	
<b>TOTAL COMBINED COSTS:</b>										\$287,389,983		

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-1.0
Location:	Big Horn Boulevard between Whitelock Parkway and Bilby Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,017 Feet
Project Description:	Existing Segment - Construct Landscaping and Lighting Only. Roadway has been constructed.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	5	\$50,000.00
4.5	LANDSCAPING	SF	\$10.00	8,136	\$81,360.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$131,360.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$13,136.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$13,136.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$144,496.00
			CONTINGENCY: 20%	→	\$28,900.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$173,396.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$26,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$17,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$43,500.00</b>

**TOTAL PROJECT COST \*:**      **\$216,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-1.0
Location:	Big Horn Boulevard between Whitelock Parkway and Bilby Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,017 Feet
Project Description:	Existing Segment - Construct Landscaping and Lighting Only. Roadway has been constructed.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$3,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$3,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$5,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$5,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):      \$8,800.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-2.0
Location:	Big Horn Boulevard between Bilby Road and Shed C
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	300 Feet
Project Description:	Existing Segment - Construct Landscaping and Lighting Only. Roadway has been constructed.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-2.0
Location:	Big Horn Boulevard between Bilby Road and Shed C
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	300 Feet
Project Description:	Existing Segment - Construct Landscaping and Lighting Only. Roadway has been constructed.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	2,400	\$24,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$44,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$4,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$4,400.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$48,400.00
			CONTINGENCY: 20%	→	\$9,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$58,100.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$8,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$5,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$14,700.00</b>

**TOTAL PROJECT COST \*:**      **\$72,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-2.0
Location:	Big Horn Boulevard between Bilby Road and Shed C
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	300 Feet
Project Description:	Existing Segment - Construct Landscaping and Lighting Only. Roadway has been constructed.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

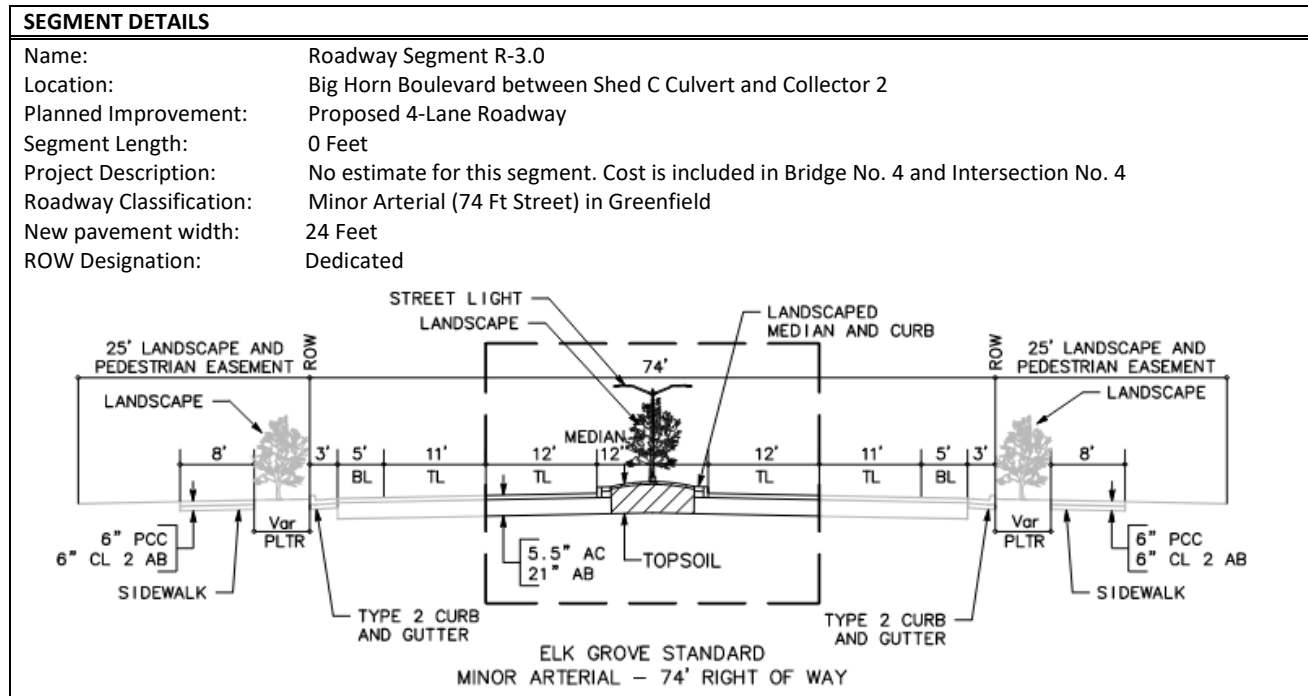
<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$1,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$1,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$3,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$3,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):      \$4,200.00**



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-3.0
Location:	Big Horn Boulevard between Shed C Culvert and Collector 2
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No estimate for this segment. Cost is included in Bridge No. 4 and Intersection No. 4
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$0.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$0.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$0.00
			CONTINGENCY: 20%	→	\$0.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$0.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$0.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$0.00</b>

**TOTAL PROJECT COST \*:** **\$0.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-3.0
Location:	Big Horn Boulevard between Shed C Culvert and Collector 2
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No estimate for this segment. Cost is included in Bridge No. 4 and Intersection No. 4
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

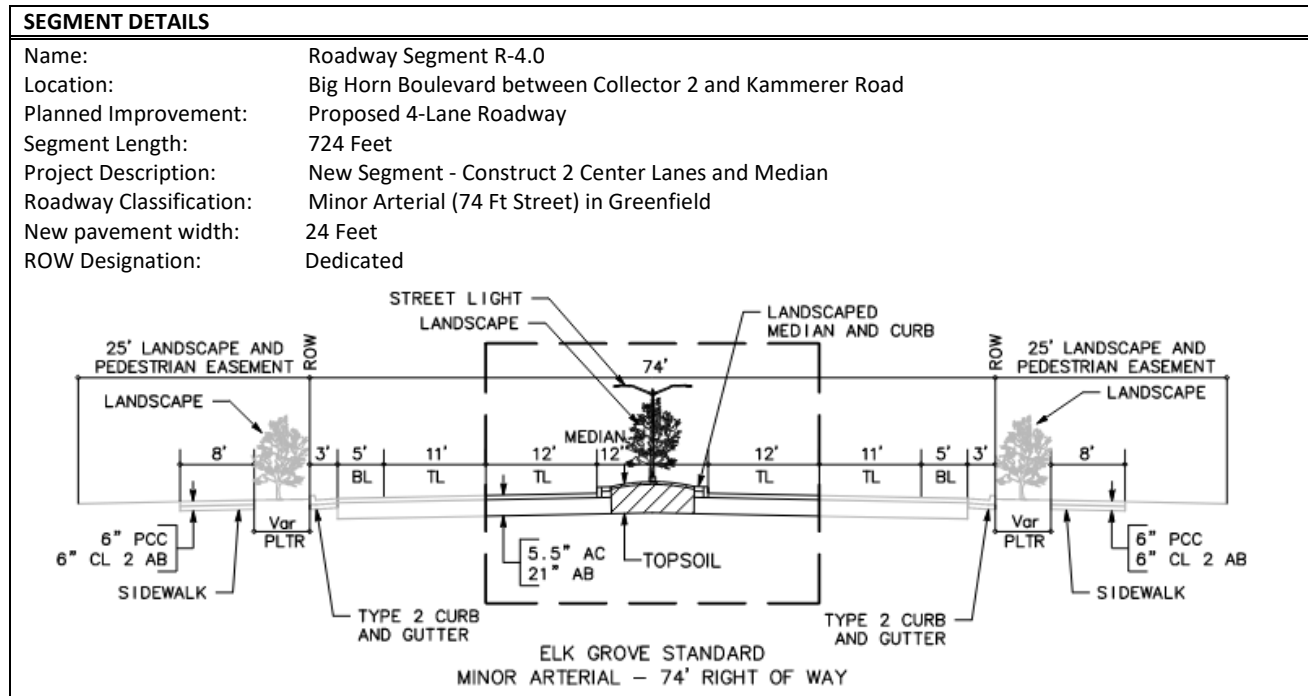
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$0.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$0.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$0.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,960	\$58,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$58,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	724	\$72,400.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$72,400.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	620	\$55,800.00
3.2	AGGREGATE BASE	CY	\$60.00	1,130	\$67,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,448	\$24,616.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$148,216.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-4.0
Location:	Big Horn Boulevard between Collector 2 and Kammerer Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	724 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	724	\$40,544.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	5,792	\$57,920.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$138,464.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$41,788.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$41,788.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$459,668.00
			CONTINGENCY: 20%	→	\$92,000.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$551,668.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$82,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$55,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$138,000.00</b>

**TOTAL PROJECT COST \*:** \$689,670.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-4.0
Location:	Big Horn Boulevard between Collector 2 and Kammerer Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	724 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$11,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$11,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$16,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$16,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$27,700.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-5.0
Location:	Big Timber between Elk Grove Boulevard and Civic Center Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	380 Feet
Project Description:	New Segment - Extend Street (gap segment) 2 lane commercial. Construct full roadway from back of walk to back of walk. Typical section based on City Concept Plan.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	60 Feet
ROW Designation:	Dedicated

ELEVATE PROJECT  
BIG TIMBER DRIVE SECTION

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,580	\$47,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$47,400.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	380	\$38,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$38,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	500	\$45,000.00
3.2	AGGREGATE BASE	CY	\$60.00	1,130	\$67,800.00
3.3	SIDEWALK	SF	\$12.00	7,600	\$91,200.00
3.4	CURB & GUTTER	LF	\$45.00	760	\$34,200.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$238,200.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-5.0
Location:	Big Timber between Elk Grove Boulevard and Civic Center Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	380 Feet
Project Description:	New Segment - Extend Street (gap segment) 2 lane commercial. Construct full roadway from back of walk to back of walk. Typical section based on City Concept Plan.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	60 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	2,920	\$29,200.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$69,200.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$39,280.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$39,280.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$432,080.00
			CONTINGENCY: 20%	→	\$86,500.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$518,580.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$77,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$51,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$129,700.00</b>

**TOTAL PROJECT COST \*:**      **\$648,280.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-5.0
Location:	Big Timber between Elk Grove Boulevard and Civic Center Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	380 Feet
Project Description:	New Segment - Extend Street (gap segment) 2 lane commercial. Construct full roadway from back of walk to back of walk. Typical section based on City Concept Plan.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	60 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$10,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$10,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$15,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$15,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$26,000.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-6.0
Location:	Bilby Road between Bruceville Road and Big Horn
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,059 Feet
Project Description:	Existing Segment - Construct Landscaping and Lighting Only. Roadway has been constructed. Deduction in segment length for I-7.0 (Bilby Rd & Tillia Rd)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-6.0
Location:	Bilby Road between Bruceville Road and Big Horn
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,059 Feet
Project Description:	Existing Segment - Construct Landscaping and Lighting Only. Roadway has been constructed. Deduction in segment length for I-7.0 (Bilby Rd & Tillia Rd)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	14	\$140,000.00
4.5	LANDSCAPING	SF	\$10.00	24,472	\$244,720.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$384,720.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$38,472.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$38,472.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$423,192.00
			CONTINGENCY: 20%	→	\$84,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$507,892.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$76,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$50,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$127,000.00</b>

**TOTAL PROJECT COST \*:**      **\$634,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-6.0
Location:	Bilby Road between Bruceville Road and Big Horn
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,059 Feet
Project Description:	Existing Segment - Construct Landscaping and Lighting Only. Roadway has been constructed. Deduction in segment length for I-7.0 (Bilby Rd & Tillia Rd)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

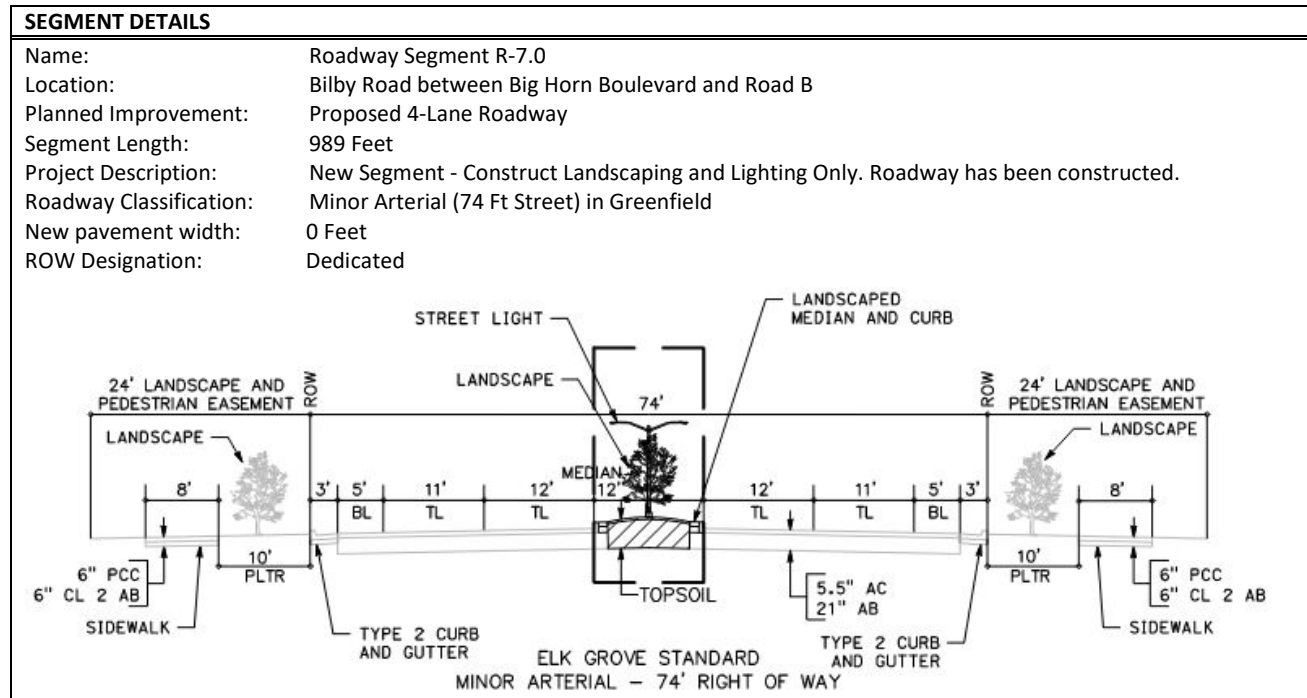
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$10,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$10,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$15,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$15,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$25,500.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-7.0
Location:	Bilby Road between Big Horn Boulevard and Road B
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	989 Feet
Project Description:	New Segment - Construct Landscaping and Lighting Only. Roadway has been constructed.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	5	\$50,000.00
4.5	LANDSCAPING	SF	\$10.00	7,912	\$79,120.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$129,120.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$12,912.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$12,912.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$142,032.00
			CONTINGENCY: 20%	→	\$28,500.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$170,532.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$25,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$17,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$42,700.00</b>

**TOTAL PROJECT COST \*:**      **\$213,240.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-7.0
Location:	Bilby Road between Big Horn Boulevard and Road B
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	989 Feet
Project Description:	New Segment - Construct Landscaping and Lighting Only. Roadway has been constructed.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

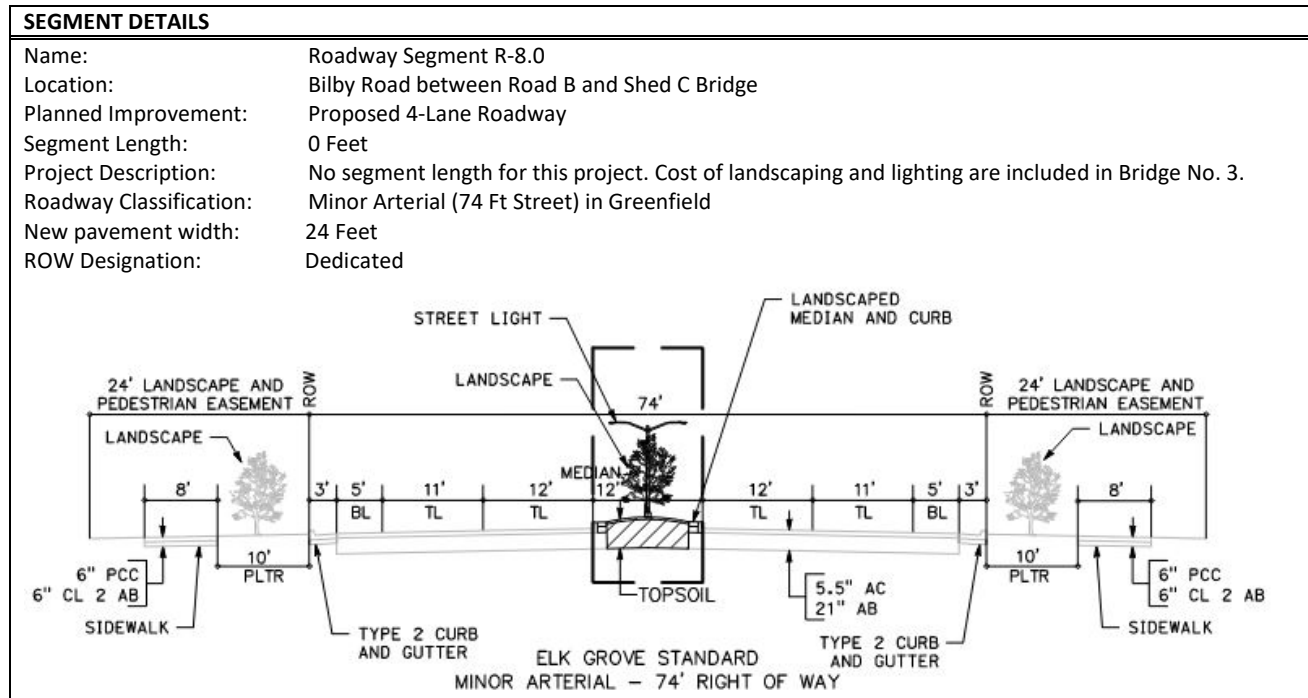
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$3,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$3,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$5,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$5,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):      \$8,700.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-8.0
Location:	Bilby Road between Road B and Shed C Bridge
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No segment length for this project. Cost of landscaping and lighting are included in Bridge No. 3.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$0.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$0.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$0.00
			CONTINGENCY: 20%	→	\$0.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$0.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$0.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$0.00</b>

**TOTAL PROJECT COST \*:** **\$0.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-8.0
Location:	Bilby Road between Road B and Shed C Bridge
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No segment length for this project. Cost of landscaping and lighting are included in Bridge No. 3.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

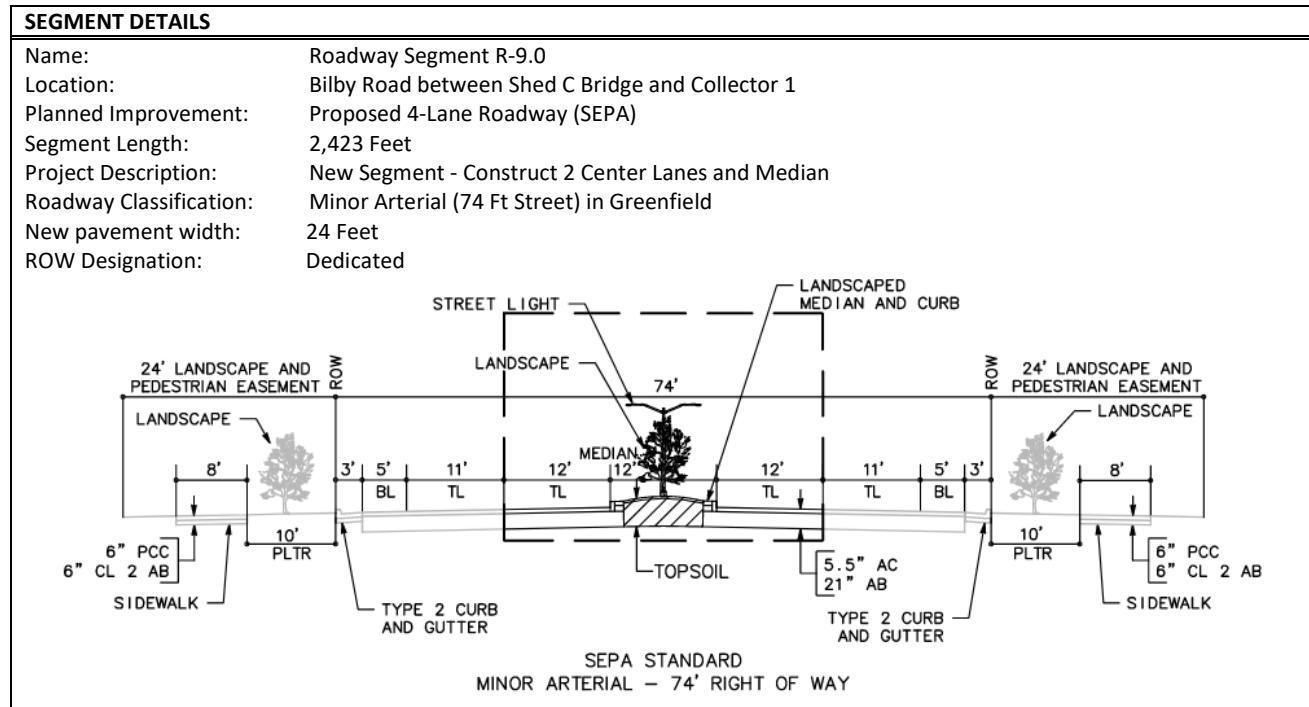
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$0.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$0.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$0.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,560	\$196,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$196,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	2,423	\$242,300.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$242,300.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,070	\$186,300.00
3.2	AGGREGATE BASE	CY	\$60.00	3,770	\$226,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	4,846	\$82,382.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$494,882.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-9.0
Location:	Bilby Road between Shed C Bridge and Collector 1
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	2,423 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,423	\$135,688.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.5	LANDSCAPING	SF	\$10.00	19,384	\$193,840.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$449,528.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$138,351.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$138,351.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,521,861.00
			CONTINGENCY: 20%	→	\$304,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,826,261.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$274,000.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$182,700.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$456,700.00</b>

**TOTAL PROJECT COST \*: \$2,282,970.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-9.0
Location:	Bilby Road between Shed C Bridge and Collector 1
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	2,423 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

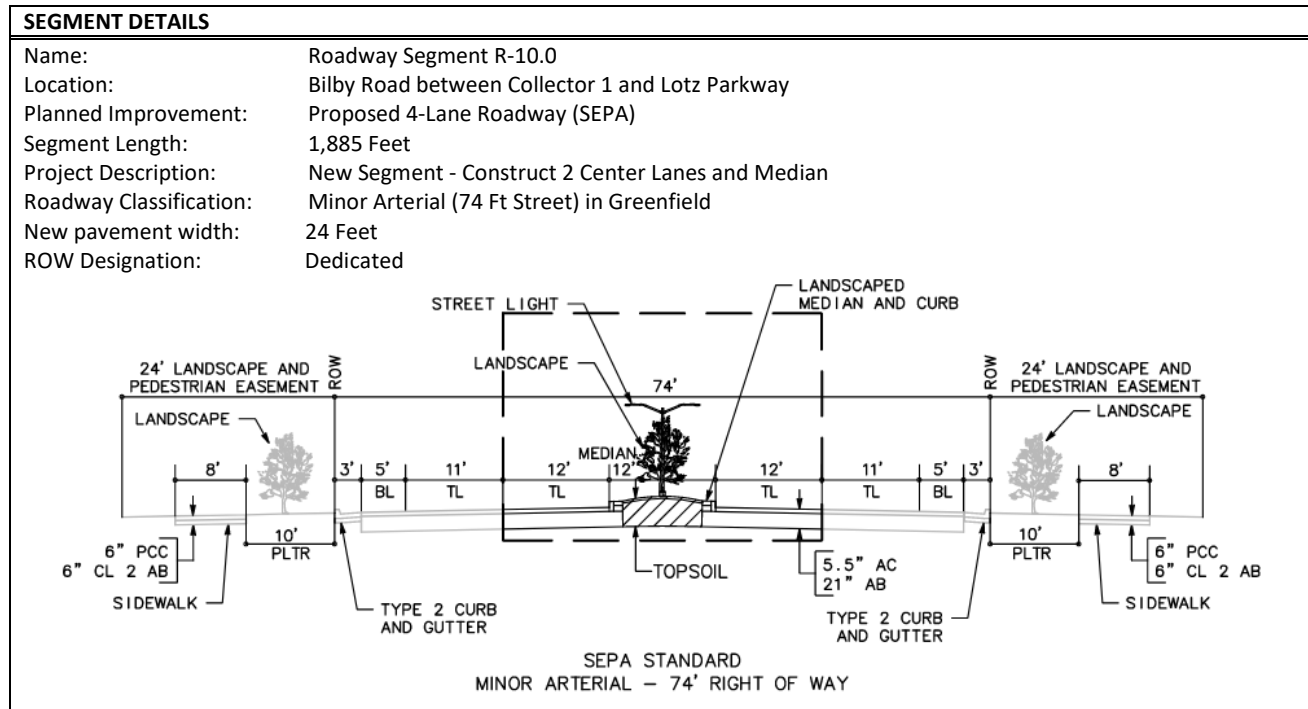
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$36,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$36,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$54,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$54,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$91,400.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,100	\$153,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$153,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,885	\$188,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$188,500.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,610	\$144,900.00
3.2	AGGREGATE BASE	CY	\$60.00	2,940	\$176,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	3,770	\$64,090.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$385,390.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-10.0
Location:	Bilby Road between Collector 1 and Lotz Parkway
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	1,885 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,885	\$105,560.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	9	\$90,000.00
4.5	LANDSCAPING	SF	\$10.00	15,080	\$150,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$346,360.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$107,325.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$107,325.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,180,575.00
			CONTINGENCY: 20%	→	\$236,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,416,775.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$212,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$141,700.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$354,300.00</b>

**TOTAL PROJECT COST \*: \$1,771,080.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-10.0
Location:	Bilby Road between Collector 1 and Lotz Parkway
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	1,885 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

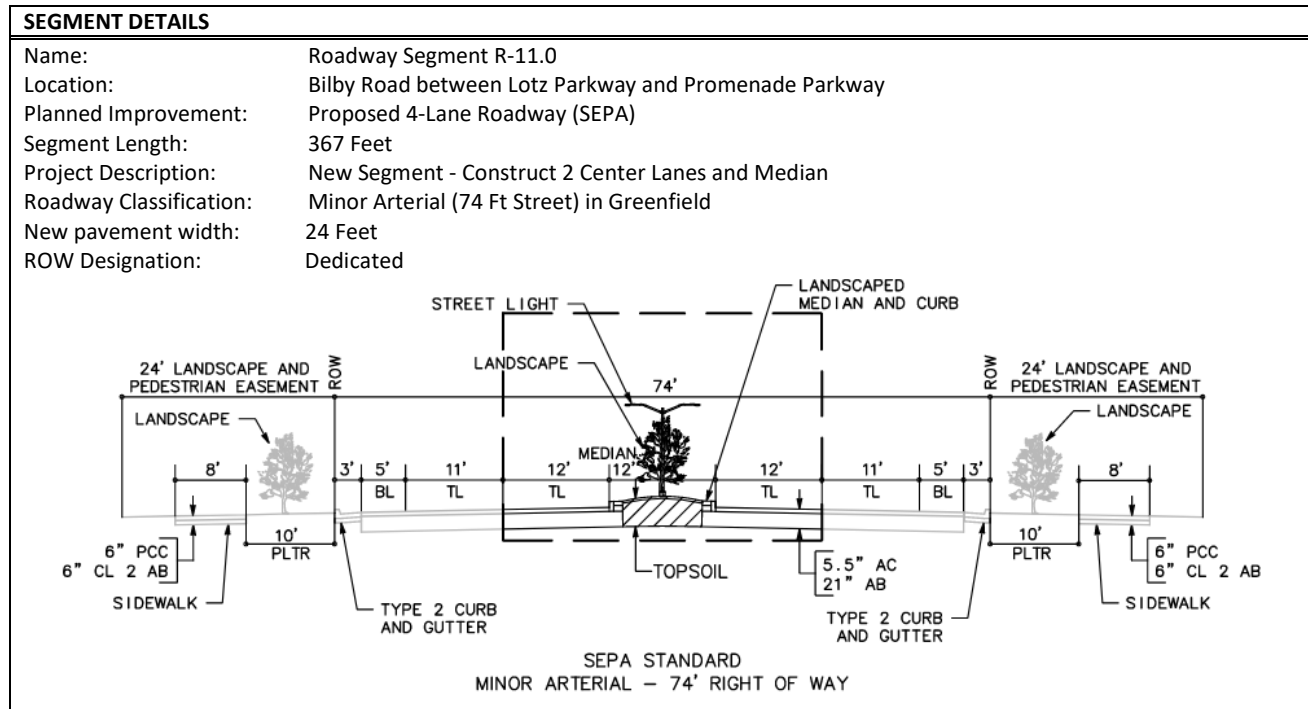
<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$28,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$28,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$42,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$42,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$71,000.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,000	\$30,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$30,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	367	\$36,700.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$36,700.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	320	\$28,800.00
3.2	AGGREGATE BASE	CY	\$60.00	580	\$34,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	734	\$12,478.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$76,078.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-11.0
Location:	Bilby Road between Lotz Parkway and Promenade Parkway
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	367 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	367	\$20,552.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	2,936	\$29,360.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$69,912.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$21,269.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$21,269.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$233,959.00
			CONTINGENCY: 20%	→	\$46,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$280,759.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$42,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$28,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$70,300.00</b>

**TOTAL PROJECT COST \*:** \$351,060.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-11.0
Location:	Bilby Road between Lotz Parkway and Promenade Parkway
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	367 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$5,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$5,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$8,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$8,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$14,200.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-12.0
Location:	Bond Road between E. Stockton Boulevard and Elk Grove-Florin Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	1,700 Feet
Project Description:	Existing Segment - Construct Raised Median
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

ELK GROVE STANDARD  
MAJOR ARTERIAL – 96' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,260	\$37,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$37,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	3,400	\$57,800.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$57,800.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-12.0
Location:	Bond Road between E. Stockton Boulevard and Elk Grove-Florin Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	1,700 Feet
Project Description:	Existing Segment - Construct Raised Median
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	13,600	\$136,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$136,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$23,160.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$23,160.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$254,760.00
			CONTINGENCY: 20%	→	\$51,000.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$305,760.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$45,900.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$30,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$76,500.00</b>

**TOTAL PROJECT COST \*:**      **\$382,260.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-12.0
Location:	Bond Road between E. Stockton Boulevard and Elk Grove-Florin Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	1,700 Feet
Project Description:	Existing Segment - Construct Raised Median
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$6,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$6,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$9,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$9,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$15,400.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-13.0
Location:	Bradshaw Road between Bond Road and Stone Springs Drive/Kapalua Ln
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,694 Feet
Project Description:	Existing Segment - Widen road to full width for gap closures. Gap closure is 353' in length and 21' of widening.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,060	\$31,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$31,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	353	\$35,300.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$35,300.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	490	\$44,100.00
3.2	AGGREGATE BASE	CY	\$60.00	560	\$33,600.00
3.3	SIDEWALK	SF	\$12.00	2,824	\$33,888.00
3.4	CURB & GUTTER	LF	\$45.00	353	\$15,885.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$127,473.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-13.0
Location:	Bradshaw Road between Bond Road and Stone Springs Drive/Kapalua Ln
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,694 Feet
Project Description:	Existing Segment - Widen road to full width for gap closures. Gap closure is 353' in length and 21' of widening.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	353	\$19,768.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	6,001	\$60,010.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$99,778.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$29,436.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$29,436.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$323,787.00
			CONTINGENCY: 20%	→	\$64,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$388,587.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$58,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$38,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$97,200.00</b>

**TOTAL PROJECT COST \*:** \$485,790.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-13.0
Location:	Bradshaw Road between Bond Road and Stone Springs Drive/Kapalua Ln
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,694 Feet
Project Description:	Existing Segment - Widen road to full width for gap closures. Gap closure is 353' in length and 21' of widening.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	8,455	\$19,024.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	353	\$14,120.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$3,315.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$36,459.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$7,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$7,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$11,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$11,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$55,959.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-14.0
Location:	Bradshaw Road between Stone Springs Drive/Kapalua Ln and Elk Grove Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,110 Feet
Project Description:	Existing Segment - Widen to full width for gap closures. NB side will require widening for entire segment, SB side for 831'. 12' of pavement widening will be required on each side.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,610	\$198,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$198,300.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	831	\$83,100.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$83,100.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,330	\$209,700.00
3.2	AGGREGATE BASE	CY	\$60.00	2,890	\$173,400.00
3.3	SIDEWALK	SF	\$12.00	23,528	\$282,336.00
3.4	CURB & GUTTER	LF	\$45.00	2,941	\$132,345.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$797,781.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-14.0
Location:	Bradshaw Road between Stone Springs Drive/Kapalua Ln and Elk Grove Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,110 Feet
Project Description:	Existing Segment - Widen to full width for gap closures. NB side will require widening for entire segment, SB side for 831'. 12' of pavement widening will be required on each side.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	831	\$46,536.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	49,997	\$499,970.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$646,506.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$172,569.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$172,569.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,898,256.00
			CONTINGENCY: 20%	→	\$379,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,277,956.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$341,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$227,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$569,500.00</b>

**TOTAL PROJECT COST \*:** \$2,847,460.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-14.0
Location:	Bradshaw Road between Stone Springs Drive/Kapalua Ln and Elk Grove Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,110 Feet
Project Description:	Existing Segment - Widen to full width for gap closures. NB side will require widening for entire segment, SB side for 831'. 12' of pavement widening will be required on each side.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	68,305	\$153,687.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	2,110	\$84,400.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$23,809.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$261,896.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$45,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$45,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$68,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$68,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$375,896.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-15.0
Location:	Bradshaw Road between Elk Grove Boulevard and Ridgerock Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,148 Feet
Project Description:	Existing Segment - Widen to full width. NB gap closure will be 16' wide with a length of 675'. The SB gap closure will be 8' wide with a length of 473'.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,380	\$71,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$71,400.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,148	\$114,800.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$114,800.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	4,380	\$394,200.00
3.2	AGGREGATE BASE	CY	\$60.00	1,180	\$70,800.00
3.3	SIDEWALK	SF	\$12.00	9,184	\$110,208.00
3.4	CURB & GUTTER	LF	\$45.00	1,148	\$51,660.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$626,868.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-15.0
Location:	Bradshaw Road between Elk Grove Boulevard and Ridgerock Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,148 Feet
Project Description:	Existing Segment - Widen to full width. NB gap closure will be 16' wide with a length of 675'. The SB gap closure will be 8' wide with a length of 473'.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,148	\$64,288.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	6	\$60,000.00
4.5	LANDSCAPING	SF	\$10.00	19,516	\$195,160.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$319,448.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$113,252.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$113,252.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,245,768.00
			CONTINGENCY: 20%	→	\$249,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,494,968.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$224,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$149,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$373,800.00</b>

**TOTAL PROJECT COST \*:** \$1,868,770.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-15.0
Location:	Bradshaw Road between Elk Grove Boulevard and Ridgerock Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,148 Feet
Project Description:	Existing Segment - Widen to full width. NB gap closure will be 16' wide with a length of 675'. The SB gap closure will be 8' wide with a length of 473'.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

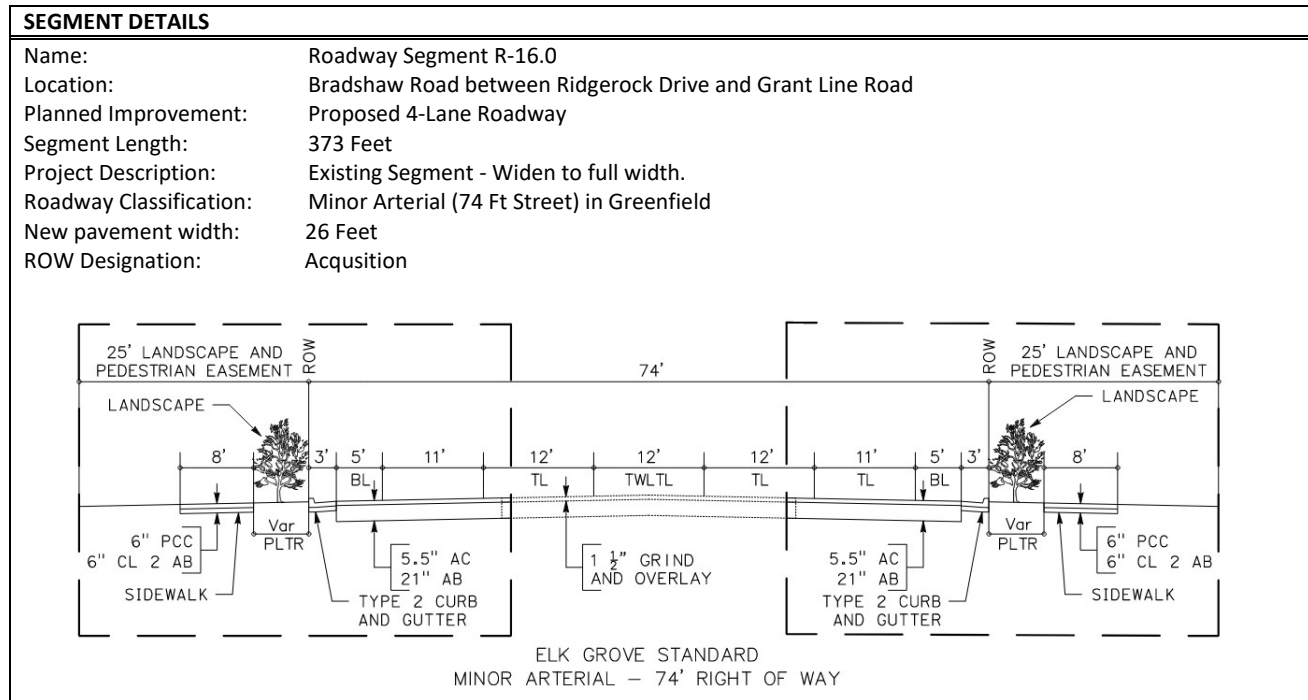
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	17,656	\$39,726.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	1,148	\$45,920.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$8,565.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$94,211.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$29,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$29,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$44,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$44,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$169,011.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,720	\$51,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$51,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	373	\$37,300.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$37,300.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	490	\$44,100.00
3.2	AGGREGATE BASE	CY	\$60.00	790	\$47,400.00
3.3	SIDEWALK	SF	\$12.00	5,968	\$71,616.00
3.4	CURB & GUTTER	LF	\$45.00	746	\$33,570.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$196,686.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-16.0
Location:	Bradshaw Road between Ridgerock Drive and Grant Line Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	373 Feet
Project Description:	Existing Segment - Widen to full width.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	26 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	373	\$20,888.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	12,682	\$126,820.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$167,708.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$45,330.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$45,330.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$498,624.00
			CONTINGENCY: 20%	→	\$99,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$598,424.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$89,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$59,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$149,700.00</b>

**TOTAL PROJECT COST \*:**      **\$748,130.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-16.0
Location:	Bradshaw Road between Ridgerock Drive and Grant Line Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	373 Feet
Project Description:	Existing Segment - Widen to full width.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	26 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	7,072	\$15,912.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	373	\$14,920.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$3,084.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$33,916.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$12,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$12,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$18,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$18,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$63,916.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-17.0
Location:	Bruceville Road between Sheldon Road and Big Horn Boulevard
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	2,575 Feet
Project Description:	Existing Segment - Widen from 4 to 6 Lanes. Fee program includes frontage improvements and street lights. 580' of sidewalk on SB side has been constructed.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	22 Feet
ROW Designation:	Dedicated

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	12,780	\$383,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$383,400.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	2,575	\$257,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$257,500.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,380	\$304,200.00
3.2	AGGREGATE BASE	CY	\$60.00	3,970	\$238,200.00
3.3	SIDEWALK	SF	\$12.00	36,560	\$438,720.00
3.4	CURB & GUTTER	LF	\$45.00	4,570	\$205,650.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,186,770.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-17.0
Location:	Bruceville Road between Sheldon Road and Big Horn Boulevard
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	2,575 Feet
Project Description:	Existing Segment - Widen from 4 to 6 Lanes. Fee program includes frontage improvements and street lights. 580' of sidewalk on SB side has been constructed.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	22 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,575	\$144,200.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	127,960	\$1,279,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,523,800.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$335,147.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$335,147.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$3,686,617.00
			CONTINGENCY: 20%	→	\$737,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$4,424,017.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$663,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$442,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,106,200.00</b>

**TOTAL PROJECT COST \*:** \$5,530,220.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-17.0
Location:	Bruceville Road between Sheldon Road and Big Horn Boulevard
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	2,575 Feet
Project Description:	Existing Segment - Widen from 4 to 6 Lanes. Fee program includes frontage improvements and street lights. 580' of sidewalk on SB side has been constructed.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	22 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$442,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$442,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$221,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$221,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$663,800.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-18.0
Location:	Bruceville Road between Big Horn Boulevard and Laguna Boulevard
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	1,600 Feet
Project Description:	Existing Segment - Widening road to Back of Curb for gap closure, resurfacing and restripe entire limits. Gap closure is 225' in length and 16' of widening.
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

ELK GROVE STANDARD  
MAJOR ARTERIAL - 96' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	350	\$10,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$10,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,720	\$154,800.00
3.2	AGGREGATE BASE	CY	\$60.00	270	\$16,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	225	\$10,125.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$181,125.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-18.0
Location:	Bruceville Road between Big Horn Boulevard and Laguna Boulevard
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	1,600 Feet
Project Description:	Existing Segment - Widening road to Back of Curb for gap closure, resurfacing and restripe entire limits. Gap closure is 225' in length and 16' of widening.
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$74,562.50
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$74,562.50</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$266,188.00
			CONTINGENCY: 20%	→	\$53,300.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$319,488.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$48,000.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$32,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$80,000.00</b>

**TOTAL PROJECT COST \*:**      **\$399,490.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-18.0
Location:	Bruceville Road between Big Horn Boulevard and Laguna Boulevard
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	1,600 Feet
Project Description:	Existing Segment - Widening road to Back of Curb for gap closure, resurfacing and restripe entire limits. Gap closure is 225' in length and 16' of widening.
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$6,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$6,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$9,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$9,600.00</b>

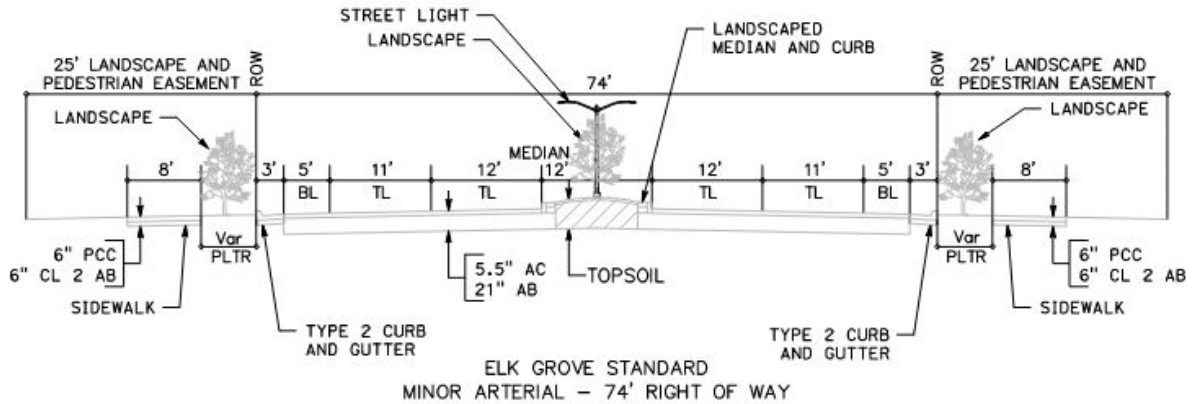
**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$16,000.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

Name: Roadway Segment R-19.0  
 Location: Bruceville Road between Whitelock Parkway and Poppy Ridge Road  
 Planned Improvement: Proposed 4-Lane Roadway  
 Segment Length: 270 Feet  
 Project Description: Existing Segment - Restripe for 4 lanes, resurface entire limits  
 Roadway Classification: Minor Arterial (74 Ft Street) in Developed  
 New pavement width: 0 Feet  
 ROW Designation: Dedicated



### 1 EARTHWORK

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

### 2 DRAINAGE

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

### 3 PAVEMENT

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	170	\$15,300.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$15,300.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-19.0
Location:	Bruceville Road between Whitelock Parkway and Poppy Ridge Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	270 Feet
Project Description:	Existing Segment - Restripe for 4 lanes, resurface entire limits
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$17,610.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$17,610.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$32,910.00
			CONTINGENCY: 20%	→	\$6,600.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$39,510.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$6,000.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$4,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$10,000.00</b>

**TOTAL PROJECT COST \*:** \$49,510.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-19.0
Location:	Bruceville Road between Whitelock Parkway and Poppy Ridge Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	270 Feet
Project Description:	Existing Segment - Restripe for 4 lanes, resurface entire limits
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$1,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$1,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):      \$2,000.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-20.0
Location:	Bruceville Road between Poppy Ridge Road and Machado Ranch Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	440 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line. Easement required at single family home on SB side.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,850	\$55,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$55,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	380	\$34,200.00
3.2	AGGREGATE BASE	CY	\$60.00	690	\$41,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	880	\$14,960.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$90,560.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-20.0
Location:	Bruceville Road between Poppy Ridge Road and Machado Ranch Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	440 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line. Easement required at single family home on SB side.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	440	\$24,640.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	14,080	\$140,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$185,440.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$33,150.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$33,150.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$364,650.00
			CONTINGENCY: 20%	→	\$73,000.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$437,650.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$65,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$43,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$109,500.00</b>

**TOTAL PROJECT COST \*:**     **\$547,150.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-20.0
Location:	Bruceville Road between Poppy Ridge Road and Machado Ranch Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	440 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line. Easement required at single family home on SB side.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	4,399	\$40,691.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	170	\$20,400.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$6,110.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$67,201.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	20%	CON. COST	\$87,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$87,600.00</b>

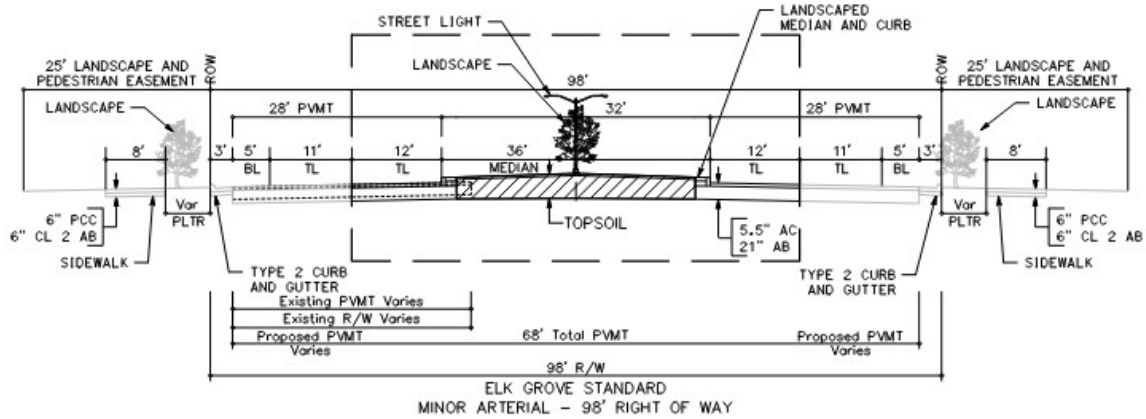
<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$13,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$13,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$168,001.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

Name: Roadway Segment R-21.0  
 Location: Bruceville Road between Machado Ranch Drive and Boa Nova Drive  
 Planned Improvement: Proposed 4-Lane Roadway  
 Segment Length: 315 Feet  
 Project Description: Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line.  
 Roadway Classification: Minor Arterial (74 Ft Street) in Developed  
 New pavement width: 24 Feet  
 ROW Designation: Dedicated



### 1 EARTHWORK

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,320	\$39,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$39,600.00</b>

### 2 DRAINAGE

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

### 3 PAVEMENT

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	270	\$24,300.00
3.2	AGGREGATE BASE	CY	\$60.00	490	\$29,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	630	\$10,710.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$64,410.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-21.0
Location:	Bruceville Road between Machado Ranch Drive and Boa Nova Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	315 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	315	\$17,640.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	10,080	\$100,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$138,440.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$24,245.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$24,245.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$266,695.00
			CONTINGENCY: 20%	→	\$53,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$320,095.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$48,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$32,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$80,200.00</b>

**TOTAL PROJECT COST \*:**      **\$400,300.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-21.0
Location:	Bruceville Road between Machado Ranch Drive and Boa Nova Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	315 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	20%	CON. COST	\$64,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$64,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$9,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$9,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$73,800.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-22.0
Location:	Bruceville Road between Boa Nova Drive and Bilby Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	350 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line. Assuming section in front of apartments (165' in length) is constructed and will be estimated for 36' median, utility relocation, resurfacing and restriping only.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Dedicated

ELK GROVE STANDARD  
MINOR ARTERIAL – 98' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,150	\$34,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$34,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	260	\$23,400.00
3.2	AGGREGATE BASE	CY	\$60.00	290	\$17,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	700	\$11,900.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$52,700.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-22.0
Location:	Bruceville Road between Boa Nova Drive and Bilby Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	350 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line. Assuming section in front of apartments (165' in length) is constructed and will be estimated for 36' median, utility relocation, resurfacing and restriping only.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	350	\$19,600.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	11,200	\$112,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$151,600.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$28,290.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$28,290.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$267,090.00
			CONTINGENCY: 20%	→	\$53,500.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$320,590.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$48,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$32,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$80,200.00</b>

**TOTAL PROJECT COST \*:**      **\$400,790.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-22.0
Location:	Bruceville Road between Boa Nova Drive and Bilby Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	350 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Relocate 69kV line. Assuming section in front of apartments (165' in length) is constructed and will be estimated for 36' median, utility relocation, resurfacing and restriping only.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	20%	CON. COST	\$64,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$64,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$9,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$9,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$73,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-23.0
Location:	Bruceville Road between Bilby Road and Shed C Culvert
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	1,736 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Existing roadway is within 36' median and will need to be removed. Increased minor items for additional traffic control costs and utility relocation for relocating 69kV line and force main.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	7,270	\$218,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$218,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,736	\$173,600.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$173,600.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,480	\$133,200.00
3.2	AGGREGATE BASE	CY	\$60.00	2,710	\$162,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	3,472	\$59,024.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$354,824.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-23.0
Location:	Bruceville Road between Bilby Road and Shed C Culvert
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	1,736 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Existing roadway is within 36' median and will need to be removed. Increased minor items for additional traffic control costs and utility relocation for relocating 69kV line and force main.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,736	\$97,216.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	8	\$80,000.00
4.5	LANDSCAPING	SF	\$10.00	55,552	\$555,520.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$732,736.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	15%	Sections 1-4	\$221,889.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$221,889.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,701,149.00
			CONTINGENCY: 20%	→	\$340,300.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,041,449.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$306,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$204,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$510,500.00</b>

**TOTAL PROJECT COST \*:** \$2,551,950.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-23.0
Location:	Bruceville Road between Bilby Road and Shed C Culvert
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	1,736 Feet
Project Description:	Existing Segment - Construct 2 Center Lanes and 36' Median. Existing roadway is within 36' median and will need to be removed. Increased minor items for additional traffic control costs and utility relocation for relocating 69kV line and force main.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	40,697	\$91,569.00
9.2	EASEMENT	SF	\$2.25	43,351	\$97,540.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,736	\$69,440.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$25,855.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$284,404.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	25%	CON. COST	\$510,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$510,400.00</b>

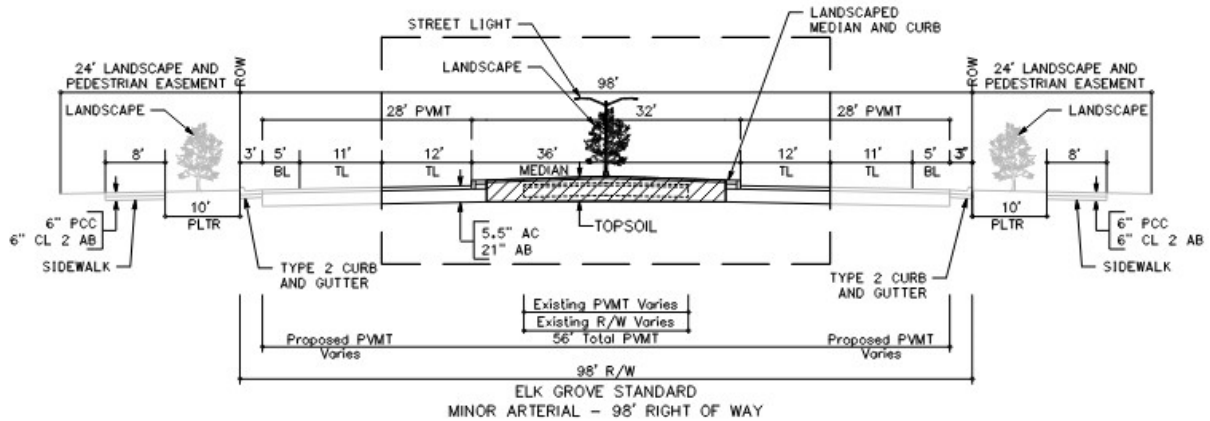
<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$61,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$61,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$856,104.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

Name: Roadway Segment R-24.0  
 Location: Bruceville Road between Shed C Culvert and New Kammerer  
 Planned Improvement: Proposed 4-Lane Roadway (SEPA)  
 Segment Length: 0 Feet  
 Project Description: No Project Cost - R-24.0 costs are split between I-39 and B-5  
 Roadway Classification: Minor Arterial (74 Ft Street) in Greenfield  
 New pavement width: 24 Feet  
 ROW Designation: Dedicated



### 1 EARTHWORK

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

### 2 DRAINAGE

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

### 3 PAVEMENT

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-24.0
Location:	Bruceville Road between Shed C Culvert and New Kammerer
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	0 Feet
Project Description:	No Project Cost - R-24.0 costs are split between I-39 and B-5
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$0.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$0.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$0.00
			CONTINGENCY: 20%	→	\$0.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$0.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$0.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$0.00</b>

**TOTAL PROJECT COST \*:** **\$0.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-24.0
Location:	Bruceville Road between Shed C Culvert and New Kammerer
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	0 Feet
Project Description:	No Project Cost - R-24.0 costs are split between I-39 and B-5
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	20%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$0.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$0.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$0.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-25.0
Location:	Calvine Road between Cliffcrest Drive and Elk Grove-Florin Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	4,103 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes. Full width improvements for gap closures. Deduction in overall length for Calvine Rd Grade Separation Project (G-3.0). Existing pavement width at gap closures is 28' from median to edge of pavement. Total
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,050	\$121,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$121,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,370	\$137,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$137,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,170	\$105,300.00
3.2	AGGREGATE BASE	CY	\$60.00	1,500	\$90,000.00
3.3	SIDEWALK	SF	\$12.00	13,700	\$164,400.00
3.4	CURB & GUTTER	LF	\$45.00	1,370	\$61,650.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$421,350.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-25.0
Location:	Calvine Road between Cliffcrest Drive and Elk Grove-Florin Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	4,103 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes. Full width improvements for gap closures. Deduction in overall length for Calvine Rd Grade Separation Project (G-3.0). Existing pavement width at gap closures is 28' from median to edge of pavement. Total
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,370	\$76,720.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	6	\$60,000.00
4.5	LANDSCAPING	SF	\$10.00	35,620	\$356,200.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$492,920.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$117,277.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$117,277.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,290,047.00
			CONTINGENCY: 20%	→	\$258,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,548,147.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$232,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$154,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$387,200.00</b>

**TOTAL PROJECT COST \*:** \$1,935,350.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-25.0
Location:	Calvine Road between Cliffcrest Drive and Elk Grove-Florin Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	4,103 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes. Full width improvements for gap closures. Deduction in overall length for Calvine Rd Grade Separation Project (G-3.0). Existing pavement width at gap closures is 28' from median to edge of pavement. Total
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	63,000	\$582,750.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	1,370	\$164,400.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$74,715.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$821,865.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$31,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$31,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$46,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$46,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$899,365.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-26.0
Location:	Calvine Road between Elk Grove-Florin Road and Waterman Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	3,110 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes. Full width improvements for gap closures. Existing pavement width at gap closures is 28' from median to edge of pavement. Total length of gap closures is 1320'
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
MINOR ARTERIAL – 96' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,770	\$203,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$203,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,320	\$132,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$132,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,130	\$101,700.00
3.2	AGGREGATE BASE	CY	\$60.00	1,450	\$87,000.00
3.3	SIDEWALK	SF	\$12.00	13,200	\$158,400.00
3.4	CURB & GUTTER	LF	\$45.00	1,320	\$59,400.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$406,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-26.0
Location:	Calvine Road between Elk Grove-Florin Road and Waterman Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	3,110 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes. Full width improvements for gap closures. Existing pavement width at gap closures is 28' from median to edge of pavement. Total length of gap closures is 1320'
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,320	\$73,920.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	6	\$60,000.00
4.5	LANDSCAPING	SF	\$10.00	34,320	\$343,200.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$477,120.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$121,872.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$121,872.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,340,592.00
			CONTINGENCY: 20%	→	\$268,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,608,792.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$241,400.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$160,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$402,300.00</b>

**TOTAL PROJECT COST \*:** \$2,011,100.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-26.0
Location:	Calvine Road between Elk Grove-Florin Road and Waterman Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	3,110 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes. Full width improvements for gap closures. Existing pavement width at gap closures is 28' from median to edge of pavement. Total length of gap closures is 1320'
Roadway Classification:	Major Arterial (96 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	53,130	\$491,453.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	1,320	\$158,400.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$64,986.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$714,839.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$32,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$32,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$48,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$48,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$795,339.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-27.0
Location:	Collector 1 between Kammerer Road and Bilby Road
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	510 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

SEPA STANDARD  
COLLECTOR – 52' RIGHT OF WAY  
CURB TO CURB

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,490	\$44,700.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$44,700.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	510	\$51,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$51,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	450	\$40,500.00
3.2	AGGREGATE BASE	CY	\$60.00	920	\$55,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	1,020	\$45,900.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,020	\$17,340.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$158,940.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-27.0
Location:	Collector 1 between Kammerer Road and Bilby Road
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	510 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	510	\$28,560.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	4,080	\$40,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$89,360.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$34,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$34,400.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$378,400.00
			CONTINGENCY: 20%	→	\$75,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$454,100.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$68,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$45,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$113,700.00</b>

**TOTAL PROJECT COST \*:**      **\$567,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-27.0
Location:	Collector 1 between Kammerer Road and Bilby Road
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	510 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	84,732	\$190,647.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	510	\$20,400.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$21,105.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$232,152.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$9,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$9,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$13,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$13,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$254,952.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-28.0
Location:	Collector 2 between Kammerer Road and Big Horn Boulevard
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	1,635 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated

SEPA STANDARD  
COLLECTOR – 52' RIGHT OF WAY  
CURB TO CURB

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,760	\$142,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$142,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,635	\$163,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$163,500.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,440	\$129,600.00
3.2	AGGREGATE BASE	CY	\$60.00	2,930	\$175,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	3,270	\$147,150.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	3,270	\$55,590.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$508,140.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-28.0
Location:	Collector 2 between Kammerer Road and Big Horn Boulevard
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	1,635 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,635	\$91,560.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	8	\$80,000.00
4.5	LANDSCAPING	SF	\$10.00	13,080	\$130,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$302,360.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$111,680.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$111,680.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,228,480.00
			CONTINGENCY: 20%	→	\$245,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,474,180.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$221,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$147,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$368,700.00</b>

**TOTAL PROJECT COST \*: \$1,842,880.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-28.0
Location:	Collector 2 between Kammerer Road and Big Horn Boulevard
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	1,635 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$29,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$29,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$44,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$44,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$73,800.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-29.0
Location:	Collector 2 between Big Horn Boulevard and Bilby Road
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	2,200 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

SEPA STANDARD  
COLLECTOR – 52' RIGHT OF WAY  
CURB TO CURB

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,400	\$192,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$192,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	2,200	\$220,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$220,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,940	\$174,600.00
3.2	AGGREGATE BASE	CY	\$60.00	3,940	\$236,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	4,400	\$198,000.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	4,400	\$74,800.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$683,800.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-29.0
Location:	Collector 2 between Big Horn Boulevard and Bilby Road
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	2,200 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,200	\$123,200.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	17,600	\$176,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$399,200.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$149,500.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$149,500.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,644,500.00
			CONTINGENCY: 20%	→	\$328,900.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,973,400.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$296,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$197,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$493,500.00</b>

**TOTAL PROJECT COST \*: \$2,466,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-29.0
Location:	Collector 2 between Big Horn Boulevard and Bilby Road
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	2,200 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	129,490	\$291,353.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	2,200	\$88,000.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$37,936.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$417,289.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$39,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$39,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$59,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$59,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$516,089.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-30.0
Location:	Collector 3 between Bilby Road and Lotz Parkway
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	1,994 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated

SEPA STANDARD  
COLLECTOR – 52' RIGHT OF WAY  
CURB TO CURB

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,800	\$174,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$174,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,994	\$199,400.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$199,400.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,760	\$158,400.00
3.2	AGGREGATE BASE	CY	\$60.00	3,570	\$214,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	3,988	\$179,460.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	3,988	\$67,796.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$619,856.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-30.0
Location:	Collector 3 between Bilby Road and Lotz Parkway
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	1,994 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,994	\$111,664.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	15,952	\$159,520.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$371,184.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$136,444.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$136,444.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,500,884.00
			CONTINGENCY: 20%	→	\$300,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,801,084.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$270,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$180,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$450,400.00</b>

**TOTAL PROJECT COST \*: \$2,251,490.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-30.0
Location:	Collector 3 between Bilby Road and Lotz Parkway
Planned Improvement:	Proposed 2-Lane Roadway (SEPA)
Segment Length:	1,994 Feet
Project Description:	New Segment - Construct from Back of Curb to Back of Curb
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$36,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$36,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$54,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$54,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$90,200.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-31.0
Location:	East Park Drive between Lockford Way and Waterman Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	190 Feet
Project Description:	New Segment - Extend Street (gap segment), 2 lanes residential
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	42 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
RESIDENTIAL - 48' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	570	\$17,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$17,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	190	\$19,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$19,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	210	\$18,900.00
3.2	AGGREGATE BASE	CY	\$60.00	400	\$24,000.00
3.3	SIDEWALK	SF	\$12.00	2,280	\$27,360.00
3.4	CURB & GUTTER	LF	\$45.00	380	\$17,100.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$87,360.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-31.0
Location:	East Park Drive between Lockford Way and Waterman Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	190 Feet
Project Description:	New Segment - Extend Street (gap segment), 2 lanes residential
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	42 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	190	\$10,640.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$30,640.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$15,410.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$15,410.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$169,510.00
			CONTINGENCY: 20%	→	\$34,000.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$203,510.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$30,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$20,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$51,000.00</b>

**TOTAL PROJECT COST \*:**      **\$254,510.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-31.0
Location:	East Park Drive between Lockford Way and Waterman Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	190 Feet
Project Description:	New Segment - Extend Street (gap segment), 2 lanes residential
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	42 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	11,400	\$105,450.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	190	\$22,800.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$12,825.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$141,075.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$4,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$4,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$6,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$6,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$151,375.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-32.0
Location:	Elevate Road A between Elk Grove Boulevard and Civic Center Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	820 Feet
Project Description:	New Segment - Construct median, and travel lane, bike lane, parking, curb & gutter, and sidewalk in each direction.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Dedicated

The diagram illustrates the cross-section of Avenue A Street. From left to right, it shows: a 20-foot sidewalk, a 3-foot parking area, an 8-foot bike lane (BL), a 5-foot travel lane (TL), a 10-foot travel lane (TL), a 49-foot to 102-foot center park area with a tree and 'LANDSCAPE' label, another 10-foot travel lane (TL), a 5-foot bike lane (BL), an 8-foot parking area, a 3-foot parking area, and a final 20-foot sidewalk. The total width is labeled as 'VAR (131'-184')'. Below the road surface, 'TYPE 2 CURB AND GUTTER' is indicated on both sides, and '6" PCC 6" CL 2 AB' is noted for the sidewalk areas.

**ELEVATE PROJECT  
AVENUE A STREET SECTION**

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,760	\$112,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$112,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	820	\$82,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$82,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	980	\$88,200.00
3.2	AGGREGATE BASE	CY	\$60.00	2,260	\$135,600.00
3.3	SIDEWALK	SF	\$12.00	16,400	\$196,800.00
3.4	CURB & GUTTER	LF	\$45.00	1,640	\$73,800.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$494,400.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-32.0
Location:	Elevate Road A between Elk Grove Boulevard and Civic Center Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	820 Feet
Project Description:	New Segment - Construct median, and travel lane, bike lane, parking, curb & gutter, and sidewalk in each direction.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	8	\$80,000.00
4.5	LANDSCAPING	SF	\$10.00	16,400	\$164,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$244,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$93,320.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$93,320.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,026,520.00
			CONTINGENCY: 20%	→	\$205,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,231,920.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$184,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$123,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$308,000.00</b>

**TOTAL PROJECT COST \*:** \$1,539,920.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-32.0
Location:	Elevate Road A between Elk Grove Boulevard and Civic Center Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	820 Feet
Project Description:	New Segment - Construct median, and travel lane, bike lane, parking, curb & gutter, and sidewalk in each direction.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

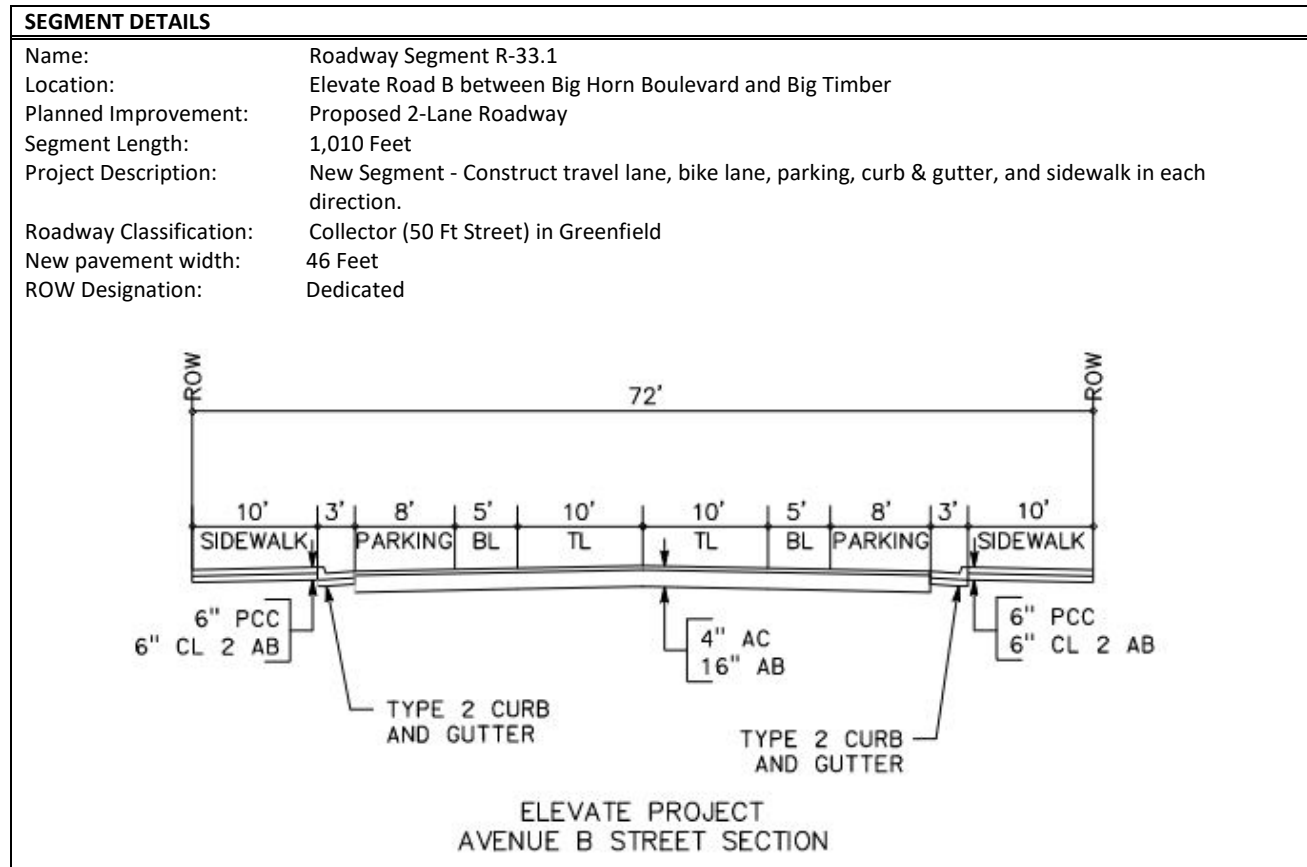
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$24,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$24,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$37,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$37,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$61,700.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,380	\$101,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$101,400.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,010	\$101,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$101,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,210	\$108,900.00
3.2	AGGREGATE BASE	CY	\$60.00	2,790	\$167,400.00
3.3	SIDEWALK	SF	\$12.00	20,200	\$242,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,020	\$90,900.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$609,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-33.1
Location:	Elevate Road B between Big Horn Boulevard and Big Timber
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	1,010 Feet
Project Description:	New Segment - Construct travel lane, bike lane, parking, curb & gutter, and sidewalk in each direction.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$100,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$91,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$91,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,003,200.00
			CONTINGENCY: 20%	→	\$200,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,203,900.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$180,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$120,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$301,000.00</b>

**TOTAL PROJECT COST \*:** \$1,504,900.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-33.1
Location:	Elevate Road B between Big Horn Boulevard and Big Timber
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	1,010 Feet
Project Description:	New Segment - Construct travel lane, bike lane, parking, curb & gutter, and sidewalk in each direction.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$24,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$24,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$36,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$36,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$60,300.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-33.2
Location:	Elevate Road B between Big Timber and Eastern Lot Line
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	350 Feet
Project Description:	New Segment - Construct travel lane, bike lane, parking, curb & gutter, and sidewalk in each direction.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Dedicated

**ELEVATE PROJECT  
AVENUE B STREET SECTION**

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,170	\$35,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$35,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	350	\$35,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$35,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	420	\$37,800.00
3.2	AGGREGATE BASE	CY	\$60.00	970	\$58,200.00
3.3	SIDEWALK	SF	\$12.00	7,000	\$84,000.00
3.4	CURB & GUTTER	LF	\$45.00	700	\$31,500.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$211,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-33.2
Location:	Elevate Road B between Big Timber and Eastern Lot Line
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	350 Feet
Project Description:	New Segment - Construct travel lane, bike lane, parking, curb & gutter, and sidewalk in each direction.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$40,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$32,160.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$32,160.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$353,760.00
			CONTINGENCY: 20%	→	\$70,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$424,560.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$63,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$42,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$106,200.00</b>

**TOTAL PROJECT COST \*:** \$530,760.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-33.2
Location:	Elevate Road B between Big Timber and Eastern Lot Line
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	350 Feet
Project Description:	New Segment - Construct travel lane, bike lane, parking, curb & gutter, and sidewalk in each direction.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

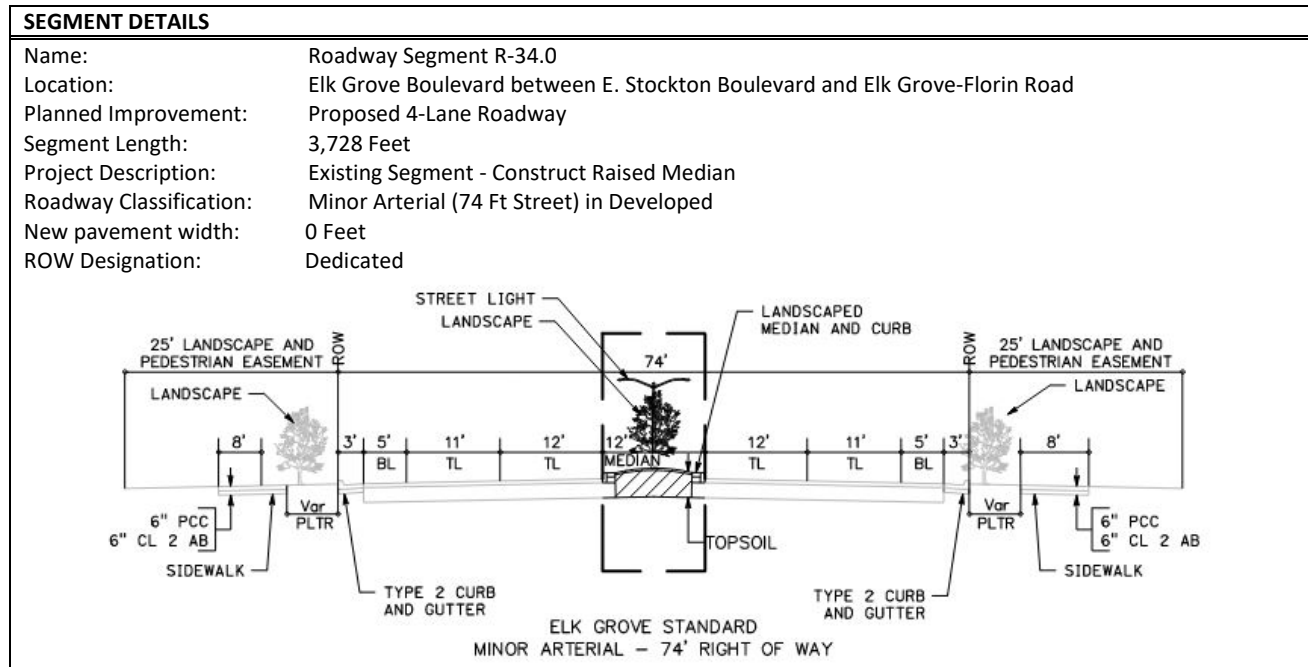
<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$8,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$8,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$12,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$12,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$21,300.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,770	\$83,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$83,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	7,456	\$126,752.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$126,752.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-34.0
Location:	Elk Grove Boulevard between E. Stockton Boulevard and Elk Grove-Florin Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,728 Feet
Project Description:	Existing Segment - Construct Raised Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	17	\$170,000.00
4.5	LANDSCAPING	SF	\$10.00	29,824	\$298,240.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$468,240.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$67,810.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$67,810.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$745,902.00
			CONTINGENCY: 20%	→	\$149,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$895,102.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$134,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$89,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$223,900.00</b>

**TOTAL PROJECT COST \*: \$1,119,010.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-34.0
Location:	Elk Grove Boulevard between E. Stockton Boulevard and Elk Grove-Florin Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,728 Feet
Project Description:	Existing Segment - Construct Raised Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$18,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$18,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$26,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$26,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$44,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-35.0
Location:	Elk Grove Boulevard between Bradshaw Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	1,911 Feet
Project Description:	Existing Segment – Reconstruct with shoulders, TWLTL, and bike lane per section and realign for new Grant Line Intersection. The cost for roadside ditches are included in Item 1 Earthwork.
Roadway Classification:	Collector (48 Ft Street) in Greenfield
New pavement width:	18 Feet
ROW Designation:	Acquisition

RURAL ROAD IMPROVEMENT STANDARD

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,260	\$97,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$97,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	400	\$36,000.00
3.2	AGGREGATE BASE	CY	\$60.00	760	\$45,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$81,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-35.0
Location:	Elk Grove Boulevard between Bradshaw Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	1,911 Feet
Project Description:	Existing Segment – Reconstruct with shoulders, TWLTL, and bike lane per section and realign for new Grant Line Intersection. The cost for roadside ditches are included in Item 1 Earthwork.
Roadway Classification:	Collector (48 Ft Street) in Greenfield
New pavement width:	18 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$30,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$20,940.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$20,940.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$230,340.00
			CONTINGENCY: 20%	→	\$46,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$276,440.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$41,500.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$27,700.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$69,200.00</b>

**TOTAL PROJECT COST \*:**      **\$345,640.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-35.0
Location:	Elk Grove Boulevard between Bradshaw Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	1,911 Feet
Project Description:	Existing Segment – Reconstruct with shoulders, TWLTL, and bike lane per section and realign for new Grant Line Intersection. The cost for roadside ditches are included in Item 1 Earthwork.
Roadway Classification:	Collector (48 Ft Street) in Greenfield
New pavement width:	18 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

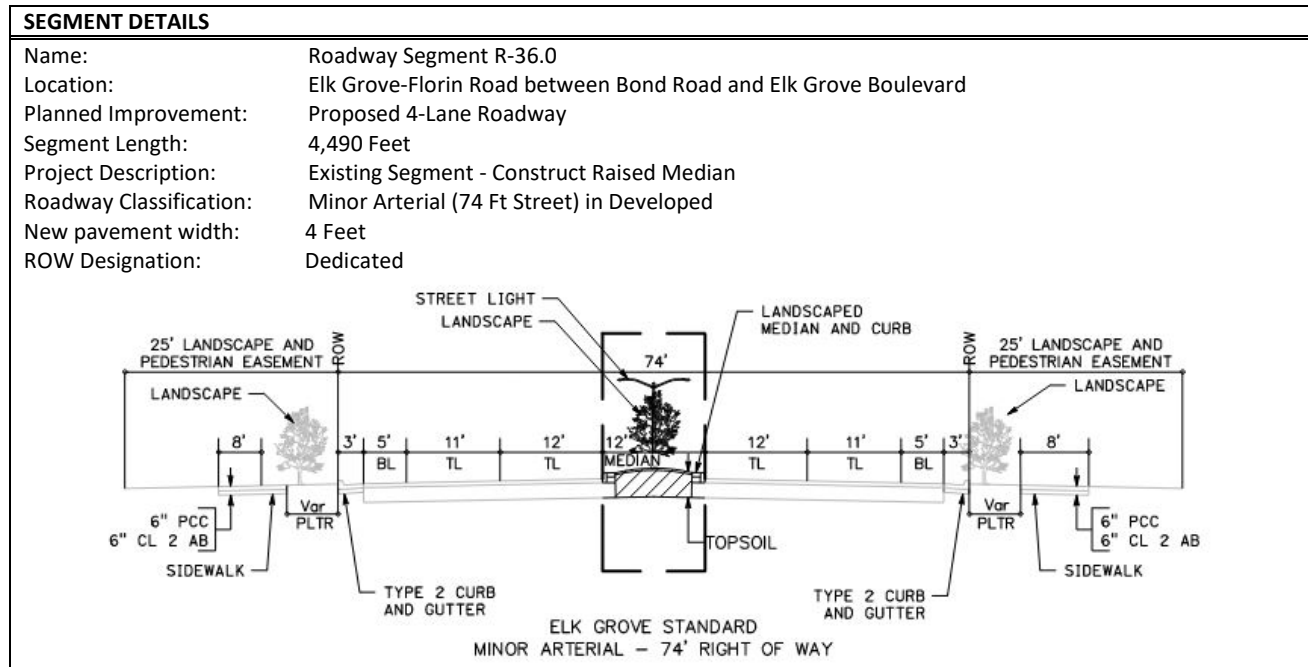
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	16,205	\$36,462.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,911	\$76,440.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$11,291.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$124,193.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$5,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$5,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$8,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$8,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$138,093.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,800	\$144,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$144,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	8,980	\$152,660.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$152,660.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-36.0
Location:	Elk Grove-Florin Road between Bond Road and Elk Grove Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,490 Feet
Project Description:	Existing Segment - Construct Raised Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	4 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	4,490	\$251,440.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	35,920	\$359,200.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$610,640.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$90,730.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$90,730.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$998,030.00
			CONTINGENCY: 20%	→	\$199,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,197,730.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$179,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$119,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$299,500.00</b>

**TOTAL PROJECT COST \*:** \$1,497,230.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-36.0
Location:	Elk Grove-Florin Road between Bond Road and Elk Grove Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,490 Feet
Project Description:	Existing Segment - Construct Raised Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	4 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$24,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$24,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$36,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$36,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$60,000.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-37.0
Location:	Grant Line Road between SR 99 NB ON RAMP and UPRR
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	400 Feet
Project Description:	Existing Segment - Construct median, resurface limits, and restripe for 8 lanes. Overall length does not include existing Grant Line Grade Separation Project. Future plans to widen the structure to 8 lanes are not included.
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	300	\$9,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$9,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	520	\$46,800.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	800	\$13,600.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$60,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-37.0
Location:	Grant Line Road between SR 99 NB ON RAMP and UPRR
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	400 Feet
Project Description:	Existing Segment - Construct median, resurface limits, and restripe for 8 lanes. Overall length does not include existing Grant Line Grade Separation Project. Future plans to widen the structure to 8 lanes are not included.
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	3,200	\$32,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$302,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$41,940.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$41,940.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$413,340.00
			CONTINGENCY: 20%	→	\$82,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$496,040.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$74,500.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$49,700.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$124,200.00</b>

**TOTAL PROJECT COST \*:**      **\$620,240.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-37.0
Location:	Grant Line Road between SR 99 NB ON RAMP and UPRR
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	400 Feet
Project Description:	Existing Segment - Construct median, resurface limits, and restripe for 8 lanes. Overall length does not include existing Grant Line Grade Separation Project. Future plans to widen the structure to 8 lanes are not included.
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$10,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$10,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$14,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$14,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$24,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-38.1
Location:	Grant Line Road between UPRR and Waterman Road (Phase 1)
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment - Complete WB frontage improvement (Phase 1 of 8-Lane Project). Relocate existing overhead lines. Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Acquisition

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	850	\$25,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$25,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	436	\$43,600.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$43,600.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	90	\$5,400.00
3.3	SIDEWALK	SF	\$12.00	3,488	\$41,856.00
3.4	CURB & GUTTER	LF	\$45.00	436	\$19,620.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$66,876.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-38.1
Location:	Grant Line Road between UPRR and Waterman Road (Phase 1)
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment - Complete WB frontage improvement (Phase 1 of 8-Lane Project). Relocate existing overhead lines. Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	436	\$24,416.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	12,208	\$122,080.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$146,496.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$28,248.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$28,248.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$310,720.00
			CONTINGENCY: 20%	→	\$62,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$372,920.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$56,000.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$37,300.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$93,300.00</b>

**TOTAL PROJECT COST \*:** \$466,220.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-38.1
Location:	Grant Line Road between UPRR and Waterman Road (Phase 1)
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment - Complete WB frontage improvement (Phase 1 of 8-Lane Project). Relocate existing overhead lines. Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	27,685	\$256,087.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	436	\$52,320.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$30,841.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$339,248.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$37,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$37,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$11,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$11,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$387,748.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-38.2
Location:	Grant Line Road between UPRR and Waterman Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment – Construct Inside Lanes and Median. Widen Roadway from 4 to 6 Lanes (Phase 2 of 8-Lane Project). Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	23 Feet
ROW Designation:	Acquired (in prior phase)

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,240	\$37,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$37,200.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	710	\$63,900.00
3.2	AGGREGATE BASE	CY	\$60.00	720	\$43,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	872	\$14,824.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$121,924.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-38.2
Location:	Grant Line Road between UPRR and Waterman Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment – Construct Inside Lanes and Median. Widen Roadway from 4 to 6 Lanes (Phase 2 of 8-Lane Project). Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	23 Feet
ROW Designation:	Acquired (in prior phase)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	3,488	\$34,880.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$54,880.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$21,401.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$21,401.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$235,405.00
			CONTINGENCY: 20%	→	\$47,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$282,505.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$42,400.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$28,300.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$70,700.00</b>

**TOTAL PROJECT COST \*:**      **\$353,210.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-38.2
Location:	Grant Line Road between UPRR and Waterman Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment – Construct Inside Lanes and Median. Widen Roadway from 4 to 6 Lanes (Phase 2 of 8-Lane Project). Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	23 Feet
ROW Designation:	Acquired (in prior phase)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$5,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$5,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$8,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$8,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$14,200.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-38.3
Location:	Grant Line Road between UPRR and Waterman Road (Phase 3)
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment – Construct Outside Lanes. Widen Roadway from 6 to 8 Lanes (Phase 3 of 8-Lane Project). Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	28 Feet
ROW Designation:	Acquired (in prior phase)

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,120	\$33,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$33,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	520	\$46,800.00
3.2	AGGREGATE BASE	CY	\$60.00	870	\$52,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$99,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-38.3
Location:	Grant Line Road between UPRR and Waterman Road (Phase 3)
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment – Construct Outside Lanes. Widen Roadway from 6 to 8 Lanes (Phase 3 of 8-Lane Project). Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	28 Feet
ROW Designation:	Acquired (in prior phase)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$13,260.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$13,260.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$145,860.00
			CONTINGENCY: 20%	→	\$29,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$175,060.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$26,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$17,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$43,900.00</b>

**TOTAL PROJECT COST \*:**      **\$218,960.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-38.3
Location:	Grant Line Road between UPRR and Waterman Road (Phase 3)
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	436 Feet
Project Description:	Existing Segment – Construct Outside Lanes. Widen Roadway from 6 to 8 Lanes (Phase 3 of 8-Lane Project). Length does not include existing Grant Line Grade Separation Project (See G-5.0 for widening of existing grade separation)
Roadway Classification:	Major Arterial (118 Ft Street) in Developed
New pavement width:	28 Feet
ROW Designation:	Acquired (in prior phase)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

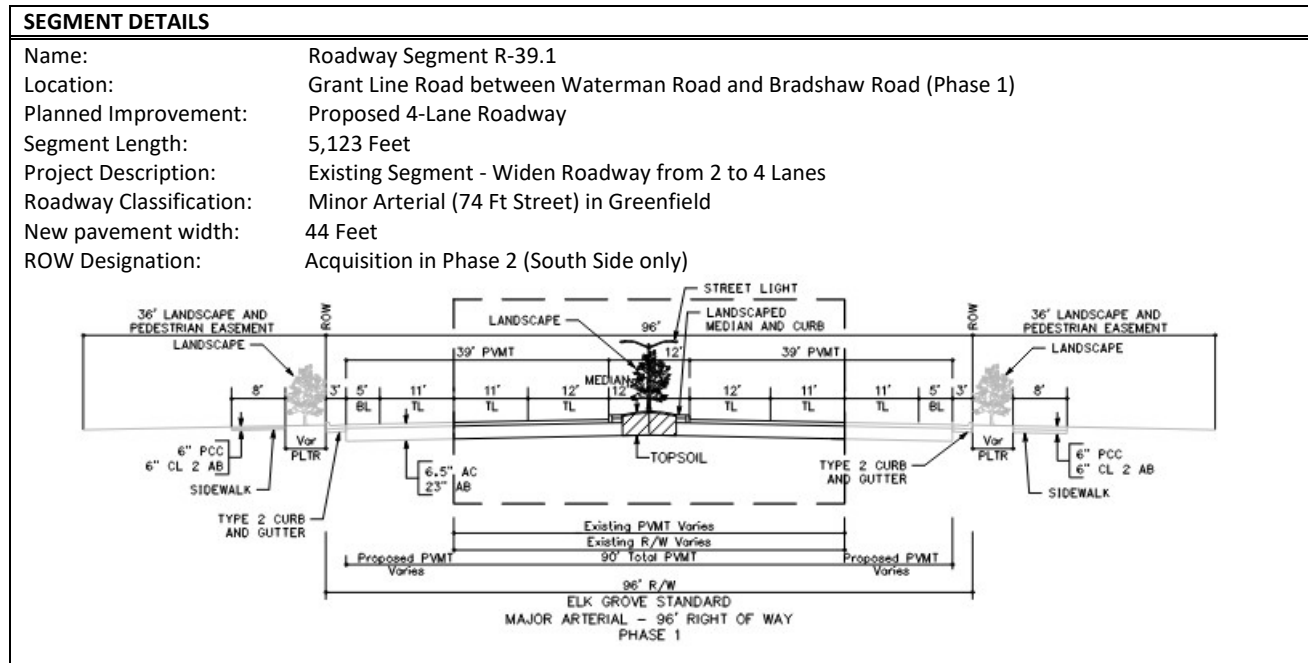
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$3,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$3,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$5,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$5,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):      \$8,900.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	22,240	\$667,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$667,200.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	5,123	\$512,300.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$512,300.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	9,600	\$864,000.00
3.2	AGGREGATE BASE	CY	\$60.00	14,620	\$877,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	10,246	\$174,182.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,915,382.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-39.1
Location:	Grant Line Road between Waterman Road and Bradshaw Road (Phase 1)
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	5,123 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	44 Feet
ROW Designation:	Acquisition in Phase 2 (South Side only)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	5,123	\$286,888.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	24	\$240,000.00
4.5	LANDSCAPING	SF	\$10.00	40,984	\$409,840.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$936,728.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$403,161.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$403,161.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$4,434,771.00
			CONTINGENCY: 20%	→	\$887,000.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$5,321,771.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$798,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$532,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,330,500.00</b>

**TOTAL PROJECT COST \*:** \$6,652,280.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-39.1
Location:	Grant Line Road between Waterman Road and Bradshaw Road (Phase 1)
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	5,123 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	44 Feet
ROW Designation:	Acquisition in Phase 2 (South Side only)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25		\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$532,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$532,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$159,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$159,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$691,900.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-39.2
Location:	Grant Line Road between Waterman Road and Bradshaw Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	5,123 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition (South Side only)

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	30,010	\$900,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$900,300.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	8,740	\$786,600.00
3.2	AGGREGATE BASE	CY	\$60.00	9,780	\$586,800.00
3.3	SIDEWALK	SF	\$12.00	40,984	\$491,808.00
3.4	CURB & GUTTER	LF	\$45.00	5,123	\$230,535.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,095,743.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-39.2
Location:	Grant Line Road between Waterman Road and Bradshaw Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	5,123 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition (South Side only)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	286,888	\$2,868,880.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$2,868,880.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$586,493.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$586,493.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$6,451,416.00
			CONTINGENCY: 20%	→	\$1,290,300.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$7,741,716.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$1,161,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$774,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,935,500.00</b>

**TOTAL PROJECT COST \*:** \$9,677,220.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-39.2
Location:	Grant Line Road between Waterman Road and Bradshaw Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	5,123 Feet
Project Description:	Existing Segment - Widen Roadway from 4 to 6 Lanes
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition (South Side only)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	124,745	\$280,677.00
9.2	EASEMENT	SF	\$2.25	244,409	\$549,921.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	5,123	\$204,920.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$103,552.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$1,139,070.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$154,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$154,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$232,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$232,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$1,526,270.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-40.0
Location:	Grant Line Road between Bradshaw Road and Elk Grove Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,542 Feet
Project Description:	Existing Segment - Construct 4-Lane Roadway
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Dedicated and Acquired (South Side)

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	27,570	\$827,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$827,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	3,542	\$354,200.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$354,200.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	7,050	\$634,500.00
3.2	AGGREGATE BASE	CY	\$60.00	14,110	\$846,600.00
3.3	SIDEWALK	SF	\$12.00	56,672	\$680,064.00
3.4	CURB & GUTTER	LF	\$45.00	3,542	\$159,390.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	7,084	\$120,428.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,440,982.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-40.0
Location:	Grant Line Road between Bradshaw Road and Elk Grove Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,542 Feet
Project Description:	Existing Segment - Construct 4-Lane Roadway
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Dedicated and Acquired (South Side)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	3,542	\$198,352.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	17	\$170,000.00
4.5	LANDSCAPING	SF	\$10.00	148,764	\$1,487,640.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,855,992.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$540,328.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$540,328.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$5,943,602.00
			CONTINGENCY: 20%	→	\$1,188,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$7,132,402.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$1,069,900.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$713,300.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,783,200.00</b>

**TOTAL PROJECT COST \*:** \$8,915,610.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-40.0
Location:	Grant Line Road between Bradshaw Road and Elk Grove Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,542 Feet
Project Description:	Existing Segment - Construct 4-Lane Roadway
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Dedicated and Acquired (South Side)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	62,579	\$140,803.00
9.2	EASEMENT	SF	\$2.25	100,639	\$226,438.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	3,542	\$141,680.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$50,893.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$559,814.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$713,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$713,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$214,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$214,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$1,487,114.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-41.1
Location:	Kammerer Road between I-5 (Phase 1) and Franklin Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,460 Feet
Project Description:	New Segment - Construct 4-Lane Roadway (Phase 1: EB Lanes and Ditch). Includes West End Structure and Hood Franklin Road. Increased Environmental Mitigation (Item 11.1) due to vernal pool complexes and other impacts. Roadway raised 7ft from existing grade
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquisition

JPA STANDARD  
SOUTHEAST CONNECTOR – 168' RIGHT OF WAY  
PHASE 1

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	21,920	\$657,600.00
1.2	IMPORT BORROW	CY	\$15.00	182,400	\$2,736,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$3,393,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	9,270	\$834,300.00
3.2	AGGREGATE BASE	CY	\$60.00	15,580	\$934,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,769,100.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-41.1
Location:	Kammerer Road between I-5 (Phase 1) and Franklin Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,460 Feet
Project Description:	New Segment - Construct 4-Lane Roadway (Phase 1: EB Lanes and Ditch). Includes West End Structure and Hood Franklin Road. Increased Environmental Mitigation (Item 11.1) due to vernal pool complexes and other impacts. Roadway raised 7ft from existing grade
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	4,460	\$249,760.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	11	\$110,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$359,760.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$552,246.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$552,246.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$275.00	49,750	\$13,681,250.00
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$13,681,250.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$19,755,956.00
			CONTINGENCY: 20%	→	\$3,951,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$23,707,156.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$3,556,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$2,370,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$5,926,900.00</b>

**TOTAL PROJECT COST \* : \$29,634,060.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-41.1
Location:	Kammerer Road between I-5 (Phase 1) and Franklin Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,460 Feet
Project Description:	New Segment - Construct 4-Lane Roadway (Phase 1: EB Lanes and Ditch). Includes West End Structure and Hood Franklin Road. Increased Environmental Mitigation (Item 11.1) due to vernal pool complexes and other impacts. Roadway raised 7ft from existing grade
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	961,470	\$2,163,308.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	4,460	\$178,400.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$234,171.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$2,575,879.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	1%	CON. COST	\$237,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$237,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$1,185,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$1,185,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$3,998,379.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-41.2
Location:	Kammerer Road between I-5 (Phase 2) and Franklin Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,460 Feet
Project Description:	New Segment - Construct 4-Lane Roadway (Phase 2: WB Lanes, Ditch, and Class I Path)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquired (in prior phase)

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	29,220	\$876,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$876,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	9,840	\$885,600.00
3.2	AGGREGATE BASE	CY	\$60.00	14,770	\$886,200.00
3.3	SIDEWALK	SF	\$12.00	10,695	\$128,340.00
3.4	CURB & GUTTER	LF	\$45.00	2,740	\$123,300.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,023,440.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-41.2
Location:	Kammerer Road between I-5 (Phase 2) and Franklin Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,460 Feet
Project Description:	New Segment - Construct 4-Lane Roadway (Phase 2: WB Lanes, Ditch, and Class I Path)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquired (in prior phase)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	11	\$110,000.00
4.5	LANDSCAPING	SF	\$10.00	44,600	\$446,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$556,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$343,504.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$343,504.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$3,778,544.00
			CONTINGENCY: 20%	→	\$755,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$4,534,344.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$680,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$453,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,133,700.00</b>

**TOTAL PROJECT COST \*:** \$5,668,050.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-41.2
Location:	Kammerer Road between I-5 (Phase 2) and Franklin Boulevard
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,460 Feet
Project Description:	New Segment - Construct 4-Lane Roadway (Phase 2: WB Lanes, Ditch, and Class I Path)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquired (in prior phase)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	1%	CON. COST	\$45,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$45,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$136,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$136,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$181,500.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-42.1
Location:	Kammerer Road between Willard Parkway (Phase 1) and Bruceville Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	7,104 Feet
Project Description:	New Segment - Construct 6-Lane Roadway (6-lane Right-Of-Way, Phase 1: Two EB Lanes and Ditch). Proposed culverts are 31', 47' and 84' in width and 162' in length (per Dewberry GAD). Roadway raised 7ft from existing grade.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquisition

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	27,100	\$813,000.00
1.2	IMPORT BORROW	CY	\$15.00	288,300	\$4,324,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$5,137,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	11,690	\$1,052,100.00
3.2	AGGREGATE BASE	CY	\$60.00	19,860	\$1,191,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,243,700.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-42.1
Location:	Kammerer Road between Willard Parkway (Phase 1) and Bruceville Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	7,104 Feet
Project Description:	New Segment - Construct 6-Lane Roadway (6-lane Right-Of-Way, Phase 1: Two EB Lanes and Ditch). Proposed culverts are 31', 47' and 84' in width and 162' in length (per Dewberry GAD). Roadway raised 7ft from existing grade.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	7,154	\$400,624.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	17	\$170,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$570,624.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$795,183.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$795,183.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$200.00	20,412	\$4,082,400.00
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$4,082,400.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$12,829,407.00
			CONTINGENCY: 20%	→	\$2,565,900.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$15,395,307.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$2,309,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$1,539,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$3,848,900.00</b>

**TOTAL PROJECT COST \* : \$19,244,210.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-42.1
Location:	Kammerer Road between Willard Parkway (Phase 1) and Bruceville Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	7,104 Feet
Project Description:	New Segment - Construct 6-Lane Roadway (6-lane Right-Of-Way, Phase 1: Two EB Lanes and Ditch). Proposed culverts are 31', 47' and 84' in width and 162' in length (per Dewberry GAD). Roadway raised 7ft from existing grade.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	39 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	1,430,848	\$3,219,408.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	7,104	\$284,160.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$350,357.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$3,853,925.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	1%	CON. COST	\$154,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$154,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$461,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$461,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$4,469,825.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-42.2
Location:	Kammerer Road between Willard Parkway (Phase 2) and Bruceville Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	7,104 Feet
Project Description:	New Segment - Construct 6-Lane Roadway (Phase 2: One EB Lane, WB Lanes, Ditch, and Class I Path)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	62 Feet
ROW Designation:	Acquired (in prior phase)

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	54,460	\$1,633,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$1,633,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	21,680	\$1,951,200.00
3.2	AGGREGATE BASE	CY	\$60.00	32,780	\$1,966,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	14,208	\$241,536.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$4,159,536.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-42.2
Location:	Kammerer Road between Willard Parkway (Phase 2) and Bruceville Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	7,104 Feet
Project Description:	New Segment - Construct 6-Lane Roadway (Phase 2: One EB Lane, WB Lanes, Ditch, and Class I Path)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	62 Feet
ROW Designation:	Acquired (in prior phase)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	17	\$170,000.00
4.5	LANDSCAPING	SF	\$10.00	142,080	\$1,420,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,590,800.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$738,414.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$738,414.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$8,122,550.00
			CONTINGENCY: 20%	→	\$1,624,600.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$9,747,150.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$1,462,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$974,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$2,436,900.00</b>

**TOTAL PROJECT COST \*:** \$12,184,050.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-42.2
Location:	Kammerer Road between Willard Parkway (Phase 2) and Bruceville Road
Planned Improvement:	Proposed 6-Lane Roadway
Segment Length:	7,104 Feet
Project Description:	New Segment - Construct 6-Lane Roadway (Phase 2: One EB Lane, WB Lanes, Ditch, and Class I Path)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	62 Feet
ROW Designation:	Acquired (in prior phase)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	1%	CON. COST	\$97,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$97,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$292,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$292,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$390,000.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-43.1
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes and Median. Widen Roadway from 2 to 6 Lanes (Phase 1 of 6-Lane Project). Roadway raised 7ft from existing grade.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Acquisition

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,330	\$189,900.00
1.2	IMPORT BORROW	CY	\$15.00	101,600	\$1,524,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$1,713,900.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	2,880	\$288,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$288,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,240	\$201,600.00
3.2	AGGREGATE BASE	CY	\$60.00	3,280	\$196,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	5,760	\$97,920.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$496,320.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-43.1
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes and Median. Widen Roadway from 2 to 6 Lanes (Phase 1 of 6-Lane Project). Roadway raised 7ft from existing grade.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,880	\$161,280.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	23,040	\$230,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$391,680.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$288,990.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$288,990.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$3,178,890.00
			CONTINGENCY: 20%	→	\$635,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$3,814,690.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$572,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$381,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$953,800.00</b>

**TOTAL PROJECT COST \*:** \$4,768,490.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-43.1
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes and Median. Widen Roadway from 2 to 6 Lanes (Phase 1 of 6-Lane Project). Roadway raised 7ft from existing grade.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	233,773	\$525,990.00
9.2	EASEMENT	SF	\$2.25	366,698	\$825,071.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	2,880	\$115,200.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$146,627.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$1,612,888.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$381,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$381,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$114,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$114,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$2,108,888.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-43.2
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 4 Lanes (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquired (in prior phase)

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,300	\$189,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$189,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,910	\$261,900.00
3.2	AGGREGATE BASE	CY	\$60.00	4,910	\$294,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$556,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-43.2
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 4 Lanes (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquired (in prior phase)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	14	\$140,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$140,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$88,550.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$88,550.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$974,050.00
			CONTINGENCY: 20%	→	\$194,900.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,168,950.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$175,400.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$116,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$292,300.00</b>

**TOTAL PROJECT COST \*: \$1,461,250.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-43.2
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 4 Lanes (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquired (in prior phase)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$23,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$23,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$35,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$35,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$58,500.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-43.3
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 3)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquired (in prior phase)

SEPA STANDARD  
MAJOR ARTERIAL – 96' RIGHT OF WAY  
PHASE 3

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	19,420	\$582,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$582,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	4,120	\$370,800.00
3.2	AGGREGATE BASE	CY	\$60.00	8,340	\$500,400.00
3.3	SIDEWALK	SF	\$12.00	57,600	\$691,200.00
3.4	CURB & GUTTER	LF	\$45.00	5,760	\$259,200.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,821,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-43.3
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 3)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquired (in prior phase)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	14	\$140,000.00
4.5	LANDSCAPING	SF	\$10.00	149,760	\$1,497,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,637,600.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$404,180.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$404,180.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$4,445,980.00
			CONTINGENCY: 20%	→	\$889,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$5,335,180.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$800,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$533,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,333,900.00</b>

**TOTAL PROJECT COST \*:** \$6,669,080.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-43.3
Location:	Kammerer Road between Bruceville Road and Big Horn Boulevard (Phase 3)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	2,880 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquired (in prior phase)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$106,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$106,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$160,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$160,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$266,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-44.1
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2 Lanes and Median. Widen Roadway from 2 to 6 Lanes. Length does not include Collector 1 or Lotz Pkwy. (Phase 1 of 6/8-Lane Project). Roadway raised 7ft from existing grade. ROW assumed to be previously acquired.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Previously Acquired

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,960	\$208,800.00
1.2	IMPORT BORROW	CY	\$15.00	124,000	\$1,860,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$2,068,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	3,163	\$316,300.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$316,300.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,460	\$221,400.00
3.2	AGGREGATE BASE	CY	\$60.00	3,600	\$216,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	6,326	\$107,542.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$544,942.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-44.1
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2 Lanes and Median. Widen Roadway from 2 to 6 Lanes. Length does not include Collector 1 or Lotz Pkwy. (Phase 1 of 6/8-Lane Project). Roadway raised 7ft from existing grade. ROW assumed to be previously acquired.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Previously Acquired

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	3,163	\$177,128.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	25,304	\$253,040.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$430,168.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$336,021.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$336,021.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$3,696,231.00
			CONTINGENCY: 20%	→	\$739,300.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$4,435,531.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$665,400.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$443,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,109,000.00</b>

**TOTAL PROJECT COST \*:** \$5,544,540.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-44.1
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2 Lanes and Median. Widen Roadway from 2 to 6 Lanes. Length does not include Collector 1 or Lotz Pkwy. (Phase 1 of 6/8-Lane Project). Roadway raised 7ft from existing grade. ROW assumed to be previously acquired.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Previously Acquired

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	5%	CON. COST	\$221,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$221,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$133,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$133,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$354,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-44.2
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 4 Lanes. Length does not include Collector 1 or Lotz Pkwy. (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Previously Acquired

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,920	\$207,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$207,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,190	\$287,100.00
3.2	AGGREGATE BASE	CY	\$60.00	5,390	\$323,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$610,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-44.2
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 4 Lanes. Length does not include Collector 1 or Lotz Pkwy. (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Previously Acquired

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	15	\$150,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$150,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$96,810.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$96,810.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,064,910.00
			CONTINGENCY: 20%	→	\$213,000.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,277,910.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$191,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$127,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$319,500.00</b>

**TOTAL PROJECT COST \*:** \$1,597,410.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-44.2
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2 Lanes for a total of 4 Lanes. Length does not include Collector 1 or Lotz Pkwy. (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Previously Acquired

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$25,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$25,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$38,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$38,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$64,000.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-44.3
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 3)
Planned Improvement:	Proposed 8-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2/4 Lanes for a total of 6/8 Lanes. (Phase 3 of 6/8-Lane Project). Transitions from 6 lanes to 8 lanes approximately 350' west of Collector 1, EB frontage between Lent Ranch and 800' west (See Dokken GAD)
Roadway Classification:	Major Arterial (118 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Previously Acquired

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	26,460	\$793,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$793,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	6,520	\$586,800.00
3.2	AGGREGATE BASE	CY	\$60.00	12,650	\$759,000.00
3.3	SIDEWALK	SF	\$12.00	67,420	\$809,040.00
3.4	CURB & GUTTER	LF	\$45.00	6,742	\$303,390.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,458,230.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-44.3
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 3)
Planned Improvement:	Proposed 8-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2/4 Lanes for a total of 6/8 Lanes. (Phase 3 of 6/8-Lane Project). Transitions from 6 lanes to 8 lanes approximately 350' west of Collector 1, EB frontage between Lent Ranch and 800' west (See Dokken GAD)
Roadway Classification:	Major Arterial (118 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Previously Acquired

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	15	\$150,000.00
4.5	LANDSCAPING	SF	\$10.00	175,292	\$1,752,920.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,902,920.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$515,495.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$515,495.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$5,670,445.00
			CONTINGENCY: 20%	→	\$1,134,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$6,804,545.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$1,020,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$680,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,701,200.00</b>

**TOTAL PROJECT COST \* : \$8,505,750.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-44.3
Location:	Kammerer Road between Big Horn Boulevard and Lent Ranch Parkway (Phase 3)
Planned Improvement:	Proposed 8-Lane Roadway (SEPA)
Segment Length:	3,163 Feet
Project Description:	Existing Segment – Construct 2/4 Lanes for a total of 6/8 Lanes. (Phase 3 of 6/8-Lane Project). Transitions from 6 lanes to 8 lanes approximately 350' west of Collector 1, EB frontage between Lent Ranch and 800' west (See Dokken GAD)
Roadway Classification:	Major Arterial (118 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Previously Acquired

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$136,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$136,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$204,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$204,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$340,300.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-45.0
Location:	Kammerer Road between Promenade Parkway and SR 99 SB Ramps
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	800 Feet
Project Description:	Existing Segment - Widen from 6 to 8 Lanes. Import borrow to account for slope widening. Increased minor items for relocation of overhead sign.
Roadway Classification:	Major Arterial (118 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,540	\$166,200.00
1.2	IMPORT BORROW	CY	\$15.00	3,400	\$51,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$217,200.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	800	\$80,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$80,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,830	\$164,700.00
3.2	AGGREGATE BASE	CY	\$60.00	2,260	\$135,600.00
3.3	SIDEWALK	SF	\$12.00	12,800	\$153,600.00
3.4	CURB & GUTTER	LF	\$45.00	1,600	\$72,000.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$525,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-45.0
Location:	Kammerer Road between Promenade Parkway and SR 99 SB Ramps
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	800 Feet
Project Description:	Existing Segment - Widen from 6 to 8 Lanes. Import borrow to account for slope widening. Increased minor items for relocation of overhead sign.
Roadway Classification:	Major Arterial (118 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	2	\$500,000.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	44,800	\$448,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$948,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	20%	Sections 1-4	\$354,220.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$354,220.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,125,320.00
			CONTINGENCY: 20%	→	\$425,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,550,420.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$382,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$255,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$637,700.00</b>

**TOTAL PROJECT COST \*:** \$3,188,120.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-45.0
Location:	Kammerer Road between Promenade Parkway and SR 99 SB Ramps
Planned Improvement:	Proposed 8-Lane Roadway
Segment Length:	800 Feet
Project Description:	Existing Segment - Widen from 6 to 8 Lanes. Import borrow to account for slope widening. Increased minor items for relocation of overhead sign.
Roadway Classification:	Major Arterial (118 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	3,857	\$8,679.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	800	\$32,000.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$4,068.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$44,747.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$51,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$51,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$76,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$76,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$172,447.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-46.0
Location:	Laguna Grove between Existing Terminus and Laguna Springs
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	370 Feet
Project Description:	New Segment - Construct from Back of Walk to Back of Walk
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	44 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
RESIDENTIAL – 50' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,380	\$41,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$41,400.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	370	\$37,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$37,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	430	\$38,700.00
3.2	AGGREGATE BASE	CY	\$60.00	920	\$55,200.00
3.3	SIDEWALK	SF	\$12.00	3,700	\$44,400.00
3.4	CURB & GUTTER	LF	\$45.00	740	\$33,300.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$171,600.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-46.0
Location:	Laguna Grove between Existing Terminus and Laguna Springs
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	370 Feet
Project Description:	New Segment - Construct from Back of Walk to Back of Walk
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	44 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	4,440	\$44,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$314,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$56,440.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$56,440.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$620,840.00
			CONTINGENCY: 20%	→	\$124,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$745,040.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$111,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$74,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$186,400.00</b>

**TOTAL PROJECT COST \*:**      **\$931,440.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-46.0
Location:	Laguna Grove between Existing Terminus and Laguna Springs
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	370 Feet
Project Description:	New Segment - Construct from Back of Walk to Back of Walk
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	44 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	17,673	\$39,765.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	370	\$14,800.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$5,457.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$60,022.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$15,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$15,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$22,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$22,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$97,422.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-47.1
Location:	Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	1,000 Feet
Project Description:	New Segment - Construct 2 Lanes and Median (Phase 1 of 6-lane Project). Right of way costs from the City.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

SEPA STANDARD  
MAJOR ARTERIAL – 96' RIGHT OF WAY  
PHASE 1

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,930	\$87,900.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$87,900.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,000	\$100,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$100,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,010	\$90,900.00
3.2	AGGREGATE BASE	CY	\$60.00	1,710	\$102,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	2,000	\$34,000.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$227,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-47.1
Location:	Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	1,000 Feet
Project Description:	New Segment - Construct 2 Lanes and Median (Phase 1 of 6-lane Project). Right of way costs from the City.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	5	\$50,000.00
4.5	LANDSCAPING	SF	\$10.00	8,000	\$80,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$186,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$60,140.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$60,140.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$661,540.00
			CONTINGENCY: 20%	→	\$132,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$793,940.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$119,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$79,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$198,500.00</b>

**TOTAL PROJECT COST \*:**      **\$992,440.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-47.1
Location:	Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 1)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	1,000 Feet
Project Description:	New Segment - Construct 2 Lanes and Median (Phase 1 of 6-lane Project). Right of way costs from the City.
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	69,401	\$156,153.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,000	\$40,000.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$19,616.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$215,769.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$15,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$15,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$23,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$23,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$255,569.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-47.2
Location:	Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	1,000 Feet
Project Description:	New Segment – Construct 2 Lanes on the South side of the median for a total of 4 Lanes (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	23 Feet
ROW Designation:	Acquired (in prior phase)

SEPA STANDARD  
MAJOR ARTERIAL – 96' RIGHT OF WAY  
PHASE 2

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,100	\$63,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$63,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,270	\$114,300.00
3.2	AGGREGATE BASE	CY	\$60.00	1,640	\$98,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$212,700.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-47.2
Location:	Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	1,000 Feet
Project Description:	New Segment – Construct 2 Lanes on the South side of the median for a total of 4 Lanes (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	23 Feet
ROW Designation:	Acquired (in prior phase)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$27,570.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$27,570.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$303,270.00
			CONTINGENCY: 20%	→	\$60,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$363,970.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$54,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$36,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$91,000.00</b>

**TOTAL PROJECT COST \*:**      **\$454,970.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-47.2
Location:	Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 2)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	1,000 Feet
Project Description:	New Segment – Construct 2 Lanes on the South side of the median for a total of 4 Lanes (Phase 2 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	23 Feet
ROW Designation:	Acquired (in prior phase)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$7,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$7,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$11,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$11,000.00</b>

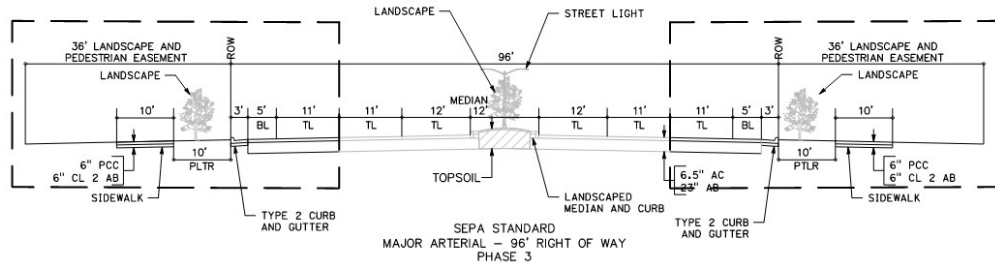
**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$18,300.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

Name: Roadway Segment R-47.3  
 Location: Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 3)  
 Planned Improvement: Proposed 6-Lane Roadway (SEPA)  
 Segment Length: 1,000 Feet  
 Project Description: New Segment – Construct Outside Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)  
 Roadway Classification: Major Arterial (96 Ft Street) in Greenfield  
 New pavement width: 32 Feet  
 ROW Designation: Acquired (in prior phase)



### 1 EARTHWORK

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,570	\$197,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$197,100.00</b>

### 2 DRAINAGE

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

### 3 PAVEMENT

	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,810	\$162,900.00
3.2	AGGREGATE BASE	CY	\$60.00	2,760	\$165,600.00
3.3	SIDEWALK	SF	\$12.00	20,000	\$240,000.00
3.4	CURB & GUTTER	LF	\$45.00	2,000	\$90,000.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$658,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-47.3
Location:	Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 3)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	1,000 Feet
Project Description:	New Segment – Construct Outside Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	32 Feet
ROW Designation:	Acquired (in prior phase)

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	5	\$50,000.00
4.5	LANDSCAPING	SF	\$10.00	52,000	\$520,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$570,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$142,560.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$142,560.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,568,160.00
			CONTINGENCY: 20%	→	\$313,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,881,860.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$282,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$188,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$470,500.00</b>

**TOTAL PROJECT COST \*:** \$2,352,360.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-47.3
Location:	Lotz Parkway between Whitelock Parkway and Promenade Parkway/Poppy Ridge Road (Phase 3)
Planned Improvement:	Proposed 6-Lane Roadway (SEPA)
Segment Length:	1,000 Feet
Project Description:	New Segment – Construct Outside Lanes for a total of 6 Lanes (Phase 3 of 6-Lane Project)
Roadway Classification:	Major Arterial (96 Ft Street) in Greenfield
New pavement width:	32 Feet
ROW Designation:	Acquired (in prior phase)

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$37,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$37,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$56,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$56,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$94,200.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-48.0
Location:	Lotz Parkway between Promenade Parkway and Road A/Kyler Road
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	1,556 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

SEPA STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,210	\$126,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$126,300.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,556	\$155,600.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$155,600.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,330	\$119,700.00
3.2	AGGREGATE BASE	CY	\$60.00	2,430	\$145,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	3,112	\$52,904.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$318,404.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-48.0
Location:	Lotz Parkway between Promenade Parkway and Road A/Kyler Road
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	1,556 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,556	\$87,136.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	8	\$80,000.00
4.5	LANDSCAPING	SF	\$10.00	12,448	\$124,480.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$291,616.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$89,192.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$89,192.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$981,112.00
			CONTINGENCY: 20%	→	\$196,300.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,177,412.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$176,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$117,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$294,500.00</b>

**TOTAL PROJECT COST \*: \$1,471,920.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-48.0
Location:	Lotz Parkway between Promenade Parkway and Road A/Kyler Road
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	1,556 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

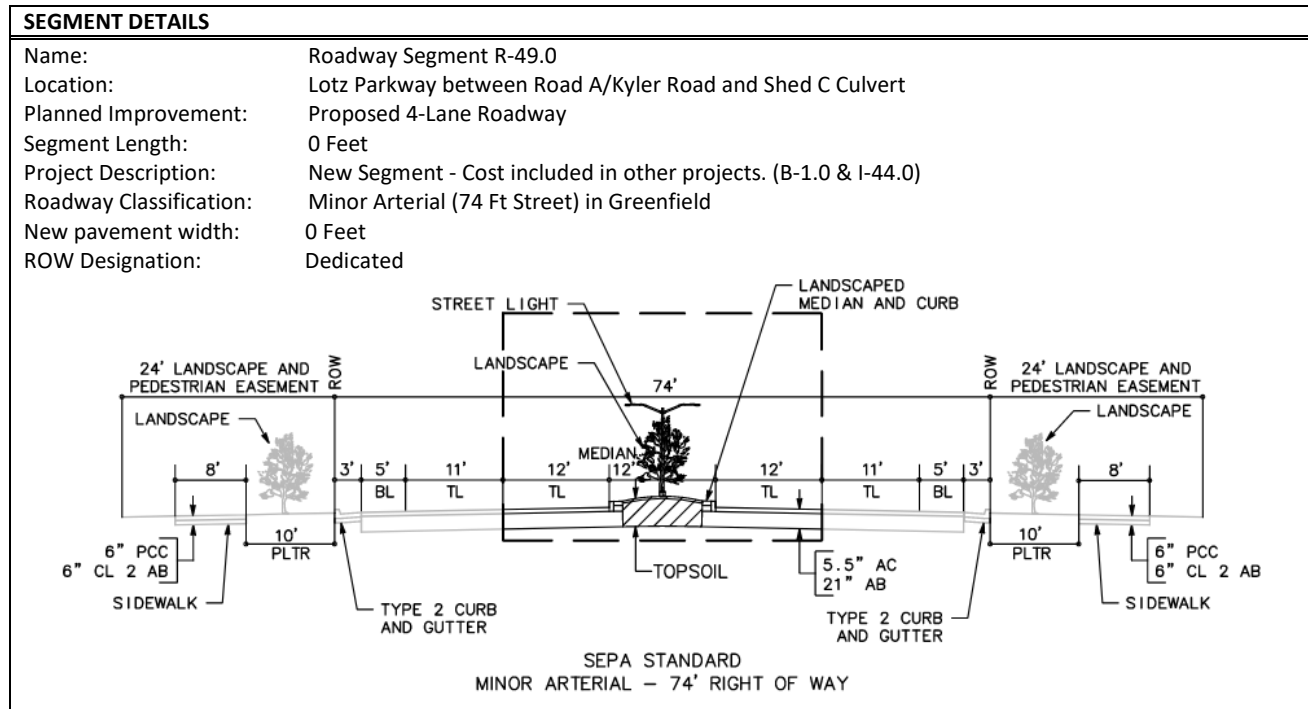
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$23,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$23,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$35,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$35,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$59,000.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-49.0
Location:	Lotz Parkway between Road A/Kyler Road and Shed C Culvert
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	New Segment - Cost included in other projects. (B-1.0 & I-44.0)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$0.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$0.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$0.00
			CONTINGENCY: 20%	→	\$0.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$0.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$0.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$0.00</b>

**TOTAL PROJECT COST \*:** **\$0.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-49.0
Location:	Lotz Parkway between Road A/Kyler Road and Shed C Culvert
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	New Segment - Cost included in other projects. (B-1.0 & I-44.0)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

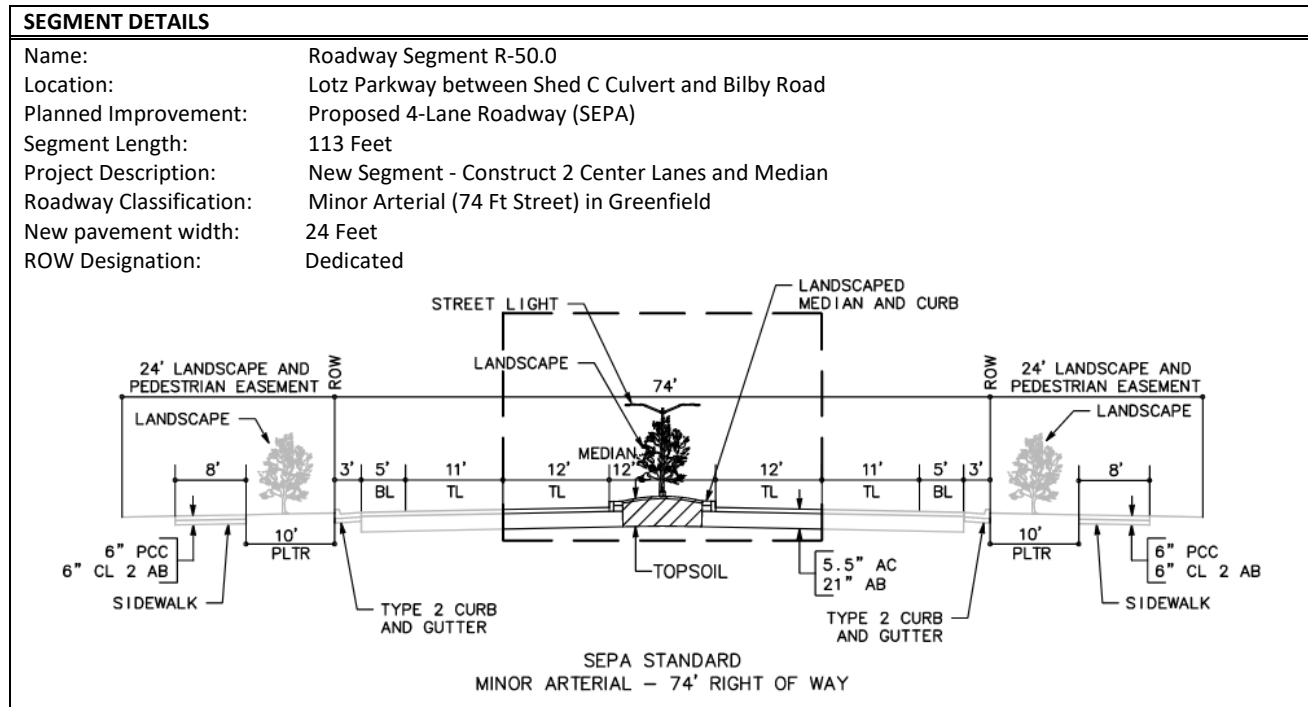
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$0.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$0.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$0.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	310	\$9,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$9,300.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	113	\$11,300.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$11,300.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	100	\$9,000.00
3.2	AGGREGATE BASE	CY	\$60.00	180	\$10,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	226	\$3,842.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$23,642.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-50.0
Location:	Lotz Parkway between Shed C Culvert and Bilby Road
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	113 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	113	\$6,328.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	1	\$10,000.00
4.5	LANDSCAPING	SF	\$10.00	904	\$9,040.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$25,368.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$6,961.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$6,961.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$76,571.00
			CONTINGENCY: 20%	→	\$15,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$91,971.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$13,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$9,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$23,000.00</b>

**TOTAL PROJECT COST \*:**      **\$114,980.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-50.0
Location:	Lotz Parkway between Shed C Culvert and Bilby Road
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	113 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$1,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$1,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$2,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$2,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):      \$4,700.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-51.0
Location:	Lotz Parkway between Bilby Road and Collector 3
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	677 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median. Cost includes new signal at Lotz Pkwy and Collector 3.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

SEPA STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,840	\$55,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$55,200.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	677	\$67,700.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$67,700.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	580	\$52,200.00
3.2	AGGREGATE BASE	CY	\$60.00	1,060	\$63,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,354	\$23,018.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$138,818.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-51.0
Location:	Lotz Parkway between Bilby Road and Collector 3
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	677 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median. Cost includes new signal at Lotz Pkwy and Collector 3.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	677	\$37,912.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	5,416	\$54,160.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$432,072.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$69,379.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$69,379.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$763,169.00
			CONTINGENCY: 20%	→	\$152,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$915,869.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$137,400.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$91,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$229,000.00</b>

**TOTAL PROJECT COST \*:** \$1,144,870.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-51.0
Location:	Lotz Parkway between Bilby Road and Collector 3
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	677 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median. Cost includes new signal at Lotz Pkwy and Collector 3.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

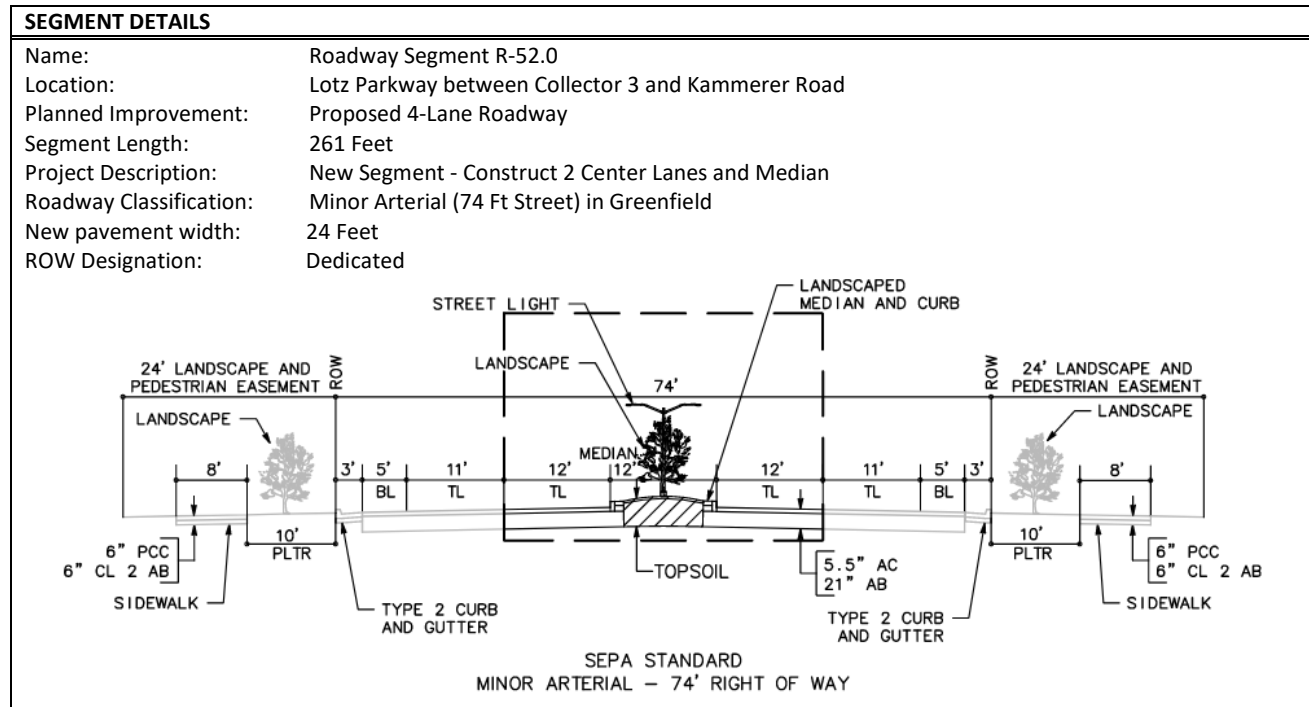
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$18,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$18,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$27,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$27,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$45,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	710	\$21,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$21,300.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	261	\$26,100.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$26,100.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	230	\$20,700.00
3.2	AGGREGATE BASE	CY	\$60.00	410	\$24,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	522	\$8,874.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$54,174.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-52.0
Location:	Lotz Parkway between Collector 3 and Kammerer Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	261 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	261	\$14,616.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	2,088	\$20,880.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$55,496.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$15,707.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$15,707.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$172,777.00
			CONTINGENCY: 20%	→	\$34,600.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$207,377.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$31,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$20,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$52,000.00</b>

**TOTAL PROJECT COST \*:** \$259,380.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-52.0
Location:	Lotz Parkway between Collector 3 and Kammerer Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	261 Feet
Project Description:	New Segment - Construct 2 Center Lanes and Median
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$4,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$4,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$6,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$6,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$10,500.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-53.0
Location:	Monetta Drive between Existing Terminus and Longleaf Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	932 Feet
Project Description:	New Segment - Extend Street (gap segment), construct from back of walk to back of walk.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated and Acquired

**ELK GROVE STANDARD  
COLLECTOR – 50' RIGHT OF WAY**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,770	\$83,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$83,100.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	932	\$93,200.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$93,200.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	820	\$73,800.00
3.2	AGGREGATE BASE	CY	\$60.00	1,850	\$111,000.00
3.3	SIDEWALK	SF	\$12.00	9,320	\$111,840.00
3.4	CURB & GUTTER	LF	\$45.00	1,864	\$83,880.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,864	\$31,688.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$412,208.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-53.0
Location:	Monetta Drive between Existing Terminus and Longleaf Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	932 Feet
Project Description:	New Segment - Extend Street (gap segment), construct from back of walk to back of walk.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated and Acquired

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	5	\$50,000.00
4.5	LANDSCAPING	SF	\$10.00	5,592	\$55,920.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$105,920.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$69,443.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$69,443.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$763,871.00
			CONTINGENCY: 20%	→	\$152,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$916,671.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$137,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$91,700.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$229,300.00</b>

**TOTAL PROJECT COST \*:** \$1,145,980.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-53.0
Location:	Monetta Drive between Existing Terminus and Longleaf Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	932 Feet
Project Description:	New Segment - Extend Street (gap segment), construct from back of walk to back of walk.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	34 Feet
ROW Designation:	Dedicated and Acquired

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	1,217	\$2,739.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	932	\$37,280.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$4,002.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$44,021.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$18,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$18,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$27,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$27,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$90,021.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-54.0
Location:	Parsons Landing between Two Harbors Drive and Apple Mill Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	213 Feet
Project Description:	New Segment - Extend Street (gap segment), construct from back of walk to back of walk.
Roadway Classification:	Primary Residential (40 Ft Street) in Greenfield
New pavement width:	42 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
RESIDENTIAL – 48' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	530	\$15,900.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$15,900.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	213	\$21,300.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$21,300.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	230	\$20,700.00
3.2	AGGREGATE BASE	CY	\$60.00	430	\$25,800.00
3.3	SIDEWALK	SF	\$12.00	2,130	\$25,560.00
3.4	CURB & GUTTER	LF	\$45.00	426	\$19,170.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$91,230.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-54.0
Location:	Parsons Landing between Two Harbors Drive and Apple Mill Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	213 Feet
Project Description:	New Segment - Extend Street (gap segment), construct from back of walk to back of walk.
Roadway Classification:	Primary Residential (40 Ft Street) in Greenfield
New pavement width:	42 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	1	\$10,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$10,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$13,783.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$13,783.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$151,613.00
			CONTINGENCY: 20%	→	\$30,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$182,013.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$27,400.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$18,300.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$45,700.00</b>

**TOTAL PROJECT COST \*:**     **\$227,720.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-54.0
Location:	Parsons Landing between Two Harbors Drive and Apple Mill Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	213 Feet
Project Description:	New Segment - Extend Street (gap segment), construct from back of walk to back of walk.
Roadway Classification:	Primary Residential (40 Ft Street) in Greenfield
New pavement width:	42 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	9,051	\$20,365.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	213	\$8,520.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$2,889.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$31,774.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$3,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$3,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$5,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$5,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$40,974.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-55.0
Location:	Promenade Parkway between Lotz Parkway / Poppy Ridge Road and SMUD Substation
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	2,200 Feet
Project Description:	New Segment - Construct 4 lanes with Median - Back of Curb to Back of Curb only, No sidewalk or outside landscaping
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Acquisition

SEPA STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	11,860	\$355,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$355,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	2,200	\$220,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$220,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	4,380	\$394,200.00
3.2	AGGREGATE BASE	CY	\$60.00	8,230	\$493,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	4,400	\$198,000.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	4,400	\$74,800.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,160,800.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-55.0
Location:	Promenade Parkway between Lotz Parkway / Poppy Ridge Road and SMUD Substation
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	2,200 Feet
Project Description:	New Segment - Construct 4 lanes with Median - Back of Curb to Back of Curb only, No sidewalk or outside landscaping
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,200	\$123,200.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	17,600	\$176,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$399,200.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$213,580.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$213,580.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,349,380.00
			CONTINGENCY: 20%	→	\$469,900.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,819,280.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$422,900.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$282,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$704,900.00</b>

**TOTAL PROJECT COST \*:** \$3,524,180.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-55.0
Location:	Promenade Parkway between Lotz Parkway / Poppy Ridge Road and SMUD Substation
Planned Improvement:	Proposed 4-Lane Roadway (SEPA)
Segment Length:	2,200 Feet
Project Description:	New Segment - Construct 4 lanes with Median - Back of Curb to Back of Curb only, No sidewalk or outside landscaping
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	141,193	\$317,685.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	2,200	\$88,000.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$40,569.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$446,254.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$56,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$56,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$84,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$84,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$587,254.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-56.0
Location:	Railroad Street between Existing Terminus and Dino Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	2,044 Feet
Project Description:	New Segment - Extend Street (gap segment) 2 lane commercial. Half of segment has 10' median and other half uses TWLTL. Increased Environmental Mitigation (Item 11.1) due to soil contamination in nearby creek.
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

**ELK GROVE STANDARD  
COLLECTOR – 50' RIGHT OF WAY**

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,290	\$128,700.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$128,700.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	2,044	\$204,400.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$204,400.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,540	\$138,600.00
3.2	AGGREGATE BASE	CY	\$60.00	2,930	\$175,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	2,044	\$34,748.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$349,148.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-56.0
Location:	Railroad Street between Existing Terminus and Dino Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	2,044 Feet
Project Description:	New Segment - Extend Street (gap segment) 2 lane commercial. Half of segment has 10' median and other half uses TWLTL. Increased Environmental Mitigation (Item 11.1) due to soil contamination in nearby creek.
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	6,132	\$61,320.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$161,320.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$84,357.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$84,357.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$927,925.00
			CONTINGENCY: 20%	→	\$185,600.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,113,525.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$167,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$111,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$278,500.00</b>

**TOTAL PROJECT COST \*:** \$1,392,030.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-56.0
Location:	Railroad Street between Existing Terminus and Dino Drive
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	2,044 Feet
Project Description:	New Segment - Extend Street (gap segment) 2 lane commercial. Half of segment has 10' median and other half uses TWLTL. Increased Environmental Mitigation (Item 11.1) due to soil contamination in nearby creek.
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

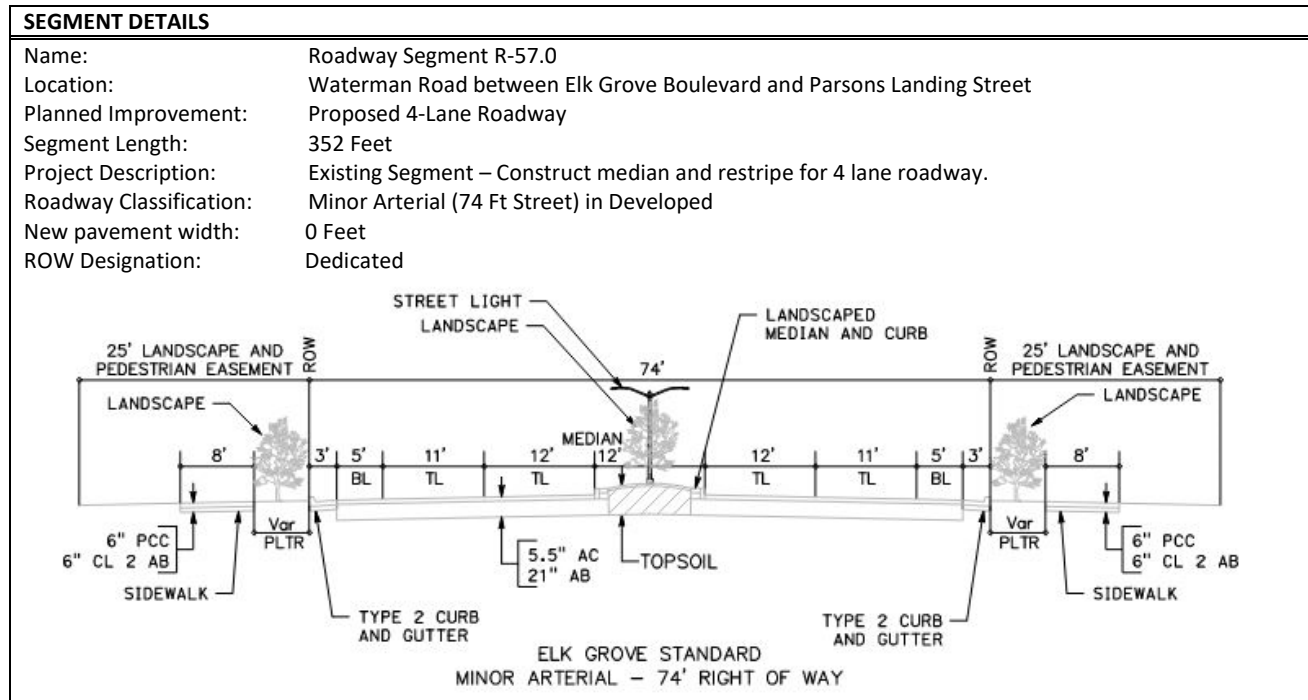
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	103,491	\$957,292.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	2,044	\$245,280.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$120,258.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$1,322,830.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$22,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$22,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$55,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$55,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$1,400,830.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	270	\$8,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$8,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	704	\$11,968.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$11,968.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-57.0
Location:	Waterman Road between Elk Grove Boulevard and Parsons Landing Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	352 Feet
Project Description:	Existing Segment – Construct median and restripe for 4 lane roadway.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	2,816	\$28,160.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$28,160.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$6,231.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$6,231.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$54,459.00
			CONTINGENCY: 20%	→	\$10,900.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$65,359.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$9,900.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$6,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$16,500.00</b>

**TOTAL PROJECT COST \*:**      **\$81,860.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-57.0
Location:	Waterman Road between Elk Grove Boulevard and Parsons Landing Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	352 Feet
Project Description:	Existing Segment – Construct median and restripe for 4 lane roadway.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$1,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$1,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$2,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$2,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):      \$3,400.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-58.0
Location:	Waterman Road between Parsons Landing Street and Dino Drive/Mainline
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	17 Feet
Project Description:	Existing Segment – Construct median and restripe for 4 lane roadway. Widen to BOW and resurface at gap closure (8' wide, 120' in length)
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	8 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	120	\$3,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$3,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	120	\$12,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$12,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	50	\$4,500.00
3.2	AGGREGATE BASE	CY	\$60.00	90	\$5,400.00
3.3	SIDEWALK	SF	\$12.00	960	\$11,520.00
3.4	CURB & GUTTER	LF	\$45.00	120	\$5,400.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	34	\$578.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$27,398.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-58.0
Location:	Waterman Road between Parsons Landing Street and Dino Drive/Mainline
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	17 Feet
Project Description:	Existing Segment – Construct median and restripe for 4 lane roadway. Widen to BOW and resurface at gap closure (8' wide, 120' in length)
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	8 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	17	\$952.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	1	\$10,000.00
4.5	LANDSCAPING	SF	\$10.00	136	\$1,360.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$12,312.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$5,599.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$5,599.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$60,909.00
			CONTINGENCY: 20%	→	\$12,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$73,109.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$11,000.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$7,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$18,400.00</b>

**TOTAL PROJECT COST \*:**      **\$91,510.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-58.0
Location:	Waterman Road between Parsons Landing Street and Dino Drive/Mainline
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	17 Feet
Project Description:	Existing Segment – Construct median and restripe for 4 lane roadway. Widen to BOW and resurface at gap closure (8' wide, 120' in length)
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	8 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

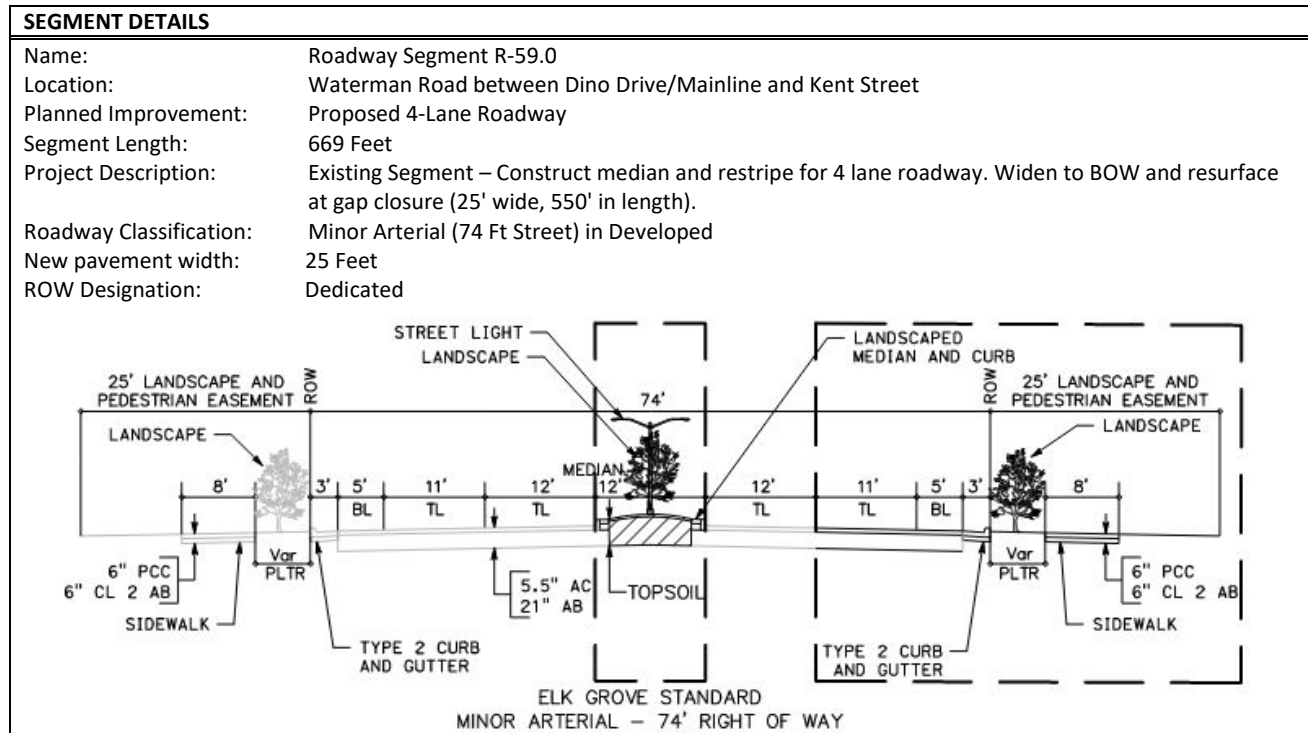
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	3,822	\$35,354.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	120	\$14,400.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$4,976.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$54,730.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$7,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$7,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$2,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$2,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$64,330.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,740	\$52,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$52,200.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	550	\$55,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$55,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	870	\$78,300.00
3.2	AGGREGATE BASE	CY	\$60.00	1,200	\$72,000.00
3.3	SIDEWALK	SF	\$12.00	4,400	\$52,800.00
3.4	CURB & GUTTER	LF	\$45.00	550	\$24,750.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,338	\$22,746.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$250,596.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-59.0
Location:	Waterman Road between Dino Drive/Mainline and Kent Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	669 Feet
Project Description:	Existing Segment – Construct median and restripe for 4 lane roadway. Widen to BOW and resurface at gap closure (25' wide, 550' in length).
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	25 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	669	\$37,464.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	5,352	\$53,520.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$130,984.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$51,554.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$51,554.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$540,334.00
			CONTINGENCY: 20%	→	\$108,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$648,434.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$97,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$64,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$162,200.00</b>

**TOTAL PROJECT COST \*:**     **\$810,640.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-59.0
Location:	Waterman Road between Dino Drive/Mainline and Kent Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	669 Feet
Project Description:	Existing Segment – Construct median and restripe for 4 lane roadway. Widen to BOW and resurface at gap closure (25' wide, 550' in length).
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	25 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

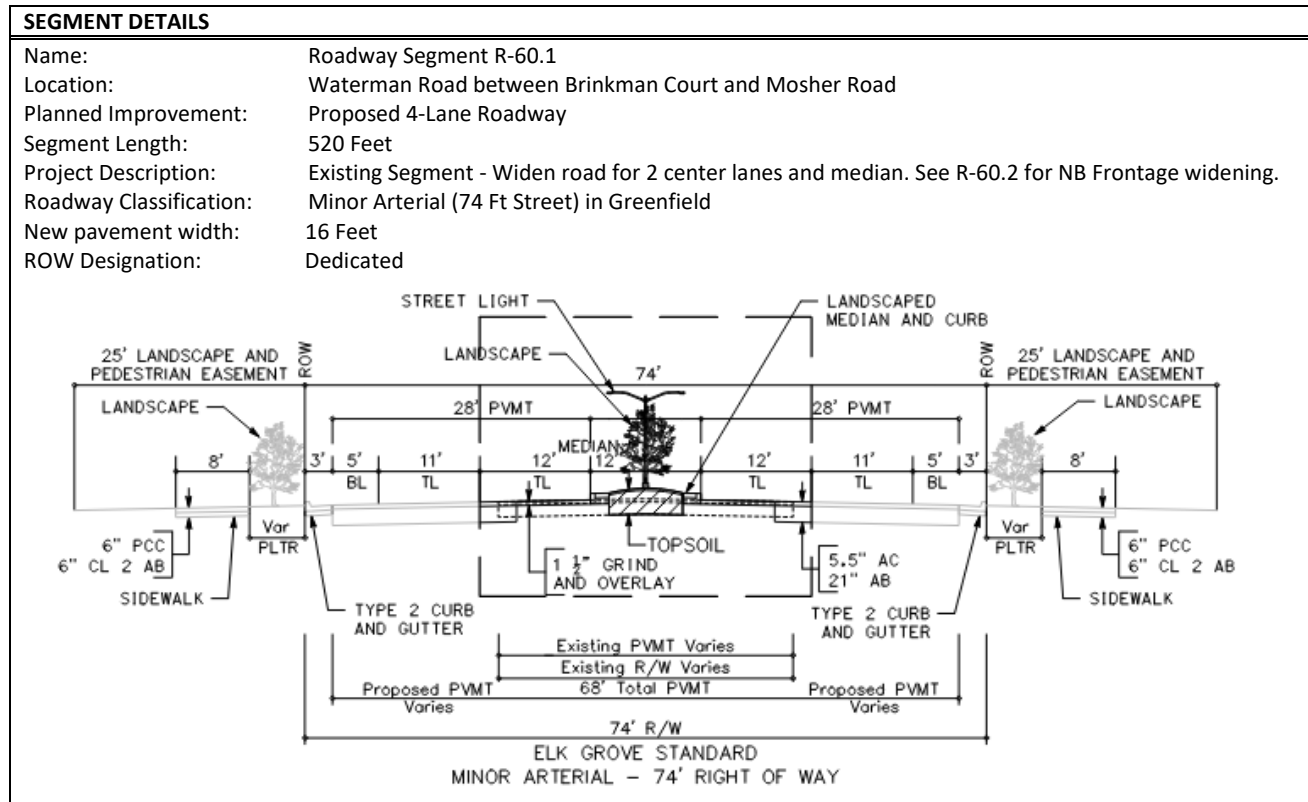
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$64,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$64,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$19,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$19,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$84,400.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,070	\$32,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$32,100.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	350	\$31,500.00
3.2	AGGREGATE BASE	CY	\$60.00	540	\$32,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,040	\$17,680.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$81,580.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-60.1
Location:	Waterman Road between Brinkman Court and Mosher Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	520 Feet
Project Description:	Existing Segment - Widen road for 2 center lanes and median. See R-60.2 for NB Frontage widening.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
4.5	LANDSCAPING	SF	\$10.00	4,160	\$41,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$71,600.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$18,528.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$18,528.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$203,808.00
			CONTINGENCY: 20%	→	\$40,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$244,608.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$36,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$24,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$61,200.00</b>

**TOTAL PROJECT COST \*:**      **\$305,810.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-60.1
Location:	Waterman Road between Brinkman Court and Mosher Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	520 Feet
Project Description:	Existing Segment - Widen road for 2 center lanes and median. See R-60.2 for NB Frontage widening.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$4,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$4,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$7,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$7,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$12,300.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-60.2
Location:	Waterman Road between Kent Street and Mosher Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,371 Feet
Project Description:	Existing Segment - Eastside frontage improvements only (Kent Street to Mosher Road). Frontage lane and sidewalk, ROW acquisition at home and lot to south of home (ROW at basin is City owned). Increased Utility Relocation to 5% for existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,040	\$61,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$61,200.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,371	\$137,100.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$137,100.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	780	\$70,200.00
3.2	AGGREGATE BASE	CY	\$60.00	1,660	\$99,600.00
3.3	SIDEWALK	SF	\$12.00	10,968	\$131,616.00
3.4	CURB & GUTTER	LF	\$45.00	1,371	\$61,695.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$363,111.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-60.2
Location:	Waterman Road between Kent Street and Mosher Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,371 Feet
Project Description:	Existing Segment - Eastside frontage improvements only (Kent Street to Mosher Road). Frontage lane and sidewalk, ROW acquisition at home and lot to south of home (ROW at basin is City owned). Increased Utility Relocation to 5% for existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,371	\$76,776.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	23,307	\$233,070.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$309,846.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$87,126.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$87,126.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$958,383.00
			CONTINGENCY: 20%	→	\$191,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,150,083.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$172,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$115,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$287,700.00</b>

**TOTAL PROJECT COST \*:** \$1,437,790.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-60.2
Location:	Waterman Road between Kent Street and Mosher Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,371 Feet
Project Description:	Existing Segment - Eastside frontage improvements only (Kent Street to Mosher Road). Frontage lane and sidewalk, ROW acquisition at home and lot to south of home (ROW at basin is City owned). Increased Utility Relocation to 5% for existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	16 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

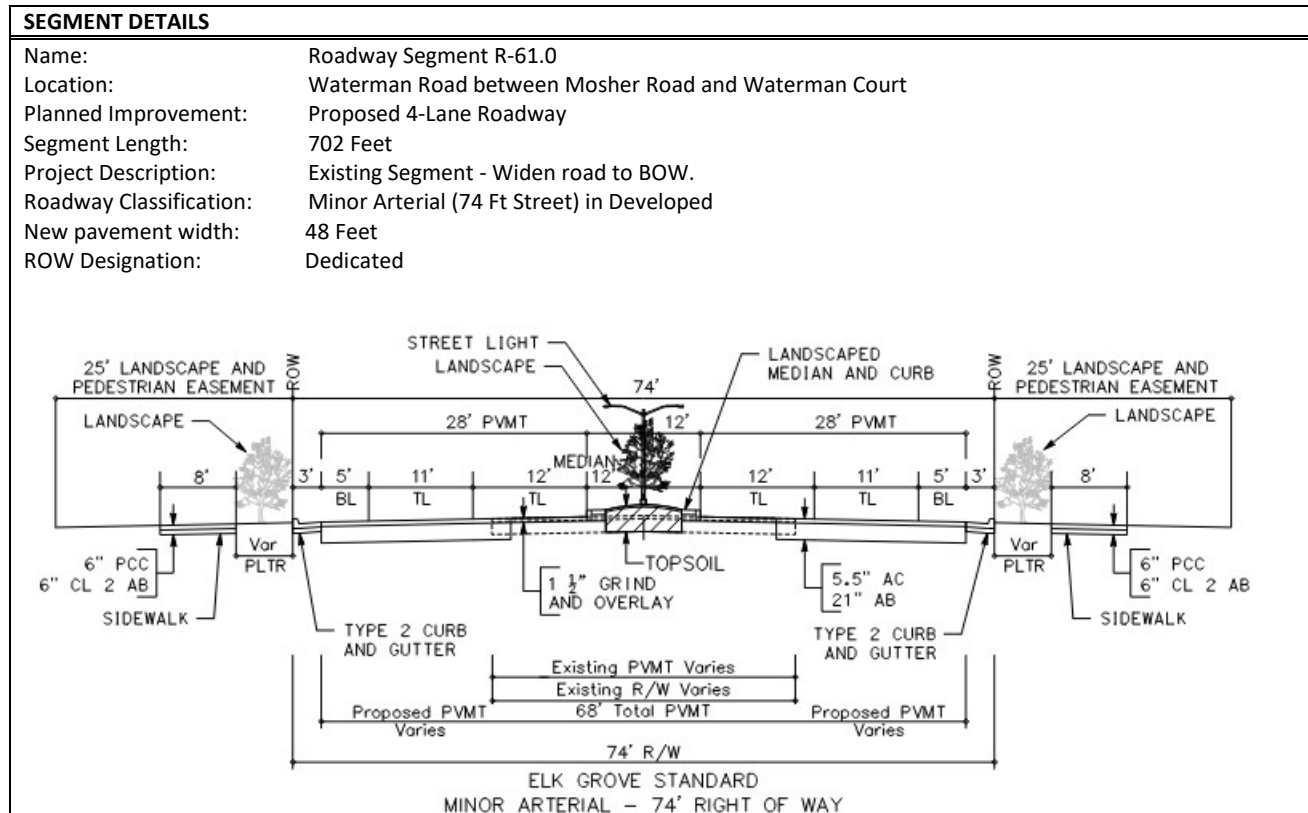
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	37,971	\$85,435.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,371	\$54,840.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$14,028.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$154,303.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$115,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$115,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$34,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$34,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$304,003.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,540	\$106,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$106,200.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	702	\$70,200.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$70,200.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,270	\$114,300.00
3.2	AGGREGATE BASE	CY	\$60.00	2,470	\$148,200.00
3.3	SIDEWALK	SF	\$12.00	11,232	\$134,784.00
3.4	CURB & GUTTER	LF	\$45.00	1,404	\$63,180.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,404	\$23,868.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$484,332.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-61.0
Location:	Waterman Road between Mosher Road and Waterman Court
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	702 Feet
Project Description:	Existing Segment - Widen road to BOW.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	48 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	702	\$39,312.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	5,616	\$56,160.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$135,472.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$79,621.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$79,621.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$875,825.00
			CONTINGENCY: 20%	→	\$175,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,051,025.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$157,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$105,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$262,900.00</b>

**TOTAL PROJECT COST \*: \$1,313,930.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-61.0
Location:	Waterman Road between Mosher Road and Waterman Court
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	702 Feet
Project Description:	Existing Segment - Widen road to BOW.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	48 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$21,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$21,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$31,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$31,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$52,700.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-62.0
Location:	Waterman Road between Bond Road and South End of Cemetary
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,356 Feet
Project Description:	Existing Segment – Reconstruct as 4 lane with median. Higher Utility Relocation used for required relocation of overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Acquisition

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	15,120	\$453,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$453,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	3,356	\$335,600.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$335,600.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	5,490	\$494,100.00
3.2	AGGREGATE BASE	CY	\$60.00	10,010	\$600,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	6,712	\$114,104.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,208,804.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-62.0
Location:	Waterman Road between Bond Road and South End of Cemetary
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,356 Feet
Project Description:	Existing Segment – Reconstruct as 4 lane with median. Higher Utility Relocation used for required relocation of overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	3,356	\$187,936.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.5	LANDSCAPING	SF	\$10.00	26,848	\$268,480.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$616,416.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$261,442.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$261,442.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,875,862.00
			CONTINGENCY: 20%	→	\$575,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$3,451,062.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$517,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$345,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$862,900.00</b>

**TOTAL PROJECT COST \*:** \$4,313,970.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-62.0
Location:	Waterman Road between Bond Road and South End of Cemetary
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,356 Feet
Project Description:	Existing Segment – Reconstruct as 4 lane with median. Higher Utility Relocation used for required relocation of overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	46 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	57,180	\$128,655.00
9.2	EASEMENT	SF	\$2.25	114,435	\$257,479.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	3,356	\$134,240.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$52,038.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$572,412.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$345,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$345,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$103,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$103,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$1,021,212.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-63.0
Location:	Waterman Road between South End of Cemetery and Rancho Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	993 Feet
Project Description:	Existing Segment – Reconstruct 2 lanes with median. Acquisition for east half section only. Higher Utility Relocation used for required relocation of overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

**ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY**

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,690	\$80,700.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$80,700.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	993	\$99,300.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$99,300.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	850	\$76,500.00
3.2	AGGREGATE BASE	CY	\$60.00	1,550	\$93,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,986	\$33,762.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$203,262.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-63.0
Location:	Waterman Road between South End of Cemetery and Rancho Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	993 Feet
Project Description:	Existing Segment – Reconstruct 2 lanes with median. Acquisition for east half section only. Higher Utility Relocation used for required relocation of overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	993	\$55,608.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	5	\$50,000.00
4.5	LANDSCAPING	SF	\$10.00	7,944	\$79,440.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$185,048.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$56,831.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$56,831.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$625,141.00
			CONTINGENCY: 20%	→	\$125,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$750,241.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$112,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$75,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$187,700.00</b>

**TOTAL PROJECT COST \*:**      **\$937,950.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-63.0
Location:	Waterman Road between South End of Cemetery and Rancho Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	993 Feet
Project Description:	Existing Segment – Reconstruct 2 lanes with median. Acquisition for east half section only. Higher Utility Relocation used for required relocation of overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

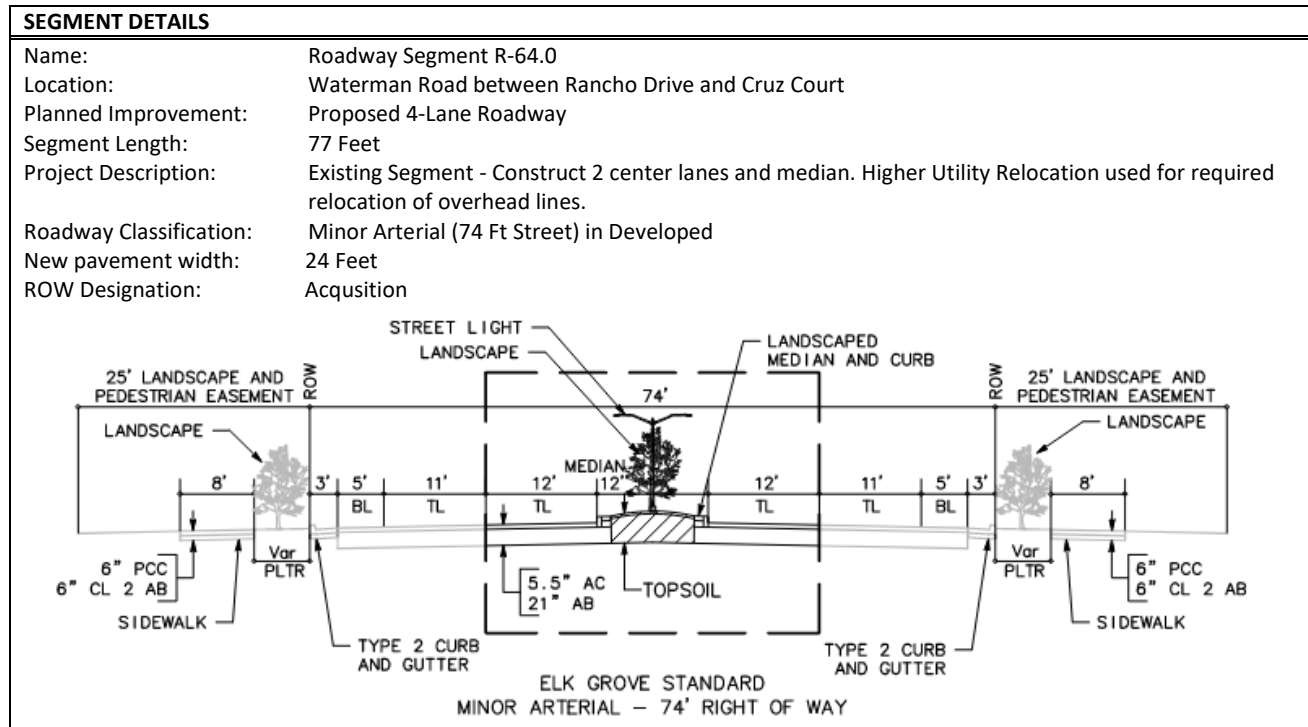
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	7,488	\$69,264.00
9.3	ACQUISITON SOFT COST	LF	\$120.00	993	\$119,160.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$18,843.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$207,267.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$75,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$75,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$22,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$22,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$304,967.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	210	\$6,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$6,300.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	77	\$7,700.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$7,700.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	70	\$6,300.00
3.2	AGGREGATE BASE	CY	\$60.00	120	\$7,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	154	\$2,618.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$16,118.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-64.0
Location:	Waterman Road between Rancho Drive and Cruz Court
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	77 Feet
Project Description:	Existing Segment - Construct 2 center lanes and median. Higher Utility Relocation used for required relocation of overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	77	\$4,312.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	1	\$10,000.00
4.5	LANDSCAPING	SF	\$10.00	616	\$6,160.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$20,472.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$5,059.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$5,059.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$55,649.00
			CONTINGENCY: 20%	→	\$11,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$66,849.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$10,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$6,700.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$16,800.00</b>

**TOTAL PROJECT COST \*:**      **\$83,650.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-64.0
Location:	Waterman Road between Rancho Drive and Cruz Court
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	77 Feet
Project Description:	Existing Segment - Construct 2 center lanes and median. Higher Utility Relocation used for required relocation of overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Developed
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	811	\$7,502.00
9.3	ACQUISITON SOFT COST	LF	\$120.00	77	\$9,240.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$1,675.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$18,417.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$6,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$6,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$2,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$2,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$27,217.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-65.0
Location:	Waterman Road between 500 ft south of Brown Road and Calvine Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	1,416 Feet
Project Description:	Existing Segment - Remove excess pavement (635' of segment). Widen road on NB side for median, 12' travel lane, 5' BL, C&G, and 5' sidewalk.
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	18 Feet
ROW Designation:	Dedicated

**ELK GROVE STANDARD  
COLLECTOR – 50' RIGHT OF WAY**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,440	\$163,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$163,200.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	960	\$86,400.00
3.2	AGGREGATE BASE	CY	\$60.00	1,470	\$88,200.00
3.3	SIDEWALK	SF	\$12.00	7,080	\$84,960.00
3.4	CURB & GUTTER	LF	\$45.00	1,416	\$63,720.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	2,832	\$48,144.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$371,424.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-65.0
Location:	Waterman Road between 500 ft south of Brown Road and Calvine Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	1,416 Feet
Project Description:	Existing Segment - Remove excess pavement (635' of segment). Widen road on NB side for median, 12' travel lane, 5' BL, C&G, and 5' sidewalk.
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	18 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	16,992	\$169,920.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$209,920.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$74,455.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$74,455.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$818,999.00
	CONTINGENCY: 20% →	\$163,800.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$982,799.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$147,500.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$98,300.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$245,800.00</b>

**TOTAL PROJECT COST \*:** \$1,228,600.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-65.0
Location:	Waterman Road between 500 ft south of Brown Road and Calvine Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	1,416 Feet
Project Description:	Existing Segment - Remove excess pavement (635' of segment). Widen road on NB side for median, 12' travel lane, 5' BL, C&G, and 5' sidewalk.
Roadway Classification:	Collector (50 Ft Street) in Developed
New pavement width:	18 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$9.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$19,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$19,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$29,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$29,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$49,200.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-66.0
Location:	Willard Parkway between Epoch Drive and Kammerer Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	950 Feet
Project Description:	Existing Segment - Construct 2 center lanes and median, west half section frontage lane, bike, curb and gutter
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	40 Feet
ROW Designation:	Dedicated

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,880	\$116,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$116,400.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	950	\$95,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$95,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,350	\$121,500.00
3.2	AGGREGATE BASE	CY	\$60.00	2,520	\$151,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	950	\$42,750.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,900	\$32,300.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$347,750.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-66.0
Location:	Willard Parkway between Epoch Drive and Kammerer Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	950 Feet
Project Description:	Exsiting Segment - Construct 2 center lanes and median, west half section frontage lane, bike, curb and gutter
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	40 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	950	\$53,200.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	5	\$50,000.00
4.5	LANDSCAPING	SF	\$10.00	7,600	\$76,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$179,200.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$73,835.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$73,835.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$812,185.00
			CONTINGENCY: 20%	→	\$162,500.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$974,685.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$146,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$97,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$243,800.00</b>

**TOTAL PROJECT COST \*:** \$1,218,490.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-66.0
Location:	Willard Parkway between Epoch Drive and Kammerer Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	950 Feet
Project Description:	Exsiting Segment - Construct 2 center lanes and median, west half section frontage lane, bike, curb and gutter
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	40 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

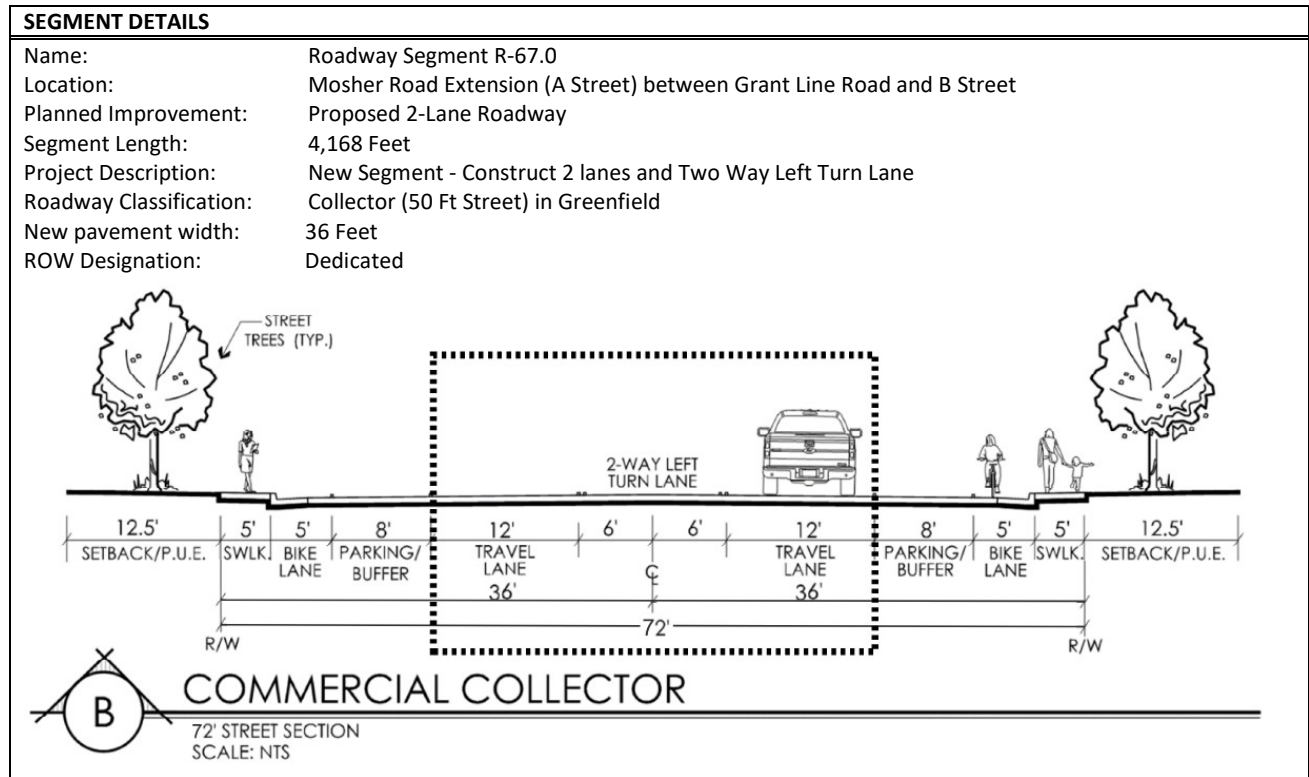
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$19,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$19,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$29,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$29,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$48,800.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	9,270	\$278,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$278,100.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	4,168	\$416,800.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$416,800.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,880	\$349,200.00
3.2	AGGREGATE BASE	CY	\$60.00	7,410	\$444,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$793,800.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-67.0
Location:	Mosher Road Extension (A Street) between Grant Line Road and B Street
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	4,168 Feet
Project Description:	New Segment - Construct 2 lanes and Two Way Left Turn Lane
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	36 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	19	\$190,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$190,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$167,870.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$167,870.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,846,570.00
			CONTINGENCY: 20%	→	\$369,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,215,970.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$332,400.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$221,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$554,000.00</b>

**TOTAL PROJECT COST \*: \$2,769,970.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-67.0
Location:	Mosher Road Extension (A Street) between Grant Line Road and B Street
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	4,168 Feet
Project Description:	New Segment - Construct 2 lanes and Two Way Left Turn Lane
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	36 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$44,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$44,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$66,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$66,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$110,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-68.0
Location:	Waterman Road Extension (B Street) between Grant Line Road and A Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,655 Feet
Project Description:	New Segment - Construct 4 lanes and median. Improvements are full width.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Dedicated

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	13,170	\$395,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$395,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,655	\$165,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$165,500.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,300	\$297,000.00
3.2	AGGREGATE BASE	CY	\$60.00	6,560	\$393,600.00
3.3	SIDEWALK	SF	\$12.00	19,860	\$238,320.00
3.4	CURB & GUTTER	LF	\$45.00	3,310	\$148,950.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	3,310	\$56,270.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,134,140.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-68.0
Location:	Waterman Road Extension (B Street) between Grant Line Road and A Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,655 Feet
Project Description:	New Segment - Construct 4 lanes and median. Improvements are full width.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,655	\$92,680.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	8	\$80,000.00
4.5	LANDSCAPING	SF	\$10.00	76,130	\$761,300.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$933,980.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$262,932.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$262,932.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,892,252.00
			CONTINGENCY: 20%	→	\$578,500.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$3,470,752.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$520,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$347,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$867,800.00</b>

**TOTAL PROJECT COST \*: \$4,338,560.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-68.0
Location:	Waterman Road Extension (B Street) between Grant Line Road and A Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,655 Feet
Project Description:	New Segment - Construct 4 lanes and median. Improvements are full width.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

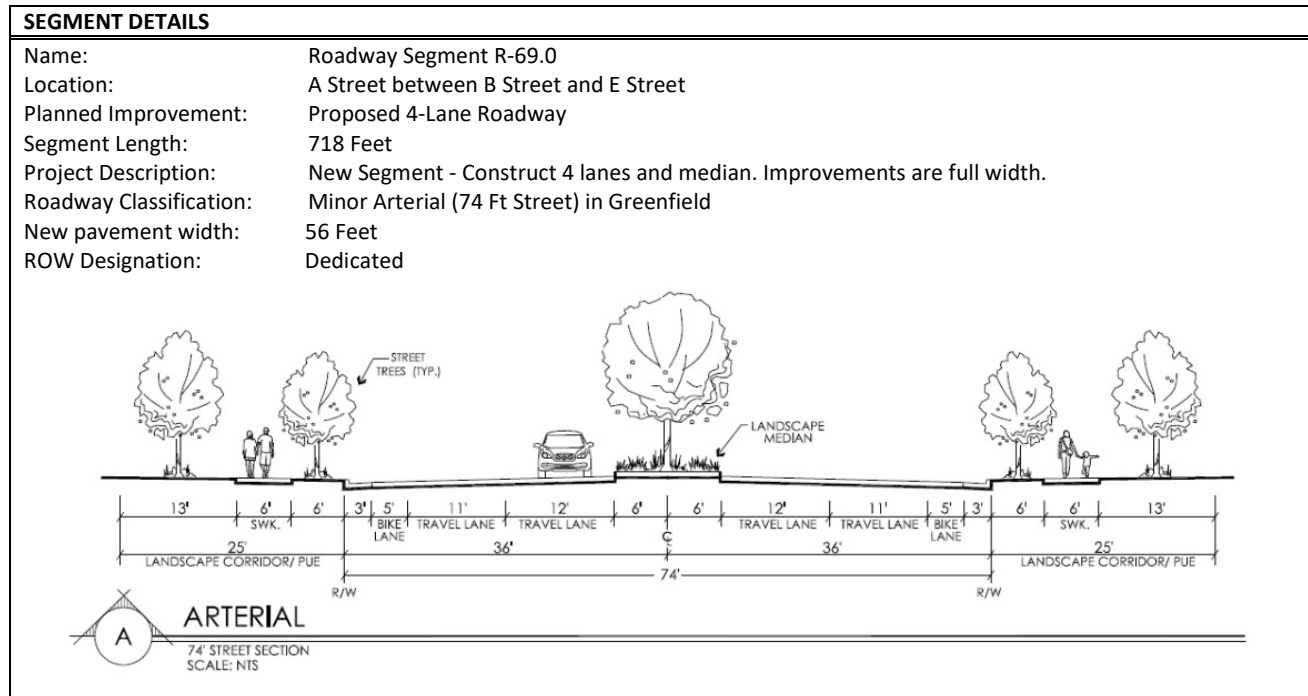
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$69,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$69,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$104,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$104,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$173,700.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,720	\$171,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$171,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	718	\$71,800.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$71,800.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,430	\$128,700.00
3.2	AGGREGATE BASE	CY	\$60.00	3,170	\$190,200.00
3.3	SIDEWALK	SF	\$12.00	8,616	\$103,392.00
3.4	CURB & GUTTER	LF	\$45.00	1,436	\$64,620.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,436	\$24,412.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$511,324.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-69.0
Location:	A Street between B Street and E Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	718 Feet
Project Description:	New Segment - Construct 4 lanes and median. Improvements are full width.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	718	\$40,208.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	38,780	\$387,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$468,008.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$122,274.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$122,274.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,345,006.00
			CONTINGENCY: 20%	→	\$269,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,614,106.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$242,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$161,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$403,700.00</b>

**TOTAL PROJECT COST \*: \$2,017,810.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-69.0
Location:	A Street between B Street and E Street
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	718 Feet
Project Description:	New Segment - Construct 4 lanes and median. Improvements are full width.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	56 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$32,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$32,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$48,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$48,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$80,800.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-70.0
Location:	Bond Road between Bradshaw Road and Bader Rd
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	2,129 Feet
Project Description:	Existing Segment – Reconstruct divided 2 Lane facility and widen shoulders. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

RURAL ROAD IMPROVEMENT STANDARD

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	7,360	\$220,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$220,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,820	\$163,800.00
3.2	AGGREGATE BASE	CY	\$60.00	2,530	\$151,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$315,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-70.0
Location:	Bond Road between Bradshaw Road and Bader Rd
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	2,129 Feet
Project Description:	Existing Segment – Reconstruct divided 2 Lane facility and widen shoulders. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,129	\$119,224.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$139,224.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$67,563.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$67,563.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$743,187.00
			CONTINGENCY: 20%	→	\$148,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$891,887.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$133,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$89,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$223,000.00</b>

**TOTAL PROJECT COST \*:** \$1,114,890.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-70.0
Location:	Bond Road between Bradshaw Road and Bader Rd
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	2,129 Feet
Project Description:	Existing Segment – Reconstruct divided 2 Lane facility and widen shoulders. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	61,061	\$137,388.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	2,129	\$85,160.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$22,255.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$244,803.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$17,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$17,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$26,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$26,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$289,503.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-71.0
Location:	Bond Road between Bader Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	4,073 Feet
Project Description:	Existing Segment – Reconstruct divided 2 Lane facility and widen shoulders. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

RURAL ROAD IMPROVEMENT STANDARD

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	14,080	\$422,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$422,400.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,480	\$313,200.00
3.2	AGGREGATE BASE	CY	\$60.00	4,830	\$289,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$603,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-71.0
Location:	Bond Road between Bader Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	4,073 Feet
Project Description:	Existing Segment – Reconstruct divided 2 Lane facility and widen shoulders. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	4,073	\$228,088.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$258,088.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$128,349.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$128,349.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,411,837.00
			CONTINGENCY: 20%	→	\$282,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,694,237.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$254,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$169,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$423,700.00</b>

**TOTAL PROJECT COST \*:** \$2,117,940.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-71.0
Location:	Bond Road between Bader Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	4,073 Feet
Project Description:	Existing Segment – Reconstruct divided 2 Lane facility and widen shoulders. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	127,691	\$287,305.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	4,073	\$162,920.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$45,023.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$495,248.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$33,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$33,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$50,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$50,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$580,048.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-72.0
Location:	Bradshaw Road between Calvine Road and Rural Elk Grove Area Boundary
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	6,462 Feet
Project Description:	Existing Segment - Widen from 2 to 4 Lanes. Assume full width improvements. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	32 Feet
ROW Designation:	Dedicated

**RURAL ROAD IMPROVEMENT STANDARD**

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	24,580	\$737,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$737,400.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	10,020	\$901,800.00
3.2	AGGREGATE BASE	CY	\$60.00	13,410	\$804,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,706,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-72.0
Location:	Bradshaw Road between Calvine Road and Rural Elk Grove Area Boundary
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	6,462 Feet
Project Description:	Existing Segment - Widen from 2 to 4 Lanes. Assume full width improvements. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	32 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	6,462	\$361,872.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$401,872.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$284,568.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$284,568.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$3,130,240.00
			CONTINGENCY: 20%	→	\$626,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$3,756,340.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$563,500.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$375,700.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$939,200.00</b>

**TOTAL PROJECT COST \*:** \$4,695,540.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-72.0
Location:	Bradshaw Road between Calvine Road and Rural Elk Grove Area Boundary
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	6,462 Feet
Project Description:	Existing Segment - Widen from 2 to 4 Lanes. Assume full width improvements. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	32 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$75,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$75,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$112,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$112,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$187,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-73.0
Location:	Bradshaw Road between Rural Elk Grove Area Boundary and Middle School
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,328 Feet
Project Description:	Existing Segment - Widen from 2 to 4 Lanes. Assume full width improvements. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	32 Feet
ROW Designation:	Acquisition

**RURAL ROAD IMPROVEMENT STANDARD**

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,050	\$151,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$151,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,060	\$185,400.00
3.2	AGGREGATE BASE	CY	\$60.00	2,760	\$165,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$351,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-73.0
Location:	Bradshaw Road between Rural Elk Grove Area Boundary and Middle School
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,328 Feet
Project Description:	Existing Segment - Widen from 2 to 4 Lanes. Assume full width improvements. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	32 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,328	\$74,368.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	1	\$10,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$84,368.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$58,687.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$58,687.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$645,555.00
	CONTINGENCY: 20% →	\$129,200.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$774,755.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$116,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$77,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$193,800.00</b>

**TOTAL PROJECT COST \*:**     **\$968,560.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-73.0
Location:	Bradshaw Road between Rural Elk Grove Area Boundary and Middle School
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,328 Feet
Project Description:	Existing Segment - Widen from 2 to 4 Lanes. Assume full width improvements. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	32 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	54,595	\$122,839.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,328	\$53,120.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$17,596.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$193,555.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$15,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$15,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$23,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$23,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$232,355.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-74.0
Location:	Bradshaw Road between Middle School and Bond Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	795 Feet
Project Description:	Existing Segment - Widen to add NB travel lane. Median will be moved to east to accommodate SB bike lane. Account for median, NB pavement widening, and NB frontage improvements.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	4 Feet
ROW Designation:	Acquisition

ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,860	\$55,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$55,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	795	\$79,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$79,500.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	650	\$58,500.00
3.2	AGGREGATE BASE	CY	\$60.00	370	\$22,200.00
3.3	SIDEWALK	SF	\$12.00	6,360	\$76,320.00
3.4	CURB & GUTTER	LF	\$45.00	795	\$35,775.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	1,590	\$27,030.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$219,825.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-74.0
Location:	Bradshaw Road between Middle School and Bond Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	795 Feet
Project Description:	Existing Segment - Widen to add NB travel lane. Median will be moved to east to accommodate SB bike lane. Account for median, NB pavement widening, and NB frontage improvements.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	4 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	795	\$44,520.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.5	LANDSCAPING	SF	\$10.00	19,875	\$198,750.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$283,270.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$63,840.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$63,840.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$702,235.00
			CONTINGENCY: 20%	→	\$140,500.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$842,735.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$126,500.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$84,300.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$210,800.00</b>

**TOTAL PROJECT COST \*:** \$1,053,540.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-74.0
Location:	Bradshaw Road between Middle School and Bond Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	795 Feet
Project Description:	Existing Segment - Widen to add NB travel lane. Median will be moved to east to accommodate SB bike lane. Account for median, NB pavement widening, and NB frontage improvements.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	4 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	14,541	\$32,718.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	795	\$31,800.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$6,452.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$70,970.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$16,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$16,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$25,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$25,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$113,170.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-75.1
Location:	Calvine Road between Bradshaw Road and Vineyard Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,899 Feet
Project Description:	Existing Segment - Frontage on WB side for gap closures. Gap closure is 1400' in length.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

CALVINE ROAD TYPICAL SECTION  
MINOR ARTERIAL – 96' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,770	\$53,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$53,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,400	\$140,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$140,000.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	290	\$17,400.00
3.3	SIDEWALK	SF	\$12.00	11,200	\$134,400.00
3.4	CURB & GUTTER	LF	\$45.00	1,400	\$63,000.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$214,800.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-75.1
Location:	Calvine Road between Bradshaw Road and Vineyard Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,899 Feet
Project Description:	Existing Segment - Frontage on WB side for gap closures. Gap closure is 1400' in length.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,400	\$78,400.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	7	\$70,000.00
4.5	LANDSCAPING	SF	\$10.00	83,283	\$832,830.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$981,230.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$138,913.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$138,913.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,528,043.00
			CONTINGENCY: 20%	→	\$305,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,833,743.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$275,100.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$183,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$458,500.00</b>

**TOTAL PROJECT COST \*: \$2,292,250.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-75.1
Location:	Calvine Road between Bradshaw Road and Vineyard Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,899 Feet
Project Description:	Existing Segment - Frontage on WB side for gap closures. Gap closure is 1400' in length.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$36,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$36,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$55,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$55,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$91,800.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-75.2
Location:	Calvine Road between Vineyard Road and Grant Line Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	9,188 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**CALVINE ROAD TYPICAL SECTION**  
MINOR ARTERIAL – 96' RIGHT OF WAY

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	24,850	\$745,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$745,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	9,188	\$918,800.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$918,800.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	7,840	\$705,600.00
3.2	AGGREGATE BASE	CY	\$60.00	14,300	\$858,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	18,376	\$312,392.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,875,992.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-75.2
Location:	Calvine Road between Vineyard Road and Grant Line Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	9,188 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	9,188	\$514,528.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	8	\$80,000.00
4.5	LANDSCAPING	SF	\$10.00	73,504	\$735,040.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,329,568.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$486,986.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$486,986.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$5,356,846.00
			CONTINGENCY: 20%	→	\$1,071,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$6,428,246.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$964,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$642,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,607,200.00</b>

**TOTAL PROJECT COST \*:** \$8,035,450.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-75.2
Location:	Calvine Road between Vineyard Road and Grant Line Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	9,188 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$128,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$128,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$192,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$192,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$321,500.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-76.0
Location:	Elk Grove Florin Road between Sheldon Road and Animal Care Center
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,092 Feet
Project Description:	Existing Segment - Widen for bike lane. 785' at north end of segment will have widening only in NB direction. Part of segment included in Elk Grove Florin Rd Grade Separation (G-4.0)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	8 Feet
ROW Designation:	Dedicated

RURAL ROAD IMPROVEMENT STANDARD

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,820	\$174,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$174,600.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,030	\$182,700.00
3.2	AGGREGATE BASE	CY	\$60.00	870	\$52,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$234,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-76.0
Location:	Elk Grove Florin Road between Sheldon Road and Animal Care Center
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,092 Feet
Project Description:	Existing Segment - Widen for bike lane. 785' at north end of segment will have widening only in NB direction. Part of segment included in Elk Grove Florin Rd Grade Separation (G-4.0)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	8 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,092	\$117,152.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$137,152.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$54,666.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$54,666.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$601,318.00
			CONTINGENCY: 20%	→	\$120,300.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$721,618.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$108,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$72,200.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$180,500.00</b>

**TOTAL PROJECT COST \*:** \$902,120.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-76.0
Location:	Elk Grove Florin Road between Sheldon Road and Animal Care Center
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,092 Feet
Project Description:	Existing Segment - Widen for bike lane. 785' at north end of segment will have widening only in NB direction. Part of segment included in Elk Grove Florin Rd Grade Separation (G-4.0)
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	8 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

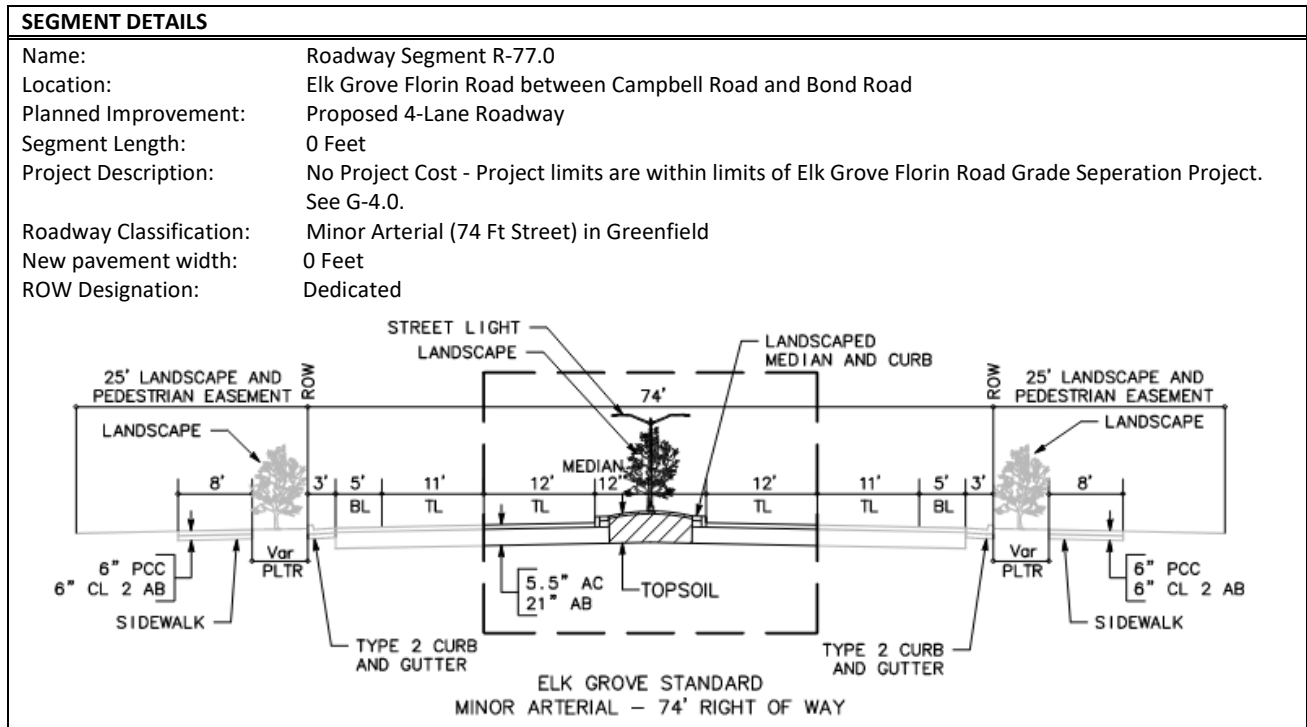
<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$14,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$14,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$21,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$21,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$36,200.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-77.0
Location:	Elk Grove Florin Road between Campbell Road and Bond Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No Project Cost - Project limits are within limits of Elk Grove Florin Road Grade Separation Project. See G-4.0.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$0.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$0.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$0.00
			CONTINGENCY: 20%	→	\$0.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$0.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$0.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$0.00</b>

**TOTAL PROJECT COST \*:** **\$0.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-77.0
Location:	Elk Grove Florin Road between Campbell Road and Bond Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No Project Cost - Project limits are within limits of Elk Grove Florin Road Grade Separation Project. See G-4.0.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	0 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$0.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$0.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$0.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

SEGMENT DETAILS	
Name:	Roadway Segment R-78.0
Location:	Grant Line Road between Elk Grove Boulevard and Equestrian Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,728 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	12,790	\$383,700.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$383,700.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	4,728	\$472,800.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$472,800.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	4,040	\$363,600.00
3.2	AGGREGATE BASE	CY	\$60.00	7,360	\$441,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	9,456	\$160,752.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$965,952.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-78.0
Location:	Grant Line Road between Elk Grove Boulevard and Equestrian Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,728 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	4,728	\$264,768.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	22	\$220,000.00
4.5	LANDSCAPING	SF	\$10.00	37,824	\$378,240.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$863,008.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$268,546.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$268,546.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,954,006.00
			CONTINGENCY: 20%	→	\$590,900.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$3,544,906.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$531,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$354,500.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$886,300.00</b>

**TOTAL PROJECT COST \*:** \$4,431,210.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-78.0
Location:	Grant Line Road between Elk Grove Boulevard and Equestrian Drive
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	4,728 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$354,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$354,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$106,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$106,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$460,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-79.0
Location:	Grant Line Road between Equestrian Drive and Bond Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,539 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,170	\$125,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$125,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	1,539	\$153,900.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$153,900.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,320	\$118,800.00
3.2	AGGREGATE BASE	CY	\$60.00	2,400	\$144,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	3,078	\$52,326.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$315,126.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-79.0
Location:	Grant Line Road between Equestrian Drive and Bond Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,539 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	1,539	\$86,184.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	7	\$70,000.00
4.5	LANDSCAPING	SF	\$10.00	12,312	\$123,120.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$279,304.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$87,343.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$87,343.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$960,773.00
			CONTINGENCY: 20%	→	\$192,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,152,973.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$173,000.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$115,300.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$288,300.00</b>

**TOTAL PROJECT COST \*:** \$1,441,280.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-79.0
Location:	Grant Line Road between Equestrian Drive and Bond Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	1,539 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$115,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$115,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$34,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$34,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$149,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-80.0
Location:	Grant Line Road between Bond Road and Wilton Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,938 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	7,950	\$238,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$238,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	2,938	\$293,800.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$293,800.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,510	\$225,900.00
3.2	AGGREGATE BASE	CY	\$60.00	4,580	\$274,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	5,876	\$99,892.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$600,592.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-80.0
Location:	Grant Line Road between Bond Road and Wilton Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,938 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,938	\$164,528.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	14	\$140,000.00
4.5	LANDSCAPING	SF	\$10.00	23,504	\$235,040.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$539,568.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$167,246.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$167,246.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,839,706.00
			CONTINGENCY: 20%	→	\$368,000.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,207,706.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$331,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$220,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$552,000.00</b>

**TOTAL PROJECT COST \*:** \$2,759,710.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-80.0
Location:	Grant Line Road between Bond Road and Wilton Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,938 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$220,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$220,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$66,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$66,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$287,100.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-81.0
Location:	Grant Line Road between Wilton Road and Aleilani Lane
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No Project Cost - Costs included in I-30.0 (Aleliana Way) and I-31.0 (Wilton Road).
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY**

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-81.0
Location:	Grant Line Road between Wilton Road and Aleilani Lane
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No Project Cost - Costs included in I-30.0 (Aleliana Way) and I-31.0 (Wilton Road).
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$0.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$0.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$0.00
			CONTINGENCY: 20%	→	\$0.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$0.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$0.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$0.00</b>

**TOTAL PROJECT COST \*:** **\$0.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-81.0
Location:	Grant Line Road between Wilton Road and Aleilani Lane
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	0 Feet
Project Description:	No Project Cost - Costs included in I-30.0 (Aleliana Way) and I-31.0 (Wilton Road).
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

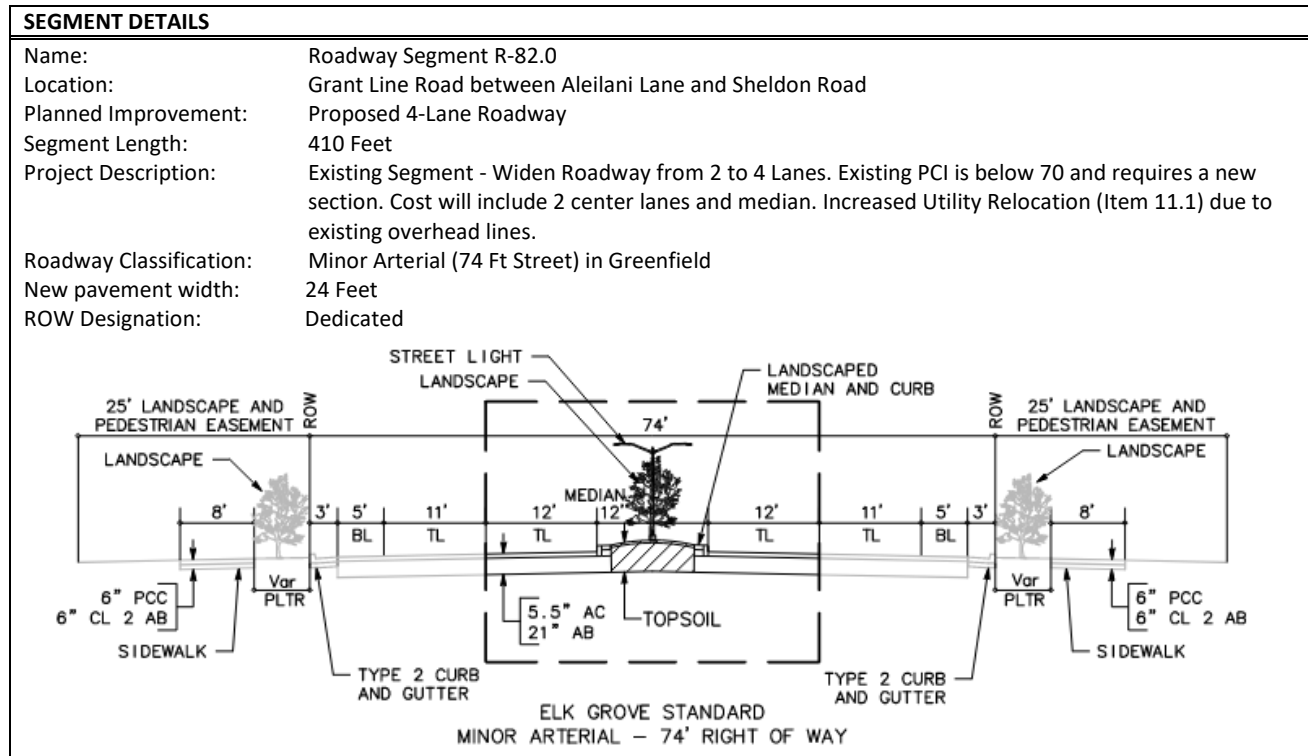
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$0.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$0.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$0.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,110	\$33,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$33,300.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	410	\$41,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$41,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	350	\$31,500.00
3.2	AGGREGATE BASE	CY	\$60.00	640	\$38,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	820	\$13,940.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$83,840.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-82.0
Location:	Grant Line Road between Aleilani Lane and Sheldon Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	410 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	410	\$22,960.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	3,280	\$32,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$75,760.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$23,390.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$23,390.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$257,290.00
			CONTINGENCY: 20%	→	\$51,500.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$308,790.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$46,400.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$30,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$77,300.00</b>

**TOTAL PROJECT COST \*:**      **\$386,090.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-82.0
Location:	Grant Line Road between Aleilani Lane and Sheldon Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	410 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

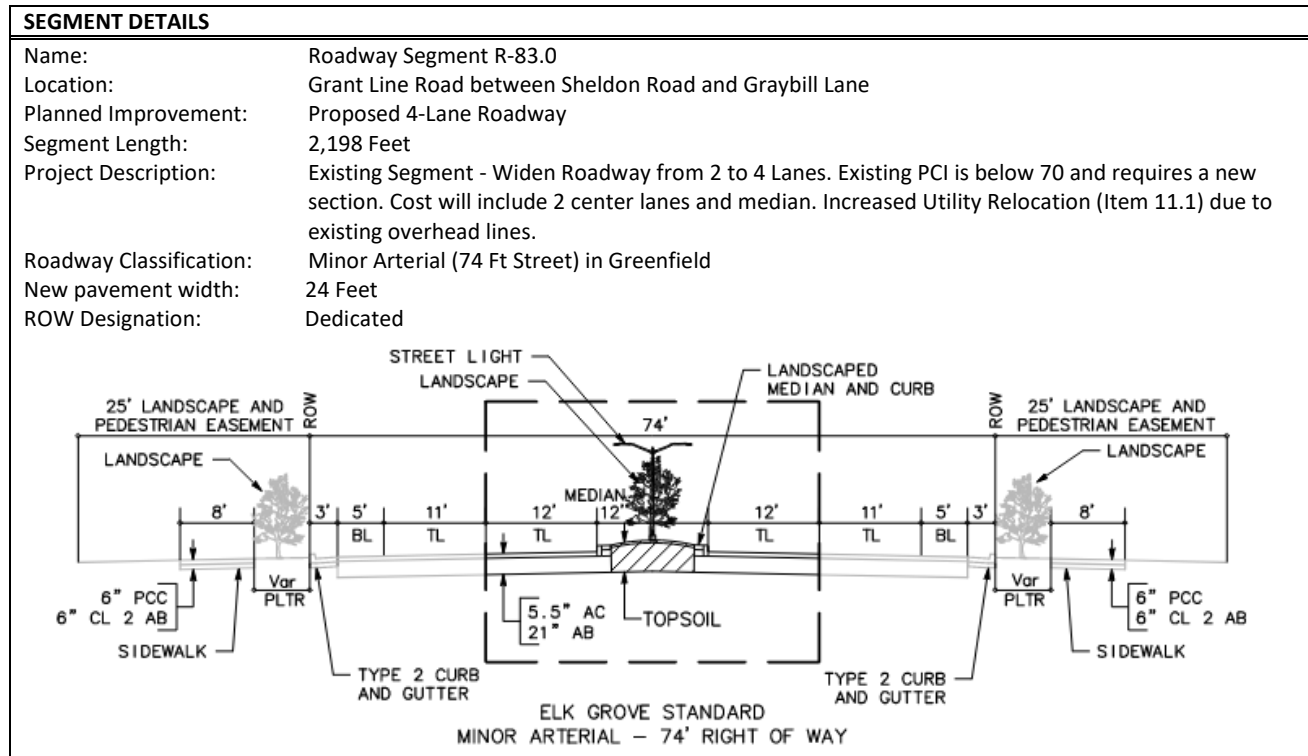
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$30,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$30,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$9,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$9,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$40,200.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,950	\$178,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$178,500.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	2,198	\$219,800.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$219,800.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,880	\$169,200.00
3.2	AGGREGATE BASE	CY	\$60.00	3,420	\$205,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	4,396	\$74,732.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$449,132.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-83.0
Location:	Grant Line Road between Sheldon Road and Graybill Lane
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,198 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	2,198	\$123,088.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	17,584	\$175,840.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$398,928.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$124,636.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$124,636.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,370,996.00
			CONTINGENCY: 20%	→	\$274,200.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,645,196.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$246,800.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$164,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$411,400.00</b>

**TOTAL PROJECT COST \*:** \$2,056,600.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-83.0
Location:	Grant Line Road between Sheldon Road and Graybill Lane
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	2,198 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$164,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$164,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$49,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$49,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$214,000.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-84.0
Location:	Grant Line Road between Graybill Lane and Calvine Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,938 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**ELK GROVE STANDARD  
MINOR ARTERIAL – 74' RIGHT OF WAY**

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	10,650	\$319,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$319,500.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	3,938	\$393,800.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$393,800.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,360	\$302,400.00
3.2	AGGREGATE BASE	CY	\$60.00	6,130	\$367,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	7,876	\$133,892.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$804,092.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-84.0
Location:	Grant Line Road between Graybill Lane and Calvine Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,938 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	3,938	\$220,528.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	18	\$180,000.00
4.5	LANDSCAPING	SF	\$10.00	31,504	\$315,040.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$715,568.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$223,296.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$223,296.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,456,256.00
			CONTINGENCY: 20%	→	\$491,300.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,947,556.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$442,200.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$294,800.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$737,000.00</b>

**TOTAL PROJECT COST \*:** \$3,684,560.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-84.0
Location:	Grant Line Road between Graybill Lane and Calvine Road
Planned Improvement:	Proposed 4-Lane Roadway
Segment Length:	3,938 Feet
Project Description:	Existing Segment - Widen Roadway from 2 to 4 Lanes. Existing PCI is below 70 and requires a new section. Cost will include 2 center lanes and median. Increased Utility Relocation (Item 11.1) due to existing overhead lines.
Roadway Classification:	Minor Arterial (74 Ft Street) in Greenfield
New pavement width:	24 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$294,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$294,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$88,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$88,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$383,300.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-85.0
Location:	Sheldon Road between Elk Grove Florin and Waterman Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	4,371 Feet
Project Description:	Existing Segment - Widen for bike lane and intermitten two way left turn lane.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	52 Feet
ROW Designation:	Acquisition

RURAL ROAD IMPROVEMENT STANDARD

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	22,670	\$680,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$680,100.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	5,880	\$529,200.00
3.2	AGGREGATE BASE	CY	\$60.00	11,230	\$673,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,203,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-85.0
Location:	Sheldon Road between Elk Grove Florin and Waterman Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	4,371 Feet
Project Description:	Existing Segment - Widen for bike lane and intermitten two way left turn lane.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	52 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	4,371	\$244,776.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	6	\$60,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$304,776.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$218,788.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$218,788.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,406,664.00
			CONTINGENCY: 20%	→	\$481,400.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,888,064.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$433,300.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$288,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$722,200.00</b>

**TOTAL PROJECT COST \*: \$3,610,270.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-85.0
Location:	Sheldon Road between Elk Grove Florin and Waterman Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	4,371 Feet
Project Description:	Existing Segment - Widen for bike lane and intermitten two way left turn lane.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	52 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	44,713	\$100,605.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	4,371	\$174,840.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$27,545.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$302,990.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$57,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$57,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$86,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$86,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$447,490.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-86.0
Location:	Sheldon Road between Waterman Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	14,959 Feet
Project Description:	Existing Segment - Widen for shoulders. Existing PCI is below 70 and requires a new section. Costs are from ROW to ROW.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	42 Feet
ROW Designation:	Acquisition

RURAL ROAD IMPROVEMENT STANDARD

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	68,340	\$2,050,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$2,050,200.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	16,240	\$1,461,600.00
3.2	AGGREGATE BASE	CY	\$60.00	31,030	\$1,861,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$3,323,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-86.0
Location:	Sheldon Road between Waterman Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	14,959 Feet
Project Description:	Existing Segment - Widen for shoulders. Existing PCI is below 70 and requires a new section. Costs are from ROW to ROW.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	42 Feet
ROW Designation:	Acquisition

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	14,959	\$837,704.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$937,704.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$631,131.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$631,131.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$1,500,000.00	1	\$1,500,000
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$1,500,000.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$8,442,435.00
			CONTINGENCY: 20%	→	\$1,688,500.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$10,130,935.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$1,519,700.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$1,013,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$2,532,800.00</b>

**TOTAL PROJECT COST \*:** \$12,663,740.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-86.0
Location:	Sheldon Road between Waterman Road and Grant Line Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	14,959 Feet
Project Description:	Existing Segment - Widen for shoulders. Existing PCI is below 70 and requires a new section. Costs are from ROW to ROW.
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	42 Feet
ROW Designation:	Acquisition

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	277,782	\$625,010.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITON SOFT COST	LF	\$40.00	14,959	\$598,360.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$122,337.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$1,345,707.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$202,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$202,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$304,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$304,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$1,852,407.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	Roadway Segment R-87.0
Location:	Waterman Road between Sheldon Road and 500 ft South of Brown Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	3,025 Feet
Project Description:	Existing Segment - Widen shoulders to 6'. 741' of segment (between north end and Elk Grove Rural Area Boundary) has sidewalk on SB side and will only account for widening on NB side. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	8 Feet
ROW Designation:	Dedicated

RURAL ROAD IMPROVEMENT STANDARD

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,460	\$133,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$133,800.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$100.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,660	\$149,400.00
3.2	AGGREGATE BASE	CY	\$60.00	1,050	\$63,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE MOW STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$212,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-87.0
Location:	Waterman Road between Sheldon Road and 500 ft South of Brown Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	3,025 Feet
Project Description:	Existing Segment - Widen shoulders to 6'. 741' of segment (between north end and Elk Grove Rural Area Boundary) has sidewalk on SB side and will only account for widening on NB side. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	8 Feet
ROW Designation:	Dedicated

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.5	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$20,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$36,620.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$36,620.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	SF	\$ --	--	\$ --
6.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$402,820.00
			CONTINGENCY: 20%	→	\$80,600.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$483,420.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$72,600.00
8.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$48,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$121,000.00</b>

**TOTAL PROJECT COST \*:**      **\$604,420.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Roadway Segment R-87.0
Location:	Waterman Road between Sheldon Road and 500 ft South of Brown Road
Planned Improvement:	Proposed 2-Lane Roadway
Segment Length:	3,025 Feet
Project Description:	Existing Segment - Widen shoulders to 6'. 741' of segment (between north end and Elk Grove Rural Area Boundary) has sidewalk on SB side and will only account for widening on NB side. Ditch is included in Roadway Excavation (Item 1.1)
Roadway Classification:	Collector (50 Ft Street) in Greenfield
New pavement width:	8 Feet
ROW Designation:	Dedicated

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$2.25	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$9,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$9,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$14,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$14,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):     \$24,300.00**

ATTACHMENT F – INTERSECTION ESTIMATES

ATTACHMENT F - INTERSECTION ESTIMATES

INTERSECTION SUMMARY ESTIMATE										
Intersection No.	N. Leg	S. Leg	E. Leg	W. Leg	Construction Cost (With 20% Contingency)	Engineering and Management Costs	Subtotal Capital Cost	R/W, Utility Relocation and Env. Mit. Costs	Combined Capital Cost + R/W, Utility Relocation, and Environmental Mitigation Cost	Notes
<b>COMBINED PROGRAMMING COSTS</b>					<b>\$159,649,450</b>	<b>\$40,723,300</b>	<b>\$200,375,300</b>	<b>\$20,942,741</b>	<b>\$221,318,041</b>	
I-1.0	Big Horn Blvd	Big Horn Blvd	Poppy Ridge Rd	Poppy Ridge Rd	\$2,413,700	\$603,500	\$3,017,200	\$153,300	\$3,170,500	
I-2.0	Big Horn Blvd	Big Horn Blvd	Spoonwood Dr	Machado Ranch Dr	\$3,170,070	\$792,700	\$3,962,800	\$158,700	\$4,121,500	
I-3.0	Big Horn Blvd	Big Horn Blvd	Elifa Rd	Road A	\$3,170,070	\$792,700	\$3,962,800	\$158,700	\$4,121,500	
I-4.0	Big Horn Blvd	Big Horn Blvd	Collector 2	Collector 2	\$3,170,070	\$792,700	\$3,962,800	\$213,141	\$4,175,941	
I-5.0	Big Horn Blvd	Big Horn Blvd	Red Elk Drive	Red Elk Drive	\$662,100	\$165,700	\$827,800	\$33,200	\$861,000	
I-6.1	Bruceville Road	Bruceville Road	Bilby Road	Bilby Road	\$1,559,675	\$390,000	\$1,949,700	\$202,800	\$2,152,500	
I-6.2	Bruceville Road	Bruceville Road	Bilby Road	Bilby Road	\$1,812,225	\$453,200	\$2,265,500	\$416,900	\$2,682,400	
I-7.0	Tillia Road	Tillia Road	Bilby Road	Bilby Road	\$2,308,520	\$577,200	\$2,885,800	\$115,500	\$3,001,300	
I-8.0	Big Horn Blvd	Mc Millan Rd	Bilby Road	Bilby Road	\$2,825,560	\$706,500	\$3,532,100	\$141,400	\$3,673,500	
I-9.0	Road B (West)	-	Bilby Road	Bilby Road	\$2,131,410	\$533,000	\$2,664,500	\$106,700	\$2,771,200	
I-10.0	Driveway	Collector 1	Bilby Road	Bilby Road	\$2,626,140	\$656,700	\$3,282,900	\$131,400	\$3,414,300	
I-11.0	Road B	Driveway	Bilby Road	Bilby Road	\$2,326,740	\$581,800	\$2,908,600	\$116,500	\$3,025,100	
I-12.0	Lotz Parkway	Lotz Parkway	Bilby Road	Bilby Road	\$4,096,970	\$1,024,300	\$5,121,300	\$205,000	\$5,326,300	
I-13.0	Grant Line Road	Grant Line Road	Wrangler Dr	Bond Rd	\$2,269,700	\$567,500	\$2,837,200	\$387,000	\$3,224,200	
I-14.0	Bradshaw Rd	Bradshaw Rd	Kapalua Ln	Stone Springs Dr	\$1,737,350	\$434,500	\$2,171,900	\$570,600	\$2,742,500	
I-15.0	Bradshaw Rd	Bradshaw Rd	-	Ridgerock Dr	\$1,607,950	\$402,000	\$2,010,000	\$80,500	\$2,090,500	
I-16.0	Bruceville Road	Bruceville Road	Elefa Ave	Boa Nova Dr	\$1,773,400	\$443,500	\$2,216,900	\$620,200	\$2,837,100	
I-17.0	Bruceville Road	Bruceville Road	Poppy Ridge Rd	Quail Run Ln	\$1,651,550	\$413,000	\$2,064,600	\$380,000	\$2,444,600	
I-18.0	Bruceville Road	Bruceville Road	Chester Dawson Way	Machado Ranch Dr	\$1,953,450	\$488,500	\$2,442,000	\$862,900	\$3,304,900	
I-19.0	Excelsior Road	Excelsior Road	Calvine Road	Calvine Road	\$2,787,500	\$697,000	\$3,484,500	\$362,500	\$3,847,000	
I-20.0	E Stockton Blvd	E Stockton Blvd	Union Park Way	-	\$594,400	\$166,600	\$761,000	\$29,800	\$790,800	
I-21.0	E Stockton Blvd	E Stockton Blvd	Elkmont Way	-	\$520,500	\$145,900	\$666,400	\$26,200	\$692,600	
I-22.0	Grant Line Road	Grant Line Road	-	Elk Grove Blvd	\$2,550,770	\$637,800	\$3,188,600	\$127,700	\$3,316,300	
I-23.0	Bradshaw Rd	Bradshaw Rd	Elk Grove Blvd	Elk Grove Blvd	\$3,754,800	\$938,800	\$4,693,600	\$590,000	\$5,283,600	
I-24.0	Driveway	Kent St	Elk Grove Blvd	Elk Grove Blvd	\$1,574,120	\$393,700	\$1,967,900	\$504,400	\$2,472,300	
I-25.0	Big Timber Dr	Big Timber Dr	Elk Grove Blvd	Elk Grove Blvd	\$1,576,600	\$394,200	\$1,970,800	\$78,900	\$2,049,700	Estimate is based on Elevate Summary Report Concepts
I-26.0	SR 99	SR 99	Elk Grove Blvd	Elk Grove Blvd	\$377,850	\$105,900	\$483,800	\$179,200	\$663,000	
I-27.0	Grant Line Road	Grant Line Road	-	Calvine Road	\$2,037,150	\$509,400	\$2,546,600	\$265,000	\$2,811,600	
I-28.0	Grant Line Road	Grant Line Road	-	Graybill Lane	\$3,763,710	\$941,000	\$4,704,800	\$1,133,400	\$5,838,200	Estimate is based on Grant Line Precise Plan Exhibits
I-29.0	Grant Line Road	Grant Line Road	-	Sheldon Road	\$4,126,320	\$1,031,700	\$5,158,100	\$664,300	\$5,822,400	Estimate is based on Grant Line Precise Plan Exhibits
I-30.0	Grant Line Road	Grant Line Road	Aleilani Lane	Aleilani Lane	\$2,899,720	\$725,000	\$3,624,800	\$853,600	\$4,478,400	Estimate is based on Grant Line Precise Plan Exhibits
I-31.0	Grant Line Road	Grant Line Road	Wilton Road	Pleasant Grove School Road	\$2,969,130	\$742,400	\$3,711,600	\$888,900	\$4,600,500	Estimate is based on Grant Line Precise Plan Exhibits
I-32.0	Bradshaw Rd	-	Grant Line Road	Grant Line Road	\$2,741,050	\$685,400	\$3,426,500	\$356,500	\$3,783,000	
I-33.1	Grant Line Road	Grant Line Road	Mosher Road	Mosher Road	\$1,662,550	\$415,700	\$2,078,300	\$216,200	\$2,294,500	
I-33.2	Grant Line Road	Grant Line Road	Mosher Road	Mosher Road	\$1,143,150	\$285,900	\$1,429,100	\$57,200	\$1,486,300	
I-34.1	Grant Line Road	Grant Line Road	-	Waterman Road	\$1,332,950	\$333,300	\$1,666,300	\$66,700	\$1,733,000	
I-34.2	Grant Line Road	Grant Line Road	-	Waterman Road	\$338,300	\$84,700	\$423,000	\$17,000	\$440,000	
I-34.3	Grant Line Road	Grant Line Road	-	Waterman Road	\$1,119,850	\$280,000	\$1,399,900	\$145,600	\$1,545,500	
I-35.1	Lotz Parkway	-	Kammerer Rd	Kammerer Rd	\$2,495,505	\$624,000	\$3,119,600	\$124,900	\$3,244,500	
I-35.2	Lotz Parkway	-	Kammerer Rd	Kammerer Rd	\$1,835,100	\$458,900	\$2,294,000	\$91,900	\$2,385,900	
I-35.3	Lotz Parkway	-	Kammerer Rd	Kammerer Rd	\$3,560,570	\$890,200	\$4,450,800	\$463,000	\$4,913,800	

ATTACHMENT F - INTERSECTION ESTIMATES

INTERSECTION SUMMARY ESTIMATE										
Intersection No.	N. Leg	S. Leg	E. Leg	W. Leg	Construction Cost (With 20% Contingency)	Engineering and Management Costs	Subtotal Capital Cost	R/W, Utility Relocation and Env. Mit. Costs	Combined Capital Cost + R/W, Utility Relocation, and Environmental Mitigation Cost	Notes
<b>COMBINED PROGRAMMING COSTS</b>					<b>\$159,649,450</b>	<b>\$40,723,300</b>	<b>\$200,375,300</b>	<b>\$20,942,741</b>	<b>\$221,318,041</b>	
I-36.1	Collector 1	-	Kammerer Rd	Kammerer Rd	\$2,278,320	\$569,700	\$2,848,100	\$296,300	\$3,144,400	
I-36.2	Collector 1	-	Kammerer Rd	Kammerer Rd	\$581,900	\$145,500	\$727,400	\$29,200	\$756,600	
I-36.3	Collector 1	-	Kammerer Rd	Kammerer Rd	\$2,503,940	\$626,000	\$3,130,000	\$125,300	\$3,255,300	
I-37.1	Big Horn Blvd	-	Kammerer Rd	Kammerer Rd	\$2,153,930	\$538,500	\$2,692,500	\$209,200	\$2,901,700	
I-37.2	Big Horn Blvd	-	Kammerer Rd	Kammerer Rd	\$1,737,400	\$434,500	\$2,171,900	\$226,000	\$2,397,900	
I-37.3	Big Horn Blvd	-	Kammerer Rd	Kammerer Rd	\$2,643,770	\$661,000	\$3,304,800	\$132,300	\$3,437,100	
I-38.1	Collector 2	-	Kammerer Rd	Kammerer Rd	\$2,155,770	\$539,000	\$2,694,800	\$566,300	\$3,261,100	
I-38.2	Collector 2	-	Kammerer Rd	Kammerer Rd	\$605,000	\$151,300	\$756,300	\$30,300	\$786,600	
I-38.3	Collector 2	-	Kammerer Rd	Kammerer Rd	\$1,851,860	\$463,000	\$2,314,900	\$92,700	\$2,407,600	
I-39.1	Bruceville Road	Bruceville Road	Kammerer Rd	Kammerer Rd	\$1,674,830	\$502,600	\$2,177,500	\$567,600	\$2,745,100	
I-39.2	Bruceville Road	Bruceville Road	Kammerer Rd	Kammerer Rd	\$1,553,400	\$466,200	\$2,019,600	\$202,100	\$2,221,700	
I-39.3	Bruceville Road	Bruceville Road	Kammerer Rd	Kammerer Rd	\$2,085,990	\$625,800	\$2,711,800	\$104,400	\$2,816,200	
I-40.0	Willard Parkway	-	Kammerer Rd	Kammerer Rd	\$4,245,880	\$1,273,800	\$5,519,700	\$212,400	\$5,732,100	
I-41.0	Franklin Blvd	Franklin Blvd	Kammerer Rd	Kammerer Rd	\$3,595,400	\$1,078,800	\$4,674,200	\$640,300	\$5,314,500	
I-42.0	W Stockton Blvd	Laguna Springs Dr	Laguna Blvd	Laguna Blvd	\$1,819,650	\$509,600	\$2,329,300	\$226,000	\$2,555,300	
I-43.0	SR 99 SB Off-ramp	-	Laguna Blvd	Laguna Blvd	\$668,100	\$187,300	\$855,400	\$94,600	\$950,000	
I-44.0	Lotz Parkway	Lotz Parkway	Road A	Kyler Rd	\$3,158,660	\$789,700	\$3,948,400	\$158,000	\$4,106,400	
I-45.0	Lotz Parkway	Lotz Parkway	Driveway	Serra Estrela Dr	\$1,883,275	\$470,900	\$2,354,200	\$94,200	\$2,448,400	
I-46.0	Lotz Parkway	Lotz Parkway	Driveway	Ponta Delgada Dr	\$2,330,100	\$582,700	\$2,912,800	\$116,700	\$3,029,500	
I-47.0	Waterman Rd	Waterman Rd	Mosher Road	Mosher Road	\$2,315,250	\$578,900	\$2,894,200	\$548,600	\$3,442,800	
I-48.0	Rhone River Dr	Waterman 75 Residential Street	Mosher Rd	Mosher Rd	\$1,943,350	\$486,000	\$2,429,400	\$97,300	\$2,526,700	
I-49.0	Lotz Parkway	Lotz Parkway	Promenade Parkway	Poppy Ridge Rd	\$4,613,700	\$1,153,500	\$5,767,200	\$508,400	\$6,275,600	
I-50.0	Power Inn Road	Power Inn Road	Geneva Point Drive	Geneva Point Drive	\$746,890	\$186,800	\$933,700	\$37,500	\$971,200	
I-51.0	Waterman Rd	Waterman Rd	E Park Dr	Rancho Dr	\$2,128,550	\$532,200	\$2,660,800	\$1,624,000	\$4,284,800	
I-52.0	Waterman Rd	Waterman Rd	Parsons Landing	Chianti Way	\$945,600	\$236,500	\$1,182,100	\$47,400	\$1,229,500	
I-53.0	Waterman Rd	Waterman Rd	Mainline Dr	Dino Dr	\$1,137,800	\$284,500	\$1,422,300	\$57,000	\$1,479,300	
I-54.0	Waterman Rd	Waterman Rd	Wayne Heintz St	Kent St	\$2,172,200	\$543,200	\$2,715,400	\$434,600	\$3,150,000	
I-55.0	Waterman Rd	Waterman Rd	Silverado Dr	Silverado Dr	\$2,362,790	\$590,800	\$2,953,600	\$529,800	\$3,483,400	
I-56.0	Lotz Parkway	Lotz Parkway	Whitelock Parkway	Whitelock Parkway	\$2,543,360	\$636,000	\$3,179,400	\$127,300	\$3,306,700	
I-57.0	Cape Verde Drive	Cape Verde Drive	Whitelock Parkway	Whitelock Parkway	\$864,300	\$242,200	\$1,106,500	\$43,300	\$1,149,800	
I-58.0	Lousada Drive	Lousada Drive	Whitelock Parkway	Whitelock Parkway	\$879,400	\$220,000	\$1,099,400	\$44,000	\$1,143,400	
I-59.0	A Street	A Street	E Court	E Street	\$4,143,920	\$1,036,000	\$5,180,000	\$207,300	\$5,387,300	Estimate is based on Elk Grove Southeast Industrial Area
I-60.0	A Street	A Street	-	B Street	\$3,897,920	\$974,500	\$4,872,500	\$195,000	\$5,067,500	Estimate is based on Elk Grove Southeast Industrial Area
I-61.0	Carinata Drive	Carinata Drive	Whitelock Parkway	Whitelock Parkway	\$399,000	\$99,800	\$498,800	\$20,000	\$518,800	
I-62.0	Various Signals	-	-	-	\$0	\$0	\$0	\$0	\$0	
<b>COMBINED PROGRAMMING COSTS</b>					<b>\$159,649,450</b>	<b>\$40,723,300</b>	<b>\$200,375,300</b>	<b>\$20,942,741</b>	<b>\$221,318,041</b>	

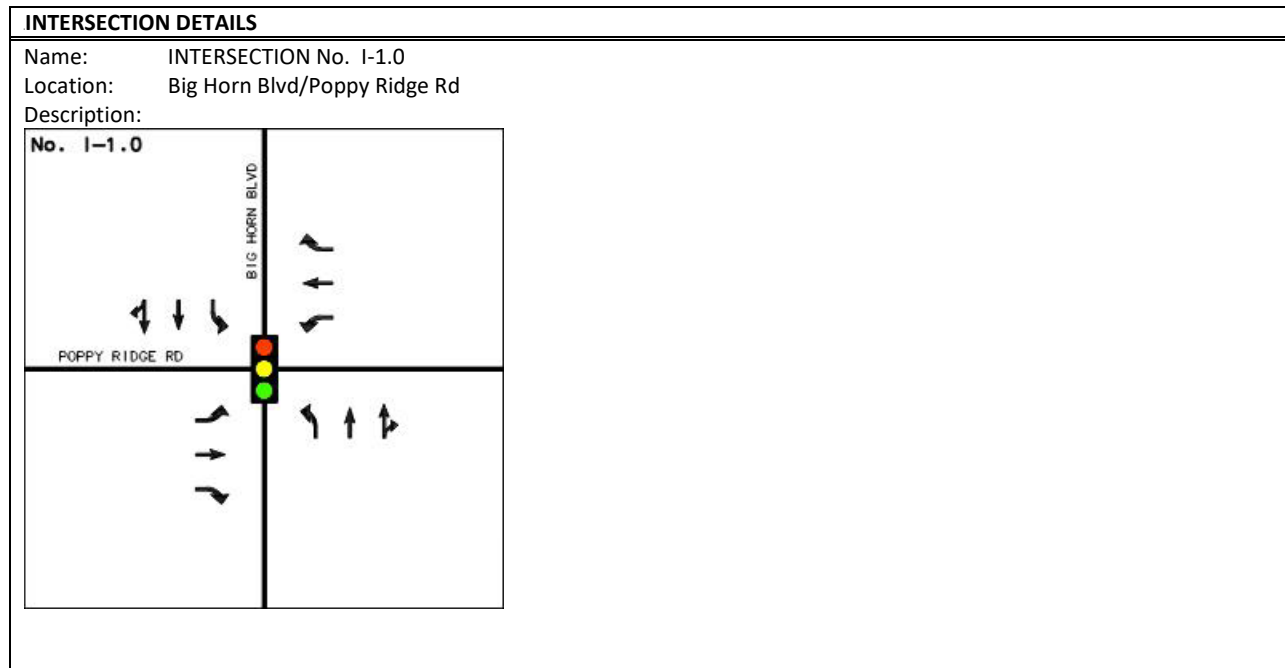
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-1.0					
Location:	Big Horn Blvd/Poppy Ridge Rd					
Description:	Install Traffic Signal 2X4 at a new intersection. The existing condition is stop controlled and right of way is required on the NB Leg on Big Horn Blvd.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
East	Poppy Ridge Rd			Collector	450	4" HMA on 16" AB
West	Poppy Ridge Rd			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,750	\$112,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$112,500.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,280	\$205,200.00
3.2	AGGREGATE BASE	CY	\$60.00	3,010	\$180,600.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,800	\$30,600.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$837,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$545,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$182,900.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$182,900.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,011,400.00
	CONTINGENCY: 20%	→ \$402,300.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,413,700.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-1.0
Location:	Big Horn Blvd/Poppy Ridge Rd
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$362,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$241,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$603,500.00</b>

**TOTAL PROJECT COST \*: \$3,017,200.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	5,078	\$11,500.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	450	\$18,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$2,950.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$32,450.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$48,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$48,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$72,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$72,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$153,300.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

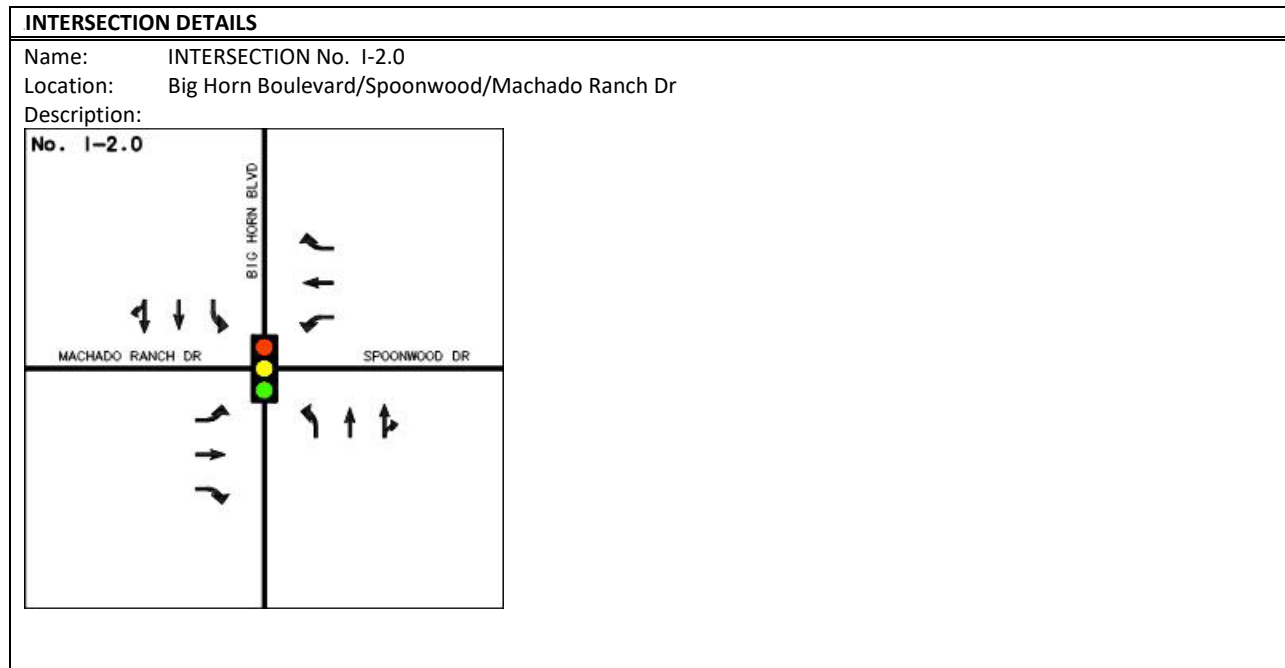
<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-2.0					
Location:	Big Horn Boulevard/Spoonwood/Machado Ranch Dr					
Description:	Install Traffic Signal 2X4 as a new intersection. All of the legs need to be built out to the full extent from back of walk to back of walk.					
<p>The diagram shows a four-way intersection. Big Horn Blvd runs north-south. Machado Ranch Dr runs west from Big Horn Blvd, and Spoonwood Dr runs east from Big Horn Blvd. A traffic signal is located at the center of the intersection. Lane markings include through, left-turn, and right-turn lanes on all four approaches. A north arrow is shown in the upper right quadrant.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
East	Spoonwood Dr			Collector	450	4" HMA on 16" AB
West	Machado Ranch Dr			Collector	450	4" HMA on 16" AB
	Dr					

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	8,890	\$266,700.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$266,700.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,593	\$323,370.00
3.2	AGGREGATE BASE	CY	\$60.00	7,270	\$436,200.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,241,970.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



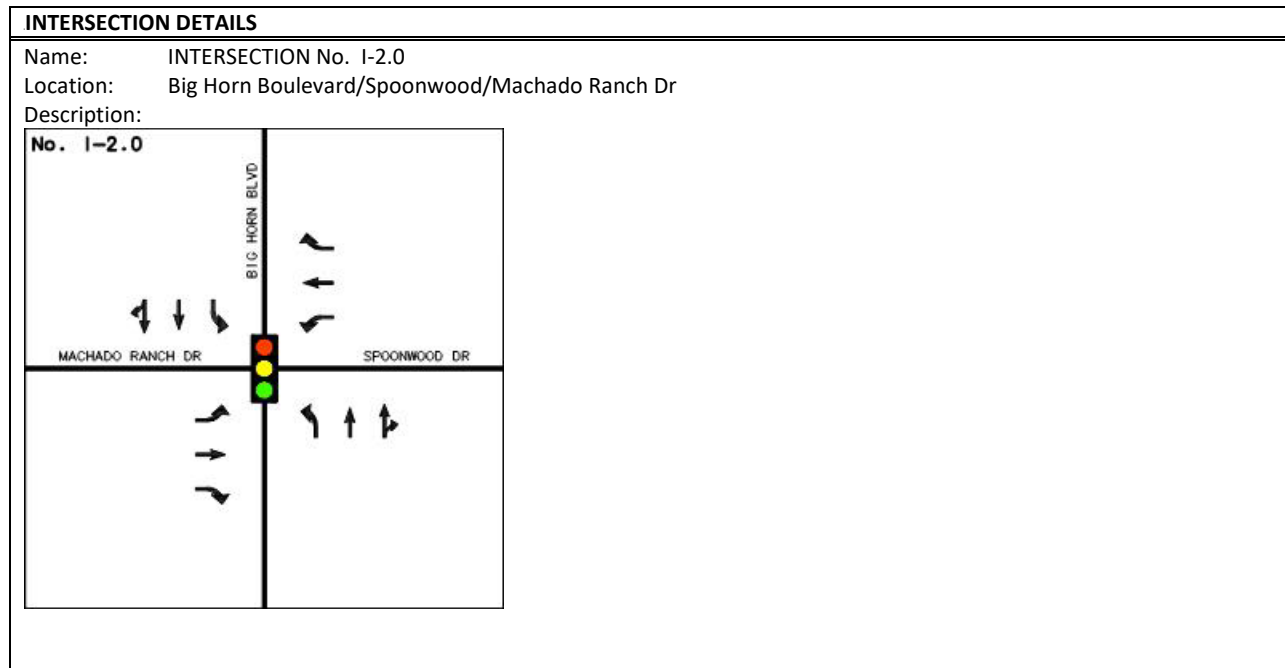
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$559,800.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$240,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$240,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,641,670.00
	CONTINGENCY: 20%	→ \$528,400.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$3,170,070.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$475,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$317,100.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$792,700.00</b>

**TOTAL PROJECT COST \*: \$3,962,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$63,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$63,500.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$95,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$95,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$158,700.00**

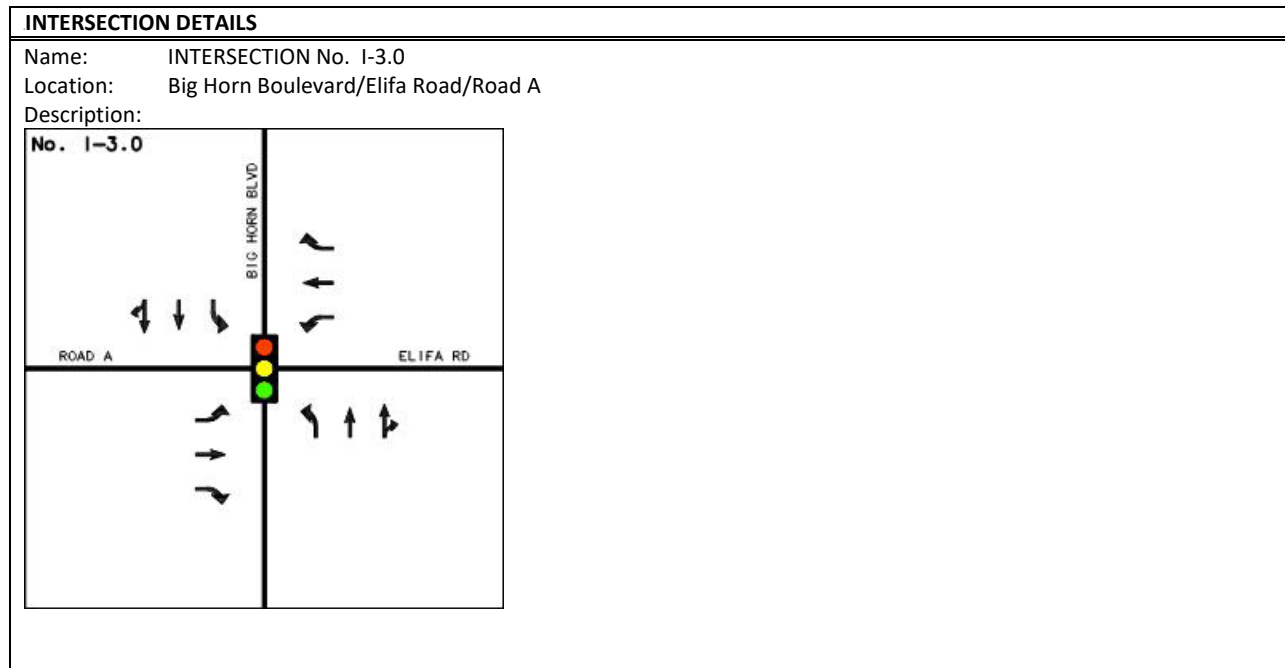
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-3.0					
Location:	Big Horn Boulevard/Elifa Road/Road A					
Description:	Install Traffic Signal 2X4 as a new intersection. All of the legs need to be built out to the full extent from back of walk to back of walk.					
<p>The diagram shows a four-way intersection. Big Horn Blvd runs north-south, Elifa Rd runs east-west, and Road A runs west from the intersection. A traffic signal is located at the center of the intersection. Lane markings include straight, left-turn, and right-turn arrows for all directions. A north arrow is also present.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
East	Elifa Rd			Collector	450	4" HMA on 16" AB
West	Road A			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	8,890	\$266,700.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$266,700.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,593	\$323,370.00
3.2	AGGREGATE BASE	CY	\$60.00	7,270	\$436,200.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,241,970.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



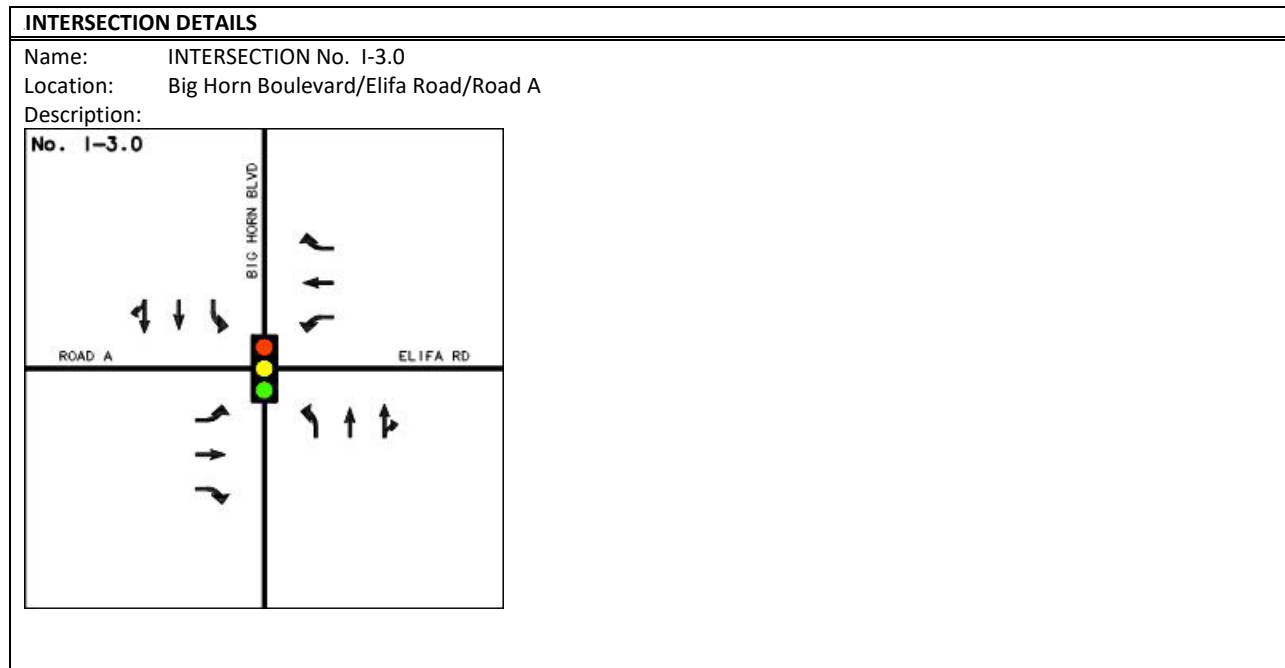
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$559,800.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$240,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$240,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,641,670.00
	CONTINGENCY: 20%	→ \$528,400.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$3,170,070.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$475,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$317,100.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$792,700.00</b>

**TOTAL PROJECT COST \*: \$3,962,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$63,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$63,500.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$95,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$95,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$158,700.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-4.0						
Location: Big Horn Boulevard/Collector 2						
Description: Install Traffic Signal 2X4 as a new intersection. All of the legs need to be built out to the full extent from back of walk to back of walk. Right of way is required on the SB Leg on Big Horn Blvd.						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
East	Collector 2			Collector	450	4" HMA on 16" AB
West	Collector 2			Collector	450	4" HMA on 16" AB

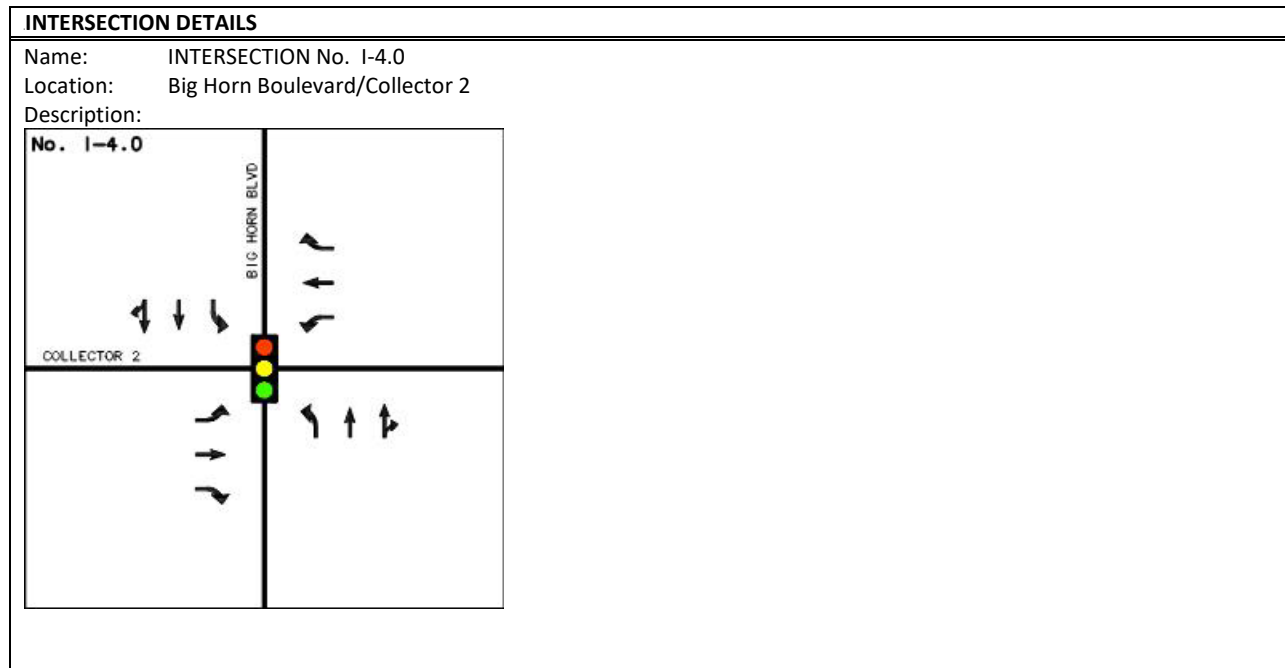
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	8,890	\$266,700.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$266,700.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,593	\$323,370.00
3.2	AGGREGATE BASE	CY	\$60.00	7,270	\$436,200.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,241,970.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



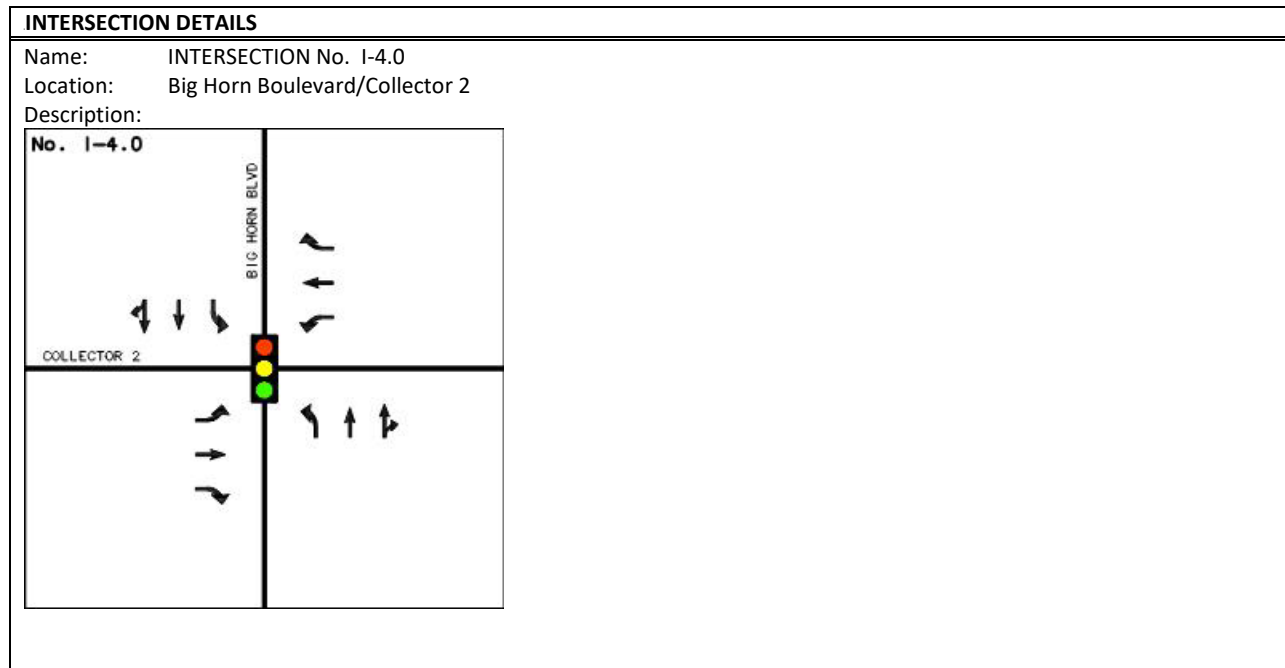
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$559,800.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$240,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$240,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,641,670.00
	CONTINGENCY: 20%	→ \$528,400.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$3,170,070.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$475,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$317,100.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$792,700.00</b>

**TOTAL PROJECT COST \*: \$3,962,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	13,996	\$31,491.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	450	\$18,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$4,950.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$54,441.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$63,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$63,500.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$95,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$95,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$213,141.00**



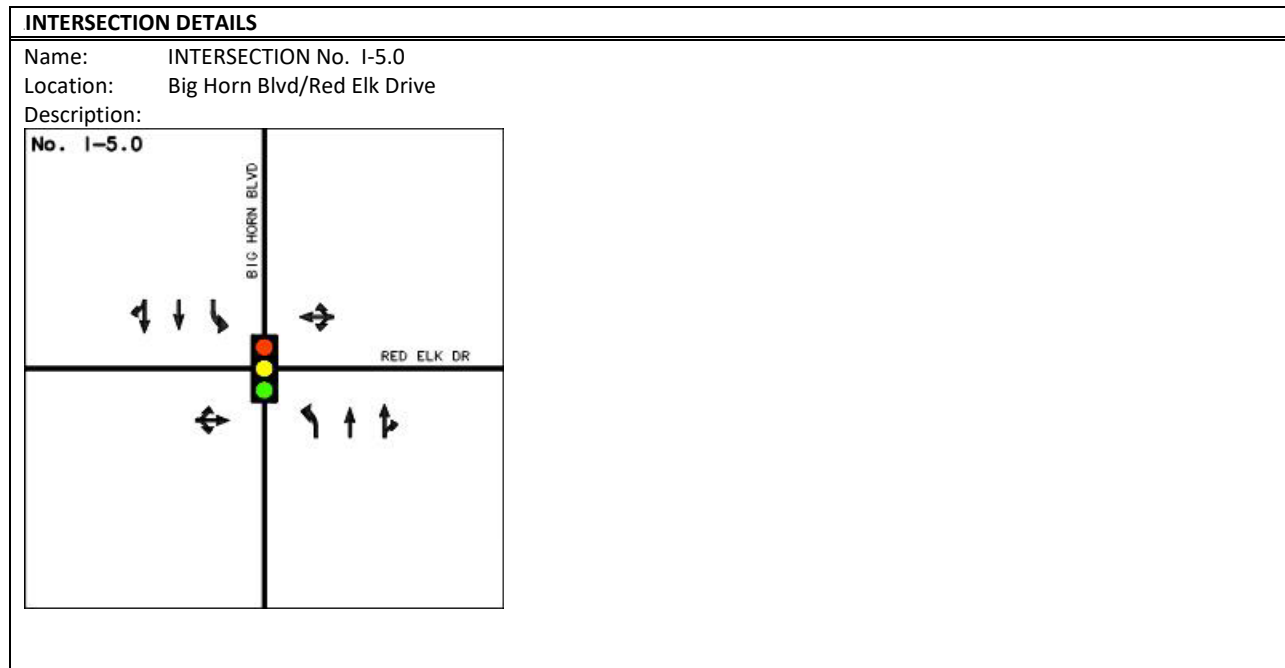
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-5.0						
Location: Big Horn Blvd/Red Elk Drive						
Description: Install Traffic Signal 2X4 on existing intersection. Red Elk Dr is stop controlled residential street and Big Horn Blvd is an uncontrolled street. Fiber optic cable to be replaced to the nearest intersection (Elk Grove Boulevard)						
<p>The diagram shows a T-intersection where Big Horn Blvd (No. I-5.0) meets Red Elk Drive. Big Horn Blvd is a vertical road with traffic flowing north-south. Red Elk Drive is a horizontal road crossing Big Horn Blvd from the east. A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound and southbound on Big Horn Blvd, and eastbound on Red Elk Drive. A traffic signal symbol with red, yellow, and green lights is shown at the intersection.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
East	Red Elk Drive			Residential	450	4" HMA on 13" AB
West	Red Elk Drive			Residential	125	4" HMA on 13" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,450	\$130,500.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$130,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



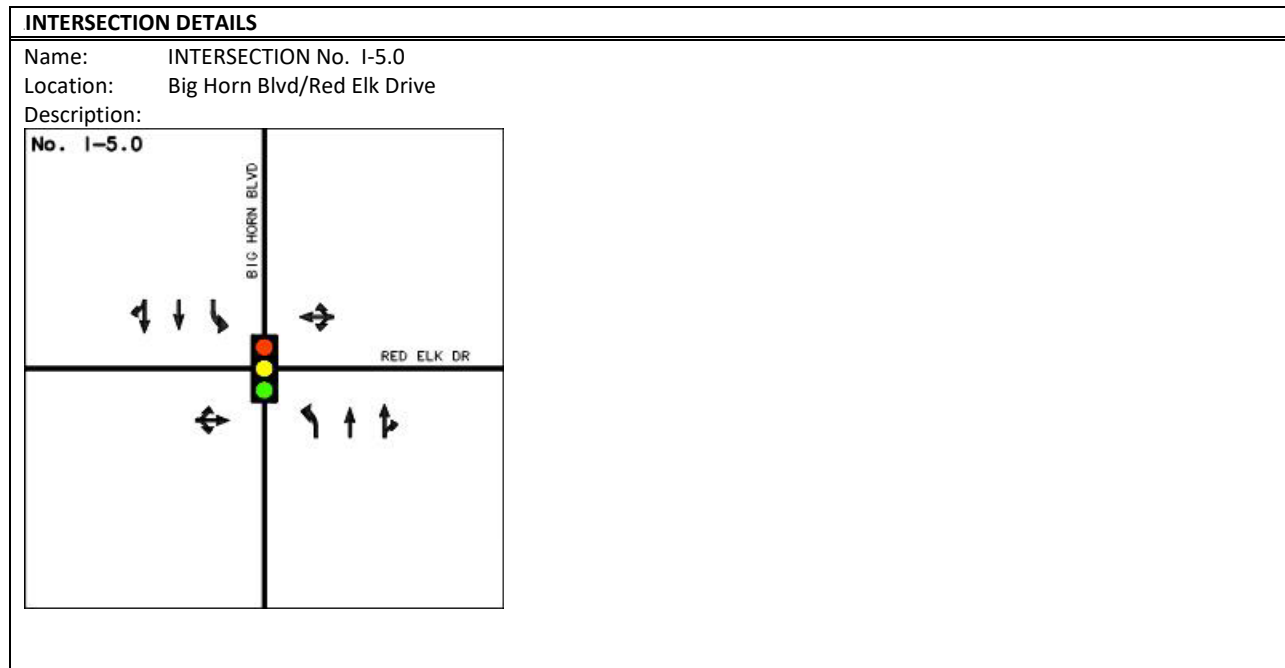
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$371,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$50,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$50,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$551,700.00
	CONTINGENCY: 20% → \$110,400.00
	<b>TOTAL CONSTRUCTION COSTS: \$662,100.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$99,400.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$66,300.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$165,700.00</b>

**TOTAL PROJECT COST \*:** \$827,800.00

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$13,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$13,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$19,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$19,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION):** \$33,200.00

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-6.1						
Location: Bilby Rd/Bruceville Rd						
Description: Modify signal at existing intersection. Bruceville Meadows project, construction of conventional phasing signal from split phasing. Cost includes roadway widening and construction of sidewalk and curb and gutter.						
<p>The diagram shows a T-intersection where Bruceville Rd (vertical) meets Bilby Rd (horizontal). Bruceville Rd has a traffic signal with red, yellow, and green lights. Arrows indicate traffic flow: northbound and southbound on Bruceville Rd, and eastbound and westbound on Bilby Rd. Lane markings include left-turn, through, and right-turn lanes.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Bilby Rd			Minor Arterial	450	5.5" HMA on 21" AB
West	Bilby Rd			Minor Arterial	450	5.5" HMA on 21" AB

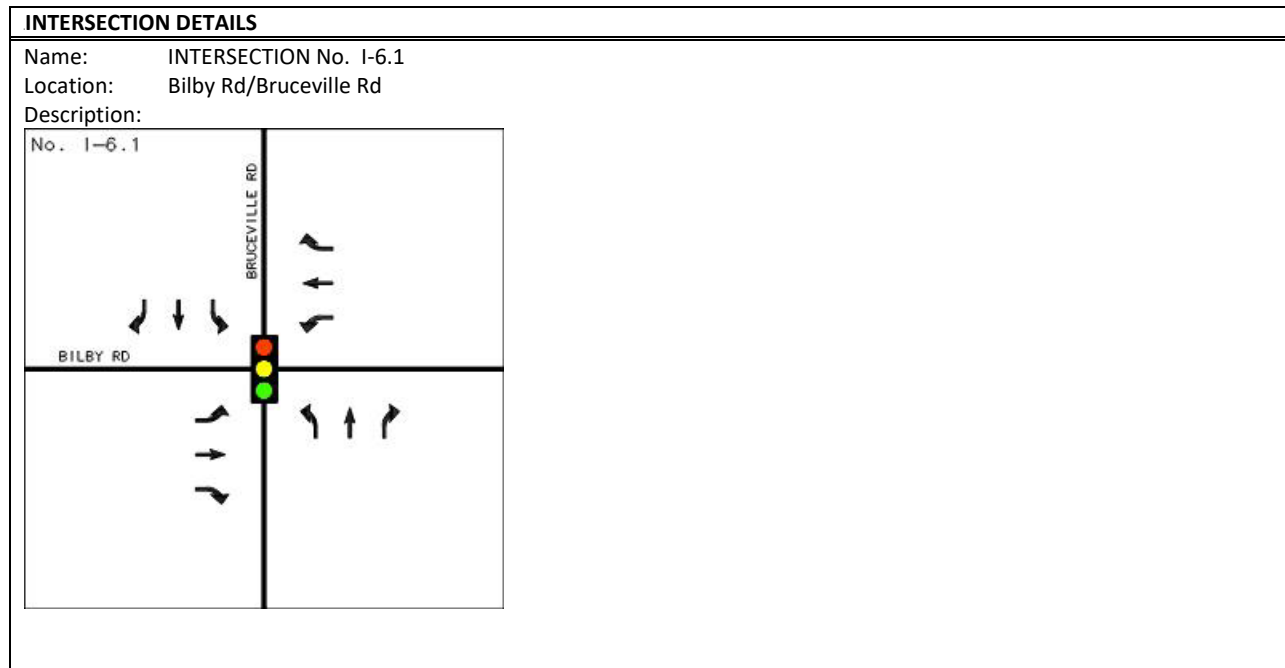
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,360	\$100,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$100,800.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	675	\$124,875.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$124,875.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,310	\$117,900.00
3.2	AGGREGATE BASE	CY	\$60.00	2,620	\$157,200.00
3.3	SIDEWALK	SF	\$12.00	5,600	\$67,200.00
3.4	CURB & GUTTER	LF	\$45.00	700	\$31,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,800	\$30,600.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$404,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	2,000	\$112,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$551,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$118,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$118,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,299,675.00
	CONTINGENCY: 20%	→ \$260,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,559,675.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-6.1
Location:	Bilby Rd/Bruceville Rd
Description:	No. I-6.1

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$234,000.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$156,000.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$390,000.00</b>

**TOTAL PROJECT COST \*: \$1,949,700.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$156,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$156,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$46,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$46,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$202,800.00**

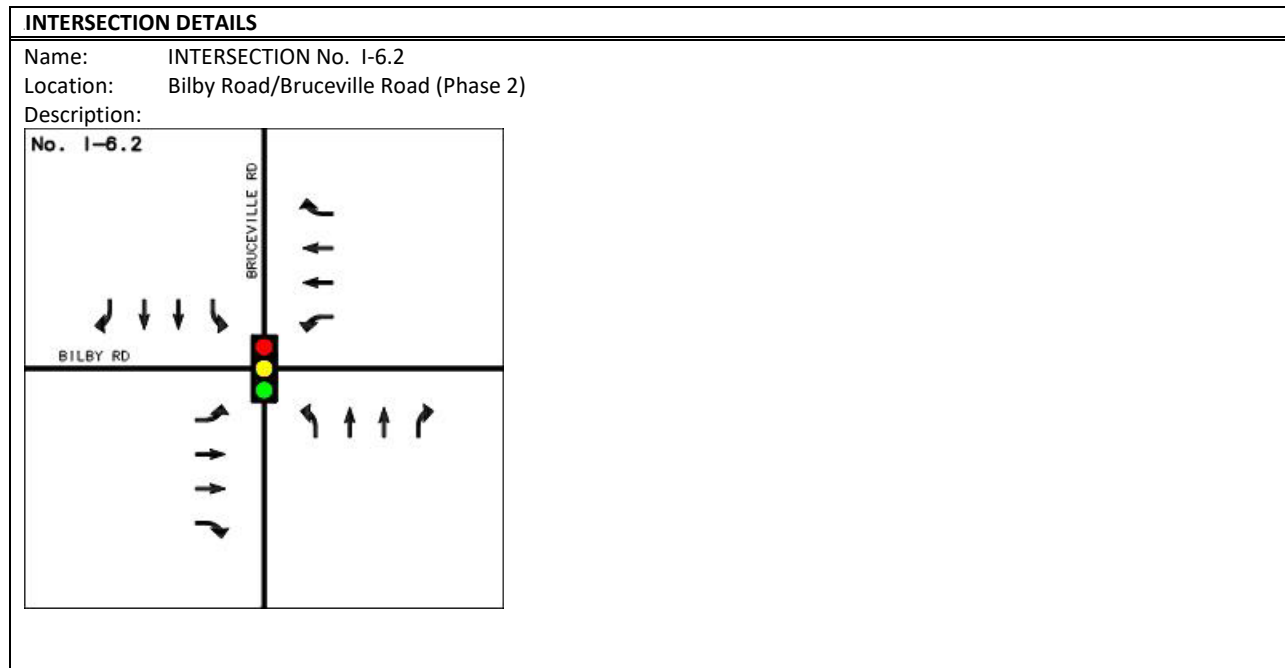
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-6.2					
Location:	Bilby Road/Bruceville Road (Phase 2)					
Description:	Widen existing signalized intersection to 4x4. Utility relocation includes relocating existing 69KV on west side of road.					
<p>The diagram shows a four-way signalized intersection. Bruceville Rd runs north-south, and Bilby Rd runs east-west. A traffic signal is located at the center of the intersection. Arrows indicate traffic flow: northbound and southbound on Bruceville Rd, and eastbound and westbound on Bilby Rd. The intersection is labeled 'No. I-6.2'.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Bilby Rd			Minor Arterial	450	5.5" HMA on 21" AB
West	Bilby Rd			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,700	\$171,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$171,000.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	675	\$124,875.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$124,875.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,210	\$288,900.00
3.2	AGGREGATE BASE	CY	\$60.00	4,580	\$274,800.00
3.3	SIDEWALK	SF	\$12.00	13,500	\$162,000.00
3.4	CURB & GUTTER	LF	\$45.00	2,250	\$101,250.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$826,950.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$250,000.00</b>

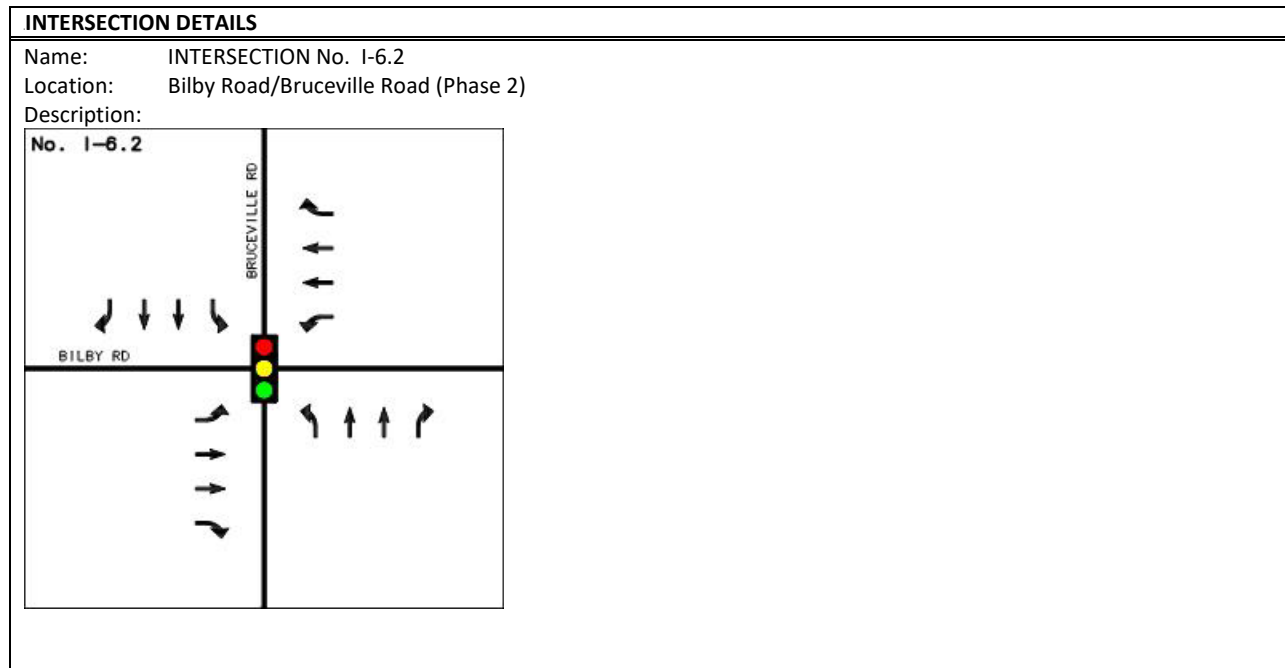
<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$137,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$137,300.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,510,125.00
	CONTINGENCY: 20%	→ \$302,100.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,812,225.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$271,900.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$181,300.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$453,200.00</b>

**TOTAL PROJECT COST \*: \$2,265,500.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	20%	CON. COST	\$362,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$362,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$54,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$54,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$416,900.00**

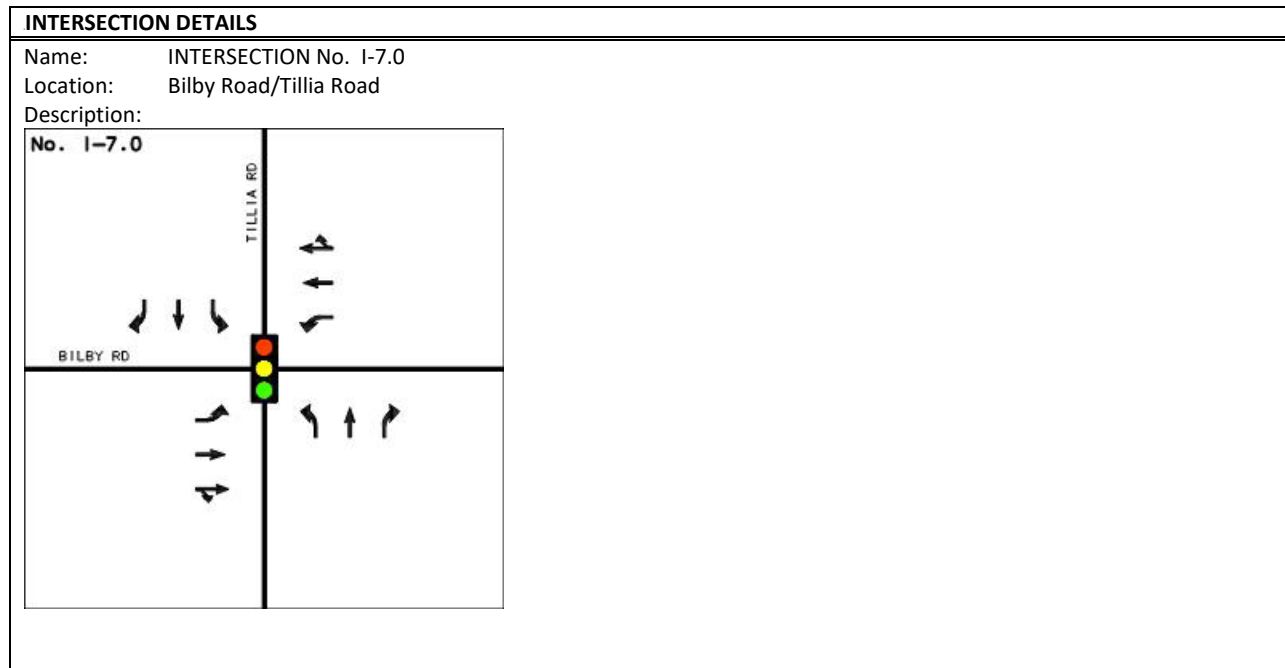
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-7.0						
Location: Bilby Road/Tillia Road						
Description: Install Traffic Signal 2X4 as a new intersection. Bilby Road needs to be fully built from back of walk to back of walk while Tillia Road will only be partially built.						
<p>The diagram shows a T-intersection where Bilby Rd crosses the end of Tillia Rd. Tillia Rd is a two-lane road with a center line and arrows pointing in both directions. Bilby Rd is a two-lane road with arrows pointing east and west. A traffic signal is located at the intersection, with a red light for the north-south direction and a green light for the east-west direction. The text 'No. I-7.0' is in the top left corner of the diagram area.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Tillia Road			Collector	100	4" HMA on 16" AB
South	Tillia Road			Collector	100	4" HMA on 16" AB
East	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB
West	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,560	\$196,800.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$196,800.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,100	\$203,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$203,500.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,728	\$245,520.00
3.2	AGGREGATE BASE	CY	\$60.00	5,380	\$322,800.00
3.3	SIDEWALK	SF	\$12.00	13,200	\$158,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,200	\$99,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,200	\$37,400.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$863,120.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



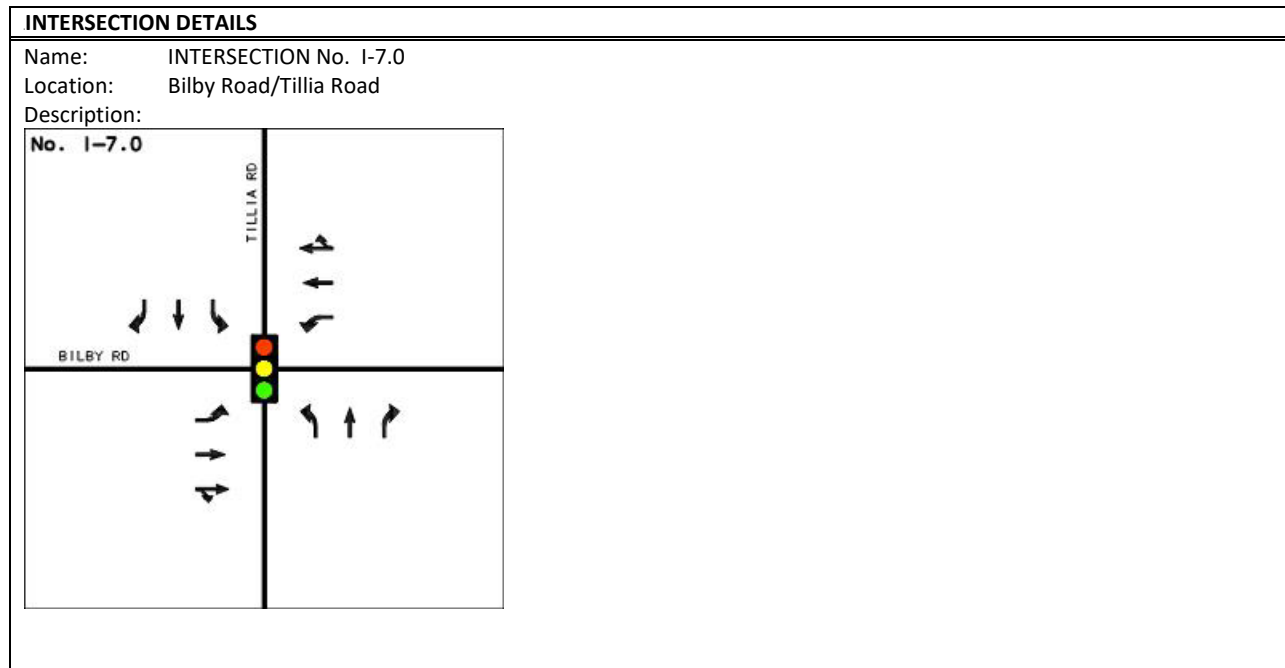
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$485,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$174,900.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$174,900.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,923,720.00
	CONTINGENCY: 20%	→ \$384,800.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,308,520.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$346,300.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$230,900.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$577,200.00</b>

**TOTAL PROJECT COST \*: \$2,885,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$46,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$46,200.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$69,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$69,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$115,500.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-8.0					
Location:	Bilby Road/Big Horn					
Description:	Install Traffic Signal 4X4 as a new intersection. The intersection is partly constructed on three legs, but only the center lanes. This covers the fourth leg and the widening and frontage for the other three legs from back of walk to back of walk.					
<p>The diagram shows a four-way intersection. Big Horn Blvd runs north-south, with a traffic signal at the center. Bilby Rd runs east-west, crossing Big Horn Blvd. Mc Millan Rd runs north-south, crossing Bilby Rd. Arrows indicate traffic flow: northbound and southbound on Big Horn Blvd, eastbound and westbound on Bilby Rd, and northbound and southbound on Mc Millan Rd. A traffic signal is shown at the intersection of Big Horn Blvd and Bilby Rd.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
East	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB
West	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB

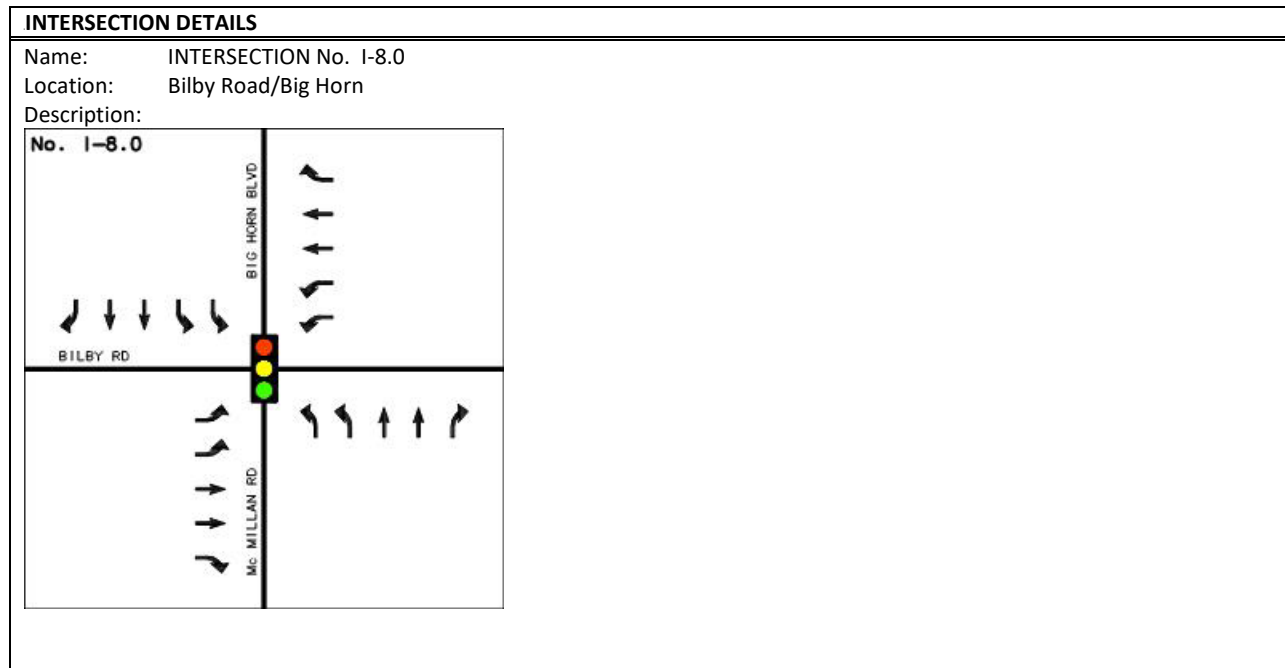
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	7,900	\$237,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$237,000.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,074	\$276,660.00
3.2	AGGREGATE BASE	CY	\$60.00	6,210	\$372,600.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,131,660.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



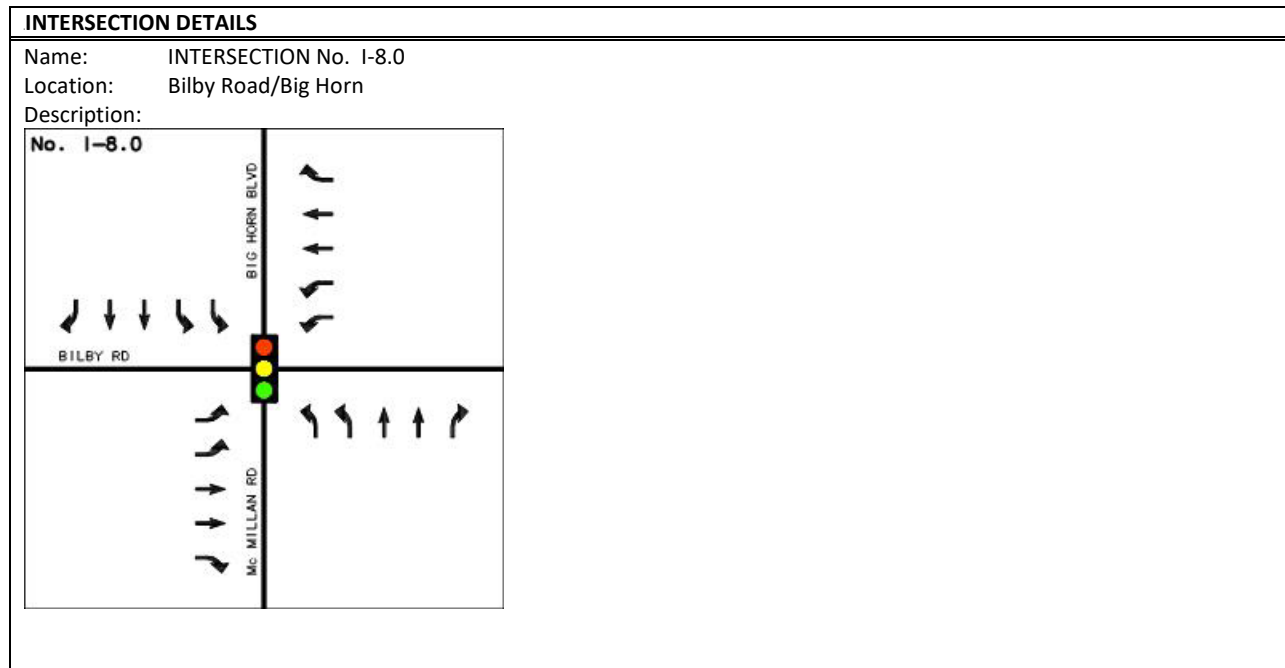
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00		\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$438,800.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$214,100.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$214,100.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,354,560.00
	CONTINGENCY: 20%	→ \$471,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,825,560.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$423,900.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$282,600.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$706,500.00</b>

**TOTAL PROJECT COST \*: \$3,532,100.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$56,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$56,600.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$84,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$84,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$141,400.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-9.0					
Location:	Bilby Road/Road B (West)					
Description:	Install Traffic Signal 2X4 as a new intersection. The intersection is partly constructed on three legs. The North leg has 100' stub, the South leg will not be built, the East leg is covered as part of another estimate in B-8, and the West leg is 150'.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Road B (West)			Collector	100	4" HMA on 16" AB
South	-			Collector	40	4" HMA on 16" AB
East	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB
West	Bilby Road			Minor Arterial	150	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

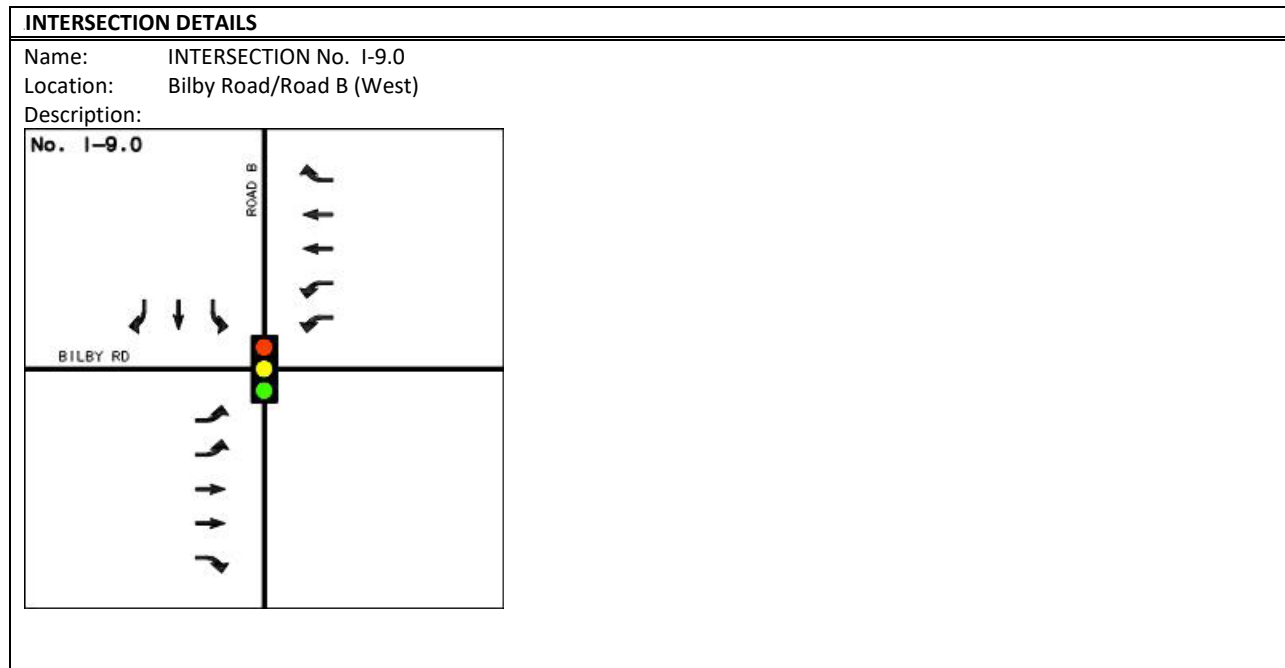
<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,530	\$195,900.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$195,900.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,799	\$251,910.00
3.2	AGGREGATE BASE	CY	\$60.00	5,360	\$321,600.00
3.3	SIDEWALK	SF	\$12.00	3,000	\$36,000.00
3.4	CURB & GUTTER	LF	\$45.00	1,400	\$63,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,400	\$23,800.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$696,310.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



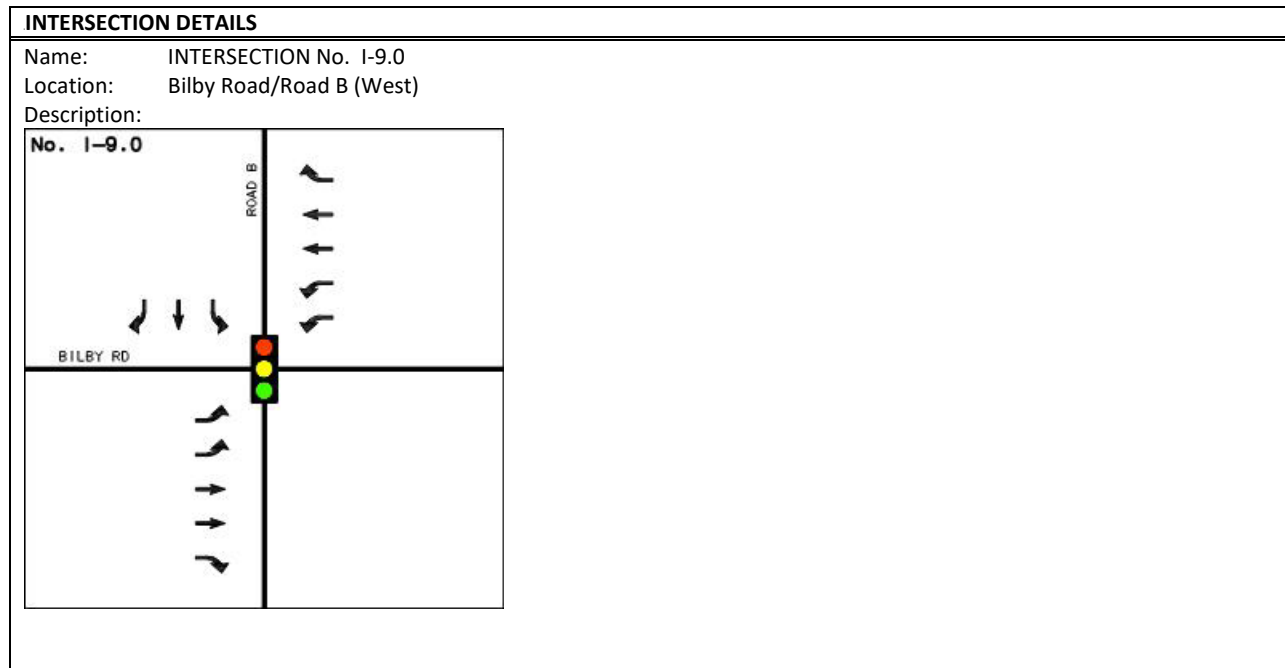
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	6	\$60,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$389,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$161,500.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$161,500.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,776,110.00
	CONTINGENCY: 20%	→ \$355,300.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,131,410.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$319,800.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$213,200.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$533,000.00</b>

**TOTAL PROJECT COST \*: \$2,664,500.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$42,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$42,700.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$64,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$64,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$106,700.00**

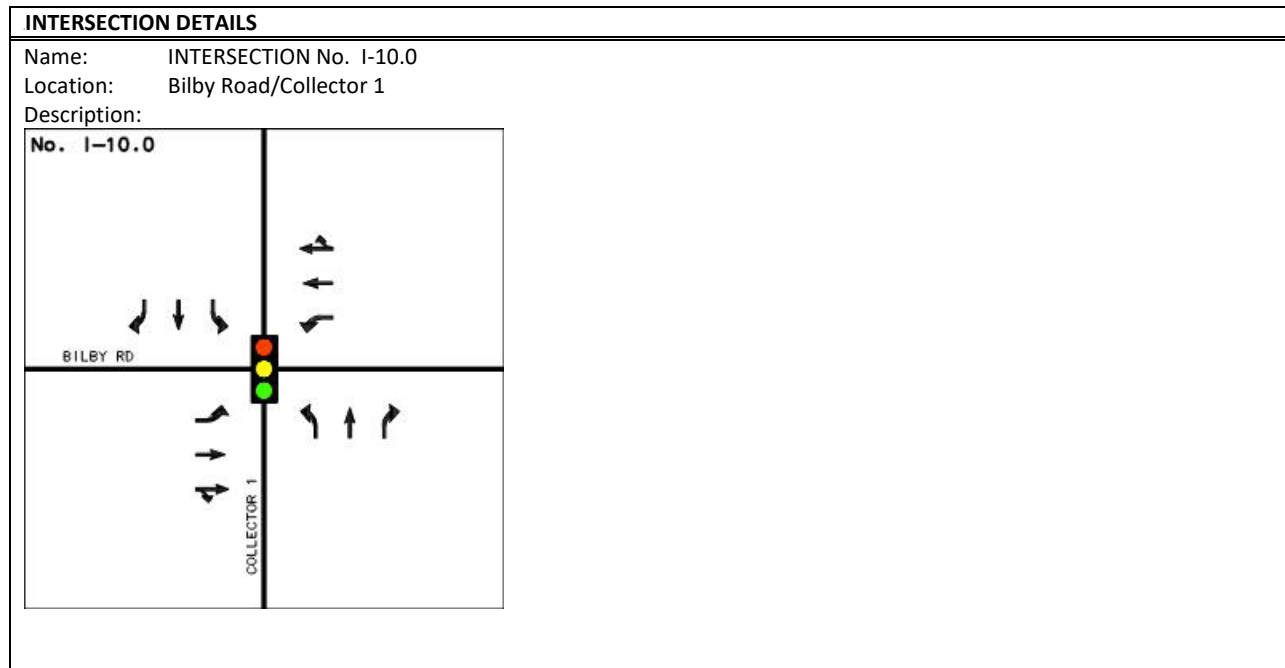
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-10.0					
Location:	Bilby Road/Collector 1					
Description:	Install Traffic Signal 2X4 as a new intersection. The South, East, and West legs need to be fully built from back of walk to back of walk while the North leg is a driveway.					
<p>The diagram shows a four-way intersection. A vertical road labeled 'COLLECTOR 1' runs north-south, and a horizontal road labeled 'BILBY RD' runs east-west. A traffic signal is located at the center of the intersection. Lane markings include left-turn, through, and right-turn lanes on all four sides. A northbound driveway is shown on the north side of Collector 1.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Driveway			Collector	0	4" HMA on 16" AB
South	Collector 1			Collector	450	4" HMA on 16" AB
East	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB
West	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	7,230	\$216,900.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$216,900.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,971	\$267,390.00
3.2	AGGREGATE BASE	CY	\$60.00	5,930	\$355,800.00
3.3	SIDEWALK	SF	\$12.00	18,900	\$226,800.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,700	\$45,900.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,017,390.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



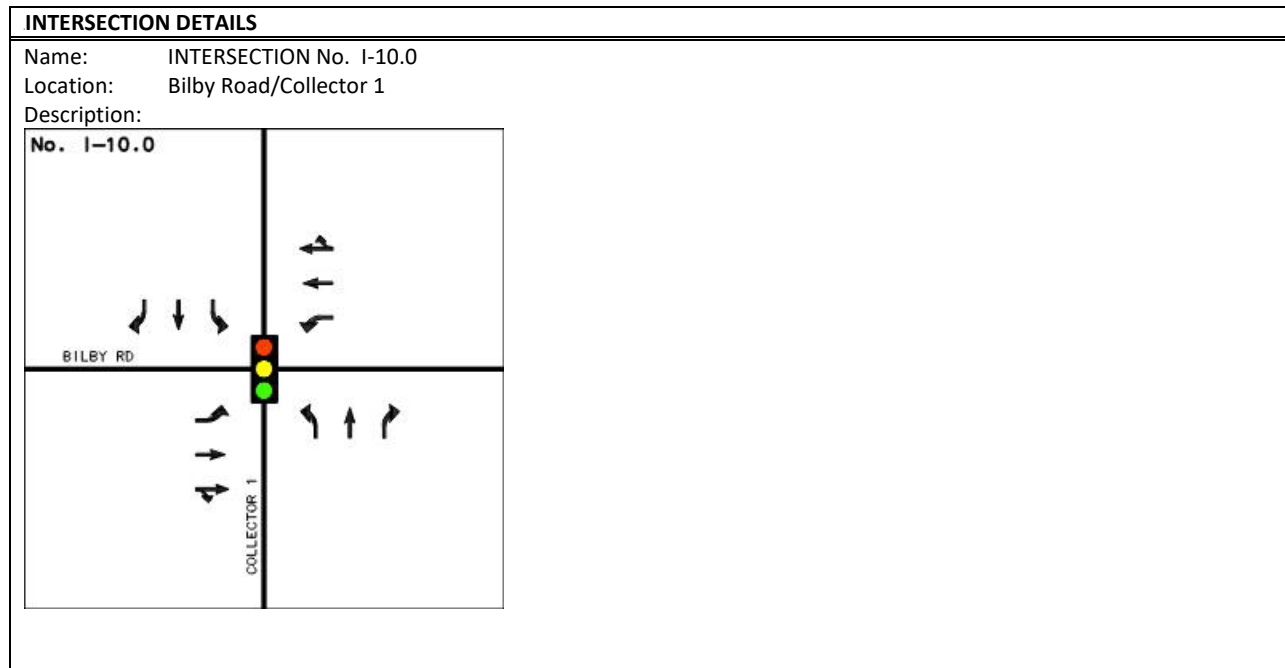
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$505,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$199,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$199,000.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,188,440.00
	CONTINGENCY: 20%	→ \$437,700.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,626,140.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$394,000.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$262,700.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$656,700.00</b>

**TOTAL PROJECT COST \*: \$3,282,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$52,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$52,600.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$78,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$78,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$131,400.00**

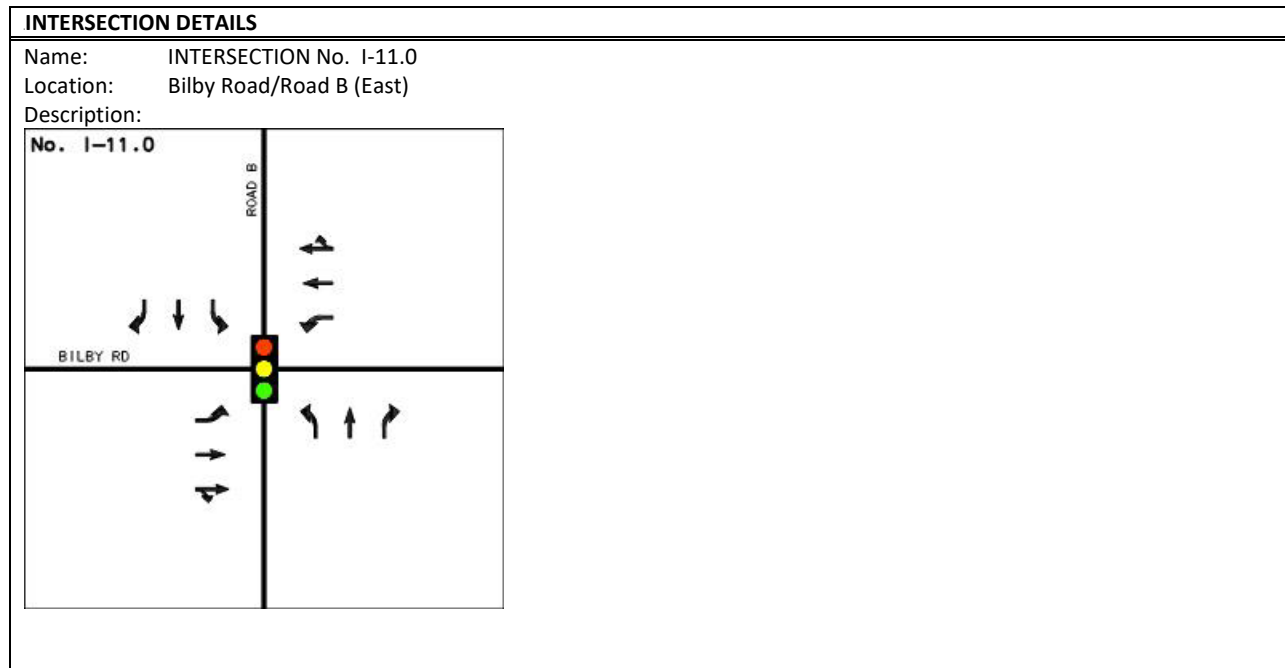
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-11.0					
Location:	Bilby Road/Road B (East)					
Description:	Install Traffic Signal 2X4 as a new intersection. The North, South, and East legs need to be fully built from back of walk to back of walk while the North leg is a driveway.					
<p>The diagram shows a T-intersection where Road B (vertical) meets Bilby Rd (horizontal). Road B has a traffic signal with red, yellow, and green lights. Lane markings include left, through, and right turns for all directions. The intersection is labeled 'No. I-11.0'.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Road B			Collector	0	4" HMA on 16" AB
South	Driveway			Collector	450	4" HMA on 16" AB
East	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB
West	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	7,230	\$216,900.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$216,900.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,971	\$267,390.00
3.2	AGGREGATE BASE	CY	\$60.00	5,930	\$355,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,700	\$45,900.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$790,590.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



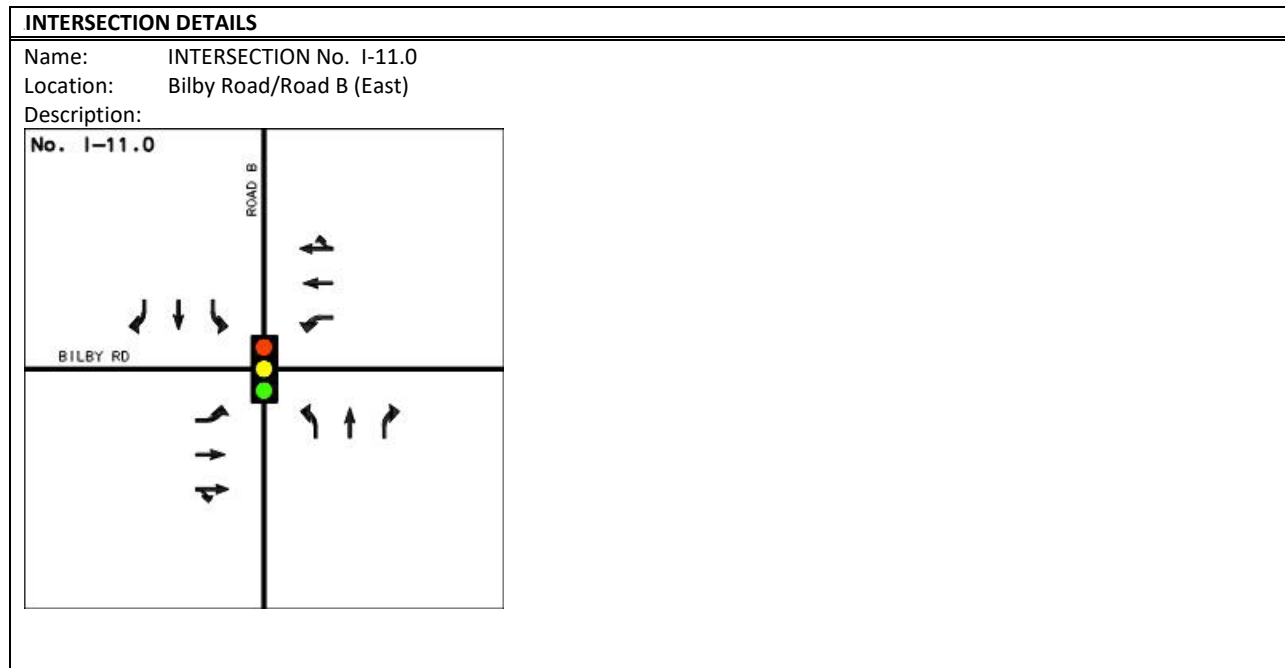
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$505,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$176,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$176,300.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,938,940.00
	CONTINGENCY: 20%	→ \$387,800.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,326,740.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$349,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$232,700.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$581,800.00</b>

**TOTAL PROJECT COST \*: \$2,908,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$46,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$46,600.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$69,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$69,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$116,500.00**



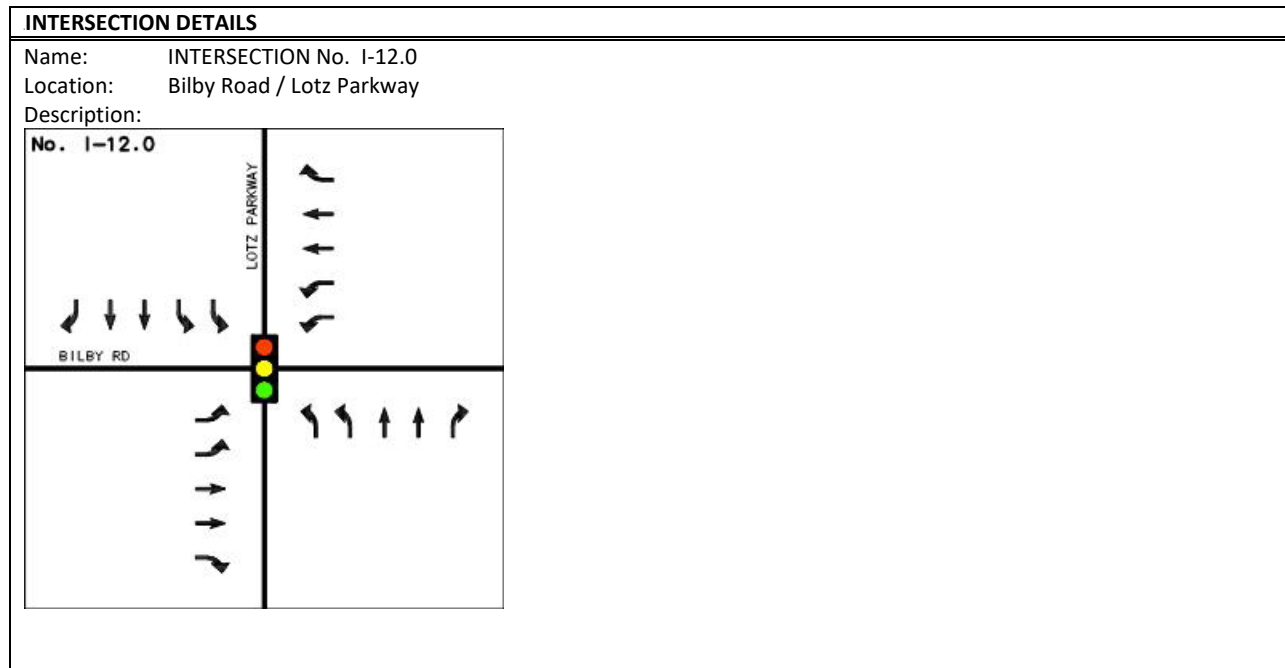
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-12.0					
Location:	Bilby Road / Lotz Parkway					
Description:	Install Traffic Signal 4X4 as a new intersection. All of the legs need to be built out to the full extent from back of walk to back of walk.					
<p>The diagram shows a four-way intersection labeled 'No. I-12.0'. Lotz Parkway runs vertically, and Bilby Rd runs horizontally. A traffic signal is located at the center of the intersection. Lane markings include left-turn arrows, through arrows, and right-turn arrows for all four directions. A north arrow is shown in the top right corner.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
South	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
East	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB
West	Bilby Road			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	14,100	\$423,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$423,000.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	6,083	\$547,470.00
3.2	AGGREGATE BASE	CY	\$60.00	11,700	\$702,000.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,731,870.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



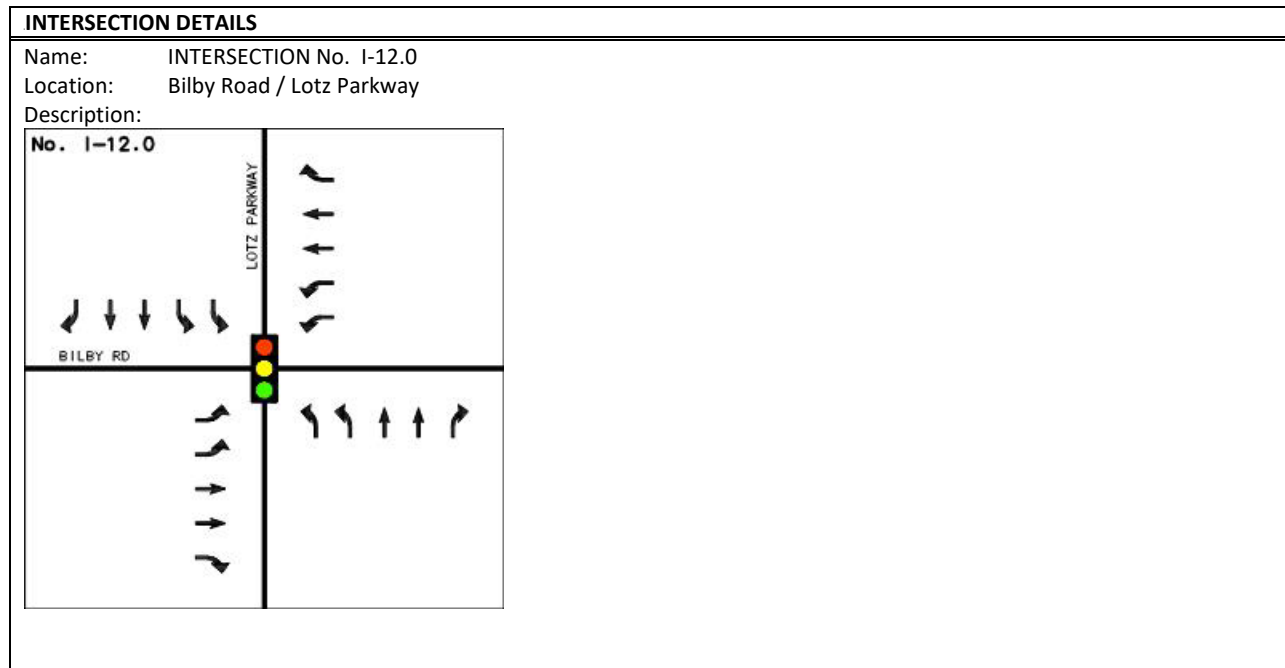
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	2,000	\$112,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$615,800.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$310,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$310,400.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$3,414,070.00
	CONTINGENCY: 20%	→ \$682,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$4,096,970.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$614,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$409,700.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,024,300.00</b>

**TOTAL PROJECT COST \*: \$5,121,300.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$82,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$82,000.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$123,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$123,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$205,000.00**

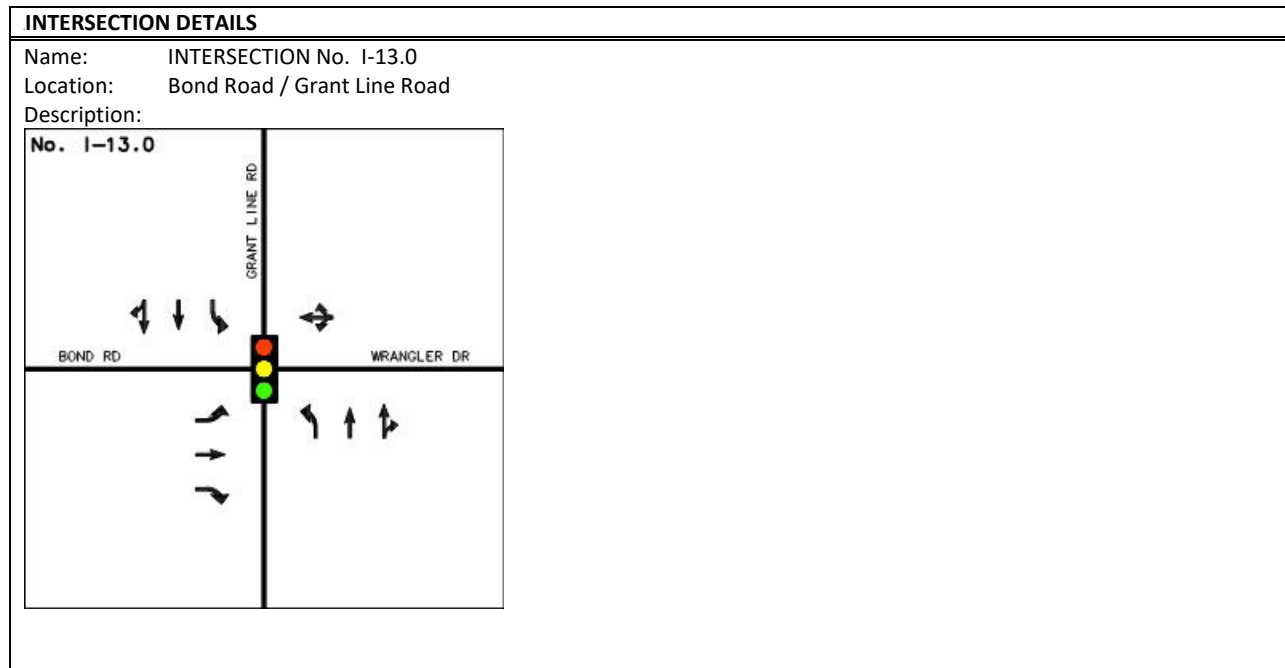
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-13.0						
Location: Bond Road / Grant Line Road						
Description: Modify traffic signal for a widened 2x4 intersection. North leg has 1 left 1 through lane, and 1 right turn pocket. South leg has 1 left turn lane and 1 through/right turn lane. Bond Rd and Wrangler Dr is a two lane road.						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Wrangler Dr			Collector	450	4" HMA on 16" AB
West	Bond Rd			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,900	\$87,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$87,000.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,020	\$181,800.00
3.2	AGGREGATE BASE	CY	\$60.00	2,330	\$139,800.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$804,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



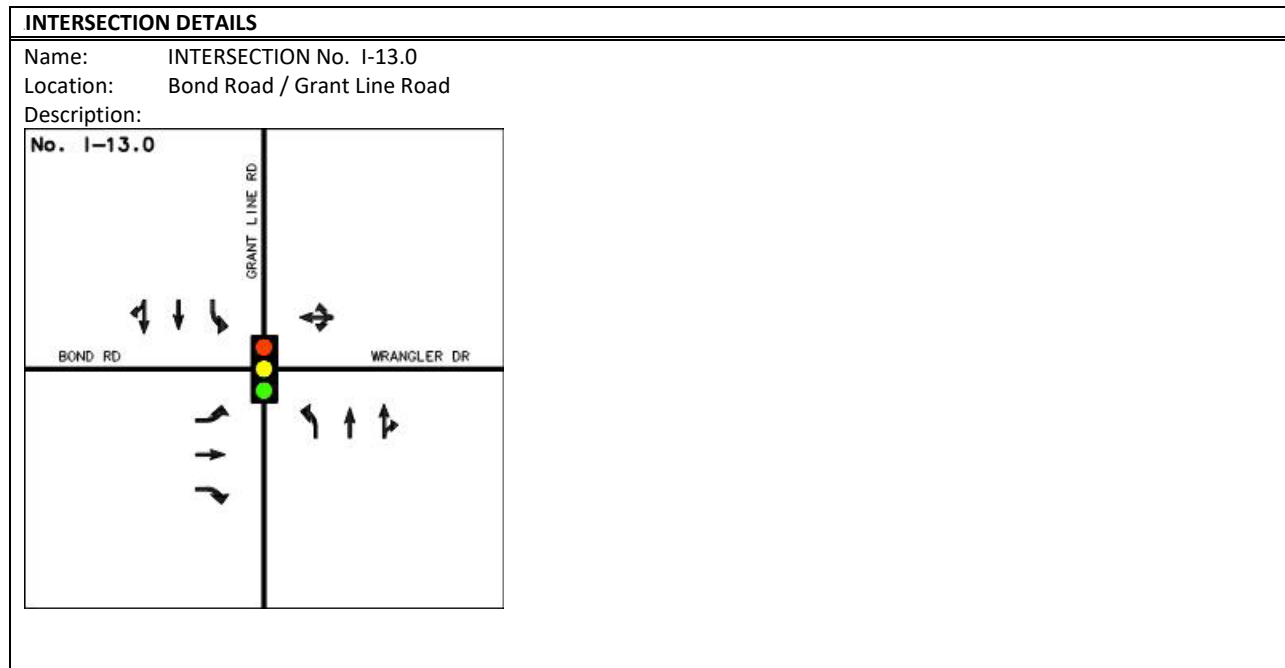
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$495,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$172,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$172,000.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,891,400.00
	CONTINGENCY: 20%	→ \$378,300.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,269,700.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$340,500.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$227,000.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$567,500.00</b>

**TOTAL PROJECT COST \*: \$2,837,200.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	15,270	\$34,400.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,228	\$49,120.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$8,360.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$91,880.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$227,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$227,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$68,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$68,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$387,000.00**

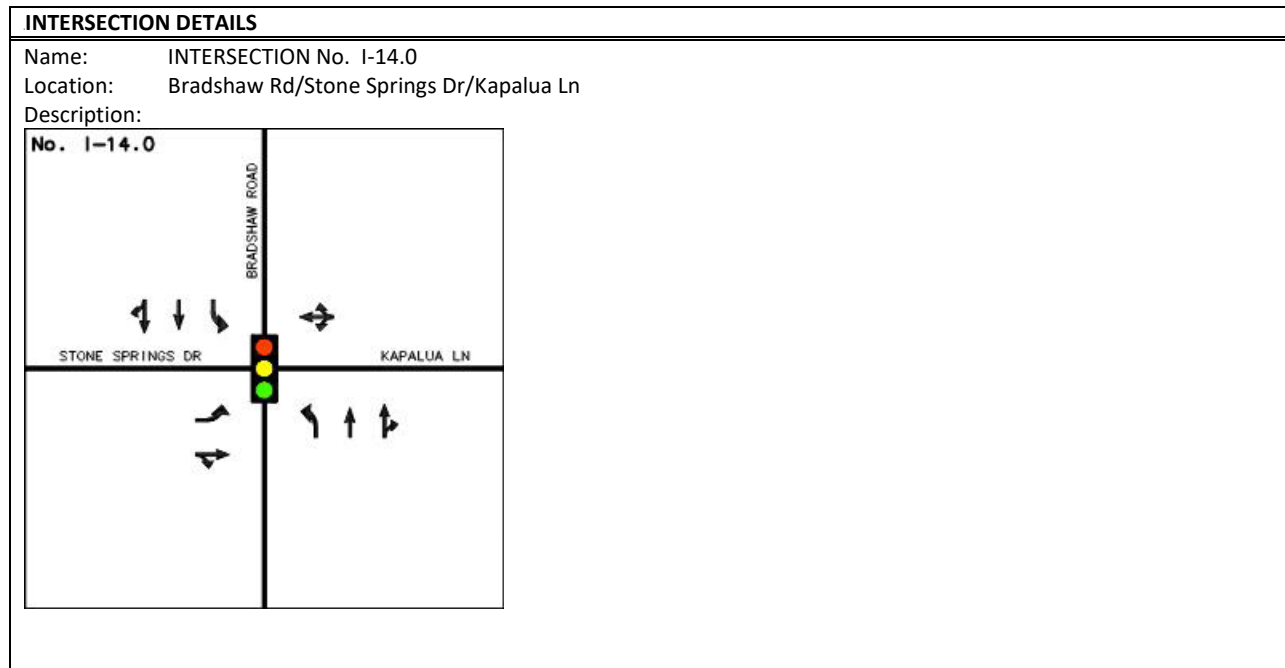
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-14.0					
Location:	Bradshaw Rd/Stone Springs Dr/Kapalua Ln					
Description:	Install Traffic Signal 2x4 as a widening intersection. Stone Springs Dr and Kapalua Ln are residential areas but Kapalua Ln is a gated residential community with existing median landscaping. North leg to be widened to 450 ft.					
<p>The diagram shows a T-intersection where Bradshaw Road (vertical) meets Stone Springs Dr (horizontal) and Kapalua Ln (horizontal). Bradshaw Road has a traffic signal with red, yellow, and green lights. Stone Springs Dr has a left-turn lane, a through lane, and a right-turn lane. Kapalua Ln has a left-turn lane, a through lane, and a right-turn lane. The north leg of Bradshaw Road is to be widened to 450 ft.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bradshaw Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Bradshaw Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Kapalua Ln			Collector	450	4" HMA on 16" AB
West	Stone Springs Dr			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,090	\$62,700.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$62,700.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,930	\$173,700.00
3.2	AGGREGATE BASE	CY	\$60.00	1,720	\$103,200.00
3.3	SIDEWALK	SF	\$12.00	12,600	\$151,200.00
3.4	CURB & GUTTER	LF	\$45.00	2,100	\$94,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$522,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$481,000.00</b>

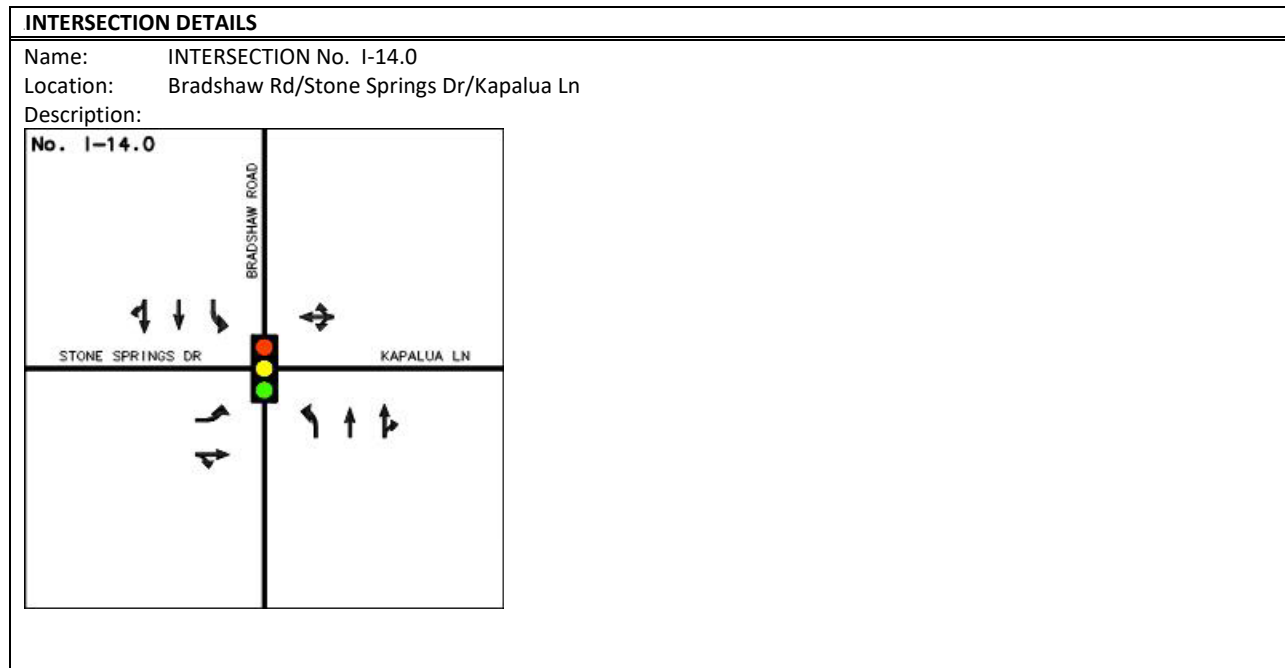
5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$131,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$131,700.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,447,750.00
	CONTINGENCY: 20%	→ \$289,600.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,737,350.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$260,700.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$173,800.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$434,500.00</b>

**TOTAL PROJECT COST \*: \$2,171,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	22,181	\$205,200.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	900	\$108,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$31,320.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$344,520.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$173,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$173,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$52,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$52,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$570,600.00**

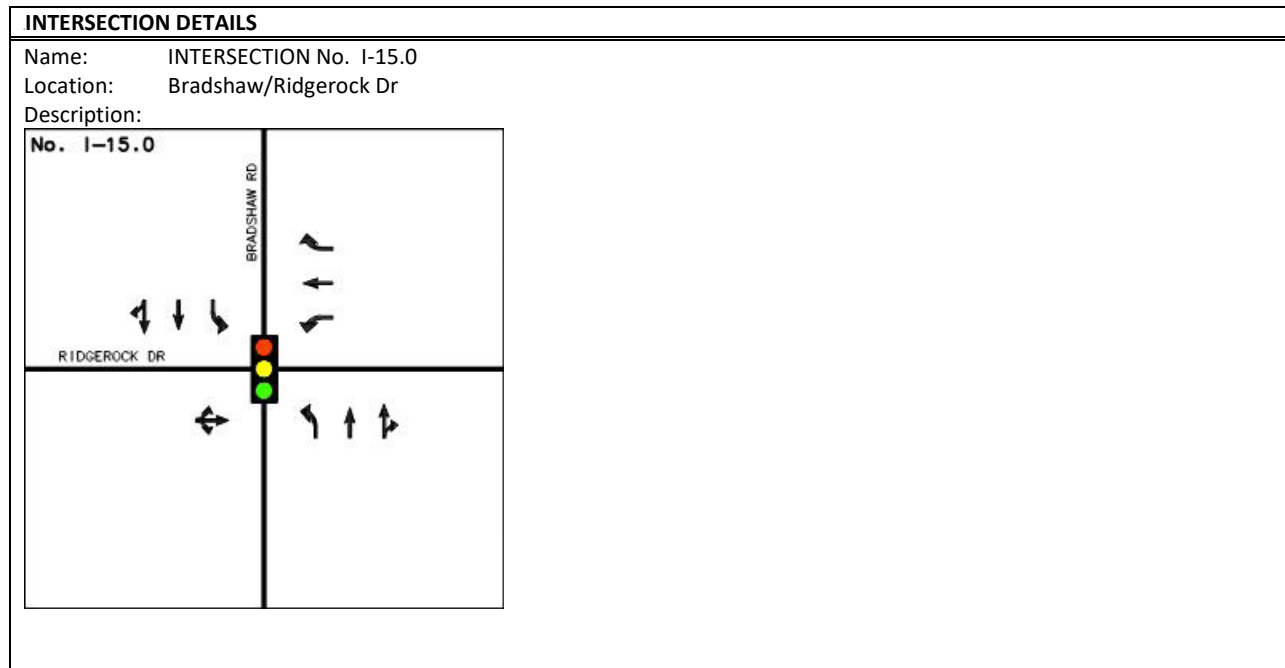
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-15.0					
Location:	Bradshaw/Ridgerock Dr					
Description:	Install Traffic Signal for a widened 2x4 intersection. Ridgerock Dr is a residential street with existing median landscaping that will have a single lane with shared movement while the East leg has not been developed.					
<p>The diagram shows a T-intersection where Bradshaw Rd (vertical) meets Ridgerock Dr (horizontal). Bradshaw Rd has a traffic signal with red, yellow, and green lights. Lane markings include arrows for through, left-turn, and right-turn movements on both roads. The intersection is labeled 'No. I-15.0'.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bradshaw Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Bradshaw Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	-			Residential	0	4" HMA on 13" AB
West	Ridgerock Dr			Residential	150	4" HMA on 13" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,870	\$86,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$86,100.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,050	\$194,250.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$194,250.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,700	\$153,000.00
3.2	AGGREGATE BASE	CY	\$60.00	2,220	\$133,200.00
3.3	SIDEWALK	SF	\$12.00	7,200	\$86,400.00
3.4	CURB & GUTTER	LF	\$45.00	1,200	\$54,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,100	\$35,700.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$462,300.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



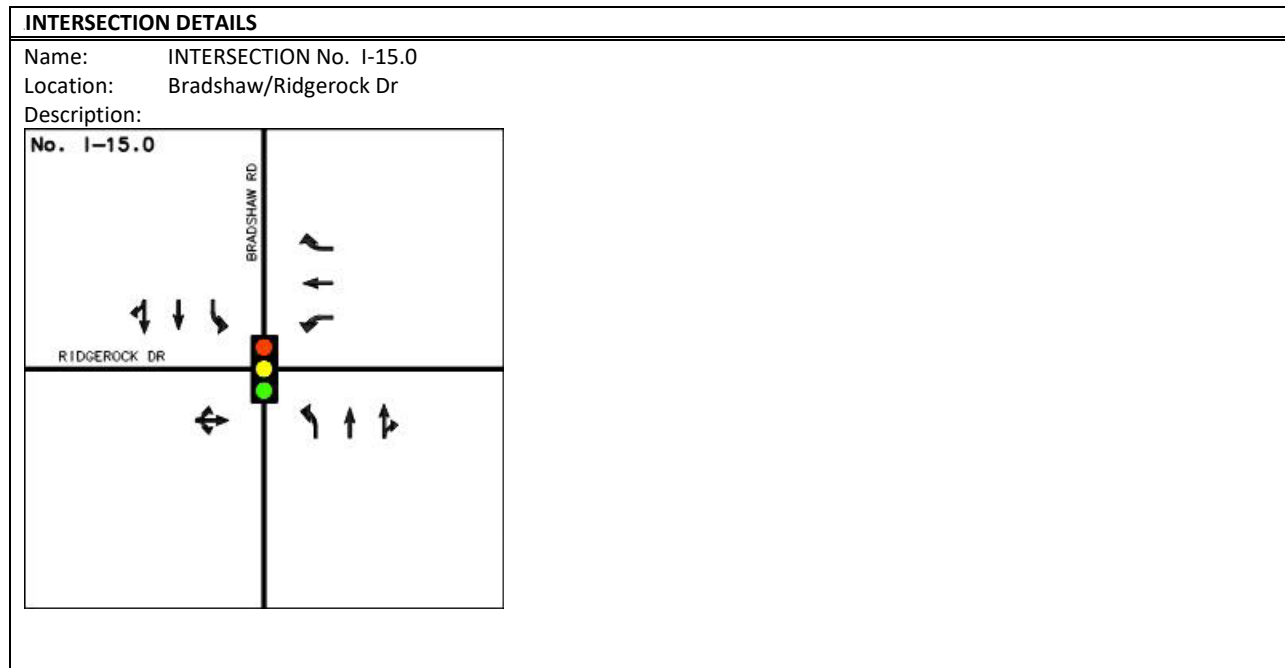
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	9	\$90,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$475,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$121,900.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$121,900.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$1,339,950.00
	CONTINGENCY: 20% → \$268,000.00
	<b>TOTAL CONSTRUCTION COSTS: \$1,607,950.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$241,200.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$160,800.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$402,000.00</b>

**TOTAL PROJECT COST \*: \$2,010,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$32,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$32,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$48,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$48,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$80,500.00**

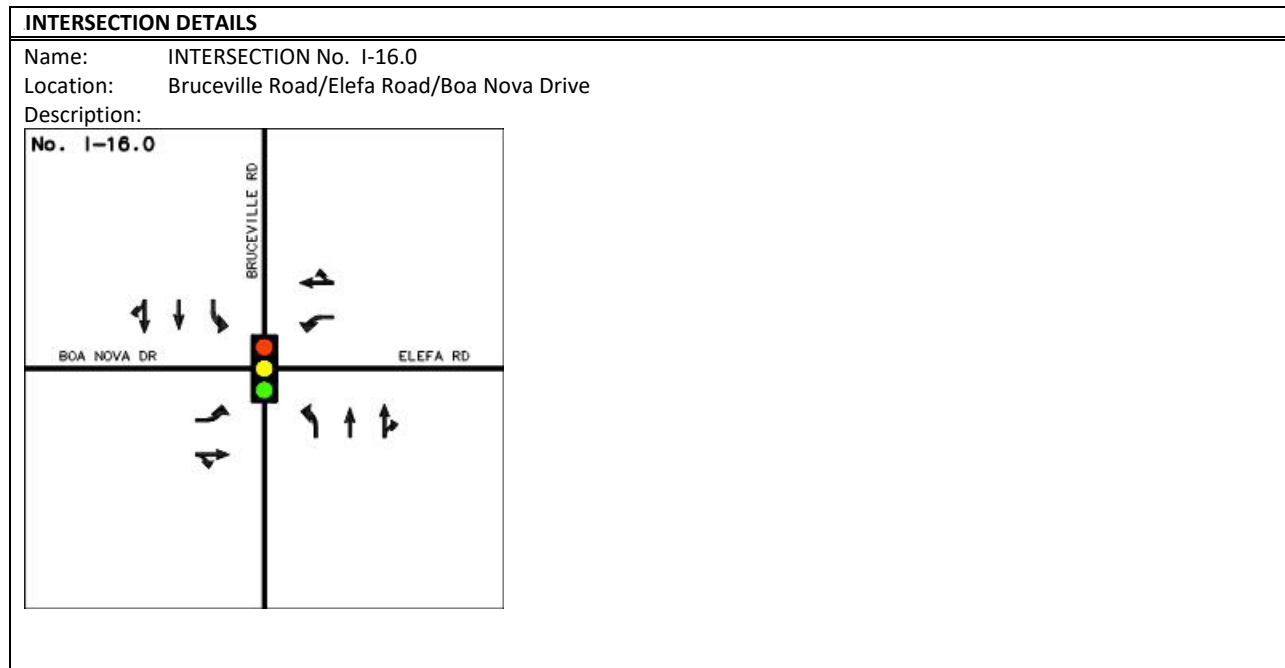
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-16.0						
Location: Bruceville Road/Elefa Road/Boa Nova Drive						
Description: Install Traffic Signal for a widened 2x4 intersection. Boa Nova Dr will only require striping and video detection. The East leg has not been developed and Bruceville Rd will have a 36' median.						
<p>The diagram shows a 2x4 intersection. Bruceville Rd runs north-south, Elefa Rd runs east-west, and Boa Nova Dr runs west from Elefa Rd. A traffic signal is located at the intersection. Lane markings include straight, left, and right turns for all directions. A 36-foot median is shown on the east side of Bruceville Rd.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Elefa Ave			Residential	100	4" HMA on 16" AB
West	Boa Nova Dr			Residential	100	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,200	\$126,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$126,000.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,000	\$185,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$185,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,980	\$178,200.00
3.2	AGGREGATE BASE	CY	\$60.00	3,150	\$189,000.00
3.3	SIDEWALK	SF	\$12.00	6,600	\$79,200.00
3.4	CURB & GUTTER	LF	\$45.00	1,100	\$49,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,900	\$32,300.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$528,200.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	9	\$90,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	4,320	\$43,200.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$504,200.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$134,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$134,400.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,477,800.00
	CONTINGENCY: 20%	→ \$295,600.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,773,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-16.0
Location:	Bruceville Road/Elefa Road/Boa Nova Drive
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$266,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$177,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$443,500.00</b>

**TOTAL PROJECT COST \*: \$2,216,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	15,010	\$138,900.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	450	\$54,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$19,290.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$212,190.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	20%	CON. COST	\$354,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$354,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$53,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$53,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$620,200.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

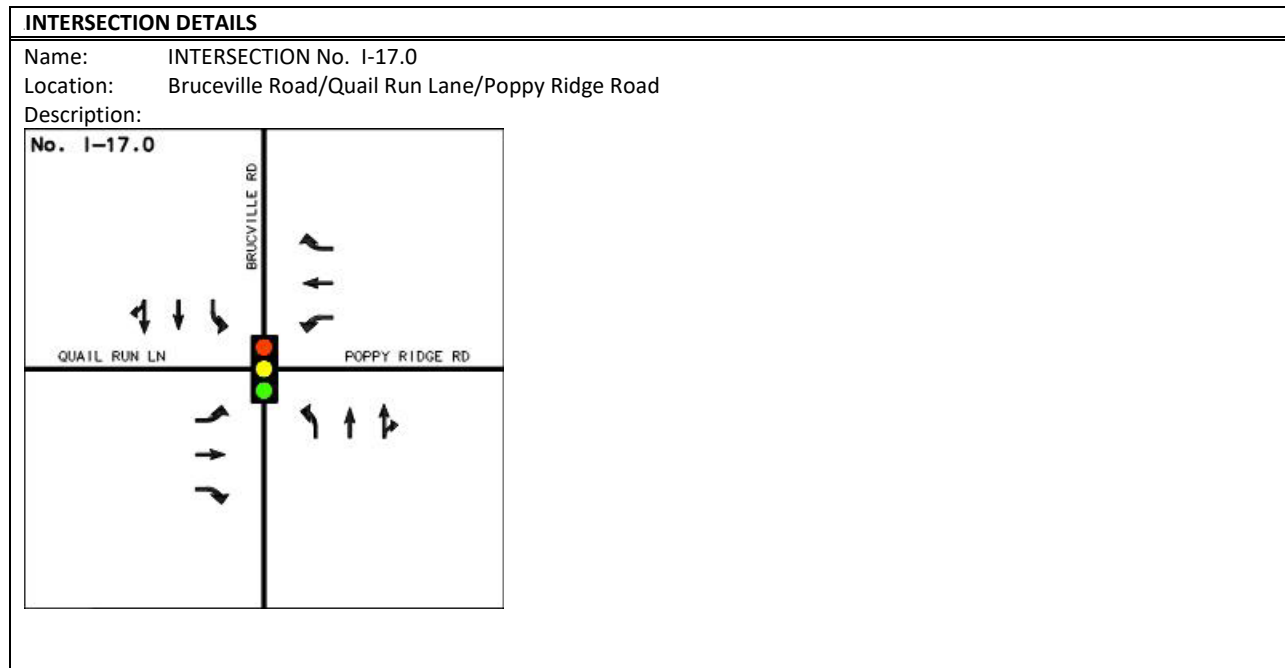
<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-17.0					
Location:	Bruceville Road/Quail Run Lane/Poppy Ridge Road					
Description:	Modify traffic signal for a widened 2x4 intersection. North leg is restriping only. The West leg requires video detection only. Southeast quadrant requires construction. Fiber optic cable will only be required along Bruceville Rd.					
<p>The diagram shows a 2x4 intersection. Bruceville Rd runs north-south. Quail Run Ln runs east-west to the west of Bruceville Rd. Poppy Ridge Rd runs east-west to the east of Bruceville Rd. A traffic signal is located at the intersection of Bruceville Rd and Quail Run Ln. Lane markings include straight, left, and right turns for all directions. A north arrow is present in the top right quadrant.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Poppy Ridge Rd			Collector	100	4" HMA on 16" AB
West	Quail Run Ln			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,190	\$125,700.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$125,700.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,490	\$224,100.00
3.2	AGGREGATE BASE	CY	\$60.00	3,280	\$196,800.00
3.3	SIDEWALK	SF	\$12.00	6,000	\$72,000.00
3.4	CURB & GUTTER	LF	\$45.00	1,000	\$45,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,900	\$32,300.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$570,200.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$400,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$100,000.00	1	\$100,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$305,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$125,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$125,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$1,376,250.00
	CONTINGENCY: 20% → \$275,300.00
	<b>TOTAL CONSTRUCTION COSTS: \$1,651,550.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-17.0
Location:	Bruceville Road/Quail Run Lane/Poppy Ridge Road
Description:	
<p>The diagram shows a T-intersection where Bruceville Rd (vertical) meets Quail Run Ln (horizontal) and Poppy Ridge Rd (horizontal). Bruceville Rd has a traffic signal with red, yellow, and green lights. Quail Run Ln has three lanes with left, through, and right turn arrows. Poppy Ridge Rd has three lanes with left, through, and right turn arrows. The intersection is labeled 'No. I-17.0'.</p>	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$247,800.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$165,200.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$413,000.00</b>

**TOTAL PROJECT COST \*: \$2,064,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

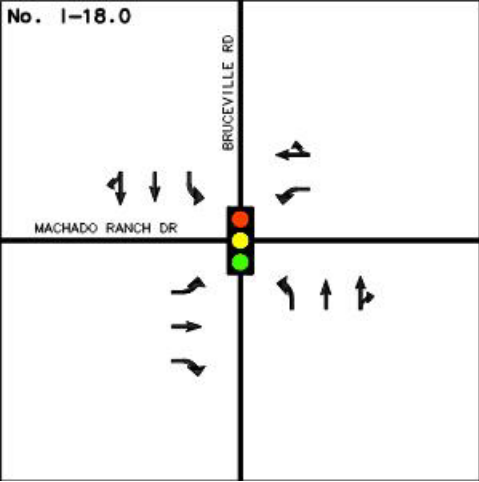
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	20%	CON. COST	\$330,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$330,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$49,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$49,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$380,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-18.0					
Location:	Bruceville Road/Machado Ranch Drive					
Description:	Modify traffic signal to widen to a 2x4 intersection. The West leg has already been built while the East leg needs to be constructed. Right of way is required only on the Northeast quadrant while the Southeast quadrant is dedicated.					
						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Bruceville Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Chester Dawson Way			Collector	100	4" HMA on 13" AB
West	Machado Ranch Dr			Primary Residential	250	4" HMA on 16" AB

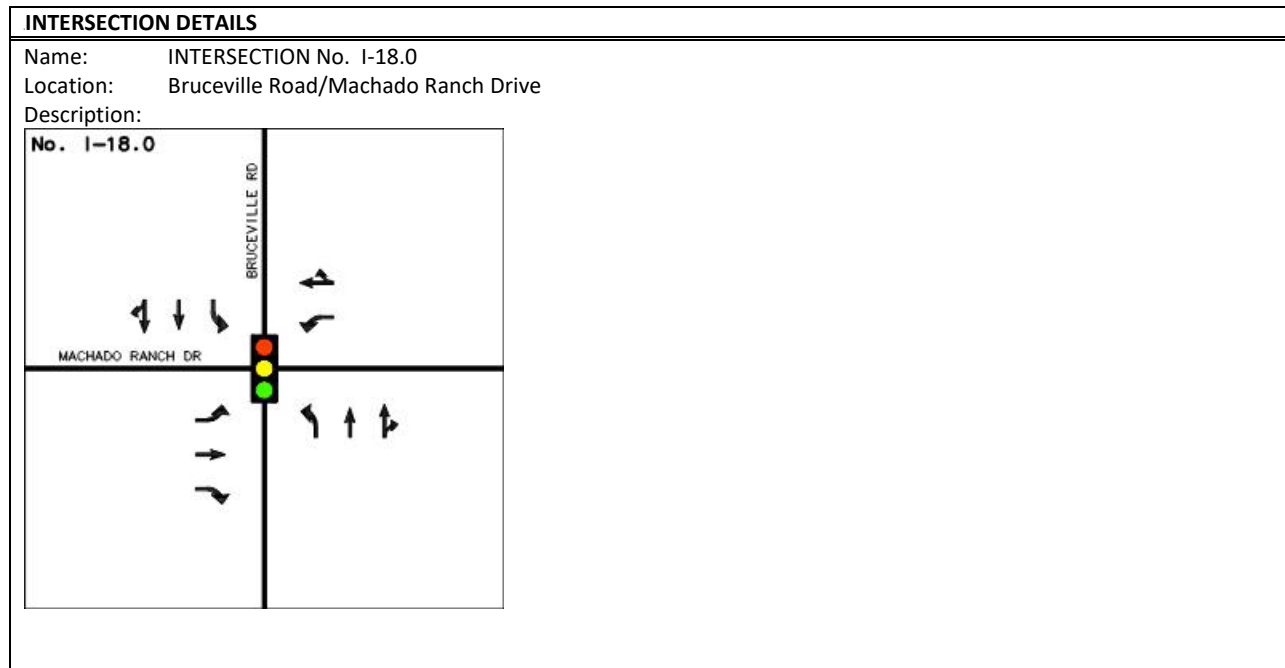
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,710	\$141,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$141,300.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,390	\$215,100.00
3.2	AGGREGATE BASE	CY	\$60.00	3,700	\$222,000.00
3.3	SIDEWALK	SF	\$12.00	8,400	\$100,800.00
3.4	CURB & GUTTER	LF	\$45.00	1,400	\$63,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,500	\$42,500.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$643,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	11	\$110,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$445,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$148,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$148,000.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,627,850.00
	CONTINGENCY: 20%	→ \$325,600.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,953,450.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-18.0
Location:	Bruceville Road/Machado Ranch Drive
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$293,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$195,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$488,500.00</b>

**TOTAL PROJECT COST \*: \$2,442,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	34,794	\$321,900.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	450	\$54,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$37,590.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$413,490.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	20%	CON. COST	\$390,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$390,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$58,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$58,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$862,900.00**

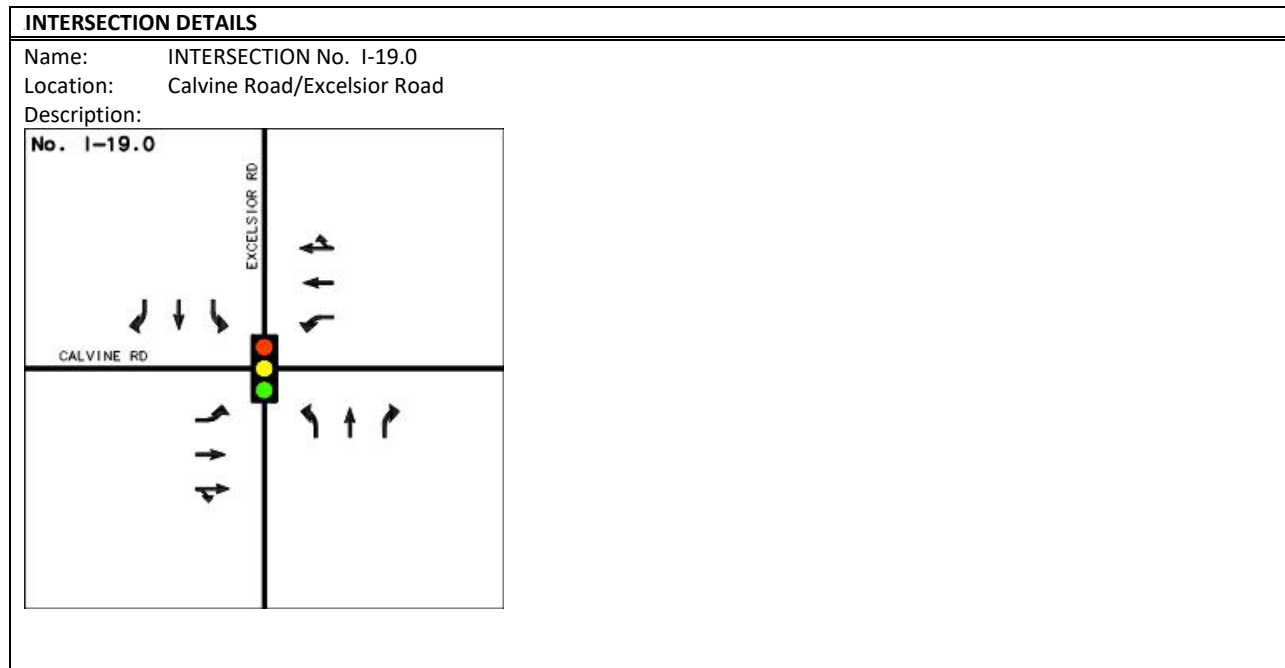
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-19.0					
Location:	Calvine Road/Excelsior Road					
Description:	Install new traffic signal for a widened 4x2 intersection. The existing intersection is a 2x2 stop-controlled intersection.					
<p>The diagram shows a 4x2 intersection. Excelsior Rd runs north-south, and Calvine Rd runs east-west. A traffic signal is located at the center of the intersection. Arrows indicate traffic flow: northbound and southbound on Excelsior Rd, and eastbound and westbound on Calvine Rd. The intersection is labeled 'No. I-19.0'.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Excelsior Rd			Collector	450	4" HMA on 16" AB
South	Excelsior Rd			Collector	450	4" HMA on 16" AB
East	Calvine Rd			Minor Arterial	450	5.5" HMA on 21" AB
West	Calvine Rd			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,310	\$189,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$189,300.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,880	\$259,200.00
3.2	AGGREGATE BASE	CY	\$60.00	5,040	\$302,400.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,044,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$545,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$211,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$211,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,322,900.00
	CONTINGENCY: 20%	→ \$464,600.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,787,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-19.0
Location:	Calvine Road/Excelsior Road
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$418,200.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$278,800.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$697,000.00</b>

**TOTAL PROJECT COST \*: \$3,484,500.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$278,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$278,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$83,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$83,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$362,500.00**



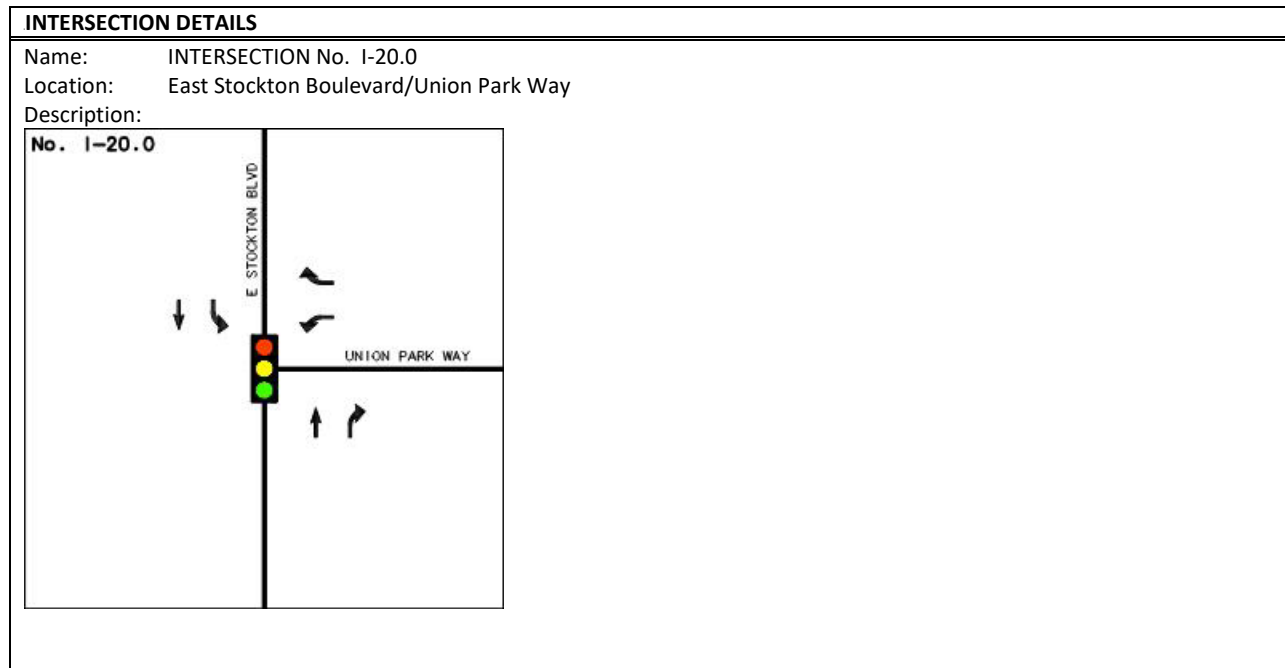
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-20.0					
Location:	East Stockton Boulevard/Union Park Way					
Description:	Install new traffic signal at an existing 2x2 intersection. The existing intersection requires restriping only.					
<b>No. I-20.0</b>						
<b>Leg</b>	<b>Rdwy Name</b>	<b>Pvmt Condition</b>	<b>Present Rdwy Class</b>	<b>Future Rdwy Class</b>	<b>Length</b>	<b>Pavement Section</b>
North	E Stockton Blvd			Collector	450	4" HMA on 16" AB
South	E Stockton Blvd			Collector	450	4" HMA on 16" AB
East	Union Park Way			Collector	450	4" HMA on 16" AB
West	-			Collector	0	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	880	\$79,200.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$79,200.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$371,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$45,100.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$45,100.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$495,300.00
	CONTINGENCY: 20%	→ \$99,100.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$594,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-20.0
Location:	East Stockton Boulevard/Union Park Way
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$89,200.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$59,500.00
8.3	CALTRANS COORDINATION	LS	3%	CON. COST	\$17,900.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$166,600.00</b>

**TOTAL PROJECT COST \*: \$761,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$11,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$11,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$17,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$17,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$29,800.00**

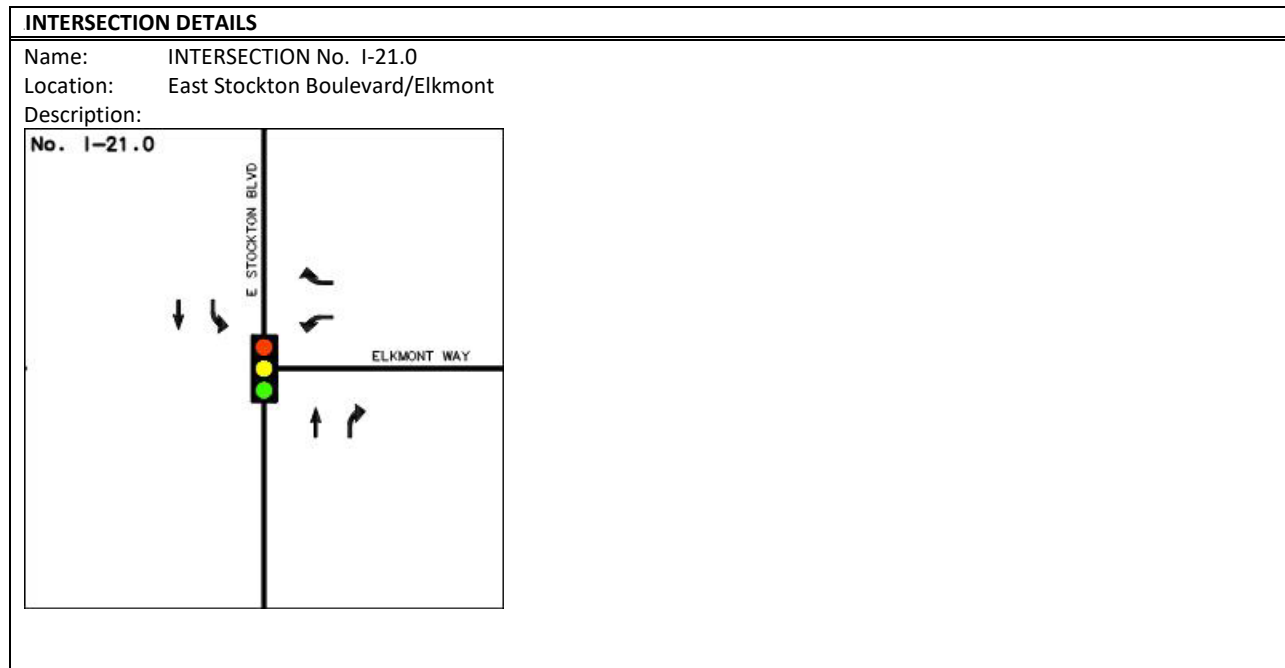
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-21.0					
Location:	East Stockton Boulevard/Elkmont					
Description:	Install new traffic signal at an existing 2x2 intersection. The existing intersection requires restriping only.					
<p>The diagram shows a vertical road labeled 'E STOCKTON BLVD' and a horizontal road labeled 'ELKMONT WAY'. A traffic signal is located at the intersection. Arrows indicate traffic flow: two lanes on E Stockton Blvd (one straight, one right-turn), two lanes on Elkmont Way (one straight, one right-turn), and a left-turn lane on E Stockton Blvd. A north-south arrow is also shown on the left side of E Stockton Blvd.</p>						
<b>No. I-21.0</b>						
<b>Leg</b>	<b>Rdwy Name</b>	<b>Pvmt Condition</b>	<b>Present Rdwy Class</b>	<b>Future Rdwy Class</b>	<b>Length</b>	<b>Pavement Section</b>
North	E Stockton Blvd			Collector	450	4" HMA on 16" AB
South	E Stockton Blvd			Collector	450	4" HMA on 16" AB
East	Elkmont Way			Collector	450	4" HMA on 16" AB
West	-			Collector	0	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	880	\$79,200.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$79,200.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$315,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$39,500.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$39,500.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$433,700.00
	CONTINGENCY: 20%	→ \$86,800.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$520,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-21.0
Location:	East Stockton Boulevard/Elkmont
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$78,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$52,100.00
8.3	CALTRANS COORDINATION	LS	3%	CON. COST	\$15,700.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$145,900.00</b>

**TOTAL PROJECT COST \*: \$666,400.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$10,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$10,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$15,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$15,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$26,200.00**

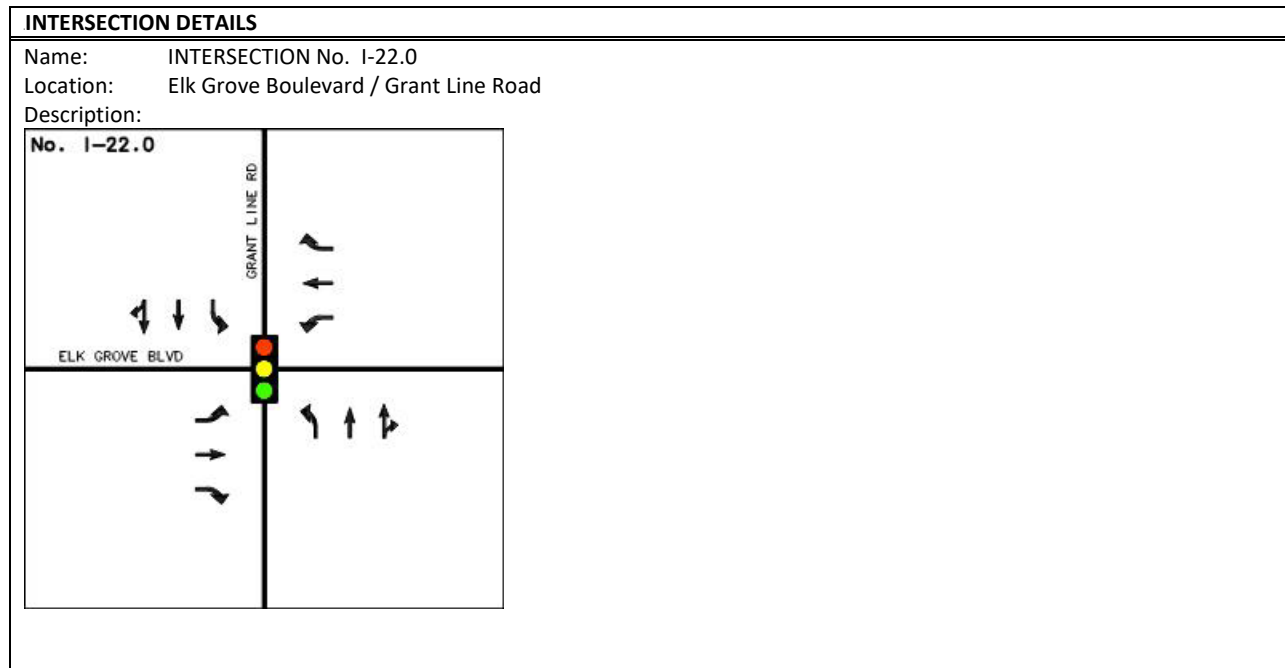
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-22.0					
Location:	Elk Grove Boulevard / Grant Line Road					
Description:	Install Traffic Signal at a widened 2x4 intersection. Elk Grove Boulevard is a 2 lane road. Grant line Road to be widened to 4 lanes. Currently a stop controlled intersection.					
<p>The diagram shows a T-intersection where Elk Grove Blvd (a 2-lane road) meets Grant Line Rd (a 4-lane road). A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound on Grant Line Rd, southbound on Grant Line Rd, eastbound on Elk Grove Blvd, and westbound on Elk Grove Blvd. A northbound turn lane is also shown on Grant Line Rd.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	-			Collector	450	4" HMA on 16" AB
West	Elk Grove Blvd			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,260	\$187,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$187,800.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,750	\$247,500.00
3.2	AGGREGATE BASE	CY	\$60.00	4,980	\$298,800.00
3.3	SIDEWALK	SF	\$12.00	16,560	\$198,720.00
3.4	CURB & GUTTER	LF	\$45.00	3,180	\$143,100.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$949,320.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$545,400.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$193,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$193,300.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,125,570.00
	CONTINGENCY: 20%	→ \$425,200.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,550,770.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-22.0
Location:	Elk Grove Boulevard / Grant Line Road
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$382,700.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$255,100.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$637,800.00</b>

**TOTAL PROJECT COST \*: \$3,188,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$51,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$51,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$76,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$76,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$127,700.00**

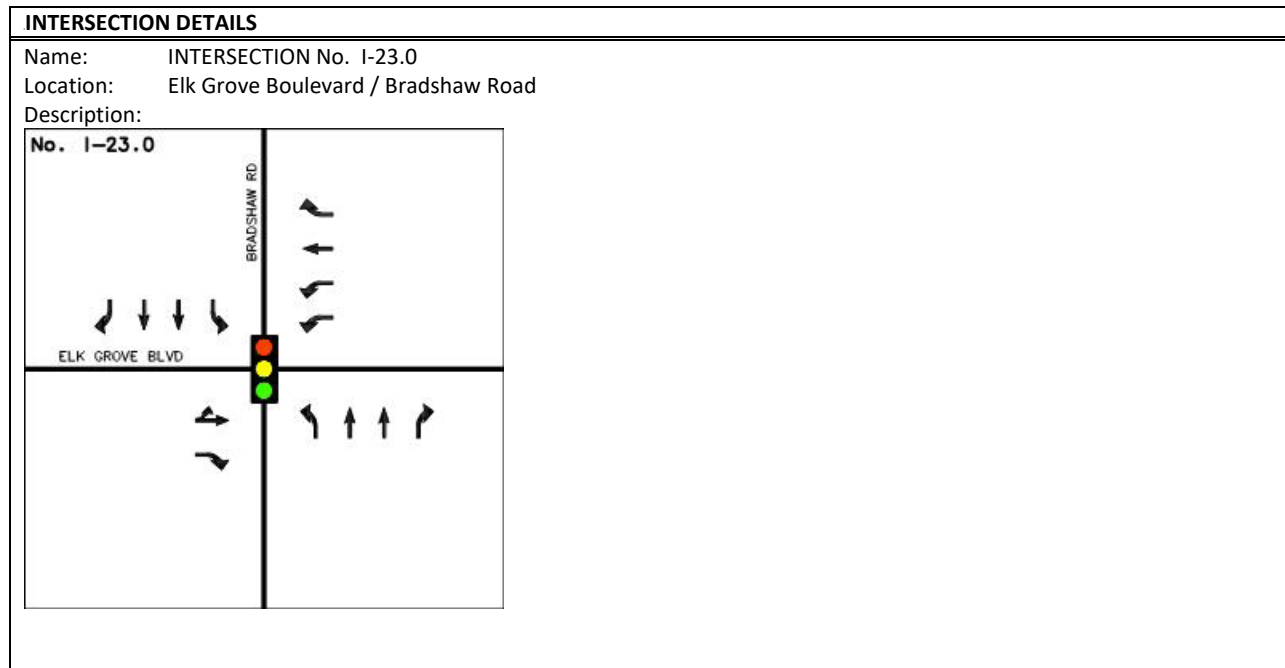
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-23.0					
Location:	Elk Grove Boulevard / Bradshaw Road					
Description:	Install Traffic Signal at a widened 2x4 intersection. Elk Grove Boulevard is a 2 lane road. Bradshaw Road is a 2 lane road. Currently a stop controlled intersection.					
<p>The diagram shows a 2x4 intersection. Bradshaw Rd runs north-south, and Elk Grove Blvd runs east-west. A traffic signal is located at the intersection. Lane markings include left, through, and right turns for both directions on both roads. The signal is currently showing a green light for northbound traffic on Bradshaw Rd.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bradshaw Rd			Major Arterial	450	6.5" HMA on 23" AB
South	Bradshaw Rd			Major Arterial	450	6.5" HMA on 23" AB
East	Elk Grove Blvd			Minor Arterial	450	5.5" HMA on 21" AB
West	Elk Grove Blvd			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	11,940	\$358,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$358,200.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	5,510	\$495,900.00
3.2	AGGREGATE BASE	CY	\$60.00	9,320	\$559,200.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,537,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



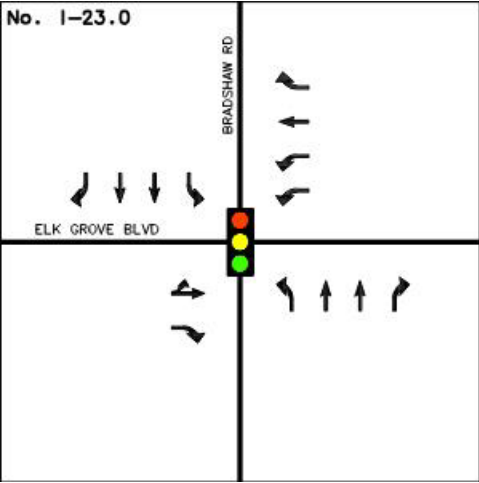
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	2,000	\$112,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$615,800.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$284,500.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$284,500.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$3,129,000.00
	CONTINGENCY: 20%	→ \$625,800.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$3,754,800.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-23.0
Location:	Elk Grove Boulevard / Bradshaw Road
Description:	 <p>The diagram shows a T-intersection where Bradshaw Rd (vertical) meets Elk Grove Blvd (horizontal). Bradshaw Rd has a traffic signal with red, yellow, and green lights. Elk Grove Blvd has a traffic signal with a green light. Lane markings include left-turn, through, and right-turn lanes on both roads. The intersection is labeled 'No. I-23.0'.</p>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$563,300.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$375,500.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$938,800.00</b>

**TOTAL PROJECT COST \*: \$4,693,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	25,074	\$56,500.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	900	\$36,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$9,250.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$101,750.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$375,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$375,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$112,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$112,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$590,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-24.0					
Location:	Elk Grove Boulevard / Kent Street					
Description:	Install Traffic Signal 2x2 at existing intersection. North leg is a driveway into an apartment complex; South leg is a stop controlled residential street. Elk Grove Blvd is uncontrolled. ROW is required for pavement work (sidewalk, turn pockets, etc).					
<p>The diagram shows a T-intersection where Kent St (a driveway) meets Elk Grove Blvd. A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound on the driveway, southbound on Kent St, and eastbound and westbound on Elk Grove Blvd. The driveway is labeled 'DRIVEWAY' and 'No. I-24.0'. The streets are labeled 'KENT ST' and 'ELK GROVE BLVD'.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Driveway			Driveway	0	0" HMA on 0" AB
South	Kent St			Collector	450	4" HMA on 16" AB
East	Elk Grove Blvd			Collector	450	4" HMA on 16" AB
West	Elk Grove Blvd			Collector	450	4" HMA on 16" AB

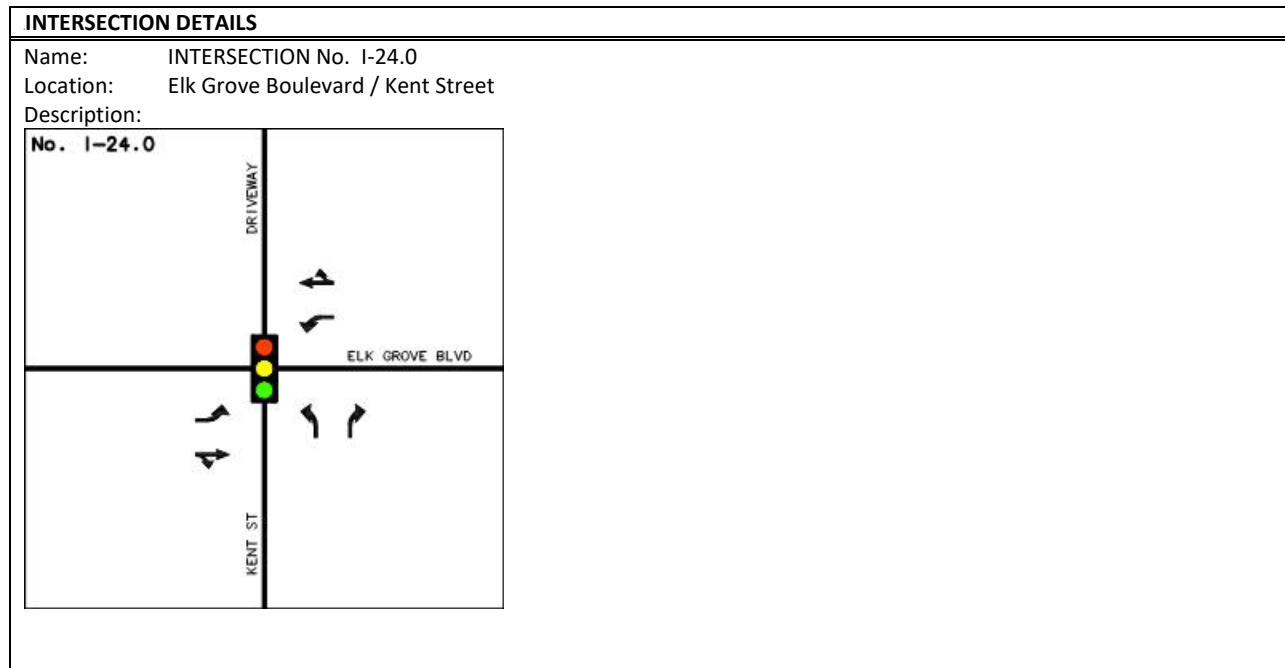
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,450	\$133,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$133,500.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	900	\$166,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$166,500.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,740	\$156,600.00
3.2	AGGREGATE BASE	CY	\$60.00	3,470	\$208,200.00
3.3	SIDEWALK	SF	\$12.00	3,642	\$43,704.00
3.4	CURB & GUTTER	LF	\$45.00	607	\$27,315.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$435,820.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



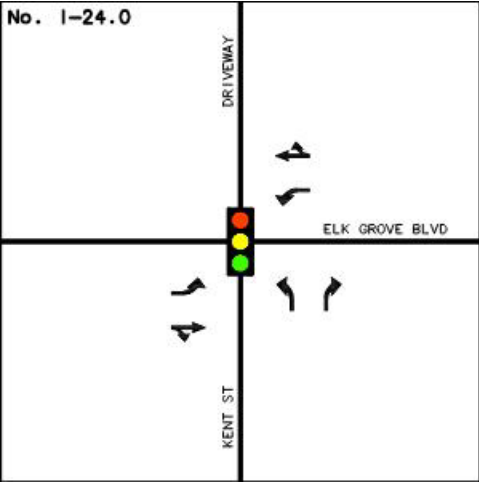
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,160	\$21,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$456,600.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$119,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$119,300.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,311,720.00
	CONTINGENCY: 20%	→ \$262,400.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,574,120.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-24.0
Location:	Elk Grove Boulevard / Kent Street
Description:	 <p>The diagram shows a T-intersection where Kent Street (a driveway) meets Elk Grove Boulevard. Elk Grove Boulevard has a traffic signal with red, yellow, and green lights. Lane markings include left-turn arrows on the left side of Elk Grove Blvd and right-turn arrows on the right side. A north-south driveway is labeled 'DRIVEWAY' and 'KENT ST'.</p>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$236,200.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$157,500.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$393,700.00</b>

**TOTAL PROJECT COST \*: \$1,967,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	11,920	\$110,300.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	1,350	\$162,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$27,230.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$299,530.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$157,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$157,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$47,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$47,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$504,400.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

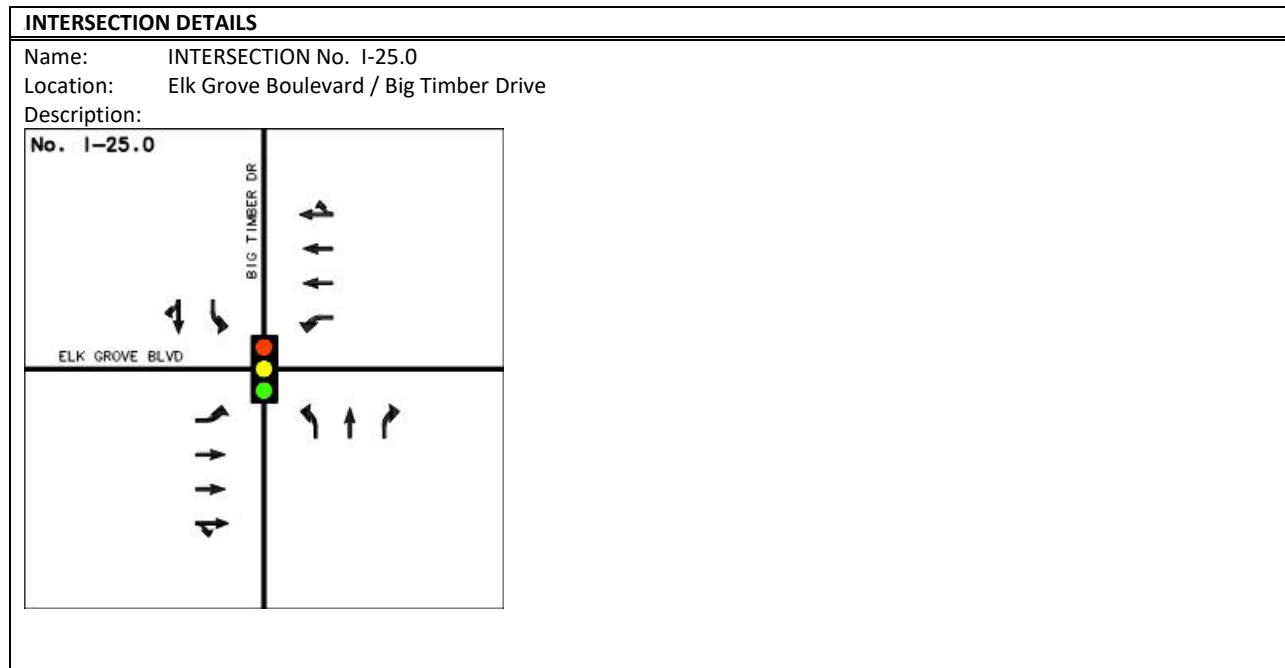
<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-25.0						
Location: Elk Grove Boulevard / Big Timber Drive						
Description: Install Traffic Signal at existing 2X6 intersection. The South leg will be constructed as a residential street. Elk Grove Blvd has an existing channelized left turn median that will need to be removed.						
<p>The diagram shows a T-intersection where Big Timber Drive (No. I-25.0) meets Elk Grove Blvd. Big Timber Drive runs north-south and has a traffic signal. Elk Grove Blvd runs east-west. Lane markings include straight, left-turn, and right-turn arrows for both directions on Big Timber Drive and both directions on Elk Grove Blvd. A traffic signal is shown at the intersection with red, yellow, and green lights.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Timber Dr			Collector	250	4" HMA on 16" AB
South	Big Timber Dr			Collector	250	4" HMA on 16" AB
East	Elk Grove Blvd			Major Arterial	450	6.5" HMA on 23" AB
West	Elk Grove Blvd			Major Arterial	450	6.5" HMA on 23" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,390	\$71,700.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$71,700.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,400	\$259,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$259,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,230	\$200,700.00
3.2	AGGREGATE BASE	CY	\$60.00	1,840	\$110,400.00
3.3	SIDEWALK	SF	\$12.00	3,000	\$36,000.00
3.4	CURB & GUTTER	LF	\$45.00	900	\$40,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,800	\$30,600.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$418,200.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	6	\$60,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$445,400.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$119,500.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$119,500.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,313,800.00
	CONTINGENCY: 20%	→ \$262,800.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,576,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-25.0
Location:	Elk Grove Boulevard / Big Timber Drive
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$236,500.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$157,700.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$394,200.00</b>

**TOTAL PROJECT COST \*: \$1,970,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$31,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$31,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$47,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$47,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$78,900.00**

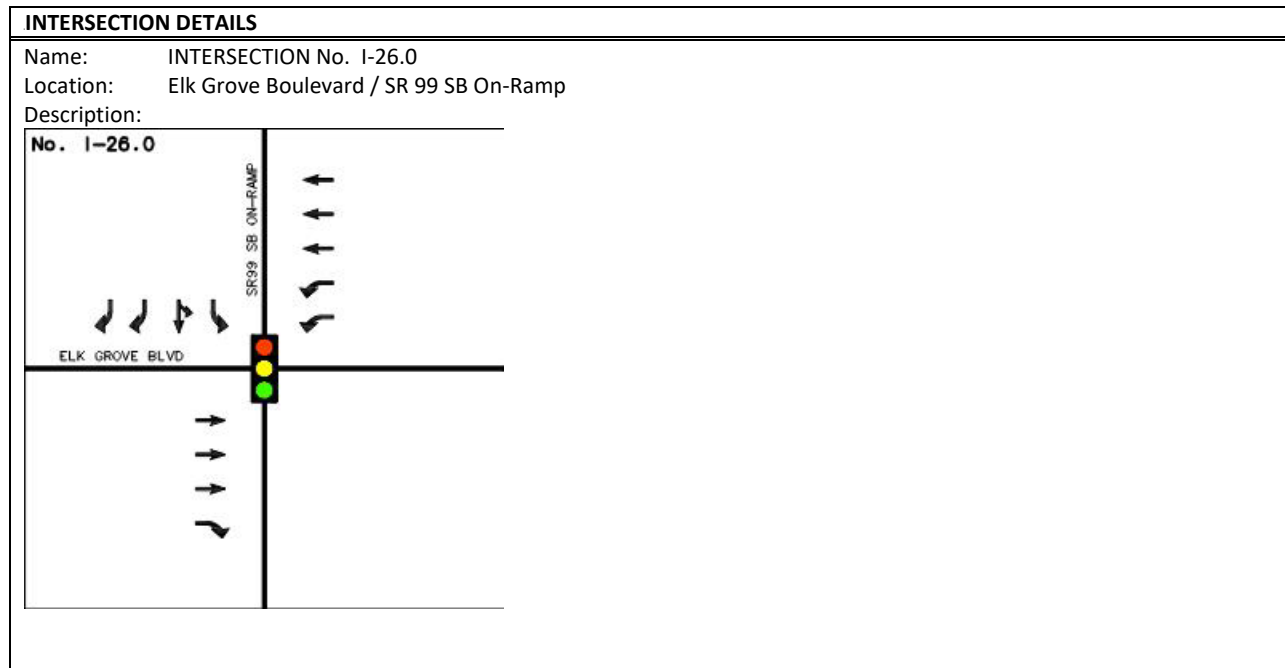
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-26.0					
Location:	Elk Grove Boulevard / SR 99 SB On-Ramp					
Description:	Construct dedicated right-turn lane from eastbound Elk Grove Boulevard to southbound SR 99 on-ramp					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	SR 99			Freeway	0	5.5" HMA on 21" AB
South	SR 99			Freeway	0	5.5" HMA on 21" AB
East	Elk Grove Blvd			Major Arterial	0	6.5" HMA on 23" AB
West	Elk Grove Blvd			Major Arterial	450	6.5" HMA on 23" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	860	\$25,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$25,800.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	120	\$22,200.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$22,200.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	490	\$44,100.00
3.2	AGGREGATE BASE	CY	\$60.00	690	\$41,400.00
3.3	SIDEWALK	SF	\$12.00	2,700	\$32,400.00
3.4	CURB & GUTTER	LF	\$45.00	450	\$20,250.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$138,150.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



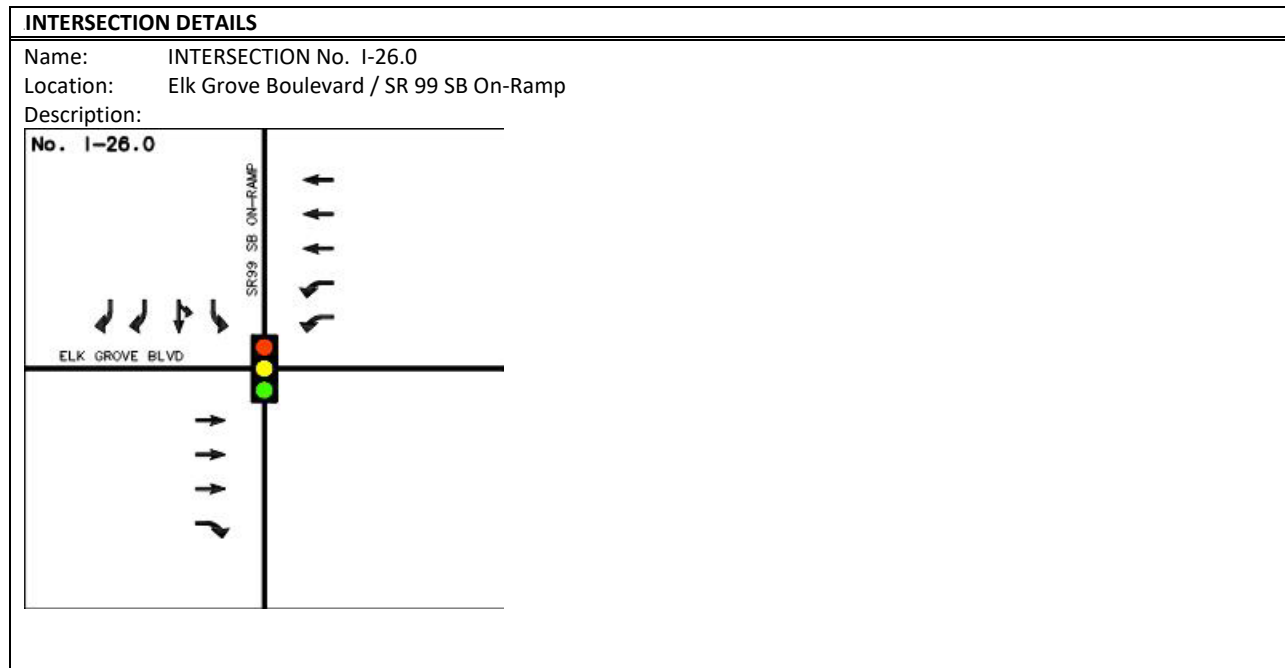
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00		\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$100,000.00	1	\$100,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$100,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$28,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$28,700.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$314,850.00
	CONTINGENCY: 20%	→ \$63,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$377,850.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$56,700.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$37,800.00
8.3	CALTRANS COORDINATION	LS	3%	CON. COST	\$11,400.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$105,900.00</b>

**TOTAL PROJECT COST \*: \$483,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	9,900	\$91,600.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	450	\$54,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$14,560.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$160,160.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$7,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$7,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$11,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$11,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$179,200.00**

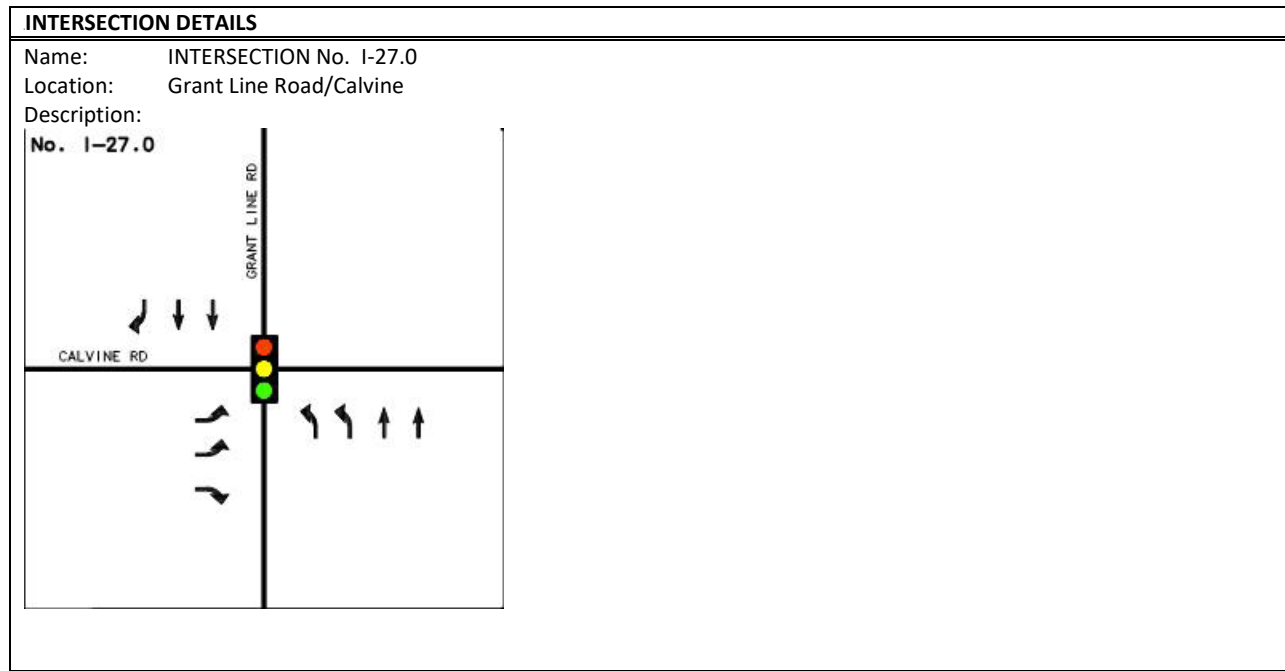
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-27.0					
Location:	Grant Line Road/Calvine					
Description:	Modify intersection for a widened 4x4 intersection. The existing intersection is a 2x2 T intersection.					
<p><b>No. I-27.0</b></p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	-			Minor Arterial	0	5.5" HMA on 21" AB
West	Calvine Rd			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,480	\$134,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$134,400.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,400	\$216,000.00
3.2	AGGREGATE BASE	CY	\$60.00	3,510	\$210,600.00
3.3	SIDEWALK	SF	\$12.00	16,200	\$194,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,700	\$45,900.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$788,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



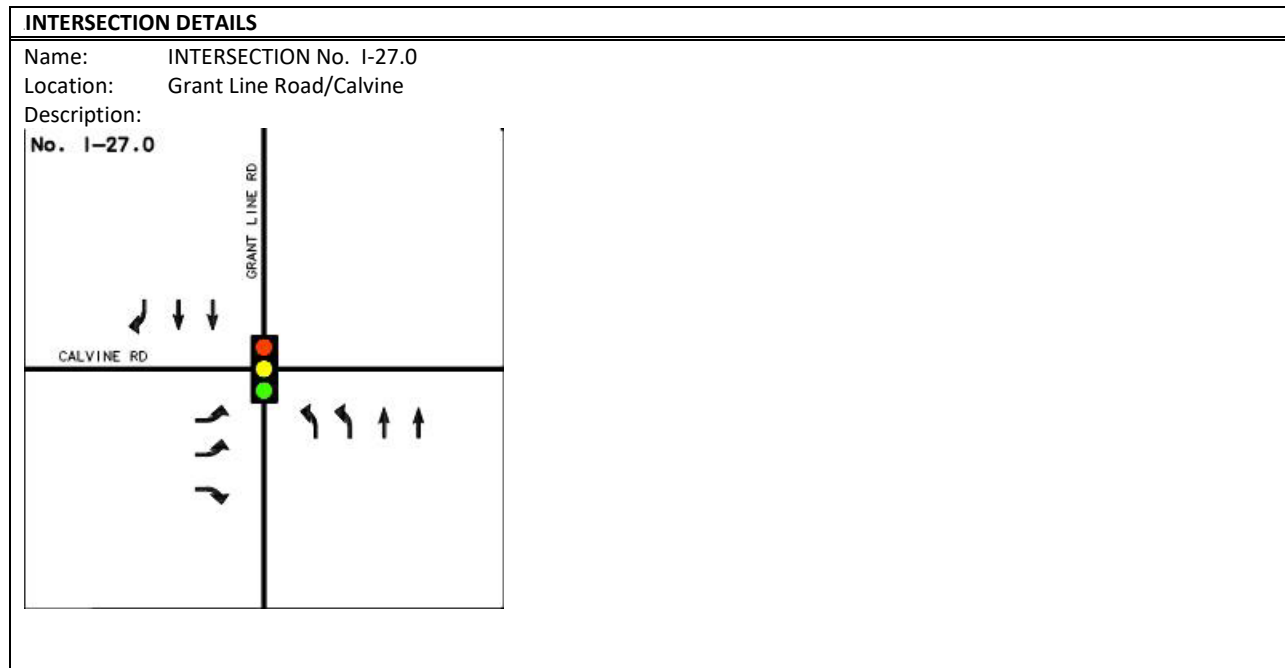
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,500	\$84,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,160	\$21,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$370,600.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$154,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$154,400.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,697,550.00
	CONTINGENCY: 20%	→ \$339,600.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,037,150.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$305,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$203,800.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$509,400.00</b>

**TOTAL PROJECT COST \*: \$2,546,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$203,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$203,800.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$61,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$61,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$265,000.00**



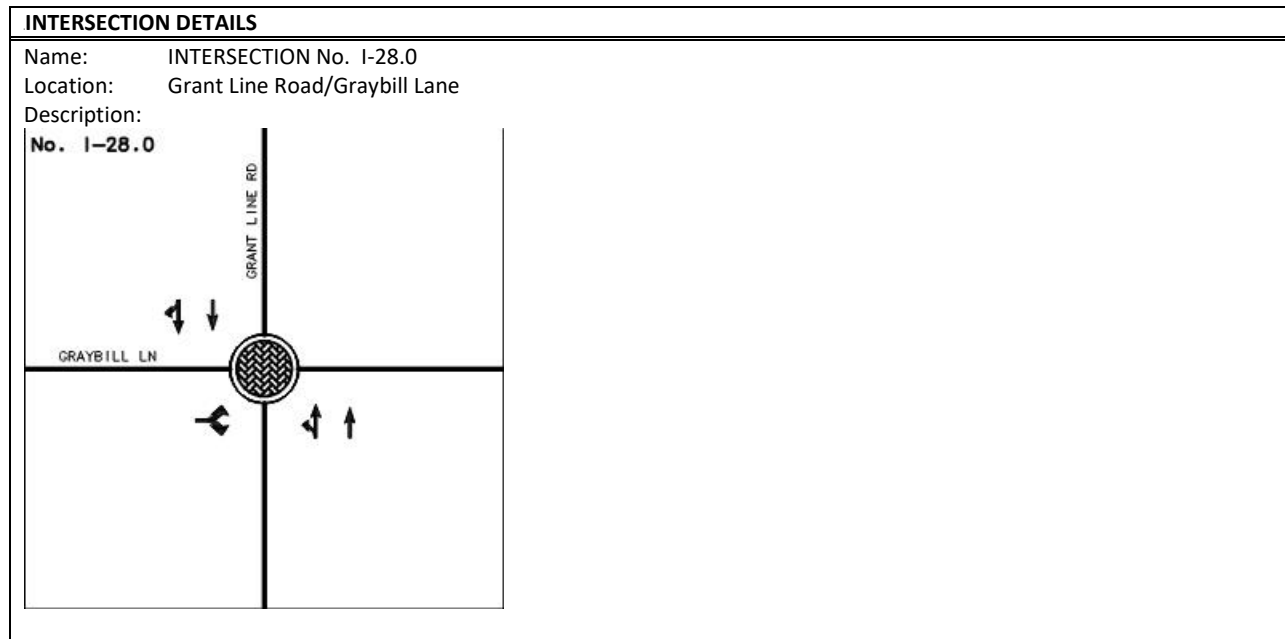
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-28.0					
Location:	Grant Line Road/Graybill Lane					
Description:	Construct 2x4 Roundabout based on Grant Line Precise Plan Exhibit. 152' inscribed circle diameter. Grant Line Road and Graybill Lane reconstruction. Cost includes severance damages on multiple properties. Relocate utilities.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	-			Collector	0	4" HMA on 16" AB
West	Graybill Ln			Collector	150	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	9,110	\$273,300.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$273,300.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,050	\$194,250.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$194,250.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,380	\$304,200.00
3.2	AGGREGATE BASE	CY	\$60.00	6,790	\$407,400.00
3.3	SIDEWALK	SF	\$12.00	18,629	\$223,550.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB	LF	\$17.00	3,230	\$54,910.00
3.6	TEXTURED PAVING	SF	\$40.00	18,930	\$757,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,909,260.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



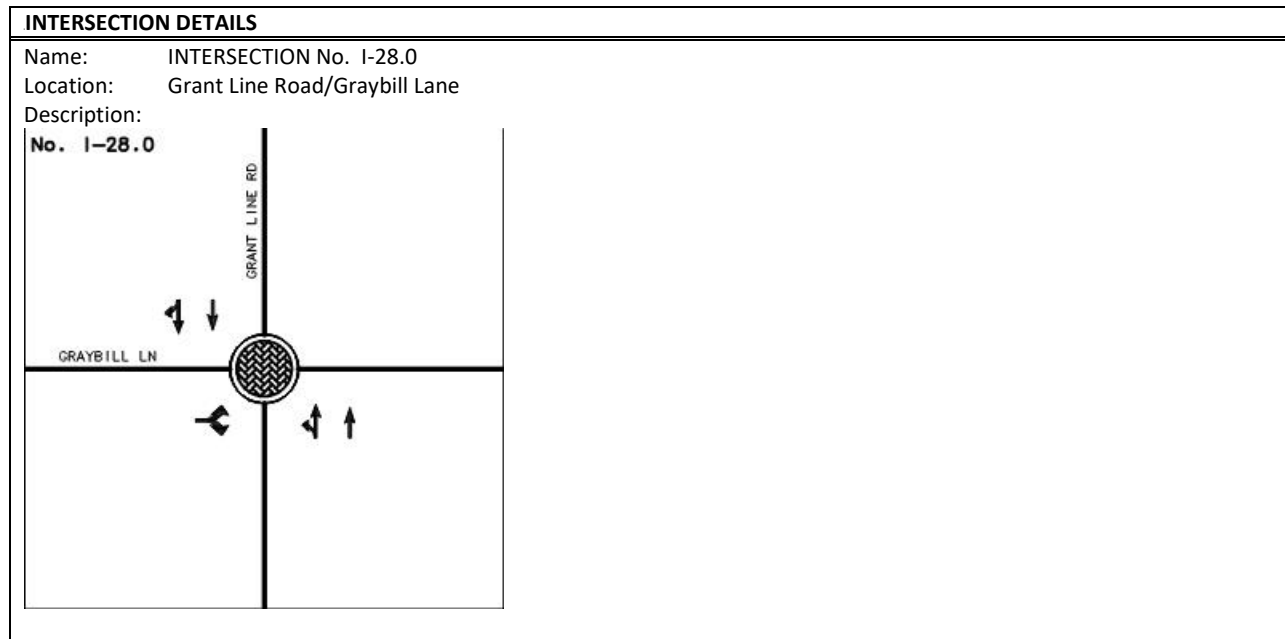
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	TRAFFIC SIGNAL REMOVAL	LS	\$125,000.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.5	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.6	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.7	LANDSCAPING	SF	\$10.00	19,340	\$193,400.00
4.8	SIGNING AND STRIPING	LS	\$50,000.00	1	\$50,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$474,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$285,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$285,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$3,136,410.00
	CONTINGENCY: 20% → \$627,300.00
	<b>TOTAL CONSTRUCTION COSTS: \$3,763,710.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$564,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$376,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$941,000.00</b>

**TOTAL PROJECT COST \*: \$4,704,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	43,750	\$405,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	2,237	\$89,500.00
9.4	SEVERANCE DAMAGES	LS	\$100,000.00	1	\$100,000.00
9.5	CONTINGENCY	LS	10%	OF ROW COST	\$49,500.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$644,000.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$376,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$376,400.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$113,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$113,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$1,133,400.00**

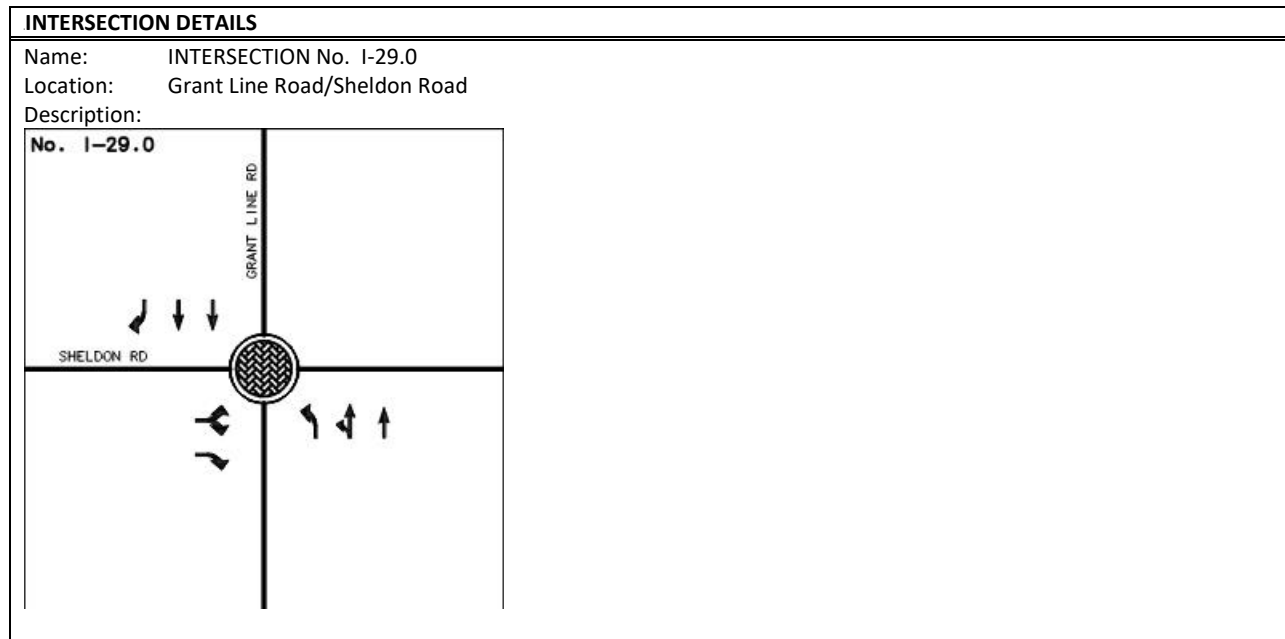
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-29.0						
Location: Grant Line Road/Sheldon Road						
Description: Construct 2x4 Roundabout based on Grant Line Precise Plan Exhibit. 140' inscribed circle diameter. Grant Line Road and Sheldon Road reconstruction. Cost includes severance damages on multiple properties. Remove existing signal and relocate utilities.						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	-			Collector	0	4" HMA on 16" AB
West	Sheldon Rd			Collector	410	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	11,310	\$339,300.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$339,300.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,310	\$242,350.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$242,350.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	4,760	\$428,400.00
3.2	AGGREGATE BASE	CY	\$60.00	8,770	\$526,200.00
3.3	SIDEWALK	SF	\$12.00	15,148	\$181,780.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB	LF	\$17.00	3,730	\$63,410.00
3.6	TEXTURED PAVING	SF	\$40.00	15,272	\$610,880.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,972,670.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



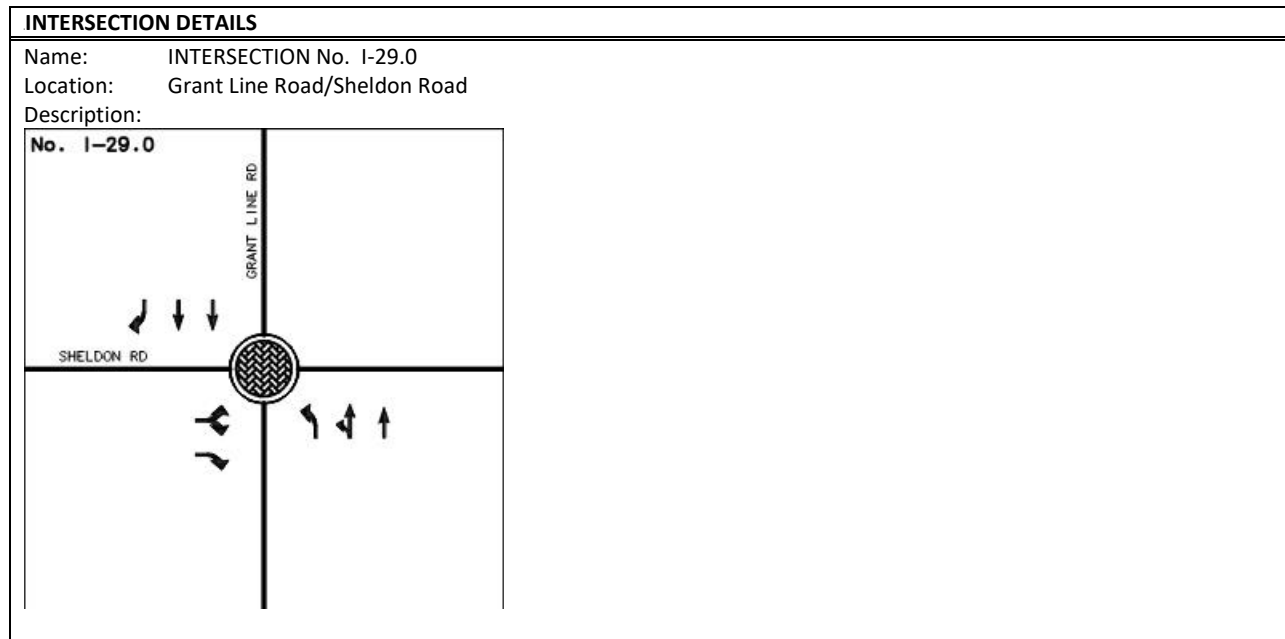
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	TRAFFIC SIGNAL REMOVAL	LS	\$125,000.00	1	\$125,000.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.5	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.6	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.7	LANDSCAPING	SF	\$10.00	16,557	\$165,600.00
4.8	SIGNING AND STRIPING	LS	\$50,000.00	1	\$50,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$571,600.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$312,600.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$312,600.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$3,438,520.00
	CONTINGENCY: 20%	→ \$687,800.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$4,126,320.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$619,000.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$412,700.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,031,700.00</b>

**TOTAL PROJECT COST \*: \$5,158,100.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	4,740	\$44,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,348	\$54,000.00
9.4	SEVERANCE DAMAGES	LS	\$20,000.00	1	\$20,000.00
9.5	CONTINGENCY	LS	10%	OF ROW COST	\$9,800.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$127,800.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$412,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$412,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$123,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$123,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$664,300.00**

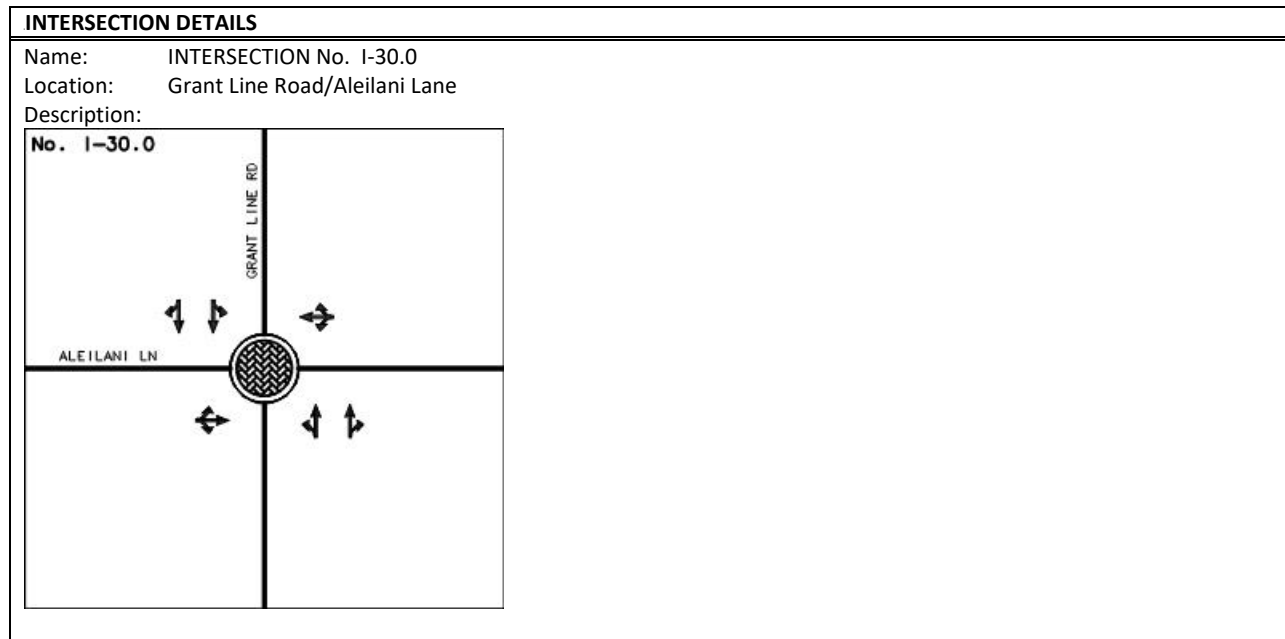
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-30.0					
Location:	Grant Line Road/Aleilani Lane					
Description:	Construct 2x4 Roundabout based on Grant Line Precise Plan Exhibit. 140' inscribed circle diameter. Grant Line Road and Aleilani Lane reconstruction. Cost includes severance damages on multiple properties. Relocate utilities. South leg length is reduced du					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Minor Arterial	400	5.5" HMA on 21" AB
South	Grant Line Rd			Minor Arterial	400	5.5" HMA on 21" AB
East	Aleilani Ln			Collector	220	4" HMA on 16" AB
West	Aleilani Ln			Collector	410	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	8,150	\$244,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$244,500.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,430	\$264,550.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$264,550.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,360	\$302,400.00
3.2	AGGREGATE BASE	CY	\$60.00	6,270	\$376,200.00
3.3	SIDEWALK	SF	\$12.00	15,061	\$180,740.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB	LF	\$17.00	2,400	\$40,800.00
3.6	TEXTURED PAVING	SF	\$40.00	5,891	\$235,630.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,297,770.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	TRAFFIC SIGNAL REMOVAL	LS	\$125,000.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	14	\$140,000.00
4.5	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.6	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.7	LANDSCAPING	SF	\$10.00	12,885	\$128,900.00
4.8	SIGNING AND STRIPING	LS	\$50,000.00	1	\$50,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$389,900.00</b>

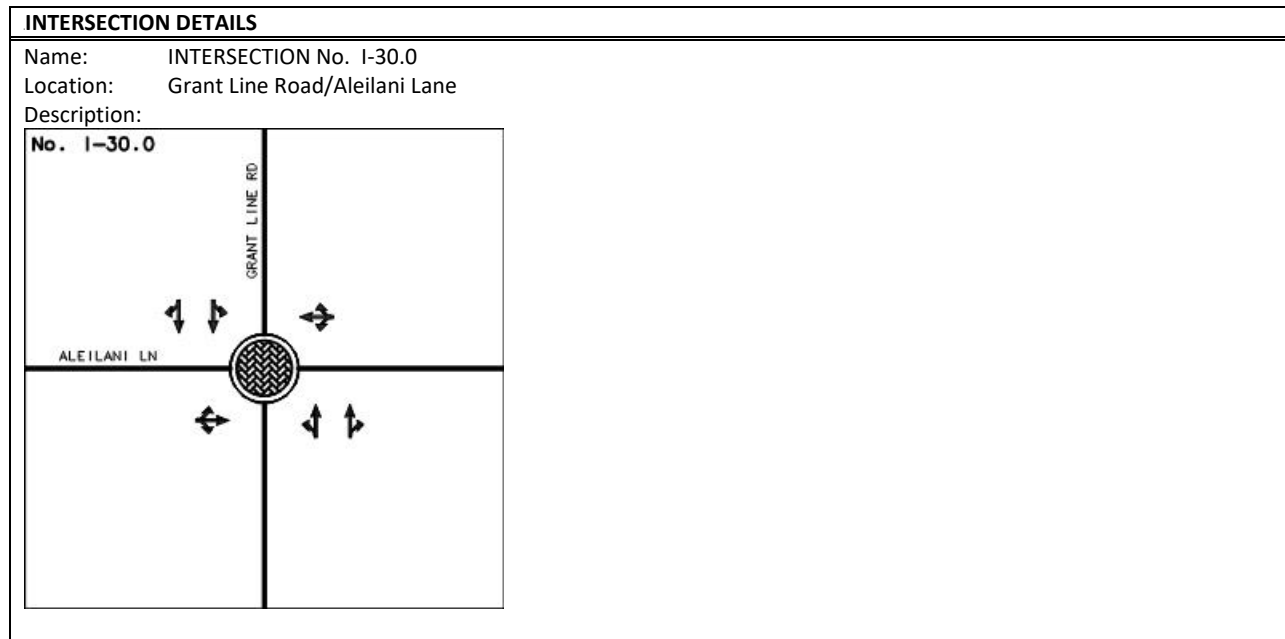
<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$219,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$219,700.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$2,416,420.00
	CONTINGENCY: 20% → \$483,300.00
	<b>TOTAL CONSTRUCTION COSTS: \$2,899,720.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$435,000.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$290,000.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$725,000.00</b>

**TOTAL PROJECT COST \*: \$3,624,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	32,480	\$301,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,485	\$59,500.00
9.4	SEVERANCE DAMAGES	LS	\$80,000.00	1	\$80,000.00
9.5	CONTINGENCY	LS	10%	OF ROW COST	\$36,100.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$476,600.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$290,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$290,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$87,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$87,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$853,600.00**

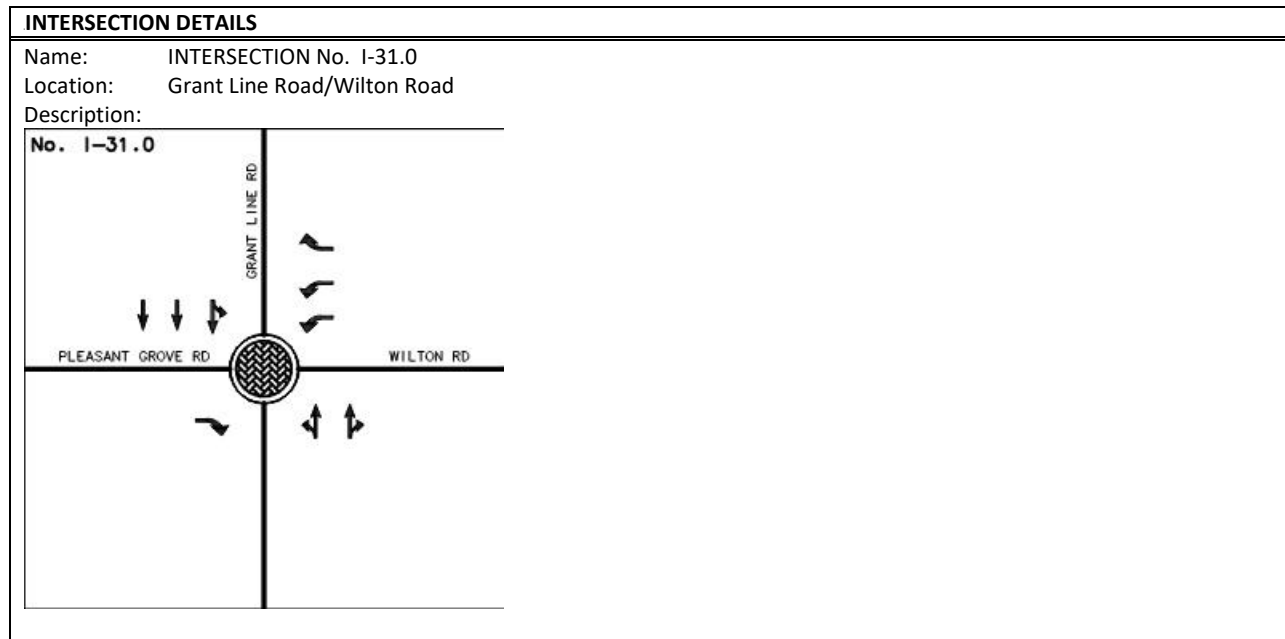
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-31.0						
Location: Grant Line Road/Wilton Road						
Description: Construct Roundabout 2x4 based on Grant Line Precise Plan exhibit. 120' inscribed circle diameter. Grant Line, Wilton, Pleasant Grove Road reconstruction. Cost includes severance damages on multiple properties. Remove exist signal and relocate utilities.						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Minor Arterial	300	5.5" HMA on 21" AB
South	Grant Line Rd			Minor Arterial	320	5.5" HMA on 21" AB
East	Wilton Rd			Collector	370	4" HMA on 16" AB
West	Pleasant Grove Rd			Collector	110	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	9,170	\$275,100.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$275,100.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,100	\$203,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$203,500.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,850	\$346,500.00
3.2	AGGREGATE BASE	CY	\$60.00	7,060	\$423,600.00
3.3	SIDEWALK	SF	\$12.00	11,091	\$133,090.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB	LF	\$17.00	1,720	\$29,240.00
3.6	TEXTURED PAVING	SF	\$40.00	5,350	\$214,000.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,308,430.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



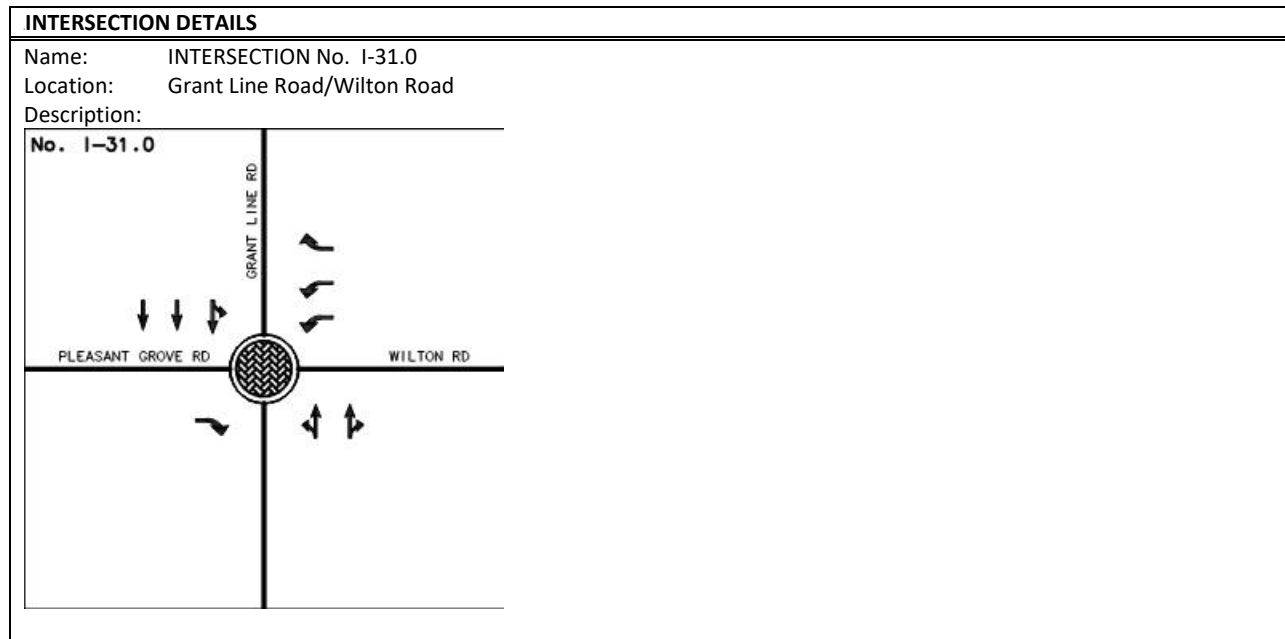
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	TRAFFIC SIGNAL REMOVAL	LS	\$125,000.00	1	\$125,000.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	10	\$100,000.00
4.5	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.6	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.7	LANDSCAPING	SF	\$10.00	11,615	\$116,200.00
4.8	SIGNING AND STRIPING	LS	\$50,000.00	1	\$50,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$462,200.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$225,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$225,000.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,474,230.00
	CONTINGENCY: 20%	→ \$494,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,969,130.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$445,400.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$297,000.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$742,400.00</b>

**TOTAL PROJECT COST \*: \$3,711,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	35,610	\$330,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,356	\$54,300.00
9.4	SEVERANCE DAMAGES	LS	\$80,000.00	1	\$80,000.00
9.5	CONTINGENCY	LS	10%	OF ROW COST	\$38,500.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$502,800.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$297,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$297,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$89,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$89,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$888,900.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-32.0					
Location:	Grant Line Road / Bradshaw Road					
Description:	Install traffic signal at widened 4x4 intersection. Existing Bradshaw Rd intersection is stop controlled. South leg is outside city jurisdiction. North leg needs to realign approach for perpendicular intersection.					
<p>The diagram shows a 4x4 intersection. Grant Line Rd runs east-west, and Bradshaw Rd runs north-south. A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound on Bradshaw Rd (left, through, right), southbound on Bradshaw Rd (left, through, right), eastbound on Grant Line Rd (left, through, right), and westbound on Grant Line Rd (left, through, right). A traffic signal is shown with a red light for northbound and southbound, and a green light for eastbound and westbound.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bradshaw Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	-			Minor Arterial	0	5.5" HMA on 21" AB
East	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB
West	Grant Line Rd			Minor Arterial	450	5.5" HMA on 21" AB

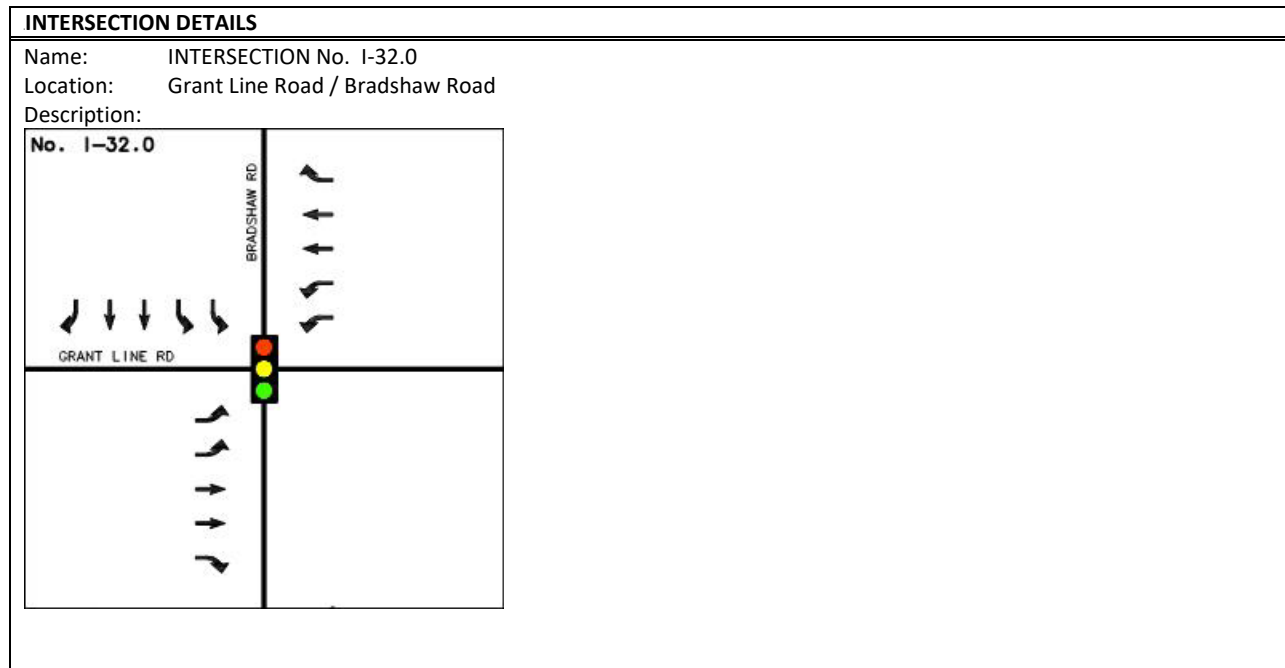
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	7,770	\$233,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$233,100.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,600	\$324,000.00
3.2	AGGREGATE BASE	CY	\$60.00	6,120	\$367,200.00
3.3	SIDEWALK	SF	\$12.00	16,200	\$194,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,700	\$45,900.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,053,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



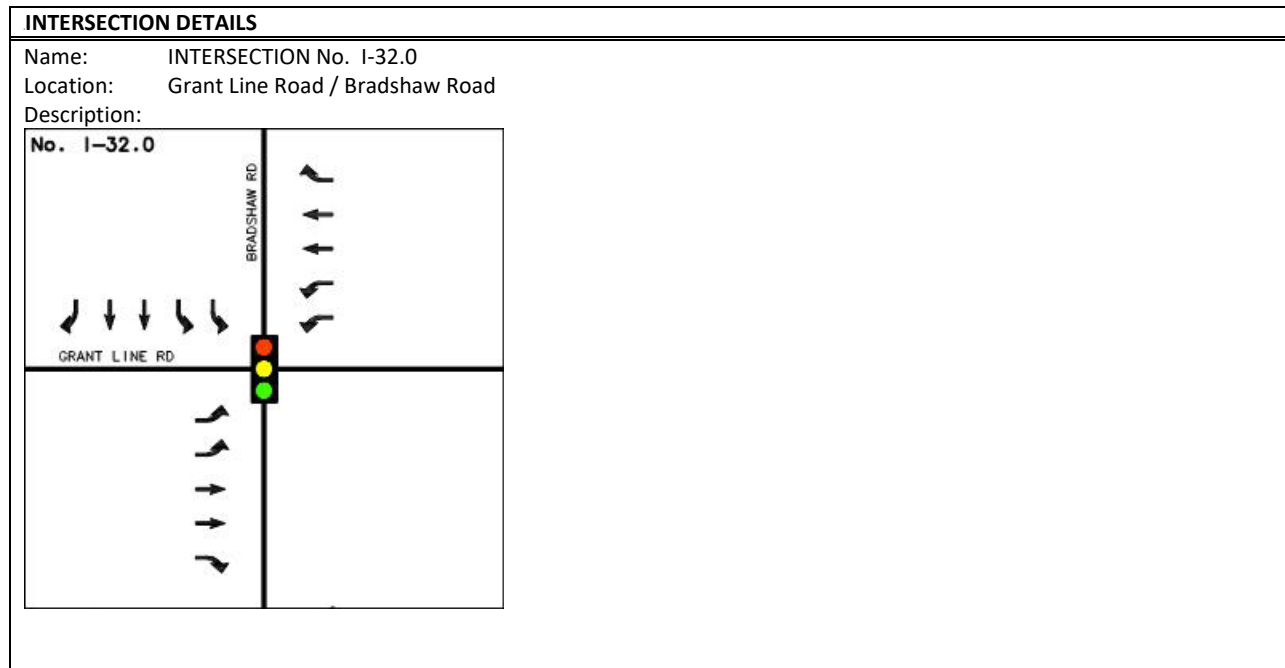
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,500	\$84,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,160	\$21,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$540,600.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$207,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$207,700.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,284,150.00
	CONTINGENCY: 20%	→ \$456,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,741,050.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$411,200.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$274,200.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$685,400.00</b>

**TOTAL PROJECT COST \*: \$3,426,500.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$274,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$274,200.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$82,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$82,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$356,500.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

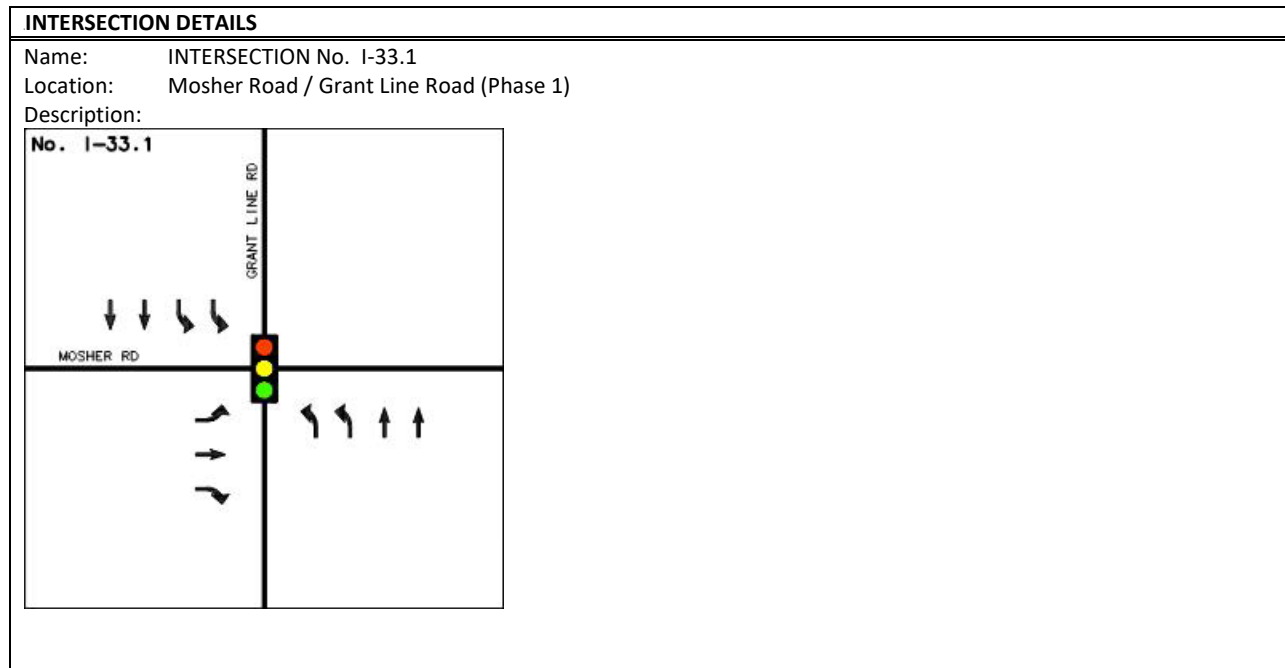
<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-33.1						
Location: Mosher Road / Grant Line Road (Phase 1)						
Description: Install Traffic Signal for a widened 2x4 intersection. The West leg is currently stop controlled while the East leg needs to be widened as a collector. The East leg is outside city jurisdiction.						
<p>The diagram shows a 2x4 intersection. Grant Line Rd runs vertically, and Mosher Rd runs horizontally. A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound on Grant Line Rd, southbound on Grant Line Rd, eastbound on Mosher Rd, and westbound on Mosher Rd. The signal is currently showing a red light for northbound traffic and a green light for southbound traffic.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
South	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
East	Mosher Rd			Collector	30	4" HMA on 16" AB
West	Mosher Rd			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,470	\$104,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$104,100.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,340	\$210,600.00
3.2	AGGREGATE BASE	CY	\$60.00	2,650	\$159,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,800	\$30,600.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$400,200.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



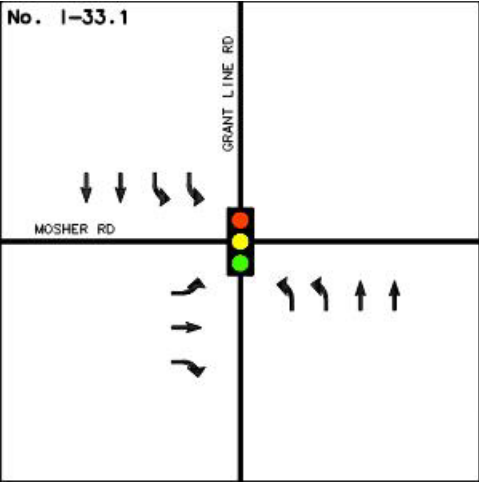
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$505,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$126,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$126,000.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,385,450.00
	CONTINGENCY: 20%	→ \$277,100.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,662,550.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-33.1
Location:	Mosher Road / Grant Line Road (Phase 1)
Description:	 <p>The diagram shows a T-intersection where Mosher Rd (No. I-33.1) meets Grant Line Rd. Grant Line Rd is a vertical road with a traffic signal (red, yellow, green lights) at the intersection. Mosher Rd is a horizontal road that terminates at Grant Line Rd. Arrows indicate traffic flow: on Grant Line Rd, traffic flows north and south; on Mosher Rd, traffic flows east and west. Lane markings include straight, left-turn, and right-turn lanes.</p>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$249,400.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$166,300.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$415,700.00</b>

**TOTAL PROJECT COST \*: \$2,078,300.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$166,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$166,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$49,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$49,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$216,200.00**

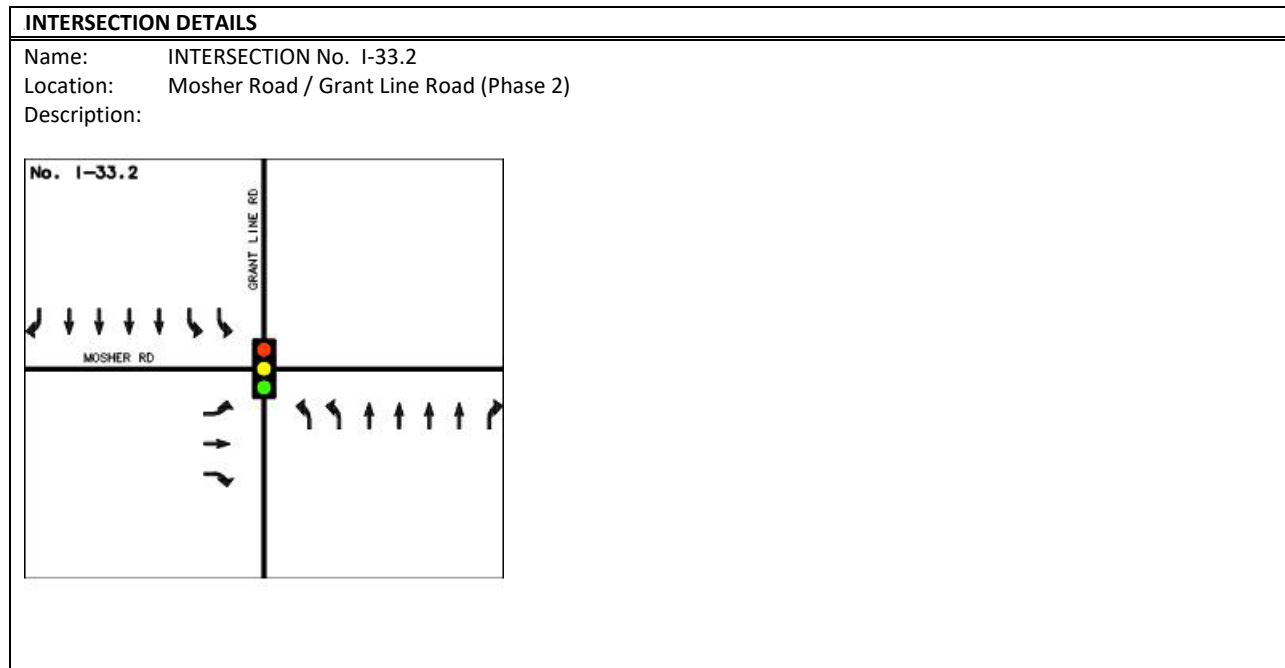
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-33.2					
Location:	Mosher Road / Grant Line Road (Phase 2)					
Description:	Widen intersection to 2x8 and construct frontage. The East leg is outside city jurisdiction.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
South	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
East	Mosher Rd			Collector	30	4" HMA on 16" AB
West	Mosher Rd			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,260	\$157,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$157,800.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,170	\$195,300.00
3.2	AGGREGATE BASE	CY	\$60.00	4,160	\$249,600.00
3.3	SIDEWALK	SF	\$12.00	13,500	\$162,000.00
3.4	CURB & GUTTER	LF	\$45.00	2,250	\$101,250.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$708,150.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



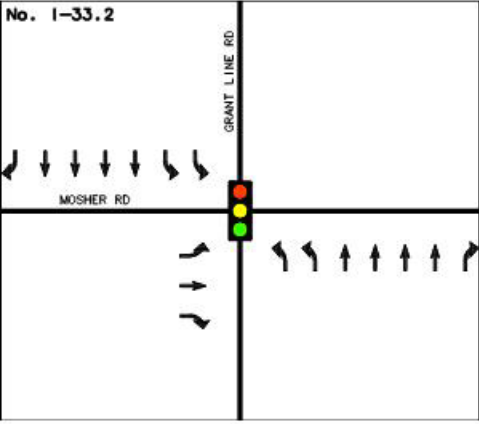
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$86,600.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$86,600.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$952,550.00
	CONTINGENCY: 20% → \$190,600.00
	<b>TOTAL CONSTRUCTION COSTS: \$1,143,150.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-33.2
Location:	Mosher Road / Grant Line Road (Phase 2)
Description:	
	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$171,500.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$114,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$285,900.00</b>

**TOTAL PROJECT COST \*: \$1,429,100.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$22,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$22,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$34,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$34,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$57,200.00**

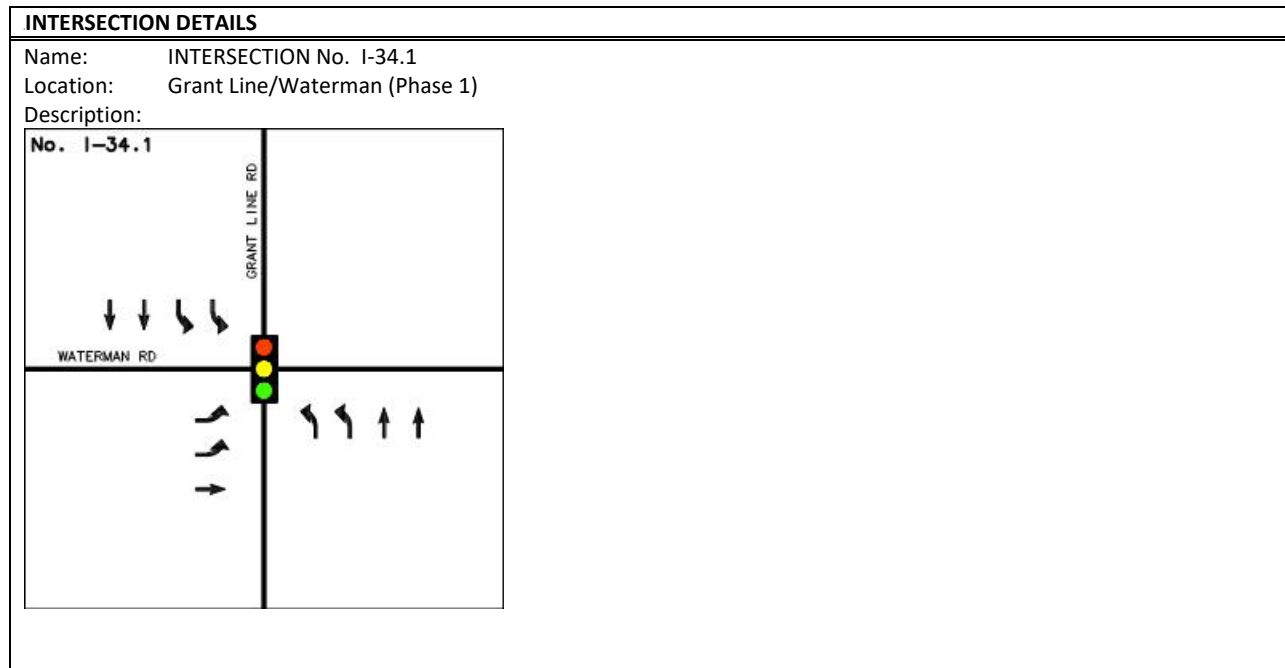
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-34.1					
Location:	Grant Line/Waterman (Phase 1)					
Description:	Restriping on existing 4x4 intersection. The North leg requires restriping and extending the approach. The East leg is outside city jurisdiction.					
<b>Leg</b>	<b>Rdwy Name</b>	<b>Pvmt Condition</b>	<b>Present Rdwy Class</b>	<b>Future Rdwy Class</b>	<b>Length</b>	<b>Pavement Section</b>
North	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
South	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
East	-			Minor Arterial	30	5.5" HMA on 21" AB
West	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,260	\$37,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$37,800.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,590	\$143,100.00
3.2	AGGREGATE BASE	CY	\$60.00	950	\$57,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,700	\$45,900.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$246,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



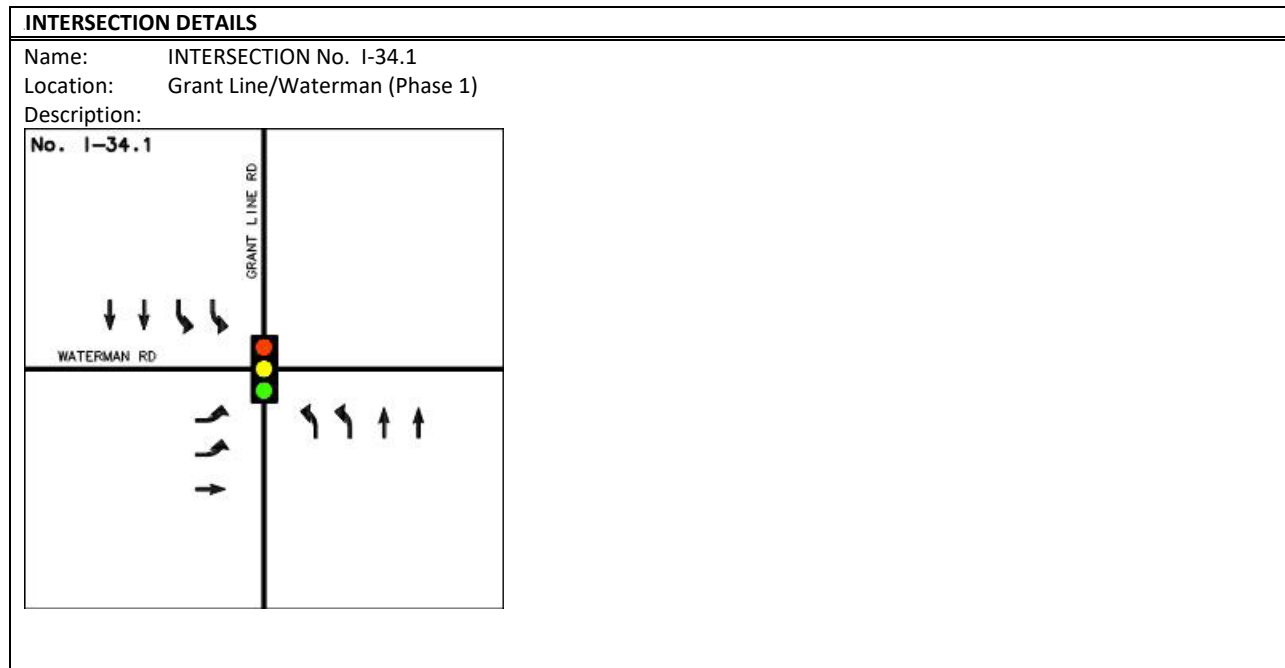
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,500	\$84,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	720	\$7,200.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$476,200.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$101,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$101,000.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,110,750.00
	CONTINGENCY: 20%	→ \$222,200.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,332,950.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$200,000.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$133,300.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$333,300.00</b>

**TOTAL PROJECT COST \*: \$1,666,300.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$26,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$26,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$40,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$40,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$66,700.00**



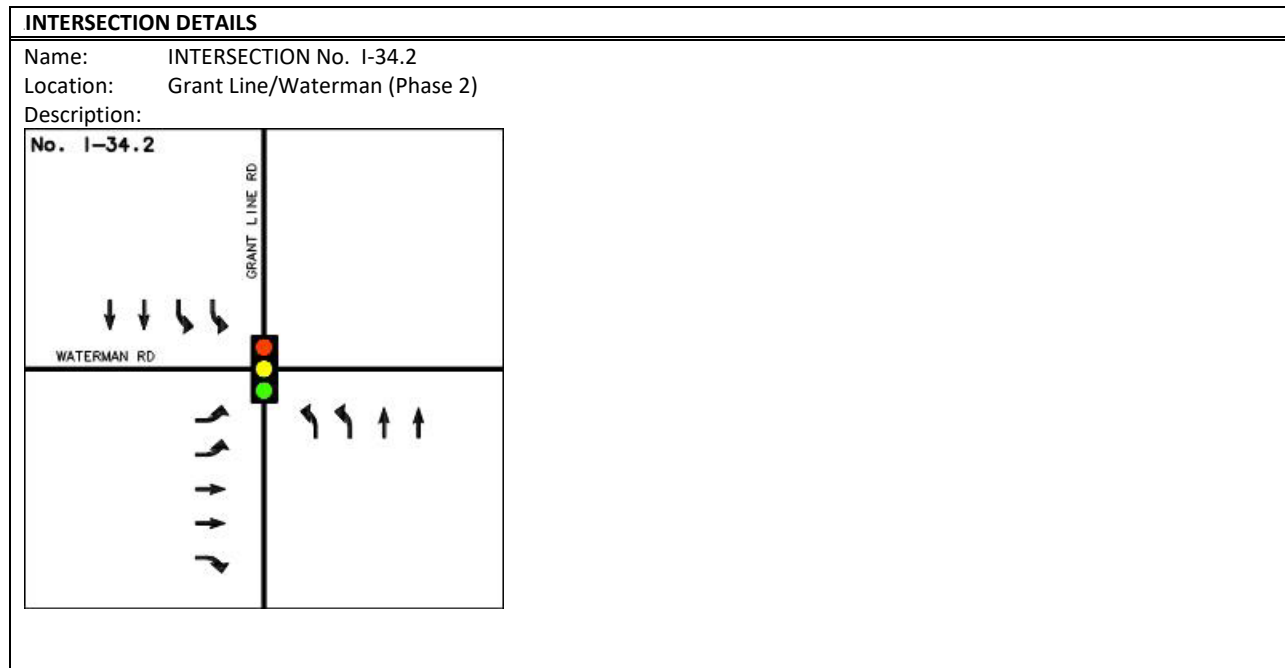
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-34.2					
Location:	Grant Line/Waterman (Phase 2)					
Description:	Expand Intersection to 4X6 as a widening intersection. The East leg is outside city jurisdiction.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
South	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
East	-			Minor Arterial	30	5.5" HMA on 21" AB
West	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,040	\$61,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$61,200.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,100	\$99,000.00
3.2	AGGREGATE BASE	CY	\$60.00	1,600	\$96,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$195,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



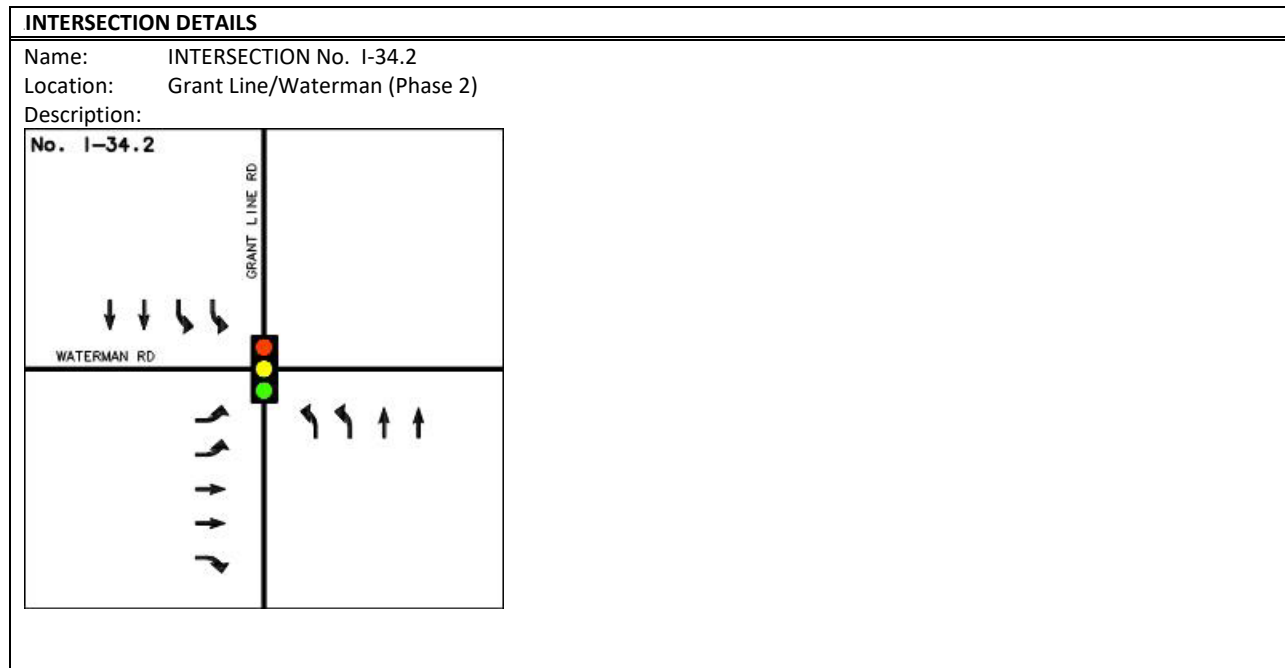
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$25,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$25,700.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$281,900.00
	CONTINGENCY: 20%	→ \$56,400.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$338,300.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$50,800.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$33,900.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$84,700.00</b>

**TOTAL PROJECT COST \*: \$423,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$6,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$6,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$10,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$10,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$17,000.00**

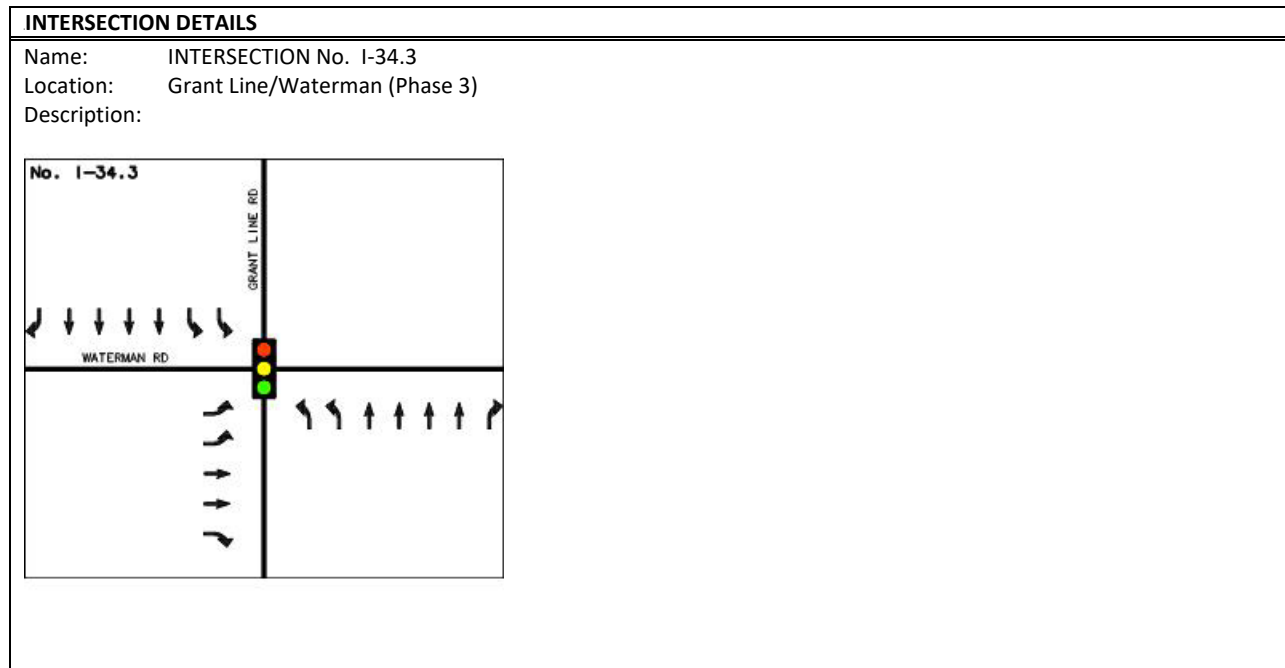
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-34.3					
Location:	Grant Line/Waterman (Phase 3)					
Description:	Widen intersection to 4x8. The East leg is outside city jurisdiction.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
South	Grant Line Rd			Major Arterial	450	6.5" HMA on 23" AB
East	-			Minor Arterial	30	5.5" HMA on 21" AB
West	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,940	\$148,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$148,200.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,240	\$201,600.00
3.2	AGGREGATE BASE	CY	\$60.00	3,920	\$235,200.00
3.3	SIDEWALK	SF	\$12.00	13,500	\$162,000.00
3.4	CURB & GUTTER	LF	\$45.00	2,250	\$101,250.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$700,050.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$84,900.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$84,900.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$933,150.00
	CONTINGENCY: 20%	→ \$186,700.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,119,850.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-34.3
Location:	Grant Line/Waterman (Phase 3)
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$168,000.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$112,000.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$280,000.00</b>

**TOTAL PROJECT COST \*: \$1,399,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$112,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$112,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$33,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$33,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$145,600.00**

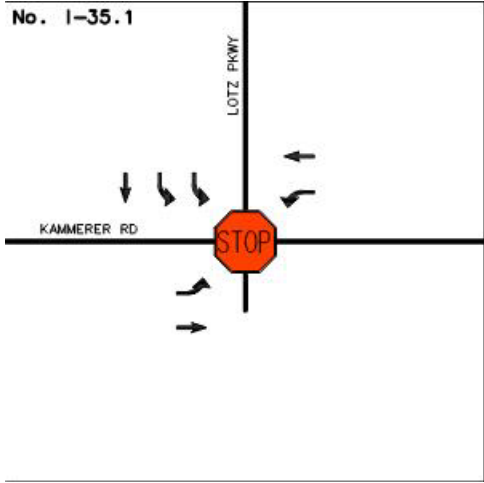
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-35.1					
Location:	Kammerer Road / Lotz Parkway (Phase 1)					
Description:	Install side-street stop control for a new 2x2 intersection. The South leg is outside city jurisdiction so it only requires curb returns. Roadway raised 7' from existing grade.					
<p><b>No. I-35.1</b></p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
South	-			Minor Arterial	30	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	745	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	920	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,080	\$92,400.00
1.2	IMPORT BORROW	CY	\$15.00	67,500	\$1,012,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$1,104,900.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	2,115	\$391,275.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$391,275.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,730	\$155,700.00
3.2	AGGREGATE BASE	CY	\$60.00	2,280	\$136,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	4,290	\$72,930.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$365,430.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-35.1
Location:	Kammerer Road / Lotz Parkway (Phase 1)
Description:	<b>No. I-35.1</b>
	

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$28,800.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$189,100.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$189,100.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,079,505.00
	CONTINGENCY: 20%	→ \$416,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,495,505.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-35.1
Location:	Kammerer Road / Lotz Parkway (Phase 1)
Description:	<b>No. I-35.1</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$374,400.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$249,600.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$624,000.00</b>

**TOTAL PROJECT COST \*: \$3,119,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$50,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$50,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$74,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$74,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$124,900.00**

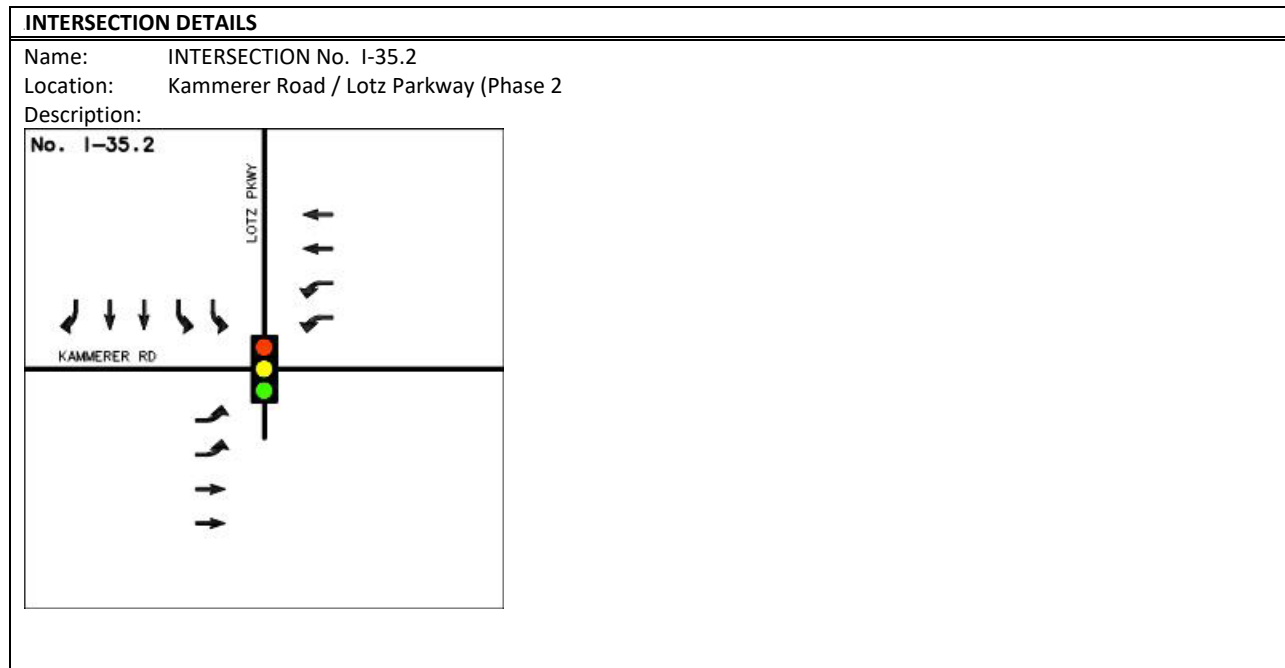
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-35.2					
Location:	Kammerer Road / Lotz Parkway (Phase 2)					
Description:	Install Traffic Signal for widened 4x4 intersection. The South leg is outside city jurisdiction so it only requires curb returns.					
<p>The diagram shows a 4x4 intersection. Kammerer Rd runs horizontally across the middle, and Lotz Pkwy runs vertically through the center. A traffic signal is located at the intersection. Arrows indicate traffic flow: Kammerer Rd has left, through, and right lanes in both directions. Lotz Pkwy has through and right-turn lanes in both directions. A curb return is shown on the south side of Kammerer Rd.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
South	-			Minor Arterial	30	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	745	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	920	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,620	\$198,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$198,600.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,930	\$263,700.00
3.2	AGGREGATE BASE	CY	\$60.00	5,180	\$310,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$574,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



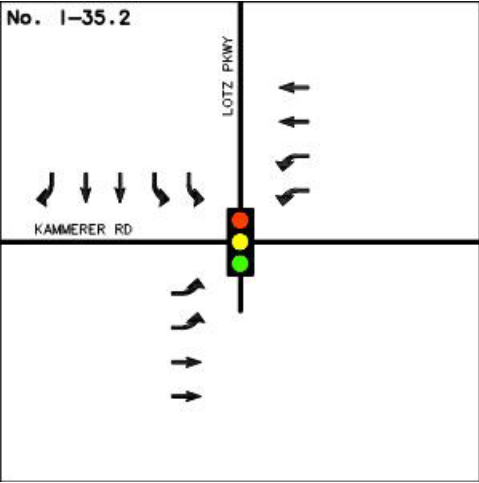
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	19	\$190,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	2,000	\$112,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$617,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$139,100.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$139,100.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,529,200.00
	CONTINGENCY: 20%	→ \$305,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,835,100.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-35.2
Location:	Kammerer Road / Lotz Parkway (Phase 2)
Description:	 <p>The diagram shows a T-intersection where Kammerer Rd (horizontal) meets Lotz Pkwy (vertical). Lotz Pkwy has a traffic signal with red, yellow, and green lights. Kammerer Rd has a traffic signal with a green light. Arrows indicate traffic flow: Lotz Pkwy has three lanes with arrows pointing north, and Kammerer Rd has three lanes with arrows pointing south. The intersection is labeled 'No. I-35.2'.</p>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$275,300.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$183,600.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$458,900.00</b>

**TOTAL PROJECT COST \*: \$2,294,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$36,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$36,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$55,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$55,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$91,900.00**

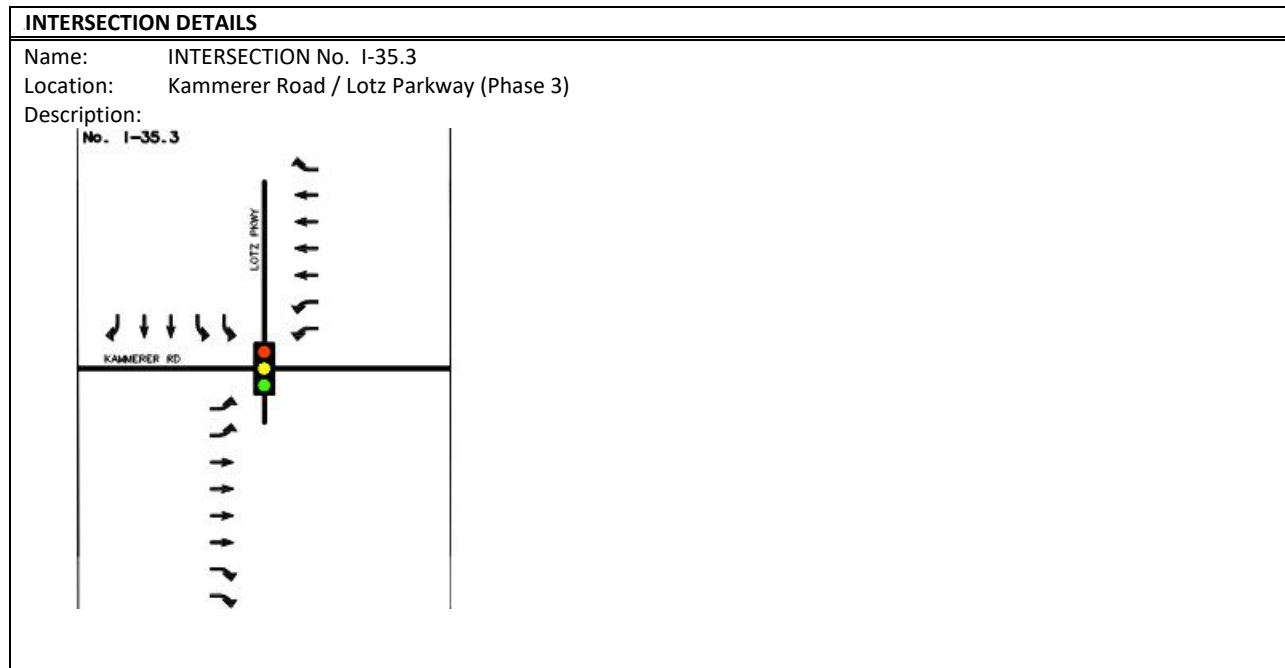
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-35.3					
Location:	Kammerer Road / Lotz Parkway (Phase 3)					
Description:	Expand Intersection to 4X8 as a widening intersection. The South leg is outside city jurisdiction so it only requires curb returns.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
South	-			Minor Arterial	30	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	745	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	920	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	13,520	\$405,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$405,600.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	5,690	\$512,100.00
3.2	AGGREGATE BASE	CY	\$60.00	11,400	\$684,000.00
3.3	SIDEWALK	SF	\$12.00	44,430	\$533,160.00
3.4	CURB & GUTTER	LF	\$45.00	12,498	\$562,410.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,291,670.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



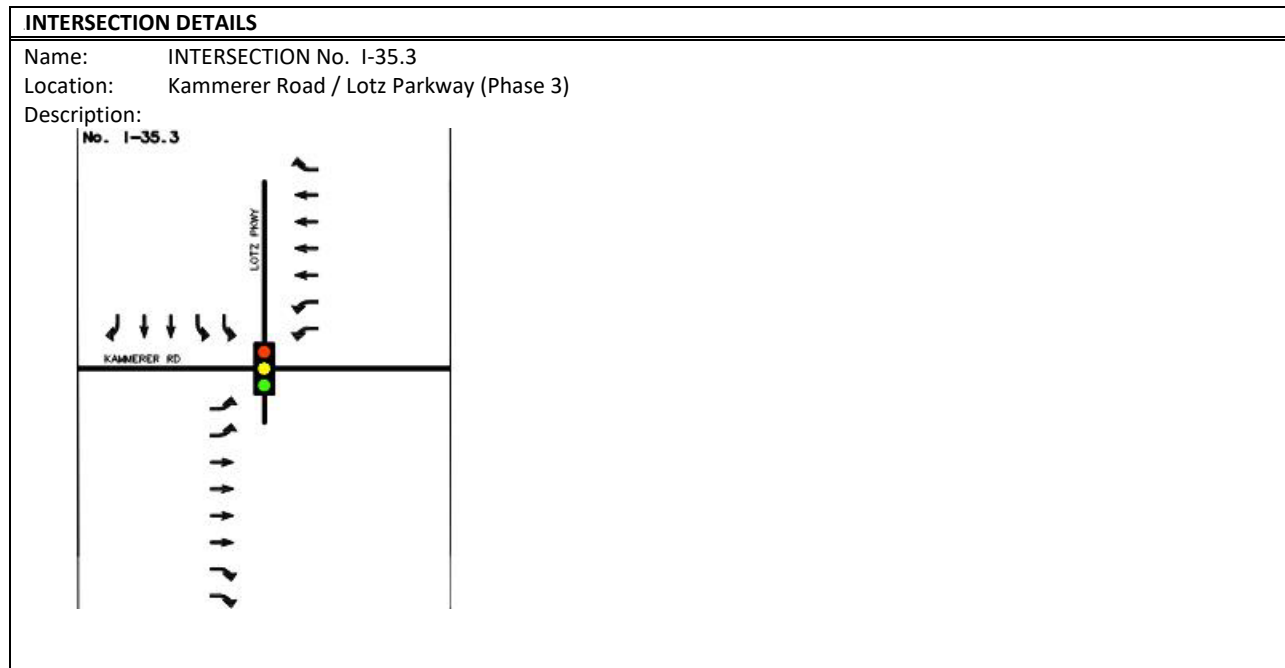
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$269,800.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$269,800.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,967,070.00
	CONTINGENCY: 20%	→ \$593,500.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$3,560,570.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$534,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$356,100.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$890,200.00</b>

**TOTAL PROJECT COST \*: \$4,450,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$356,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$356,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$106,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$106,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$463,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

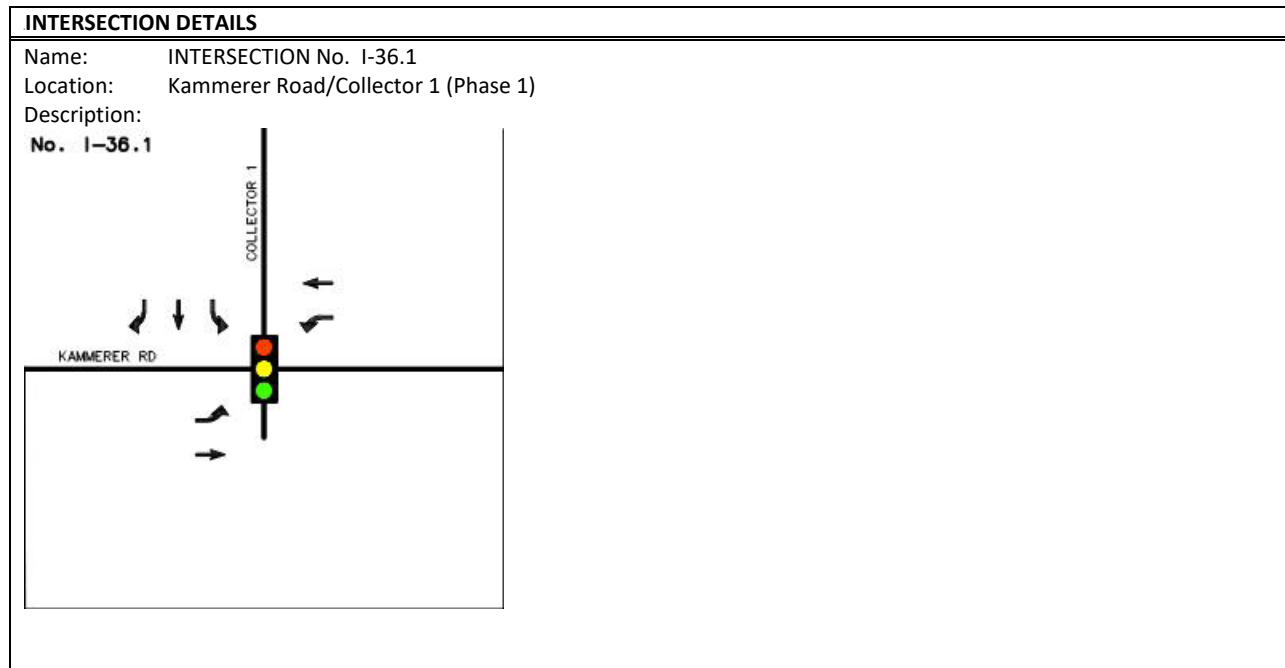
<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-36.1					
Location:	Kammerer Road/Collector 1 (Phase 1)					
Description:	Install Traffic Signal for a new 2x2 intersection. The South leg is outside city jurisdiction so it only requires curb returns. Roadway raised 7' from existing grade.					
<b>No. I-36.1</b>	<p>The diagram shows a vertical road labeled 'COLLECTOR 1' intersecting a horizontal road labeled 'KAMMERER RD'. A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound on Collector 1, southbound on Collector 1, eastbound on Kammerer Rd, and westbound on Kammerer Rd. The signal has a red light on top and a green light on the bottom.</p>					
<b>Leg</b>	<b>Rdwy Name</b>	<b>Pvmt Condition</b>	<b>Present Rdwy Class</b>	<b>Future Rdwy Class</b>	<b>Length</b>	<b>Pavement Section</b>
North	Collector 1			Collector	450	4" HMA on 16" AB
South	-			Collector	30	4" HMA on 16" AB
East	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	550	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,780	\$83,400.00
1.2	IMPORT BORROW	CY	\$15.00	44,500	\$667,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$750,900.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,500	\$277,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$277,500.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,230	\$110,700.00
3.2	AGGREGATE BASE	CY	\$60.00	1,990	\$119,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,060	\$52,020.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$282,120.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



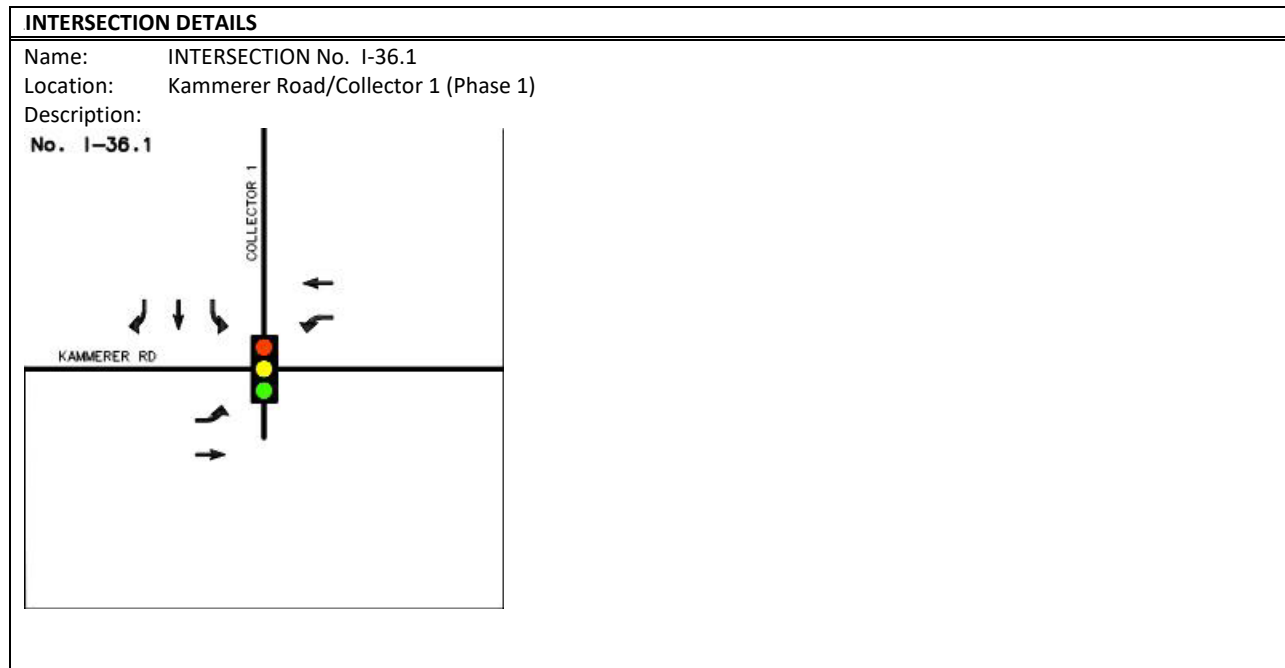
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	4,440	\$44,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$415,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$172,600.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$172,600.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,898,520.00
	CONTINGENCY: 20%	→ \$379,800.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,278,320.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$341,800.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$227,900.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$569,700.00</b>

**TOTAL PROJECT COST \*: \$2,848,100.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$227,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$227,900.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$68,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$68,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$296,300.00**

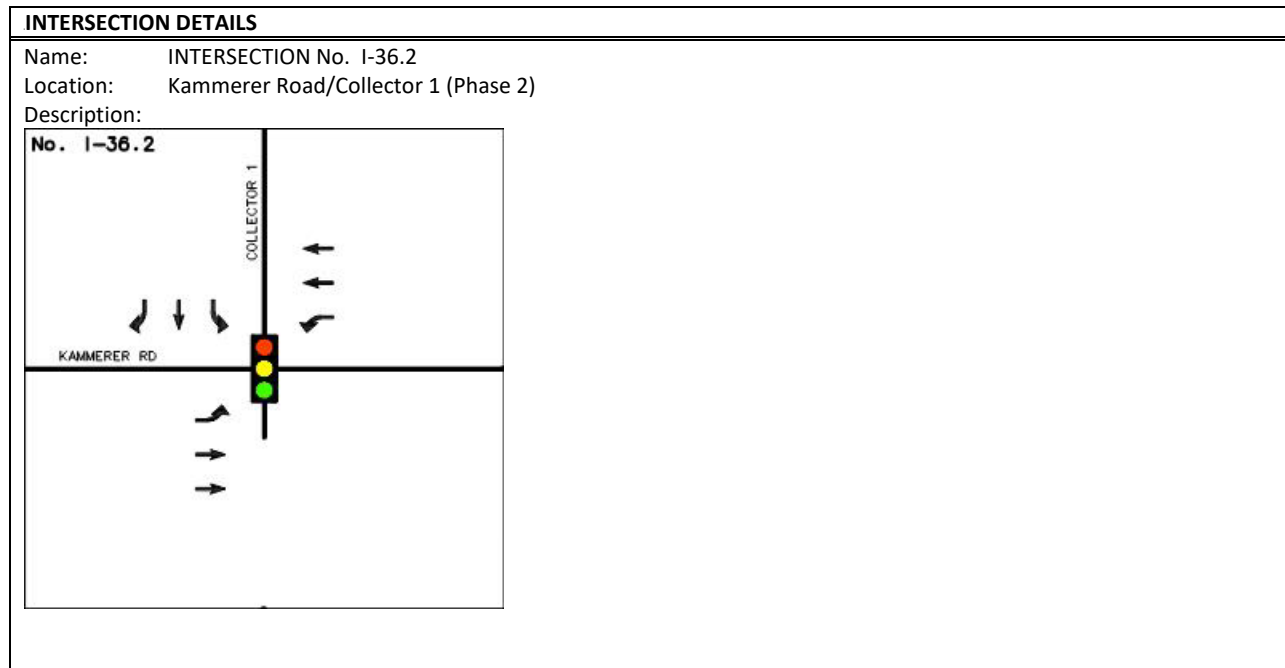
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-36.2					
Location:	Kammerer Road/Collector 1 (Phase 2)					
Description:	Expand Intersection to 2X4 as a widening intersection. The South leg is outside city jurisdiction so it only requires curb returns.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Collector 1			Collector	450	4" HMA on 16" AB
South	-			Collector	30	4" HMA on 16" AB
East	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	550	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,650	\$79,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$79,500.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,190	\$107,100.00
3.2	AGGREGATE BASE	CY	\$60.00	2,070	\$124,200.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$231,300.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



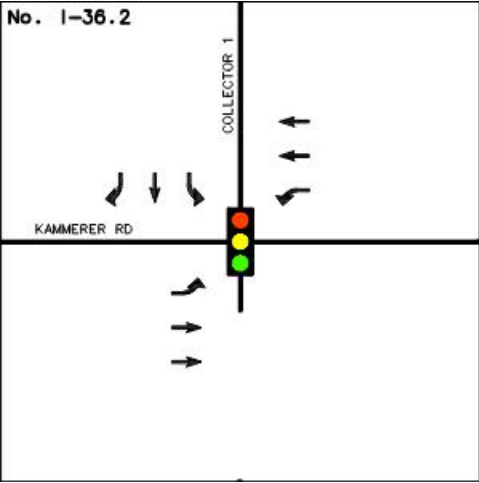
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	13	\$130,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$130,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$44,100.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$44,100.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$484,900.00
	CONTINGENCY: 20%	→ \$97,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$581,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-36.2
Location:	Kammerer Road/Collector 1 (Phase 2)
Description:	 <p>The diagram shows a vertical road labeled 'COLLECTOR 1' intersecting a horizontal road labeled 'KAMMERER RD'. A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound on Collector 1, southbound on Collector 1, westbound on Kammerer Rd, and eastbound on Kammerer Rd. The intersection is labeled 'No. I-36.2'.</p>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$87,300.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$58,200.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$145,500.00</b>

**TOTAL PROJECT COST \*: \$727,400.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$11,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$11,700.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$17,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$17,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$29,200.00**

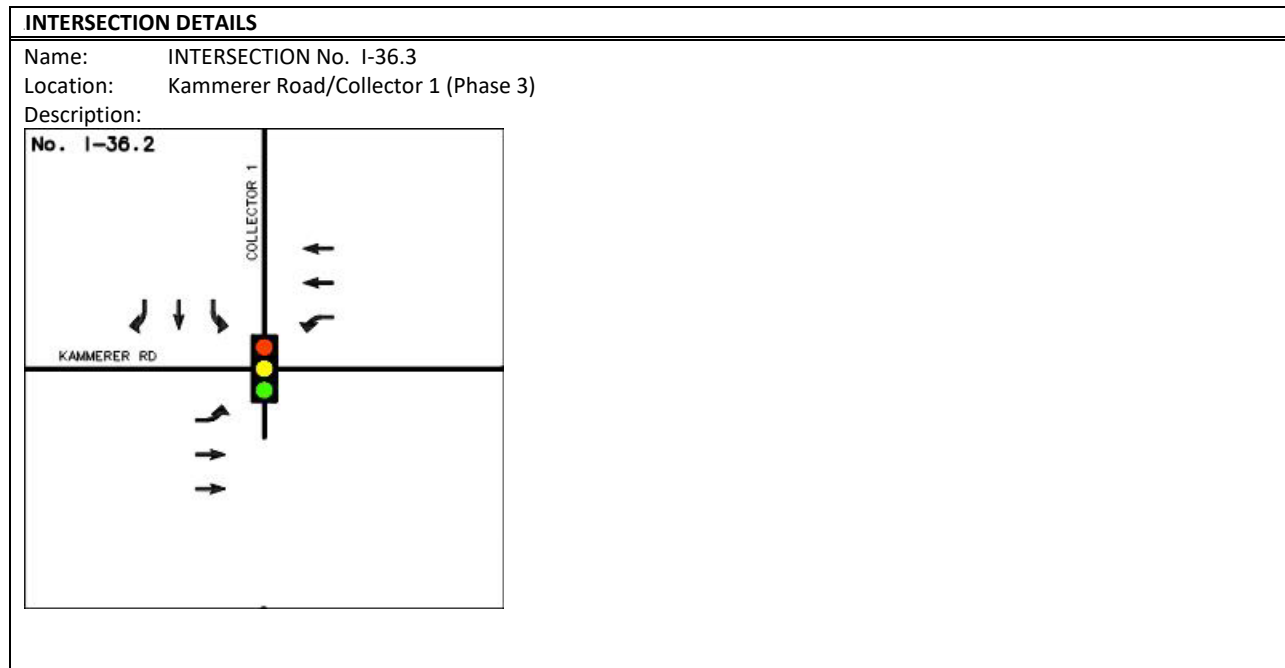
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>							
Name:	INTERSECTION No. I-36.3						
Location:	Kammerer Road/Collector 1 (Phase 3)						
Description:	Expand Intersection to 2X8 as a widening intersection. The South leg is outside city jurisdiction so it only requires curb returns.						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>	
North	Collector 1			Collector	450	4" HMA on 16" AB	
South	-			Collector	30	4" HMA on 16" AB	
East	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB	
West	Kammerer Rd			Major Arterial	550	8" HMA on 28" AB	

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	9,350	\$280,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$280,500.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,610	\$324,900.00
3.2	AGGREGATE BASE	CY	\$60.00	7,460	\$447,600.00
3.3	SIDEWALK	SF	\$12.00	31,800	\$381,600.00
3.4	CURB & GUTTER	LF	\$45.00	10,272	\$462,240.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,616,340.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$189,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$189,700.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,086,540.00
	CONTINGENCY: 20%	→ \$417,400.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,503,940.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-36.3
Location:	Kammerer Road/Collector 1 (Phase 3)
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$375,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$250,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$626,000.00</b>

**TOTAL PROJECT COST \*: \$3,130,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$50,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$50,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$75,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$75,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$125,300.00**



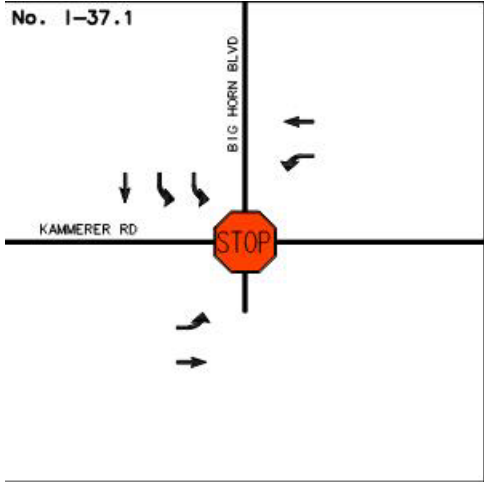
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-37.1					
Location:	Kammerer Road / Big Horn Boulevard (Phase 1)					
Description:	Install side-street stop control 2X2 for new intersection. The South leg is outside city jurisdiction so it only require curb returns. Roadway raised 7' from existing grade.					
<p><b>No. I-37.1</b></p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	-			Minor Arterial	30	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	845	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	695	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,930	\$87,900.00
1.2	IMPORT BORROW	CY	\$15.00	53,700	\$805,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$893,400.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,990	\$368,150.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$368,150.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,590	\$143,100.00
3.2	AGGREGATE BASE	CY	\$60.00	2,160	\$129,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	4,040	\$68,680.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$341,380.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-37.1
Location:	Kammerer Road / Big Horn Boulevard (Phase 1)
Description:	<p><b>No. I-37.1</b></p> 

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$28,800.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$163,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$163,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,794,930.00
	CONTINGENCY: 20%	→ \$359,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,153,930.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-37.1
Location:	Kammerer Road / Big Horn Boulevard (Phase 1)
Description:	No. I-37.1

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$323,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$215,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$538,500.00</b>

**TOTAL PROJECT COST \*: \$2,692,500.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	24,912	\$56,100.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	900	\$36,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$9,210.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$101,310.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$43,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$43,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$64,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$64,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$209,200.00**

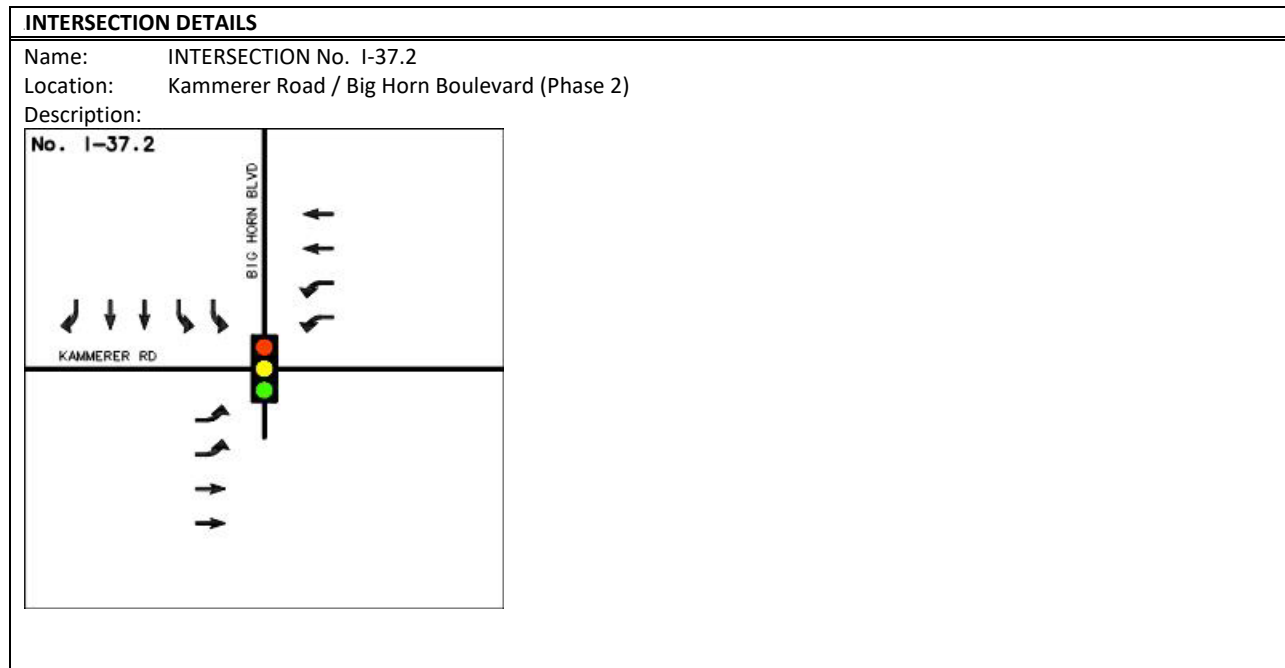
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-37.2					
Location:	Kammerer Road / Big Horn Boulevard (Phase 2)					
Description:	Install Traffic Signal for widened 4x4 intersection. The South leg is outside city jurisdiction so it only requires curb returns.					
<p>The diagram shows a 4x4 intersection. Kammerer Rd runs horizontally across the middle, and Big Horn Blvd runs vertically through the center. A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound on Big Horn Blvd, southbound on Big Horn Blvd, eastbound on Kammerer Rd, and westbound on Kammerer Rd. The signal is currently showing red for northbound and southbound, and green for eastbound and westbound.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	-			Minor Arterial	30	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	845	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	695	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,320	\$189,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$189,600.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,790	\$251,100.00
3.2	AGGREGATE BASE	CY	\$60.00	4,940	\$296,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$547,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



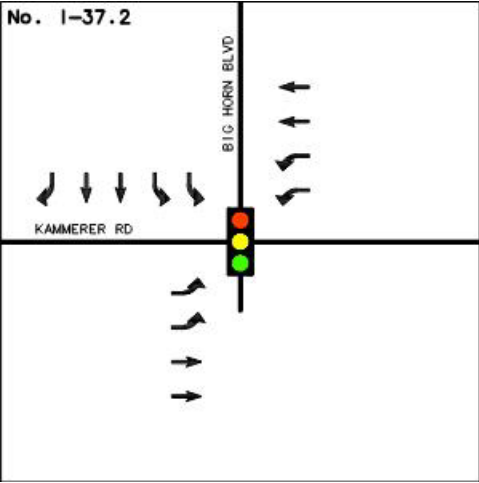
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	18	\$180,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,500	\$84,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$579,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$131,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$131,700.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,447,800.00
	CONTINGENCY: 20%	→ \$289,600.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,737,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-37.2
Location:	Kammerer Road / Big Horn Boulevard (Phase 2)
Description:	 <p>The diagram shows a T-intersection where Kammerer Rd (horizontal) meets Big Horn Blvd (vertical). Kammerer Rd has four lanes with traffic signals. Big Horn Blvd has two lanes with traffic signals. Arrows indicate traffic flow: left and right turns and through traffic on Kammerer Rd, and through traffic on Big Horn Blvd. A traffic signal is shown at the intersection with red, yellow, and green lights.</p>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$260,700.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$173,800.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$434,500.00</b>

**TOTAL PROJECT COST \*: \$2,171,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$173,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$173,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$52,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$52,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$226,000.00**

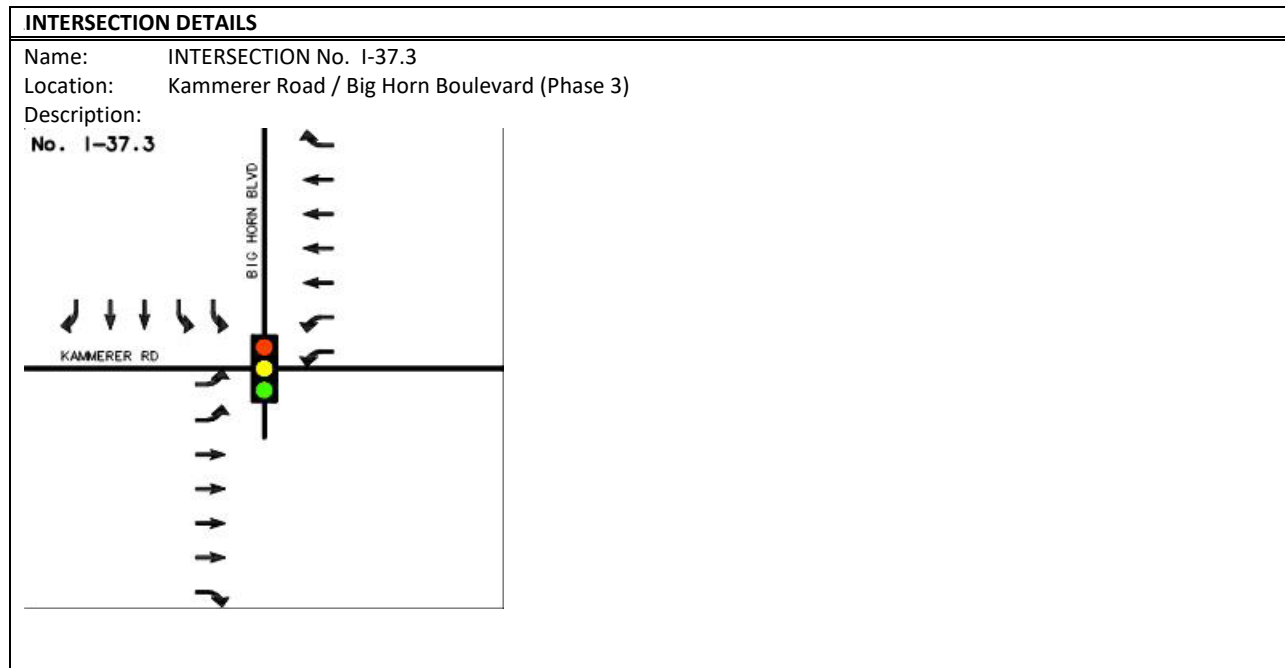
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-37.3					
Location:	Kammerer Road / Big Horn Boulevard (Phase 3)					
Description:	Expand Intersection to 4X6 as a widening intersection. The South leg is outside city jurisdiction so it only requires curb returns.					
<p><b>No. I-37.3</b></p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Big Horn Blvd			Minor Arterial	450	5.5" HMA on 21" AB
South	-			Minor Arterial	30	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	845	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	695	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	8,980	\$269,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$269,400.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,340	\$300,600.00
3.2	AGGREGATE BASE	CY	\$60.00	7,220	\$433,200.00
3.3	SIDEWALK	SF	\$12.00	42,130	\$505,560.00
3.4	CURB & GUTTER	LF	\$45.00	10,978	\$494,010.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,733,370.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$200,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$200,300.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,203,070.00
	CONTINGENCY: 20%	→ \$440,700.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,643,770.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-37.3
Location:	Kammerer Road / Big Horn Boulevard (Phase 3)
Description:	No. I-37.3

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$396,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$264,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$661,000.00</b>

**TOTAL PROJECT COST \*: \$3,304,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$52,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$52,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$79,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$79,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$132,300.00**

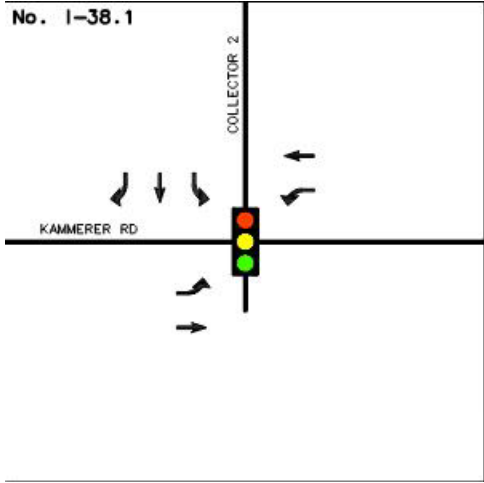
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-38.1					
Location:	Kammerer Road/Collector 2 (Phase 1)					
Description:	Install Traffic Signal for new 2x4 intersection. The South leg is outside city jurisdiction so it only requires curb returns. Roadway raised 7' from existing grade.					
<p><b>No. I-38.1</b></p> <p>The diagram shows a vertical road labeled 'COLLECTOR 2' and a horizontal road labeled 'KAMMERER RD'. A traffic signal is located at the intersection. Arrows indicate traffic flow: northbound on Collector 2, southbound on Collector 2, eastbound on Kammerer Rd, and westbound on Kammerer Rd. The signal has a red light on top and a green light on the bottom.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Collector 2			Collector	450	4" HMA on 16" AB
South	-			Collector	30	4" HMA on 16" AB
East	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,790	\$83,700.00
1.2	IMPORT BORROW	CY	\$15.00	38,100	\$571,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$655,200.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,450	\$268,250.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$268,250.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,350	\$121,500.00
3.2	AGGREGATE BASE	CY	\$60.00	1,980	\$118,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,960	\$50,320.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$290,620.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-38.1
Location:	Kammerer Road/Collector 2 (Phase 1)
Description:	<p><b>No. I-38.1</b></p> 

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	4,800	\$48,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$419,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$163,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$163,400.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,796,470.00
	CONTINGENCY: 20%	→ \$359,300.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,155,770.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-38.1
Location:	Kammerer Road/Collector 2 (Phase 1)
Description:	<b>No. I-38.1</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$323,400.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$215,600.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$539,000.00</b>

**TOTAL PROJECT COST \*: \$2,694,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	16,424	\$152,000.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	900	\$108,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$26,000.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$286,000.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$215,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$215,600.00</b>

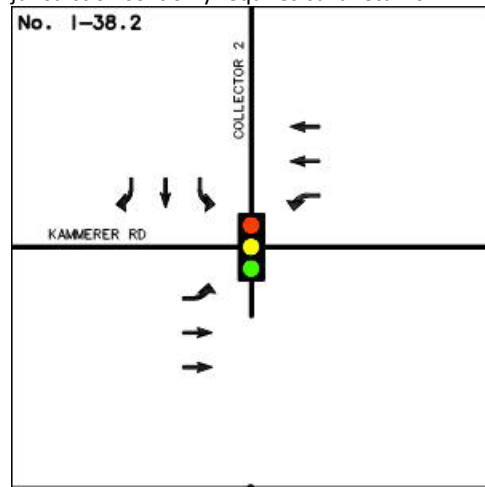
<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$64,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$64,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$566,300.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

**INTERSECTION DETAILS**

Name: INTERSECTION No. I-38.2  
 Location: Kammerer Rod/Collector 2 (Phase 2)  
 Description: Expand Intersection to 2X4 as a widening intersection. The South leg is outside city jurisdiction so it only requires curb returns.

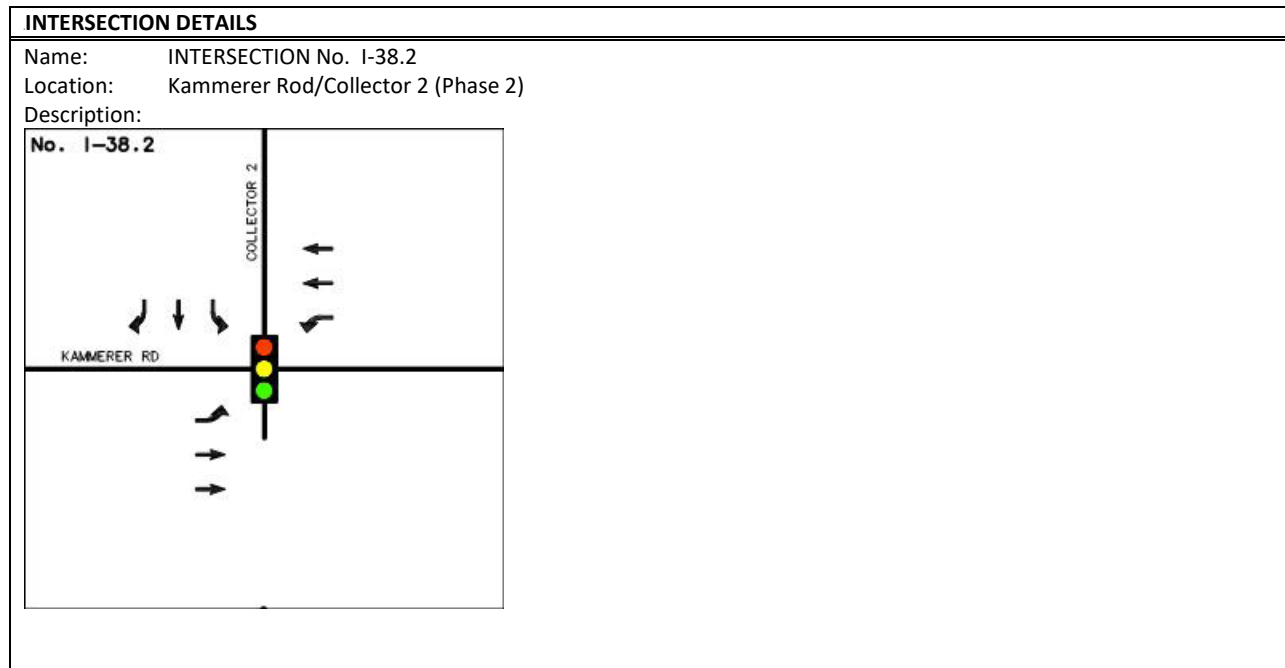


Leg	Rdwy Name	Pvmt Condition	Present Rdwy Class	Future Rdwy Class	Length	Pavement Section
North	Collector 2			Collector	450	4" HMA on 16" AB
South	-			Collector	30	4" HMA on 16" AB
East	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,810	\$84,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$84,300.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,250	\$112,500.00
3.2	AGGREGATE BASE	CY	\$60.00	2,190	\$131,400.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$243,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



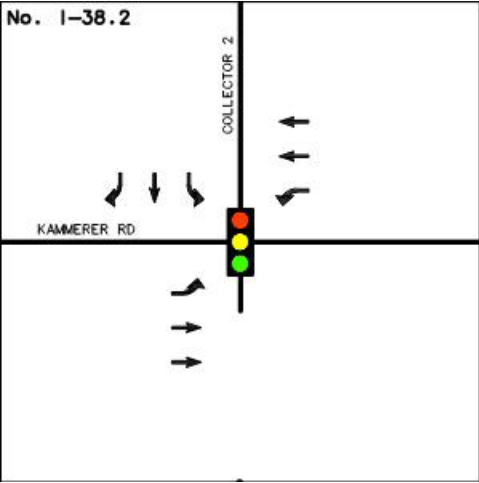
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	13	\$130,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$130,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$45,900.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$45,900.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$504,100.00
	CONTINGENCY: 20%	→ \$100,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$605,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-38.2
Location:	Kammerer Rod/Collector 2 (Phase 2)
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$90,800.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$60,500.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$151,300.00</b>

**TOTAL PROJECT COST \*: \$756,300.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$12,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$12,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$18,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$18,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$30,300.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

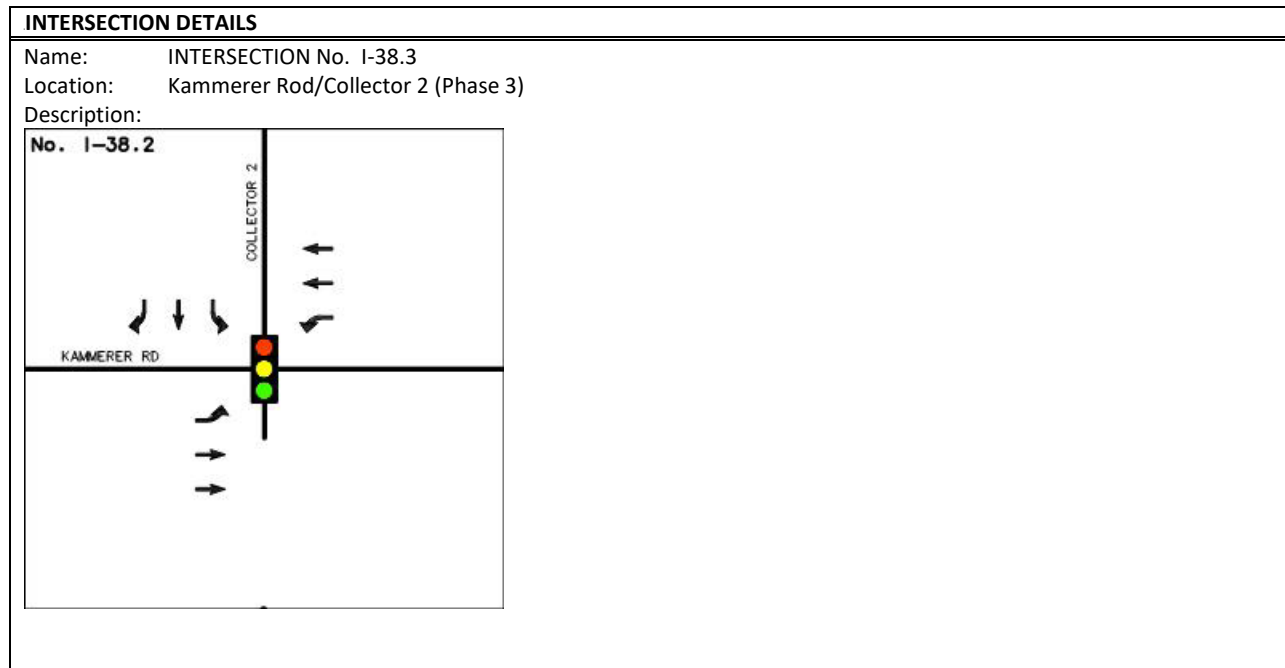
<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-38.3					
Location:	Kammerer Rod/Collector 2 (Phase 3)					
Description:	Expand Intersection to 2X6 as a widening intersection. The South leg is outside city jurisdiction so it only requires curb returns.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Collector 2			Collector	450	4" HMA on 16" AB
South	-			Collector	30	4" HMA on 16" AB
East	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	500	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,040	\$181,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$181,200.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,200	\$198,000.00
3.2	AGGREGATE BASE	CY	\$60.00	4,870	\$292,200.00
3.3	SIDEWALK	SF	\$12.00	32,500	\$390,000.00
3.4	CURB & GUTTER	LF	\$45.00	7,588	\$341,460.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,221,660.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$140,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$140,300.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
SUBTOTAL CONSTRUCTION COSTS:	\$1,543,160.00
CONTINGENCY: 20%	→ \$308,700.00
<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,851,860.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-38.3
Location:	Kammerer Rod/Collector 2 (Phase 3)
Description:	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$277,800.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$185,200.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$463,000.00</b>

**TOTAL PROJECT COST \*: \$2,314,900.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

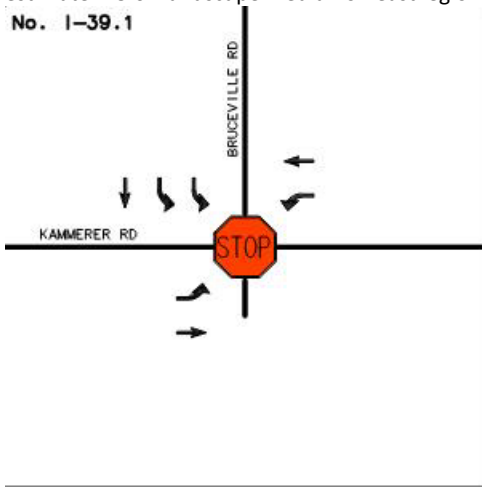
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$37,100.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$37,100.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$55,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$55,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$92,700.00**

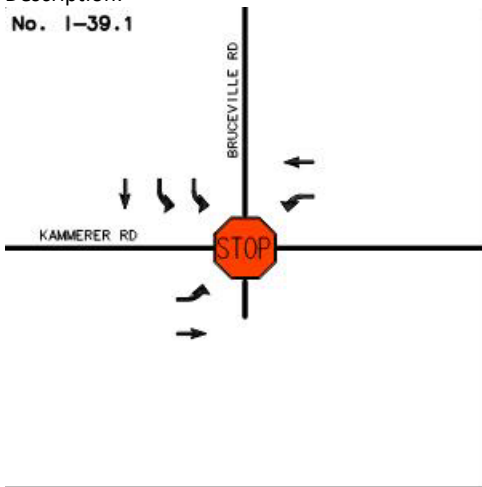
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-39.1					
Location:	Kammerer Road / Bruceville Road (Phase 1)					
Description:	Install all-way stop control 2X2 for new intersection. North Leg cost is included with Bridge estimate B-5.0. Landscape median on east leg only. Roadway raised 7' from existing grade.					
<b>No. I-39.1</b>						
<b>Leg</b>	<b>Rdwy Name</b>	<b>Pvmt Condition</b>	<b>Present Rdwy Class</b>	<b>Future Rdwy Class</b>	<b>Length</b>	<b>Pavement Section</b>
North	Bruceville Road			Minor Arterial	75	5.5" HMA on 21" AB
South	Bruceville Road			Minor Arterial	450	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	645	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	450	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	2,500	\$75,000.00
1.2	IMPORT BORROW	CY	\$15.00	44,100	\$661,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$736,500.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,170	\$216,450.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$216,450.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,470	\$132,300.00
3.2	AGGREGATE BASE	CY	\$60.00	1,900	\$114,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,240	\$55,080.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$301,380.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-39.1
Location:	Kammerer Road / Bruceville Road (Phase 1)
Description:	<b>No. I-39.1</b>
	

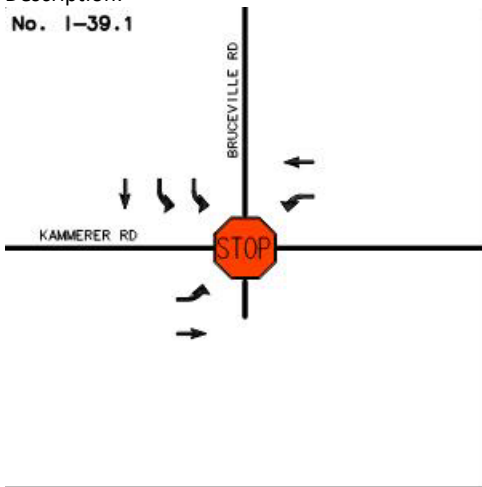
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$14,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$126,900.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$126,900.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
SUBTOTAL CONSTRUCTION COSTS:	\$1,395,630.00
CONTINGENCY: 20%	→ \$279,200.00
<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,674,830.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-39.1
Location:	Kammerer Road / Bruceville Road (Phase 1)
Description:	<b>No. I-39.1</b>
	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$251,300.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	15%	CON. COST	\$251,300.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$502,600.00</b>

**TOTAL PROJECT COST \*: \$2,177,500.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	179,425	\$403,800.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	900	\$36,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$43,980.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$483,780.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$33,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$33,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$50,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$50,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$567,600.00**

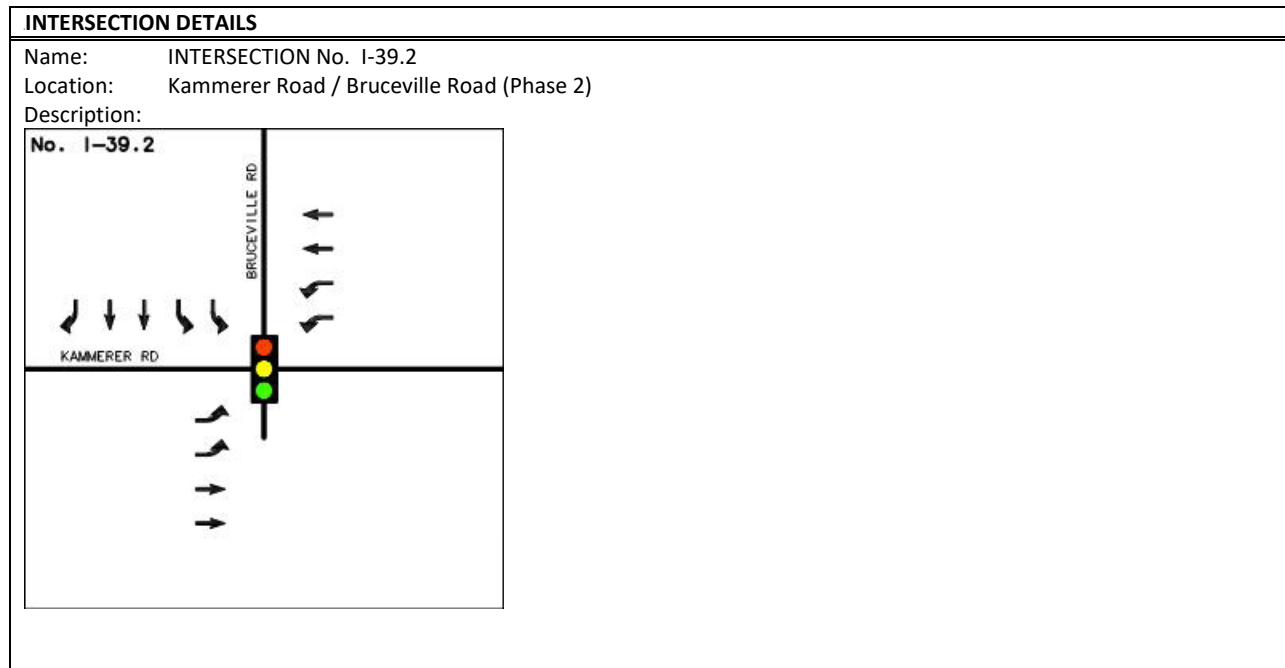
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-39.2					
Location:	Kammerer Road / Bruceville Road (Phase 2)					
Description:	Install Traffic Signal for widened 4X4 intersection. North Leg cost is included with Bridge estimate B-5.0.					
<p>The diagram shows a four-way intersection labeled 'No. I-39.2'. Kammerer Rd runs horizontally across the middle, and Bruceville Rd runs vertically through the center. A traffic signal is located at the intersection, with a red light on top and a green light on the bottom. Arrows indicate traffic flow: on Kammerer Rd, arrows point left and right; on Bruceville Rd, arrows point north and south. The intersection is labeled 'KAMMERER RD' and 'BRUCEVILLE RD'.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bruceville Road			Minor Arterial	75	5.5" HMA on 21" AB
South	Bruceville Road			Minor Arterial	450	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	645	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	450	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,470	\$164,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$164,100.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,410	\$216,900.00
3.2	AGGREGATE BASE	CY	\$60.00	4,280	\$256,800.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$473,700.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



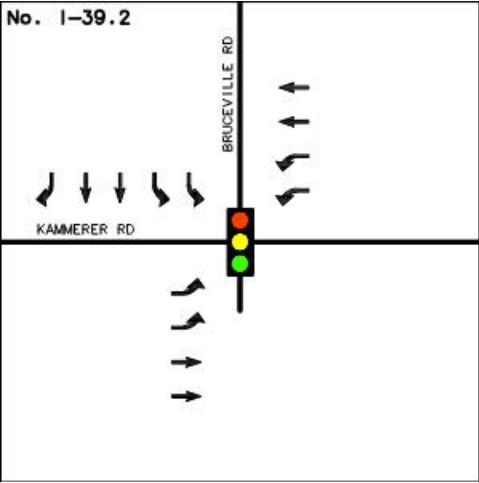
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	14	\$140,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,500	\$84,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$539,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$117,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$117,700.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,294,500.00
	CONTINGENCY: 20%	→ \$258,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,553,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-39.2
Location:	Kammerer Road / Bruceville Road (Phase 2)
Description:	 <p>The diagram shows a T-intersection where Kammerer Rd (horizontal) meets Bruceville Rd (vertical). Bruceville Rd has a traffic signal with red, yellow, and green lights. Kammerer Rd has four lanes with arrows indicating traffic flow. Bruceville Rd has three lanes with arrows indicating traffic flow. The intersection is labeled 'No. I-39.2'.</p>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$233,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	15%	CON. COST	\$233,100.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$466,200.00</b>

**TOTAL PROJECT COST \*: \$2,019,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$155,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$155,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$46,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$46,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$202,100.00**



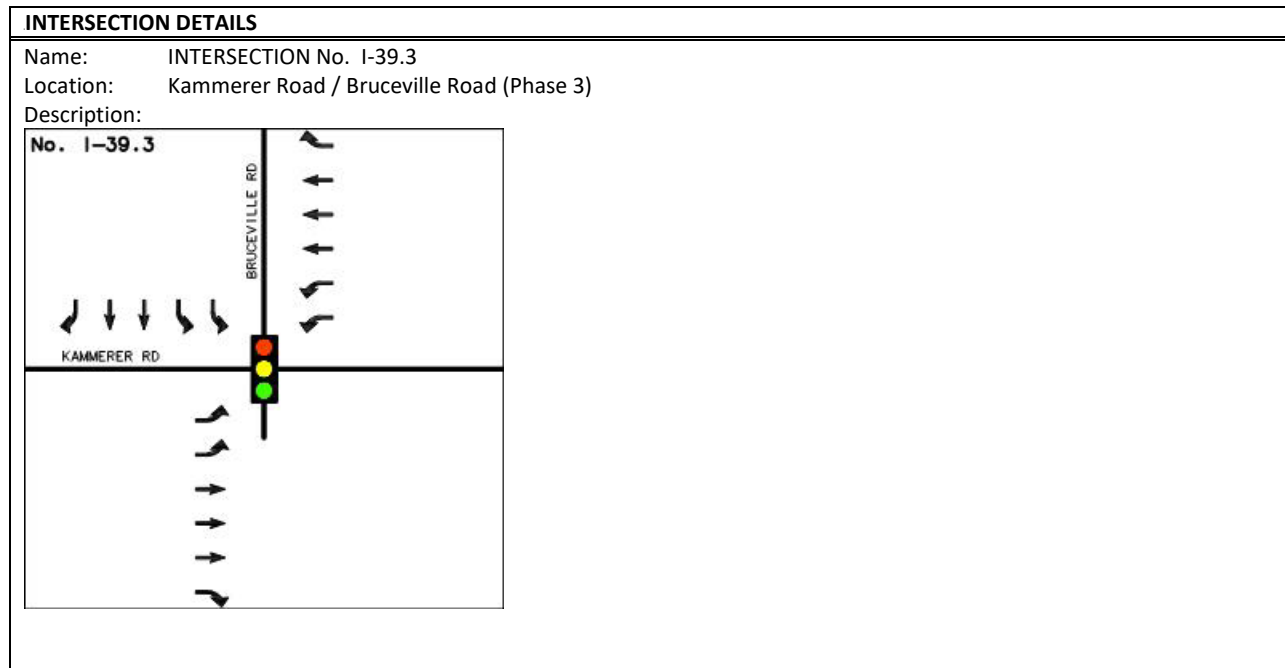
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-39.3					
Location:	Kammerer Road / Bruceville Road (Phase 3)					
Description:	Expand Intersection to 4X6 as a widening intersection. The South leg is outside city jurisdiction so it only requires curb returns.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Bruceville Road			Minor Arterial	75	5.5" HMA on 21" AB
South	Bruceville Road			Minor Arterial	450	5.5" HMA on 21" AB
East	Kammerer Rd			Major Arterial	645	8" HMA on 28" AB
West	Kammerer Rd			Major Arterial	450	8" HMA on 28" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,880	\$206,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$206,400.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,530	\$227,700.00
3.2	AGGREGATE BASE	CY	\$60.00	5,540	\$332,400.00
3.3	SIDEWALK	SF	\$12.00	34,590	\$415,080.00
3.4	CURB & GUTTER	LF	\$45.00	8,858	\$398,610.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,373,790.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



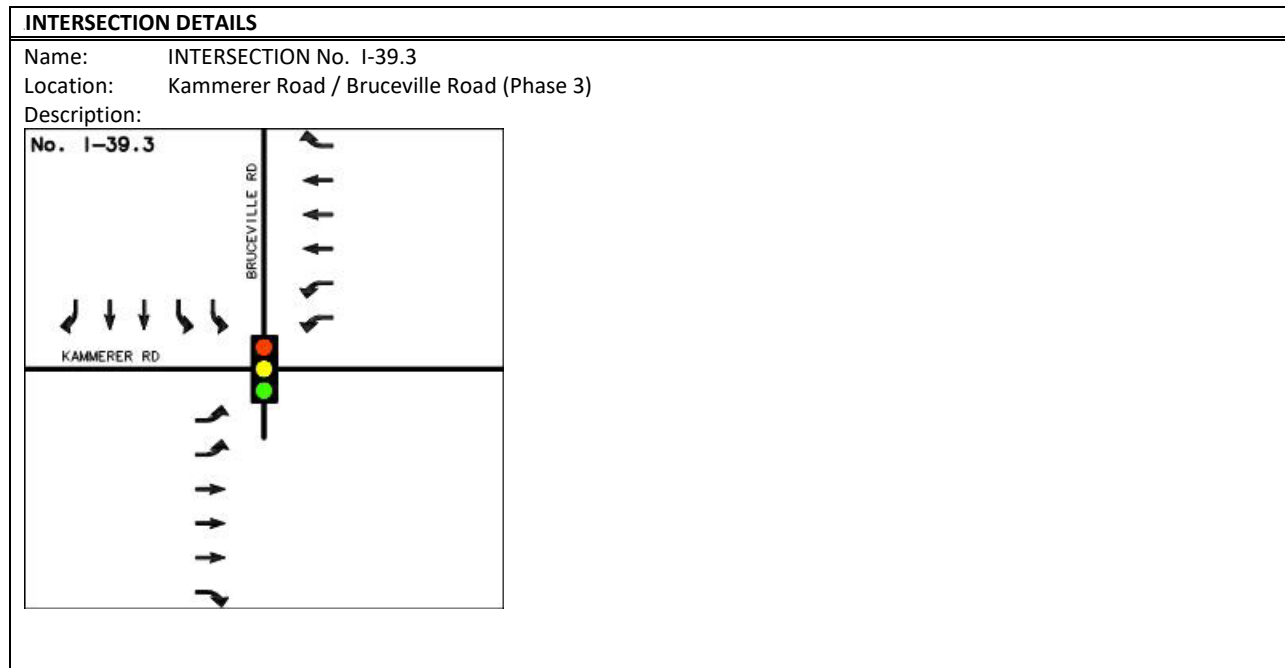
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$158,100.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$158,100.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,738,290.00
	CONTINGENCY: 20%	→ \$347,700.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,085,990.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$312,900.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	15%	CON. COST	\$312,900.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$625,800.00</b>

**TOTAL PROJECT COST \*: \$2,711,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$41,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$41,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$62,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$62,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$104,400.00**

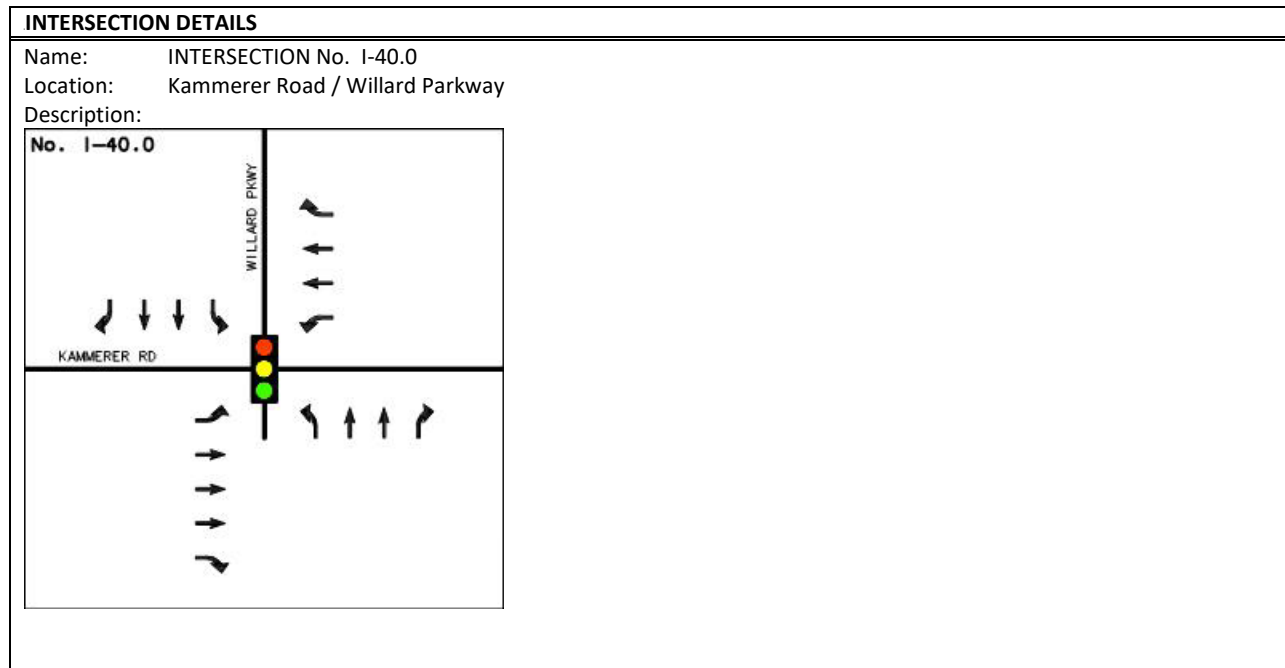
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-40.0					
Location:	Kammerer Road / Willard Parkway					
Description:	Install Traffic Signal at new 4x4 intersection. The South leg is outside city jurisdiction so it only requires curb returns. Roadway raised 7' from existing grade.					
<p>The diagram shows a 4x4 intersection. Kammerer Rd runs horizontally across the middle, and Willard Pkwy runs vertically through the center. A traffic signal is located at the intersection. Arrows indicate traffic flow: Northbound on Willard Pkwy (left turn, through, right turn), Southbound on Willard Pkwy (left turn, through, right turn), Eastbound on Kammerer Rd (left turn, through, right turn), and Westbound on Kammerer Rd (left turn, through, right turn). A curb return is shown on the south side of Kammerer Rd.</p>						
<b>Leg</b>	<b>Rdwy Name</b>	<b>Pvmt Condition</b>	<b>Present Rdwy Class</b>	<b>Future Rdwy Class</b>	<b>Length</b>	<b>Pavement Section</b>
North	Willard Parkway			Minor Arterial	450	5.5" HMA on 21" AB
South	-			Minor Arterial	30	5.5" HMA on 21" AB
East	Kammerer Rd			Minor Arterial	450	6.5" HMA on 23" AB
West	Kammerer Rd			Minor Arterial	450	6.5" HMA on 23" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	14,445	\$433,350.00
1.2	IMPORT BORROW	CY	\$15.00	40,400	\$606,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$1,039,350.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	5,370	\$483,300.00
3.2	AGGREGATE BASE	CY	\$60.00	10,450	\$627,000.00
3.3	SIDEWALK	SF	\$12.00	16,220	\$194,640.00
3.4	CURB & GUTTER	LF	\$45.00	1,680	\$75,600.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	720	\$12,240.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,392,780.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



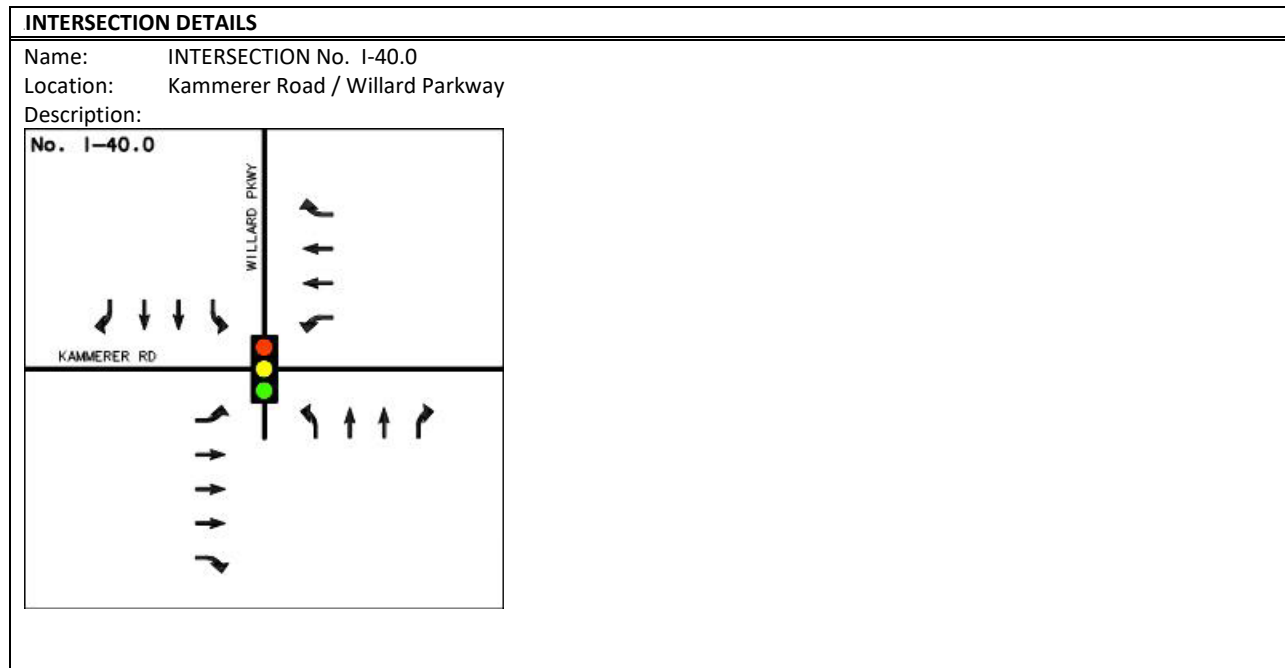
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	9	\$90,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,800	\$100,800.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$534,600.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$321,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$321,700.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$3,538,180.00
	CONTINGENCY: 20%	→ \$707,700.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$4,245,880.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$636,900.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	15%	CON. COST	\$636,900.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,273,800.00</b>

**TOTAL PROJECT COST \*: \$5,519,700.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

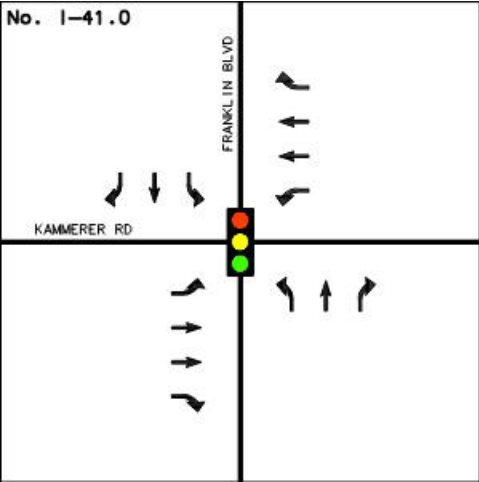
<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$85,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$85,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$127,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$127,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$212,400.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-41.0					
Location:	Kammerer Road / Franklin Boulevard					
Description:	Install Traffic Signal for new 2x4 intersection. In the existing condition, Kammerer Road has not been built and Franklin Blvd is uncontrolled and consists of 1 through lane. Roadway raised 7' from existing grade.					
 <p>The diagram shows a 2x4 intersection. Franklin Blvd runs north-south, and Kammerer Rd runs east-west. Franklin Blvd has a traffic signal with red, yellow, and green lights. Lane markings include left-turn arrows, through arrows, and right-turn arrows for both directions on Franklin Blvd. Kammerer Rd has left-turn arrows, through arrows, and right-turn arrows for both directions.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Franklin Blvd			Minor Arterial	450	4" HMA on 16" AB
South	Franklin Blvd			Residential	450	4" HMA on 16" AB
East	Kammerer Rd			Minor Arterial	450	6.5" HMA on 23" AB
West	Kammerer Rd			Minor Arterial	450	6.5" HMA on 23" AB

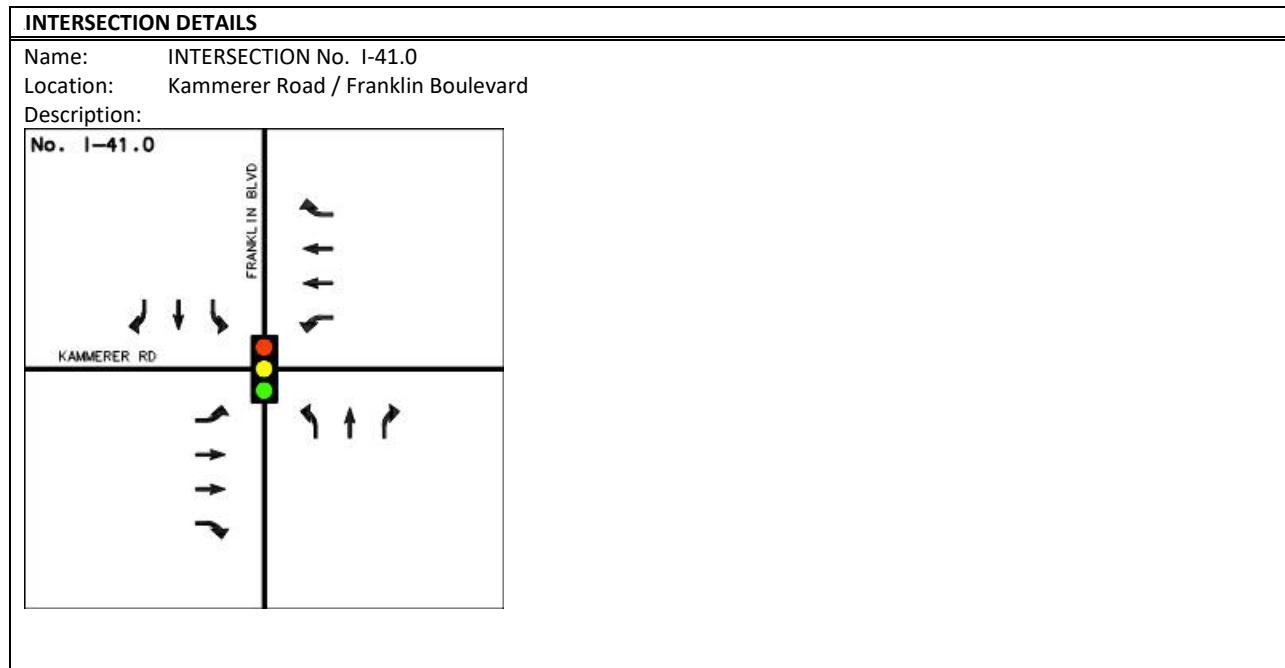
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	11,060	\$331,800.00
1.2	IMPORT BORROW	CY	\$15.00	34,100	\$511,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$843,300.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	4,370	\$393,300.00
3.2	AGGREGATE BASE	CY	\$60.00	7,770	\$466,200.00
3.3	SIDEWALK	SF	\$12.00	7,146	\$85,752.00
3.4	CURB & GUTTER	LF	\$45.00	1,685	\$75,825.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	360	\$6,120.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,027,200.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	9	\$90,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,800	\$100,800.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$520,200.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$272,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$272,400.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,996,100.00
	CONTINGENCY: 20%	→ \$599,300.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$3,595,400.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-41.0
Location:	Kammerer Road / Franklin Boulevard
Description:	
<p>The diagram shows a T-intersection where Kammerer Rd meets Franklin Blvd. Franklin Blvd is a north-south street with a traffic signal at the intersection. Kammerer Rd is an east-west street that terminates at Franklin Blvd. The traffic signal has a red light for northbound traffic and a green light for southbound traffic. Lane markings include left-turn, through, and right-turn lanes for both directions on Franklin Blvd, and a through lane for eastbound traffic on Kammerer Rd.</p>	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$539,400.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	15%	CON. COST	\$539,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,078,800.00</b>

**TOTAL PROJECT COST \*: \$4,674,200.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	171,050	\$384,900.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	840	\$33,600.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$41,850.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$460,350.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$72,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$72,000.00</b>

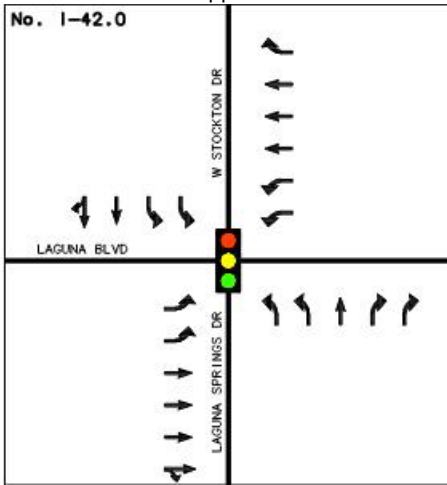
<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$107,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$107,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$640,300.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

**INTERSECTION DETAILS**

Name: INTERSECTION No. I-42.0  
 Location: Laguna Boulevard/Laguna Springs Drive  
 Description: Install Westbound-to-Northbound Right-Turn Lane and extend existing left turn pockets on west and east bound approaches. This cost came from the City of Elk grove Grant application

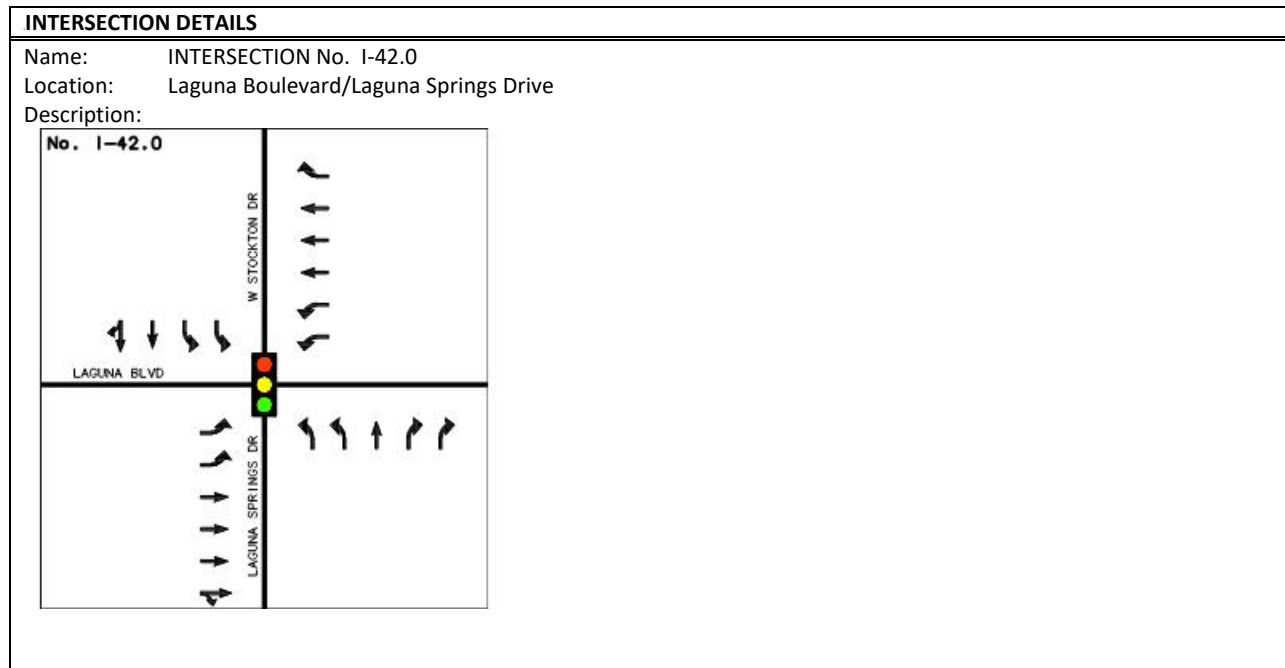


Leg	Rdwy Name	Pvmt Condition	Present Rdwy Class	Future Rdwy Class	Length	Pavement Section
North	W Stockton Blvd			Collector	450	4" HMA on 16" AB
South	Laguna Springs Dr			Collector	450	4" HMA on 16" AB
East	Laguna Blvd			Major Arterial	450	6.5" HMA on 23" AB
West	Laguna Blvd			Major Arterial	450	6.5" HMA on 23" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,430	\$42,900.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$42,900.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	450	\$83,250.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$83,250.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,020	\$91,800.00
3.2	AGGREGATE BASE	CY	\$60.00	1,140	\$68,400.00
3.3	SIDEWALK	SF	\$12.00	5,400	\$64,800.00
3.4	CURB & GUTTER	LF	\$45.00	900	\$40,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$265,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



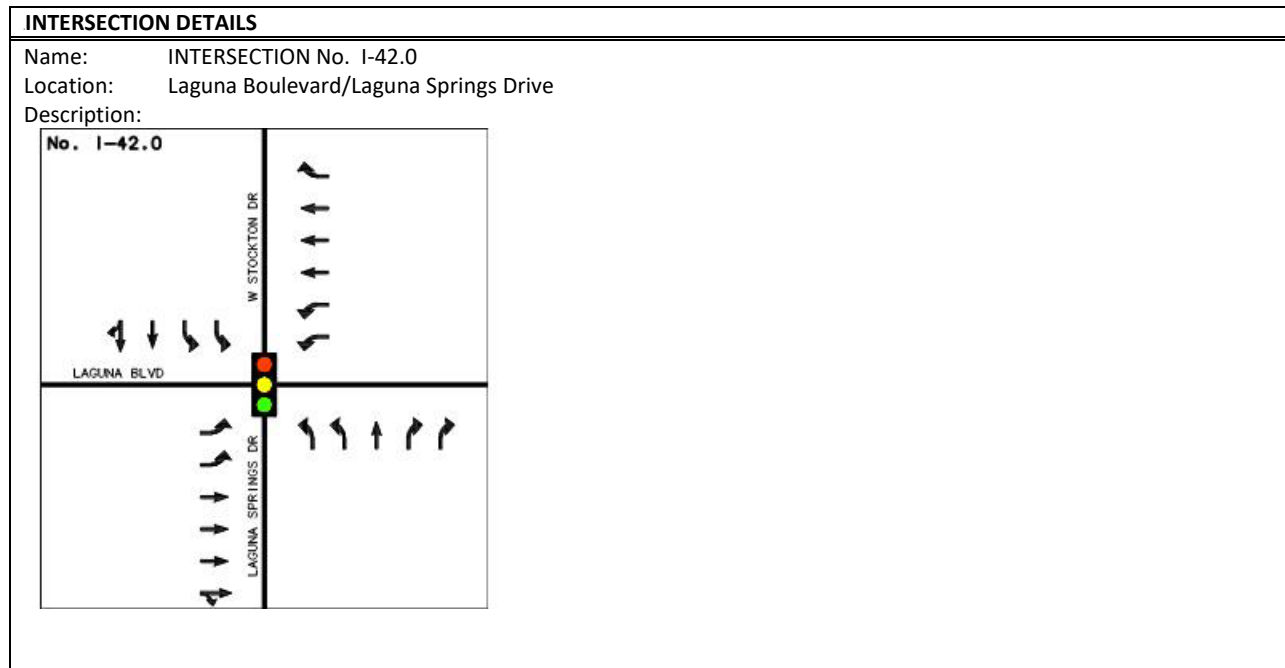
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	1	\$250,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	4	\$40,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$11.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$305,000.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$69,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$69,700.00</b>

6 STRUCTURES					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	5,000	\$750,000.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$750,000.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,516,350.00
	CONTINGENCY: 20%	→ \$303,300.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,819,650.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$273,000.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$182,000.00
8.3	CALTRANS COORDINATION	LS	3%	CON. COST	\$54,600.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$509,600.00</b>

**TOTAL PROJECT COST \*: \$2,329,300.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	1,580	\$14,700.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	900	\$108,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$12,270.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$134,970.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$36,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$36,400.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$54,600.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$54,600.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$226,000.00**

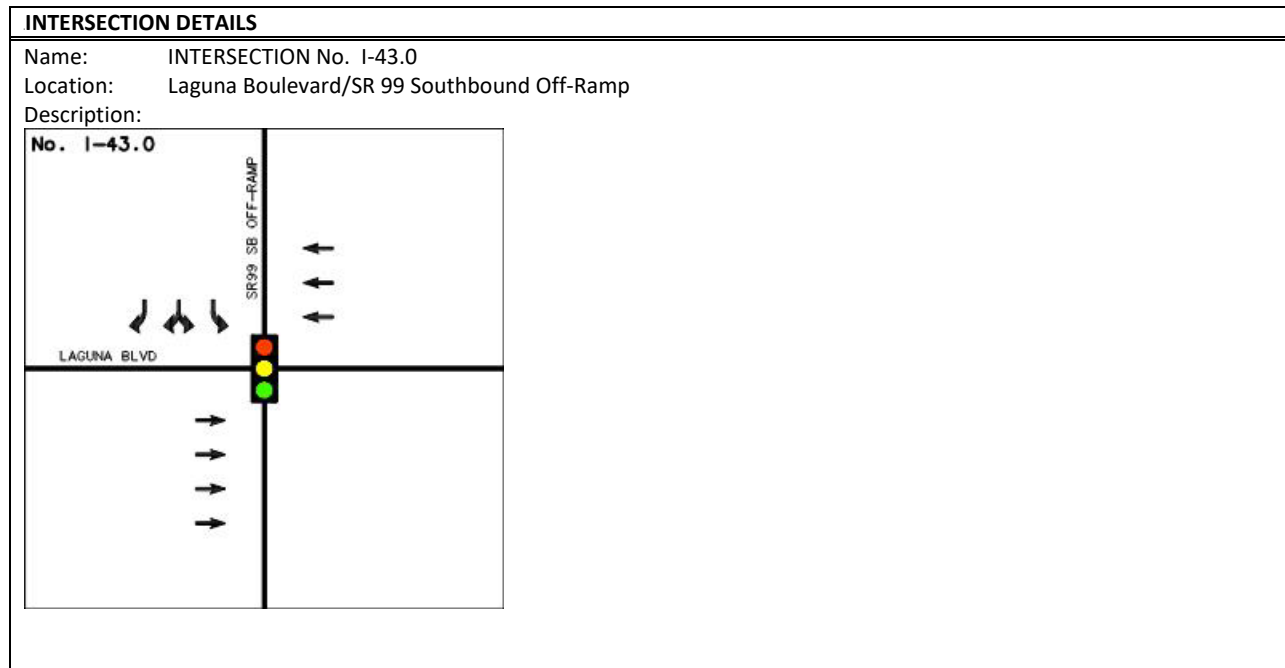
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-43.0						
Location: Laguna Boulevard/SR 99 Southbound Off-Ramp						
Description: Install free right-turn lane from SR 99 southbound ramps to westbound Laguna Boulevard.						
Signal modification on one leg only.						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	SB 99 Off Ramp			Freeway	450	4" HMA on 16" AB
South	N/A			Freeway	450	4" HMA on 16" AB
East	Laguna Blvd			Major Arterial	450	6.5" HMA on 23" AB
West	Laguna Blvd			Major Arterial	450	6.5" HMA on 23" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	180	\$5,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$5,400.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	150	\$27,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$27,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	60	\$5,400.00
3.2	AGGREGATE BASE	CY	\$60.00	150	\$9,000.00
3.3	SIDEWALK	SF	\$12.00	900	\$10,800.00
3.4	CURB & GUTTER	LF	\$45.00	150	\$6,750.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$31,950.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



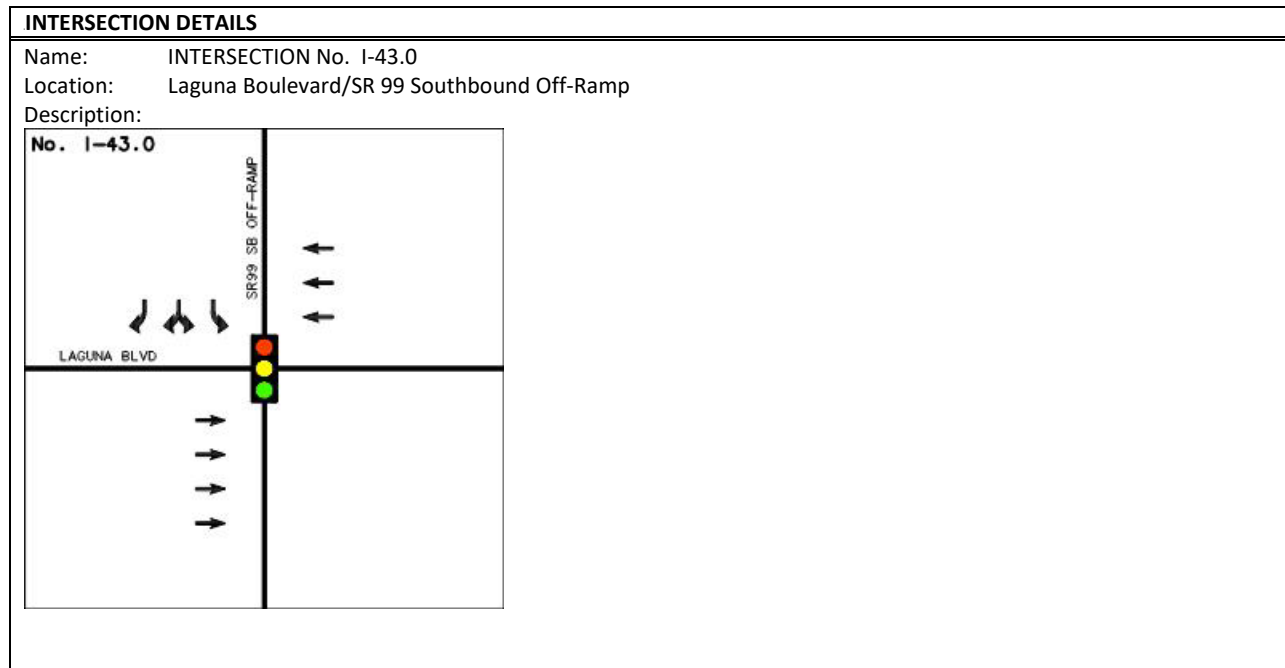
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$100,000.00	1	\$100,000.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$100,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$16,600.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$16,600.00</b>

<b>6 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	2,500	\$375,000.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$375,000.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$556,700.00
	CONTINGENCY: 20%	→ \$111,400.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$668,100.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$100,300.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$66,900.00
8.3	CALTRANS COORDINATION	LS	3%	CON. COST	\$20,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$187,300.00</b>

**TOTAL PROJECT COST \*: \$855,400.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	4,050	\$37,500.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	150	\$18,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$5,550.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$61,050.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$13,400.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$13,400.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$20,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$20,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$94,600.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

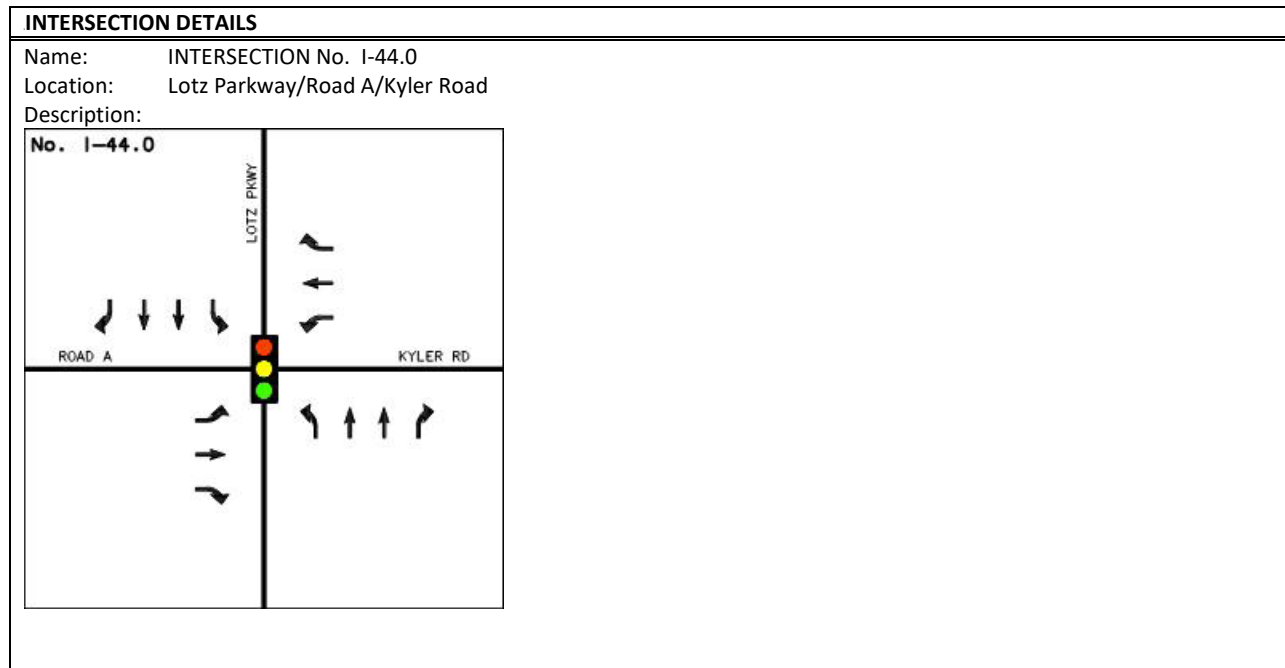
<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-44.0					
Location:	Lotz Parkway/Road A/Kyler Road					
Description:	Install Traffic Signal for new 2x4 intersection. Kyler/Road A are 2-lane facilities. No right of way is required.					
<p>The diagram shows a vertical Lotz Pkwy intersecting a horizontal Road A and Kyler Rd. Lotz Pkwy has a traffic signal with red, yellow, and green lights. Road A and Kyler Rd are 2-lane roads. Lane markings include left-turn arrows, through arrows, and right-turn arrows. A north arrow is also present.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
South	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
East	Kyler Road			Collector	450	4" HMA on 16" AB
West	Road A			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	9,460	\$283,800.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$283,800.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,650	\$328,500.00
3.2	AGGREGATE BASE	CY	\$60.00	7,530	\$451,800.00
3.3	SIDEWALK	SF	\$12.00	18,930	\$227,160.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,230,660.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



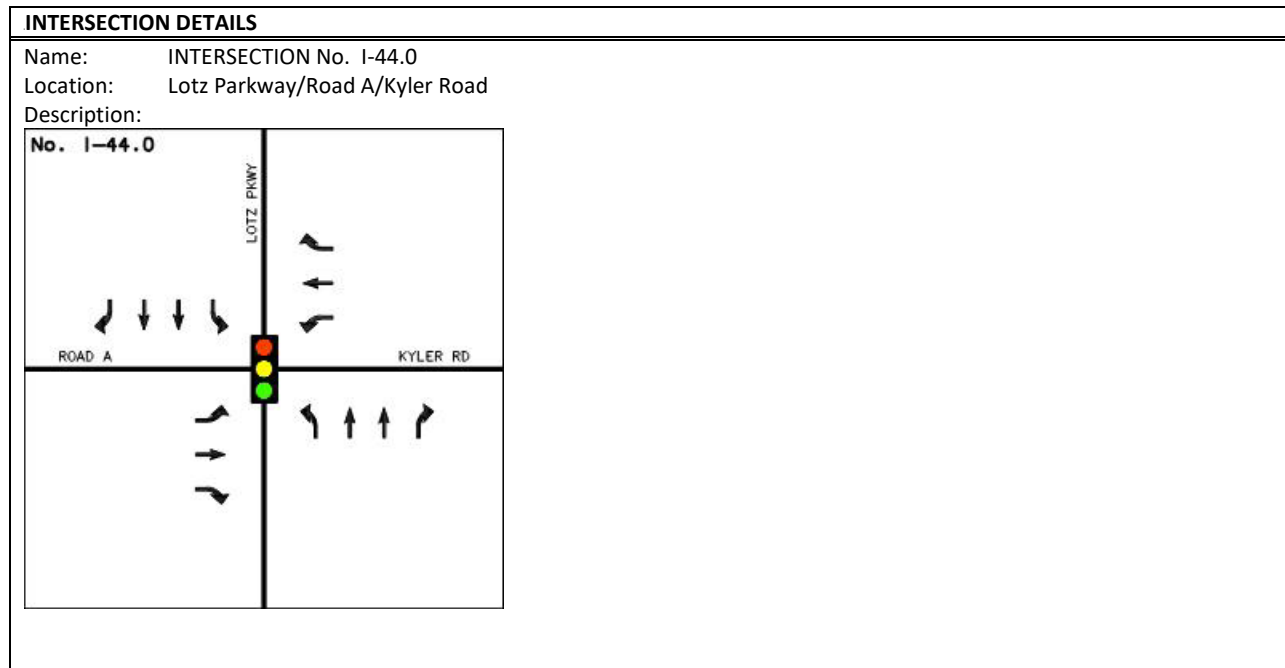
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$545,400.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$239,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$239,300.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,632,160.00
	CONTINGENCY: 20%	→ \$526,500.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$3,158,660.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$473,800.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$315,900.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$789,700.00</b>

**TOTAL PROJECT COST \*: \$3,948,400.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$63,200.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$63,200.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$94,800.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$94,800.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$158,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-45.0					
Location:	Lotz Parkway/Serra Estrela Drive					
Description:	Install Traffic Signal at widened 2x4. Sierra Estrela Drive and the driveway have a shared left/through/right turn lane. Lotz to have dedicated left and right pockets on both directions of travel. Southbound Lotz is a shared through/right turn lane.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
South	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
East	Driveway			Driveway	0	4" HMA on 16" AB
West	Serra Estrela Dr			Collector	0	0" HMA on 0" AB

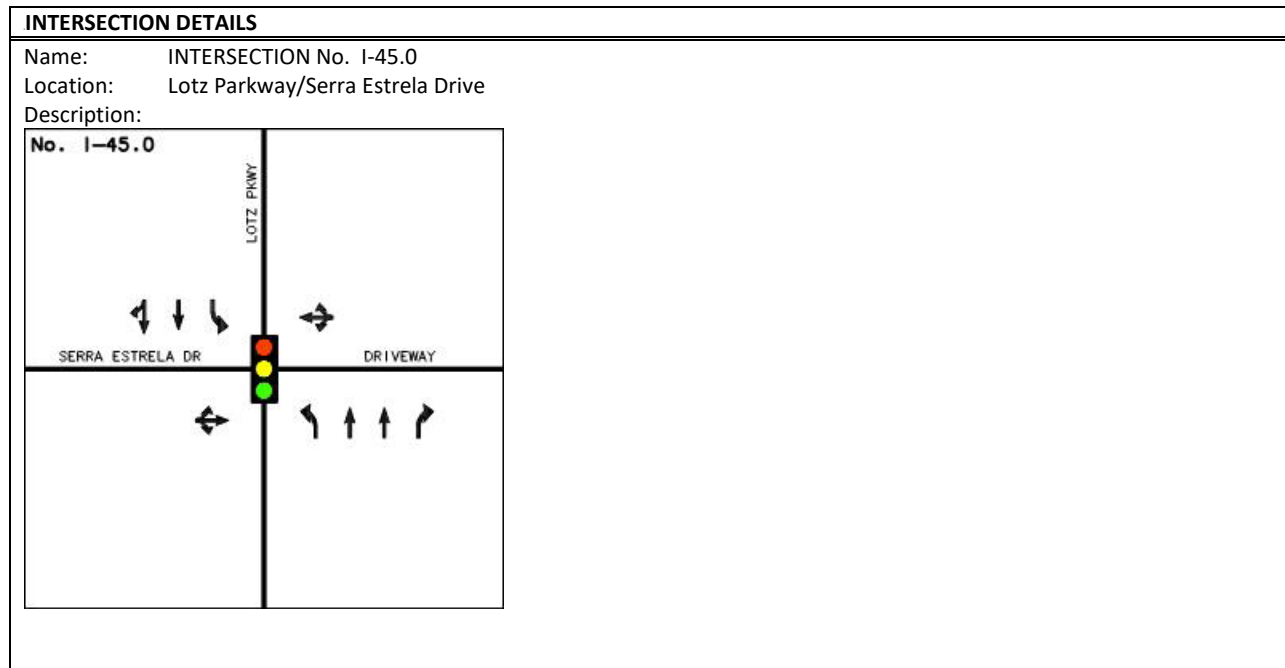
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,990	\$149,700.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$149,700.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	675	\$124,875.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$124,875.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,330	\$209,700.00
3.2	AGGREGATE BASE	CY	\$60.00	3,930	\$235,800.00
3.3	SIDEWALK	SF	\$12.00	10,800	\$129,600.00
3.4	CURB & GUTTER	LF	\$45.00	1,800	\$81,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,800	\$30,600.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$686,700.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



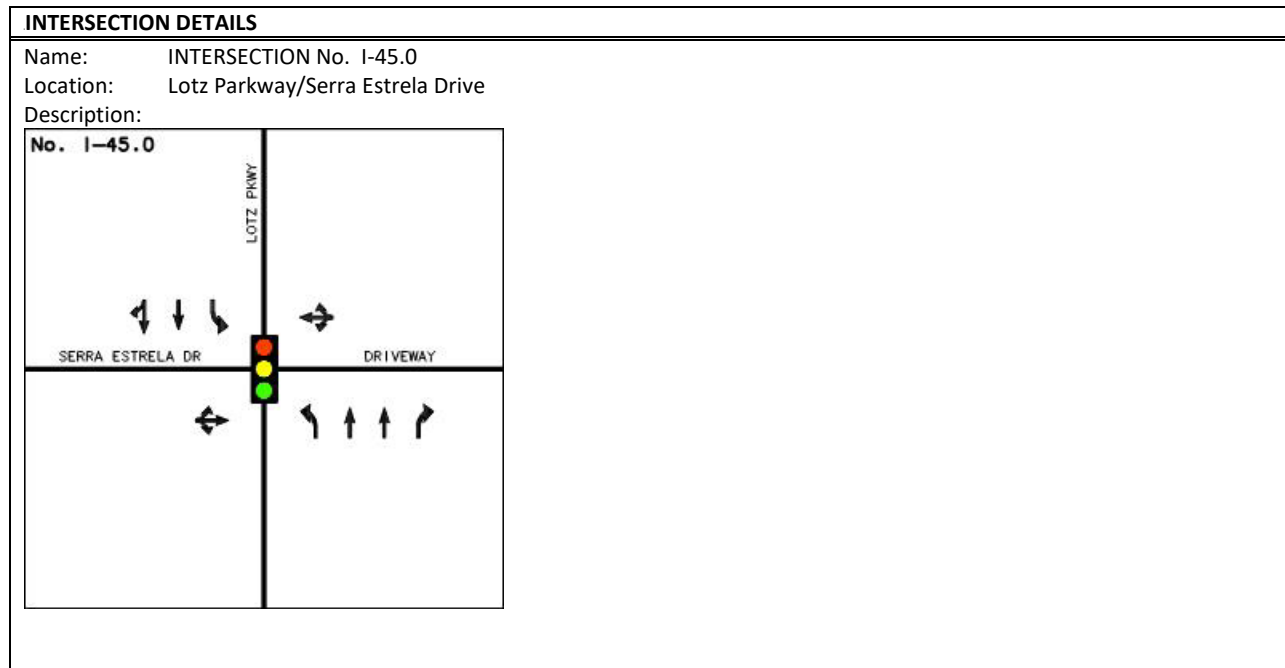
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	8	\$80,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$465,400.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$142,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$142,700.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY	
SUBTOTAL CONSTRUCTION COSTS:	\$1,569,375.00
CONTINGENCY: 20%	→ \$313,900.00
<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,883,275.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$282,500.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$188,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$470,900.00</b>

**TOTAL PROJECT COST \*: \$2,354,200.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$37,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$37,700.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$56,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$56,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$94,200.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-46.0						
Location: Lotz Parkway/Ponta Delgada Drive						
Description: Install Traffic Signal at widened 2x4 intersection. Ponta Delgada Drive and the driveway will have a single lane shared left/through/right turn lane. Lotz is a 4-lane so it needs two through lanes with a shared right to west.						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
South	Lotz Parkway			Minor Arterial	450	5.5" HMA on 21" AB
East	Driveway			Residential	0	0" HMA on 0" AB
West	Ponta Delgada Dr			Driveway	450	4" HMA on 13" AB

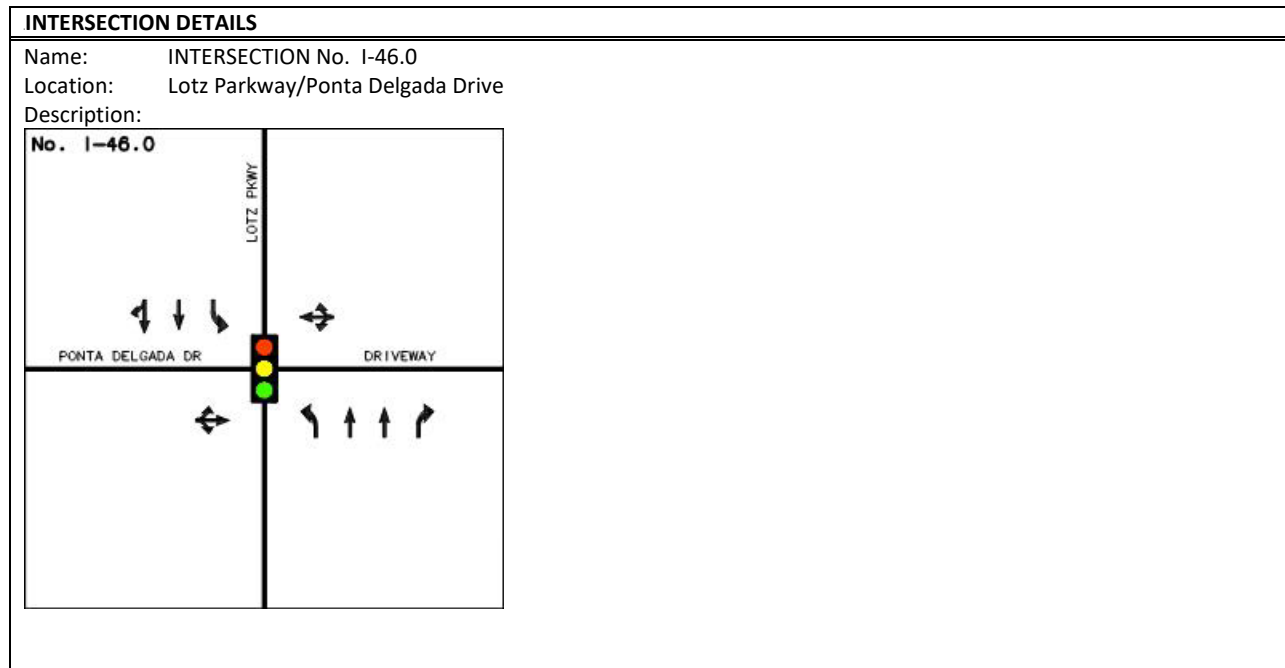
**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,180	\$185,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$185,400.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	900	\$166,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$166,500.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,820	\$253,800.00
3.2	AGGREGATE BASE	CY	\$60.00	4,870	\$292,200.00
3.3	SIDEWALK	SF	\$12.00	16,200	\$194,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,700	\$45,900.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$907,800.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



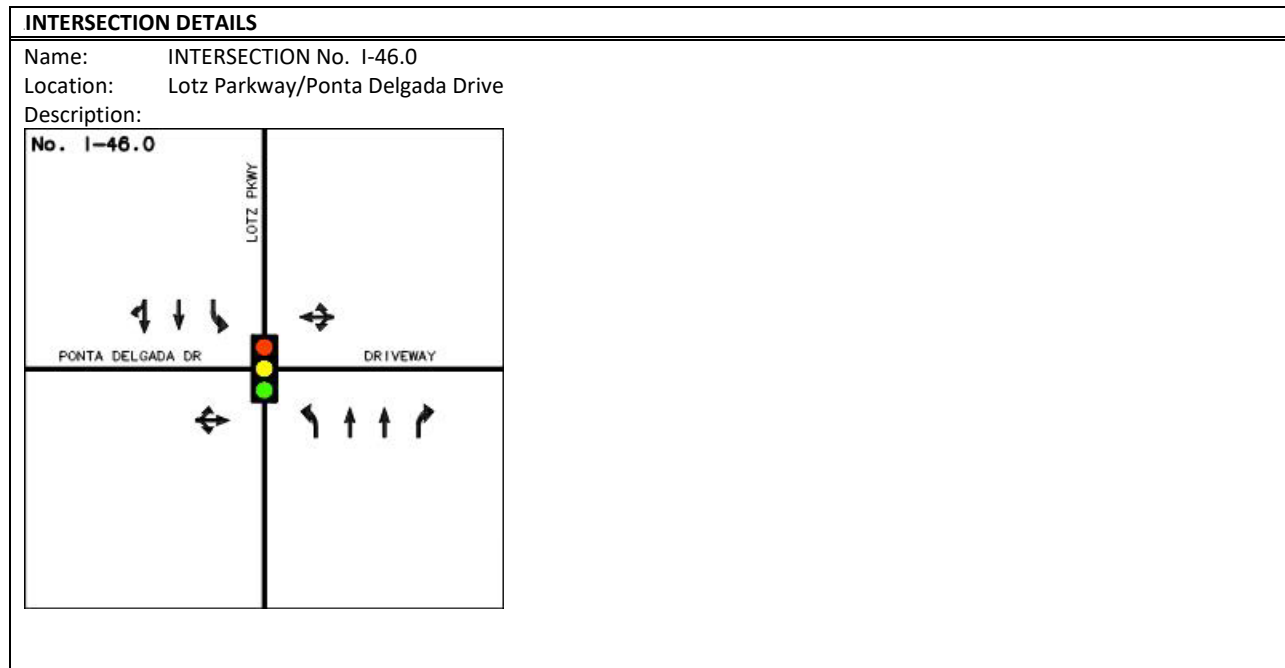
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$505,400.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$176,600.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$176,600.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,941,700.00
	CONTINGENCY: 20%	→ \$388,400.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,330,100.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$349,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$233,100.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$582,700.00</b>

**TOTAL PROJECT COST \*: \$2,912,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$46,700.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$46,700.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$70,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$70,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$116,700.00**



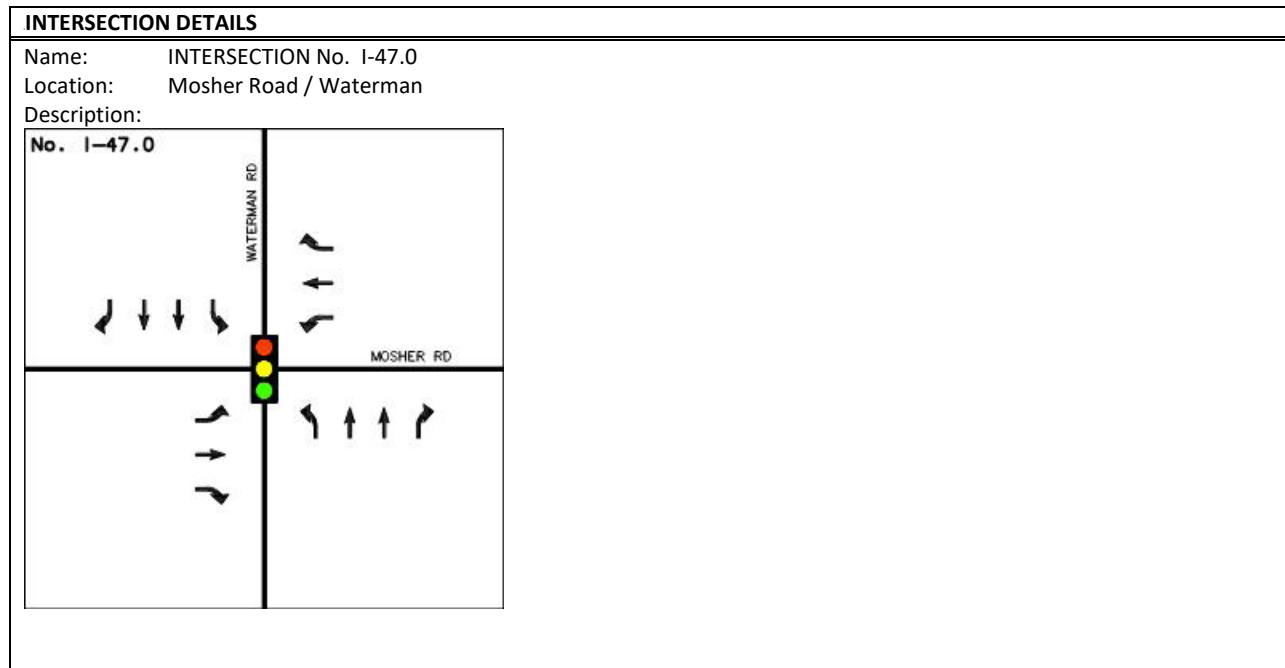
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-47.0					
Location:	Mosher Road / Waterman					
Description:	Realign intersection to be perpendicular and install traffic signal for a widened 2x4 intersection. Mosher Rd is currently stop controlled while Waterman Rd is uncontrolled.					
<p>The diagram shows a 2x4 intersection. Waterman Rd runs north-south and is controlled by a traffic signal (red, yellow, green lights shown). Mosher Rd runs east-west. Lane markings include left-turn arrows, through arrows, and right-turn arrows for both directions. A central median is shown on Mosher Rd.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Mosher Rd			Collector	450	4" HMA on 16" AB
West	Mosher Rd			Collector	0	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,620	\$138,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$138,600.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,990	\$179,100.00
3.2	AGGREGATE BASE	CY	\$60.00	3,740	\$224,400.00
3.3	SIDEWALK	SF	\$12.00	16,200	\$194,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$780,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



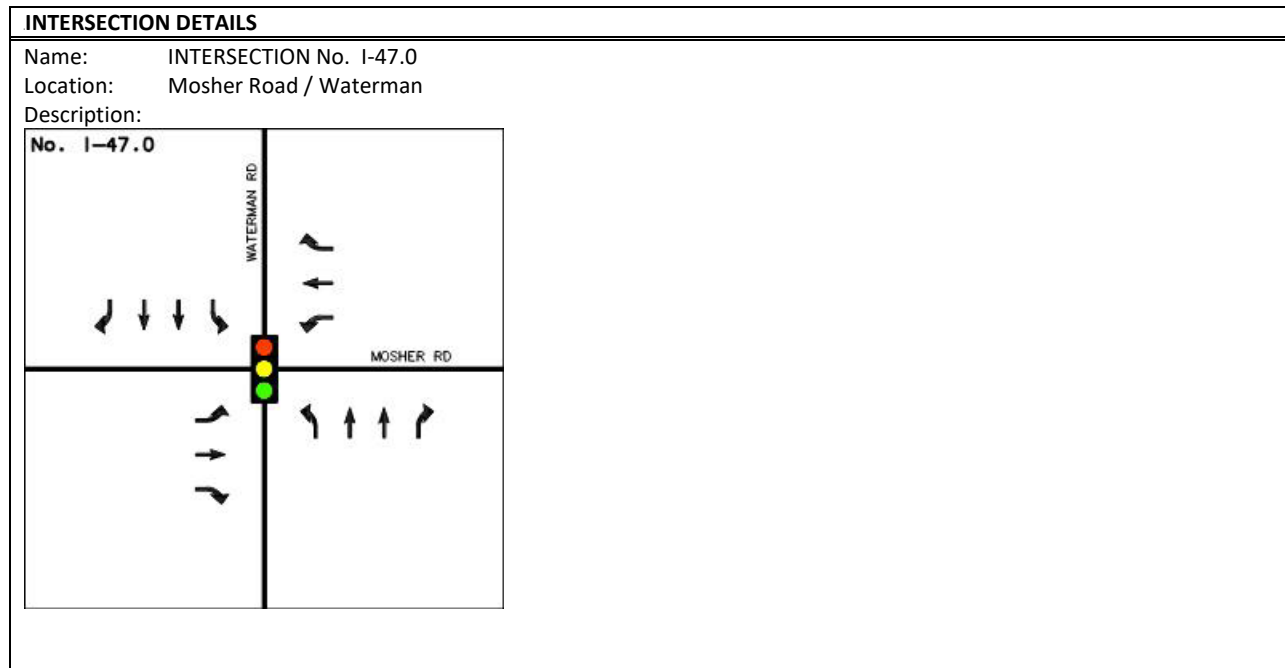
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00		\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	5,400	\$54,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$585,000.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$175,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$175,400.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,929,350.00
	CONTINGENCY: 20%	→ \$385,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,315,250.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$347,300.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$231,600.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$578,900.00</b>

**TOTAL PROJECT COST \*: \$2,894,200.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	72,110	\$162,300.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,567	\$62,680.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$22,500.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$247,480.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$231,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$231,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$69,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$69,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$548,600.00**

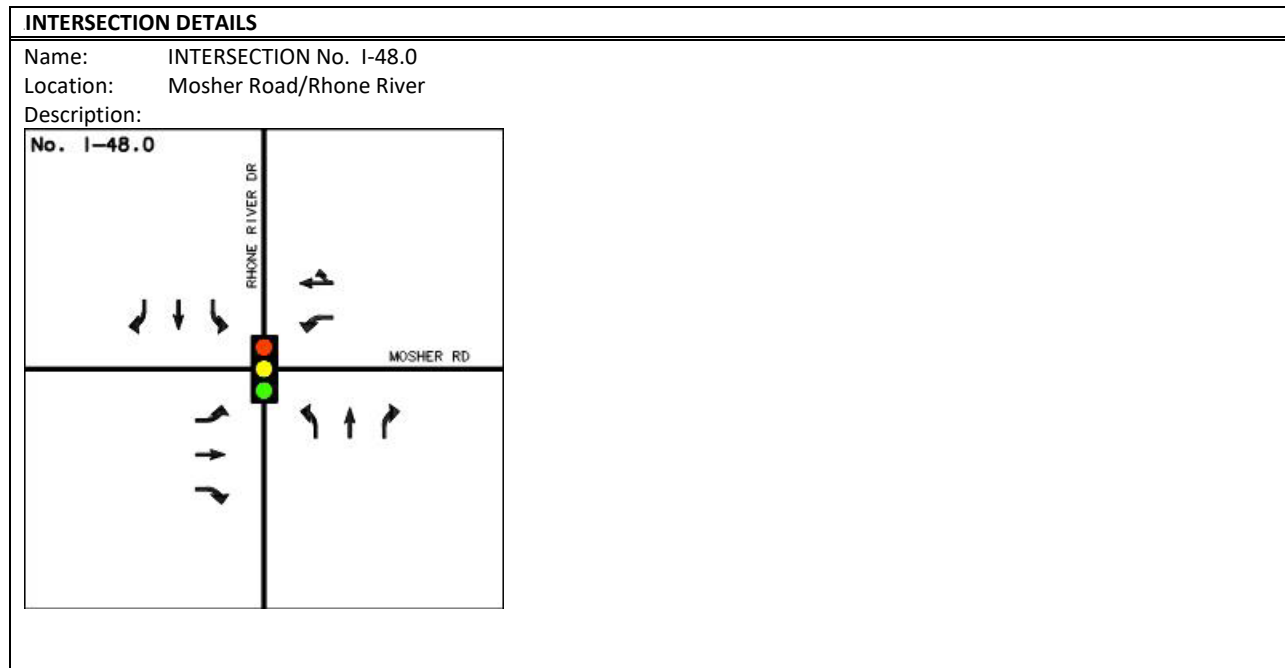
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-48.0					
Location:	Mosher Road/Rhone River					
Description:	Install Traffic Signal for a 2x2 intersection. The existing condition is stop controlled and the East leg hasn't been built yet.					
<p>The diagram shows a 2x2 intersection. The vertical road is Rhone River Dr and the horizontal road is Mosher Rd. A traffic signal is located at the intersection. Arrows indicate traffic flow: Northbound on Rhone River Dr (left, through, right), Southbound on Rhone River Dr (left, through, right), Westbound on Mosher Rd (left, through, right), and Eastbound on Mosher Rd (left, through, right). A traffic signal is shown with red, yellow, and green lights. The intersection is labeled 'No. I-48.0'.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Rhone River Dr			Collector	450	4" HMA on 16" AB
South	Rhone River Dr			Collector	450	4" HMA on 16" AB
East	Mosher Rd			Residential	450	4" HMA on 13" AB
West	Mosher Rd			Residential	150	4" HMA on 13" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	4,810	\$144,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$144,300.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,020	\$181,800.00
3.2	AGGREGATE BASE	CY	\$60.00	3,190	\$191,400.00
3.3	SIDEWALK	SF	\$12.00	11,400	\$136,800.00
3.4	CURB & GUTTER	LF	\$45.00	1,900	\$85,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$595,500.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



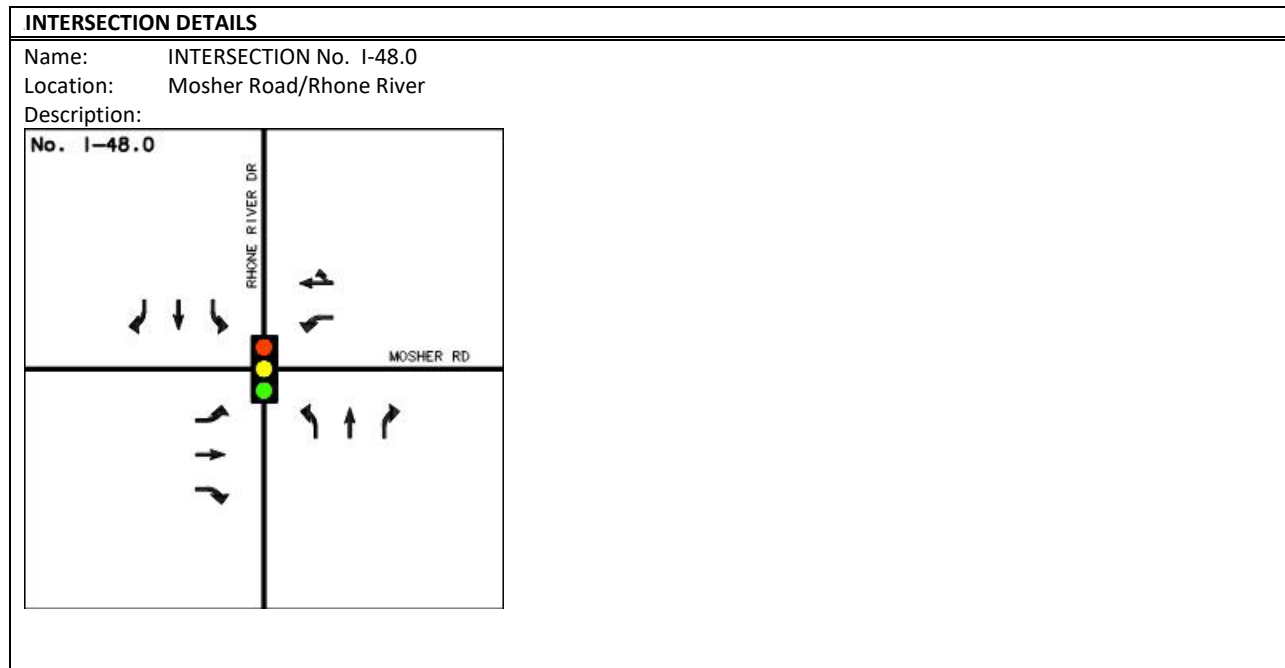
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	850	\$47,600.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$482,600.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$147,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$147,300.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,619,450.00
	CONTINGENCY: 20%	→ \$323,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$1,943,350.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$291,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$194,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$486,000.00</b>

**TOTAL PROJECT COST \*: \$2,429,400.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$38,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$38,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$58,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$58,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$97,300.00**

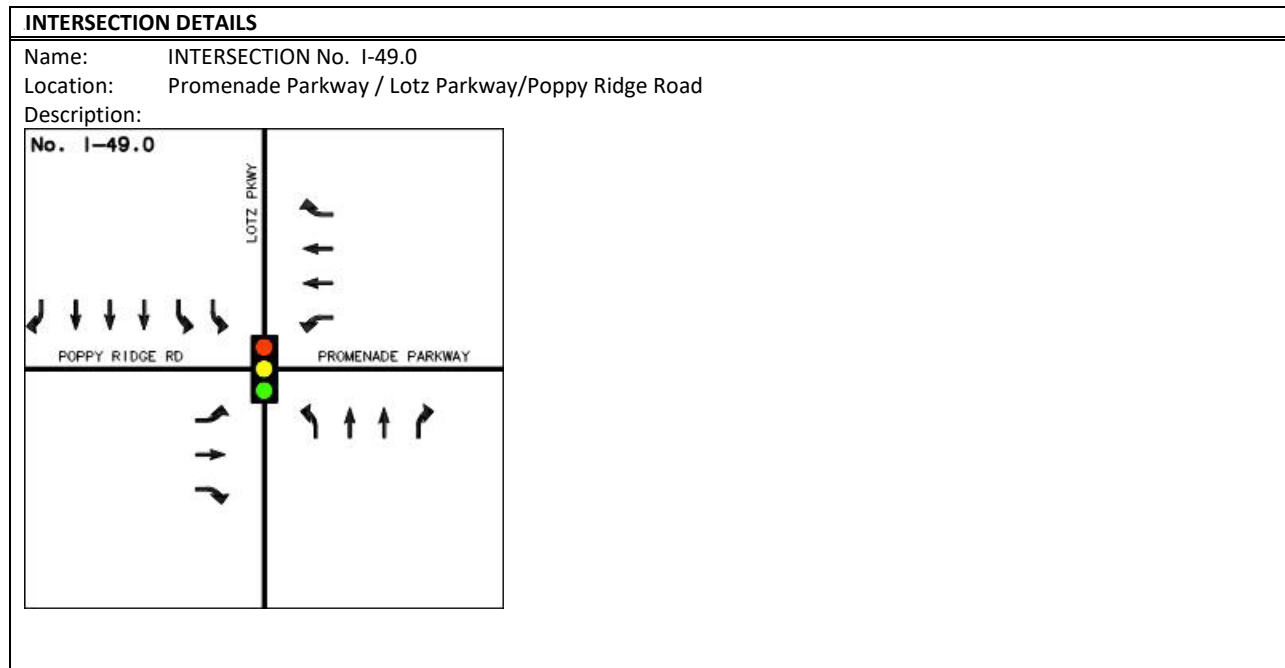
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-49.0					
Location:	Promenade Parkway / Lotz Parkway/Poppy Ridge Road					
Description:	Install Traffic Signal for new 4x6 intersection. Poppy Ridge to have a dedicated left, through, and right. North side of Lotz Parkway will have 6 lanes and south side will have 4 lanes. Promenade will have 4 lanes with dedicated right and left turn lanes.					
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Major Arterial	450	6.5" HMA on 23" AB
South	Lotz Parkway			Major Arterial	450	6.5" HMA on 23" AB
East	Promenade Parkway			Collector	450	6.5" HMA on 23" AB
West	Poppy Ridge Rd			Major Arterial	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	18,280	\$548,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$548,400.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,800	\$333,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$333,000.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	7,610	\$684,900.00
3.2	AGGREGATE BASE	CY	\$60.00	14,310	\$858,600.00
3.3	SIDEWALK	SF	\$12.00	21,600	\$259,200.00
3.4	CURB & GUTTER	LF	\$45.00	3,600	\$162,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,025,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,500	\$84,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,880	\$28,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$587,800.00</b>

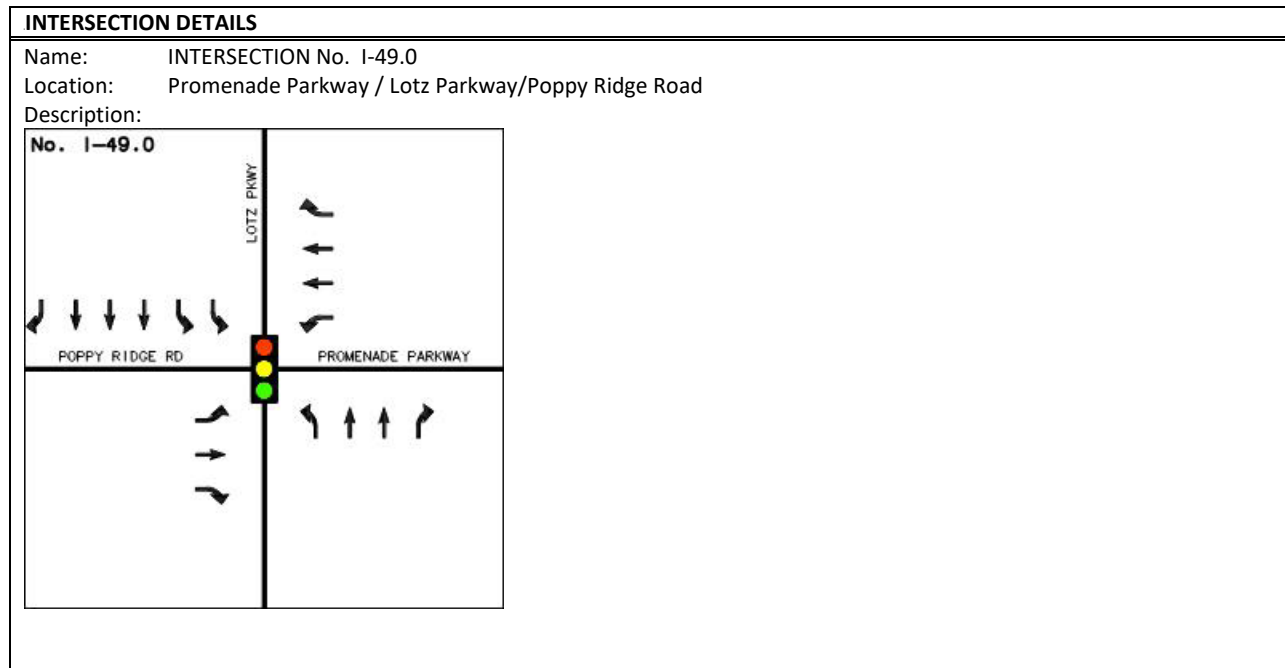
<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$349,600.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$349,600.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$3,844,700.00
	CONTINGENCY: 20%	→ \$769,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$4,613,700.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$692,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$461,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,153,500.00</b>

**TOTAL PROJECT COST \*: \$5,767,200.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	80,126	\$180,300.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,800	\$72,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$25,230.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$277,530.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$92,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$92,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$138,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$138,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$508,400.00**

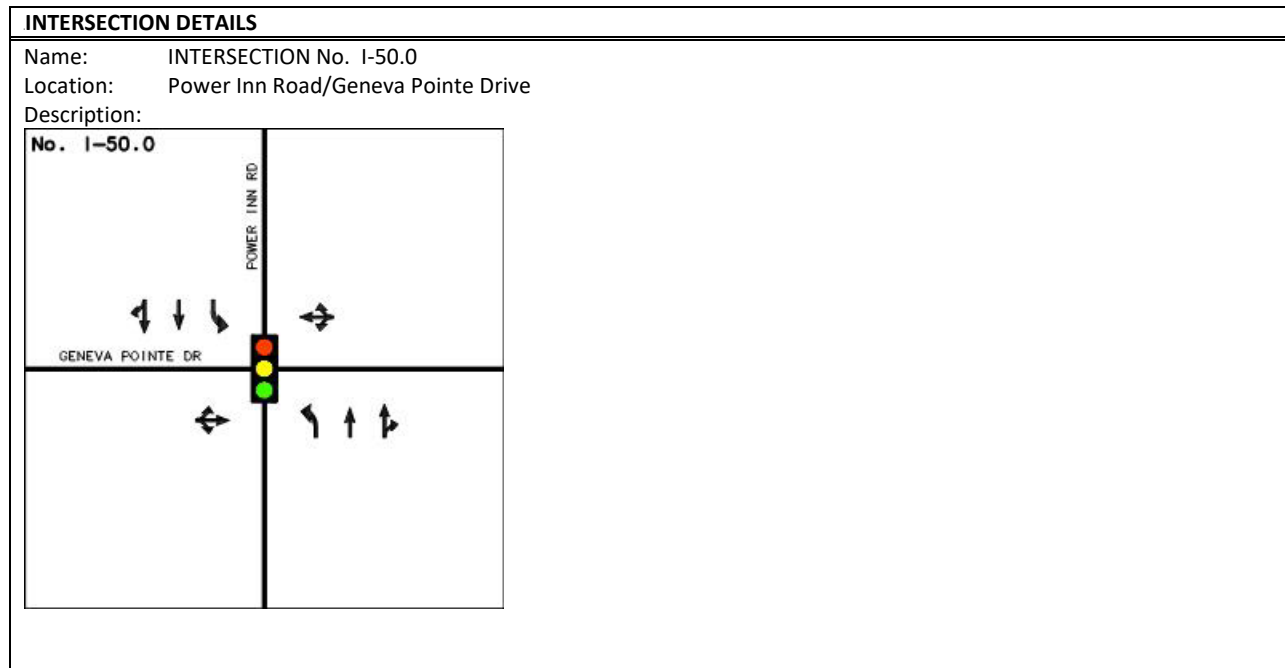
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-50.0					
Location:	Power Inn Road/Geneva Pointe Drive					
Description:	Install Traffic Signal for existing 2x4 intersection. The existing condition is stop controlled					
<p>The diagram shows a T-intersection where Power Inn Rd (No. I-50.0) runs north-south and Geneva Pointe Dr runs east-west. A traffic signal is located at the intersection. Power Inn Rd has three lanes: a left-turn lane, a through lane, and a right-turn lane. Geneva Pointe Dr has two lanes: a left-turn lane and a through lane. The traffic signal is currently showing a red light for the northbound direction and a green light for the southbound direction.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Power Inn Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Power Inn Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Geneva Pointe Dr			Collector	450	4" HMA on 16" AB
West	Geneva Pointe Dr			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	140	\$4,200.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$4,200.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,500	\$135,000.00
3.2	AGGREGATE BASE	CY	\$60.00	50	\$3,000.00
3.3	SIDEWALK	SF	\$12.00	1,710	\$20,520.00
3.4	CURB & GUTTER	LF	\$45.00	285	\$12,825.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	285	\$4,845.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$176,190.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



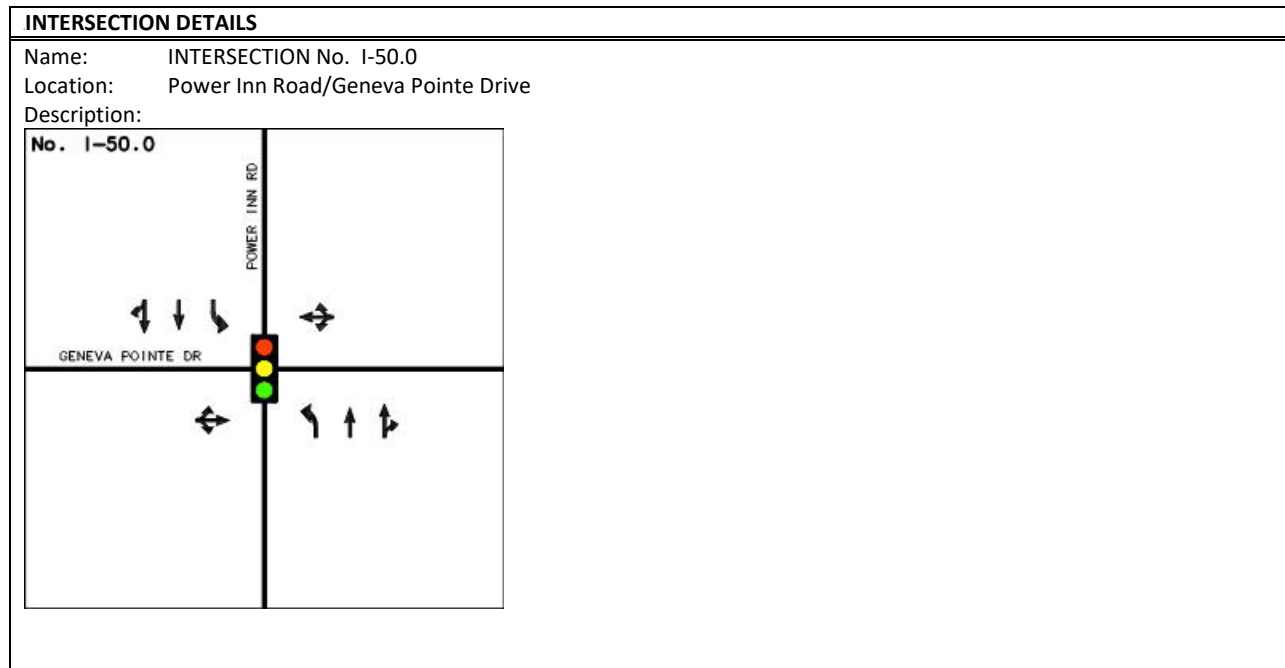
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$385,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$56,600.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$56,600.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$622,390.00
	CONTINGENCY: 20% → \$124,500.00
	<b>TOTAL CONSTRUCTION COSTS: \$746,890.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$112,100.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$74,700.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$186,800.00</b>

**TOTAL PROJECT COST \*: \$933,700.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$15,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$15,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$22,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$22,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$37,500.00**

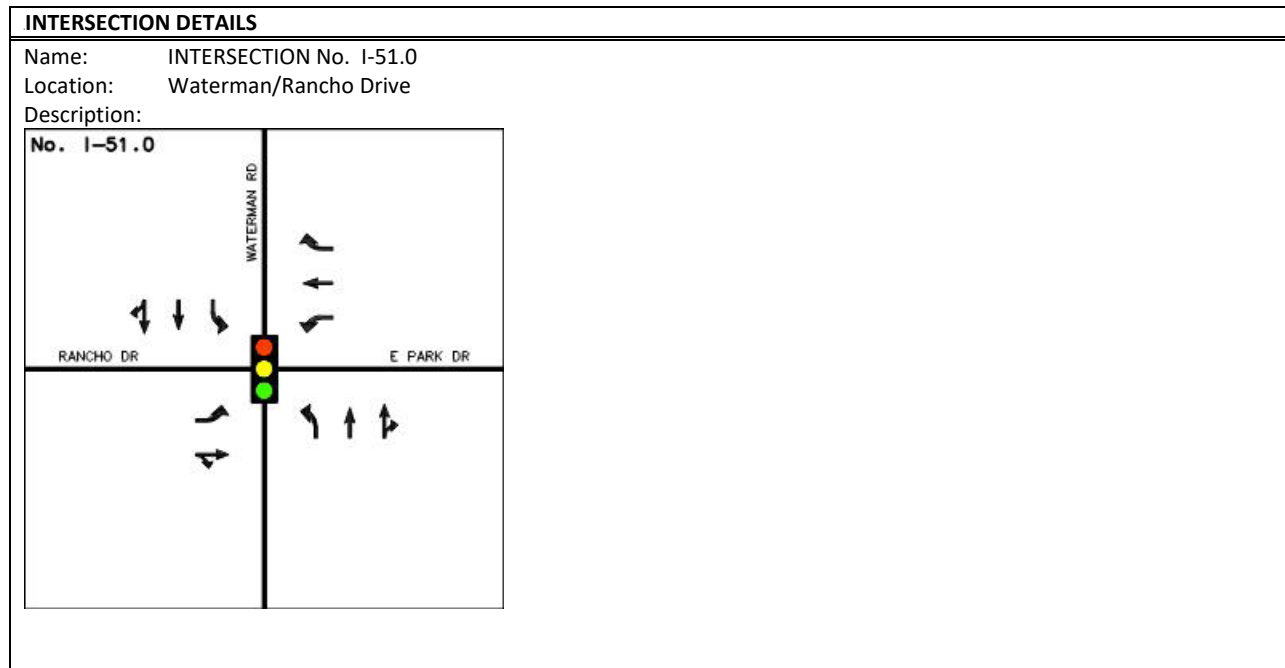
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-51.0						
Location: Waterman/Rancho Drive						
Description: Install Traffic Signal for widened 2x4 intersection. Rancho Dr is currently stop controlled and will not require any improvements other than slurry and striping. Waterman Rd is currently uncontrolled and will only be built for the east half section.						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	E Park Dr			Collector	450	4" HMA on 16" AB
West	Rancho Dr			Collector	0	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	5,420	\$162,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$162,600.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	2,630	\$236,700.00
3.2	AGGREGATE BASE	CY	\$60.00	4,280	\$256,800.00
3.3	SIDEWALK	SF	\$12.00	10,800	\$129,600.00
3.4	CURB & GUTTER	LF	\$45.00	1,800	\$81,000.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,800	\$30,600.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$734,700.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



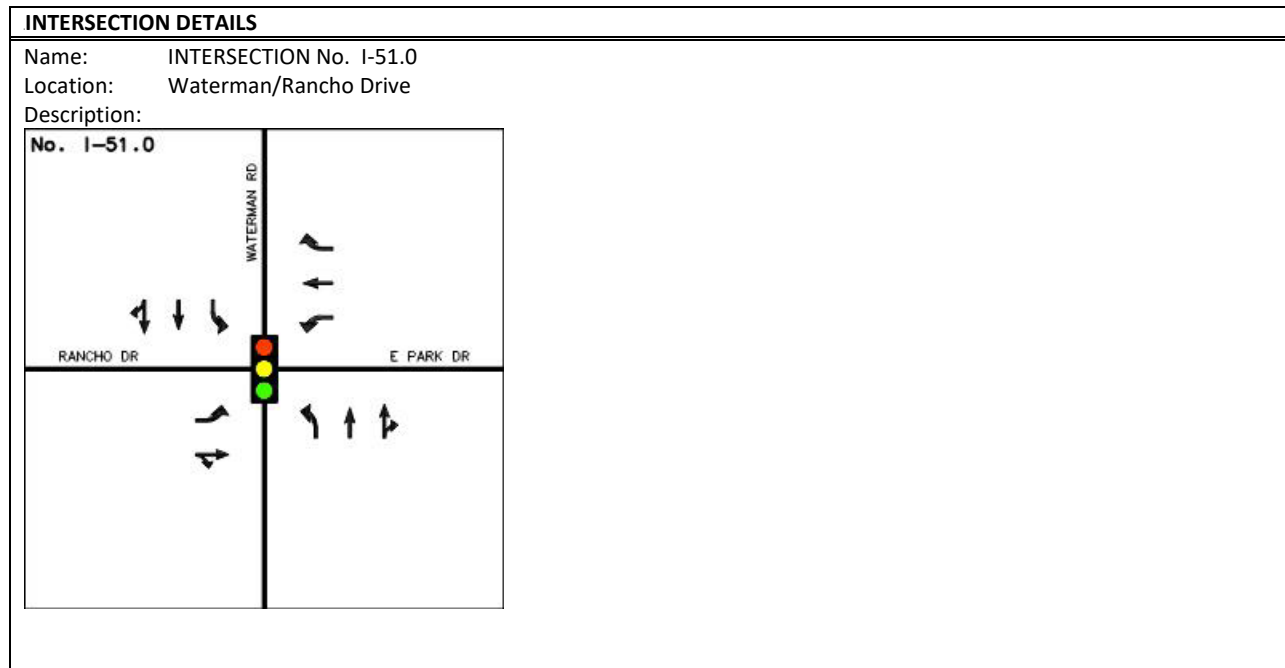
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	8	\$80,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$465,400.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$161,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$161,300.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$1,773,750.00
	CONTINGENCY: 20% → \$354,800.00
	<b>TOTAL CONSTRUCTION COSTS: \$2,128,550.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$319,300.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$212,900.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$532,200.00</b>

**TOTAL PROJECT COST \*: \$2,660,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$20.00	42,481	\$849,700.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$250.00	1,500	\$375,000.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$122,470.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$1,347,170.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$212,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$212,900.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$63,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$63,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$1,624,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

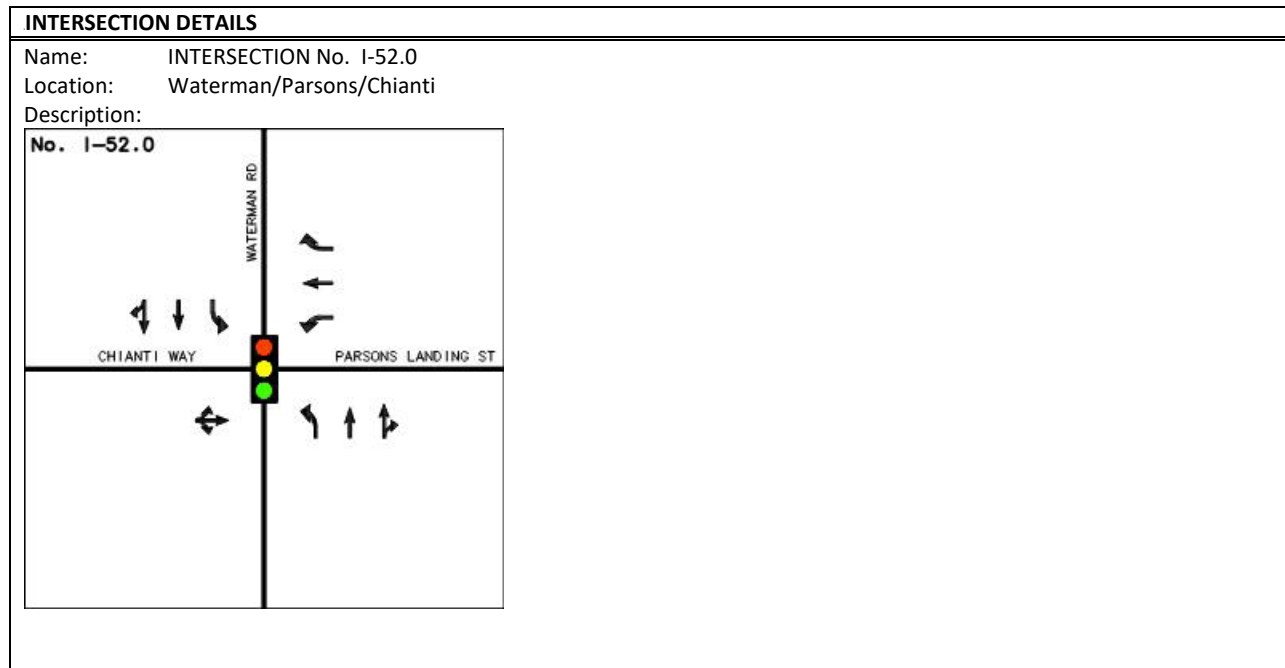
<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-52.0						
Location: Waterman/Parsons/Chianti						
Description: Install Traffic Signal at existing 2x4 intersection. Chianti Way and Parsons Landing St are currently residential stop controlled streets; Waterman Rd is uncontrolled. No pavement work on east/west leg, only striping, signage, and camera detection.						
<p>The diagram shows a T-intersection where Waterman Rd (vertical) meets Chianti Way (horizontal) and Parsons Landing St (horizontal). Waterman Rd has a traffic signal with red, yellow, and green lights. Chianti Way has a left-turn lane and a through/right-turn lane. Parsons Landing St has a left-turn lane and a through/right-turn lane. Arrows indicate traffic flow for each lane.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Parsons Landing			Residential	150	4" HMA on 13" AB
West	Chianti Way			Residential	150	4" HMA on 13" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,880	\$56,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$56,400.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,770	\$159,300.00
3.2	AGGREGATE BASE	CY	\$60.00	1,410	\$84,600.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,800	\$30,600.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$274,500.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



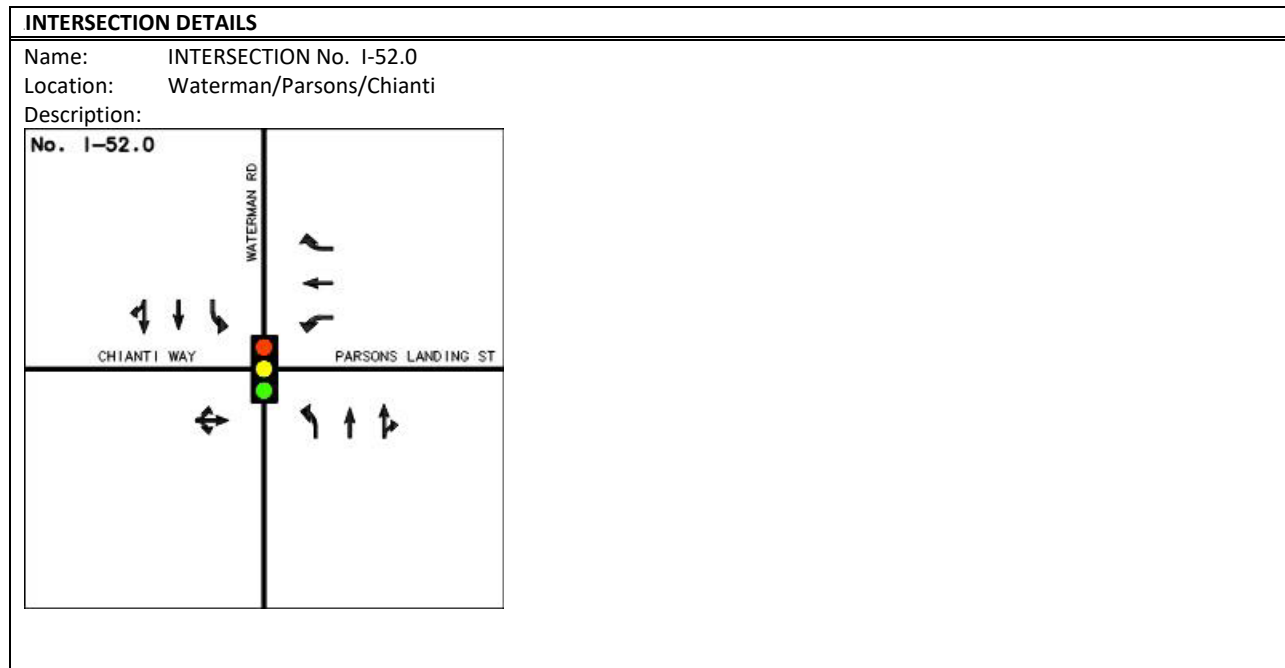
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$385,400.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$71,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$71,700.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY	
SUBTOTAL CONSTRUCTION COSTS:	\$788,000.00
CONTINGENCY: 20%	→ \$157,600.00
<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$945,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$141,900.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$94,600.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$236,500.00</b>

**TOTAL PROJECT COST \*: \$1,182,100.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$19,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$19,000.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$28,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$28,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$47,400.00**

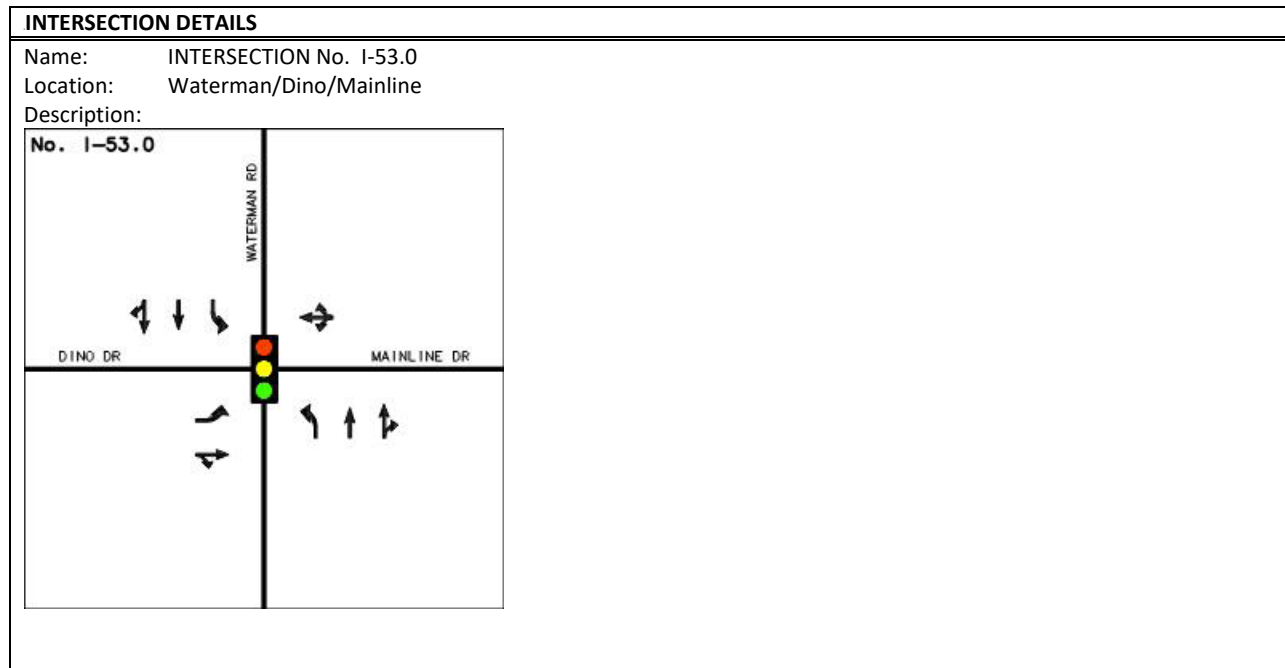
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-53.0						
Location: Waterman/Dino/Mainline						
Description: Install Traffic Signal at existing 2x4 intersection. This intersection has no expansion to pavement nor relocation of walks. It requires striping, signals, and interconnect fiber optic connections. Dino Dr will require more HMA due to industrial traffic.						
<p>The diagram shows a 2x4 intersection. Waterman Rd runs north-south, Dino Dr runs west, and Mainline Dr runs east. A traffic signal is located at the center. Lane markings include straight, left-turn, and right-turn arrows for all directions. A traffic light symbol is shown in the center of the intersection.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Mainline Dr			Minor Arterial	450	5.5" HMA on 21" AB
West	Dino Dr			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,700	\$51,000.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$51,000.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,530	\$137,700.00
3.2	AGGREGATE BASE	CY	\$60.00	1,350	\$81,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	3,600	\$61,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$279,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



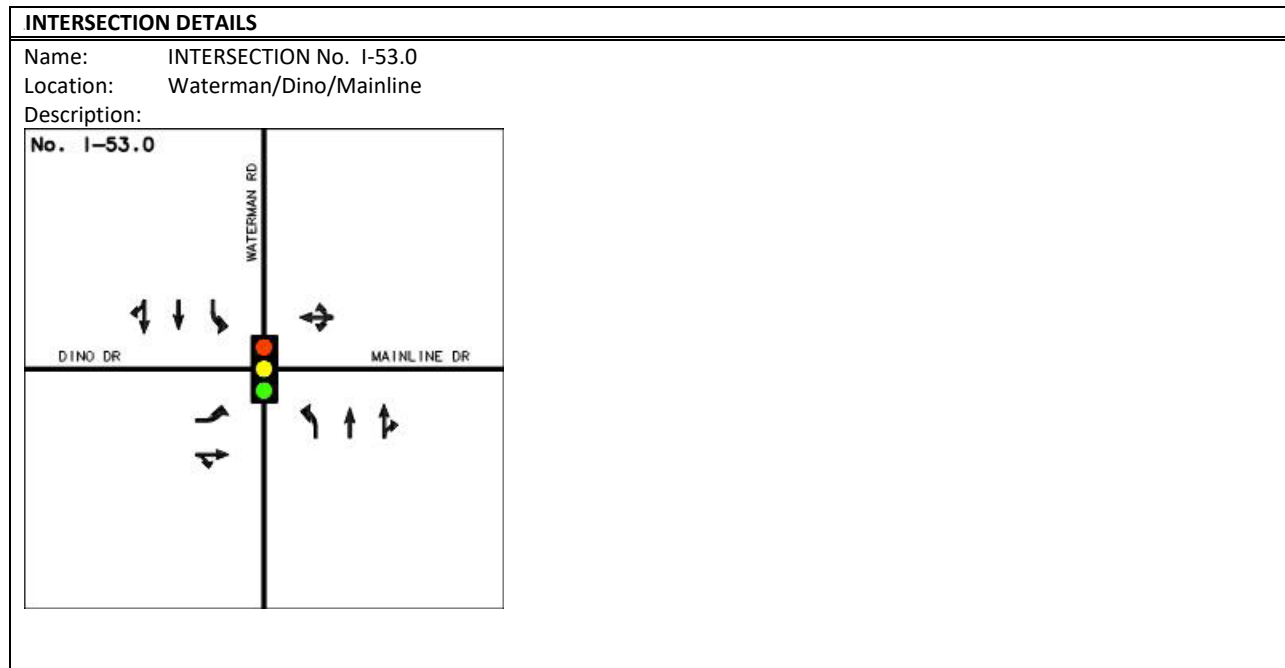
<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	16	\$160,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$531,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$86,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$86,200.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$948,100.00
	CONTINGENCY: 20% → \$189,700.00
	<b>TOTAL CONSTRUCTION COSTS: \$1,137,800.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$170,700.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$113,800.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$284,500.00</b>

**TOTAL PROJECT COST \*: \$1,422,300.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$22,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$22,800.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$34,200.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$34,200.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$57,000.00**

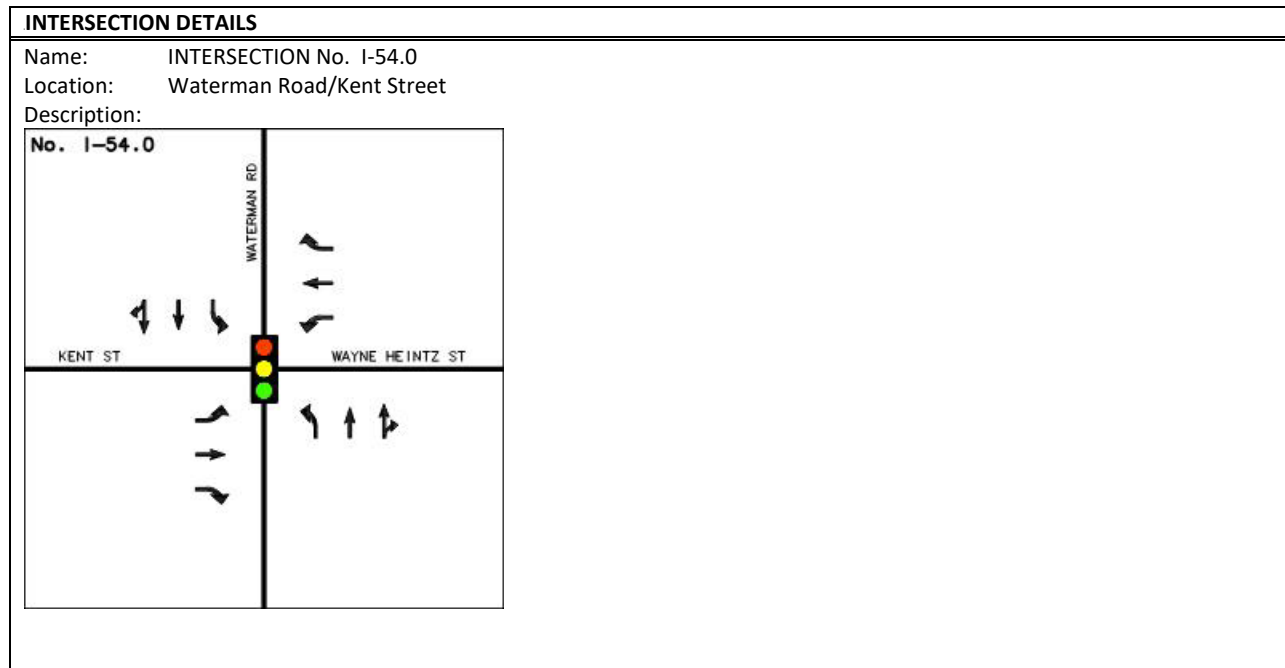
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-54.0					
Location:	Waterman Road/Kent Street					
Description:	Install Traffic Signal for widened 2x4 intersection. For Waterman, pavement will be required only on the east half section and sidewalk will need to be built on Creek corner. The culvert at EG Creek requires an extension due to road widening.					
<p>The diagram shows a 2x4 intersection. Waterman Rd runs north-south, Kent St runs east-west, and Wayne Heintz St runs east-west. A traffic signal is located at the intersection. Lane markings include arrows for through, left, and right turns. A legend 'No. I-54.0' is in the top left corner.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
South	Waterman Rd			Minor Arterial	450	5.5" HMA on 21" AB
East	Wayne Heintz Street			Collector	450	4" HMA on 16" AB
West	Kent Street			Collector	125	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	6,010	\$180,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$180,300.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	900	\$166,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$166,500.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,080	\$277,200.00
3.2	AGGREGATE BASE	CY	\$60.00	4,750	\$285,000.00
3.3	SIDEWALK	SF	\$12.00	6,900	\$82,800.00
3.4	CURB & GUTTER	LF	\$45.00	1,150	\$51,750.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	2,950	\$50,150.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$746,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



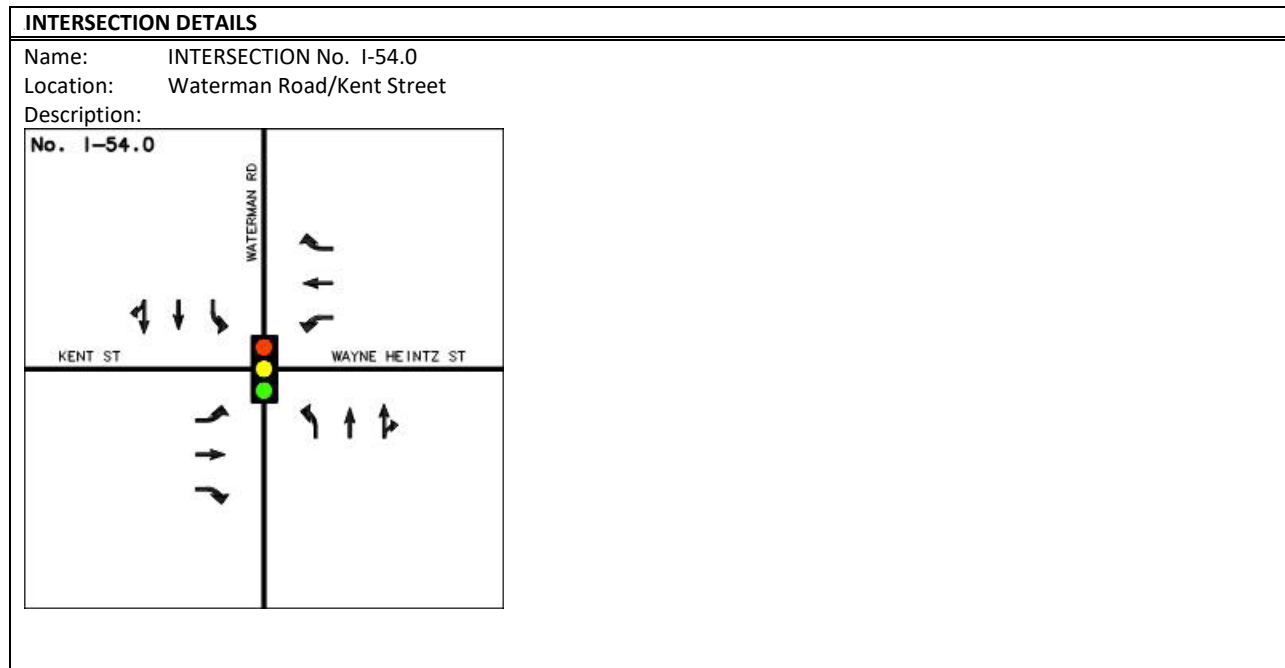
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	13	\$130,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	1,440	\$14,400.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$515,400.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$161,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$161,000.00</b>

6 STRUCTURES					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	80	\$40,000.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$40,000.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$1,810,100.00
	CONTINGENCY: 20%	→ \$362,100.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,172,200.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$325,900.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$217,300.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$543,200.00</b>

**TOTAL PROJECT COST \*: \$2,715,400.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

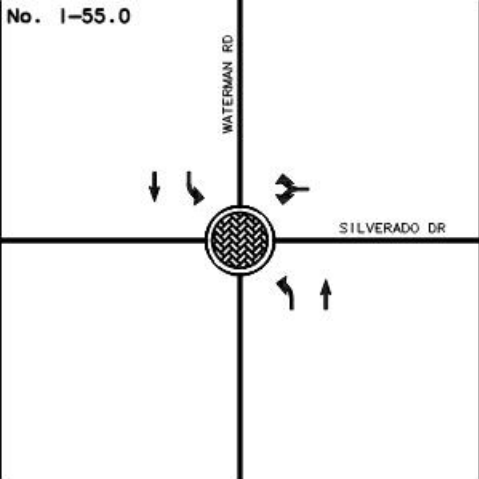
10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$217,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$217,300.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	10%	CON. COST	\$217,300.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$217,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$434,600.00**



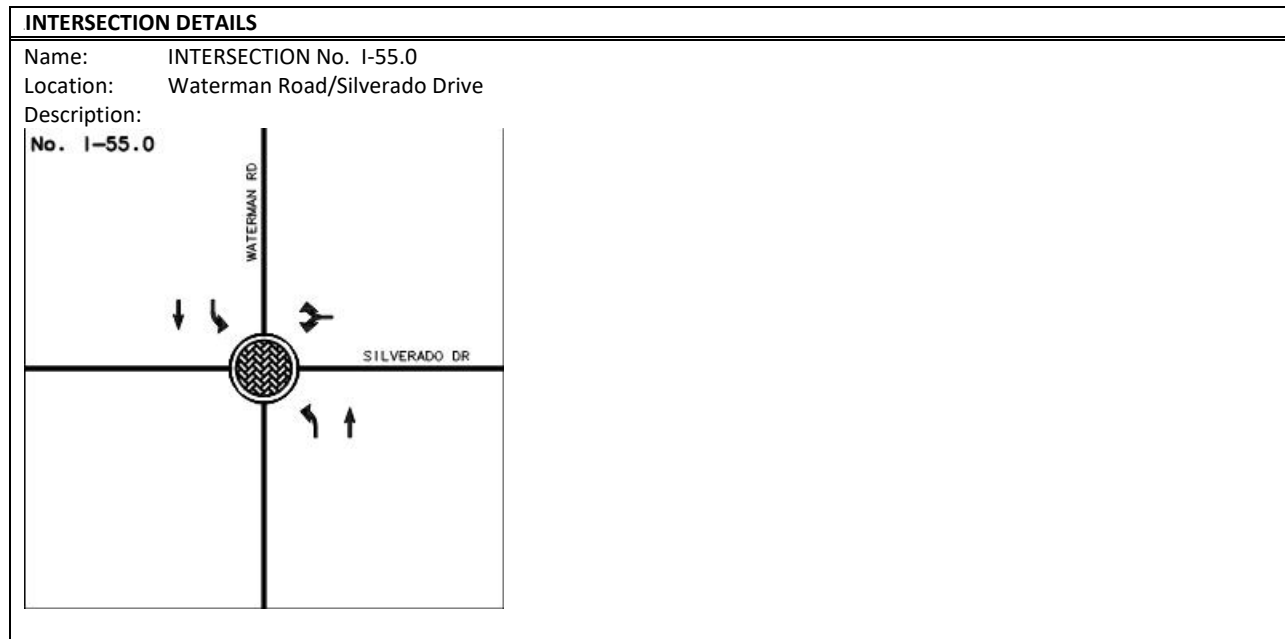
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-55.0						
Location: Waterman Road/Silverado Drive						
Description: Construct 2x2 Roundabout.NB and SB Waterman Road and East leg on Silverado Drive.						
Assumed 124 feet inscribed circle diameter. Cost includes ROW acquisition and severance damages on multiple properties. Relocate utilities.						
						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Waterman Rd			Collector	450	4" HMA on 16" AB
South	Waterman Rd			Collector	450	4" HMA on 16" AB
East	Silverado Dr			Collector	450	4" HMA on 16" AB
West	Silverado Dr			Collector	0	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	3,950	\$118,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$118,500.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,850	\$166,500.00
3.2	AGGREGATE BASE	CY	\$60.00	2,950	\$177,000.00
3.3	SIDEWALK	SF	\$12.00	16,200	\$194,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB	LF	\$17.00	2,520	\$42,840.00
3.6	TEXTURED PAVING	SF	\$40.00	7,200	\$288,000.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$990,240.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	00	\$0.00
4.3	TRAFFIC SIGNAL REMOVAL	LS	\$125,000.00	0	\$0.00
4.4	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.5	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.6	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.7	LANDSCAPING	SF	\$10.00	19,042	\$190,500.00
4.8	SIGNING AND STRIPING	LS	\$50,000.00	1	\$50,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$431,500.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$179,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$179,000.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$1,968,990.00
	CONTINGENCY: 20% → \$393,800.00
	<b>TOTAL CONSTRUCTION COSTS: \$2,362,790.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-55.0
Location:	Waterman Road/Silverado Drive
Description:	No. I-55.0

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$354,500.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$236,300.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$590,800.00</b>

**TOTAL PROJECT COST \*: \$2,953,600.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	41,580	\$94,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	1,800	\$72,000.00
9.4	SEVERANCE DAMAGES	LS	\$40,000.00	1	\$40,000.00
9.5	CONTINGENCY	LS	10%	OF ROW COST	\$16,600.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$222,600.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$236,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$236,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$70,900.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$70,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$529,800.00**

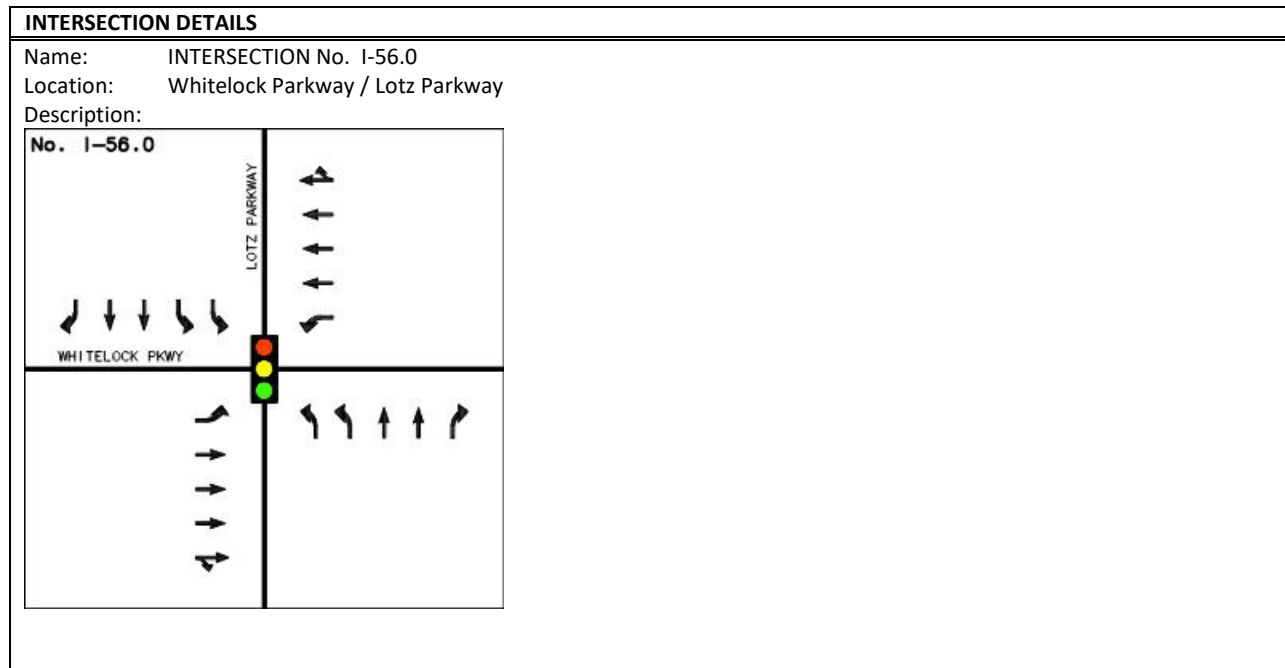
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-56.0					
Location:	Whitelock Parkway / Lotz Parkway					
Description:	Install Traffic Signal at wiened 4x6 intersection. Lotz Pkwy is currently stop controlled while Whitelock Pkwy is uncontrolled. The South leg has not been built yet.					
<p>The diagram shows a four-way intersection. Lotz Parkway runs north-south, and Whitelock Parkway runs east-west. A traffic signal is located at the center of the intersection, with a red light on top and a green light on the bottom. Arrows indicate traffic flow: Lotz Parkway has through and left-turn lanes in both directions; Whitelock Parkway has through and left-turn lanes in both directions. The intersection is labeled 'No. I-56.0'.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lotz Parkway			Major Arterial	0	6.5" HMA on 23" AB
South	Lotz Parkway			Major Arterial	450	6.5" HMA on 23" AB
East	Whitelock Parkway			Minor Arterial	400	5.5" HMA on 21" AB
West	Whitelock Parkway			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	8,380	\$251,400.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$251,400.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	1,350	\$249,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$249,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	4,310	\$387,900.00
3.2	AGGREGATE BASE	CY	\$60.00	6,530	\$391,800.00
3.3	SIDEWALK	SF	\$12.00	8,580	\$102,960.00
3.4	CURB & GUTTER	LF	\$45.00	1,430	\$64,350.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$947,010.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



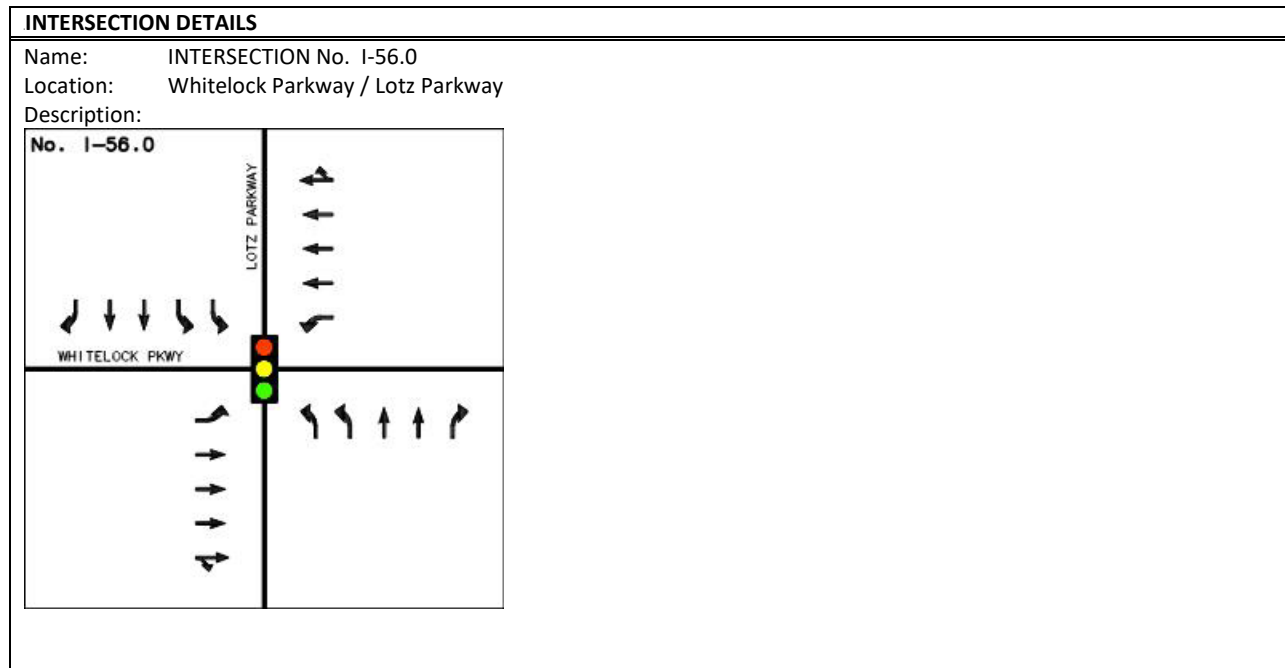
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	2,000	\$112,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	2,160	\$21,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$478,600.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$192,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$192,700.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$2,119,460.00
	CONTINGENCY: 20%	→ \$423,900.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$2,543,360.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$381,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$254,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$636,000.00</b>

**TOTAL PROJECT COST \*: \$3,179,400.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$50,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$50,900.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$76,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$76,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$127,300.00**

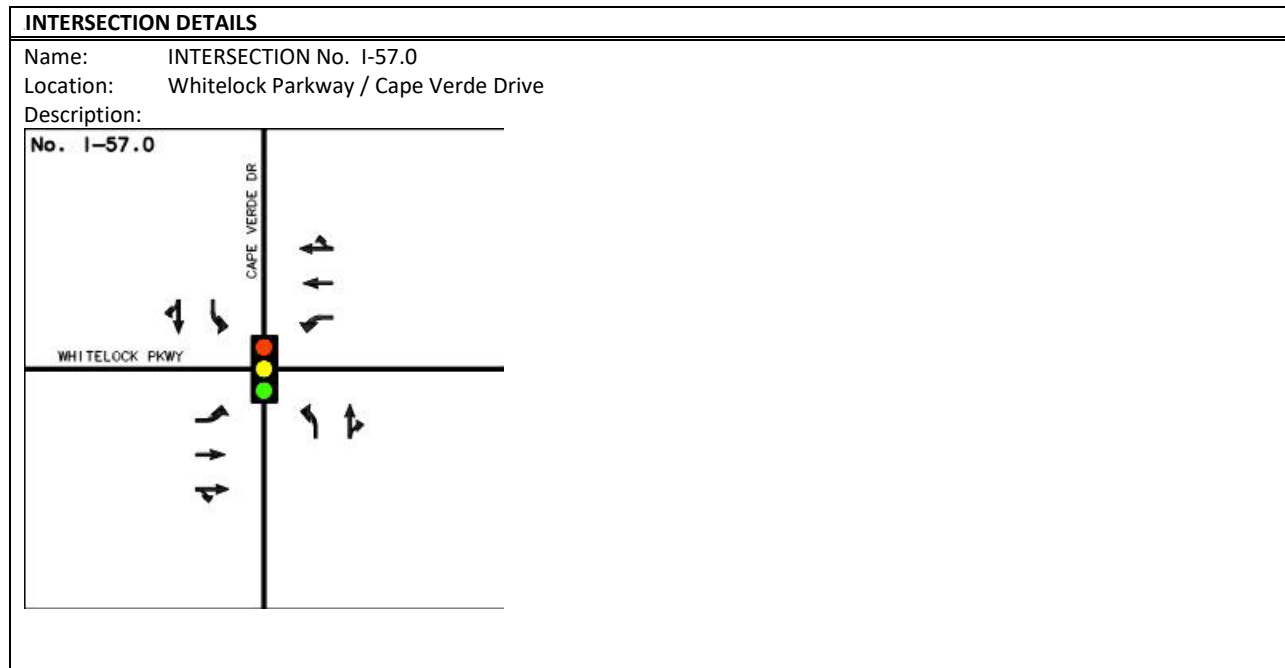
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-57.0					
Location:	Whitelock Parkway / Cape Verde Drive					
Description:	Install Traffic Signal at existing 2x4 intersection. Fiber optic cable required on Whitelock only. Whitelock will have 4-through lanes and the side streets will have 1 left turn lane with a shared through/right turn lane.					
<p>The diagram shows a T-intersection where Cape Verde Drive (No. I-57.0) meets Whitelock Parkway. Cape Verde Drive is a vertical road with a traffic signal at the intersection. Whitelock Parkway is a horizontal road. The diagram indicates lane configurations and traffic flow for both roads.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Cape Verde Drive			Residential	150	4" HMA on 13" AB
South	Cape Verde Drive			Residential	150	4" HMA on 13" AB
East	Whitelock Parkway			Minor Arterial	450	5.5" HMA on 21" AB
West	Whitelock Parkway			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	520	\$15,600.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$15,600.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	150	\$27,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$27,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,490	\$134,100.00
3.2	AGGREGATE BASE	CY	\$60.00	560	\$33,600.00
3.3	SIDEWALK	SF	\$12.00	2,700	\$32,400.00
3.4	CURB & GUTTER	LF	\$45.00	450	\$20,250.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$220,350.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$391,000.00</b>

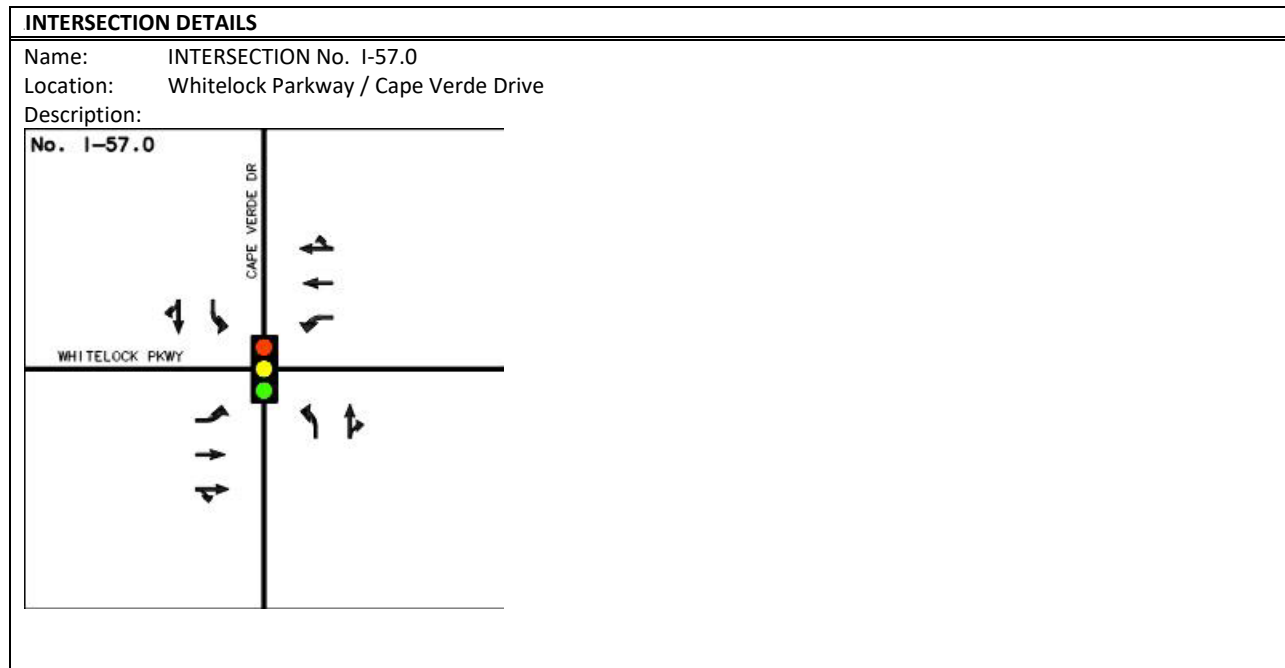
<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$65,500.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$65,500.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$720,200.00
	CONTINGENCY: 20% → \$144,100.00
	<b>TOTAL CONSTRUCTION COSTS: \$864,300.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$129,700.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$86,500.00
8.3	CALTRANS COORDINATION	LS	3%	CON. COST	\$26,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$242,200.00</b>

**TOTAL PROJECT COST \*: \$1,106,500.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$17,300.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$17,300.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$26,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$26,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$43,300.00**

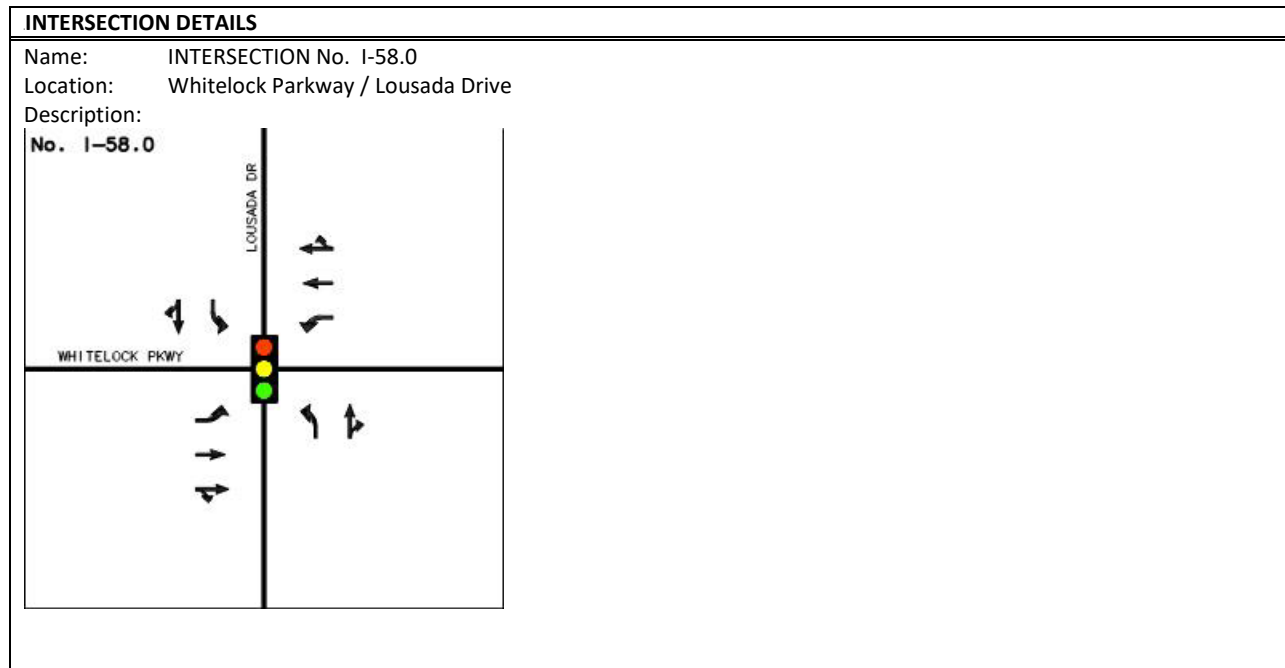
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-58.0						
Location: Whitelock Parkway / Lousada Drive						
Description: Install Traffic Signal at existitng 2x4 intersection. Fiber optic cable required on Whitelock only. Whitelock has 4-through lanes with dedicated left and shared right turn lanes. Side streets to have 1 left turn lane with shared through/right turn lane.						
<p>The diagram shows a vertical road labeled 'LOUSADA DR' and a horizontal road labeled 'WHITELOCK PKWY'. A traffic signal is located at the intersection. Arrows indicate traffic flow: on Lousada Dr, there are arrows for left, through, and right turns; on Whitelock Pkwy, there are arrows for left, through, and right turns. A traffic signal icon with red, yellow, and green lights is shown at the intersection.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Lousada Dr			Residential	150	4" HMA on 13" AB
South	Lousada Dr			Residential	150	4" HMA on 13" AB
East	Whitelock Parkway			Minor Arterial	450	5.5" HMA on 21" AB
West	Whitelock Parkway			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	750	\$22,500.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$22,500.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	150	\$27,750.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$27,750.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	1,520	\$136,800.00
3.2	AGGREGATE BASE	CY	\$60.00	590	\$35,400.00
3.3	SIDEWALK	SF	\$12.00	2,700	\$32,400.00
3.4	CURB & GUTTER	LF	\$45.00	450	\$20,250.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$224,850.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



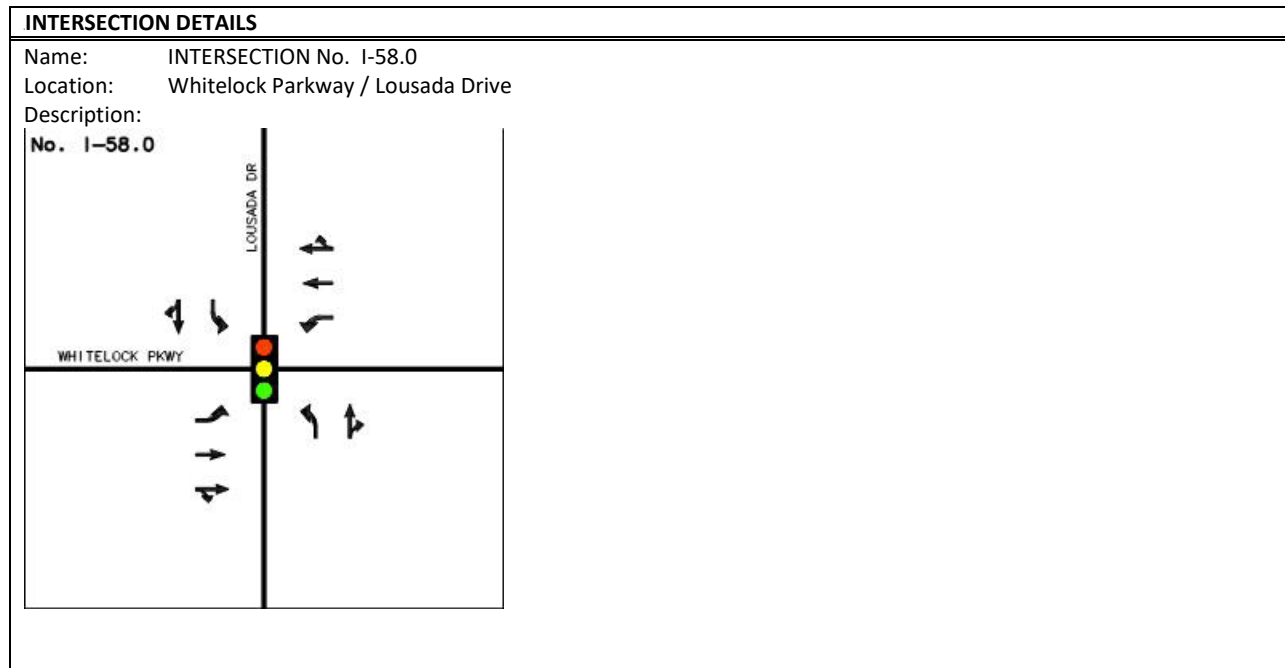
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	2	\$20,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$391,000.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$66,700.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$66,700.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY	
SUBTOTAL CONSTRUCTION COSTS:	\$732,800.00
CONTINGENCY: 20%	→ \$146,600.00
<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$879,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$132,000.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$88,000.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$220,000.00</b>

**TOTAL PROJECT COST \*: \$1,099,400.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$17,600.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$17,600.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$26,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$26,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$44,000.00**

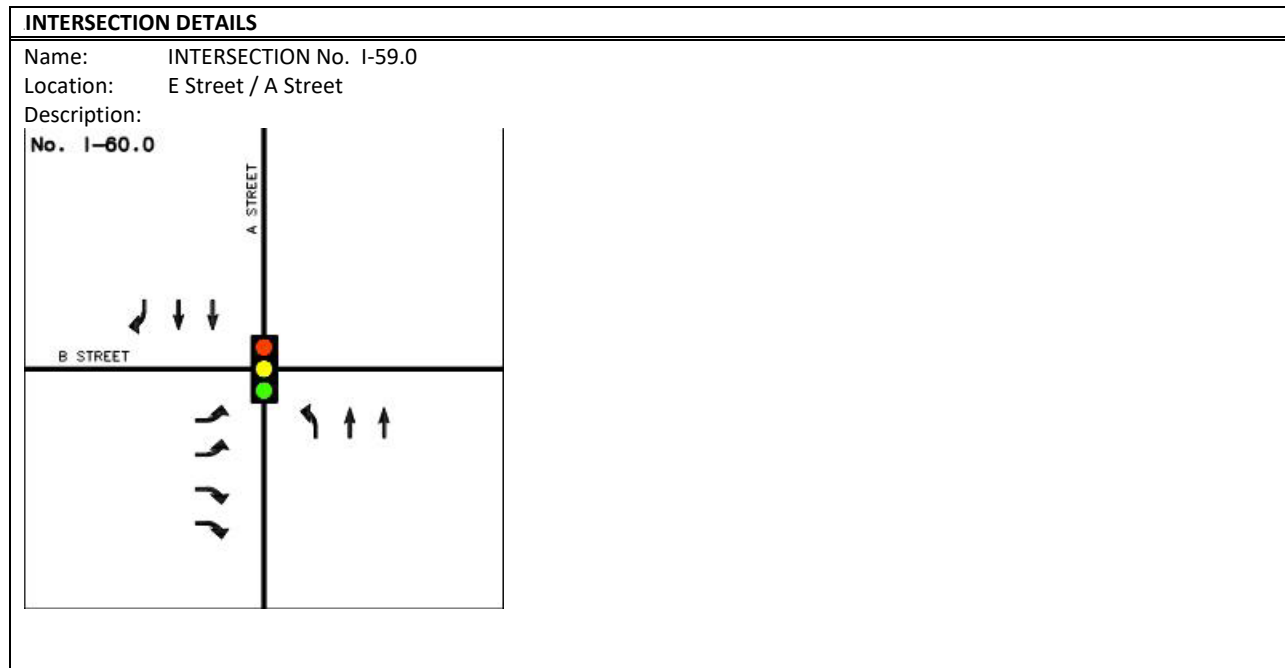
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-59.0					
Location:	E Street / A Street					
Description:	Construct 4X2 Intersection. Cross sections based on Elk Grove Sports Complex Transportation Report. No ROW acquisition.					
<p><b>No. I-60.0</b></p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	A Street			Minor Arterial	450	5.5" HMA on 21" AB
South	A Street			Minor Arterial	450	5.5" HMA on 21" AB
East	E Court			Collector	450	4" HMA on 16" AB
West	E Street			Collector	450	4" HMA on 16" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	13,010	\$390,300.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$390,300.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	2,700	\$499,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$499,500.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	4,260	\$383,400.00
3.2	AGGREGATE BASE	CY	\$60.00	8,640	\$518,400.00
3.3	SIDEWALK	SF	\$12.00	16,200	\$194,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	360	\$6,120.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,223,820.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



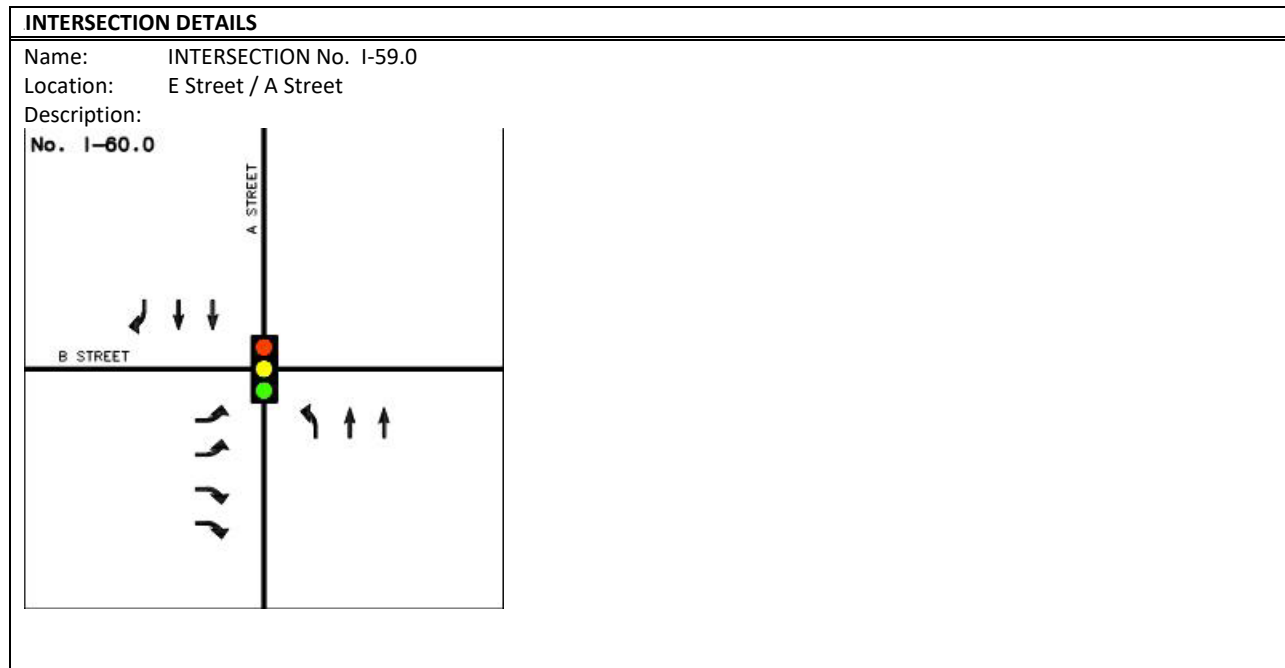
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00		\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	53,460	\$534,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,025,600.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$314,000.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$314,000.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$3,453,220.00
	CONTINGENCY: 20%	→ \$690,700.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$4,143,920.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$621,600.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$414,400.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,036,000.00</b>

**TOTAL PROJECT COST \*: \$5,180,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$82,900.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$82,900.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$124,400.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$124,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$207,300.00**

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

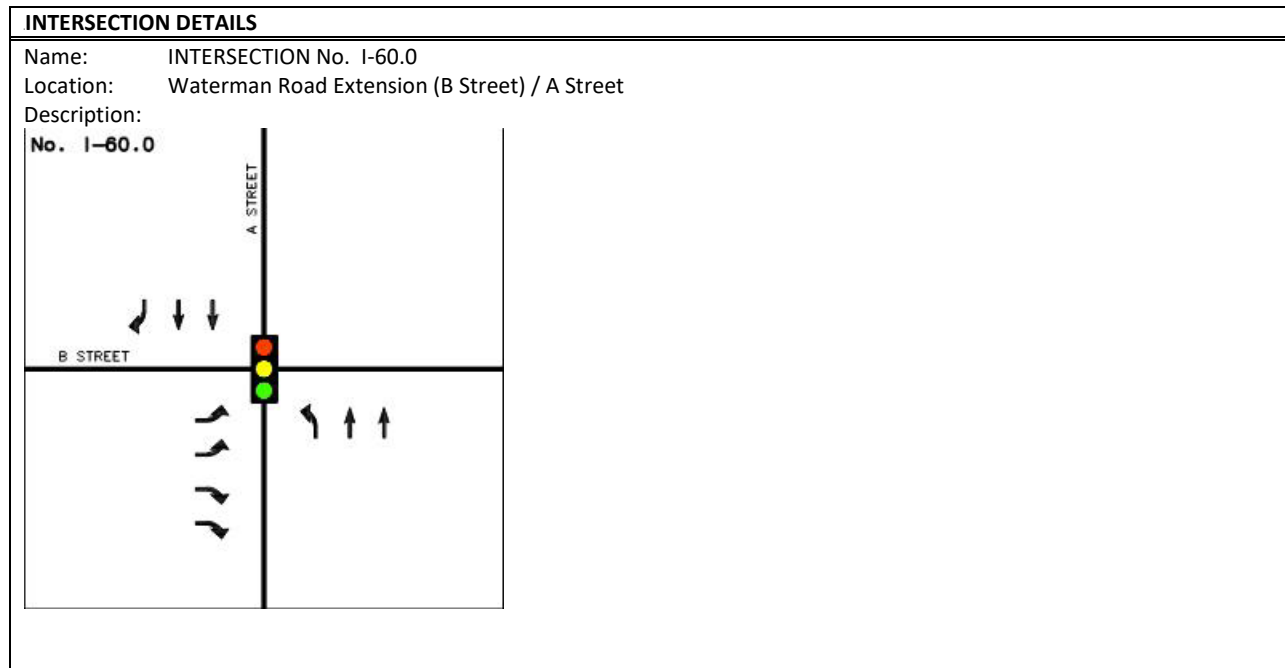
<b>INTERSECTION DETAILS</b>						
Name:	INTERSECTION No. I-60.0					
Location:	Waterman Road Extension (B Street) / A Street					
Description:	Construct 4X4 Intersection. Cross sections based on Elk Grove Sports Complex Transportation Report. No ROW acquisition.					
<p><b>No. I-60.0</b></p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	A Street			Minor Arterial	450	5.5" HMA on 21" AB
South	A Street			Minor Arterial	450	5.5" HMA on 21" AB
East	-			Minor Arterial	0	5.5" HMA on 21" AB
West	B Street			Minor Arterial	450	5.5" HMA on 21" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	11,370	\$341,100.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$341,100.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	2,700	\$499,500.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$499,500.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	3,630	\$326,700.00
3.2	AGGREGATE BASE	CY	\$60.00	7,300	\$438,000.00
3.3	SIDEWALK	SF	\$12.00	16,200	\$194,400.00
3.4	CURB & GUTTER	LF	\$45.00	2,700	\$121,500.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	360	\$6,120.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,086,720.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00		\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	12	\$120,000.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	1,000	\$56,000.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	1	\$15,000.00
4.6	LANDSCAPING	SF	\$10.00	53,460	\$534,600.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,025,600.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$295,300.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$295,300.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$3,248,220.00
	CONTINGENCY: 20%	→ \$649,700.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$3,897,920.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-60.0
Location:	Waterman Road Extension (B Street) / A Street
Description:	No. I-60.0

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$584,700.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$389,800.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$974,500.00</b>

**TOTAL PROJECT COST \*: \$4,872,500.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$78,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$78,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$117,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$117,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$195,000.00**

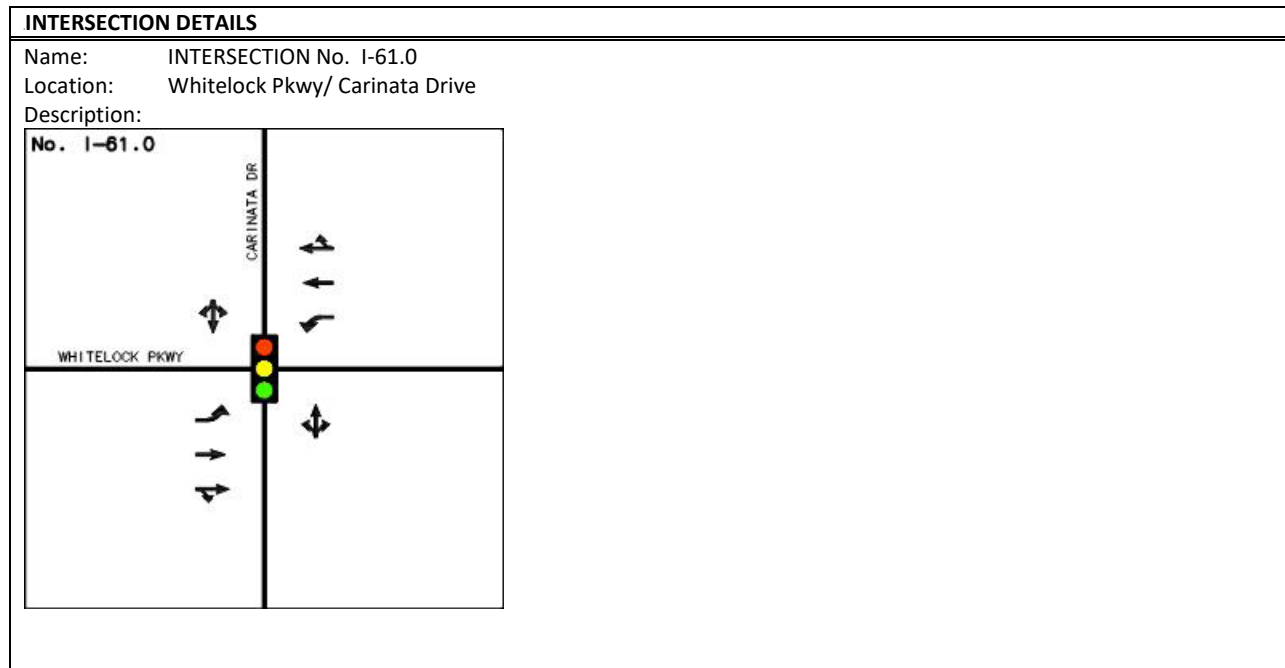
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERSECTION No. I-61.0						
Location: Whitelock Pkwy/ Carinata Drive						
Description: Install Traffic Signal at 4x2 intersection. Carinata Drive is currently stop controlled.						
Improvements will cover new signal, slurry seal and restriping only (slurry and restriping included in Item 5).						
<p>The diagram shows a 4x2 intersection. Carinata Drive runs north-south, and Whitelock Pkwy runs east-west. A traffic signal is located at the intersection. Carinata Drive has two lanes in each direction with stop signs. Whitelock Pkwy has two lanes in each direction with stop signs. The signal is currently showing a green light for northbound traffic and a red light for southbound traffic.</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	Carinata Drive			Collector	200	0" HMA on 0" AB
South	Carinata Drive			Collector	150	0" HMA on 0" AB
East	Whitelock Parkway			Minor Arterial	450	0" HMA on 0" AB
West	Whitelock Parkway			Minor Arterial	450	0" HMA on 0" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	0	\$0.00
1.2	IMPORT BORROW	CY	\$15.00	0	\$0.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$0.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	0	\$0.00
3.2	AGGREGATE BASE	CY	\$60.00	0	\$0.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$0.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00		\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00	0	\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$300,000.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$32,500.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$32,500.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500.00	0	\$0.00
6.2	RETAINING WALLS	SF	\$150.00	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$332,500.00
	CONTINGENCY: 20%	→ \$66,500.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$399,000.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>	
Name:	INTERSECTION No. I-61.0
Location:	Whitelock Pkwy/ Carinata Drive
Description:	
<p>The diagram shows a T-intersection where Carinata Drive (No. I-61.0) meets Whitelock Pkwy. Carinata Drive is a two-lane road with a center turn lane. Whitelock Pkwy is a four-lane road with a center turn lane. A traffic signal is located at the intersection, with a red light for Carinata Drive and a green light for Whitelock Pkwy. Arrows indicate traffic flow: straight and left turns for Carinata Drive, and straight, left, and right turns for Whitelock Pkwy.</p>	

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$59,900.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$39,900.00
8.3	CALTRANS COORDINATION	LS	0%	CON. COST	\$0.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$99,800.00</b>

**TOTAL PROJECT COST \*: \$498,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$40.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$8,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$8,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$12,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$12,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$20,000.00**



ATTACHMENT G – BRIDGES AND BOX CULVERTS ESTIMATES

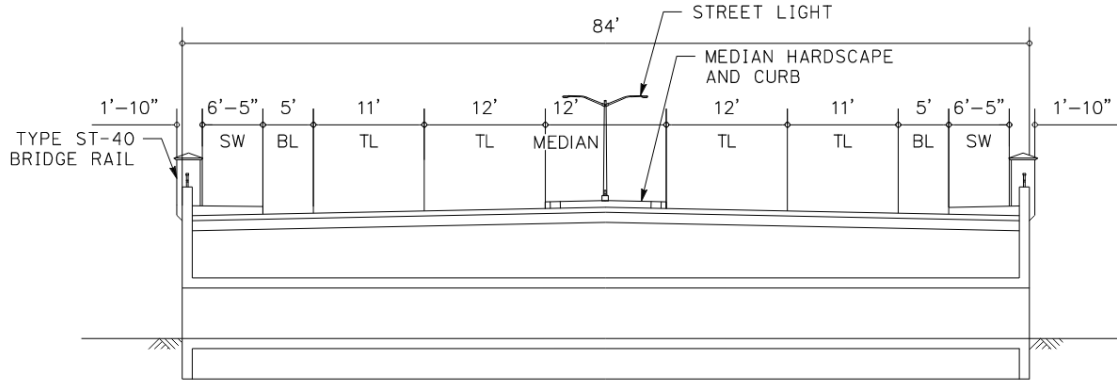


Bridge ID	Roadway ID Correspondence	Roadway		Bridge Description	Construction Cost (With 20% Contingency)	Engineering and Management Costs	Subtotal Capital Cost	R/W, Utility Relocation and Env. Mit. Costs	Combined Capital Cost + R/W, Utility Relocation, and Env. Mit. Costs	Comments
<b>Bridges Fee Program Summary</b>										
1	R-49.0, R-50.0	Lotz Parkway		Shed C	\$3,280,768.00	\$820,300.00	\$4,101,070.00	\$229,800.00	\$4,330,870.00	112' Box Culvert, 250' Approaches, 612' Total Length
2	N/A	Road B		In SEPA, Road B at Shed C	\$1,985,718.00	\$496,500.00	\$2,482,220.00	\$139,100.00	\$2,621,320.00	78' Box Culvert, 250' Approaches, 578' Total Length. Structure dimensions from Dokken Shed C Report.
3	R-7.0, R-8.0	Bilby Road		In SEPA, Bilby at Shed C	\$3,528,224.00	\$882,200.00	\$4,410,430.00	\$314,888.00	\$4,725,318.00	86' Bridge, 250' Approaches, 586' Total Length. Structure dimensions from Dokken Shed C Report.
4	R-2.0, R-3.0	Big Horn Boulevard		In SEPA, Big Horn at Shed C	\$3,528,224.00	\$882,200.00	\$4,410,430.00	\$314,888.00	\$4,725,318.00	86' Bridge, 250' Approaches, 586' Total Length. Structure dimensions from Dokken Shed C Report.
5	R-23.0, R-24.0	Bruceville Road		In SEPA, Bruceville Road at Shed C	\$2,127,480.00	\$532,000.00	\$2,659,480.00	\$706,088.00	\$3,365,568.00	45' Box Culvert, 250' Approaches, 545' Total Length. Structure dimensions from Dokken Shed C Report.
6	N/A	Laguna Ridge Crossing		In SEPA, Crossing at Laguna Ridge Outfall Channel	\$1,039,481.00	\$260,000.00	\$1,299,490.00	\$72,800.00	\$1,372,290.00	23' Box Culvert, 250' Approaches, 523' Total Length. Structure dimensions from Dokken Shed C Report.
7	N/A	Wyland Dr		In East Elk Grove, Wyland Drive crossing Elk Grove Creek	\$1,296,440.00	\$324,200.00	\$1,620,640.00	\$90,900.00	\$1,711,540.00	50' Box Culvert, 250' Approaches, 570' Total Length
8	N/A	Elk Grove Creek		In Elk Grove Triangle, culvert over Elk Grove Creek tributary	\$777,740.00	\$194,500.00	\$972,240.00	\$54,500.00	\$1,026,740.00	50' Box Culvert, 250' Approaches, 550' Total Length
<b>TOTAL COST</b>					\$17,564,075.00	\$4,391,900.00	\$21,956,000.00	\$1,922,964.00	\$23,878,964.00	

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

**Name:** Bridge 1  
**Location:** Lotz Parkway at Shed C Channel  
**Planned Improvement:** 112' x 84' Box Culvert  
**Segment Length:** 112' Box Culvert, 250' Approaches, 612' Total Length  
**Project Description:** Lotz Parkway is a planned 4 lane arterial roadway. The proposed project for the Lotz Parkway crossing at Shed C includes a 112'x84' Box Culvert. The 84' wide box culvert will be composed of a 12' hardscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter, 6' sidewalks, and 1'-10" Type ST-40 bridge rail with stone veneer pilasters in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the box culvert but with an appropriate end treatment for the bridge rail. The R/W at this location is dedicated.



BOX CULVERT SECTION

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION*	CY	\$30.00	3,840	\$115,200.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$115,200.00</b>

\* STRUCTURE EXCAVATION IS INCLUDED IN ITEM 5, STRUCTURES

<b>2 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	ASPHALT CONCRETE	TON	\$90.00	1,000	\$90,000.00
2.2	AGGREGATE BASE	CY	\$60.00	2,020	\$121,200.00
2.3	SIDEWALK	SF	\$12.00	8,000	\$96,000.00
2.4	CURB & GUTTER	LF	\$45.00	1,000	\$45,000.00
2.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,224	\$20,808.00
2.6	MEDIAN HARDSCAPE	SF	\$25.00	896	\$22,400.00
<b>TOTAL FOR ITEM 2 PAVEMENT</b>					<b>\$395,408.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 1
Location:	Lotz Parkway at Shed C Channel
Planned Improvement:	112' x 84' Box Culvert
Segment Length:	112' Box Culvert, 250' Approaches, 612' Total Length
Project Description:	Lotz Parkway is a planned 4 lane arterial roadway. The proposed project for the Lotz Parkway crossing at Shed C includes a 112'x84' Box Culvert. The 84' wide box culvert will be composed of a 12' hardscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter, 6' sidewalks, and 1'-10" Type ST-40 bridge rail with stone veneer pilasters in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the box culvert but with an appropriate end treatment for the bridge rail. The R/W at this location is dedicated.

<b>3 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
3.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
3.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
3.4	LANDSCAPING	SF	\$10.00	20,000	\$200,000.00
3.5	FIBER OPTIC CABLE	LF	\$56.00	612	\$34,272.00
<b>TOTAL FOR ITEM 3 MISCELLANEOUS</b>					<b>\$264,272.00</b>

<b>4 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
4.1	MINOR ITEMS	LS	10%	Sections 1-3	\$77,488.00
<b>TOTAL FOR ITEM 4 MINOR ITEMS</b>					<b>\$77,488.00</b>

<b>5 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
5.1	BRIDGES	SF	\$275.00	--	\$ --
5.2	CULVERTS	SF	\$200.00	9,408	\$1,881,600.00
5.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
5.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 5 STRUCTURES</b>					<b>\$1,881,600.00</b>

<b>6 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,733,968.00
			CONTINGENCY: 20%	→	\$546,800.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$3,280,768.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 1
Location:	Lotz Parkway at Shed C Channel
Planned Improvement:	112' x 84' Box Culvert
Segment Length:	112' Box Culvert, 250' Approaches, 612' Total Length
Project Description:	Lotz Parkway is a planned 4 lane arterial roadway. The proposed project for the Lotz Parkway crossing at Shed C includes a 112'x84' Box Culvert. The 84' wide box culvert will be composed of a 12' hardscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter, 6' sidewalks, and 1'-10" Type ST-40 bridge rail with stone veneer pilasters in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the box culvert but with an appropriate end treatment for the bridge rail. The R/W at this location is dedicated.

<b>7 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
7.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$492,200.00
7.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$328,100.00
<b>TOTAL FOR ITEM 7 ENGINEERING &amp; MANAGEMENT</b>					<b>\$820,300.00</b>

**TOTAL PROJECT COST \*\*: \$4,101,070.00**

\*\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>8 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
8.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
8.2	EASEMENT	SF	\$2.25	0	\$0.00
8.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
8.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 8 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>9 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
9.1	UTILITY RELOCATION	LS	2%	CON. COST	\$65,700.00
<b>TOTAL FOR ITEM 9 UTILITY RELOCATION</b>					<b>\$65,700.00</b>

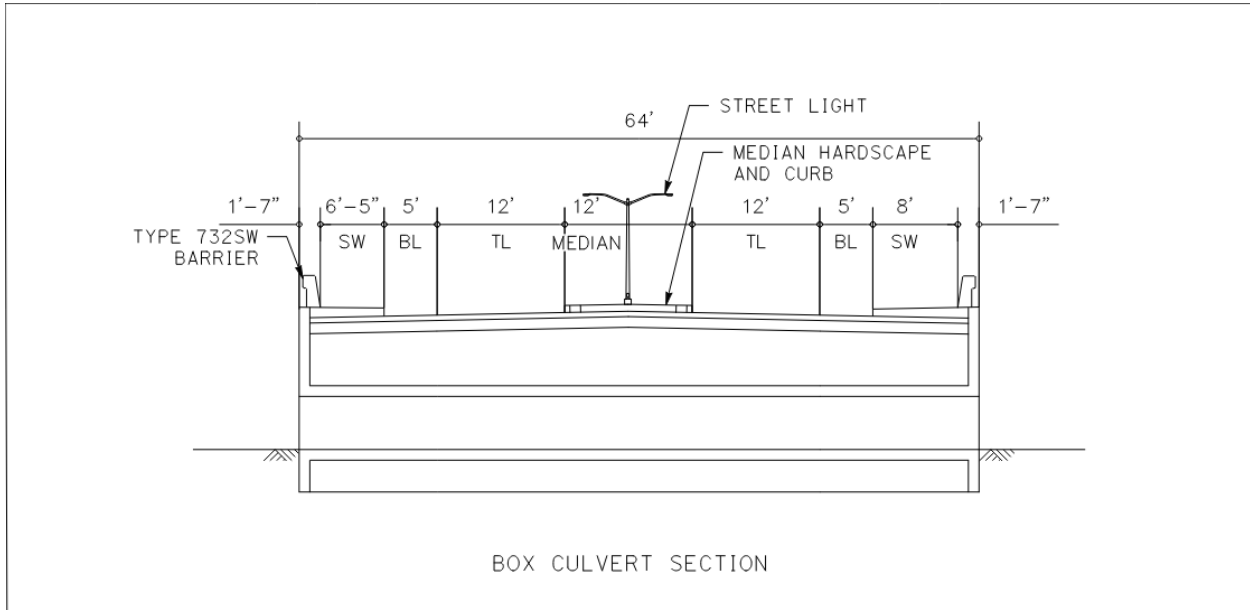
<b>10 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$164,100.00
<b>TOTAL FOR ITEM 10 ENVIRONMENTAL MITIGATION</b>					<b>\$164,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$229,800.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

**Name:** Bridge 2  
**Location:** Road B at Shed C Channel  
**Planned Improvement:** 78' x 64' Box Culvert  
**Segment Length:** 78' Box Culvert, 250' Approaches, 578' Total Length  
**Project Description:** Road B is a planned 2 lane collector roadway. The proposed project for the Road B crossing at Shed C includes a 78'x64' Box Culvert. The 64' wide box culvert will be composed of a 12' hardscape median, 12' travel lanes, 5' bike lanes, 3' curb and gutter, 6' sidewalk on northside, 8' sidewalk on southside, and 1'-10" ST-40 bridge rail with stone veneer pilasters in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the bridge but with an appropriate end treatment for the bridge rail. The R/W at this location is dedicated.



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION*	CY	\$30.00	2,700	\$81,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$81,000.00</b>

\* STRUCTURE EXCAVATION IS INCLUDED IN ITEM 5, STRUCTURES

2 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	ASPHALT CONCRETE	TON	\$90.00	440	\$39,600.00
2.2	AGGREGATE BASE	CY	\$60.00	1,030	\$61,800.00
2.3	SIDEWALK	SF	\$12.00	7,000	\$84,000.00
2.4	CURB & GUTTER	LF	\$45.00	1,000	\$45,000.00
2.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,156	\$19,652.00
2.6	MEDIAN HARDSCAPE	SF	\$25.00	624	\$15,600.00
<b>TOTAL FOR ITEM 2 PAVEMENT</b>					<b>\$265,652.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 2
Location:	Road B at Shed C Channel
Planned Improvement:	78' x 64' Box Culvert
Segment Length:	78' Box Culvert, 250' Approaches, 578' Total Length
Project Description:	Road B is a planned 2 lane collector roadway. The proposed project for the Road B crossing at Shed C includes a 78'x64' Box Culvert. The 64' wide box culvert will be composed of a 12' hardscape median, 12' travel lanes, 5' bike lanes, 3' curb and gutter, 6' sidewalk on northside, 8' sidewalk on southside, and 1'-10" ST-40 bridge rail with stone veneer pilasters in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the bridge but with an appropriate end treatment for the bridge rail. The R/W at this location is dedicated.

<b>3 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
3.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
3.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
3.4	LANDSCAPING	SF	\$10.00	22,000	\$220,000.00
3.5	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
<b>TOTAL FOR ITEM 3 MISCELLANEOUS</b>					<b>\$250,000.00</b>

<b>4 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
4.1	MINOR ITEMS	LS	10%	Sections 1-3	\$59,666.00
<b>TOTAL FOR ITEM 4 MINOR ITEMS</b>					<b>\$59,666.00</b>

<b>5 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
5.1	BRIDGES	SF	\$275.00	--	\$ --
5.2	CULVERTS	SF	\$200.00	4,992	\$998,400.00
5.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
5.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 5 STRUCTURES</b>					<b>\$998,400.00</b>

<b>6 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,654,718.00
			CONTINGENCY: 20%	→	\$331,000.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,985,718.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 2
Location:	Road B at Shed C Channel
Planned Improvement:	78' x 64' Box Culvert
Segment Length:	78' Box Culvert, 250' Approaches, 578' Total Length
Project Description:	Road B is a planned 2 lane collector roadway. The proposed project for the Road B crossing at Shed C includes a 78'x64' Box Culvert. The 64' wide box culvert will be composed of a 12' hardscape median, 12' travel lanes, 5' bike lanes, 3' curb and gutter, 6' sidewalk on northside, 8' sidewalk on southside, and 1'-10" ST-40 bridge rail with stone veneer pilasters in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the bridge but with an appropriate end treatment for the bridge rail. The R/W at this location is dedicated.

<b>7 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
7.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$297,900.00
7.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$198,600.00
<b>TOTAL FOR ITEM 7 ENGINEERING &amp; MANAGEMENT</b>					<b>\$496,500.00</b>

**TOTAL PROJECT COST \*\*: \$2,482,220.00**

\*\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>8 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
8.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
8.2	EASEMENT	SF	\$2.25	0	\$0.00
8.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
8.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 8 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>9 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
9.1	UTILITY RELOCATION	LS	2%	CON. COST	\$39,800.00
<b>TOTAL FOR ITEM 9 UTILITY RELOCATION</b>					<b>\$39,800.00</b>

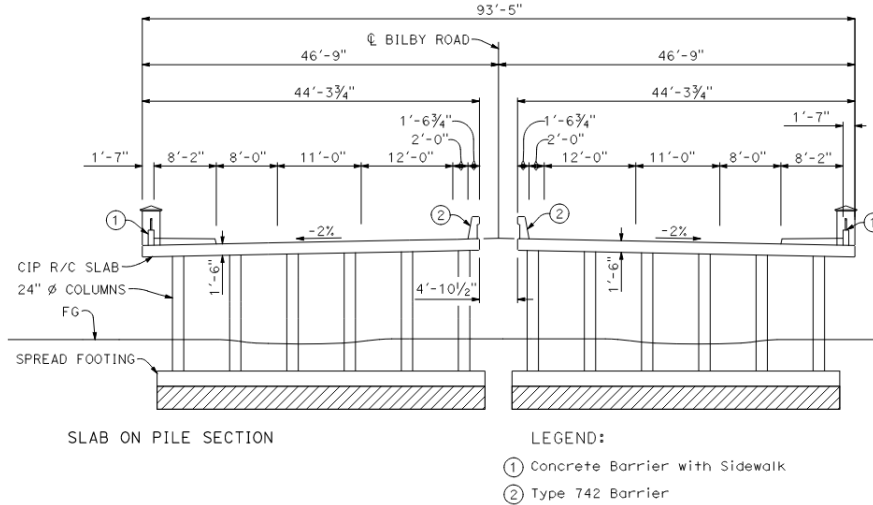
<b>10 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$99,300.00
<b>TOTAL FOR ITEM 10 ENVIRONMENTAL MITIGATION</b>					<b>\$99,300.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$139,100.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

**Name:** Bridge 3  
**Location:** Bilby Road at Shed C Channel  
**Planned Improvement:** Two 86' x 44'-3 3/4" Slab on Pile Bridges  
**Segment Length:** 86' Bridge, 250' Approaches, 586' Total Length  
**Project Description:** Bilby Road is a planned 4 lane arterial roadway. The proposed project for the Bilby Road crossing at Shed C includes two slab on pile bridges. Each bridge will be 44'-4 3/4" wide and will be composed of a 1'-6 3/4" wide Type 742 barrier, 12' inside travel lane, 11' outside travel lane, 5' bike lane, 3' curb and gutter, 8' sidewalk, and 1'-10" ST-40 bridge rail with stone veneer pilasters. The cost for these items is included in the square foot unit price for the bridges. There is a third bridge to serve the future transit corridor crossing and is not included in the project cost. The roadway approaches are 250' in length on each side of the bridges. The four lane roadway approaches include 12' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 6 ft sidewalks. The roadway approaches include appropriate end treatment for the bridge rails and median concrete barriers. The R/W on the south side of Shed C needs to be acquired. The R/W on the north side of Shed C is dedicated.



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION*	CY	\$30.00	3,840	\$115,200.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$115,200.00</b>

\* STRUCTURE EXCAVATION IS INCLUDED IN ITEM 5, STRUCTURES

2 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	ASPHALT CONCRETE	TON	\$90.00	1,000	\$90,000.00
2.2	AGGREGATE BASE	CY	\$60.00	2,020	\$121,200.00
2.3	SIDEWALK	SF	\$12.00	8,000	\$96,000.00
2.4	CURB & GUTTER	LF	\$45.00	1,000	\$45,000.00
2.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,172	\$19,924.00
2.6	MEDIAN HARDSCAPE	SF	\$25.00	688	\$17,200.00
<b>TOTAL FOR ITEM 2 PAVEMENT</b>					<b>\$389,324.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 3
Location:	Bilby Road at Shed C Channel
Planned Improvement:	Two 86' x 44'-3 3/4" Slab on Pile Bridges
Segment Length:	86' Bridge, 250' Approaches, 586' Total Length
Project Description:	Bilby Road is a planned 4 lane arterial roadway. The proposed project for the Bilby Road crossing at Shed C includes two slab on pile bridges. Each bridge will be 44'-4 3/4" wide and will be composed of a 1'-6 3/4" wide Type 742 barrier, 12' inside travel lane, 11' outside travel lane, 5' bike lane, 3' curb and gutter, 8' sidewalk, and 1'-10" ST-40 bridge rail with stone veneer pilasters. The cost for these items is included in the square foot unit price for the bridges. There is a third bridge to serve the future transit corridor crossing and is not included in the project cost. The roadway approaches are 250' in length on each side of the bridges. The four lane roadway approaches include 12' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 6 ft sidewalks. The roadway approaches include appropriate end treatment for the bridge rails and median concrete barriers. The R/W on the south side of Shed C needs to be acquired. The R/W on the north side of Shed C is dedicated.

<b>3 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
3.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
3.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
3.4	LANDSCAPING	SF	\$10.00	20,000	\$200,000.00
3.5	FIBER OPTIC CABLE	LF	\$56.00	586	\$32,816.00
<b>TOTAL FOR ITEM 3 MISCELLANEOUS</b>					<b>\$262,816.00</b>

<b>4 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
4.1	MINOR ITEMS	LS	10%	Sections 1-3	\$76,734.00
<b>TOTAL FOR ITEM 4 MINOR ITEMS</b>					<b>\$76,734.00</b>

<b>5 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
5.1	BRIDGES	SF	\$275.00	7,622	\$2,096,050.00
5.2	CULVERTS	SF	\$200.00	--	\$ --
5.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
5.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 5 STRUCTURES</b>					<b>\$2,096,050.00</b>

<b>6 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,940,124.00
			CONTINGENCY: 20%	→	\$588,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$3,528,224.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 3
Location:	Bilby Road at Shed C Channel
Planned Improvement:	Two 86' x 44'-3 3/4" Slab on Pile Bridges
Segment Length:	86' Bridge, 250' Approaches, 586' Total Length
Project Description:	Bilby Road is a planned 4 lane arterial roadway. The proposed project for the Bilby Road crossing at Shed C includes two slab on pile bridges. Each bridge will be 44'-4 3/4" wide and will be composed of a 1'-6 3/4" wide Type 742 barrier, 12' inside travel lane, 11' outside travel lane, 5' bike lane, 3' curb and gutter, 8' sidewalk, and 1'-10" ST-40 bridge rail with stone veneer pilasters. The cost for these items is included in the square foot unit price for the bridges. There is a third bridge to serve the future transit corridor crossing and is not included in the project cost. The roadway approaches are 250' in length on each side of the bridges. The four lane roadway approaches include 12' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 6 ft sidewalks. The roadway approaches include appropriate end treatment for the bridge rails and median concrete barriers. The R/W on the south side of Shed C needs to be acquired. The R/W on the north side of Shed C is dedicated.

<b>7 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
7.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$529,300.00
7.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$352,900.00
<b>TOTAL FOR ITEM 7 ENGINEERING &amp; MANAGEMENT</b>					<b>\$882,200.00</b>

**TOTAL PROJECT COST \*\*: \$4,410,430.00**

\*\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>8 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
8.1	RIGHT-OF-WAY	SF	\$2.25	18,500	\$41,625.00
8.2	EASEMENT	SF	\$2.25	0	\$0.00
8.3	ACQUISITION SOFT COST	LF	\$40.00	500	\$20,000.00
8.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$6,163.00
<b>TOTAL FOR ITEM 8 RIGHT-OF-WAY</b>					<b>\$67,788.00</b>

<b>9 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
9.1	UTILITY RELOCATION	LS	2%	CON. COST	\$70,600.00
<b>TOTAL FOR ITEM 9 UTILITY RELOCATION</b>					<b>\$70,600.00</b>

<b>10 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$176,500.00
<b>TOTAL FOR ITEM 10 ENVIRONMENTAL MITIGATION</b>					<b>\$176,500.00</b>

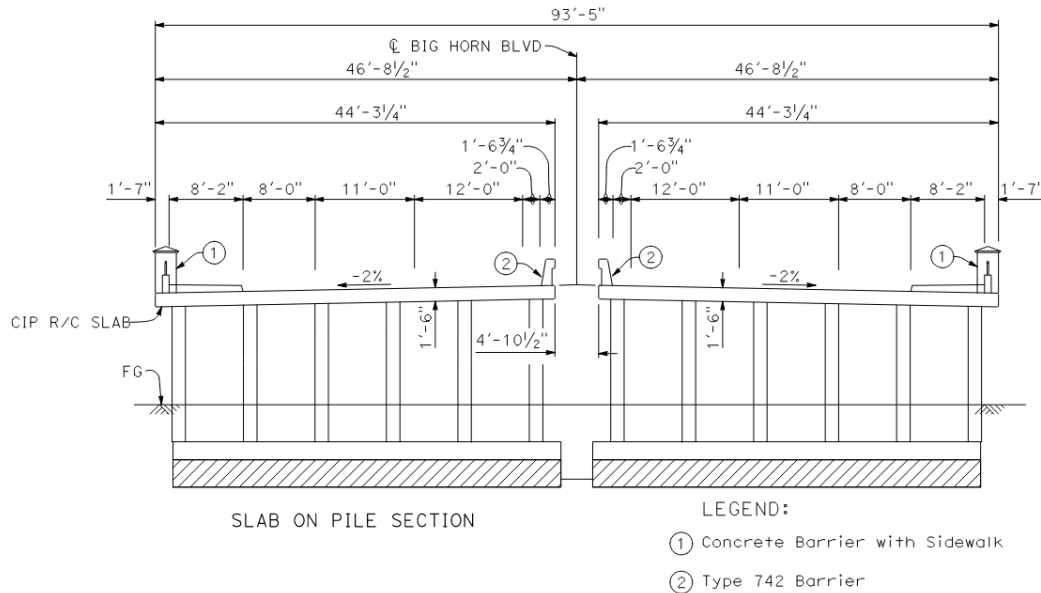
**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$314,888.00**



## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

**Name:** Bridge 4  
**Location:** Big Horn Boulevard at Shed C Channel  
**Planned Improvement:** Two 86' x 44'-3 3/4" Slab on Pile Bridges  
**Segment Length:** 86' Bridge, 250' Approaches, 586' Total Length  
**Project Description:** Big Horn Boulevard is a planned 4 lane arterial roadway. The proposed project for the Bilby Road crossing at Shed C includes two slab on pile bridges. Each bridge will be 44'-4 3/4" wide and will be composed of a 1'-6 3/4" wide Type 742 barrier, 12' inside travel lane, 11' outside travel lane, 5' bike lane, 3' curb and gutter, 8' sidewalk, and 1'-10" ST-40 bridge rail with stone veneer pilasters. The cost for these items is included in the square foot unit price for the bridges. The roadway approaches are 250' in length on each side of the bridges. The four lane roadway approaches include 12' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 6 ft sidewalks. The roadway approaches include appropriate end treatment for the bridge rails and median concrete barriers. The R/W on the south side of Shed C needs to be acquired. The R/W on the north side of Shed C is dedicated.



<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION*	CY	\$30.00	3,840	\$115,200.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$115,200.00</b>

\* STRUCTURE EXCAVATION IS INCLUDED IN ITEM 5, STRUCTURES

<b>2 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	ASPHALT CONCRETE	TON	\$90.00	1,000	\$90,000.00
2.2	AGGREGATE BASE	CY	\$60.00	2,020	\$121,200.00
2.3	SIDEWALK	SF	\$12.00	8,000	\$96,000.00
2.4	CURB & GUTTER	LF	\$45.00	1,000	\$45,000.00
2.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,172	\$19,924.00
2.6	MEDIAN HARDSCAPE	SF	\$25.00	688	\$17,200.00
<b>TOTAL FOR ITEM 2 PAVEMENT</b>					<b>\$389,324.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 4
Location:	Big Horn Boulevard at Shed C Channel
Planned Improvement:	Two 86' x 44'-3 3/4" Slab on Pile Bridges
Segment Length:	86' Bridge, 250' Approaches, 586' Total Length
Project Description:	Big Horn Boulevard is a planned 4 lane arterial roadway. The proposed project for the Bilby Road crossing at Shed C includes two slab on pile bridges. Each bridge will be 44'-4 3/4" wide and will be composed of a 1'-6 3/4" wide Type 742 barrier, 12' inside travel lane, 11' outside travel lane, 5' bike lane, 3' curb and gutter, 8' sidewalk, and 1'-10" ST-40 bridge rail with stone veneer pilasters. The cost for these items is included in the square foot unit price for the bridges. The roadway approaches are 250' in length on each side of the bridges. The four lane roadway approaches include 12' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 6 ft sidewalks. The roadway approaches include appropriate end treatment for the bridge rails and median concrete barriers. The R/W on the south side of Shed C needs to be acquired. The R/W on the north side of Shed C is dedicated.

<b>3 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
3.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
3.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
3.4	LANDSCAPING	SF	\$10.00	20,000	\$200,000.00
3.5	FIBER OPTIC CABLE	LF	\$56.00	586	\$32,816.00
<b>TOTAL FOR ITEM 3 MISCELLANEOUS</b>					<b>\$262,816.00</b>

<b>4 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
4.1	MINOR ITEMS	LS	10%	Sections 1-3	\$76,734.00
<b>TOTAL FOR ITEM 4 MINOR ITEMS</b>					<b>\$76,734.00</b>

<b>5 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
5.1	BRIDGES	SF	\$275.00	7,622	\$2,096,050.00
5.2	CULVERTS	SF	\$200.00	--	\$ --
5.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
5.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 5 STRUCTURES</b>					<b>\$2,096,050.00</b>

<b>6 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$2,940,124.00
			CONTINGENCY: 20%	→	\$588,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$3,528,224.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 4
Location:	Big Horn Boulevard at Shed C Channel
Planned Improvement:	Two 86' x 44'-3 3/4" Slab on Pile Bridges
Segment Length:	86' Bridge, 250' Approaches, 586' Total Length
Project Description:	Big Horn Boulevard is a planned 4 lane arterial roadway. The proposed project for the Bilby Road crossing at Shed C includes two slab on pile bridges. Each bridge will be 44'-4 3/4" wide and will be composed of a 1'-6 3/4" wide Type 742 barrier, 12' inside travel lane, 11' outside travel lane, 5' bike lane, 3' curb and gutter, 8' sidewalk, and 1'-10" ST-40 bridge rail with stone veneer pilasters. The cost for these items is included in the square foot unit price for the bridges. The roadway approaches are 250' in length on each side of the bridges. The four lane roadway approaches include 12' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 6 ft sidewalks. The roadway approaches include appropriate end treatment for the bridge rails and median concrete barriers. The R/W on the south side of Shed C needs to be acquired. The R/W on the north side of Shed C is dedicated.

<b>7 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
7.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$529,300.00
7.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$352,900.00
<b>TOTAL FOR ITEM 7 ENGINEERING &amp; MANAGEMENT</b>					<b>\$882,200.00</b>

**TOTAL PROJECT COST \*\*: \$4,410,430.00**

\*\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>8 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
8.1	RIGHT-OF-WAY	SF	\$2.25	18,500	\$41,625.00
8.2	EASEMENT	SF	\$2.25	0	\$0.00
8.3	ACQUISITION SOFT COST	LF	\$40.00	500	\$20,000.00
8.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$6,163.00
<b>TOTAL FOR ITEM 8 RIGHT-OF-WAY</b>					<b>\$67,788.00</b>

<b>9 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
9.1	UTILITY RELOCATION	LS	2%	CON. COST	\$70,600.00
<b>TOTAL FOR ITEM 9 UTILITY RELOCATION</b>					<b>\$70,600.00</b>

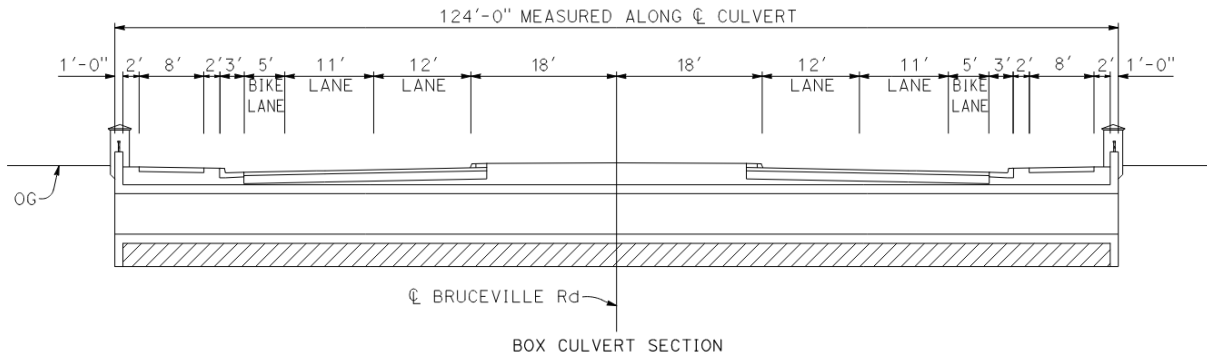
<b>10 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$176,500.00
<b>TOTAL FOR ITEM 10 ENVIRONMENTAL MITIGATION</b>					<b>\$176,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$314,888.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

**Name:** Bridge 5  
**Location:** Bruceville Road at Shed C Channel  
**Planned Improvement:** 45' x 124' Box Culvert  
**Segment Length:** 45' Box Culvert, 250' Approaches, 545' Total Length  
**Project Description:** Bruceville Road is an existing 2 lane roadway to be widened to a 4 lane arterial roadway. The proposed Bruceville Road crossing at Shed C includes a 45'x124' Box Culvert. Approaches are 250' in length on each side of the crossing and include 36' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 8 ft sidewalks. The R/W on the west side of Bruceville Road needs to be acquired.



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION*	CY	\$30.00	3,100	\$93,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$93,000.00</b>

\* STRUCTURE EXCAVATION IS INCLUDED IN ITEM 5, STRUCTURES

2 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	ASPHALT CONCRETE	TON	\$90.00	800	\$72,000.00
2.2	AGGREGATE BASE	CY	\$60.00	1,440	\$86,400.00
2.3	SIDEWALK	SF	\$12.00	8,000	\$96,000.00
2.4	CURB & GUTTER	LF	\$45.00	1,000	\$45,000.00
2.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,000	\$17,000.00
2.6	MEDIAN HARDSCAPE	SF	\$25.00	0	\$0.00
<b>TOTAL FOR ITEM 2 PAVEMENT</b>					<b>\$316,400.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 5
Location:	Bruceville Road at Shed C Channel
Planned Improvement:	45' x 124' Box Culvert
Segment Length:	45' Box Culvert, 250' Approaches, 545' Total Length
Project Description:	Bruceville Road is an existing 2 lane roadway to be widened to a 4 lane arterial roadway. The proposed Bruceville Road crossing at Shed C includes a 45'x124' Box Culvert. Approaches are 250' in length on each side of the crossing and include 36' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 8 ft sidewalks. The R/W on the west side of Bruceville Road needs to be acquired.

<b>3 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
3.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
3.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
3.4	LANDSCAPING	SF	\$10.00	8,000	\$80,000.00
3.5	FIBER OPTIC CABLE	LF	\$56.00	500	\$28,000.00
<b>TOTAL FOR ITEM 3 MISCELLANEOUS</b>					<b>\$138,000.00</b>

<b>4 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
4.1	MINOR ITEMS	LS	20%	Sections 1-3	\$109,480.00
<b>TOTAL FOR ITEM 4 MINOR ITEMS</b>					<b>\$109,480.00</b>

<b>5 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
5.1	BRIDGES	SF	\$275.00	--	\$ --
5.2	CULVERTS	SF	\$200.00	5,580	\$1,116,000.00
5.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
5.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 5 STRUCTURES</b>					<b>\$1,116,000.00</b>

<b>6 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,772,880.00
			CONTINGENCY: 20%	→	\$354,600.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$2,127,480.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 5
Location:	Bruceville Road at Shed C Channel
Planned Improvement:	45' x 124' Box Culvert
Segment Length:	45' Box Culvert, 250' Approaches, 545' Total Length
Project Description:	Bruceville Road is an existing 2 lane roadway to be widened to a 4 lane arterial roadway. The proposed Bruceville Road crossing at Shed C includes a 45'x124' Box Culvert. Approaches are 250' in length on each side of the crossing and include 36' landscape median, 12' inside travel lanes, 11' outside travel lanes, 5' bike lanes, 3' curb and gutter and 8 ft sidewalks. The R/W on the west side of Bruceville Road needs to be acquired.

<b>7 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
7.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$319,200.00
7.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$212,800.00
<b>TOTAL FOR ITEM 7 ENGINEERING &amp; MANAGEMENT</b>					<b>\$532,000.00</b>

**TOTAL PROJECT COST \*\*: \$2,659,480.00**

\*\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>8 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
8.1	RIGHT-OF-WAY	SF	\$2.25	18,500	\$41,625.00
8.2	EASEMENT	SF	\$2.25	0	\$0.00
8.3	ACQUISITION SOFT COST	LF	\$40.00	500	\$20,000.00
8.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$6,163.00
<b>TOTAL FOR ITEM 8 RIGHT-OF-WAY</b>					<b>\$67,788.00</b>

<b>9 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
9.1	UTILITY RELOCATION	LS	25%	CON. COST	\$531,900.00
<b>TOTAL FOR ITEM 9 UTILITY RELOCATION</b>					<b>\$531,900.00</b>

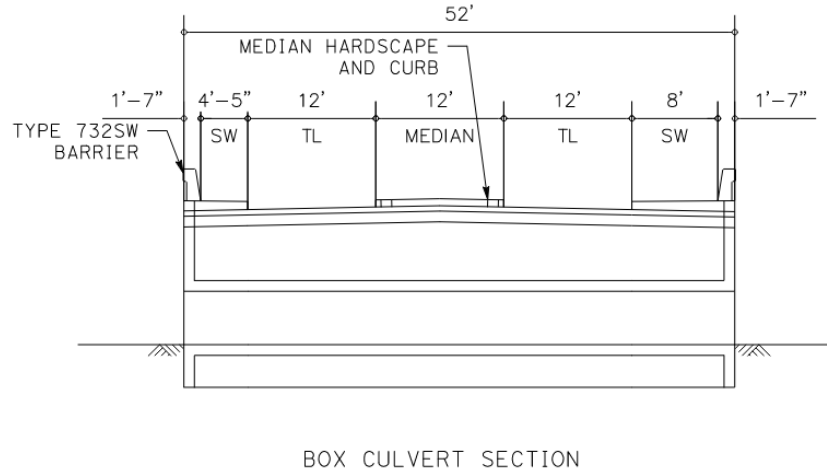
<b>10 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$106,400.00
<b>TOTAL FOR ITEM 10 ENVIRONMENTAL MITIGATION</b>					<b>\$106,400.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$706,088.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

**Name:** Bridge 6  
**Location:** Laguna Ridge Crossing at Laguna Ridge Outfall Channel  
**Planned Improvement:** 23' x 52' Box Culvert  
**Segment Length:** 23' Box Culvert, 250' Approaches, 523' Total Length  
**Project Description:** Laguna Ridge Crossing is a planned 2 lane primary residential roadway. The proposed project for the Laguna Ridge crossing at Laguna Ridge South Outfall includes a 22'-6"x52'box culvert. The 48' wide box culvert will be composed of a 12' landscape median, 12' travel lanes, 4'-5" sidewalk on northside, 8' sidewalk on southside, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include a the same cross section that is on the box culvert. The R/W at this location is dedicated.



1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION*	CY	\$30.00	2,680	\$80,400.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$80,400.00</b>

\* STRUCTURE EXCAVATION IS INCLUDED IN ITEM 5, STRUCTURES

2 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	ASPHALT CONCRETE	TON	\$90.00	440	\$39,600.00
2.2	AGGREGATE BASE	CY	\$60.00	1,010	\$60,600.00
2.3	SIDEWALK	SF	\$12.00	6,000	\$72,000.00
2.4	CURB & GUTTER	LF	\$45.00	1,000	\$45,000.00
2.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	1,046	\$17,782.00
2.6	MEDIAN HARDSCAPE	SF	\$25.00	184	\$4,600.00
<b>TOTAL FOR ITEM 2 PAVEMENT</b>					<b>\$239,582.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 6
Location:	Laguna Ridge Crossing at Laguna Ridge Outfall Channel
Planned Improvement:	23' x 52' Box Culvert
Segment Length:	23' Box Culvert, 250' Approaches, 523' Total Length
Project Description:	Laguna Ridge Crossing is a planned 2 lane primary residential roadway. The proposed project for the Laguna Ridge crossing at Laguna Ridge South Outfall includes a 22'-6"x52'box culvert. The 48' wide box culvert will be composed of a 12' landscape median, 12' travel lanes, 4'-5" sidewalk on northside, 8' sidewalk on southside, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include a the same cross section that is on the box culvert. The R/W at this location is dedicated.

<b>3 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
3.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
3.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
3.4	LANDSCAPING	SF	\$10.00	22,000	\$220,000.00
3.5	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
<b>TOTAL FOR ITEM 3 MISCELLANEOUS</b>					<b>\$250,000.00</b>

<b>4 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
4.1	MINOR ITEMS	LS	10%	Sections 1-3	\$56,999.00
<b>TOTAL FOR ITEM 4 MINOR ITEMS</b>					<b>\$56,999.00</b>

<b>5 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
5.1	BRIDGES	SF	\$275.00	--	\$ --
5.2	CULVERTS	SF	\$200.00	1,196	\$239,200.00
5.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
5.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 5 STRUCTURES</b>					<b>\$239,200.00</b>

<b>6 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$866,181.00
			CONTINGENCY: 20%	→	\$173,300.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,039,481.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 6
Location:	Laguna Ridge Crossing at Laguna Ridge Outfall Channel
Planned Improvement:	23' x 52' Box Culvert
Segment Length:	23' Box Culvert, 250' Approaches, 523' Total Length
Project Description:	Laguna Ridge Crossing is a planned 2 lane primary residential roadway. The proposed project for the Laguna Ridge crossing at Laguna Ridge South Outfall includes a 22'-6"x52' box culvert. The 48' wide box culvert will be composed of a 12' landscape median, 12' travel lanes, 4'-5" sidewalk on northside, 8' sidewalk on southside, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include a the same cross section that is on the box culvert. The R/W at this location is dedicated.

<b>7 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
7.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$156,000.00
7.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$104,000.00
<b>TOTAL FOR ITEM 7 ENGINEERING &amp; MANAGEMENT</b>					<b>\$260,000.00</b>

**TOTAL PROJECT COST \*\*: \$1,299,490.00**

\*\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>8 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
8.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
8.2	EASEMENT	SF	\$2.25	0	\$0.00
8.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
8.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 8 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>9 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
9.1	UTILITY RELOCATION	LS	2%	CON. COST	\$20,800.00
<b>TOTAL FOR ITEM 9 UTILITY RELOCATION</b>					<b>\$20,800.00</b>

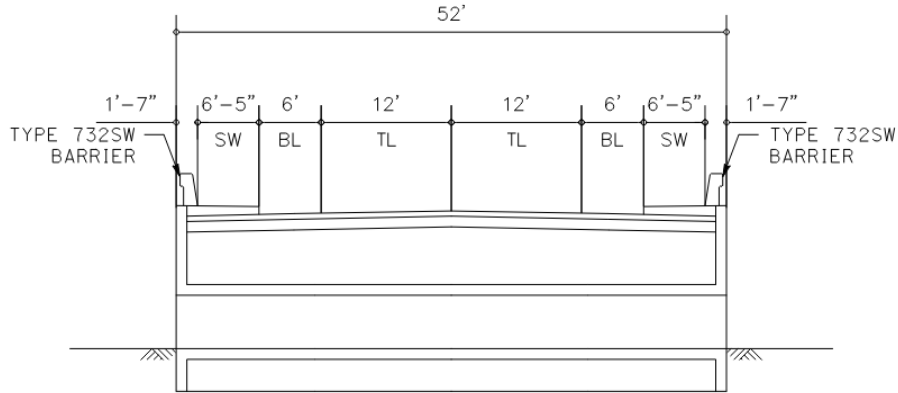
<b>10 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$52,000.00
<b>TOTAL FOR ITEM 10 ENVIRONMENTAL MITIGATION</b>					<b>\$52,000.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$72,800.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

**Name:** Bridge 7  
**Location:** Wyland Drive at Elk Grove Creek  
**Planned Improvement:** 50' x 52' Box Culvert  
**Segment Length:** 50' Box Culvert, 250' Approaches, 570' Total Length  
**Project Description:** Wyland Drive is a planned 2 lane primary residential roadway. The proposed project for the Wyland Drive crossing at Elk Grove Creek includes a 50'x52' Box Culvert. The 52' wide box culvert will be composed of a 12' travel lanes, 6' bike lanes, 6' 5" sidewalks, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the box culvert. The R/W at this location is dedicated.



BOX CULVERT SECTION

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION*	CY	\$30.00	2,370	\$71,100.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$71,100.00</b>

\* STRUCTURE EXCAVATION IS INCLUDED IN ITEM 5, STRUCTURES

<b>2 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	ASPHALT CONCRETE	TON	\$90.00	470	\$42,300.00
2.2	AGGREGATE BASE	CY	\$60.00	1,070	\$64,200.00
2.3	SIDEWALK	SF	\$12.00	6,400	\$76,800.00
2.4	CURB & GUTTER	LF	\$45.00	1,000	\$45,000.00
2.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
2.6	MEDIAN HARDSCAPE	SF	\$25.00	0	\$0.00
<b>TOTAL FOR ITEM 2 PAVEMENT</b>					<b>\$228,300.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 7
Location:	Wyland Drive at Elk Grove Creek
Planned Improvement:	50' x 52' Box Culvert
Segment Length:	50' Box Culvert, 250' Approaches, 570' Total Length
Project Description:	Wyland Drive is a planned 2 lane primary residential roadway. The proposed project for the Wyland Drive crossing at Elk Grove Creek includes a 50'x52' Box Culvert. The 52' wide box culvert will be composed of a 12' travel lanes, 6' bike lanes, 6' 5" sidewalks, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the box culvert. The R/W at this location is dedicated.

<b>3 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
3.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
3.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
3.4	LANDSCAPING	SF	\$10.00	18,000	\$180,000.00
3.5	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
<b>TOTAL FOR ITEM 3 MISCELLANEOUS</b>					<b>\$210,000.00</b>

<b>4 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
4.1	MINOR ITEMS	LS	10%	Sections 1-3	\$50,940.00
<b>TOTAL FOR ITEM 4 MINOR ITEMS</b>					<b>\$50,940.00</b>

<b>5 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
5.1	BRIDGES	SF	\$275.00	--	\$ --
5.2	CULVERTS	SF	\$200.00	2,600	\$520,000.00
5.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
5.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 5 STRUCTURES</b>					<b>\$520,000.00</b>

<b>6 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$1,080,340.00
			CONTINGENCY: 20%	→	\$216,100.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$1,296,440.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 7
Location:	Wyland Drive at Elk Grove Creek
Planned Improvement:	50' x 52' Box Culvert
Segment Length:	50' Box Culvert, 250' Approaches, 570' Total Length
Project Description:	Wyland Drive is a planned 2 lane primary residential roadway. The proposed project for the Wyland Drive crossing at Elk Grove Creek includes a 50'x52' Box Culvert. The 52' wide box culvert will be composed of a 12' travel lanes, 6' bike lanes, 6' 5" sidewalks, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include the same cross section that is on the box culvert. The R/W at this location is dedicated.

<b>7 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
7.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$194,500.00
7.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$129,700.00
<b>TOTAL FOR ITEM 7 ENGINEERING &amp; MANAGEMENT</b>					<b>\$324,200.00</b>

**TOTAL PROJECT COST \*\*: \$1,620,640.00**

\*\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>8 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
8.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
8.2	EASEMENT	SF	\$2.25	0	\$0.00
8.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
8.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 8 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>9 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
9.1	UTILITY RELOCATION	LS	2%	CON. COST	\$26,000.00
<b>TOTAL FOR ITEM 9 UTILITY RELOCATION</b>					<b>\$26,000.00</b>

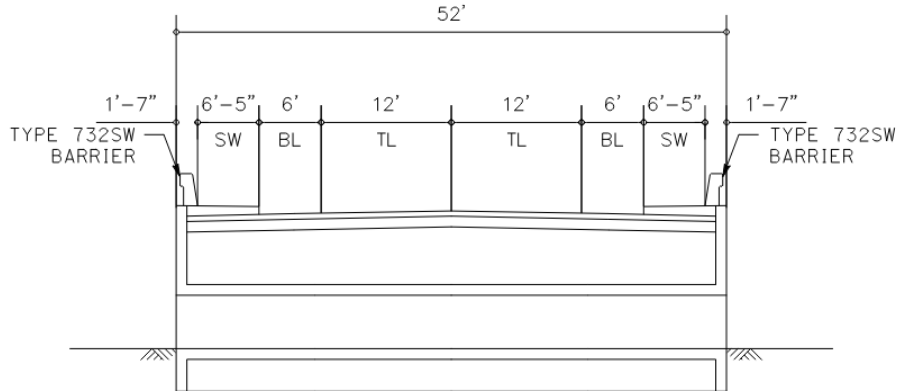
<b>10 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$64,900.00
<b>TOTAL FOR ITEM 10 ENVIRONMENTAL MITIGATION</b>					<b>\$64,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$90,900.00**

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

### SEGMENT DETAILS

**Name:** Bridge 8  
**Location:** Ridgerock Drive at Elk Grove Creek  
**Planned Improvement:** 50' x 52' Box Culvert  
**Segment Length:** 50' Box Culvert, 250' Approaches, 550' Total Length  
**Project Description:** Elk Grove Triangle Road is a planned 2 lane primary residential roadway. The proposed project for the Elk Grove Triangle Road crossing at Elk Grove Creek includes a 50'x52' Box Culvert. The 52' wide box culvert will be composed of a 12' lanes, 6' bike lanes, 6'-5" sidewalks, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include a 12' travel lane in each direction. The R/W at this location is dedicated.



BOX CULVERT SECTION

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION*	CY	\$30.00	750	\$22,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$22,500.00</b>

\* STRUCTURE EXCAVATION IS INCLUDED IN ITEM 5, STRUCTURES

<b>2 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	ASPHALT CONCRETE	TON	\$90.00	310	\$27,900.00
2.2	AGGREGATE BASE	CY	\$60.00	600	\$36,000.00
2.3	SIDEWALK	SF	\$12.00	0	\$0.00
2.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
2.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
2.6	MEDIAN HARDSCAPE	SF	\$25.00	0	\$0.00
<b>TOTAL FOR ITEM 2 PAVEMENT</b>					<b>\$63,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 8
Location:	Ridgerock Drive at Elk Grove Creek
Planned Improvement:	50' x 52' Box Culvert
Segment Length:	50' Box Culvert, 250' Approaches, 550' Total Length
Project Description:	Elk Grove Triangle Road is a planned 2 lane primary residential roadway. The proposed project for the Elk Grove Triangle Road crossing at Elk Grove Creek includes a 50'x52' Box Culvert. The 52' wide box culvert will be composed of a 12' lanes, 6' bike lanes, 6'-5" sidewalks, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include a 12' travel lane in each direction. The R/W at this location is dedicated.

<b>3 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	TRAFFIC SIGNAL	LS	\$300,000.00	0	\$0.00
3.2	TRAFFIC SIGNAL MODIFICATION	LS	\$250,000.00	0	\$0.00
3.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	3	\$30,000.00
3.4	LANDSCAPING	SF	\$10.00	0	\$0.00
3.5	FIBER OPTIC CABLE	LF	\$56.00	0	\$0.00
<b>TOTAL FOR ITEM 3 MISCELLANEOUS</b>					<b>\$30,000.00</b>

<b>4 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
4.1	MINOR ITEMS	LS	10%	Sections 1-3	\$11,640.00
<b>TOTAL FOR ITEM 4 MINOR ITEMS</b>					<b>\$11,640.00</b>

<b>5 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
5.1	BRIDGES	SF	\$275.00	--	\$ --
5.2	CULVERTS	SF	\$200.00	2,600	\$520,000.00
5.3	AT-GRADE RAILROADS CROSSING	LS	\$ --	--	\$ --
5.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$ --	--	\$ --
<b>TOTAL FOR ITEM 5 STRUCTURES</b>					<b>\$520,000.00</b>

<b>6 CONTINGENCY</b>					
			SUBTOTAL CONSTRUCTION COSTS:		\$648,040.00
			CONTINGENCY: 20%	→	\$129,700.00
			<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$777,740.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Bridge 8
Location:	Ridgerock Drive at Elk Grove Creek
Planned Improvement:	50' x 52' Box Culvert
Segment Length:	50' Box Culvert, 250' Approaches, 550' Total Length
Project Description:	Elk Grove Triangle Road is a planned 2 lane primary residential roadway. The proposed project for the Elk Grove Triangle Road crossing at Elk Grove Creek includes a 50'x52' Box Culvert. The 52' wide box culvert will be composed of a 12' lanes, 6' bike lanes, 6'-5" sidewalks, and 1'-7" Type 732SW barriers in each direction. The cost for these items is included in the square foot unit price for the box culvert. The roadway approaches are 250' in length on each side of the crossing and include a 12' travel lane in each direction. The R/W at this location is dedicated.

<b>7 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
7.1	TOTAL ENGINEERING & SURVEY	LS	15%	CON. COST	\$116,700.00
7.2	TOTAL STAKING, PERMITTING, & INSPECTION	LS	10%	CON. COST	\$77,800.00
<b>TOTAL FOR ITEM 7 ENGINEERING &amp; MANAGEMENT</b>					<b>\$194,500.00</b>

**TOTAL PROJECT COST \*\*: \$972,240.00**

\*\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>8 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
8.1	RIGHT-OF-WAY	SF	\$2.25	0	\$0.00
8.2	EASEMENT	SF	\$2.25	0	\$0.00
8.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
8.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 8 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>9 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
9.1	UTILITY RELOCATION	LS	2%	CON. COST	\$15,600.00
<b>TOTAL FOR ITEM 9 UTILITY RELOCATION</b>					<b>\$15,600.00</b>

<b>10 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	ENVIRONMENTAL MITIGATION	LS	5%	CON. COST	\$38,900.00
<b>TOTAL FOR ITEM 10 ENVIRONMENTAL MITIGATION</b>					<b>\$38,900.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$54,500.00**



ATTACHMENT H –AUXILARY LANES ESTIMATES





ATTACHMENT H - AUXILIARY LANES ESTIMATES

AUX Lane No.	Roadway Correspondence	Limits/Location	Description	Length (LF)	Construction Cost (With 20% Contingency)	Engineering (15%) and Const Management Cost (15%)	Subtotal Capital Cost	Right of Way, Utility Relocation, and Environmental Mitigation Cost	Combined Capital Cost + R/W, Utility Relocation, and Environmental Mitigation Cost
<b>Auxiliary Lanes Fee Program Summary - DRAFT</b>									
A-1.0	SR 99 (A-1.0, A-2.0, A-6.0, & A-7.0 are included in Whitelock Pkwy Interchange. A-3.0, A-4.0, & A-5.0 are part of a \$2.361M grant received by the City)	NB SR 99 - Grant Line Road to Whitelock Parkway	Construct Interchange-to-Interchange Auxiliary Lane	4,970	-	-	-	-	-
A-2.0		NB SR 99 - Whitelock Parkway to Elk Grove Boulevard	Construct Interchange-to-Interchange Auxiliary Lane	4,043	-	-	-	-	-
A-3.0		NB SR 99 - Elk Grove Boulevard to Bond Road	Construct Interchange-to-Interchange Auxiliary Lane	2,016	-	-	-	-	-
A-4.0		NB SR 99 - Bond Road to Sheldon Road	Construct Interchange-to-Interchange Auxiliary Lane	2,174	-	-	-	-	-
A-5.0		NB SR 99 - Sheldon Road to Calvine Road	Construct Interchange-to-Interchange Auxiliary Lane	3,486	-	-	-	-	-
A-6.0		SB SR 99 - Elk Grove Boulevard to Whitelock Parkway	Construct Interchange-to-Interchange Auxiliary Lane	4,441	-	-	-	-	-
A-7.0		SB SR 99 - Whitelock Parkway to Grant Line Road	Construct Interchange-to-Interchange Auxiliary Lane	5,243	-	-	-	-	\$2,361,000
A-8.0	I-5	NB I-5 – Hood Franklin Road to Elk Grove Boulevard	Construct Interchange-to-Interchange Auxiliary Lane	9,572	\$4,946,800	\$1,484,200	\$6,431,000	\$247,500	\$6,678,500
A-9.0		SB I-5 – Elk Grove Boulevard to Hood Franklin Road	Construct Interchange-to-Interchange Auxiliary Lane	10,469	\$5,720,600	\$1,716,200	\$7,436,800	\$286,200	\$7,723,000
<b>TOTAL COST</b>					<b>\$10,667,400</b>	<b>\$3,200,400</b>	<b>\$13,867,800</b>	<b>\$533,700</b>	<b>\$16,762,500</b>

## Conceptual Cost Estimate Summary – EG Auxiliary Lane Fee Study

SEGMENT DETAILS	
Name:	Segment A-8.0
Location:	NB I-5 – Hood Franklin Road to Elk Grove Boulevard
Segment Length:	9,572 Feet
Project Description:	Construct Interchange-to-Interchange Auxiliary Lane. Cost includes construction staging cost to shift mainline traffic while building aux lane. Drainage cost is included in roadway excavation cost as ditches.
New pavement width:	23 Feet

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	19,057	\$571,710.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$571,710.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	13,770	\$1,239,300.00
3.2	AGGREGATE BASE	CY	\$60	13,050	\$783,000.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,022,300.00</b>

4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	1	\$10,000.00
4.2	RELOCATE STREET LIGHTS	EA	\$10,000.00	0	\$0.00
4.3	OVERHEAD SIGNS	EA	\$250,000.00	1	\$250,000.00
4.4	MIDWEST GUARDRAIL SYSTEM	LF	\$38.00	75	\$2,850.00
4.5	FENCES (TYPE CL-6)	LF	\$23.00	0	\$0.00
4.6	CONCRETE BARRIER (TYPE 60) WITH TYPE CL-6 FENCE	LF	\$110.00	0	\$0.00
4.7	REMOVE FENCE	LF	\$20.00	0	\$0.00
4.8	REMOVE BARRIER	LF	\$50.00	0	\$0.00
4.10	EMABNKMENT EARTHWORK	CY	\$15.00	4,191	\$62,860.00
4.11	CONSTRUCTION STAGING	LS	\$827,700.00	1	\$827,700.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,153,410.00</b>

**Conceptual Cost Estimate Summary – EG Auxiliary Lane Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Segment A-8.0
Location:	NB I-5 – Hood Franklin Road to Elk Grove Boulevard
Segment Length:	9,572 Feet
Project Description:	Construct Interchange-to-Interchange Auxiliary Lane. Cost includes construction staging cost to shift mainline traffic while building aux lane. Drainage cost is included in roadway excavation cost as ditches.
New pavement width:	23 Feet

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$374,800.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$374,800.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	AT-GRADE RAILROADS CROSSING	LS	\$0.00	0	\$0.00
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$4,122,220.00
	CONTINGENCY: 20% → \$824,500.00
	<b>TOTAL CONSTRUCTION COSTS: \$4,946,800.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$742,100.00
8.2	TOTAL STAKING, PERMITTING, AND INSPECTION	LS	15%	CON. COST	\$742,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,484,200.00</b>

**TOTAL PROJECT COST \*: \$6,431,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Auxiliary Lane Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Segment A-8.0
Location:	NB I-5 – Hood Franklin Road to Elk Grove Boulevard
Segment Length:	9,572 Feet
Project Description:	Construct Interchange-to-Interchange Auxiliary Lane. Cost includes construction staging cost to shift mainline traffic while building aux lane. Drainage cost is included in roadway excavation cost as ditches.
New pavement width:	23 Feet

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$0.00	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$99,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$99,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$148,500.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$148,500.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$247,500.00**

## Conceptual Cost Estimate Summary – EG Auxiliary Lane Fee Study

SEGMENT DETAILS	
Name:	Segment A-9.0
Location:	SB I-5 – Elk Grove Boulevard to Hood Franklin Road
Segment Length:	10,469 Feet
Project Description:	Construct Interchange-to-Interchange Auxiliary Lane. Cost includes construction staging cost to shift mainline traffic while building aux lane. Drainage cost is included in roadway excavation cost as ditches.
New pavement width:	23 Feet

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	20,841	\$625,230.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$625,230.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$0.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	15,060	\$1,355,400.00
3.2	AGGREGATE BASE	CY	\$60	14,270	\$856,200.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,211,600.00</b>

4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	1	\$10,000.00
4.2	RELOCATE STREET LIGHTS	EA	\$10,000.00	1	\$10,000.00
4.3	OVERHEAD SIGNS	EA	\$250,000.00	2	\$500,000.00
4.4	MIDWEST GUARDRAIL SYSTEM	LF	\$38.00	75	\$2,850.00
4.5	FENCES (TYPE CL-6)	LF	\$23.00	0	\$0.00
4.6	CONCRETE BARRIER (TYPE 60) WITH TYPE CL-6 FENCE	LF	\$110.00	0	\$0.00
4.7	REMOVE FENCE	LF	\$20.00	0	\$0.00
4.8	REMOVE BARRIER	LF	\$50.00	0	\$0.00
4.10	EMABNKMENT EARTHWORK	CY	\$15.00	4,583	\$68,750.00
4.11	CONSTRUCTION STAGING	LS	\$905,200.00	1	\$905,200.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$1,496,800.00</b>

**Conceptual Cost Estimate Summary – EG Auxiliary Lane Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Segment A-9.0
Location:	SB I-5 – Elk Grove Boulevard to Hood Franklin Road
Segment Length:	10,469 Feet
Project Description:	Construct Interchange-to-Interchange Auxiliary Lane. Cost includes construction staging cost to shift mainline traffic while building aux lane. Drainage cost is included in roadway excavation cost as ditches.
New pavement width:	23 Feet

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$433,400.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$433,400.00</b>

<b>6 STRUCTURES (CALCULATED SEPARATELY)</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	AT-GRADE RAILROADS CROSSING	LS	\$0.00	0	\$0.00
6.4	GRADE SEPARATED RAILROAD CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$4,767,030.00
	CONTINGENCY: 20% → \$953,500.00
	<b>TOTAL CONSTRUCTION COSTS: \$5,720,600.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$858,100.00
8.2	TOTAL STAKING, PERMITTING, AND INSPECTION	LS	15%	CON. COST	\$858,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$1,716,200.00</b>

**TOTAL PROJECT COST \*: \$7,436,800.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Auxiliary Lane Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	Segment A-9.0
Location:	SB I-5 – Elk Grove Boulevard to Hood Franklin Road
Segment Length:	10,469 Feet
Project Description:	Construct Interchange-to-Interchange Auxiliary Lane. Cost includes construction staging cost to shift mainline traffic while building aux lane. Drainage cost is included in roadway excavation cost as ditches.
New pavement width:	23 Feet

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$0.00	0	\$0.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$0
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	2%	CON. COST	\$114,500.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$114,500.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$171,700.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$171,700.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION: \$286,200.00**



ATTACHMENT I – RAILROAD GRADE CROSSING ESTIMATES





### Railroad Grade Crossings

Railroad Grade Crossings											
New ID		Analysis ID	Roadway	Limits/Location	Description	Construction Cost (With Mobilization and Contingency)	Engineering and Management Costs	Subtotal Capital Cost	R/W, Utility Relocation and Env. Mit. Costs	Combined Capital Cost + R/W, Utility Relocation, and Env. Mit. Cost	Notes
G-1.0			Bilby Road	Bilby Road / UPRR	Eliminate crossing	\$396,000	\$139,000	\$535,000	\$76,000	\$611,000	
G-2.0			Bond Road	Bond Road / UPRR	4-Lane Grade Separation	\$47,003,000	\$11,825,000	\$58,828,000	\$35,411,000.00	\$94,239,000	
G-3.0			Calvine Road	Calvine Road / UPRR	6-Lane Grade Separation	\$47,043,000	\$11,835,000	\$58,878,000	\$5,711,000.00	\$64,589,000	
G-4.0			Elk Grove Florin Road	Elk Grove Florin Road / UPRR	4-Lane Grade Separation	\$77,511,000	\$19,453,000	\$96,964,000	\$7,725,000.00	\$104,689,000	
G-5.0			Grant Line	Grantline Road / UPRR	Widen overcrossing from 4 lanes to 8 lanes	\$8,483,000	\$2,621,000	\$11,104,000	\$1,574,000.00	\$12,678,000	
G-6.0			Sheldon Road	Sheldon Road / UPRR	4-Lane Grade Separation	\$41,352,000	\$10,413,000	\$51,765,000	\$6,641,000.00	\$58,406,000	
G-7.0			Kammerer Road	Franklin Boulevard to Willard Parkway	UPRR crossing from intersection to intersection, 4 lane with ROW for future restriping to 4 lanes	\$16,430,000	\$5,005,000	\$21,435,000	\$6,944,000.00	\$28,379,000	
<b>Total Cost:</b>										<b>\$363,591,000</b>	

## Conceptual Cost Estimate Summary – EG Roadway Fee Study

SEGMENT DETAILS	
Name:	G-1.0
Location:	Bilby road/UPRR Crossing
Planned Improvement:	Closing existing UPRR Crossing
Project Description:	Existing Bilby Road is a 2-lane Arterial/Collector. The project will close the existing at-grading crossing (DOT# 833759X) over the Union Pacific Railroad (UPRR) track. Cul-de-sacs with back-of-curb radius of 36' will be added outside the UPRR right-of-way. Additional right-of-way is assumed to be acquired to fit each cul-de-sac. Modifications to the existing Bilby Road and Willard Parkway Intersection will include removing the existing traffic signal to create a side stop controlled intersection and the addition of standalone light standards and extending the median to allow only right in right out movements as well as modifications the existing cross walks.

1 EARTHWORK					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	REMOVE EXISTING RR CROSSING	LS	\$5,000.00	1	\$5,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$5,000.00</b>

2 DRAINAGE					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE CULVERT	LF	\$185.00	225	\$41,625.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$41,625.00</b>

3 PAVEMENT					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	HOT MIX ASPHALT	TON	\$150.00	330	\$49,500.00
3.2	AGGREGATE BASE	CY	\$120.00	650	\$78,000.00
3.3	CURB & GUTTER	LF	\$45.00	400	\$18,000.00
3.4	MEDIAN CURB & 2' CONCRETE LANSCAPE STRIP	LF	\$45.00	300	\$13,500.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$159,000.00</b>

4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	STREET BARRICADE	LF	\$60.00	50	\$3,000.00
4.2	STREET LIGHTING	LS	\$20,000.00	1	\$20,000.00
4.3	REMOVE EXISTING TRAFFIC SIGNAL	LS	\$50,000.00	1	\$50,000.00
4.4	SIGNAGE, STRIPING, TRAFFIC HANDLING	LS	\$5,000.00	1	\$5,000.00
4.5	RAILROAD FLAGGER	DAYS	\$1,900.00	2	\$3,800.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$81,800.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$28,993.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$28,743.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-1.0
Location:	Bilby road/UPRR Crossing
Planned Improvement:	Closing existing UPRR Crossing
Project Description:	Existing Bilby Road is a 2-lane Arterial/Collector. The project will close the existing at-grading crossing (DOT# 833759X) over the Union Pacific Railroad (UPRR) track. Cul-de-sacs with back-of-curb radius of 36' will be added outside the UPRR right-of-way. Additional right-of-way is assumed to be acquired to fit each cul-de-sac. Modifications to the existing Bilby Road and Willard Parkway Intersection will include removing the existing traffic signal to create a side stop controlled intersection and the addition of standalone light standards and extending the median to allow only right in right out movements as well as modifications the existing cross walks.

<b>6 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	LF	\$ --	--	\$ --
6.3	GRADE SEPARATED RAILROAD CROSSINGS	SF	\$ --	--	\$ --
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$ --</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$316,168.00
	MOBILIZATION: 0 % → \$0
	CONTINGENCY: 20 % \$80,000.00
	<b>TOTAL CONSTRUCTION COSTS: \$396,000.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$59,000.00
8.2	TOTAL STAKING, PERMITTING AND INSPECTION	LS	10%	CON. COST	\$40,000.00
8.3	UPRR AGREEMENT/REVIEW COSTS	LS	\$25,000.00	1	\$25,000.00
8.4	CPUC PERMIT	LS	\$15,000.00	1	\$15,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$139,000.00</b>

**TOTAL PROJECT COST \*: \$535,000.00**

\* EXCLUDES LAND AND RIGHT-OF WAY, UTILITIES, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-1.0
Location:	Bilby road/UPRR Crossing
Planned Improvement:	Closing existing UPRR Crossing
Project Description:	Existing Bilby Road is a 2-lane Arterial/Collector. The project will close the existing at-grading crossing (DOT# 833759X) over the Union Pacific Railroad (UPRR) track. Cul-de-sacs with back-of-curb radius of 36' will be added outside the UPRR right-of-way. Additional right-of-way is assumed to be acquired to fit each cul-de-sac. Modifications to the existing Bilby Road and Willard Parkway Intersection will include removing the existing traffic signal to create a side stop controlled intersection and the addition of standalone light standards and extending the median to allow only right in right out movements as well as modifications the existing cross walks.

**RIGHT-OF-WAY, UTILITY RELOCATION, ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	1,336	\$12,358.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISTION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$1,236.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$13,594.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
10.1	UTILITY RELOCATION	LS	\$50,000.00	1	\$50,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$50,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$11,880.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$11,880.00</b>

**COST: \$76,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-2.0
Location:	Bond Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Bond Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752749S) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The total width of the structure is assumed to be 90' and length is 1084'. To meet railroad requirements a length of 160' span is needed to keep the supports outside of the railroad right of way. Additional 462' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. The approach roadway to the overcrossing is assumed to be 1,325' on both. 1,200' of Elk Grove Florin Road will need to be elevated to meet the adjusted intersection with Bond Road. Bond Road is assumed closed to through traffic over the UPRR track during construction. One of the legs of Elk Grove Florin Road will also be closed during construction and traffic detoured. The assumed right-of-way impacts are full acquisition of two commercial properties and modification to access for three shopping centers on the west side of the railroad tracks. On the east side, impacts include closure of Quail Cove Drive, Earl Fife Drive, and William Fife Drive connections to Bond Road.

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	IMPORT BORROW	CY	\$15.00	75,200	\$1,128,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$1,128,000.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LS	\$650,000.00	1	\$650,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$650,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	HOT MIX ASPHALT	TON	\$90.00	8,700	\$783,000.00
3.2	AGGREGATE BASE	CY	\$60.00	16,400	\$984,000.00
3.3	MINOR CONCRETE SIDEWALK, CURB & GUTTER	LF	\$45.00	5,800	\$261,000.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,028,000.00</b>

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	Retaining Walls	SF	\$100.00	32,300	\$3,230,000.00
4.2	LANDSCAPING	LS	\$75,000.00	1	\$75,000.00
4.3	STREET LIGHTING	LS	\$150,000.00	1	\$150,000.00
4.4	SIGNAGE, STRIPING, TRAFFIC HANDLING	LS	\$200,000.00	1	\$200,000.00
4.5	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.6	Railroad Flagger	DY	\$1,900.00	40	\$76,000.00
4.7	STAGE CONSTRUCTION (15%)	LS	1,164,150.00	1	1,164,150.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$5,195,150.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$900,115.00

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-2.0
Location:	Bond Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Bond Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752749S) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The total width of the structure is assumed to be 90' and length is 1084'. To meet railroad requirements a length of 160' span is needed to keep the supports outside of the railroad right of way. Additional 462' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. The approach roadway to the overcrossing is assumed to be 1,325' on both. 1,200' of Elk Grove Florin Road will need to be elevated to meet the adjusted intersection with Bond Road. Bond Road is assumed closed to through traffic over the UPRR track during construction. One of the legs of Elk Grove Florin Road will also be closed during construction and traffic detoured. The assumed right-of-way impacts are full acquisition of two commercial properties and modification to access for three shopping centers on the west side of the railroad tracks. On the east side, impacts include closure of Quail Cove Drive, Earl Fife Drive, and William Fife Drive connections to Bond Road.

<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>	<b>\$904,715.00</b>
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<b>6 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$ --	--	\$ --
6.2	CULVERTS	LF	\$ --	--	\$ --
6.3	GRADE SEPARATED RAILROAD CROSSINGS	SF	\$ 300.00	97,560	\$ 29,268,000.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$29,268,000.00</b>

<b>7 CONTINGENCY</b>			
	SUBTOTAL CONSTRUCTION COSTS:		\$39,169,265.00
	MOBILIZATION: 0 %	→	\$0
	CONTINGENCY: 20 %		\$7,834,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$47,003,000.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$7,050,000.00
8.2	TOTAL STAKING, PERMITTING AND INSPECTION	LS	10%	CON. COST	\$4,700,000.00
8.3	UPRR AGREEMENT/REVIEW COSTS	LS	\$75,000.00	1	\$75,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$11,825,000.00</b>

**TOTAL PROJECT COST \*: \$58,828,000.00**

\* EXCLUDES LAND AND RIGHT-OF WAY, UTILITIES, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-2.0
Location:	Bond Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Bond Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752749S) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The total width of the structure is assumed to be 90' and length is 1084'. To meet railroad requirements a length of 160' span is needed to keep the supports outside of the railroad right of way. Additional 462' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. The approach roadway to the overcrossing is assumed to be 1,325' on both. 1,200' of Elk Grove Florin Road will need to be elevated to meet the adjusted intersection with Bond Road. Bond Road is assumed closed to through traffic over the UPRR track during construction. One of the legs of Elk Grove Florin Road will also be closed during construction and traffic detoured. The assumed right-of-way impacts are full acquisition of two commercial properties and modification to access for three shopping centers on the west side of the railroad tracks. On the east side, impacts include closure of Quail Cove Drive, Earl Fife Drive, and William Fife Drive connections to Bond Road.

**RIGHT-OF-WAY, UTILITY RELOCATION, ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	LS	\$30,000,000.00	1	\$30,000,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$3,000,000.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$33,000,000.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
10.1	UTILITY RELOCATION	LS	\$1,000,000.00	1	\$1,000,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$1,000,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$1,410,090.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$1,410,090.00</b>

**COST: \$35,411,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-3.0
Location:	Calvine Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Calvine Road is planned to be widened to a 6-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752752A) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The total width of the structure is assumed to be 112' and length is 910'. To meet railroad requirements a length of 160' span is needed to keep the supports outside of the railroad right of way. Additional 375' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. The elevated approach roadway to the overcrossing is assumed to be 700' on both sides including adjustment to Vintage Park Drive. A permanent retaining wall is included to prevent additional right of way. A temporary wall will be needed for construction to maintain two lanes of traffic on Calvine Road. Utility relocation of the overhead electrical lines is included. Impacts are assumed for 7 parcels.

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	IMPORT BORROW	CY	\$15.00	104,169	\$1,562,535.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$1,562,535.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LS	\$650,000.00	1	\$650,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$650,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	HOT MIX ASPHALT	TON	\$90.00	6,630	\$596,700.00
3.2	AGGREGATE BASE	CY	\$60.00	11,600	\$696,000.00
3.3	MINOR CONCRETE SIDEWALK, CURB & GUTTER	LF	\$45.00	4,100	\$184,500.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,477,200.00</b>

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	RETAINING WALLS	LS	\$100.00	21,470	\$2,147,000.00
4.2	RETAINING WALLS FOR STAGING	LS	\$20.00	11,000	\$220,000.00
4.1	LANDSCAPING	LS	\$75,000.00	1	\$75,000.00
4.2	STREET LIGHTING	LS	\$150,000.00	1	\$150,000.00
4.3	SIGNAGE, STRIPING, TRAFFIC HANDLING	LS	\$200,000.00	1	\$200,000.00
4.4	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.5	RAILROAD FLAGGER	DY	\$1,900.00	1	\$76,000.00
4.6	STAGE CONSTRUCTION (15%)	LS	\$984,260.00	1	\$984,260.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$4,152,260.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$784,200.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$784,200.00</b>



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-3.0
Location:	Calvine Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Calvine Road is planned to be widened to a 6-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752752A) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The total width of the structure is assumed to be 112' and length is 910'. To meet railroad requirements a length of 160' span is needed to keep the supports outside of the railroad right of way. Additional 375' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. The elevated approach roadway to the overcrossing is assumed to be 700' on both sides including adjustment to Vintage Park Drive. A permanent retaining wall is included to prevent additional right of way. A temporary wall will be needed for construction to maintain two lanes of traffic on Calvine Road. Utility relocation of the overhead electrical lines is included. Impacts are assumed for 7 parcels.

<b>6 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	GRADE SEPARATED RAILROAD CROSSINGS	SF	\$300.00	101,920	\$ 30,576,000.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$ 30,576,000.00</b>

<b>7 CONTINGENCY</b>			
	SUBTOTAL CONSTRUCTION COSTS:		\$39,202,195.00
	MOBILIZATION: 0	% →	\$0
	CONTINGENCY: 20	%	\$7,840,439.00
	<b>TOTAL CONSTRUCTION COSTS:</b>		<b>\$47,043,000.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$7,065,000.00
8.2	TOTAL STAKING, PERMITTING AND INSPECTION	LS	10%	CON. COST	\$4,704,000.00
8.3	UPRR AGREEMENT/REVIEW COSTS	LS	\$75,000	1	\$75,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$11,835,000.00</b>

**TOTAL PROJECT COST \*: \$58,878,000.00**

\* EXCLUDES LAND AND RIGHT-OF WAY, UTILITIES, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-3.0
Location:	Calvine Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Calvine Road is planned to be widened to a 6-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752752A) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The total width of the structure is assumed to be 112' and length is 910'. To meet railroad requirements a length of 160' span is needed to keep the supports outside of the railroad right of way. Additional 375' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. The elevated approach roadway to the overcrossing is assumed to be 700' on both sides including adjustment to Vintage Park Drive. A permanent retaining wall is included to prevent additional right of way. A temporary wall will be needed for construction to maintain two lanes of traffic on Calvine Road. Utility relocation of the overhead electrical lines is included. Impacts are assumed for 7 parcels.

**RIGHT-OF-WAY, UTILITY RELOCATION, ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	LS	\$3,000,000.00	1	\$3,000,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISTION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$300,000.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$3,300,000.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
10.1	UTILITY RELOCATION	LS	\$1,000,000.00	1	\$1,000,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$1,000,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$1,411,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$1,413,000.00</b>

**COST: \$5,711,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-4.0
Location:	Elk Grove Florin Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Elk Grove Florin Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752750L) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The approach roadway to the overcrossing is assumed to be 800' on both sides. The total width of structure is assumed to be 90' and length is 1350'. To meet railroad requirements a length of 600' span is needed to keep the supports outside of the railroad right of way. Additional 375' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. There will be two bridge types due to the 20-degree skew of the existing crossing. The railroad will require the bridge supports to be placed outside of their right of way. Outriggers have been assumed to provide supports outside of the UPRR right-of-way. This would provide two different bridge types. The approach to the outriggers and the span between the outrigger on either side. The section between the outriggers would be more expensive to construct than the approach bridges. Impacts are assumed for 8 parcels and providing new access.

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	IMPORT BORROW	CY	\$15.00	53,000	\$795,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$795,000.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LS	\$700,000.00	1	\$700,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$700,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	HOT MIX ASPHALT	TON	\$90.00	6630	\$504,000.00
3.2	AGGREGATE BASE	CY	\$60.00	11,600	\$600,000.00
3.3	MINOR CONCRETE SIDEWALK, CURB & GUTTER	LF	\$45.00	4,100	\$256,500.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,360,500.00</b>

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	RETAINING WALLS	LS	\$100.00	9,000	\$900,000.00
4.2	LANDSCAPING	LS	\$100,000.00	1	\$100,000.00
4.3	STREET LIGHTING	LS	\$200,000.00	1	\$200,000.00
4.4	SIGNAGE, STRIPING, TRAFFIC HANDLING	LS	\$200,000.00	1	\$200,000.00
4.5	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
	RAILROAD FLAGGER	DY	\$1,900.00	50	\$95,000.00
4.6	STAGE CONSTRUCTION (15%)	LS	\$683,325.00	1	\$683,325.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$2,478,325.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-4.0
Location:	Elk Grove Florin Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Elk Grove Florin Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752750L) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The approach roadway to the overcrossing is assumed to be 800' on both sides. The total width of structure is assumed to be 90' and length is 1350'. To meet railroad requirements a length of 600' span is needed to keep the supports outside of the railroad right of way. Additional 375' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. There will be two bridge types due to the 20-degree skew of the existing crossing. The railroad will require the bridge supports to be placed outside of their right of way. Outriggers have been assumed to provide supports outside of the UPRR right-of-way. This would provide two different bridge types. The approach to the outriggers and the span between the outrigger on either side. The section between the outriggers would be more expensive to construct than the approach bridges. Impacts are assumed for 8 parcels and providing new access.

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$533,383.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$537,983.00</b>

<b>6 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$350.00	67,500	\$ 23,625,000.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	GRADE SEPARATED RAILROAD CROSSINGS	SF	\$650.00	54,000	\$ 35,100,000.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$58,725,000.00</b>

<b>7 CONTINGENCY</b>					
SUBTOTAL CONSTRUCTION COSTS:					\$64,592,208.00
MOBILIZATION: 0 %				→	\$0
CONTINGENCY: 20 %					\$12,918,442.00
<b>TOTAL CONSTRUCTION COSTS:</b>					<b>\$77,511,000.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$11,627,000.00
8.2	TOTAL STAKING, PERMITTING AND INSPECTION	LS	10%	CON. COST	\$7,751,000.00
8.3	UPRR AGREEMENT/REVIEW COSTS	LS	\$75,000	1	\$75,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$19,453,000.00</b>

**TOTAL PROJECT COST \*: \$96,964,000.00**

\* EXCLUDES LAND AND RIGHT-OF WAY, UTILITIES, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-4.0
Location:	Elk Grove Florin Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Elk Grove Florin Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752750L) at the Union Pacific Railroad (UPRR) track with an overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The approach roadway to the overcrossing is assumed to be 800' on both sides. The total width of structure is assumed to be 90' and length is 1350'. To meet railroad requirements a length of 600' span is needed to keep the supports outside of the railroad right of way. Additional 375' of length on both the west and east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. There will be two bridge types due to the 20-degree skew of the existing crossing. The railroad will require the bridge supports to be placed outside of their right of way. Outriggers have been assumed to provide supports outside of the UPRR right-of-way. This would provide two different bridge types. The approach to the outriggers and the span between the outrigger on either side. The section between the outriggers would be more expensive to construct than the approach bridges. Impacts are assumed for 8 parcels and providing new access.

**RIGHT-OF-WAY, UTILITY RELOCATION, ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	LS	\$4,000,000.00	1	\$4,000,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$400,000.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$4,400,000.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
10.1	UTILITY RELOCATION	LS	\$1,000,000.00	1	\$1,000,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$1,000,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$2,325,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$2,327,000.00</b>

**COST: \$7,725,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-5.0
Location:	Grant Line Road /UPRR Crossing (Phase 2)
Planned Improvement:	Widen existing grade separated structure
Project Description:	Grant Line Road is planned to be widened to an 8-lane road. This project will widen the existing structure (DOT# 924198N) at the Union Pacific (UPRR) track with an 8-lane overcrossing. The widened grade crossing structure is assumed to include a Type 60M Concrete Barrier, 3' shoulder, one 12' lane, three 11' lanes, a 6' bike lane, a Type 732 Concrete Barrier, 8' sidewalk and a Type 3 Chain Link Railing in each direction. The existing structure width is 80'-6", requiring a widening of 50'-8" to achieve the ultimate width of 131'-2". The length of the structure is 255'-10". Per Phase 1, a span of 119'-10" and 68' on either side was assumed. The elevated approach to the roadway to the overcrossing is assumed to be 850' on both sides. The approaches will be built on fill with 2:1 side slopes. Due to existing side slopes, the maximum width of fill will be 50'-8". Right of way on the east side will need to be acquired.

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	IMPORT BORROW	CY	\$15.00	68,600	\$1,029,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$1,029,000.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LS	\$200,000.00	1	\$200,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$200,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	HOT MIX ASPHALT	TON	\$90.00	2,990	\$399,600.00
3.2	AGGREGATE BASE	CY	\$60.00	5,330	\$319,800.00
3.3	MINOR CONCRETE SIDEWALK	SF	\$12.00	13,600	\$163,200.00
3.4	TYPE 60M CONCRETE BARRIER	LF	\$130.00	1,700	\$221,000.00
3.5	TYPE 732 CONCRETE BARRIER	LF	\$150.00	1,700	\$255,000.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,358,600.00</b>

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	LANDSCAPING	LS	\$40,000.00	1	\$40,000.00
4.2	STREET LIGHTING	LS	\$75,000.00	1	\$75,000.00
4.3	SIGNAGE, STRIPING, TRAFFIC HANDLING	LS	\$100,000.00	1	\$100,000.00
4.4	RAILROAD FLAGGER	DY	\$1,650.00	50	\$82,500.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$297,500.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$288,510.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$3,173,610.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-5.0
Location:	Grant Line Road /UPRR Crossing (Phase 2)
Planned Improvement:	Widen existing grade separated structure
Project Description:	Grant Line Road is planned to be widened to an 8-lane road. This project will widen the existing structure (DOT# 924198N) at the Union Pacific (UPRR) track with an 8-lane overcrossing. The widened grade crossing structure is assumed to include a Type 60M Concrete Barrier, 3' shoulder, one 12' lane, three 11' lanes, a 6' bike lane, a Type 732 Concrete Barrier, 8' sidewalk and a Type 3 Chain Link Railing in each direction. The existing structure width is 80'-6", requiring a widening of 50'-8" to achieve the ultimate width of 131'-2". The length of the structure is 255'-10". Per Phase 1, a span of 119'-10" and 68' on either side was assumed. The elevated approach to the roadway to the overcrossing is assumed to be 850' on both sides. The approaches will be built on fill with 2:1 side slopes. Due to existing side slopes, the maximum width of fill will be 50'-8". Right of way on the east side will need to be acquired.

<b>6 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	GRADE SEPARATED RAILROAD CROSSINGS	SF	\$300.00	12,984	\$3,895,200.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$3,895,200.00</b>

<b>7 CONTINGENCY</b>		
	SUBTOTAL CONSTRUCTION COSTS:	\$7,069,000.00
	CONTINGENCY: 20 % →	\$1,414,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$8,483,000.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$1,273,000.00
8.2	TOTAL STAKING, PERMITTING AND INSPECTION	LS	15%	CON. COST	\$1,273,000.00
8.3	UPRR AGREEMENT/REVIEW COSTS	LS	\$75,000	1	\$75,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$2,621,000.00</b>

**TOTAL PROJECT COST \*: \$11,104,000.00**

\* EXCLUDES LAND AND RIGHT-OF WAY, UTILITIES, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-5.0
Location:	Grant Line Road /UPRR Crossing (Phase 2)
Planned Improvement:	Widen existing grade separated structure
Project Description:	Grant Line Road is planned to be widened to an 8-lane road. This project will widen the existing structure (DOT# 924198N) at the Union Pacific (UPRR) track with an 8-lane overcrossing. The widened grade crossing structure is assumed to include a Type 60M Concrete Barrier, 3' shoulder, one 12' lane, three 11' lanes, a 6' bike lane, a Type 732 Concrete Barrier, 8' sidewalk and a Type 3 Chain Link Railing in each direction. The existing structure width is 80'-6", requiring a widening of 50'-8" to achieve the ultimate width of 131'-2". The length of the structure is 255'-10". Per Phase 1, a span of 119'-10" and 68' on either side was assumed. The elevated approach to the roadway to the overcrossing is assumed to be 850' on both sides. The approaches will be built on fill with 2:1 side slopes. Due to existing side slopes, the maximum width of fill will be 50'-8". Right of way on the east side will need to be acquired.

**RIGHT-OF-WAY, UTILITY RELOCATION, ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	12,500	\$115,625.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	850	\$102,000.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$21,763.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$240,000.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
10.1	UTILITY RELOCATION	LS	\$1,000,000.00	1	\$1,000,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$1,000,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$334,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$334,000.00</b>

**COST: \$1,574,000.00**



**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-6.0
Location:	Sheldon Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Sheldon Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752751T) at the Union Pacific Railroad (UPRR) track with and overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The approach roadway to the overcrossing is assumed to be 600' on both sides. The total width of structure is assumed to be 90' and length is 1020'. To meet railroad requirements a length of 110' span is needed to keep the supports outside of the railroad right of way. Additional 400' of length on the west and 510' of length east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. A permanent retaining wall will be needed on the east side to prevent additional right-of-way impacts. A retaining wall on the west side is not needed as it appears there is enough right-of-way. A temporary wall is needed for construction to maintain two lanes of traffic on Sheldon Road. Impact are assumed for 8 parcels.

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	IMPORT BORROW	CY	\$15.00	57,000	\$855,000.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$855,000.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LS	\$700,000.00	1	\$700,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$700,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	HOT MIX ASPHALT	TON	\$90.00	9,600	\$864,000.00
3.2	AGGREGATE BASE	CY	\$60.00	16,700	\$1,002,000.00
3.3	MINOR CONCRETE SIDEWALK, CURB & GUTTER	LF	\$45.00	5,100	\$229,500.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$2,095,500.00</b>

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	RETAINING WALLS	SF	\$100.00	7,800	\$780,000.00
4.2	TEMPORARY WALL TO KEEP 2 LANES OPEN	SF	\$20.00	10,000	\$200,000.00
4.3	LANDSCAPING	LS	\$100,000.00	1	\$100,000.00
4.4	STREET LIGHTING	LS	\$200,000.00	1	\$200,000.00
4.5	SIGNAGE, STRIPING, TRAFFIC HANDLING	LS	\$200,000.00	1	\$200,000.00
4.6	TRAFFIC SIGNAL	LS	\$300,000.00	1	\$300,000.00
4.7	RAILROAD FLAGGER	DY	\$1,900.00	40	\$76,000.00
4.8	STAGE CONSTRUCTION (15%)	LS	\$784,575.00	1	\$784,575.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$2,640,575.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$629,108.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$629,108.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-6.0
Location:	Sheldon Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Sheldon Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752751T) at the Union Pacific Railroad (UPRR) track with and overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The approach roadway to the overcrossing is assumed to be 600' on both sides. The total width of structure is assumed to be 90' and length is 1020'. To meet railroad requirements a length of 110' span is needed to keep the supports outside of the railroad right of way. Additional 400' of length on the west and 510' of length east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. A permanent retaining wall will be needed on the east side to prevent additional right-of-way impacts. A retaining wall on the west side is not needed as it appears there is enough right-of-way. A temporary wall is needed for construction to maintain two lanes of traffic on Sheldon Road. Impact are assumed for 8 parcels.

<b>6 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	GRADE SEPARATED RAILROAD CROSSINGS	SF	\$300.00	91,800	\$27,540,000.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$27,540,000.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$34,460,183.00
	MOBILIZATION: 0 % → \$0
	CONTINGENCY: 20 % \$6,892,000.00
	<b>TOTAL CONSTRUCTION COSTS: \$41,352,000.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$6,203,000.00
8.2	TOTAL STAKING, PERMITTING AND INSPECTION	LS	10%	CON. COST	\$4,135,000.00
8.3	UPRR AGREEMENT/REVIEW COSTS	LS	\$75,000	1	\$75,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$10,413,000.00</b>

**TOTAL PROJECT COST \*: \$51,765,000.00**

\* EXCLUDES LAND AND RIGHT-OF WAY, UTILITIES, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-6.0
Location:	Sheldon Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Sheldon Road is planned to be a 4-lane road. The project will replace the existing at-grade railroad crossing (DOT# 752751T) at the Union Pacific Railroad (UPRR) track with and overcrossing. The new grade crossing structure is assumed to include 8' sidewalks, 3' for curb and gutter, 5' bike lanes, 11' lanes with 12' inside lanes and a 12' median. The approach roadway to the overcrossing is assumed to be 600' on both sides. The total width of structure is assumed to be 90' and length is 1020'. To meet railroad requirements a length of 110' span is needed to keep the supports outside of the railroad right of way. Additional 400' of length on the west and 510' of length east side where a bridge is more cost effective than a more traditional roadway on fill or retaining walls. A permanent retaining wall will be needed on the east side to prevent additional right-of-way impacts. A retaining wall on the west side is not needed as it appears there is enough right-of-way. A temporary wall is needed for construction to maintain two lanes of traffic on Sheldon Road. Impact are assumed for 8 parcels.

**RIGHT-OF-WAY, UTILITY RELOCATION, ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	LS	\$4,000,000.00	1	\$4,000,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISTION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$400,000
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$4,400,000</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
10.1	UTILITY RELOCATION	LS	\$1,000,000.00	1	\$1,000,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$1,000,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$1,241,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$1,241,000.00</b>

**COST: \$6,641,000.00**

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-7.0
Location:	Kammerer Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Kammerer Road is planned to be a future 4-lane road. The project will construct a new overcrossing over the Union Pacific Railroad (UPRR) track east of Franklin Boulevard. The new grade crossing structure is assumed to include a 12' multiuse pathway, 10' shoulder, two 12' travel lanes and a 5' shoulder. The total width of structure is assumed to be 102.75' and length is 260'. To meet railroad requirements a length of 120' span is needed to keep the supports outside of the railroad right of way. Additional 70' of length on both the west and east side are more cost effective then building the vertical abutments at the right of way. The approximate length of roadway to be elevated on the approaches to the overcrossing will be 760' on the west side and 600' on the east side. It is assumed that the approaches will be built on fill with 2:1 side slopes. The maximum width of the fill will be 238' at the overcrossing abutments. Right-of-way acquisition at this location is needed.

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	IMPORT BORROW	CY	\$15.00	129,700	\$1,945,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$1,945,000.00</b>

<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LS	\$350,000.00	1	\$350,000.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$350,000.00</b>

<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	HOT MIX ASPHALT	TON	\$90.00	4,400	\$399,600.00
3.2	AGGREGATE BASE	CY	\$60.00	7,900	\$474,000.00
3.3	MINOR CONCRETE SIDEWALK, CURB & GUTTER	LF	\$45.00	1,400	\$171,000.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$1,044,600.00</b>

<b>4 MISCELLANEOUS</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	LANDSCAPING	LS	\$75,000.00	1	\$75,000.00
4.2	STREET LIGHTING	LS	\$150,000.00	1	\$150,000.00
4.3	SIGNAGE, STRIPING, TRAFFIC HANDLING	LS	\$120,000.00	1	\$120,000.00
4.4	RAILROAD FLAGGER	DY	\$1,900.00	250	\$475,000.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$820,000.00</b>

<b>5 MINOR ITEMS</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	10%	Sections 1-4	\$415,960.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$415,960.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-7.0
Location:	Kammerer Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Kammerer Road is planned to be a future 4-lane road. The project will construct a new overcrossing over the Union Pacific Railroad (UPRR) track east of Franklin Boulevard. The new grade crossing structure is assumed to include a 12' multiuse pathway, 10' shoulder, two 12' travel lanes and a 5' shoulder. The total width of structure is assumed to be 102.75' and length is 260'. To meet railroad requirements a length of 120' span is needed to keep the supports outside of the railroad right of way. Additional 70' of length on both the west and east side are more cost effective then building the vertical abutments at the right of way. The approximate length of roadway to be elevated on the approaches to the overcrossing will be 760' on the west side and 600' on the east side. It is assumed that the approaches will be built on fill with 2:1 side slopes. The maximum width of the fill will be 238' at the overcrossing abutments. Right-of-way acquisition at this location is needed.

<b>6 STRUCTURES</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	BRIDGES	SF	\$0.00	0	\$0.00
6.2	CULVERTS	LF	\$0.00	0	\$0.00
6.3	GRADE SEPARATED RAILROAD CROSSINGS	SF	\$300.00	26,715	\$8,014,500.00
6.4	SOUND WALL	SF	\$75.00	14,670	\$1,100,250.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$9,114,750.00</b>

<b>7 CONTINGENCY</b>	
	SUBTOTAL CONSTRUCTION COSTS: \$13,691,000.00
	CONTINGENCY: 20 % → \$2,739,000.00
	<b>TOTAL CONSTRUCTION COSTS: \$16,430,000.00</b>

<b>8 ENGINEERING &amp; MANAGEMENT</b>					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	15%	CON. COST	\$2,465,000.00
8.2	TOTAL STAKING, PERMITTING AND INSPECTION	LS	15%	CON. COST	\$2,465,000.00
8.3	UPRR AGREEMENT/REVIEW COSTS	LS	\$75,000	1	\$75,000.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$5,005,000.00</b>

**TOTAL PROJECT COST \*: \$21,435,000.00**

\* EXCLUDES LAND AND RIGHT-OF WAY, UTILITIES, AND ENVIRONMENTAL MITIGATION

**Conceptual Cost Estimate Summary – EG Roadway Fee Study**

<b>SEGMENT DETAILS</b>	
Name:	G-7.0
Location:	Kammerer Road/UPRR Crossing
Planned Improvement:	Grade separated railroad crossing
Project Description:	Kammerer Road is planned to be a future 4-lane road. The project will construct a new overcrossing over the Union Pacific Railroad (UPRR) track east of Franklin Boulevard. The new grade crossing structure is assumed to include a 12' multiuse pathway, 10' shoulder, two 12' travel lanes and a 5' shoulder. The total width of structure is assumed to be 102.75' and length is 260'. To meet railroad requirements a length of 120' span is needed to keep the supports outside of the railroad right of way. Additional 70' of length on both the west and east side are more cost effective then building the vertical abutments at the right of way. The approximate length of roadway to be elevated on the approaches to the overcrossing will be 760' on the west side and 600' on the east side. It is assumed that the approaches will be built on fill with 2:1 side slopes. The maximum width of the fill will be 238' at the overcrossing abutments. Right-of-way acquisition at this location is needed.

**RIGHT-OF-WAY, UTILITY RELOCATION, ENVIRONMENTAL MITIGATION COST ANALYSIS**

<b>9 RIGHT-OF-WAY</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	LS	\$3,000,000.00	1	\$3,000,000.00
9.2	EASEMENT	SF	\$0.00	0	\$0.00
9.3	ACQUISTION SOFT COST	LF	\$0.00	0	\$0.00
9.4	ITEM 9 CONTINGENCY	LS	10% OF	ROW COST	\$300,000.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$3,300,000.00</b>

<b>10 UTILITY RELOCATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
10.1	UTILITY RELOCATION	LS	\$3,000,000.00	1	\$3,000,000.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$3,000,000.00</b>

<b>11 ENVIRONMENTAL MITIGATION</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$644,000.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$644,000.00</b>

**COST: \$6,944,000.00**

ATTACHMENT J – HIGHWAY AND URBAN INTERCHANGE ESTIMATES

### Highway Interchanges Fee Program Summary

Highway/Urban Interchanges							
New ID	Roadway	Limits/Location	Description	Construction and E&M/(Kammerer Road; Design Only)	R/W	Combined Construction (Kammerer Road; Design Only) + R/W Cost	Notes
H-1.0	SR 99	SR 99 / Whitelock Parkway Interchange	Construct 4-Lane Diverging Diamond Interchange	\$91,800,000	\$2,900,000	\$94,700,000	City of Elk Grove Capital Improvement Program 5 Year Plan
H-2.0	Hood Franklin Road	I-5 / Hood Franklin Road Interchange	Modify Interchange - Maintain L-9 Configuration with Ramp-Terminal Intersection	\$16,401,700	\$398,300	\$16,800,000	DPR Cost Estimate - Modify Hood/Franklin at the I-5 Interchange.
H-3.0	Elk Grove Boulevard	SR 99 Off Ramp/ Elk Grove Boulevard	Extend SR 99 Off ramp storage	\$343,000	\$34,900	\$400,000	added to Fee Program per the latest Fehr and Peers project list. See detailed estimate H-3.0
H-4.0	Kammerer Road	Kammerer/Big Horn	Design and ROW preservation only	\$2,500,000	\$5,843,400	\$8,400,000	
H-5.0		Kammerer/Bruceville	Design and ROW preservation only	\$2,500,000	\$5,331,200	\$7,900,000	
H-6.0		Kammerer/Willard Parkway	Design and ROW preservation only	\$2,500,000	\$3,593,400	\$6,100,000	
<b>Total Cost:</b>						<b>\$134,300,000</b>	





**I. ROADWAY ITEMS SUMMARY**

	<b>Section</b>	<b>Cost</b>
1	<b>Earthwork</b>	\$ 1,117,000
2	<b>Pavement Structural Section</b>	\$ 2,327,500
3	<b>Drainage</b>	\$ 50,000
4	<b>Specialty Items</b>	\$ 7,500
5	<b>Environmental</b>	\$ 275,000
6	<b>Traffic Items</b>	\$ 3,115,000
7	<b>Detours</b>	\$ -
8	<b>Minor Items</b>	\$ 344,600
9	<b>Roadway Mobilization</b>	\$ 723,700
10	<b>Supplemental Work</b>	\$ 371,900
11	<b>State Furnished</b>	\$ 118,000
12	<b>Time-Related Overhead</b>	\$ 462,800
13	<b>Roadway Contingency</b>	\$ 1,782,600
<b>TOTAL ROADWAY ITEMS</b>		<b>\$ 10,695,600</b>

Estimate Prepared By :

Name and Title	Date	Phone
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Estimate Reviewed By :

Name and Title	Date	Phone
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By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

**SECTION 1: EARTHWORK**

Item code		Unit	Quantity		Unit Price (\$)		Cost
190101	Roadway Excavation	CY	5,000	x	80.00	= \$	400,000
152320	Lead Compliance Plan	LS		x		= \$	-
194001	Ditch Excavation	CY		x		= \$	-
19801X	Imported Borrow	CY/TON	30,000	x	20.00	= \$	600,000
192037	Structure Excavation (Retaining Wall)	CY		x		= \$	-
193013	Structure Backfill (Retaining Wall)	CY		x		= \$	-
193031	Pervious Backfill Material (Retaining Wall)	CY		x		= \$	-
16010X	Clearing & Grubbing	LS/ACRE	1	x	45,000.00	= \$	45,000
170101	Develop Water Supply	LS	1	x	10,000.00	= \$	10,000
19801X	Imported Borrow	CY/TON		x		= \$	-
210130	Duff	ACRE		x		= \$	-
150860	Remove Base & Surfacing	SQYD	3,100	x	20	= \$	62,000

<b>TOTAL EARTHWORK SECTION ITEMS</b>	<b>\$ 1,117,000</b>
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**SECTION 2: PAVEMENT STRUCTURAL SECTION**

Item code		Unit	Quantity		Unit Price (\$)		Cost
401050	Jointed Plain Concrete Pavement	CY		x		= \$	-
400050	Continuously Reinforced Concrete Pavement	CY		x		= \$	-
404092	Seal Pavement Joint	LF		x		= \$	-
404093	Seal Isolation Joint	LF		x		= \$	-
413117	Seal Concrete Pavement Joint (Silicone)	LF		x		= \$	-
413118	Seal Pavement Joint (Asphalt Rubber)	LF		x		= \$	-
280010	Rapid Strength Concrete Base	CY		x		= \$	-
410095	Dowel Bar (Drill and Bond)	EA		x		= \$	-
390132	Hot Mix Asphalt (Type A)	TON	11,000	x	120.00	= \$	1,320,000
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON	2,000	x	130.00	= \$	260,000
39300X	Geosynthetic Pavement Interlayer (Type X)	SQYD		x		= \$	-
26020X	Class 2 Aggregate Base	CY	9,000	x	80.00	= \$	720,000
290201	Asphalt Treated Permeable Base	CY		x		= \$	-
250401	Class 4 Aggregate Subbase	CY		x		= \$	-
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		x		= \$	-
397005	Tack Coat	TON		x		= \$	-
377501	Slurry Seal	TON		x		= \$	-
3750XX	Screenings (Type XX)	TON		x		= \$	-
374492	Asphaltic Emulsion (Polymer Modified)	TON		x		= \$	-
370001	Sand Cover (Seal)	TON		x		= \$	-
731530	Minor Concrete (Textured Paving)	CY	50	x	550.00	= \$	27,500
731502	Minor Concrete (Miscellaneous Construction)	CY		x		= \$	-
39407X	Place Hot Mix Asphalt Dike (Type X)	LF		x		= \$	-
150771	Remove Asphalt Concrete Dike	LF		x		= \$	-
420201	Grind Existing Concrete Pavement	SQYD		x		= \$	-
150860	Remove Base and Surfacing	CY		x		= \$	-
390095	Replace Asphalt Concrete Surfacing	CY		x		= \$	-
15312X	Remove Concrete	LF/CY/LS		x		= \$	-
394090	Place Hot Mix Asphalt (Miscellaneous Area)	SQYD		x		= \$	-
153103	Cold Plane Asphalt Concrete Pavement	SQYD		x		= \$	-
39405X	Shoulder Rumble Strip (HMA, X-In Indentations)	STA		x		= \$	-
413113	Repair Spalled Joints, Polyester Grout	SQYD		x		= \$	-
420102	Groove Existing Concrete Pavement	SQYD		x		= \$	-
390136	Minor Hot Mix Asphalt	TON		x		= \$	-
394095	Roadside Paving (Miscellaneous Areas)	SQYD		x		= \$	-
XXXXXX	Some Item	Unit		x		= \$	-

<b>TOTAL PAVEMENT STRUCTURAL SECTION ITEMS</b>	<b>\$ 2,327,500</b>
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**SECTION 3: DRAINAGE**

Item code		Unit	Quantity		Unit Price (\$)		Cost
15080X	Remove Culvert	EA/LF	x	=	\$		-
150820	Modify Inlet	EA	x	=	\$		-
155232	Sand Backfill	CY	x	=	\$		-
15020X	Abandon Culvert	EA/LF	x	=	\$		-
152430	Adjust Inlet	LF	x	=	\$		-
155003	Cap Inlet	EA	x	=	\$		-
510501	Minor Concrete	CY	x	=	\$		-
510502	Minor Concrete (Minor Structure)	CY	x	=	\$		-
5105XX	Minor Concrete (Type XX)	CY	x	=	\$		-
620XXX	XX" Alternative Pipe Culvert (Type X)	LF	x	=	\$		-
6411XX	XX" Plastic Pipe	LF	x	=	\$		-
65XXXX	XX" Reinforced Concrete Pipe (Type X)	LF	x	=	\$		-
6650XX	XX" Corrugated Steel Pipe (0.XXX" Thick)	LF	x	=	\$		-
68XXXX	XX" Plastic Pipe (Edge Drain)	LF	x	=	\$		-
69011X	XX" Corrugated Steel Pipe Downrain (0.XXX" Th	LF	x	=	\$		-
70321X	XX" Corrugated Steel Pipe Inlet (0.XXX" Thick)	LF	x	=	\$		-
70XXXX	XX" Corrugated Steel Pipe Riser (0.XXX" Thick)	LF	x	=	\$		-
7050XX	XX" Steel Flared End Section	EA	x	=	\$		-
703233	Grated Line Drain	LF	x	=	\$		-
72XXXX	Rock Slope Protection (Type and Method)	CY/TON	x	=	\$		-
72901X	Rock Slope Protection Fabric (Class X)	SQYD	x	=	\$		-
721420	Concrete (Ditch Lining)	CY	x	=	\$		-
721430	Concrete (Channel Lining)	CY	x	=	\$		-
750001	Miscellaneous Iron and Steel	LB	x	=	\$		-
65XXXX	Additional Drainage	LS	1	x	50,000.00	=	\$ 50,000

<b>TOTAL DRAINAGE ITEMS</b>	<b>\$</b>	<b>50,000</b>
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**SECTION 4: SPECIALTY ITEMS**

Item code		Unit	Quantity		Unit Price (\$)		Cost
080050	Progress Schedule (Critical Path Method)	LS	1	x	5,000.00	=	\$ 5,000
582001	Sound Wall (Masonry Block)	SQFT	x	=	\$		-
510530	Minor Concrete (Wall)	CY	x	=	\$		-
15325X	Remove Sound Wall	LF/LS	x	=	\$		-
070030	Lead Compliance Plan	LS	1	x	2,500.00	=	\$ 2,500
141120	Treated Wood Waste	LB	x	=	\$		-
153221	Remove Concrete Barrier	LF	x	=	\$		-
150662	Remove Metal Beam Guard Railing	LF	x	=	\$		-
150668	Remove Flared End Section	EA	x	=	\$		-
8000XX	Chain Link Fence (Type XX)	LF	x	=	\$		-
80XXXX	XX" Chain Link Gate (Type CL-6)	EA	x	=	\$		-
832001	Metal Beam Guard Railing	LF	x	=	\$		-
839301	Single Thrie Beam Barrier	LF	x	=	\$		-
839310	Double Thrie Beam Barrier	LF	x	=	\$		-
839521	Cable Railing	LF	x	=	\$		-
8395XX	Terminal System (Type CAT)	EA	x	=	\$		-
839585	Alternative Flared Terminal System	EA	x	=	\$		-
839584	Alternative In-line Terminal System	EA	x	=	\$		-
4906XX	CIDH Concrete Piling (Insert Diameter)	LF	x	=	\$		-
839XXX	Crash Cushion (Insert Type)	EA	x	=	\$		-
83XXXX	Concrete Barrier (Insert Type)	LF	x	=	\$		-
520103	Bar Reinforced Steel (Retaining Wall)	LB	x	=	\$		-
510060	Structural Concrete, Retaining Wall	CY	x	=	\$		-
513553	Retaining Wall (Masonry Wall)	SQFT	x	=	\$		-
511035	Architectural Treatment	SQFT	x	=	\$		-
598001	Anti-Graffiti Coating	SQFT	x	=	\$		-
203070	Rock Stain	SQFT	x	=	\$		-
5136XX	Reinforced Concrete Crib Wall (Type X)	SQFT	x	=	\$		-
83954X	Transition Railing (Type X)	EA	x	=	\$		-
597601	Prepare and Stain Concrete	SQFT	x	=	\$		-
839561	Rail Tensioning Assembly	EA	x	=	\$		-
83958X	End Anchor Assembly (Type X)	EA	x	=	\$		-
XXXXXX	Some Item	Unit	x	=	\$		-

<b>TOTAL SPECIALTY ITEMS</b>	<b>\$</b>	<b>7,500</b>
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**SECTION 5: ENVIRONMENTAL**

**5A - ENVIRONMENTAL MITIGATION**

Item code	Unit	Quantity	Unit Price (\$)	Cost
	LS	x	= \$	-
130670	Temporary Reinforced Silt Fence	LF	= \$	-
141000	Temporary Fence (Type ESA)	LF	= \$	-
<i>Subtotal Environmental Mitigation</i>				\$ -

**5B - LANDSCAPE AND IRRIGATION**

Item code	Unit	Quantity	Unit Price (\$)	Cost
20XXXX	Highway Planting	LS	= \$	-
20XXXX	Irrigation System	LS	= \$	-
204099	Plant Establishment Work	LS	= \$	-
204101	Extend Plant Establishment Work	LS	= \$	-
20XXXX	Follow-up Landscape Project	LS	= \$	-
150685	Remove Irrigation Facility	LS	= \$	-
20XXXX	Maintain Existing (Irrigation or Planted Areas)	LS	= \$	-
206400	Check and Test Existing Irrigation Facilities	LS	= \$	-
21011X	Imported Topsoil (X)	CY/TON	= \$	-
20XXXX	Rock Blanket, Rock Mulch, DG, Gravel Mulch	SQFT/SQYD	= \$	-
200122	Weed Germination	SQYD	= \$	-
208304	Water Meter	EA	= \$	-
2087XX	XX" Conduit (Use for Irrigation x-overs)	LF	= \$	-
20890X	Extend X" Conduit (Use for Extension of Irrigation)	LF	= \$	-
XXXXXX	Erosion Control	LS	1 x 200,000.00 = \$	200,000
<i>Subtotal Landscape and Irrigation</i>				\$ 200,000

**5C - EROSION CONTROL**

Item code	Unit	Quantity	Unit Price (\$)	Cost
210010	Move In/Move Out (Erosion Control)	EA	= \$	-
210350	Fiber Rolls	LF	= \$	-
210360	Compost Sock	LF	= \$	-
2102XX	Rolled Erosion Control Product (X)	SQFT	= \$	-
21025X	Bonded Fiber Matrix	SQFT/ACRE	= \$	-
210300	Hydromulch	SQFT	= \$	-
210420	Straw	SQFT	= \$	-
210430	Hydroseed	SQFT	= \$	-
210600	Compost	SQFT	= \$	-
210630	Incorporate Materials	SQFT	= \$	-
<i>Subtotal Erosion Control</i>				\$ -

**5D - NPDES**

Item code	Unit	Quantity	Unit Price (\$)	Cost
130300	Prepare SWPPP	LS	1 x 5,000.00 = \$	5,000
130200	Prepare WPCP	LS	1 x 5,000.00 = \$	5,000
130100	Job Site Management	LS	= \$	-
130330	Storm Water Annual Report	EA	= \$	-
130310	Rain Event Action Plan (REAP)	EA	= \$	-
130320	Storm Water Sampling and Analysis Day	EA	= \$	-
130520	Temporary Hydraulic Mulch	SQYD	= \$	-
130550	Temporary Hydroseed	SQYD	= \$	-
130505	Move-In/Move-Out (Temporary Erosion Control)	EA	= \$	-
130640	Temporary Fiber Roll	LF	= \$	-
130900	Temporary Concrete Washout	LS	= \$	-
130710	Temporary Construction Entrance	EA	= \$	-
130610	Temporary Check Dam	LF	= \$	-
130620	Temporary Drainage Inlet Protection	EA	= \$	-
130730	Street Sweeping	LS	= \$	-
074023	Temporary Erosion Control	LS	1 x 65,000.00 = \$	65,000
<i>Subtotal NPDES</i>				\$ 75,000

<b>TOTAL ENVIRONMENTAL</b>	<b>\$ 275,000</b>
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**Supplemental Work for NPDES**

066595	Water Pollution Control Maintenance Sharing*	LS	x	= \$	-
066596	Additional Water Pollution Control**	LS	x	= \$	-
066597	Storm Water Sampling and Analysis***	LS	1 x 10,000.00 = \$	10,000	
XXXXXX	Some Item	LS	x	= \$	-
<i>Subtotal Supplemental Work for NDPS</i>				\$ 10,000	

\*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

\*\*Applies to both SWPPPs and WPCP projects.

\*\*\* Applies only to project with SWPPPs.

**SECTION 6: TRAFFIC ITEMS**

**6A - Traffic Electrical**

Item code	Unit	Quantity	Unit Price (\$)	Cost
860460	Lighting and Sign Illumination	LS	x	= \$ -
860201	Signal and Lighting	LS	1 x	900,000.00 = \$ 900,000
860990	Closed Circuit Television System	LS	x	= \$ -
86110X	Ramp Metering System (Location 1)	LS	1 x	150,000.00 = \$ 150,000
86070X	Interconnection Conduit and Cable	LF/LS	x	= \$ -
5602XX	Furnish Sign Structure (Type X)	LB	x	= \$ -
5602XX	Install Sign Structure (Type X)	LB	x	= \$ -
498040	XX" CIDHC Pile (Sign Foundation)	LF	x	= \$ -
86080X	Inductive Loop Detectors	EA/LS	x	= \$ -
8609XX	Traffic Monitoring Station (Type X)	LS	x	= \$ -
15075X	Remove Sign Structure	EA/LS	x	= \$ -
151581	Reconstruct Sign Structure	EA	x	= \$ -
152641	Modify Sign Structure	EA	x	= \$ -
860090	Maintain Existing Traffic Management System Eler	LS	x	= \$ -
86XXXX	Fiber Optic Conduit System	LS	x	= \$ -
XXXXX	Some Item	Unit	x	= \$ -
<b>Subtotal Traffic Electrical</b>				<b>\$ 1,050,000</b>

**6B - Traffic Signing and Striping**

Item code	Unit	Quantity	Unit Price (\$)	Cost
566011	Roadside Sign - One Post	EA	1 x	20,000.00 = \$ 20,000
566012	Roadside Sign - Two Post	EA	x	= \$ -
5602XX	Furnish Sign	SQFT	x	= \$ -
568016	Install Sign Panel on Existing Frame	SQFT	x	= \$ -
150711	Remove Painted Traffic Stripe	LF	x	= \$ -
141101	Remove Yellow Painted Traffic Stripe (Hazardous Waste)	LF	x	= \$ -
150712	Remove Painted Pavement Marking	SQFT	x	= \$ -
150742	Remove Roadside Sign	EA	x	= \$ -
152320	Reset Roadside Sign	EA	x	= \$ -
152390	Relocate Roadside Sign	EA	x	= \$ -
82010X	Delineator (Class X)	EA	x	= \$ -
840502	Thermoplastic Traffic Stripe (Enhanced Wet Night	LF	1 x	15,000.00 = \$ 15,000
846012	Thermoplastic Crosswalk and Pavement Marking (	SQFT	1 x	10,000.00 = \$ 10,000
120090	Construction Area Signs	LS	1 x	20,000.00 = \$ 20,000
84XXXX	Permanent Pavement Delineation	LS	x	= \$ -
560XXX	Overhead Sign Structure	EA	6 x	250,000.00 = \$ 1,500,000
<b>Subtotal Traffic Signing and Striping</b>				<b>\$ 1,565,000</b>

**6C - Traffic Management Plan**

Item code	Unit	Quantity	Unit Price (\$)	Cost
12865X	Portable Changeable Message Signs	EA/LS	x	= \$ -
<b>Subtotal Traffic Management Plan</b>				<b>\$ -</b>

**6C - Stage Construction and Traffic Handling**

Item code	Unit	Quantity	Unit Price (\$)	Cost
120199	Traffic Plastic Drum	EA	x	= \$ -
12016X	Channelizer (Type X)	EA	x	= \$ -
120120	Type III Barricade	EA	x	= \$ -
129100	Temporary Crash Cushion Module	EA	x	= \$ -
120100	Traffic Control System	LS	1 x	500,000.00 = \$ 500,000
129110	Temporary Crash Cushion	EA	x	= \$ -
129000	Temporary Railing (Type K)	LF	x	= \$ -
120149	Temporary Pavement Marking (Paint)	SQFT	x	= \$ -
82010X	Delineator (Class X)	EA	x	= \$ -
XXXXXX	Some Item	Unit	x	= \$ -
<b>Subtotal Stage Construction and Traffic Handling</b>				<b>\$ 500,000</b>

<b>TOTAL TRAFFIC ITEMS</b>	<b>\$ 3,115,000</b>
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**SECTION 7: DETOURS**

Includes constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
190101	Roadway Excavation	CY	x	= \$ -
19801X	Imported Borrow	CY/TON	x	= \$ -
390132	Hot Mix Asphalt (Type A)	TON	x	= \$ -
26020X	Class 2 Aggregate Base	TON/CY	x	= \$ -
250401	Class 4 Aggregate Subbase	CY	x	= \$ -
130620	Temporary Drainage Inlet Protection	EA	x	= \$ -
129000	Temporary Railing (Type K)	LF	x	= \$ -
128601	Temporary Signal System	LS	x	= \$ -
120149	Temporary Pavement Marking (Paint)	SQFT	x	= \$ -
80010X	Temporary Fence (Type X)	LF	x	= \$ -
XXXXXX	Some Item	LS	x	= \$ -

\* Includes constructing, maintaining, and removal

<b>TOTAL DETOURS</b>	<b>\$</b>	<b>-</b>
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<b>SUBTOTAL SECTIONS 1 through 7</b>	<b>\$</b>	<b>6,892,000</b>
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**SECTION 8: MINOR ITEMS**

**8A - Americans with Disabilities Act Items**

ADA Items	0.0%	\$	-
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**8B - Bike Path Items**

Bike Path Items	0.0%	\$	-
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**8C - Other Minor Items**

Other Minor Items	5.0%	\$	344,600
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Total of Section 1-7	\$	6,892,000	x	5.0%	= \$	344,600
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<b>TOTAL MINOR ITEMS</b>	<b>\$</b>	<b>344,600</b>
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**SECTIONS 9: ROADWAY MOBILIZATION**

Item code	Unit	Quantity	Unit Price (\$)	Cost			
999990	Total Section 1-8	\$	7,236,600	x	10%	= \$	723,660

<b>TOTAL ROADWAY MOBILIZATION</b>	<b>\$</b>	<b>723,700</b>
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**SECTION 10: SUPPLEMENTAL WORK**

Item code	Unit	Quantity	Unit Price (\$)	Cost
066670	Payment Adjustments For Price Index Fluctuations	LS	x	= \$ -
066094	Value Analysis	LS	x	= \$ -
066070	Maintain Traffic	LS	x	= \$ -
066919	Dispute Resolution Board	LS	x	= \$ -
066921	Dispute Resolution Advisor	LS	x	= \$ -
066015	Federal Trainee Program	LS	x	= \$ -
066610	Partnering	LS	x	= \$ -
066204	Remove Rock and Debris	LS	x	= \$ -
066222	Locate Existing Crossover	LS	x	= \$ -
XXXXXX	Some Item	Unit	x	= \$ -

Cost of **NPDES** Supplemental Work specified in Section 5D = \$ 10,000

Total Section 1-8	\$	7,236,600	5%	= \$	361,830
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<b>TOTAL SUPPLEMENTAL WORK</b>	<b>\$</b>	<b>371,900</b>
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**SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES**

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
066105	Resident Engineers Office	LS		x		=	\$0
066063	Traffic Management Plan - Public Information	LS	1	x	6,000.00	=	\$6,000
066901	Water Expenses	LS		x		=	\$0
8609XX	Traffic Monitoring Station (X)	LS		x		=	\$0
066841	Traffic Controller Assembly	LS		x		=	\$0
066840	Traffic Signal Controller Assembly	LS	1	x	10,000.00	=	\$10,000
066062	COZEEP Contract	LS	1	x	100,000.00	=	\$100,000
066838	Reflective Numbers and Edge Sealer	LS		x		=	\$0
066065	Tow Truck Service Patrol	LS		x		=	\$0
066916	Annual Construction General Permit Fee	LS		x		=	\$0
06684X	Ramp Controller Assembly	LS	1	x	2,000.00	=	\$2,000
Total Section 1-8			\$ 7,236,600		0%	= \$	-
<b>TOTAL STATE FURNISHED</b>							<b>\$118,000</b>

**SECTION 12: TIME-RELATED OVERHEAD**

Total of Roadway and Structures Contract Items excluding Mobilization \$9,254,520 (used to calculate TRO)  
 Total Construction Cost (excluding TRO and Contingency) \$10,636,280 (used to check if project is greater than \$5 million excluding contingency)

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = **5%**

Item code		Unit	Quantity		Unit Price (\$)	=	Cost
090100	Time-Related Overhead	WD	220	X	\$2,104	=	\$462,800
<b>TOTAL TIME-RELATED OVERHEAD</b>							<b>\$462,800</b>

**SECTION 13: ROADWAY CONTINGENCY**

Total Section 1-12	\$	8,913,000	x	20%	=	\$1,782,600	
<b>TOTAL CONTINGENCY</b>							<b>\$1,782,600</b>



**II. STRUCTURE ITEMS**

	<u>Bridge 1</u>		<u>Bridge 2</u>		
DATE OF ESTIMATE	04/16/20		00/00/00		00/00/00
Bridge Name	Hood-Franklin RD OC		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Bridge Number	24-0326		57-XXX		57-XXX
Structure Type	CIP P/S Conc BOX GIRDER		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	17'-9" LF		0 LF		0 LF
Total Bridge Length (Feet)	236'-10" LF		0 LF		0 LF
Total Area (Square Feet)	4204 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	6'-9" LF		0 LF		0 LF
Footing Type (pile or spread)	TBD		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$400		\$0		\$0
<b>COST OF EACH</b>	<b>\$1,681,600</b>		<b>\$0</b>		<b>\$0</b>

	<u>Building 1</u>				
DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0 LF		0 LF		0 LF
Total Building Length (Feet)	0 LF		0 LF		0 LF
Total Area (Square Feet)	0 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	0 LF		0 LF		0 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0		\$0		\$0
<b>COST OF EACH</b>	<b>\$0</b>		<b>\$0</b>		<b>\$0</b>

<b>TOTAL COST OF BRIDGES</b>	<b>\$1,681,600</b>
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<b>TOTAL COST OF BUILDINGS</b>	<b>\$0</b>
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<b>STRUCTURES MOBILIZATION</b>	10%	<b>\$168,160</b>
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Recommended Contingency: (Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total recommended percentages includes any quantified risk based contingency from the risk register.

<b>STRUCTURES CONTINGENCY</b>	20%	<b>\$336,320</b>
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<b>TOTAL COST OF STRUCTURES</b>	<b>\$2,186,080</b>
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Estimate Prepared By: \_\_\_\_\_  
 XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

\_\_\_\_\_  
 Date

### III. RIGHT OF WAY

Fill in all of the available information from the Right of Way Data Sheet.

A)	A1)	Acquisition, including Excess Land Purchases, Damages & Goodwill, Fees	\$	100,000
	A2)	SB-1210	\$	0
B)		Acquisition of Offsite Mitigation	\$	0
C)	C1)	Utility Relocation (State Share)	\$	0
	C2)	Potholing (Design Phase)	\$	0
D)		Railroad Acquisition	\$	0
E)		Clearance / Demolition	\$	20,000
F)		Relocation Assistance (RAP and/or Last Resort Housing Costs)	\$	0
G)		Title and Escrow	\$	10,000
H)		Environmental Review	\$	0
I)		Condemnation Settlements <u>25%</u>	\$	25,000
J)		Design Appreciation Factor <u>0%</u>	\$	0
K)		Utility Relocation (Construction Cost)	\$	50,000

L) 

<b>TOTAL RIGHT OF WAY ESTIMATE</b>	<b>\$205,000</b>
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M) 

<b>TOTAL R/W ESTIMATE: Escalated</b>	<b>\$307,500</b>
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N) 

<b>RIGHT OF WAY SUPPORT</b>	<b>\$241,918</b>
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Support Cost Estimate  
Prepared By \_\_\_\_\_  
Project Coordinator<sup>1</sup> Phone \_\_\_\_\_

Utility Estimate Prepared  
By \_\_\_\_\_  
Utility Coordinator<sup>2</sup> Phone \_\_\_\_\_

R/W Acquisition Estimate  
Prepared By \_\_\_\_\_  
Right of Way Estimator<sup>3</sup> Phone \_\_\_\_\_

Note: Items G & H applied to items A + B

<sup>1</sup> When estimate has Support Costs only

<sup>2</sup> When estimate has Utility Relocation

<sup>3</sup> When R/W Acquisition is required

### IV. SUPPORT COST ESTIMATE SUMMARY

Run a [Support Cost Estimate Summary](#) report (D11 Project Management Support onramp) for component data.

Total by FY		Unescalated-Risk Loaded				Total \$	Escalated (4.2% per year for ETC, effective 1/2/2018)				Total \$
		PA&ED	PS&E	RW	CON		PA&ED	PS&E	RW	CON	
<2016	Expended										
	ETC										
2017	Expended										
	ETC										
2018	Expended										
	ETC										
2019	Expended										
	ETC										
2020	Expended										
	ETC										
2021	Expended					\$1,545,802					
	ETC		\$1,545,802								
2022	Expended					\$193,225					
	ETC			\$193,225							
2023	Expended										
	ETC				\$1,932,252						
2024	Expended										
	ETC										
2025	Expended										
	ETC										
2026	Expended										
	ETC										
2027	Expended										
	ETC										
2028	Expended										
	ETC							\$1,935,344			\$1,935,344
2029	Expended									\$241,918	\$241,918
	ETC										
>2030	Expended										
	ETC									\$2,419,180	\$2,419,180
EAC (Expended + ETC)		\$0	\$1,545,802	\$193,225	\$1,932,252	\$3,671,279	\$0	\$1,935,344	\$241,918	\$2,419,180	\$4,596,441
Risk Amount from Risk Register		\$0	\$0	\$0	\$0	Escalated Risk Amt	\$0	\$0	\$0	\$0	\$0
Support Escalation Rate		0.0%	0.0%	0.0%	0.0%						
Duration to mid-point component		0.00	0.00	0.00	0.00						
Total including Risk Amount		\$0	\$1,545,802	\$193,225	\$1,932,252	Total Esc. Support	\$0	\$1,935,344	\$241,918	\$2,419,180	\$4,596,441
Approved Budget (PRSM)											
Difference (Budget - EAC)		\$0	-\$1,545,802	-\$193,225	-\$1,932,252	-\$3,671,279	\$0	-\$1,935,344	-\$241,918	-\$2,419,180	-\$4,596,441
Support Ratio (EAC / Cap Cost)		0.0%	11.8%	1.5%	14.8%	28.1%	0.0%	14.8%	1.8%	18.5%	35.1%

Note: If you have al

<b>Total Capital Cost:</b>	<b>\$13,087,000</b>
<b>Total Capital Outlay Support Cost:</b>	<b>\$4,596,441</b>
<b>Overall Percent Support Cost:</b>	<b>35.12%</b>

PRSM workplan hours/costs verified against approved MWA:

Approved by:

\_\_\_\_\_  
Office Chief - \_\_\_\_\_ Date

\_\_\_\_\_  
Project Control - \_\_\_\_\_ Date

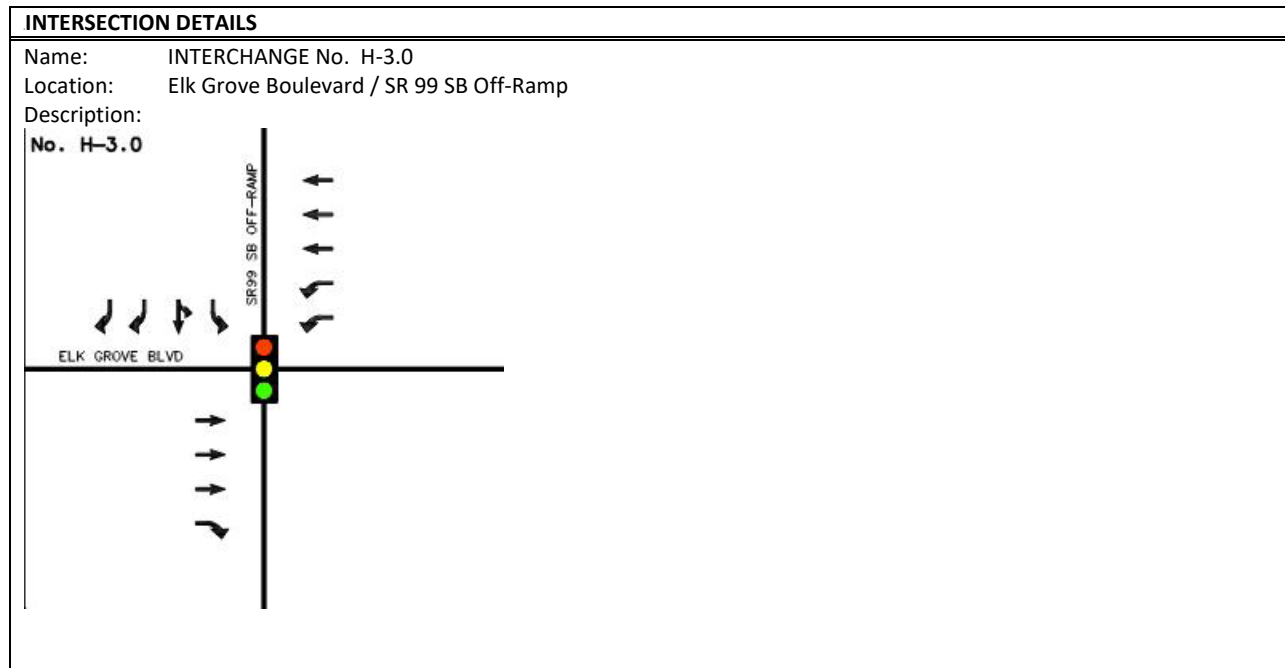
**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**

<b>INTERSECTION DETAILS</b>						
Name: INTERCHANGE No. H-3.0						
Location: Elk Grove Boulevard / SR 99 SB Off-Ramp						
Description: SR 99 Off-ramp and Elk Grove Boulevard Intersection. Extend right turn off-ramp storage along SB-99 off-ramp from 225 feet to 450 feet. New pavement for 225 feet and overlay for the entire off-ramp.						
<p>No. H-3.0</p>						
<u>Leg</u>	<u>Rdwy Name</u>	<u>Pvmt Condition</u>	<u>Present Rdwy Class</u>	<u>Future Rdwy Class</u>	<u>Length</u>	<u>Pavement Section</u>
North	SR 99			Freeway	450	6.5" HMA on 23" AB
South	SR 99			Freeway	0	6.5" HMA on 23" AB
East	Elk Grove Blvd			Major Arterial	0	6.5" HMA on 23" AB
West	Elk Grove Blvd			Major Arterial	0	6.5" HMA on 23" AB

**TASK 2 – ENTIRE STUDY AREA**

<b>1 EARTHWORK</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
1.1	ROADWAY EXCAVATION	CY	\$30.00	1,150	\$34,500.00
<b>TOTAL FOR ITEM 1 EARTHWORK</b>					<b>\$34,500.00</b>
<b>2 DRAINAGE</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
2.1	DRAINAGE	LF	\$185.00	120	\$22,200.00
<b>TOTAL FOR ITEM 2 DRAINAGE</b>					<b>\$22,200.00</b>
<b>3 PAVEMENT</b>					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
3.1	ASPHALT CONCRETE	TON	\$90.00	840	\$75,600.00
3.2	AGGREGATE BASE	CY	\$60.00	900	\$54,000.00
3.3	SIDEWALK	SF	\$12.00	0	\$0.00
3.4	CURB & GUTTER	LF	\$45.00	0	\$0.00
3.5	MEDIAN CURB & 2' CONCRETE LANDSCAPE STRIP	LF	\$17.00	0	\$0.00
<b>TOTAL FOR ITEM 3 PAVEMENT</b>					<b>\$129,600.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



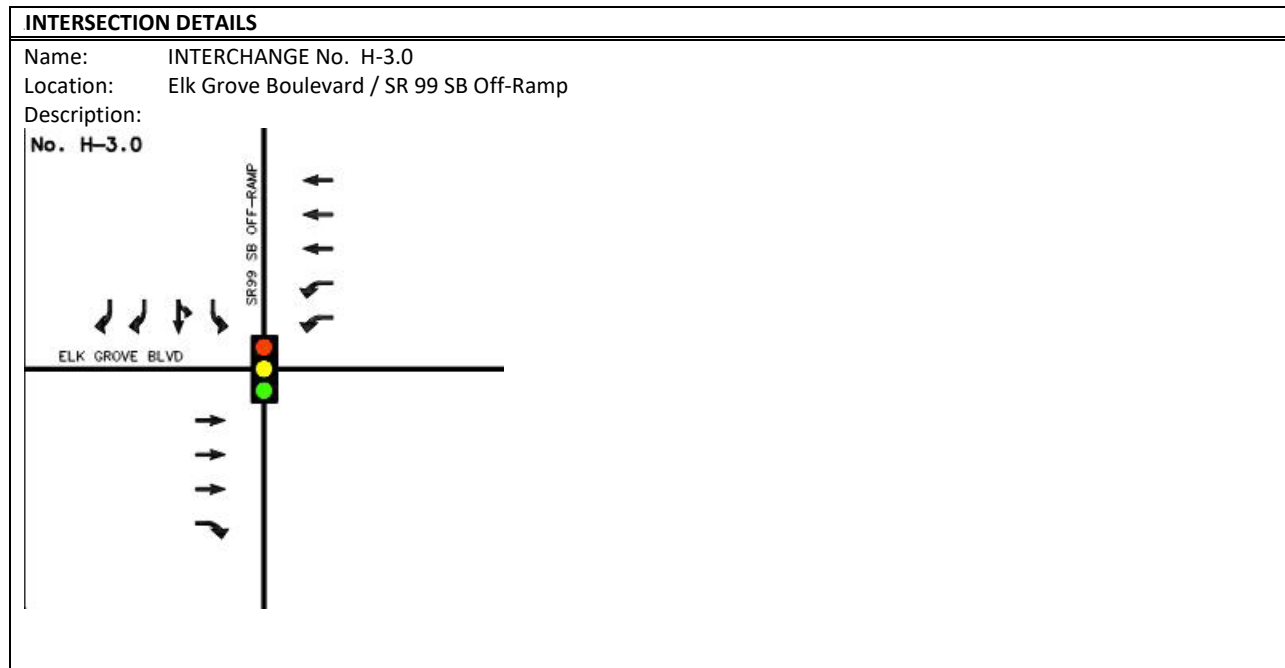
4 MISCELLANEOUS					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
4.1	TRAFFIC SIGNAL	LS	\$300,000.00		\$0.00
4.2	TRAFFIC SIGNAL MODIFICATION	LS	\$100,000.00	0	\$0.00
4.3	STREET LIGHTS / ELECTROLIERS	EA	\$10,000.00	0	\$0.00
4.4	FIBER OPTIC CABLE	LF	\$56.00		\$0.00
4.5	NETWORK SYSTEM EQUIPMENT	EA	\$15,000.00		\$0.00
4.6	LANDSCAPING	SF	\$10.00	0	\$0.00
<b>TOTAL FOR ITEM 4 MISCELLANEOUS</b>					<b>\$0.00</b>

5 MINOR ITEMS					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
5.1	MINOR ITEMS	LS	25%	Sections 1-4	\$46,600.00
<b>TOTAL FOR ITEM 5 MINOR ITEMS</b>					<b>\$46,600.00</b>

6 STRUCTURES (CALCULATED SEPARATELY)					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
6.1	CULVERTS	LF	\$500	0	\$0.00
6.2	RETAINING WALLS	SF	\$150	0	\$0.00
6.3	RAILROADS CROSSING	LS	\$0.00	0	\$0.00
<b>TOTAL FOR ITEM 6 STRUCTURES</b>					<b>\$0.00</b>

7 CONTINGENCY		
	SUBTOTAL CONSTRUCTION COSTS:	\$232,900.00
	CONTINGENCY: 15%	→ \$35,000.00
	<b>TOTAL CONSTRUCTION COSTS:</b>	<b>\$267,900.00</b>

**Conceptual Cost Estimate Summary – EG Roadway Intersection Fee Study**



8 ENGINEERING & MANAGEMENT					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
8.1	ENGINEERING AND SURVEYING	LS	H-3.0%	CON. COST	\$40,200.00
8.2	STAKING, PERMITTING, AND INSPECTION	LS	10%	CON. COST	\$26,800.00
8.3	CALTRANS COORDINATION	LS	3%	CON. COST	\$8,100.00
<b>TOTAL FOR ITEM 8 ENGINEERING &amp; MANAGEMENT</b>					<b>\$75,100.00</b>

**TOTAL PROJECT COST \*: \$343,000.00**

\* EXCLUDES RIGHT-OF-WAY, UTILITY, AND ENVIRONMENTAL MITIGATION

**RIGHT-OF-WAY, UTILITY RELOCATION, AND ENVIRONMENTAL MITIGATION COST ANALYSIS**

9 RIGHT-OF-WAY					
	ITEM DESCRIPTION	UNIT	PRICE	QUANTITY	COST
9.1	RIGHT-OF-WAY	SF	\$9.25	0	\$0.00
9.2	EASEMENT	SF	\$0	0	\$0.00
9.3	ACQUISITION SOFT COST	LF	\$120.00	0	\$0.00
9.4	CONTINGENCY	LS	10% OF	ROW COST	\$0.00
<b>TOTAL FOR ITEM 9 RIGHT-OF-WAY</b>					<b>\$0.00</b>

10 UTILITY RELOCATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
10.1	UTILITY RELOCATION	LS	10%	CON. COST	\$26,800.00
<b>TOTAL FOR ITEM 10 UTILITY RELOCATION</b>					<b>\$26,800.00</b>

11 ENVIRONMENTAL MITIGATION					
	ITEM DESCRIPTION	UNIT	PERCENTAGE	OF	COST
11.1	ENVIRONMENTAL MITIGATION	LS	3%	CON. COST	\$8,100.00
<b>TOTAL FOR ITEM 11 ENVIRONMENTAL MITIGATION</b>					<b>\$8,100.00</b>

**TOTAL COST (RIGHT-OF-WAY, UTILITY RELOCATION, & ENVIRONMENTAL MITIGATION): \$34,900.00**