



8400 LAGUNA PALMS WAY • ELK GROVE, CALIFORNIA 95758
TEL: 916.683.7111 • FAX: 916.691.2001 • www.elkgrovecity.org

PUBLIC WORKS DEPARTMENT

Modification of or Addition to Improvement Standards and Details

Modification Number: 090905-1

Effective Date of Change: September 16, 2005

Modification:

1. **Add standard details ST-11 through ST-19, Street Lights – Zone 2**
2. **Add standard details ST-20 through ST-27, Street Lights (both Zone 1 and Zone 2 facilities)**

All Zone 2 street lights shall be City-furnished with installation by project's contractor. Orders shall be paid for and initiated prior to approval of street lighting plan and/or encroachment permit.

Effect of Modification:

Adds a decorative light standard for use in Zone 2. Zone 2 is the area bounded to the north by Elk Grove Boulevard (inclusive) and to the east and west by Highway 99 and Bruceville Road, respectively. Additionally, modifies County standards regarding the location of street lighting and details for the design and installation of the street lighting system. The City will be the owner and provide all inspection and maintenance of all street lighting within the City effective October 1, 2005.

Request for Modification Initiated By:

Don Crawford

Date

Modification Reviewed for Conformity and Consistency to Standards:

Janet B. B. B.

Manager – Development Engineering

9/22/05

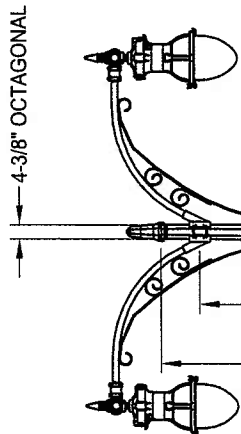
Date

Modification to Improvement Standards Approved:

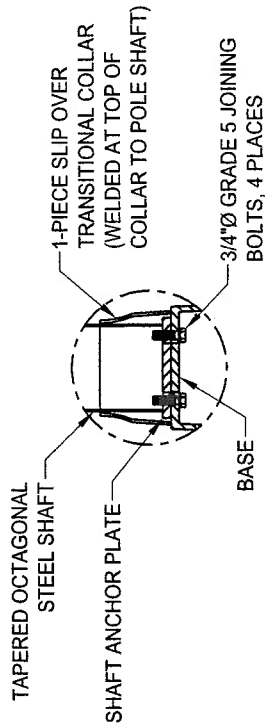
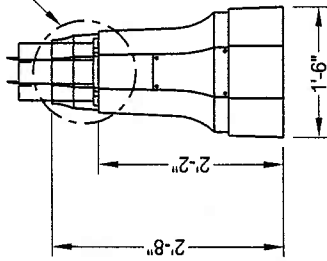
Don Lee

City Engineer

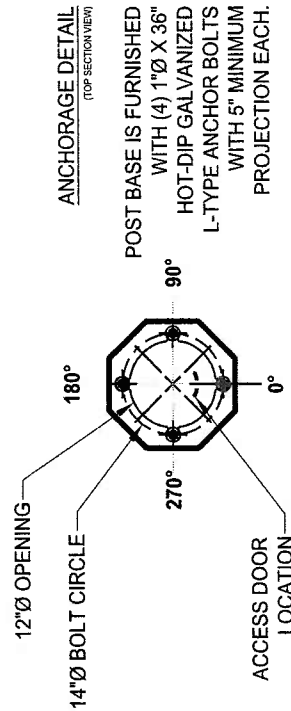
Date



SEE DETAIL A
FOR SHAFT MOUNTING

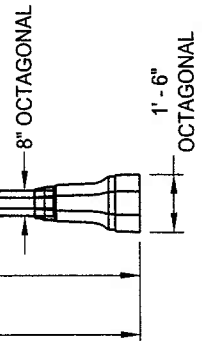


DETAIL A



ANCHORAGE DETAIL
(TOP SECTION VIEW)

POST BASE IS FURNISHED WITH (4) 1"Ø X 36" HOT-DIP GALVANIZED L-TYPE ANCHOR BOLTS WITH 5" MINIMUM PROJECTION EACH.



SPECIFICATIONS

POST BASE

THE BASE SHALL BE CAST IRON CONSTRUCTION WITH A TAPERED AND STEPPED OCTAGONAL PATTERN. A 1-PIECE SLIP OVER TRANSITION COLLAR COVERS THE BASE OF THE SHAFT. A DOOR IS LOCATED IN THE BASE FOR ANCHORAGE AND WIRING ACCESS. A GROUND SCREW (5/8") SHALL BE PROVIDED INSIDE THE BASE, OPPOSITE THE ACCESS DOOR.

POST SHAFT

THE POST SHAFT SHALL BE 11-GAUGE STEEL WITH A STEEL PLATE FOR MOUNTING TO THE BASE. THE OCTAGONAL SHAFT TAPERS FROM 8" (FLAT TO FLAT) AT THE BOTTOM TO 4-3/8" AT THE TOP, WITH A DECORATIVE OCTAGONAL FINIAL.

CROSSARM

THE CLAMP ON CROSSARM SHALL BE ALUMINUM PIPE CONSTRUCTION WITH FLAT BAR SCROLLS AND 1-1/2" X 1/2" FLAT BAR CLAMP-ON BRACE. ARMS SHALL HAVE A 2" PIPE SLEEVE FOR LUMINAIRE MOUNTING. THE CROSSARM MEASURES 52" FROM POST TO LUMINAIRE CENTERS. A LUMINAIRE LEVELING FITTER SHALL BE MOUNTED TO THE END OF THE PIPE ARM FOR LUMINAIRE MOUNTING.

FINISH

THE POST SHALL BE SHIPPED FINISHED WITH A STANDARD HOLOPHANE BLACK POWDER COAT FINISH.

NOTE

ALL HARDWARE STAINLESS STEEL. ALL EXTERIOR HARDWARE TAMPER RESISTANT. BASE AND SHAFT TO BE SHIPPED AS A ONE-PIECE UNIT.

ALL LIGHTING SHALL BE CITY FURNISHED. CONTRACTOR SHALL PURCHASE FROM CITY AND CONSTRUCT FOUNDATIONS AND INSTALL.

APPROVED BY:

Paul J. Dan
CITY ENGINEER



DRAWING NUMBER

ST - 11

CITY OF ELK GROVE - PUBLIC WORKS

**STREET LIGHTS - ZONE 2
MEDIAN LOCATION (DUAL ARM)**

9/9/2005 NOT TO SCALE

REVISION BY APPROVED DATE

REVISION	BY	APPROVED	DATE

SPECIFICATIONS

POST BASE

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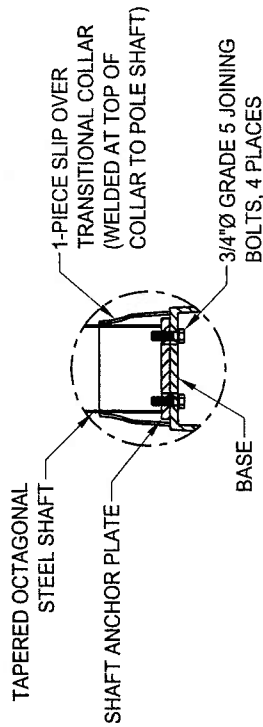
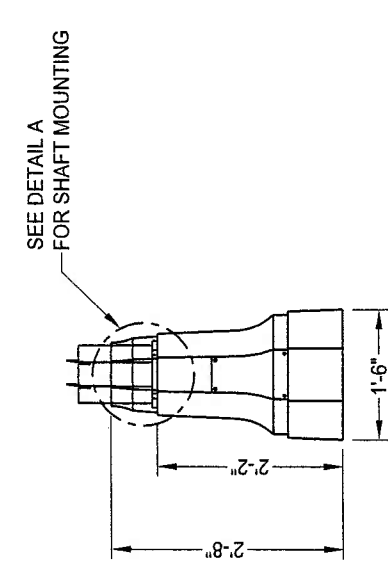
NOTE

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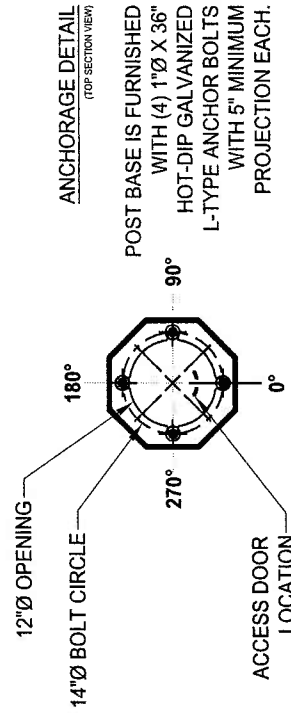
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DESCRIPTION

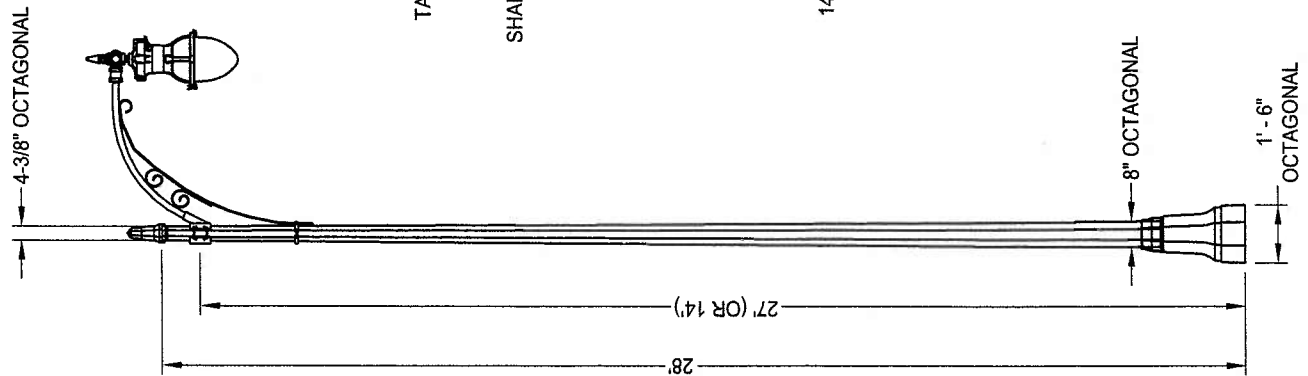
THE ESPLANADE LUMINAIRE IS STYLED TO REPLICATE THE "TEARDROP" LUMINAIRES THAT LIGHTED BOULEVARDS IN THE FIRST HALF OF THIS CENTURY. DESIGNED FOR LIGHT CONTROL AND EASE OF INSTALLATION AND MAINTENANCE, THE ESPLANADE HAS A PRECISION OPTICAL SYSTEM FOR TRUE STREET LIGHTING PERFORMANCE.
FOR COMPLETE LUMINAIRE SPECIFICATIONS, SEE STANDARD DETAIL ST - 14 AND ST - 15.



DETAIL A



ANCHORAGE DETAIL
(TOP SECTION VIEW)



APPROVED BY:
Rout 2 June
CITY ENGINEER



DRAWING NUMBER

ST - 12

CITY OF ELK GROVE - PUBLIC WORKS

STREET LIGHTS - ZONE 2
ARTERIAL (REDUCED MEDIAN) AND COLLECTOR
STREET LIGHT POLE

9/9/2005 NOT TO SCALE

REVISION	BY	APPROVED	DATE

SPECIFICATIONS

POST DESCRIPTION

THE LIGHTING POST SHALL BE ALL ALUMINUM, ONE-PIECE CONSTRUCTION, WITH A CLASSIC FLUTED BASE DESIGN. THE SHAFT SHALL BE Ø4" SMOOTH. THE POST SHALL BE SHIPPED WITH A STANDARD HALOPHANE BLACK POWDER COAT FINISH.

MATERIALS

THE BASE SHALL BE HEAVY WALL, CAST ALUMINUM PRODUCED FROM CERTIFIED ASTM 356.1 INGOT PER ASTM B-179-95A OR ASTM B26-95. THE STRAIGHT SHAFTS SHALL BE EXTRUDED FROM ALUMINUM, ASTM 6061 ALLOY, HEAT TREATED TO A T6 TEMPER. ALL HARDWARE SHALL BE TAMPER RESISTANT STAINLESS STEEL. ANCHOR BOLTS TO BE COMPLETELY HOT DIP GALVANIZED.

CONSTRUCTION

THE SHAFT SHALL BE DOUBLE WELDED TO THE BASE CASTING AND SHIPPED AS ONE PIECE FOR MAXIMUM STRUCTURAL INTEGRITY. THE SHAFT SHALL BE CIRCUMFERENTIALLY WELDED INSIDE THE BASE CASTING AT THE TOP OF THE ACCESS DOOR, AND EXTERNALLY WHERE THE SHAFT EXITS THE BASE. ALL EXPOSED WELDS BELOW 8" SHALL BE GROUND SMOOTH. ALL WELDING SHALL BE PER ANSII/AWS D1.2-90. ALL WELDERS SHALL BE CERTIFIED PER SECTION 5 OF ANSII/AWS D1.2-90.

DIMENSIONS

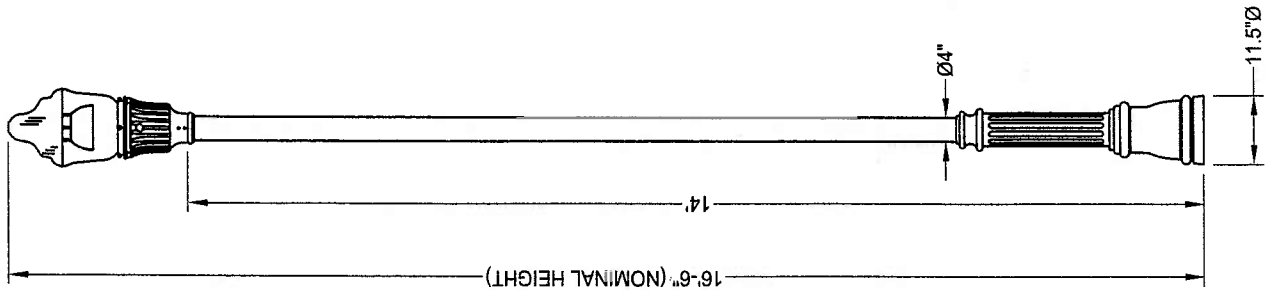
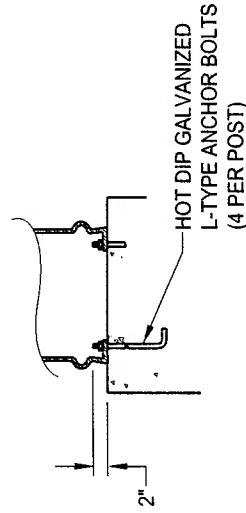
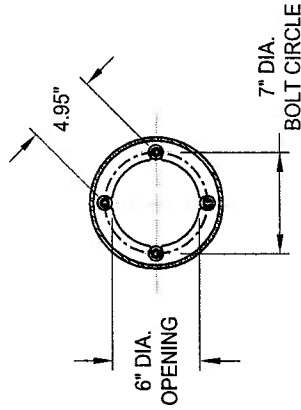
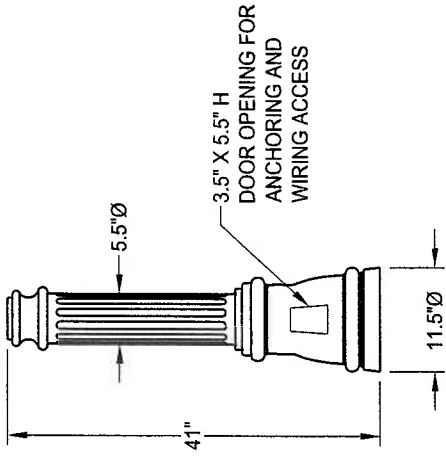
THE POST SHALL BE 14' IN HEIGHT WITH AN 11-1/2" DIAMETER BASE. THE SHAFT DIAMETER SHALL BE 4". AT THE TOP OF THE POST, AN INTEGRAL 3" O.D. TENON WITH A TRANSITIONAL DONUT SHALL BE PROVIDED FOR LUMINAIRE MOUNTING.

INSTALLATION

THE POST SHALL BE PROVIDED WITH FOUR, HOT DIP GALVANIZED L-TYPE ANCHOR BOLTS TO BE INSTALLED ON AN 8" DIAMETER BOLT CIRCLE. A DOOR SHALL BE PROVIDED IN THE BASE FOR ANCHORAGE AND WIRING ACCESS. A GROUNDING SCREW (5/8") SHALL BE PROVIDED INSIDE THE BASE OPPOSITE THE DOOR.

NOTE

ALL LIGHTING SHALL BE CITY FURNISHED. THE CONTRACTOR SHALL PURCHASE FROM CITY AND CONSTRUCT FOUNDATIONS AND INSTALL.



9/19/2005	NOT TO SCALE		
REVISION	BY	APPROVED	DATE

CITY OF ELK GROVE - PUBLIC WORKS

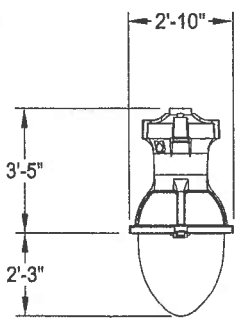
STREET LIGHTS - ZONE 2
PEDESTRIAN TRAILS AND RESIDENTIAL STREETS

APPROVED BY:
[Signature]
CITY ENGINEER

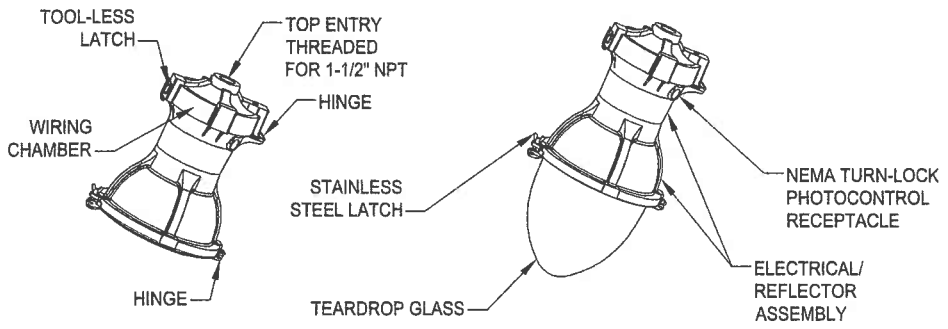


DRAWING NUMBER

ST - 13



MAXIMUM EFFECTIVE PROJECTED AREA - 2.37 FT²
MAXIMUM WEIGHT - 66 LBS



COVER TYPE	BALLAST TYPE	VOLTAGE	HOUSING COLOR	OPTICS
ESU =	(MOGUL BASE)	12 = 120 VOLT	BLACK	4 = TEARDROP ASYMMETRIC (OPTIONS)
ESPLANADE	100HP = 100W HPS			6 = SAG CLEAR SYMMETRIC
UTILITY	15AHP = 150W 55V HPS			7 = SAG CLEAR ASYMMETRIC
	250HP = 250 W HPS			

OPTIONS
 DS = DEEP SKIRT
 SS = SHALLOW SKIRT
 PS = PROTECTED STARTER (HPS ONLY)
 R = TURN-LOCK PHOTOCONTROL RECEPTACLE (REQUIRED)

SPECIFICATIONS

DESCRIPTION

THE ESPLANADE LUMINAIRE IS STYLED TO REPLICATE THE "TEARDROP" LUMINAIRES THAT LIGHTED BOULEVARDS IN THE FIRST HALF OF THIS CENTURY. DESIGNED FOR LIGHT CONTROL AND EASE OF INSTALLATION AND MAINTENANCE, THE ESPLANADE HAS A PRECISION OPTICAL SYSTEM FOR TRUE STREET LIGHTING PERFORMANCE.

WIRING CHAMBER

THE WIRING CHAMBER HAS A 1-1/2 INCH, GASKETED, NPT THREADED ENTRY FOR PENDANT MOUNTING. A STAINLESS STEEL SET SCREW LOCKS THE UNIT IN POSITION. A THREE STATION TERMINAL BLOCK WILL ACCEPT #14 THROUGH #2 WIRES AND IS PREWIRED TO ONE HALF OF THE PLUG ASSEMBLY THAT CONNECTS TO THE REMOVABLE ELECTRICAL MODULE.

ELECTRICAL / REFLECTOR ASSEMBLY

THE ELECTRICAL / REFLECTOR ASSEMBLY HINGES DOWN FROM THE WIRING CHAMBER FOR EASE IN WIRING AND TO FACILITATE THE REMOVAL OF THE ELECTRICAL MODULE. THE ASSEMBLY IS SECURED IN PLACE BY A STAINLESS STEEL LATCH. THE UNITIZED ELECTRICAL MODULE CONSISTS OF THE BALLAST MOUNTED TO AN ALUMINUM PLATE THAT IS EASILY REMOVED BY LOOSENING TWO SCREWS IN KEYHOLE SLOTS. THE DISCONNECT PLUG CONNECTS THE BALLAST TO THE TERMINAL BLOCK IN THE WIRING CHAMBER. THE SOCKET IS STREET LIGHTING GRADE WITH NICKEL PLATED LAMP GRIP SHELL, CENTER CONTACT BACKED BY A COILED SPRING AND GLAZED PORCELAIN BODY. THE ANODIZED AND BRIGHTENED REFLECTOR IS FORMED WITH FLUTES TO CONTROL VOLTAGE RISE IN THE LAMP AND TO WORK IN CONJUNCTION WITH THE REFRACTOR TO PROVIDE THE DESIRED DISTRIBUTION OF LIGHT.

REFRACTOR / DOOR ASSEMBLY

THE CAST ALUMINUM DOOR CRADLES A TEARDROP OR SAG SHAPED, THERMAL RESISTANT BOROSILICATE GLASS REFRACTOR THAT CONTROLS THE LIGHT TO PROVIDE AN I.E.S. SYMMETRIC OR ASYMMETRIC CUT OFF DISTRIBUTION. THE COMBINATION OF REFLECTOR, REFRACTOR AND VERTICAL BURNING LAMP MAXIMIZE EFFICIENCY AND UNIFORMITY OF ILLUMINATION WHILE CONTROLLING LUMINAIRE BRIGHTNESS. THE REFRACTOR ASSEMBLY AND DECORATIVE SKIRT (WHEN APPLICABLE) ASSEMBLY HINGES FROM THE ELECTRICAL / REFLECTOR ASSEMBLY AND IS LATCHED BY A STAINLESS STEEL, CAPTIVE, WING NUT ASSEMBLY.

BALLAST

(REFER TO BALLAST DATA SHEET FOR SPECIFIC OPERATING CHARACTERISTICS)
 150 WATT AND BELOW 120 VOLT HIGH PRESSURE SODIUM (HPS) BALLASTS ARE HIGH POWER FACTOR REACTOR TYPE. ALL OTHER 150 WATT AND BELOW ARE HIGH POWER FACTOR AUTOTRANSFORMER TYPE. 250 AND 400 WATT HPS BALLASTS ARE LEAD TYPE.
 ALL METAL HALIDE (MH) BALLASTS ARE PEAK LEAD AUTOTRANSFORMER TYPE.

FINISH / MATERIAL

THE LUMINAIRE IS FINISHED WITH POLYESTER POWDER PAINT APPLIED AFTER A SEVEN STAGE PRETREATMENT PROCESS TO INSURE MAXIMUM DURABILITY. ALL CASTINGS UTILIZE ALLOY #356 ALUMINUM FOR MAXIMUM CORROSION RESISTANCE AND ALL EXPOSED HARDWARE IS STAINLESS STEEL.

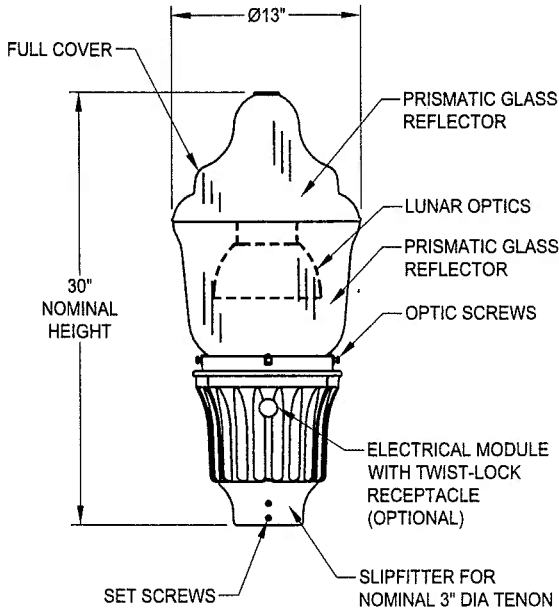
CUL/U.L. LISTING

CUL/U.L. LISTING SUITABLE FOR WET LOCATIONS AT 40 DEGREES C.

9/13/2005	NOT TO SCALE	CITY OF ELK GROVE - PUBLIC WORKS	APPROVED BY: CITY ENGINEER
REVISION	BY	STREET LIGHTS - ZONE 2 ARTERIAL - MEDIAN & SIDE MOUNTED STREET LIGHT FIXTURE	DRAWING NUMBER ST- 14
			DRAWING NUMBER
			ST- 14

UTILITY GRANVILLE® SERIES LUMINAIRE WITH LUNAR OPTICS™

MAXIMUM WEIGHT - 48 LBS.
MAXIMUM EFFECTIVE PROJECTED AREA - 1.38 S.F.



BALLAST TYPE (MOGUL BASE)

100HP = 100W HPS
15AHP = 150W 55V HPS

VOLTAGE

12 = 120 VOLT

HOUSING COLOR

B = BLACK

OPTICAL TYPE

6 = IES TYPE II DIST. WITH LUNAR OPTICS (IES) CUTOFF

7 = IES TYPE III DIST. WITH LUNAR OPTICS (IES) CUTOFF

8 = IES TYPE V DIST. WITH LUNAR OPTICS (IES) CUTOFF

NO DECORATIVE

FINIAL

N = NONE

TRIM FINISH

B = BLACK

OPTIONS

P = PROTECTED STARTER FOR HPS UNITS ONLY

H = PHOTOCONTROL RECEPTACLE (REQUIRED)

T = BOTH NEMA TWIST-LOCK RECEPTACLE AND PROTECTED STARTER TOGETHER (HPS UNITS ONLY)

FCVRX - FULL DECORATIVE ALUMINUM TOP COVER (FOR X INSERT B, Z, N, G, OR A COLOR)

MCVRX - MAYFIELD ALUMINUM TOP COVER (COVERS 2/3) (FOR X INSERT B, Z, N, G, OR A COLOR)

ACCESSORIES

GV1ASDXX = INTERNAL SHIELD, XX = 90, 120 OR 180 DEGREES OF HOUSE SIDE CUT-OFF

GVBANDX = AN OPTIONAL DECORATIVE BAND KIT ADDED TO GLASS ASSEMBLY. FIELD INSTALLED (FOR X INSERT B, Z, N, OR A)

SPECIFICATIONS

GENERAL DESCRIPTION

THE UTILITY GRANVILLE IS DESIGNED FOR EASE OF MAINTENANCE WITH THE PLUG-IN ELECTRICAL MODULE COMMON TO EACH OF THE LUMINAIRES IN HOLOPHANE'S UTILITY LUMINAIRE SERIES. THE TRADITIONAL ACORN SHAPED LUMINAIRE, WHILE REMINISCENT OF THE 1920'S, CONTAINS A PRECISION OPTICAL SYSTEM THAT MAXIMIZES POST SPACINGS WHILE MAINTAINING UNIFORM ILLUMINATION.

OPTICAL SYSTEM

THE OPTICAL SYSTEM CONSISTS OF A PRECISELY MOLDED THERMAL RESISTANT BOROSILICATE GLASS REFRACTOR AND TOP REFLECTOR. THE GLASS TOP REFLECTOR REDIRECTS OVER 50% OF THE UPWARD LIGHT INTO THE CONTROLLING REFRACTOR WHILE ALLOWING A SOFT UPLIGHT COMPONENT TO DEFINE THE TRADITIONAL ACORN SHAPE OF THE LUMINAIRE. TWO DECORATIVE ALUMINUM COVERS ARE AVAILABLE. THE LOWER REFRACTOR USES PRECISELY MOLDED PRISMS TO MAXIMIZE POLE SPACINGS WHILE MAINTAINING UNIFORM ILLUMINANCE. THREE REFRACTORS ARE AVAILABLE, DESIGNED FOR I.E.S. TYPE II, III, AND V DISTRIBUTIONS. THE LUNAR OPTICS ASSEMBLY (IES CUTOFF) IS STANDARD. IT CONSISTS OF AN ALUMINUM PLATE AND ANODIZED, HYDROFORMED REFLECTOR DESIGNED TO RESTRICT INTENSITY AT THE CRITICAL ANGLE.

LUMINAIRE HOUSING

THE LUMINAIRE HOUSING, CAST OF ALUMINUM, PROVIDES AN ENCLOSURE FOR THE PLUG-IN ELECTRICAL MODULE. FOUR UNIQUELY DESIGNED STAINLESS STEEL SPRING CLIPS ENCLOSED IN A CLEAR POLYVINYL CHLORIDE SLEEVE AND ADJUSTED BY HEX HEAD 1/4-20 BOLTS SECURELY CRADLE THE PRISMATIC GLASS REFRACTOR. THE NICKEL PLATED LAMP GRIP SOCKET AND THREE STATION INCOMING LINE TERMINAL BLOCK ARE PREWIRED TO A FIVE CONDUCTOR RECEPTACLE FOR EASE IN CONNECTION THE ELECTRICAL MODULE. THE SLIPFITTER WILL ACCEPT A 3" BY 2-7/8" TO 3-1/8" O.D. TENON.

LUMINAIRE HOUSING / DOOR

CAST OF ALUMINUM, THE HOUSING / DOOR IS REMOVABLE WITHOUT THE USE OF TOOLS AND IS RETAINED BY A NONCONDUCTIVE LANYARD. FOR UNITS WITH AN E.E.I.-N.E.M.A. TWIST LOCK PHOTOCELL RECEPTACLE, THE DOOR CONTAINS AN ACRYLIC "WINDOW" TO ALLOW LIGHT TO REACH THE CELL.

ELECTRICAL MODULE

THE BALLAST COMPONENTS ARE MOUNTED ON A STEEL PLATE THAT IS REMOVABLE WITHOUT THE USE OF TOOLS. A MATCHING FIVE CONDUCTOR PLUG CONNECTS TO THE RECEPTACLE IN THE LUMINAIRE HOUSING TO COMPLETE THE WIRING. WHERE A STARTING AID IS REQUIRED, IT IS PROVIDED WITH A SEPARATE PLUG-IN CONNECTOR AND CAN BE REPLACED WITHOUT THE USE OF TOOLS. FOR PHOTOELECTRIC OPERATION, THE ELECTRICAL MODULE IS PROVIDED WITH AN E.E.I.-N.E.M.A. TWIST LOCK PHOTOCELL RECEPTACLE.

BALLASTS

(REFER TO BALLAST DATA SHEET FOR SPECIFIC OPERATION CHARACTERISTICS)



50 WATT 120 VOLT HIGH PRESSURE SODIUM (HPS) BALLASTS ARE HIGH POWER FACTOR REACTOR TYPE. ALL OTHER HPS BALLAST ARE HIGH POWER FACTOR AUTOTRANSFORMER TYPE.

FINISH

THE LUMINAIRE IS FINISHED WITH POLYESTER POWDER PAINT APPLIED AFTER A SEVEN STAGE PRETREATMENT PRECESS TO INSURE MAXIMUM DURABILITY.

UL LISTING

THE LUMINAIRE IS UL LISTED AS SUITABLE FOR WET LOCATIONS AT A MAXIMUM 40 DEGREES C AMBIENT TEMPERATURE.

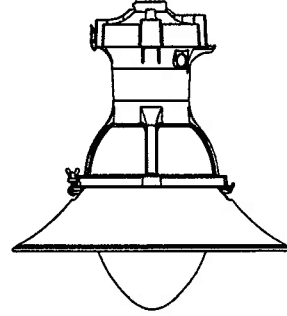
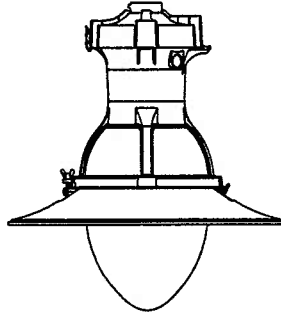
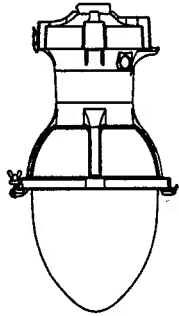
9/12/2005		NOT TO SCALE		CITY OF ELK GROVE - PUBLIC WORKS		APPROVED BY: <i>[Signature]</i> CITY ENGINEER	
REVISION	BY	APPROVED	DATE	STREET LIGHTS - ZONE 2 PEDESTRIAN AND LOCAL COLLECTOR ROADWAY STREET LIGHT FIXTURE		DRAWING NUMBER	
						ST - 15	
							
							

STANDARD

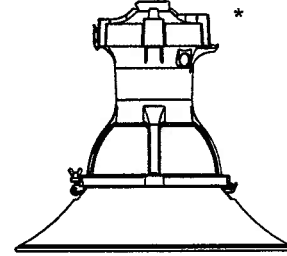
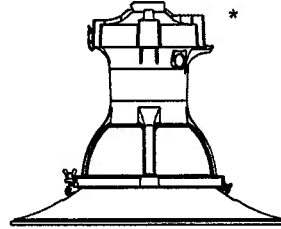
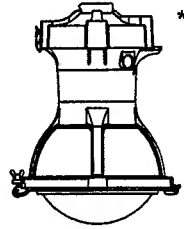
SHALLOW SKIRT*

DEEP SKIRT*

TEARDROP GLASS
ASYMMETRIC

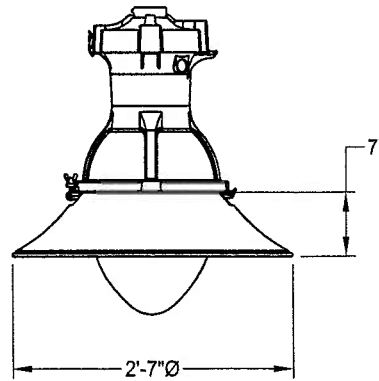
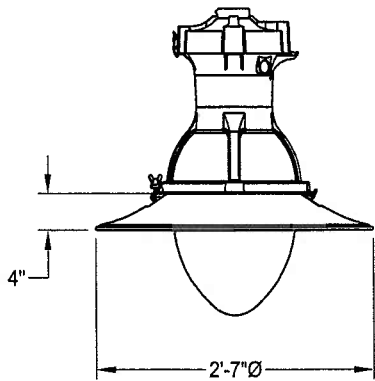


SAG GLASS
SYMMETRIC



*OPTIONAL UPON WRITTEN APPROVAL OF PLANNING DIRECTOR AND CITY ENGINEER

SKIRT DIMENSIONS (OPTIONAL)



9/13/2005		NOT TO SCALE	
REVISION	BY	APPROVED	DATE

CITY OF ELK GROVE - PUBLIC WORKS

**STREET LIGHTS - ZONE 2
FIXTURE OPTIONS**

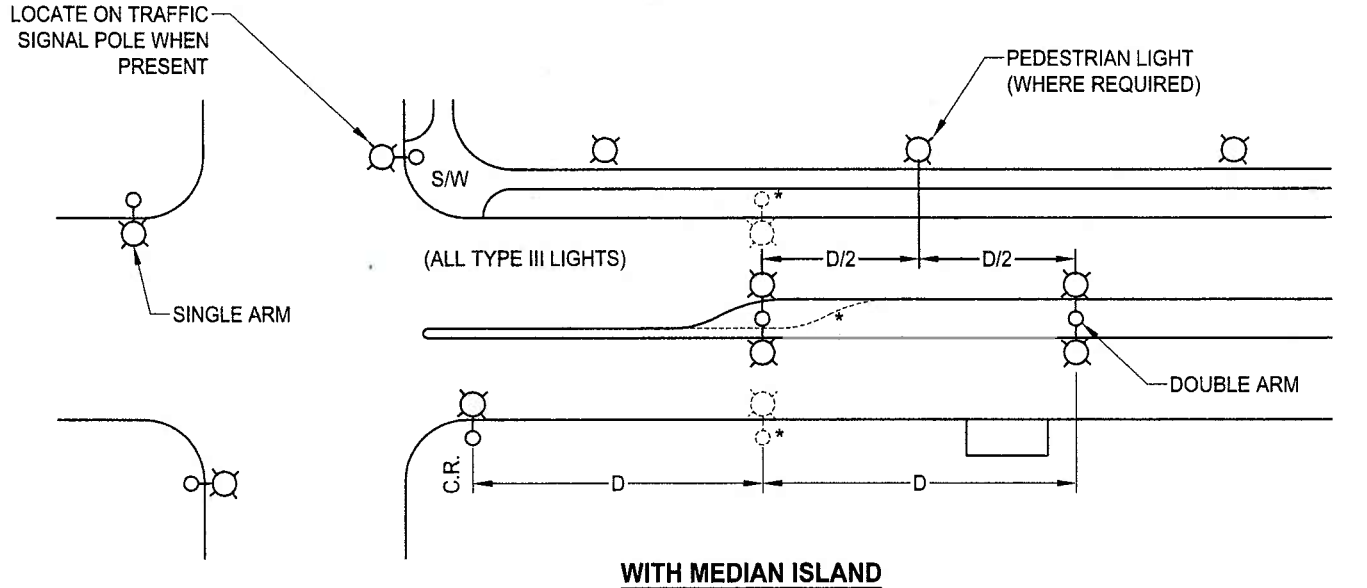
APPROVED BY:
Paul J. Lee
CITY ENGINEER



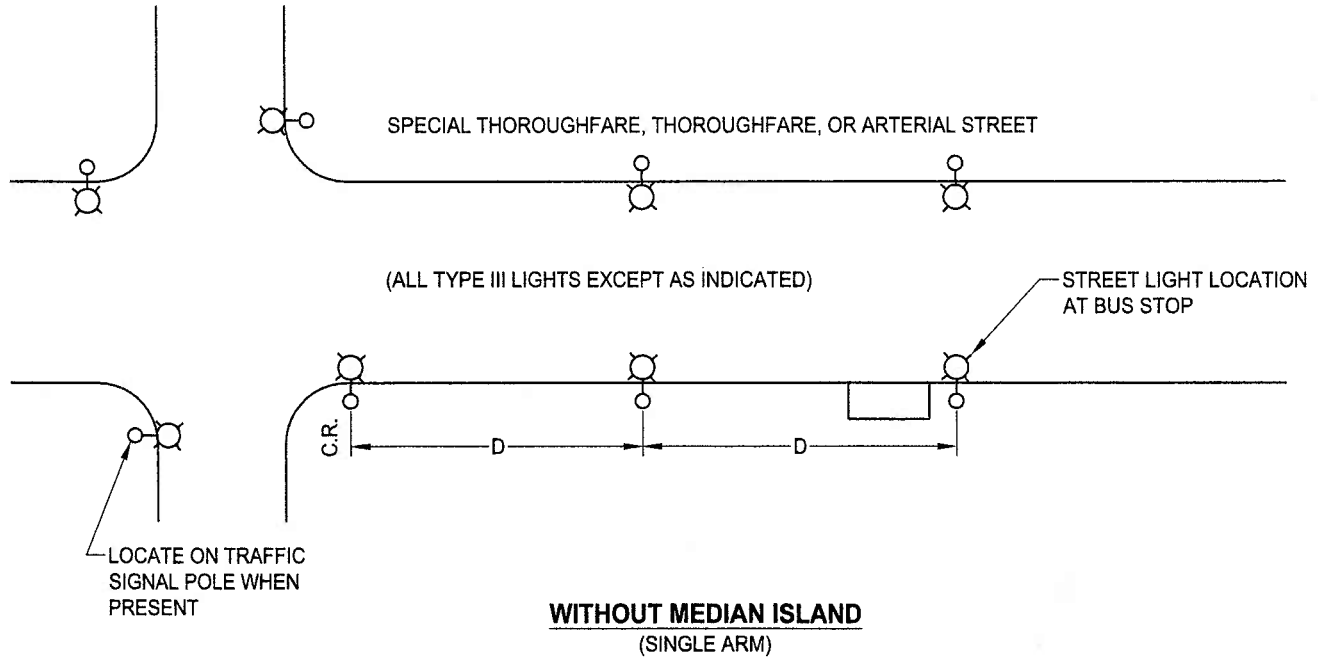
DRAWING NUMBER

ST - 16

STREET LIGHT PLACEMENT ON SPECIAL THOROUGHFARE, THOROUGHFARE, & ARTERIAL STREETS (INCLUDES COLLECTORS WITH MEDIAN)

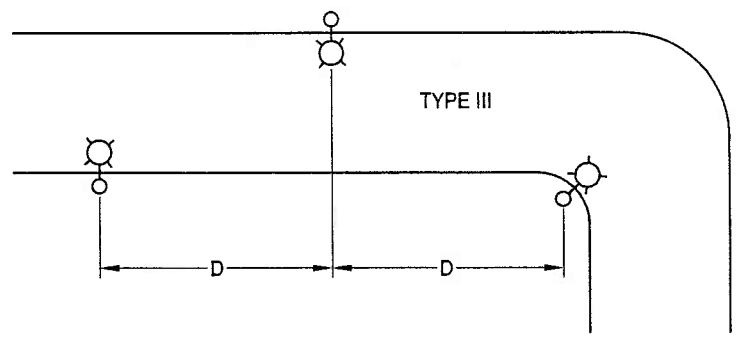
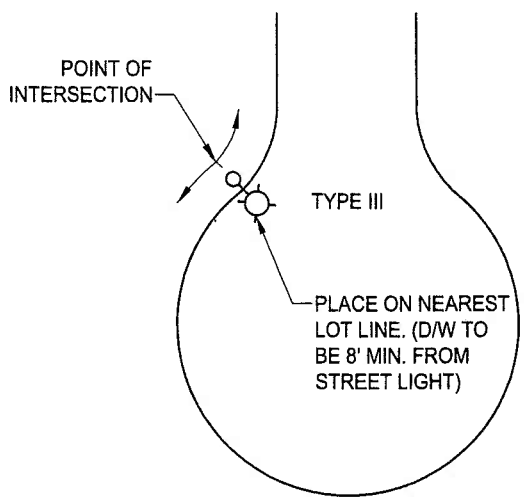
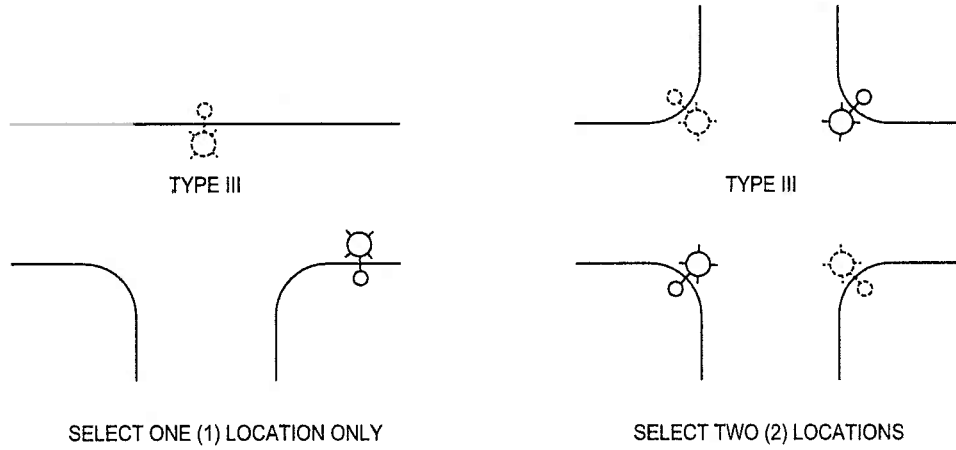


*SEE STANDARD DRAWING ST - 19 FOR DISTANCE "D"



09/13/2005		NOT TO SCALE		CITY OF ELK GROVE - PUBLIC WORKS		APPROVED BY: CITY ENGINEER		
REVISION	BY	APPROVED	DATE	STREET LIGHTS - ZONE 2 TYPICAL LOCATIONS THOROUGHFARES AND ARTERIALS (INCLUDES COLLECTORS WITH MEDIANS)				DRAWING NUMBER ST - 17

STREET LIGHT PLACEMENT ON MAJOR COLLECTOR, COLLECTOR (NO MEDIAN), & RESIDENTIAL STREETS



*SEE STANDARD DRAWING ST - 19 FOR DISTANCE "D"

9/13/2005		NOT TO SCALE		CITY OF ELK GROVE - PUBLIC WORKS		APPROVED BY: CITY ENGINEER	
REVISION	BY	APPROVED	DATE	STREET LIGHTS - ZONE 2 TYPICAL LOCATIONS COLLECTOR AND LOCAL RESIDENTIAL		DRAWING NUMBER ST - 18	

STREET CLASSIFICATION	NUMBER OF LANE	TYPE STREET LIGHT	STANDARD POLE HEIGHT	HIGH PRESSURE SODIUM LAMP WATTAGE	MEDIAN	NO MEDIAN (SINGLE ARM) (BOTH SIDES)
SPECIAL THOROUGHFARE	8	DUAL ARM	28'	250	160	160
THOROUGHFARE	6	DUAL ARM	28'	250	160	160
ARTERIAL	2 - 4	DUAL ARM	28'	250	180	180
SPACING (BOTH SIDES) (FEET)						
COLLECTOR	2, 3	SINGLE ARM**	28'	150	180	180
	2, 3	ACORN*	14'	150	150	150
	2	SINGLE ARM**	14'	100	80	80
	2	ACORN**	14'	100	80	80
LOCAL RESIDENTIAL	2	ACORN	14'	100	180	180
	2	SINGLE ARM	14'	100	180	180
PASEO, BIKE TRAILS, AND SEPARATED PEDESTRIAN PATHS	-	ACORN	14'	100	120	120
PEDESTRIAN PATHS ON 4 - 8 LANE STREETS	-	ACORN	14'	100'	160 - 180***	160 - 180***

1. LAMP WATTAGE SHOWN IS FOR HIGH PRESSURE SODIUM LAMP ONLY.

* BOTH SIDES OF STREET, NO ALTERNATING (2 PER LOCATION). NOT FOR USE ON STREETS LONGER THAN 800 FEET.

** SINGLE, ALTERNATING SPACING.

*** MATCH STREET SPACING. LOCATE HALFWAY BETWEEN STREET LIGHT LOCATIONS.

9/13/2005	NOT TO SCALE
REVISION BY	APPROVED DATE

CITY OF ELK GROVE - PUBLIC WORKS

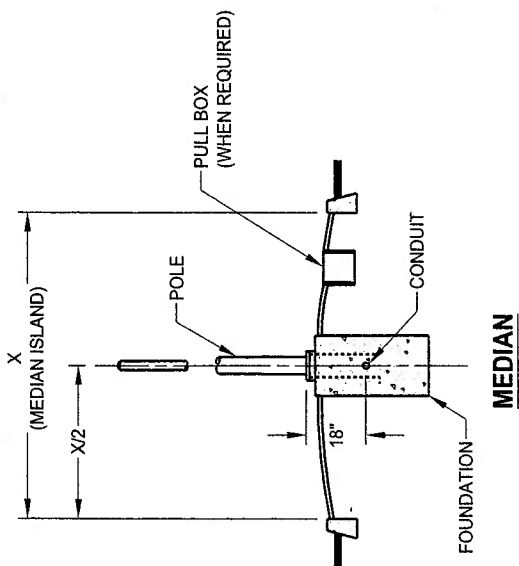
STREET LIGHTS - ZONE 2
POLE SPACING GUIDE

APPROVED BY:
[Signature]
CITY ENGINEER

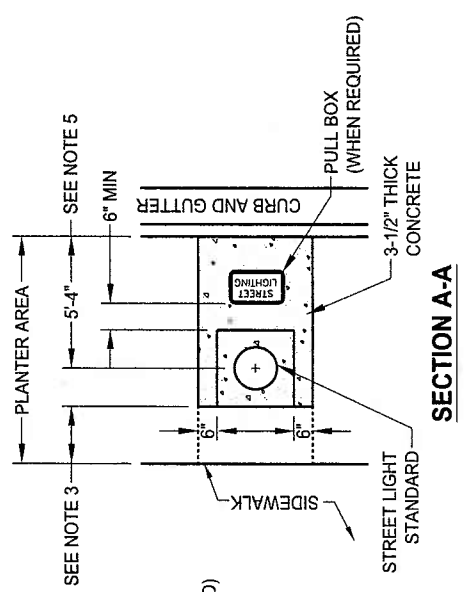


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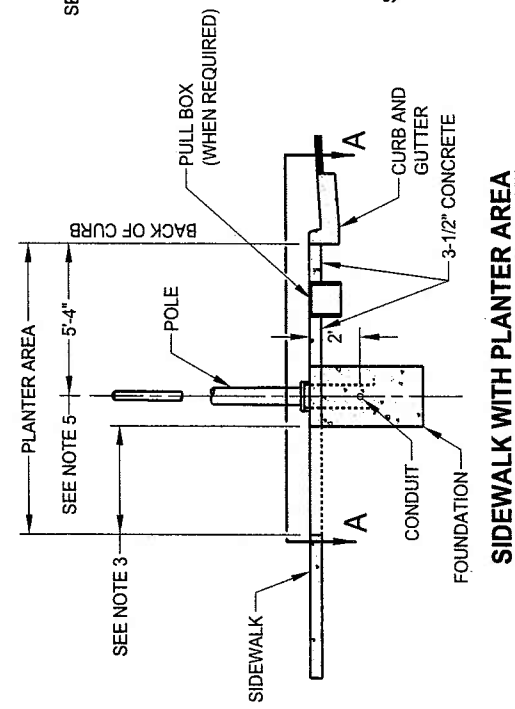
ST - 19



MEDIAN



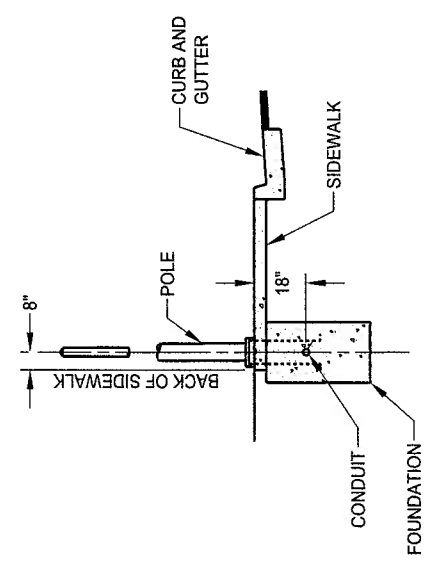
SECTION A-A



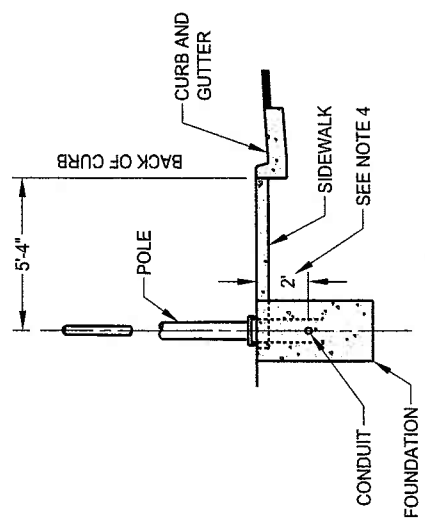
SIDEWALK WITH PLANTER AREA

NOTES

1. BACKFILL FOR CONDUIT TRENCH LOCATED UNDER CURB, GUTTER & SIDEWALK AND IN UNIMPROVED AREAS SHALL BE COMPACTED TO 90% RELATIVE COMPACTION. BACKFILL FOR CONDUIT TRENCH LOCATED IN PAVEMENT SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
2. LANDSCAPING IN THE AREA OF THE STREET LIGHT STANDARD TO MATCH BASE ELEVATION AND HAVE A MINIMUM OF 12" OF CLEARANCE FROM THE BASE.
3. IF THIS LENGTH IS 12" OR LESS, PLACE 3-1/2" THICK CONCRETE FROM STREET LIGHT BASE TO EDGE OF SIDEWALK. WIDTH TO MATCH CONCRETE AROUND STREET LIGHT FOUNDATION.
4. IF CONDUIT IS LOCATED BENEATH THE SIDEWALK, IT MAY BE PLACED AT 18" DEPTH INSTEAD OF 2".
5. IF THE PLANTER AREA IS LESS THAN 6' WIDE, THEN PLACE STREET LIGHT SO THAT THE BASE PLATE ALIGNS WITH THE EDGE OF SIDEWALK. TOP OF FOUNDATION TO MATCH SIDEWALK GRADE.



OVER 6' SIDEWALK



4' TO 6' SIDEWALK

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REVISION	BY	APPROVED	DATE	<p>STREET LIGHTS - ZONE 1 AND ZONE 2 BASE LOCATION FOR STREET LIGHT</p>	
APPROVED BY: <i>[Signature]</i> CITY ENGINEER				DRAWING NUMBER ST - 20	



