NOTES:

1. EXTERIOR SHALL BE 14 GAUGE 304 STAINLESS STEEL, INTERIOR SHALL BE 14 GAUGE STEEL, PAINTED WHITE. ENCLOSURE SHALL BE ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION SHALL BE NEMA 3R AND 12, RAIN TIGHT AND DUST TIGHT.
3. ALL NUTS, BOLTS, SCREWS AND HINGES SHALL BE STAINLESS STEEL.
4. NUTS, BOLTS, AND SCREWS SHALL NOT BE USED ON THE OUTSIDE OF THE SERVICE ENCLOSURE.
5. PHENOLIC NAMEPLATES SHALL BE USED TO IDENTIFY ALL OPERATION CONTROLS.
6. CONTROL WIRING SHALL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. SERVICE ENCLOSURE SHALL BE FACTORY WIRING AND CONFORM TO REQUIRED NEMA STANDARDS.
10. WIRING BETWEEN CIRCUIT BREAKERS AND CONTACTOR SHALL BE #8 THHN OR THWN MINIMUM.
11. SIZE OF TRANSFORMER FOR SIGNALS SHALL BE 5 KVA, SIZE OF TRANSFORMER FOR 120 V INTERSECTION SHALL BE 2 KVA.
12. WHEN CHANGING VOLTAGE ON A RETROFIT PROJECT WHERE A NEW SERVICE ENCLOSURE WITH A STEP-DOWN TRANSFORMER IS REQUIRED, THE NEW SERVICE ENCLOSURE THE NEW SERVICE ENCLOSURE SHALL BE PLACED BETWEEN THE SERVICE POINT AND THE OLD SERVICE ENCLOSURE LOCATION WITHIN THE CITY RW. VOLTAGE OUTPUT FROM THE NEW SERVICE ENCLOSURE MAY BE CONNECTED INTO THE EXISTING CONDUIT SYSTEM.
13. THE WIRING SCHEMATIC DIAGRAM AS SHOWN FOR A 2-WIRE STREET LIGHTING SYSTEM, IF THE SERVICE ENCLOSURE WILL BE USED FOR A 3-WIRE STREET LIGHTING SYSTEM, THEN THE LIGHTING BREAKERS SHALL CONSIST OF 2-POLE BREAKERS WITH INTERNAL COMMON TRIP, EACH POLE WITH INDIVIDUAL ON-OFF CONTROL, AND HANDLE TIE FOR COMMON OPERATION.
14. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

UNMETERED SERVICE ENCLOSURE (CAN) WITH STEP DOWN TRANSFORMER (277/480V TO 120/240V)

CITY OF ELK GROVE - PUBLIC WORKS

DATE: 01/17/2007
REVISION BY APPROVED DATE

NOT TO SCALE

UNMETERED SERVICE WIRING SCHEMATIC DIAGRAM

APPROVED BY:
CITY ENGINEER
DRAWING NUMBER
SL - 11

277/480 VAC 3 PHASE, 4 WIRE SERVICE

480 V 120/240 V

10 KVA TRANSFORMER

PROVIDE PRIMARY AND SECONDARY PROTECTION PER NEC

2 POLE 100 AMP BREAKER WITH INTERNAL COMMON TRIP, EACH POLE WITH INDIVIDUAL ON-OFF CONTROL, AND HANDLE TIE FOR COMMON OPERATION.

80A THREE POLE MERCURY DISPLACEMENT LIGHTING CONTACTORS

* BREAKER SIDE DETERMINED BY LOAD REQUIREMENTS (30 WATT MINIMUM)