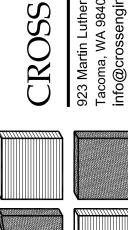
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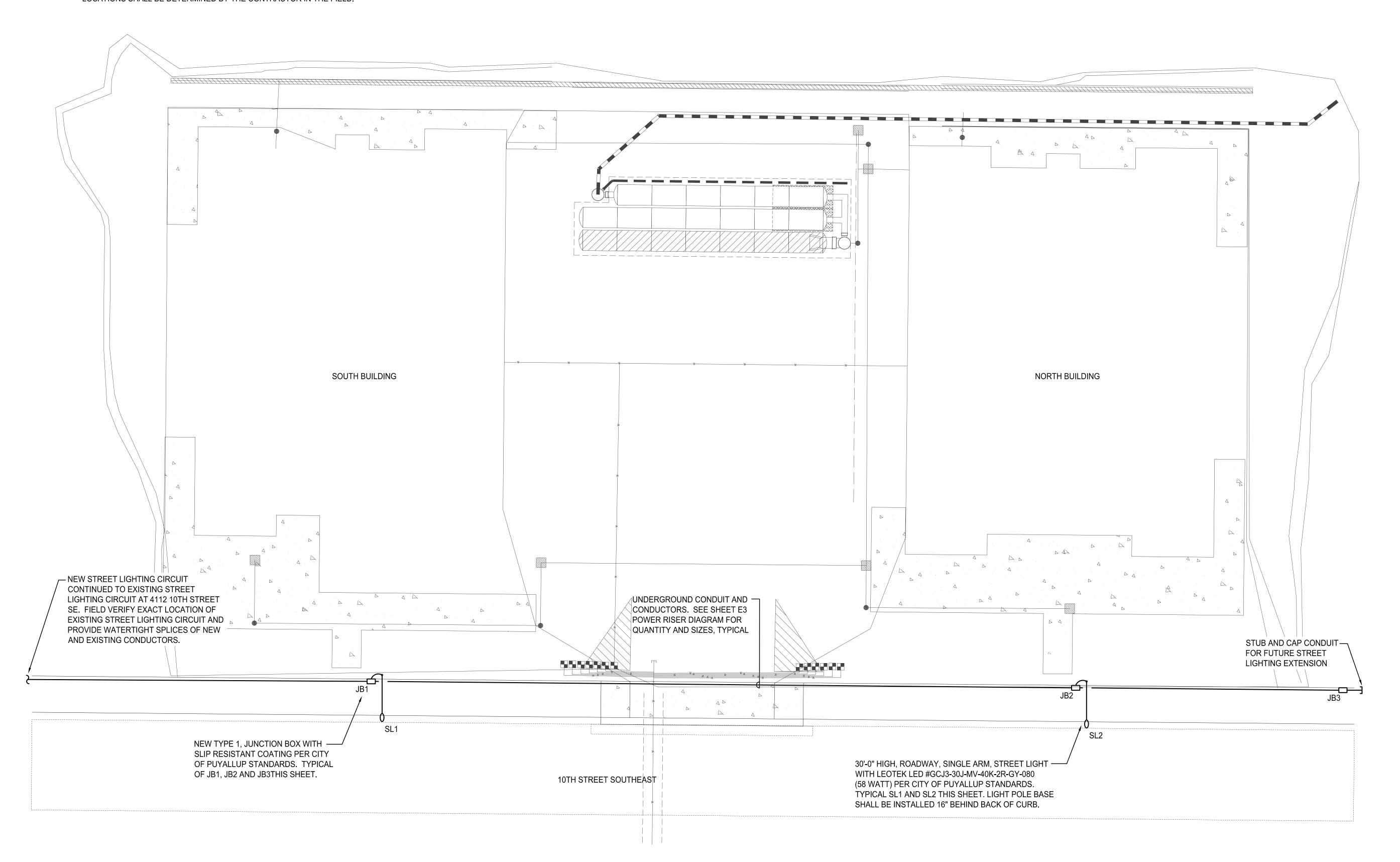
GINEERS,

LIGHTING

COOPERBE 4018 1 PUY,

REVISIONS:

AS NOTED 23-101



PHOTOMETRIC LIGHTING SUMMARY:

10TH STREET SOUTHEAST

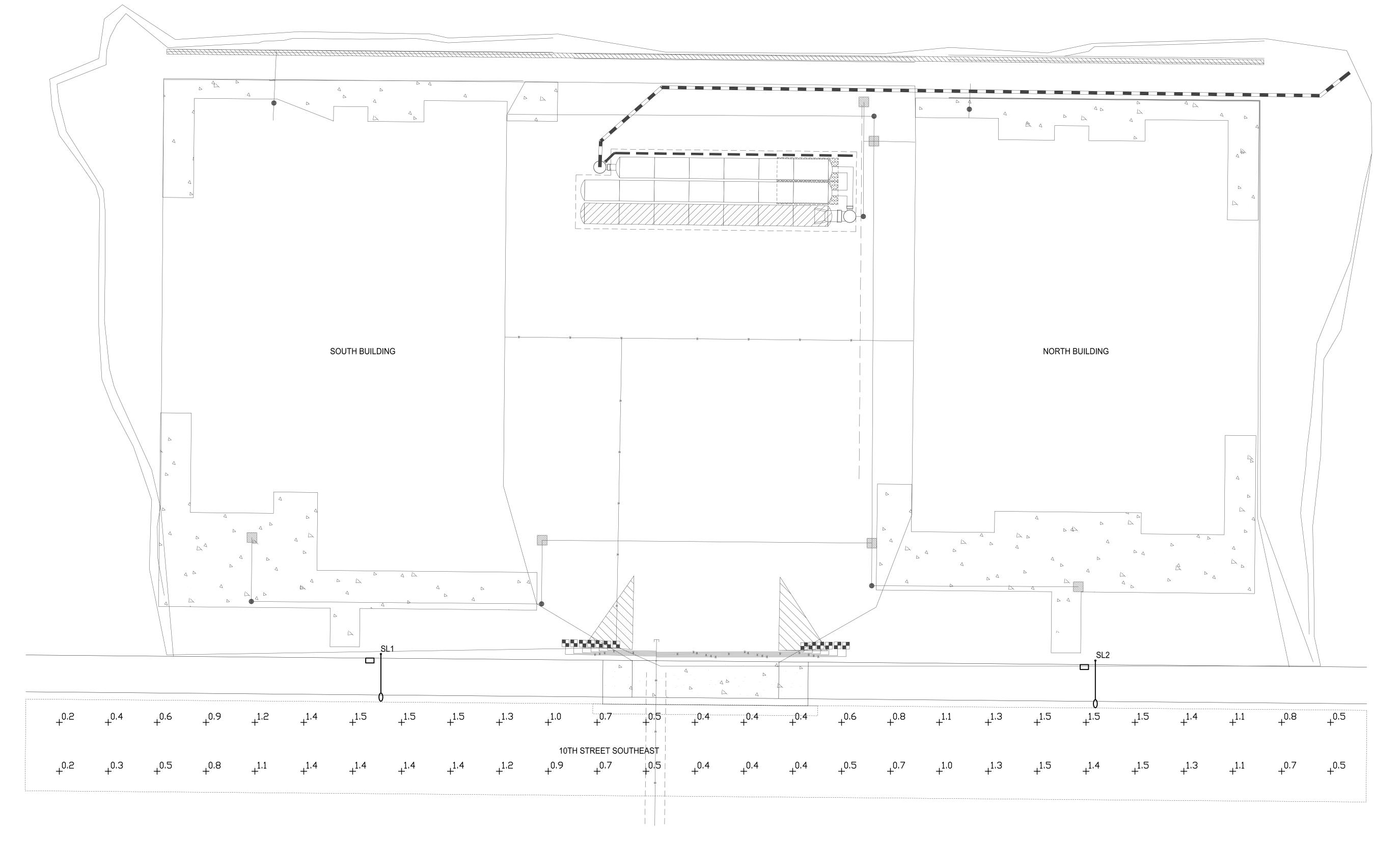
AVERAGE FOOTCANDLES = 0.9 FC

MAXIMUM FOOTCANDLES = 1.5 FC

MINIMUM FOOTCANDLES = 0.2 FC

MAX:MIN. = 7.5:1

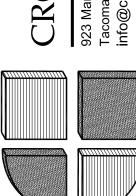
AVG.:MIN. = 4.5:1



STREET LIGHTING PHOTOMETRIC SITE PLAN
SCALE: 1"=10'-0"



CROSS ENGINEERS, INC



Y STREET LIGHTING I STREET EAST UP, WA 98374

REVISIONS:

LUMINAIRE#	STATION	LUMINAIRE TYPE	MOUNTING HEIGHT	BASE	MAST ARM LENGTH	CITY LUMINAIRE#	COMMENTS
SL1	-	LEOTEK LED #GCJ3-30J-MV-40K-2R-GY-080 (58 WATT)	30'-0"	FIXED	8'-0"	-	
SL2	-	LEOTEK LED #GCJ3-30J-MV-40K-2R-GY-080 (58 WATT)	30'-0"	FIXED	√ 8'-0"	-	
						-	
						-	
				12' E3	mast arm length sh		

— STUB AND CAP 10' PAST JUNCTION BOX #JB3 FOR FUTURE CONNECT TO EXISTING STREET — LIGHTING CIRCUIT AT 4112 10TH STREET SE STREET LIGHTING EXTENSION **STREET LIGHTING RISER DIAGRAM** NOT TO SCALE spare empty 2" conduit sheet E3

GENERAL NOTES:

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CONDUIT AND WIRE SCHEDULE:

2" PVC SCHEDULE 80 - (2)#8 CU & (1)#8 CU GRD (CONDUIT FILL = 4%)

1-1/2" PVC SCHEDULE 80 - (2)#8 CU & (1)#8 CU GRD (CONDUIT FILL = 4%)

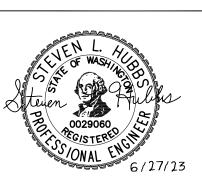
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2" PVC SCHEDULE 80 - EMPTY WITH PULLSTRING

COOPERBERRY (4018 10TH SPUYALLUF REVISIONS:

CROSS ENGINEERS, INC



STREET LIGHTING SPECIFICATIONS

30-FOOT STEEL STREETLIGHT STANDARD

DIMENSIONS

STREETLIGHT STANDARDS SHALL PROVIDE A FIXTURE MOUNTING HEIGHT OF 30'0" PLUS OR MINUS 6" WITH A TYPICAL 12 FOOT MAST ARM WITH A THREE FOOT OVERHANG.

BASE PLATE SHALL HAVE SLOTTED HOLES TO ACCOMMODATE 1-INCH ANCHOR BOLTS, AND 11 1/2" BOLT CIRCLE WITH MINIMUM CLEARANCE OF 1" BETWEEN BOLT AND POLE.

HANDHOLE CENTER SHALL BE LOCATED APPROXIMATELY 12 INCHES FROM THE BASE PLATE, ROTATED 270 DEGREES FROM MAST ARM SO AS THE HANDHOLE IS LOCATED ON THE SIDE OPPOSING ONCOMING TRAFFIC.

POLES SHALL MEET ALL STRENGTH REQUIREMENTS OF AASHTO FOR 90 MPH ISOTACH WHEN USED WITH A LUMINAIRE WEIGHING 48 POUNDS WITH A E.P.A. OF 1.1 SQUARE FEET. ALL ATTACHING BOLTS AND SCREWS THAT ARE NOT GALVANIZED SHALL BE STAINLESS STEEL.

THE POLES AND ALL HARDWARE SAHALL BE HOT DIPPED GALVANIZED, MINIMUM 3 MIL THICKNESS.

- d. MAST ARM ATTACHMENT SHALL BE SECURED BY 3 BOLTS.
- e. EACH POLE SHALL HAVE HANDHOLE (WITH COVER), GROUND LUG AND REMOVABLE POLE CAP.
- f. EACH CITY POLE SHALL HAVE A BLACK 4" TO 6" LETTER C STENCILED ON ROADWAY SIDE OF POLE 16" ABOVE GRADE.

- a. POLES SHALL BE ANCHORED WITH 4 BOLTS, 1"X36"X4" #8UNC WITH HOT DIPPED GALVANIZING AFTER THREADS ARE CUT. GALVANIZED AREA SHALL EXTEND FROM THREADED END FOR A MINIMUM OF 12 INCHES. BOLTS SHALL BE PROVIDED WITH 2 GALVANIZED NUTS AND FLAT WASHERS FOR LEVELING. SHIMS WILL NOT BE USED.
- b. A NON-SHRINKING GROUT SHALL BE INSTALLED WITH ONE 1/2" DRAIN HOLE UNDER THE BASE PLATE AFTER THE ENGINEER HAS APPROVED THE POLE INSTALLATION.

CONDUIT

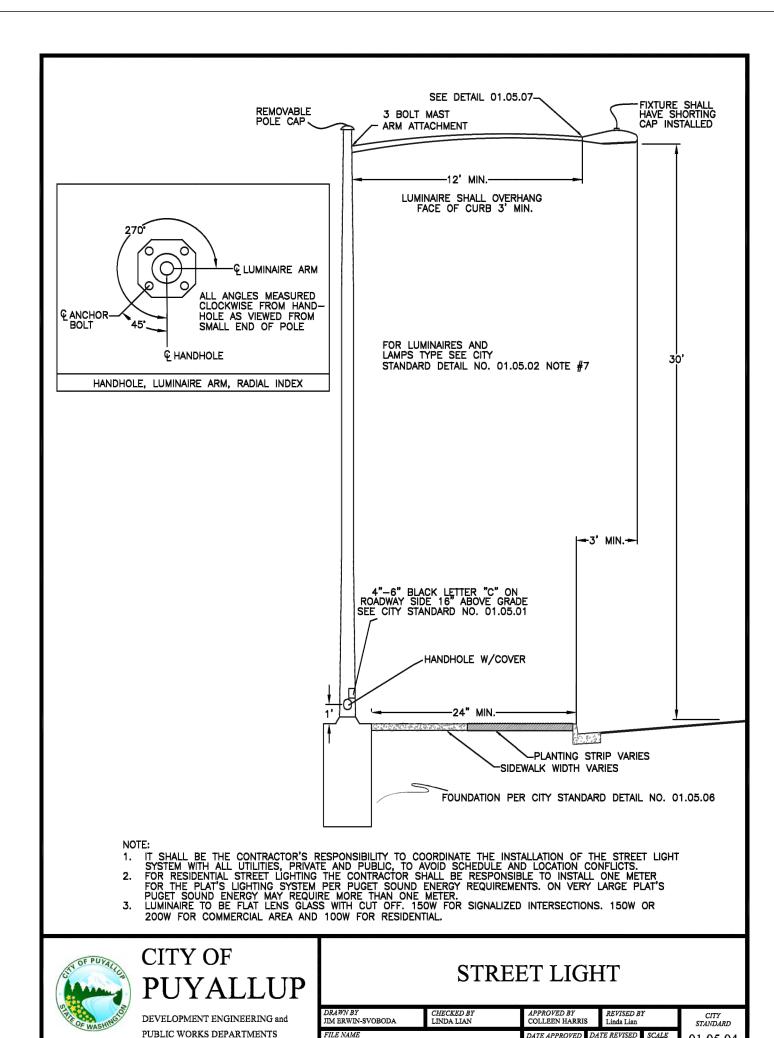
ALL CONDUIT SHALL BE BURIED A MINIMUM OF 24 INCHES DEEP. ALL ROADWAY CROSSINGS SHALL BE RIGID METALLIC OR SCHEDULE 80 PVC. CONDUIT SHALL CONFORM TO SECTION 9-29 OF WSDOT STANDARD SPECIFICATIONS. SCHEDULE 80 PVC MAY BE USED IN LOCATIONS OTHER THAN ROADWAY CROSSINGS.



STREET LIGHT **SPECIFICATIONS**

PUBLIC WORKS DEPARTMENTS

01.05.01



(STR LIGHT SPECS CONTINUED)

4. JUNCTION BOXES (WHEN REQUIRED) JUNCTION BOXES SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLANS. THEY WILL CONFORM TO WSDOT STANDARD PLAN J-40.10-02, TYPE 1. THEY SHALL BE LEVEL WITH THE SIDEWALK GRADE AND FIRMLY BEDDED TO PREVENT FUTURE SETTLING. JUNCTION BOXES ARE PREFERRED NOT TO BE INSTALLED IN THE SIDEWALK. THE COVER SHALL BE GALVANIZED AND GROUNDED. THE LETTERS "LT" SHALL BE ETCHED ON THE COVER. (SEE CITY STANDARD DETAIL NO. 01.06.01). IF THE JUNCTION BOX IS NOT IN THE SIDEWALK THEN IT SHALL HAVE A CONCRETE COLLAR. IF THE JUNCTION BOX IS IN THE SIDEWALK THEN IT SHALL HAVE A NON-SLIP SURFACE TREATMENT. SEE CITY STANDARD DETAIL NO. 01.06.01.

CONDUCTORS, WIRES, ETC. WIRE CONDUCTORS FOR UNDERGROUND FEEDER RUNS AND FOR CIRCUITRY FROM THE IN-LINE FUSE IN THE POLES TO THE JUNCTION BOX SHALL BE 600 VOLT, SINGLE CONDUCTOR STRANDED COPPER AND INSULATED WITH USE GRADE POLYVINYL CHLORIDE COMPOUND (XLP) OR APPROVED EQUAL IN ACCORDANCE WITH THE INSULATED POWER CABLE ENGINEER'S ASSOCIATION SPECIFICATIONS. AN AWG NO. 8 GREEN INSULATED STRANDED COPPER WIRE WILL BE RUN TO THE SERVICE GROUND LUG ON EACH POLE. FEEDERS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. WIRES INSIDE THE POLE BETWEEN BALLAST AND IN-LINE FUSES SHALL BE ROME 2C AWG 10 STRANDED POLE AND BRACKET WIRE OR APPROVED EQUAL. SPLICES WILL BE ALLOWED IN JUNCTION BOXES AND POLE BASES ONLY. NO MORE THAN 2 CONDUITS WILL BE ALLOWED INSIDE THE STREET POLE.

LUMINARE FUSING AND ELECTRICAL CONNECTIONS AT LIGHT STANDARD BASES SHALL CONFORM TO SECTION 9-29.7 OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS AND AS SHOWN ON THE UNIFORM LUMINARE WIRING DETAIL IN THE APPENDIX. IN-LINE FUSE HOLDERS SHALL BE SEC MODEL 1791-SF WITH FNM-5 FUSES OR APPROVED EQUAL. (REFER TO CITY STANDARD DETAIL NO. 01.06.01)

LUMINAIRES AND LAMPS RESIDENTIAL STREETS AND NEIGHBORHOOD COLLECTORS:

ARTERIALS AND COMMERCIAL COLLECTORS:

LEOTEK LED GC1-40E-MV-NW-2-530 (67 WATT LED)

GE EVOLVE LED ERS2-E-0-HX-EX-5-40 (130 WATT LED)

AND REPAIR COSTS DUE TO VANDALISM, THEFT, OR CONSTRUCTION.

THE CITY WILL ENERGIZE THE STREET LIGHTS WHEN A HOME IS OCCUPIED ADJACENT TO A STREET LIGHT OR IMMEDIATELY ACROSS THE STREET. AT THE DEVELOPER'S REQUEST, STREET LIGHTS MAY BE ENERGIZED PRIOR TO OCCUPANCY OF HOMES. HOWEVER, THE

DEVELOPER OR BUILDER SHALL ASSUME FULL RESPONSIBILITY FOR ELECTRICAL POWER COSTS

SAFE WIRING LABELS

THE CONTRACTOR IS ADVISED THAT SAFE WIRING LABELS REQUIRED BY LABOR AND INDUSTRIES SHALL APPLY ON THIS PROJECT. (ELECTRICAL INSPECTION STICKER)

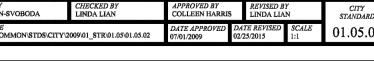
THE CONTRACTOR SHALL SURRENDER TO THE CITY OF PUYALLUP ANY GUARANTEE OR WARRANTY ACQUIRED BY HIM AS A NORMAL TRADE PRACTICE IN CONNECTION WITH THE PURCHASE OF ANY MATERIALS OR ITEMS USED IN THE CONSTRUCTION OF THE ILLUMINATION.

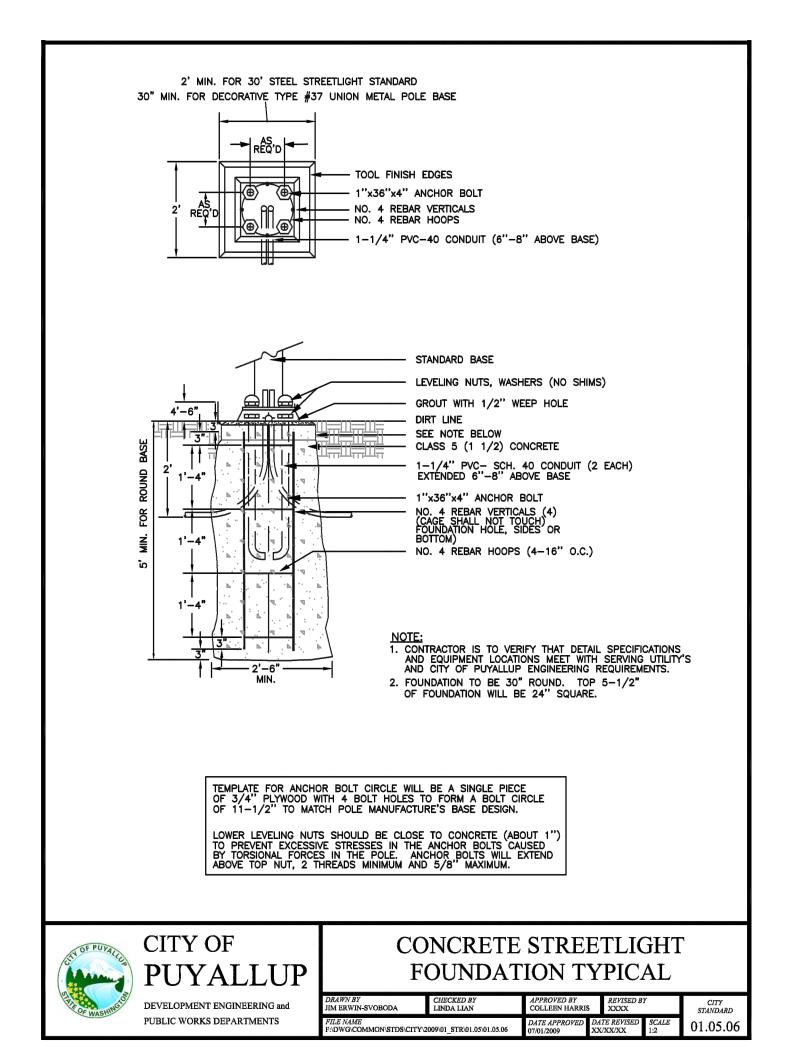
LOCATION

SEE CITY STANDARD SECTION 01.01 ROADWAY DESIGN.



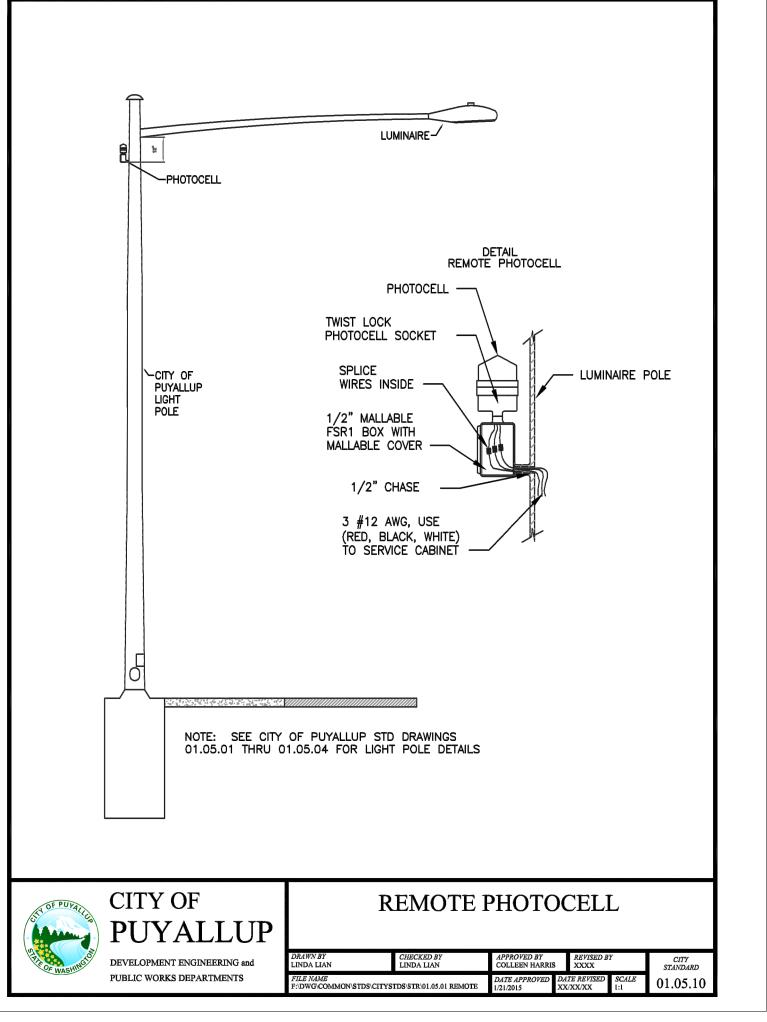
STREET LIGHT SPECIFICATIONS (CONT.)

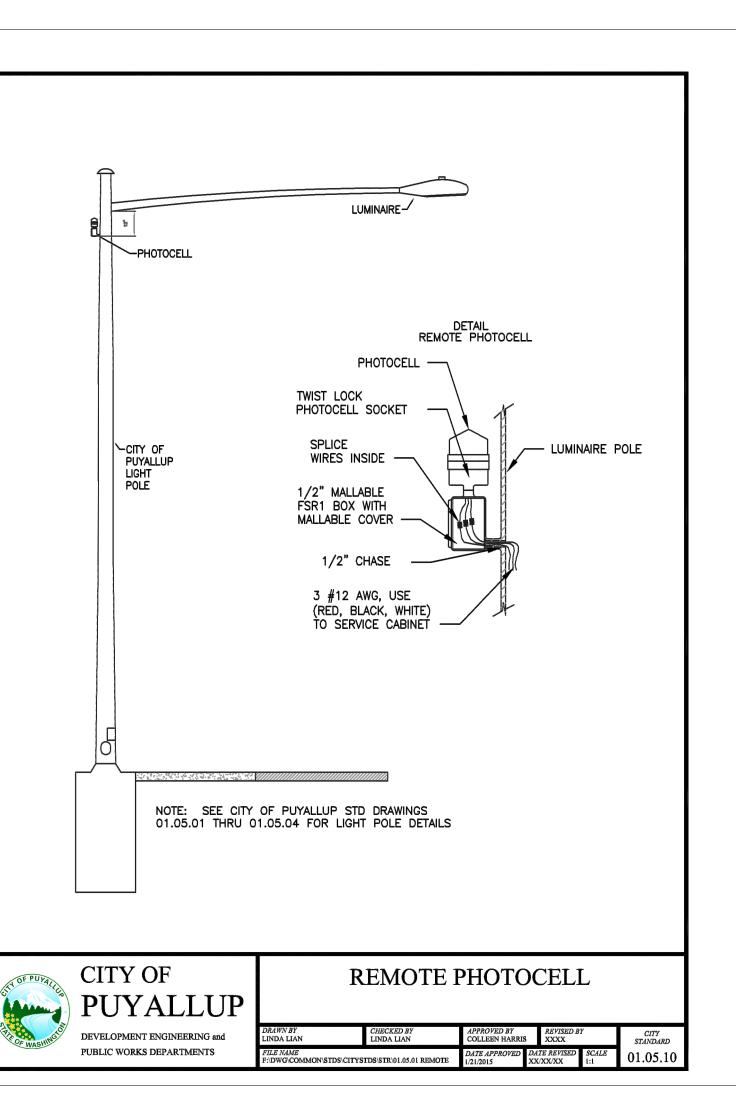




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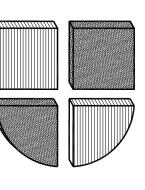
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NEERS, EZ **CROSS**

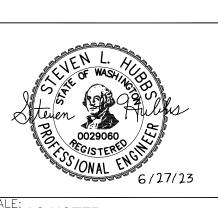
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REVISIONS:



AS NOTED