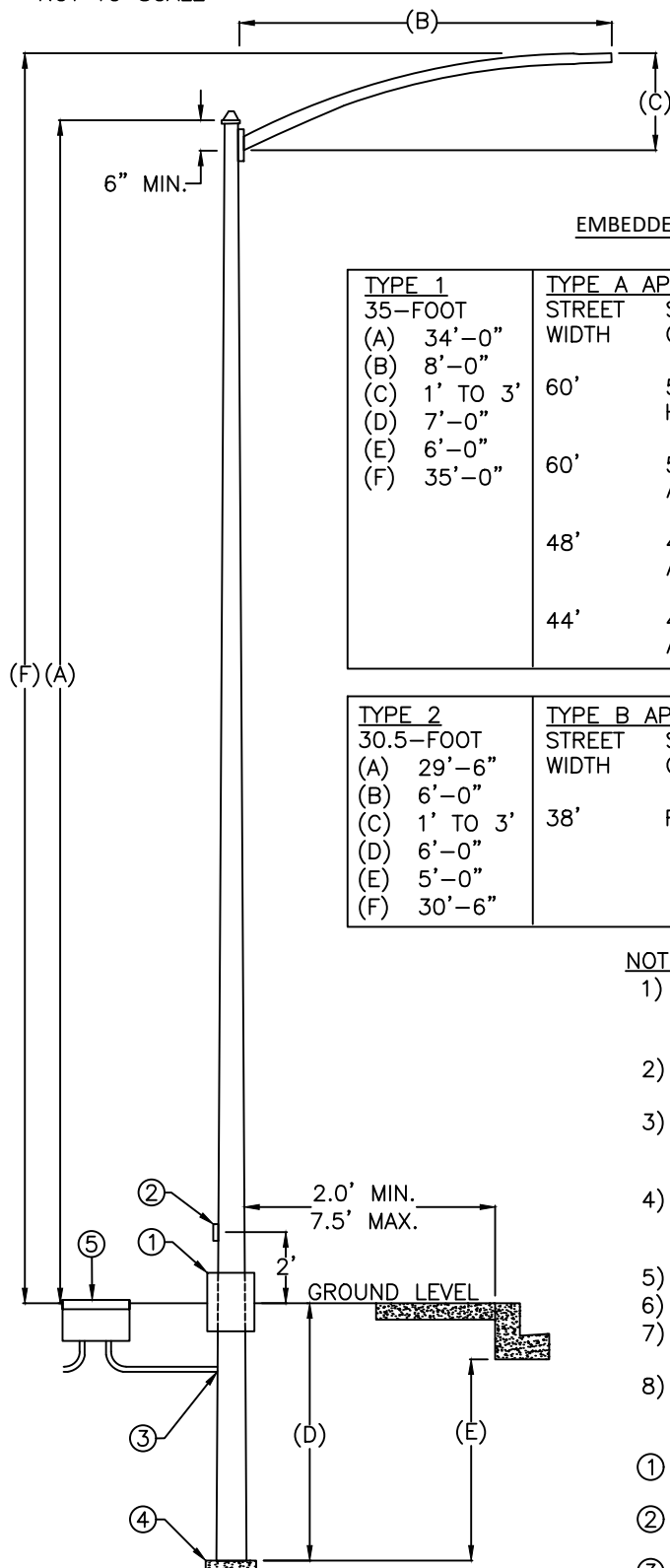


NOT TO SCALE



# EMBEDDED STREET LIGHT STANDARD REQUIREMENTS

TYPE 1	TYPE A APPLICATIONS:				
35-FOOT	STREET WIDTH	STREET CLASSIFICATION	LED WATTAGE	INITIAL LUMENS	MAX POLE SPACING
(A) 34'-0"					
(B) 8'-0"					
(C) 1' TO 3'	60'	5 LANE ARTERIAL HIGH DENSITY COMM.	100	13,583	125'
(D) 7'-0"					
(E) 6'-0"	60'	5 LANE MAJOR ARTERIAL	100	13,583	150'
(F) 35'-0"					
	48'	4 LANE MAJOR ARTERIAL	70	9,612	150'
	44'	4 LANE MINOR ARTERIAL	70	9,612	150'

TYPE 2	TYPE B APPLICATIONS:				
30.5-FOOT	STREET WIDTH	STREET CLASSIFICATION	LED WATTAGE	INITIAL LUMENS	MAX POLE SPACING
(A) 29'-6"					
(B) 6'-0"					
(C) 1' TO 3'	38'	RESIDENTIAL	40	4,979	300'
(D) 6'-0"					
(E) 5'-0"					
(F) 30'-6"					

## NOTES:

- POLE SHAFT - HOT ROLLED COMMERCIAL GRADE CARBON STEEL WITH 55,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER - 0.14" PER FOOT.
- THE LUMINAIRE ARM AND POLE CONNECTION PLATES SHALL CONFORM TO ASTM A36.
- CAST IRON POLE TOP CAP - ASTM DESIGNATION: A48 CLASS 30 - SECURED IN PLACE WITH MINIMUM 3 SET PLATED SCREWS.
- ARM SHAFTS - 2-3/8" OUTSIDE DIAMETER AND 0.121" MINIMUM WALL THICKNESS AND 36,000 P.S.I. MINIMUM YIELD STRENGTH.
- POLE AND ARM GALVANIZED TO ASTM A153.
- ACCESSORIES GALVANIZED TO ASTM A153.
- ALL THREADED FASTENERS TO BE GALVANIZED UNLESS OTHERWISE NOTED.
- WIRE SPLICES - 600V MIN. RATING, UL LISTED, CSA CERTIFIED, DESIGNED FOR DIRECT BURIAL APPLICATION. BURNDY, WSDOT SPECIFICATION, OR APPROVED EQUIVALENT.
- ① = 7 GAUGE, 1'-0" LENGTH, EXTERNAL GROUND SLEEVE.
- ② = HANDHOLE WITH 1/4" TO 1/2" NUT HOLDER FOR GROUNDING.
- ③ = 1-5/8" x 9-5/8" OVAL WIRING ACCESS HOLE.
- ④ = INSTALL POLE ON 12" x 12" x 3" CONCRETE BLOCK, OR BEARING PLATE WELDED TO BOTTOM OF POLE.
- ⑤ = QUAZITE 1324CA0017P JUNCTION BOX.

L-2.DWG



## STREET LIGHT POLE AND MAST ARM

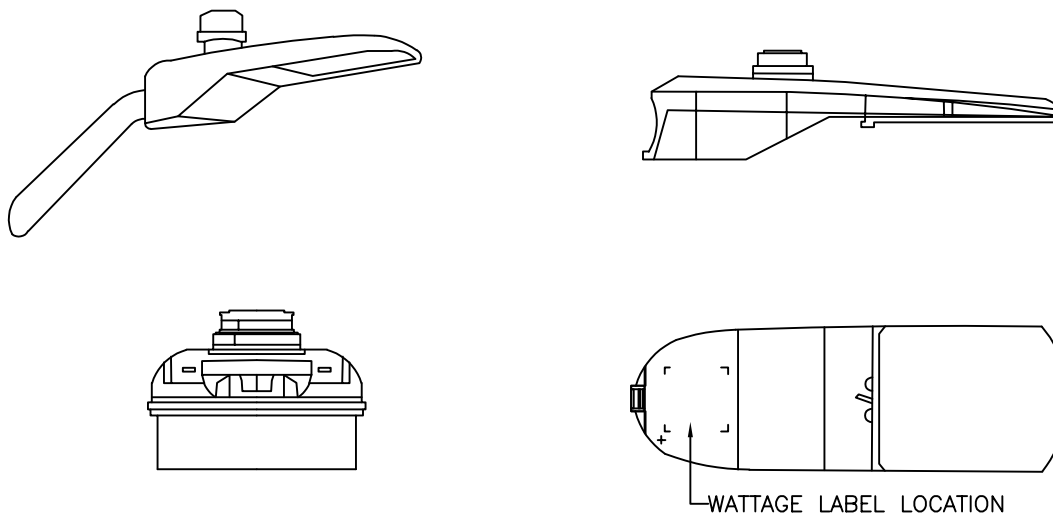
DWN.  
N. RUMMEL  
APP.

DATE: 7/00  
UPDATED: 10/24

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L-2

## CREE LIGHTING, – LIGHT EMITTING DIODE (LED)

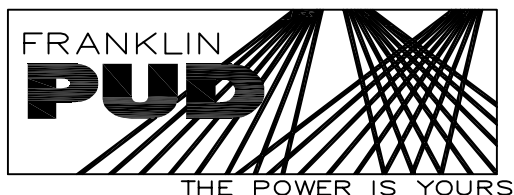
NOTES:

1. LUMINAIRE SHALL BE COBRA-HEAD CONFIGURATION MEETING I.E.S. TYPE II (LONG) LIGHT DISTRIBUTION PATTERN.
2. LUMINAIRE SHALL BE CAPABLE OF USING 120 – 277 VOLT, 60 HZ POWER SOURCE.
3. POWER VOLTAGE TO LUMINAIRE SHALL BE VERIFIED WITH FRANKLIN COUNTY PUD NO.1 PRIOR TO ORDERING LUMINAIRE.
4. PHOTOELECTRIC CONTROL FOR LUMINAIRES SHALL BE LONG LIFE, PLUG-IN TYPE HERMETICALLY SEALED UNIT CAPABLE OF OPERATING BETWEEN A MAXIMUM OF 1.8 AND 7.5 FOOT CANDLES. THE PHOTOELECTRIC CONTROL SHALL BE A MULTI-VOLTAGE UNIT COMPERABLE TO RIPLEY #6390L – BIC OR SUN TECH #TRS-2-FO. THE LIGHT SENSING ELEMENT SHALL BE ORIENTED TO THE NORTH SKY.
5. SEE FRANKLIN COUNTY PUD DRAWING L-2 FOR POLE AND MAST ARM REQUIREMENTS.
6. LUMINAIRE SHALL BE MANUFACTURED BY CREE.

<u>SIZE</u>	<u>MANUFACTURER</u>	<u>MODEL/TYPE</u>
110W	CREE	GWYL-A-20L-40K7-2M-UL-GY-Q8
70W	CREE	GWYM-A-13L-40K7-2M-UL-GY-Q7
40W	CREE	GWYS-A- 6L-40K7-2M-UL-GY-Q8

→ CONTROLS  
 → FINISH  
 → VOLTAGE  
 → OPTIC  
 → CCT  
 → LUMEN PACKAGE  
 → VERSION  
 → PRODUCT

L-3.3.DWG



## LUMINAIRE - LIGHT EMITTING DIODE (L.E.D.)

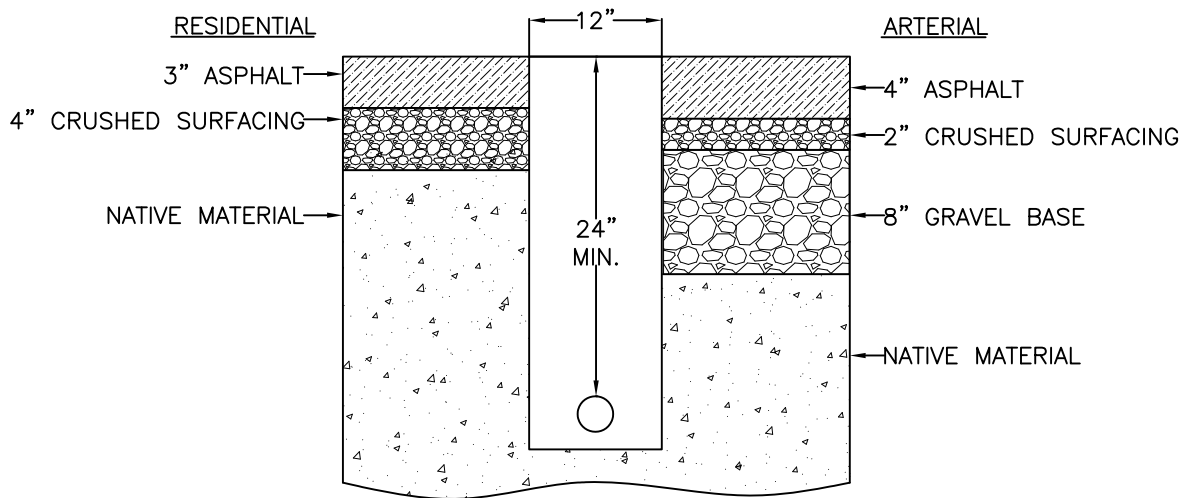
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NAME  
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DATE: 5/08  
UPDATED: 12/24

DWG. NO.

L-3.3

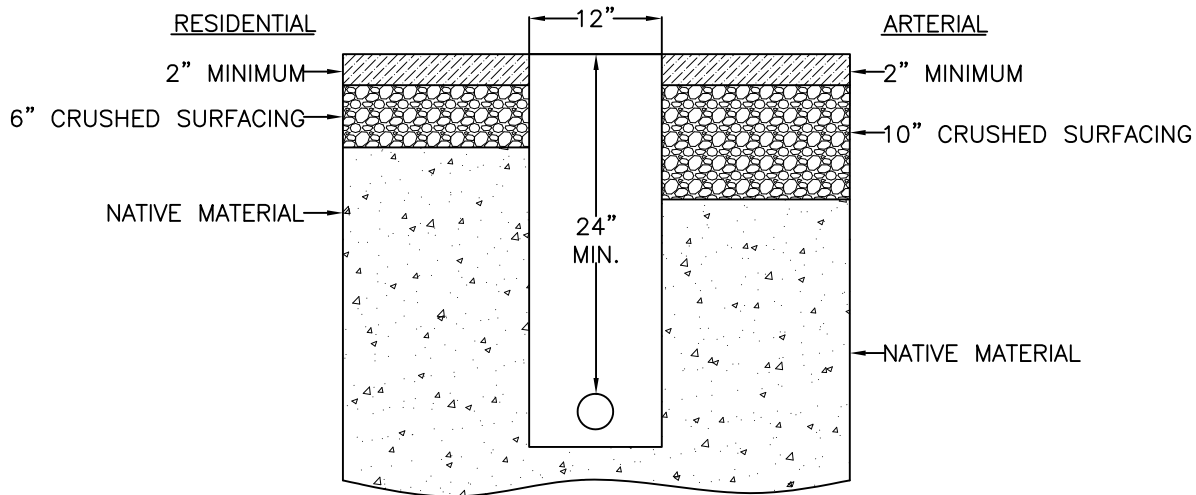
## HOT MIX ASPHALT RESTORATION



**NOTES:**

1. PRIOR TO EXCAVATION, PERMITTING AND ROAD SPECIFIC REQUIREMENTS SHALL BE OBTAINED FROM THE OWNER OF THE ROADWAY.
2. 1.25" MINIMUM, GRAY, SCHEDULE 40 CONDUIT SHALL BE USED FOR STREET LIGHTING CIRCUITS.

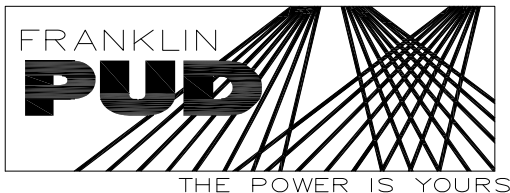
## BITUMINOUS SURFACE RESTORATION



**NOTES:**

1. PRIOR TO EXCAVATION, PERMITTING AND ROAD SPECIFIC REQUIREMENTS SHALL BE OBTAINED FROM THE OWNER OF THE ROADWAY.
2. 1.25" MINIMUM, GRAY, SCHEDULE 40 CONDUIT SHALL BE USED FOR STREET LIGHTING CIRCUITS.

L-5.DWG



### TRENCH REQUIREMENTS - IN STREET STREET LIGHTS

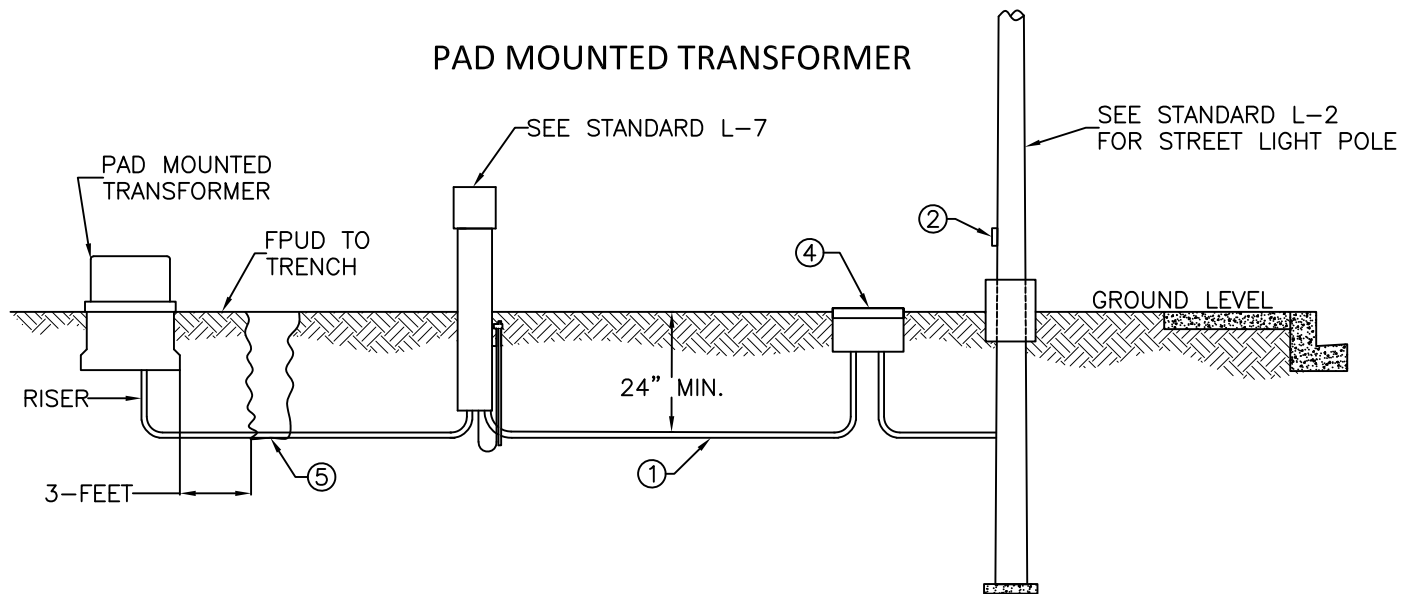
DWN.  
N. RUMMEL  
APP.

DATE: 7/6/00  
UPDATED: 1/2020

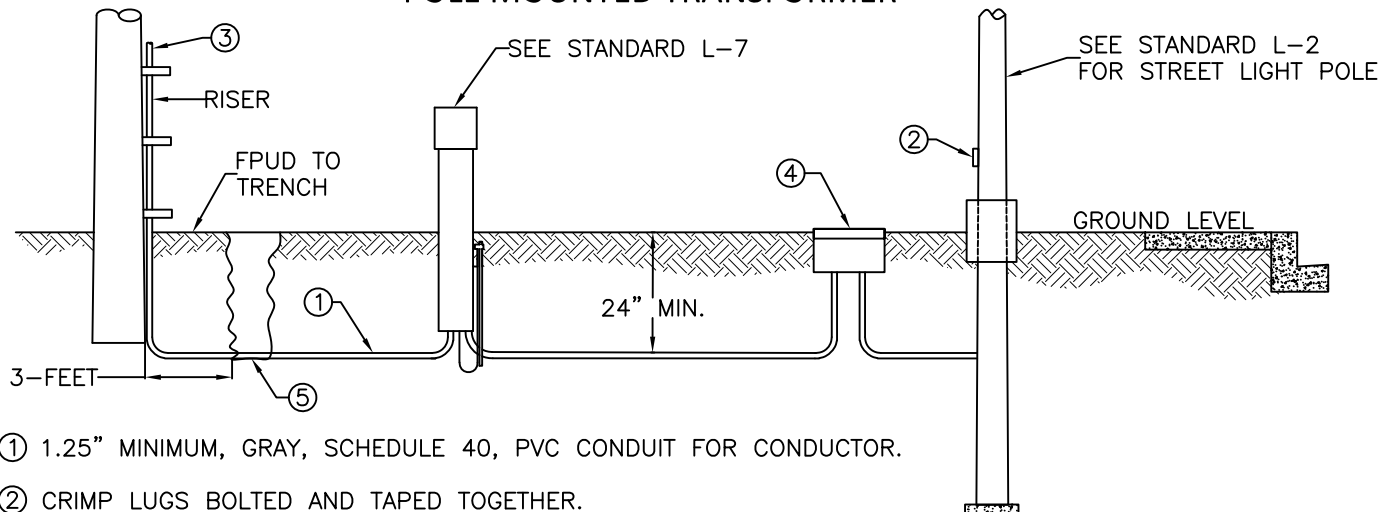
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**L-5**

## PAD MOUNTED TRANSFORMER



## POLE MOUNTED TRANSFORMER

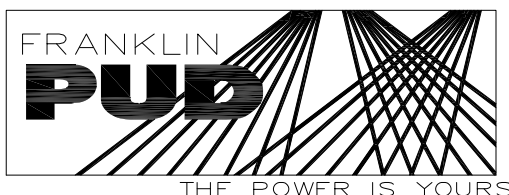


- ① 1.25" MINIMUM, GRAY, SCHEDULE 40, PVC CONDUIT FOR CONDUCTOR.
- ② CRIMP LUGS BOLTED AND TAPED TOGETHER.
- ③ CONTRACTOR TO STOP TRENCH AND CONDUIT 3-FOOT FROM ELECTRICAL SOURCE STRUCTURE. CONTRACTOR TO SUPPLY ALL MATERIAL NEEDED TO STAND FIRST PIECE OF PIPE ON POLE. COORDINATE WITH FRANKLIN PUD TO INSTALL RISER.
- ④ QUAZITE 1324CA0017 IN NON-TRAFFIC APPLICATIONS, WSDOT TYPE I OR TYPE II FOR INCIDENTAL TRAFFIC AREAS, OR EQUIVALENT APPROVED BY FRANKLIN PUD ENGINEER.
- ⑤ CUSTOMER PROVIDES ALL MATERIAL TO ELECTRICAL SOURCE INCLUDING RISER. CUSTOMER TO COORDINATE WITH FRANKLIN PUD FOR TRENCHING 3-FOOT TO SOURCE STRUCTURE.

### NOTES:

1. AN IN-LINE, FUSED, WATERTIGHT ELECTRICAL DISCONNECT KIT SHALL BE INSTALLED IN THE JUNCTION BOX FOR EVERY CONDUCTOR ABOVE GROUND POTENTIAL.
2. ADDITIONAL CONDUCTOR LENGTH SHALL BE PROVIDED IN ALL JUNCTION BOXES EQUAL TO A LOOP HAVING A DIAMETER OF ONE FOOT.
3. CONTRACTOR SHALL PLACE 4-INCHES OF 5/8" MINUS CRUSHED ROCK IN BOTTOM OF JUNCTION BOX AFTER INSTALLING CONDUIT AND WIRING.
4. THE CONTRACTOR SHALL BE REQUIRED TO SECURE, AT HIS OWN EXPENSE, ALL INSPECTION PERMITS AND REQUIREMENTS FROM THE WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRIES, CITY OF PASCO, AND FRANKLIN COUNTY ROAD DEPARTMENT PRIOR TO INSTALLING LIGHTING SYSTEM.
5. ALL LIGHTING SYSTEMS SHALL BE APPROVED BY THE FRANKLIN PUD PRIOR TO INSTALLATION.

L-6.DWG



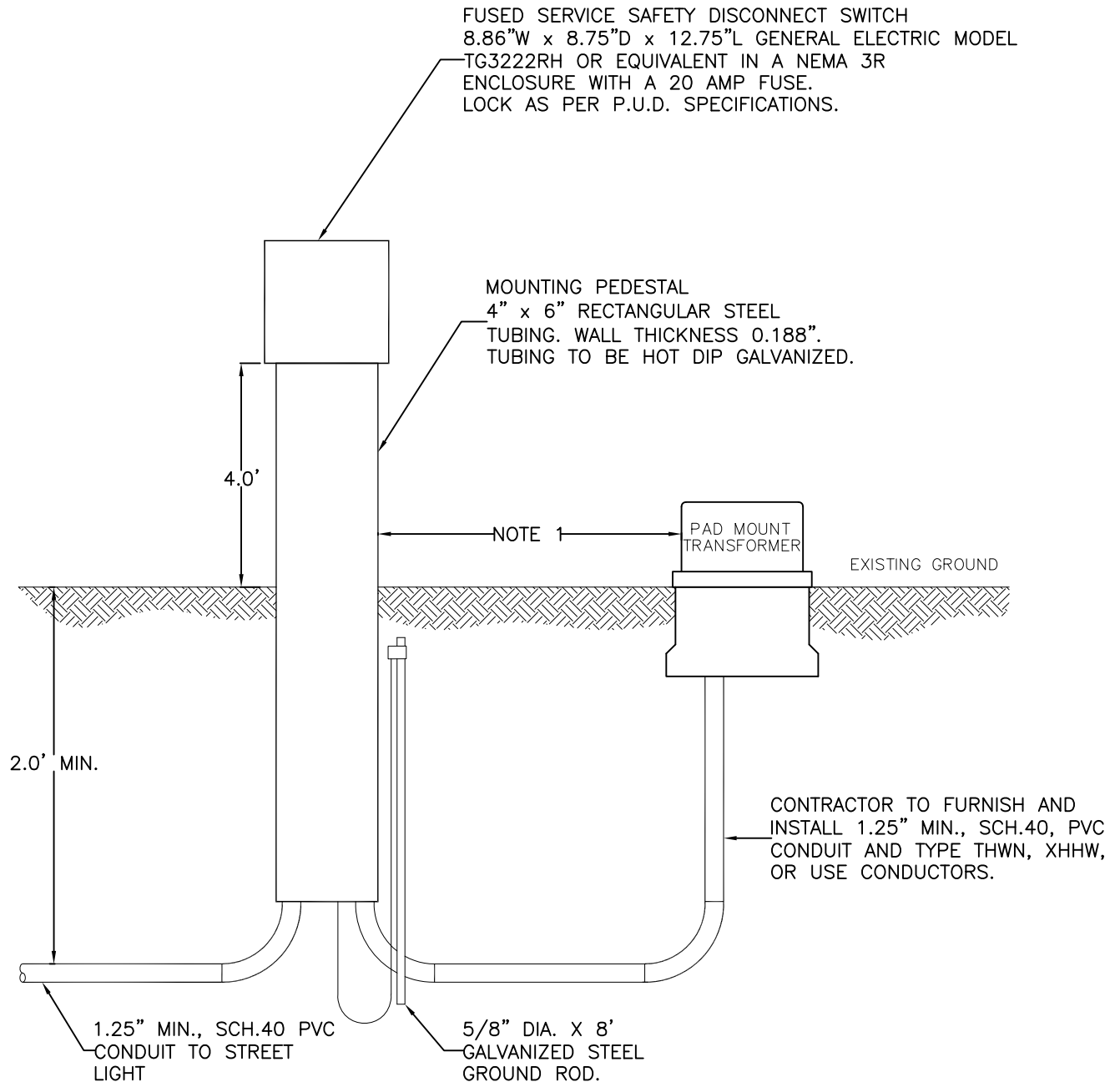
## STREET LIGHT SERVICE GENERAL ARRANGEMENT

DWN.  
N. RUMMEL  
APP.

DATE: 7/21/00  
UPDATED: 1/2020

DWG. NO.

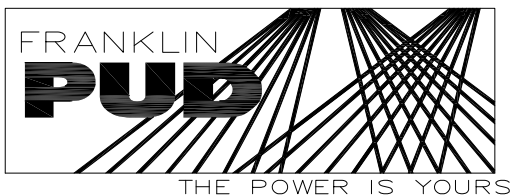
L-6



**NOTES:**

1. 8' MIN. FROM FRONT OF TRANSFORMER.  
5' MIN. FROM SIDE OF TRANSFORMER.  
2' MIN FROM BACK OF TRANSFORMER.  
10' MIN. FROM POWER POLE.

L-7.DWG



**STREET LIGHT SERVICE  
DISCONNECT**

DWN.  
N. RUMMEL  
APP.

DATE: 7/21/00  
UPDATED: 1/2020

DWG. NO.

**L-7**