









- 1. Luminaire supports shall be designed in accordance with AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.
- The design wind velocity shall be 100 mph unless shown otherwise on the plans or in the special provisions for the project. 2.
- Bolts shall conform to ASTM specification A307. Steel sheet and plate shall be merchant quality. 3.
- 4. All structural steel including washers and nuts shall be hot dip galvanized after fabrication unless noted otherwise.
- Wind rods required for arms over 4'. 5.
- 6 Comply with utility standards, including clearance requirements to communications and primary, for luminaire arms mounted on wood utility poles.
- 7. If other utilities are on pole, gualified worker shall perform the work and must follow NESC clearance rules.
- At District discretion, the luminaire arm may be bonded to utility service neutral instead of installing new ground rod and wire. 8. Provide enough bare copper wire to reach utility service neutral and coil on pole. Utility will make the connection.



Length of Pole (feet)	Depth in Soil (feet)	Depth in Rock (feet)
25	5.0	3.5
30	5.5	3.5
35	5.5	4.0
40	6.0	4.0
45	6.5	4.5
50	7.0	5.0
55	7.5	5.0
60	8.0	5.5

NOTES

- 1. Where soil is underlain with rock, the depth of the hole in the rock is to be 70% of the depth required in soil.
- 2. Where poles are located on other than level areas,
- measure the setting depth from the low side of the hole.



TYPICAL WOOD POLE INSTALLATION DETAILS No Scale

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Prot	fess	io	10

Note: Aerial cable may be attached here if overhead clearance from primary is adequate



- Through eye bolt w/ double nuts, washers, and curved washers, set at secondary grade. Set tension

Install inline fused disconnect. 5 Amp slow blow fuse within 6" of

(Alternative method to be used if additional clearance is required from primary: Aerial cable may be attached w/ eye bolts and spliced near luminaire arm)

ion and use of this Drawing, while In accordance with accepted engineering and practices, is the Insibility of the user Insulting a Registered	NOTE: All material and workmanship shall be in accordance with the current Multnomah County Standard Specifications		
	MID-MULTNOMAH COUNTY STREET LIGHTING SERVICE DISTRICT NO. 14		
	DETAIL - 1402 TYPICAL WOODEN POLE INSTALLATION		
ur Engineer.	DATE REVISION DESCRIPTION		





See manufacturer's specifications for more information

- NOTE:
- 1. Basket bracket from PGE Approved Street Lighting Equipment for New Installations List. A different product may be substituted upon approval by District staff.

FLOWER-BASKET	BRACKET	DETAIL
NO SCALE		

1. If light pole is installed within curb tight sidewalk, maintain minimum 5' wide pedestrian through zone behind light pole. Pedestrian through zone may be reduced to 4' in very constrained areas upon approval by District staff.

DECORATIVE POST TOP POLE - DETAIL

Lighting Zone	Functional	Pole Length	Luminaire		
Lighting Zone	Class		Luminaire Type	Manufacturer/Model	
	Arterial	16'	Neighborhood Post Top	Holophane / Utility Washington	
Neighborhood Decorative	Collector	16'	Neighborhood Post Top	Holophane / Utility Washington	
	Local	14'	Neighborhood Post Top	Holophane / Utility Washington	
Troutdale Town Center	Collector	16'	Troutdale Halsey Post Top	King / Cleveland	
	Local	14' or 16'	Troutdale Halsey Local Post Top	King / Cleveland	
Fairview Halsey	Arterial	16'	Fairview Halsey Post Top	King / Sol-Lux	
Portland Urban Pocket	Local	14'	Neighborhood Post Top	Holophane / Utility Washington	



1. Banner arm from PGE Approved Street Lighting Equipment for New Installations List. A different product may be substituted upon approval by District staff.







GENERAL NOTES:

- 1. Troutdale Historic Downtown poles and luminaires to be installed only within the Downtown Troutdale NE Halsey Street and Historic Columbia River Highway corridor upon direction from District Staff.
- 2. See Detail 1440 for GFI outlet wiring and grounding details.
- 3. See Detail 1410 for footing Details.
- 4. If light pole is installed within curb tight sidewalk, maintain minimum 5' wide pedestrian through zone behind light pole. Pedestrian through zone may be reduced to 4' in very constrained areas upon approval by District staff.





Standard Foundations Table					
Foundation Number	Pole	Mounting Height	Mast Arm Length	Footing Type	
1	Decorative Post Top	14' to 16'	N/A	5–LB	
2	Aluminum Davit	35'-0"	8'-0"	7LB–PGE	
3	Troutdale Historic Downtown	11' or 12'	N/A	5' CIP or 24R—LB	







POLE-MOUNTED SERVICE CABINET GALVANIZED POLE MOUNTING OPTION SCALE: No Scale



- Cabinet shall include only one circuit breaker for a single lighting circuit, or shall include a main circuit breaker with two branch circuit breakers.
- 2. A photocell shall be installed on each luminaire connected to a Pole Mounted Service Cabinet. Limit illumination circuits to a maximum of 10 amps.

POLE-MOUNTED SERVICE CABINET SCALE: No Scale

- SCALE: No Scale

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5. If possible, install service cabinet on property line.

STREET LIGHT ELECTRICAL SERVICE PEDESTAL

	NOTE: All material and workmanship shall be in accordance with the current Multnomah County Standard Specifications		
ion and use of this Drawing, while n accordance with	MID-MULTNOMAH COUNTY STREET LIGHTING SERVICE DISTRICT NO. 14		
accepted engineering and practices, is the nsibility of the user d not be used	DETAIL - 1420 ELECTRICAL SERVICE PEDESTAL		
nsulting a Registered al Engineer.	2020		
	DATE REVISION DESCRIPTION		





(Approx. 7 $ft.^3$ concrete in neat section)

NOTE:

1. Install concrete apron on all junction boxes installed in unpaved areas.

CONCRETE APRON AROUND JUNCTION BOX



- 1. Conduits shown are for example only. Additional conduits may be required as shown on the plan sheets.
- 2. For conduit end treatment refer to ODOT Standard Specifications for Construction Latest Edition (see section 00960.42) and Oregon Standard Drawing Latest Edition (TM472).
- 3. In junction boxes where there are existing wires and conduits, the contractor shall adjust them as necessary to maintain the system when work is complete.
- 4. Junction boxes and covers shall be rated tier 15 according to ANSI/SCTE 77-2007.
- 5. Junction boxes shall be installed behind the sidewalk or in the planter strip when possible.
- 6. Refer to the PGE-Approved Street Lighting Equipment for New Installations materials list for approved manufacturers and part numbers.
- 7. Junction box dimensions shall be 13"x24"x18" or 17"x30"x18".



JUNCTION BOX INSTALLATION WITH APRON No scale (NEAR ILLUMINATION POLE)



Standard designed in generally o principles sole respo and should without co Profession

- 2. Illumination circuits shall be spliced according to section 02920.25

	NOTE:	All material and workmanship shall be in accordance with the current Multnomah County Standard Specifications	
The selection and use of this Standard Drawing, while designed in accordance with		Multnomah County MID-MULTNOMAH COUNTY STREET LIGHTING SERVICE DISTRICT NO. 14	
generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used	DETAIL - 1430 JUNCTION BOX DETAILS		
without consulting a Registered Professional Engineer.	2020		
	DATE	REVISION DESCRIPTION	





<u>SCHEMATIC</u> –	LUMINAIRE	LIGHT	POLE	WIRING
NO SCALE				

SCHEMATIC - LIGHT POLE WITH GFCI OUTLET WIRING NO SCALE

