

---

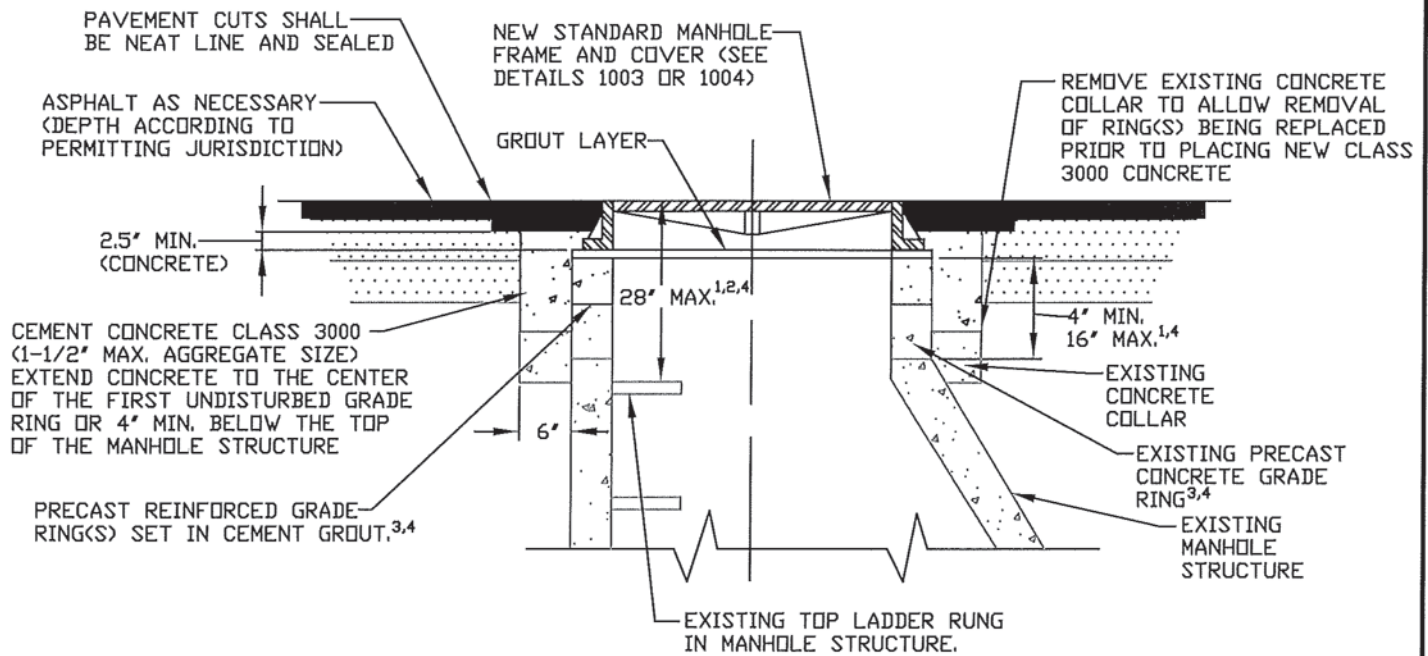
---

# **Appendix B**

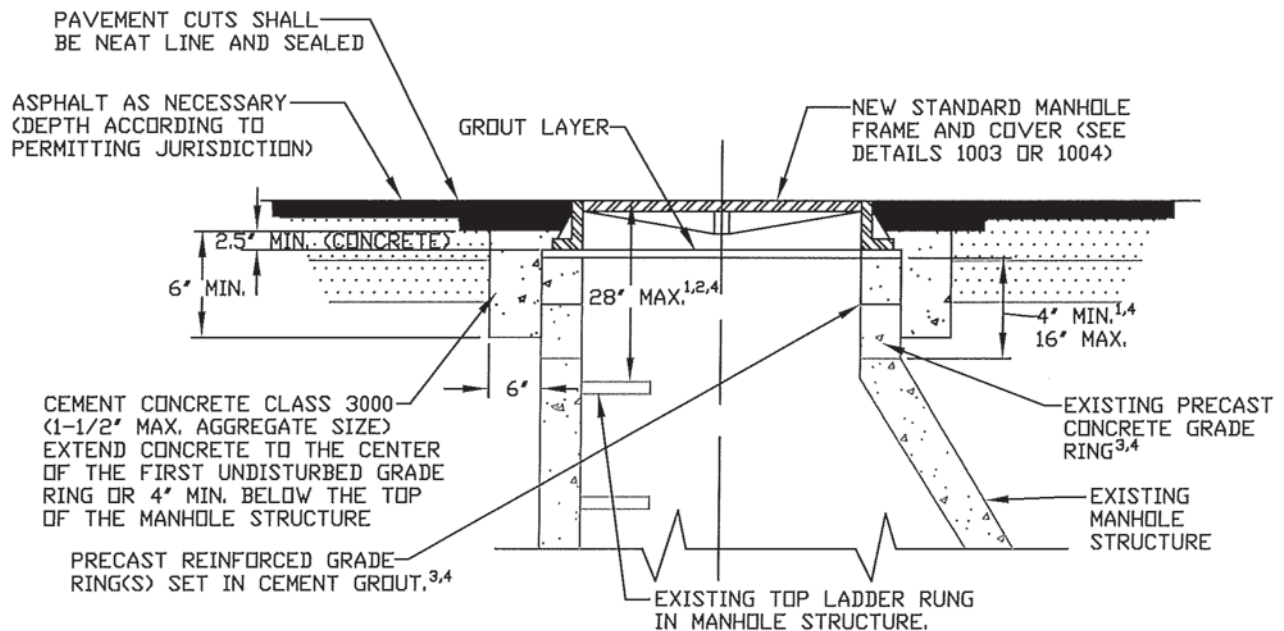
# **Standard Plans**

---

---



### WITH EXISTING CONCRETE COLLAR



### NO EXISTING CONCRETE COLLAR

1. MAXIMUM = EXISTING + 3' ON HMA OVERLAYS UNLESS OTHERWISE APPROVED BY PIERCE COUNTY.
2. EXISTING MANHOLES THAT WILL EXCEED 28' BETWEEN THE RIM AND TOP LADDER RUNG OR PROVIDE LESS THAN 4' OF GRADE RINGS POST CONSTRUCTION SHALL BE RECONSTRUCTED PER DETAIL 2001 UNLESS OTHERWISE APPROVED BY PIERCE COUNTY. EXISTING MANHOLES EXCEEDING 28' BETWEEN THE RIM AND TOP LADDER RUNG PRIOR TO ADJUSTMENT MAY BE ELIGIBLE FOR REIMBURSEMENT BY PIERCE COUNTY.
3. BRICK OR DAMAGED GRADE RINGS SHALL BE REPLACED WITH NEW GRADE RINGS.
4. LADDER RUNGS SHALL NOT BE INSTALLED IN GRADE RINGS.



PIERCE COUNTY PLANNING & PUBLIC WORKS  
SEWER DIVISION  
9850 64TH STREET WEST  
UNIVERSITY PLACE, WASHINGTON 98467-1078  
(253) 798-4050

## STANDARD DETAILS

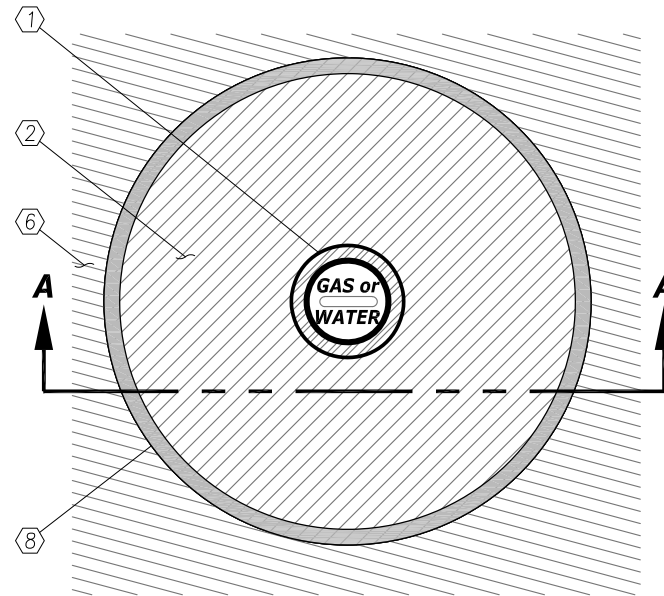
DATE  
6/27/2018  
SCALE  
NTS

## EXISTING MANHOLE ADJUSTMENT

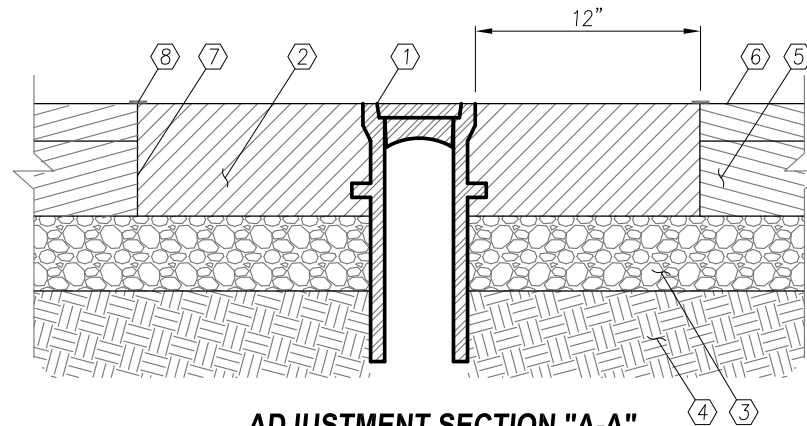
STANDARD DETAIL NO.

# 1002A

PAGE 1 OF 1



**RESTORATION PLAN**



**ADJUSTMENT SECTION "A-A"**

**CONSTRUCTION NOTES:**

- ① NEW OR EXISTING FRAME AND GRATE OR SOLID LID
- ② 6" HMA (2) 3" LIFTS
- ③ 4" CSTC
- ④ COMPACTED SUBGRADE
- ⑤ EXISTING HMA
- ⑥ NEW 2" HMA OVERLAY OR HMA PATCH
- ⑦ TACK COAT
- ⑧ JOINT SEAL

**GENERAL NOTES:**

- 1. MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE PER LATEST EDITION OF WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION UNLESS OTHERWISE NOTED.
- 2. NEW CASTING MAY BE PROVIDED BY UTILITY.

APPROVED FOR PUBLICATION

*Paul A. Bucich*  
Paul A. Bucich, P.E.  
PUBLIC WORKS DIRECTOR/CITY ENGINEER

01/10/20  
DATE

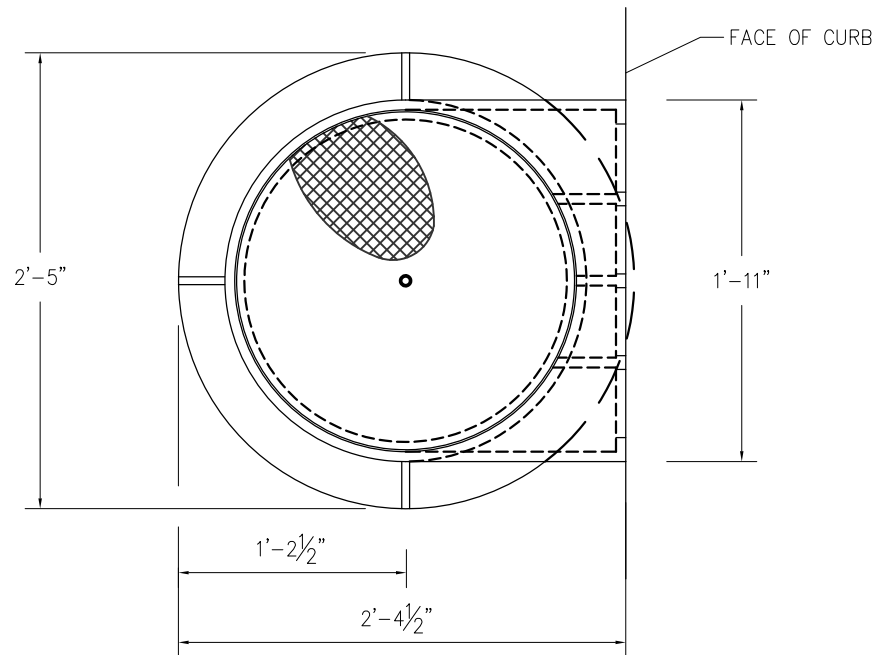


Public Works Department

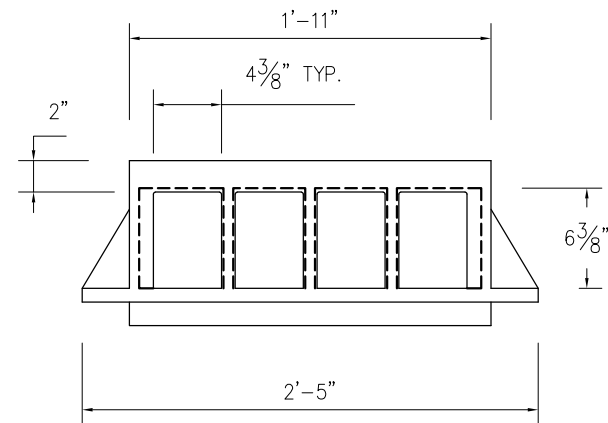
DATE	REVISION DESCRIPTION	BY	APPROVED
11/05/19	ORIGINAL DRAWING	AD/CD	PAB
6000 Main Street SW 98499		NOT TO SCALE	

**Valve Casing  
Adjustment and Restoration**

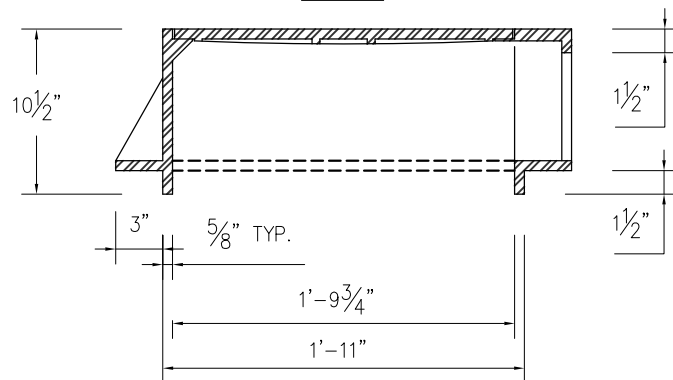
**MI-03**



**PLAN**



**FRONT ELEVATION**



**SIDE ELEVATION**

APPROVED FOR PUBLICATION

*Paul A. Bucich*  
Paul A. Bucich, P.E.  
PUBLIC WORKS DIRECTOR/CITY ENGINEER

01/10/20  
DATE



Public Works Department

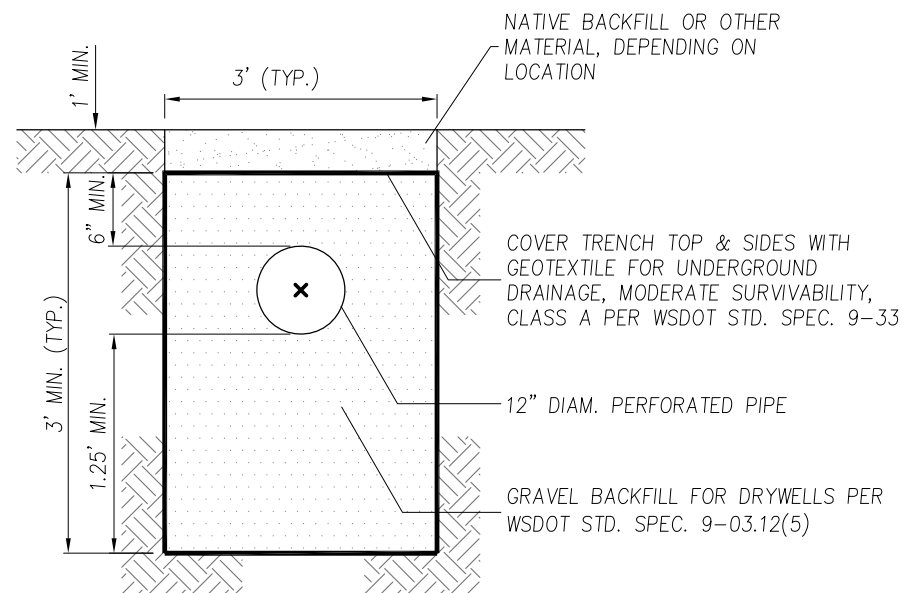
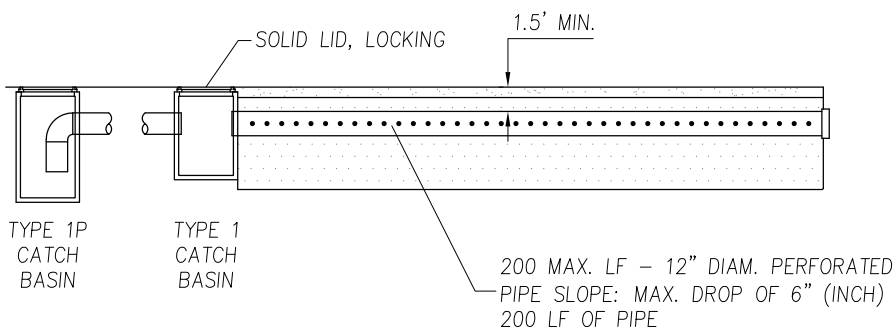
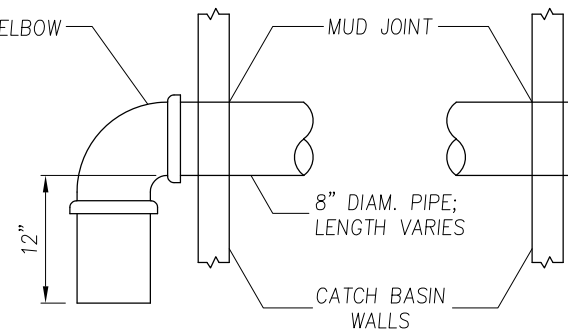
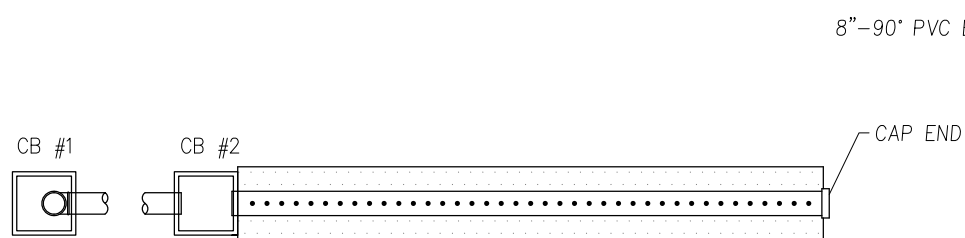
DATE	REVISION DESCRIPTION	BY	APPROVED
12/27/19	ORIGINAL DRAWING	AD/CD	PAB

6000 Main Street SW 98499

NOT TO SCALE

**Curb Inlet  
Frame and Cover**

**SW-01**



NOTE: THE FINISHED RIM ELEVATION OF THE TYPE 1P CATCH BASIN SHALL BE AT LEAST 2" LOWER THAN THE RIM ELEVATION OF THE TYPE 1 CATCH BASIN.

APPROVED FOR PUBLICATION

*Paul A. Bucich*  
**Paul A. Bucich, P.E.**  
 PUBLIC WORKS DIRECTOR/CITY ENGINEER

01/10/20  
 DATE



Public Works Department

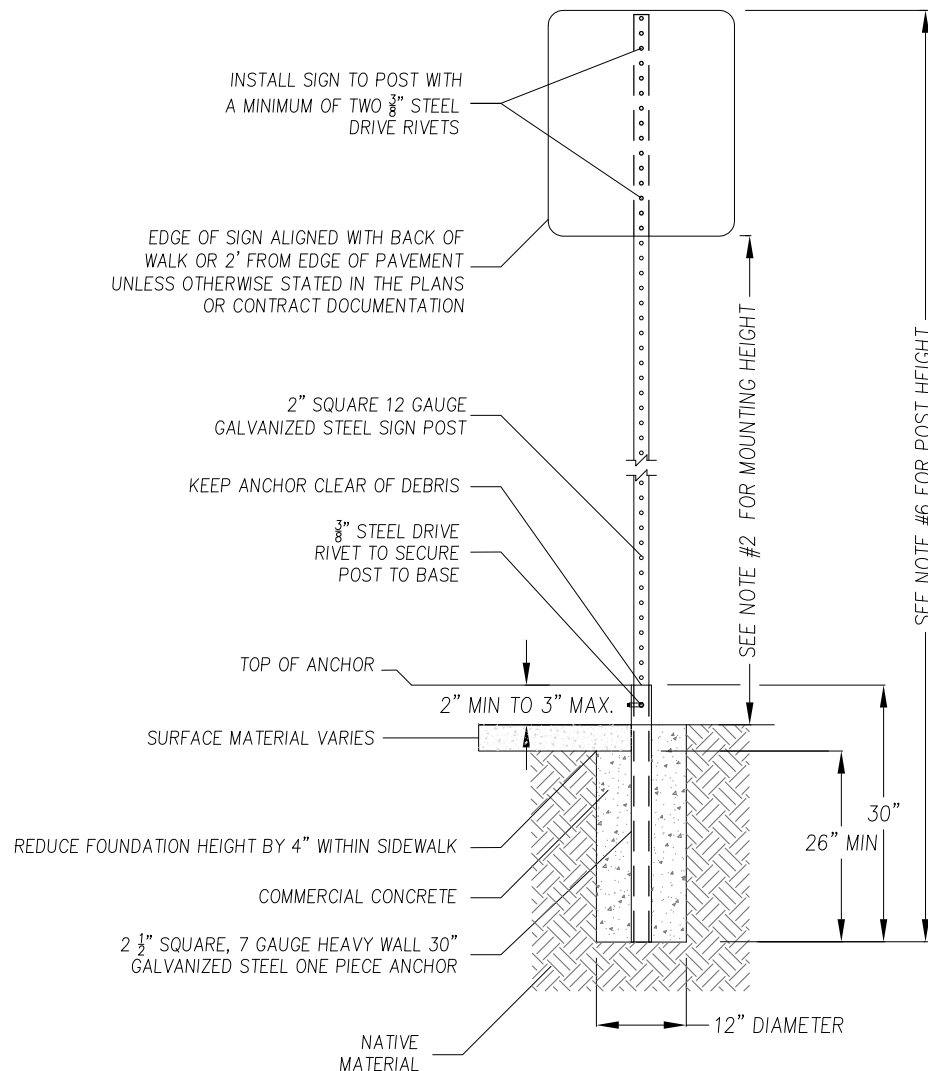
DATE	REVISION DESCRIPTION	BY	APPROVED
12/27/19	ORIGINAL DRAWING	AD/CD	PAB

6000 Main Street SW 98499

NOT TO SCALE

**Infiltration Trench  
 Detail**

**SW-03**



## GENERAL NOTES:

1. VERIFY AND STAKE LOCATIONS OF TRAFFIC SIGNS FOR ENGINEER APPROVAL AND ADJUSTMENT PRIOR TO INSTALLATION.
2. MOUNTING HEIGHT SHALL BE 7 FEET UNLESS OTHERWISE APPROVED BY THE ENGINEER WITH EXCEPTION TO:
  - A) MOUNTING HEIGHT FOR SECONDARY SIGNS MOUNTED BELOW ANOTHER SIGN MAY BE REDUCED BY 1 FOOT WHEN NOT LOCATED WITHIN SIDEWALK.
  - B) MOUNTING HEIGHT FOR ARROW AND CHEVRON SIGNS SHALL BE 5 FEET WHEN NOT LOCATED WITHIN SIDEWALK.
3. SIGN FACE SHALL BE TYPE 4 SHEETING.
4. ALL HARDWARE AND FASTENERS SHALL BE GALVANIZED STEEL UNLESS OTHERWISE NOTED.
5. TOP OF FOUNDATION SHALL BE FLUSH WITH FINISH GRADE EXCEPT WHEN COVERED BY SIDEWALK.
6. FOR SIGNS OTHER THAN CHEVRON OR ARROW (WI-6, WI-8):
  - A) USE 12' POST FOR SIGNS UP TO 30" TALL;
  - B) USE 14' POST FOR SIGNS 30-54" TALL;
  - C) CONTACT ENGINEER FOR SIGNS TALLER THAN 54"

APPROVED FOR PUBLICATION

*Paul A. Bucich*  
 Paul A. Bucich, P.E.  
 PUBLIC WORKS DIRECTOR/CITY ENGINEER

01/07/21  
 DATE



Public Works Department

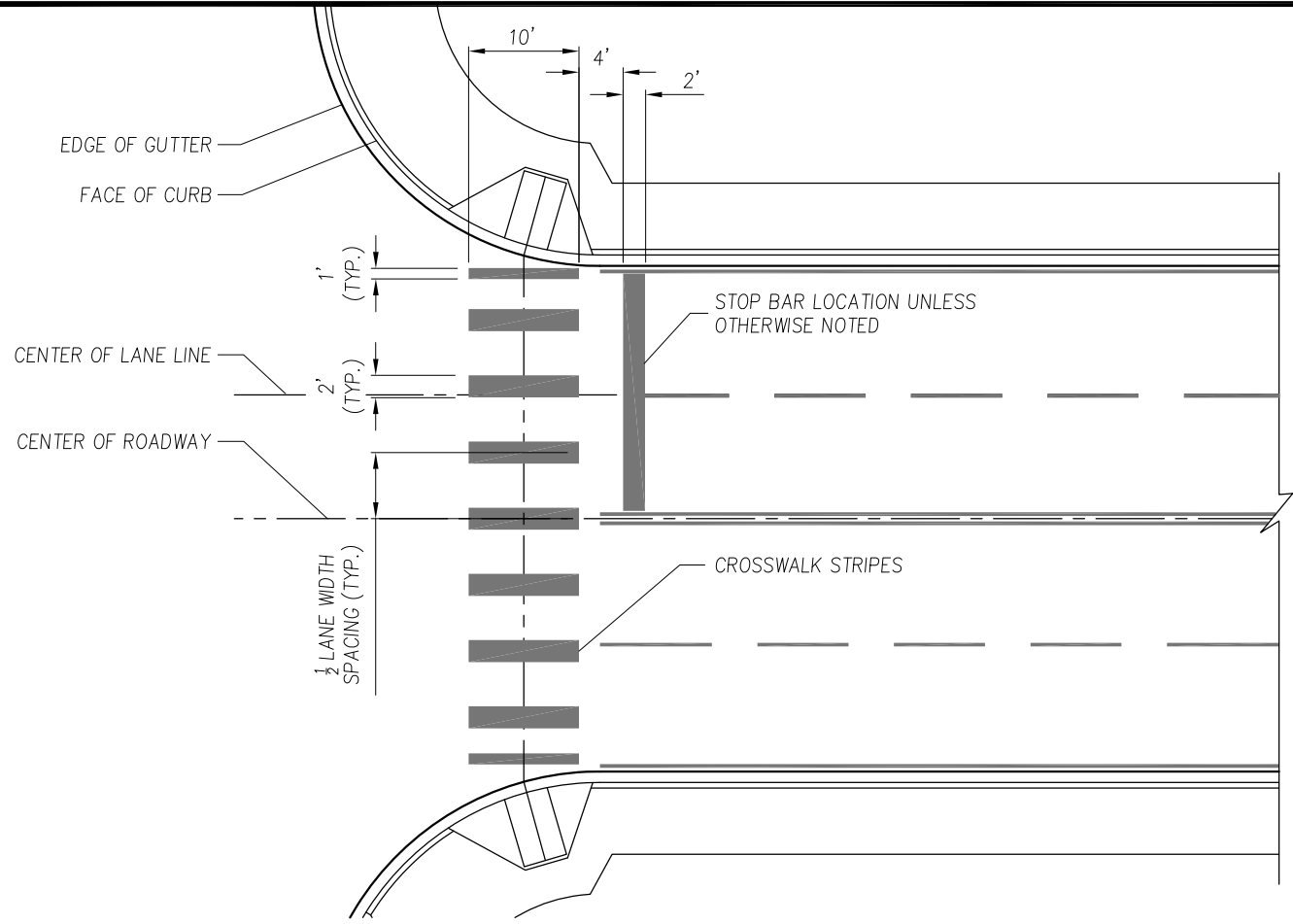
DATE	REVISION DESCRIPTION	BY	APPROVED
1/7/21	ORIGINAL DRAWING	AD/CD	PAB

6000 Main Street SW 98499

NOT TO SCALE


**Steel Post  
 Street Sign Support**

**PS-03**

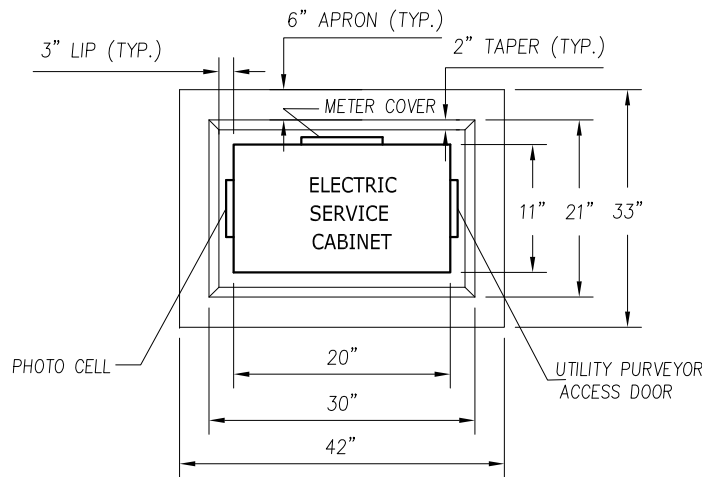


**GENERAL NOTES:**

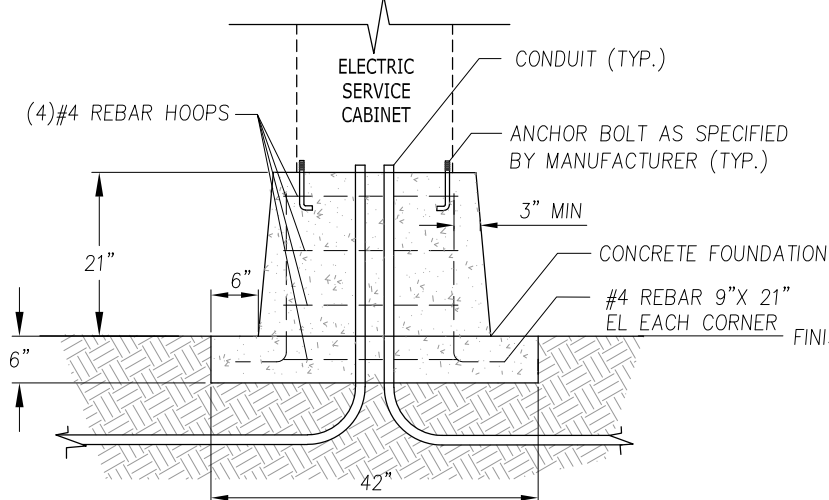
1. PAVEMENT MARKING SHALL BE PLASTIC TYPE D-LIQUID COLD APPLIED METHYL METHACRYLATE (MMA) PER WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. CENTER CROSSWALK ON CURB RAMP ON EACH SIDE OF THE STREET.

<p><b>APPROVED FOR PUBLICATION</b></p> <div style="text-align: center;">  </div> <p><i>Paul A. Bucich</i> 01/10/20  <b>Paul A. Bucich, P.E.</b>          PUBLIC WORKS DIRECTOR/CITY ENGINEER</p>	<p>Public Works Department</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>REVISION DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td>12/27/19</td> <td>ORIGINAL DRAWING</td> <td>AD/CD</td> <td>PAB</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	REVISION DESCRIPTION	BY	APPROVED	12/27/19	ORIGINAL DRAWING	AD/CD	PAB																	<p>6000 Main Street SW 98499</p>	<p>NOT TO SCALE</p>	<h2 style="margin: 0;">Crosswalk and Stop Bar</h2>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>PS-05</b> </div>
DATE	REVISION DESCRIPTION	BY	APPROVED																											
12/27/19	ORIGINAL DRAWING	AD/CD	PAB																											

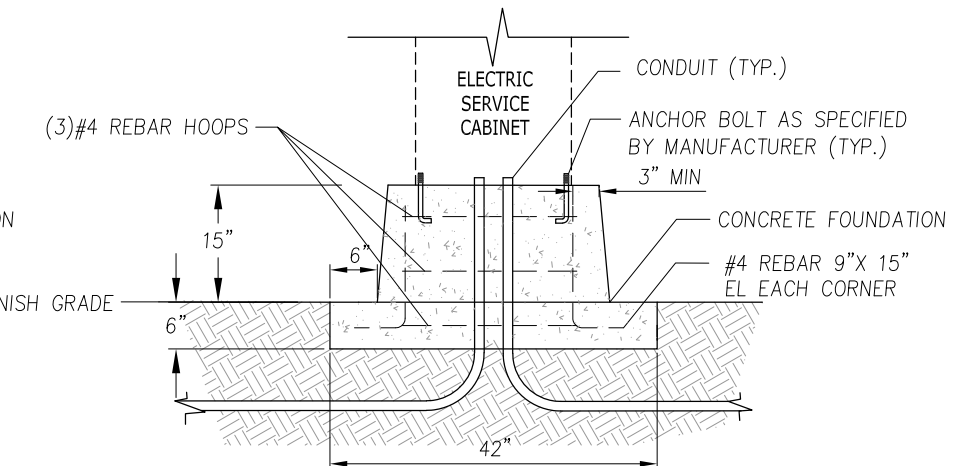




**PLAN**



**ELECTRICAL SERVICE CABINET UP TO 57" TALL  
ELEVATION**



**ELECTRICAL SERVICE CABINET OVER 57" TALL  
ELEVATION**

**GENERAL NOTES:**

1. MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE PER LATEST EDITION OF WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. CONTRACTOR TO VERIFY FOUNDATION SIZE, ANCHOR BOLT LOCATION, AND CONDUIT LOCATION BASED ON APPROVED EQUIPMENT SHOP DRAWINGS PRIOR TO CONSTRUCTION.
3. PHOTO CELL GENERATOR SWITCH AND UTILITY PURVEYOR ACCESS DOOR SHALL BE 24" CLEAR OF OTHER OBJECTS.
4.  $\frac{3}{8}$  IN.  $\phi$  PLASTIC DRAIN TUBE SHALL BE PROVIDED FROM BASE OF CABINET TO TOP OF CONCRETE PAD AT HOUSE SIDE OF CONCRETE PEDESTAL.
5. SERVICE CABINET GROUNDING CONDUIT NOT SHOWN. CONDUIT SHALL BE RCM. SEE WSDOT STANDARD PLAN J-60.05-01 FOR TYPICAL GROUNDING DETAILS. NO GROUND RODS SHALL BE INSTALLED IN PEDESTAL.
6. CONCRETE PAD SHALL HAVE A BRUSHED FINISH. THE CONCRETE PEDESTAL TOP SHALL HAVE SMOOTH, TROWEL FINISH, WITH 0.5 IN. ROUND FILLET ON OUTSIDE TOP EDGE.
7. SEAL CONCRETE PEDESTAL TOP WITH SILVER PAINT. APPLY ADEQUATE OUTDOOR SEALANT JUST PRIOR TO PLACING CABINET. SEAL CABINET TO CONCRETE PEDESTAL. APPLY DRESS BEADING AROUND CABINET TO COMPLETE SEAL. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
8. SERVICE CONDUIT INTO THE SERVICE CABINET SHOULD FOLLOW LOCAL POWER UTILITY SPECIFICATION; PLACEMENT TO MATCH SERVICE CABINET CONSTRUCTION. UTILITY MAY REQUIRE A DATA CONDUIT.

APPROVED FOR PUBLICATION

*Paul A. Bucich*  
Paul A. Bucich, P.E.  
PUBLIC WORKS DIRECTOR/CITY ENGINEER

01/10/20  
DATE



Public Works Department

DATE	REVISION DESCRIPTION	BY	APPROVED
11/05/19	ORIGINAL DRAWING	AD/CD	PAB

6000 Main Street SW 98499

NOT TO SCALE

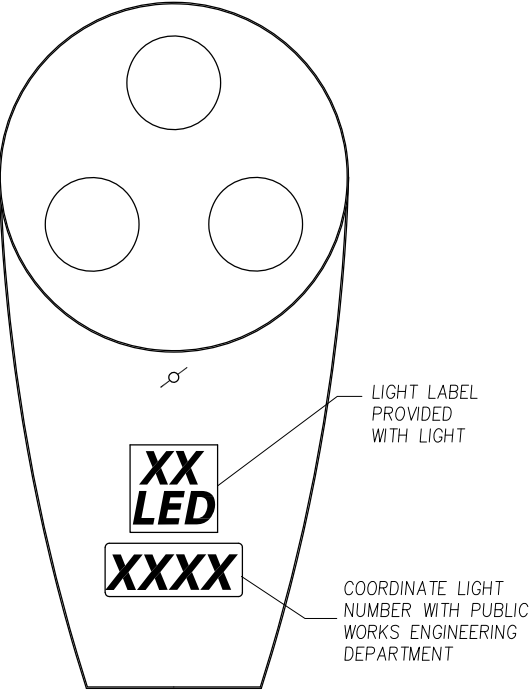
**Service Cabinet  
Pedestal**

**IS-04**

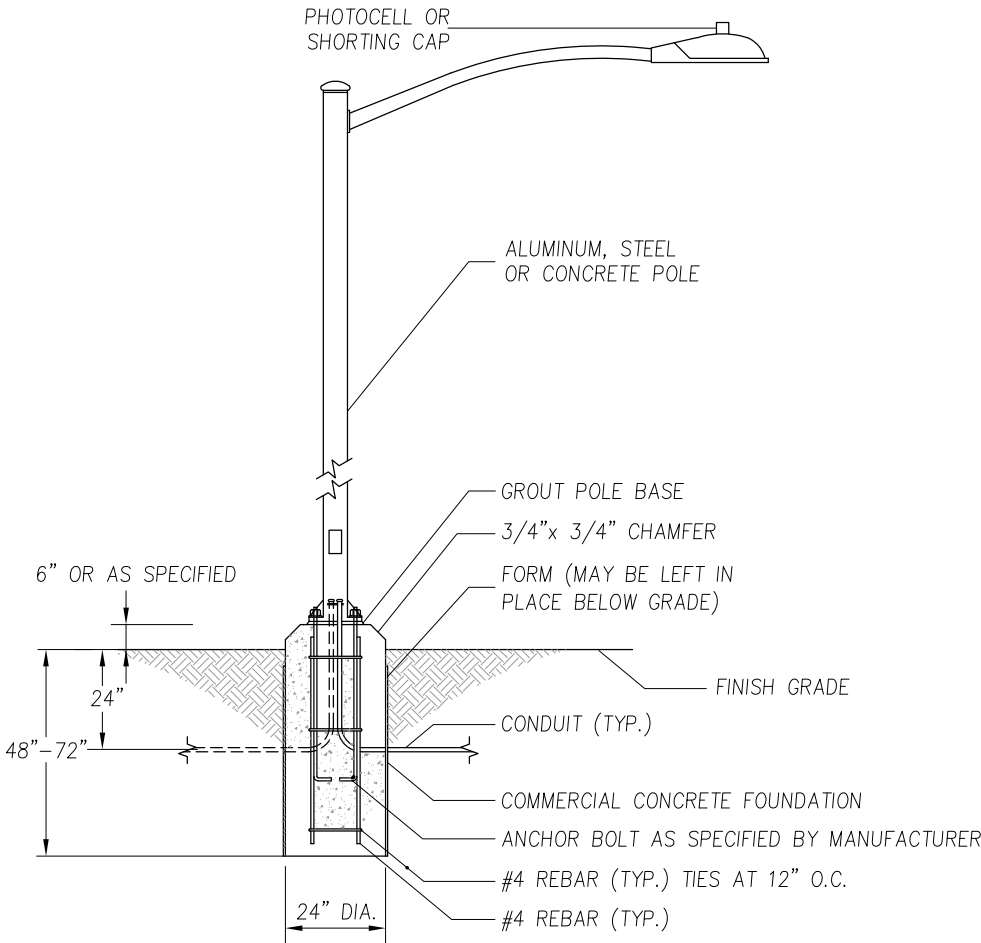


**GENERAL NOTES:**

1. MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE PER CITY OF LAKEWOOD ENGINEERING STANDARDS MANUAL SECTION 9.1.
2. FOUNDATION DEPTH SHALL BE 48" FOR ALUMINUM AND STEEL POLES AND 72" FOR CONCRETE POLES.
3. IF A STREET LIGHT IS PLACED IN A SIDEWALK, THE TOP OF THE FOUNDATION SHALL BE FLUSH WITH THE TOP OF SIDEWALK, AND THE FOUNDATION SHALL NOT INCLUDE A CHAMFER.



**STREET LIGHT LABELING**



APPROVED FOR PUBLICATION

*Paul A. Bucich*  
Paul A. Bucich, P.E.  
PUBLIC WORKS DIRECTOR/CITY ENGINEER

01/10/20  
DATE

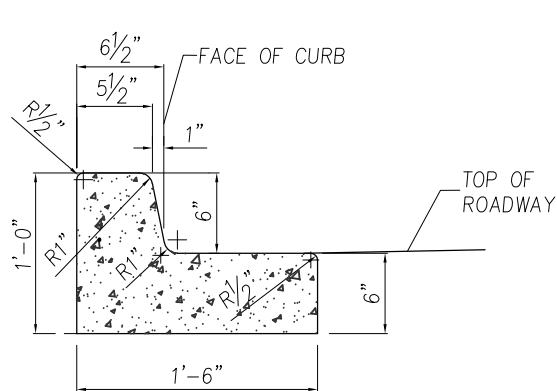


Public Works Department

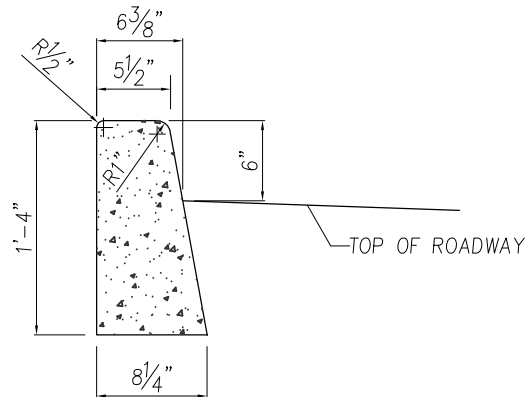
DATE	REVISION DESCRIPTION	BY	APPROVED
11/05/19	ORIGINAL DRAWING	AD/CD	PAB
6000 Main Street SW 98499		NOT TO SCALE	

**Street Lights**

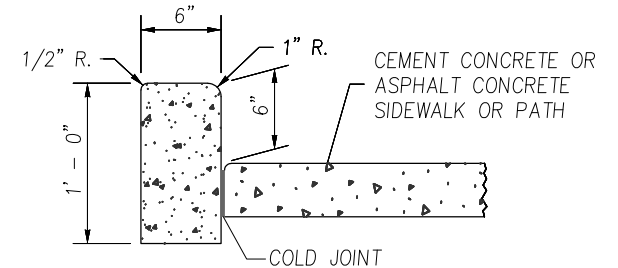
**IS-06**



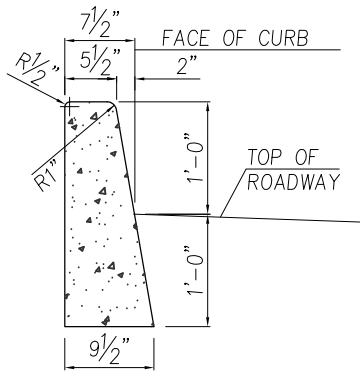
**TRAFFIC CURB AND GUTTER**



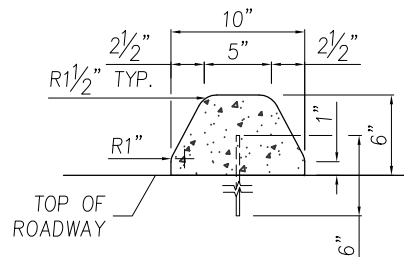
**TRAFFIC BARRIER CURB**



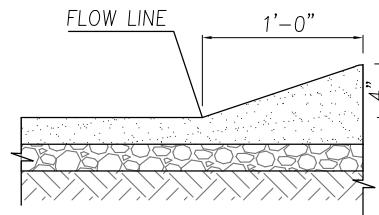
**PEDESTRIAN CURB**



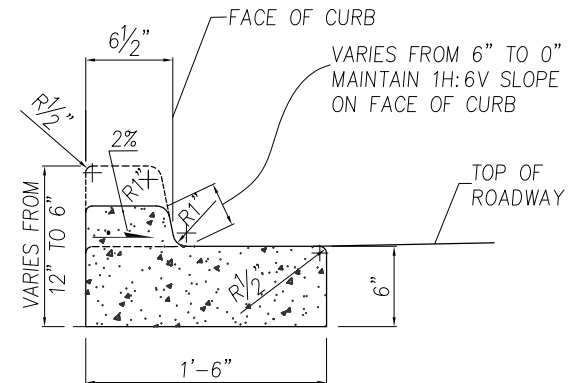
**TRUCK BARRIER CURB**



**EXTRUDED CURB**



**HMA WEDGE CURB**



**DEPRESSED CURB AND GUTTER**

(AT CURB RAMPS AND DRIVEWAY ENTRANCES)

**GENERAL NOTES:**

1. MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE PER LATEST EDITION OF WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.

APPROVED FOR PUBLICATION

*Paul A. Bucich*  
Paul A. Bucich, P.E.  
PUBLIC WORKS DIRECTOR/CITY ENGINEER

01/10/20  
DATE



Public Works Department

DATE	REVISION DESCRIPTION	BY	APPROVED
11/2/09	ORIGINAL DRAWING	AD	DEW
2/28/12	REVISED DRAWING	TB/LC	DEW
3/2/15	REMOVED TYPE "C" CURB	LC	DEW
9/7/17	REVISED DRAWING	TJM	DEW
1/16/19	REVISED DRAWING	CD	PAB

6000 Main Street SW 98499

NOT TO SCALE

**Curbs**

**FR-04**



1. MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL BE PER LATEST EDITION OF WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. FOUR FEET OF SIDEWALK WIDTH SHALL BE THE MINIMUM PEDESTRIAN ACCESSIBLE ROUTE FREE OF VERTICAL AND HORIZONTAL OBSTRUCTIONS.
3. GRATINGS, ACCESS COVERS, JUNCTION BOXES, CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK MUST HAVE SLIP RESISTANT SURFACES, BE FLUSH WITH SURFACE, AND MATCH GRADE OF THE SIDEWALK.
4. A REVERSE SLOPE ON SIDEWALK MAY BE ALLOWED WITH CITY ENGINEER APPROVAL TO ACCOMMODATE THE INSTALLATION OF LOW IMPACT DEVELOPMENT BMP'S.
5. A REDUCED WIDTH OF SIDEWALK MAY BE ALLOWED WITH CITY ENGINEER APPROVAL TO ACCOMMODATE THE INSTALLATION OF LOW IMPACT DEVELOPMENT BMP'S.
6. SIDEWALK SHALL BE PLACED OVER 2" (INCH) CSTC.

**FR-03**