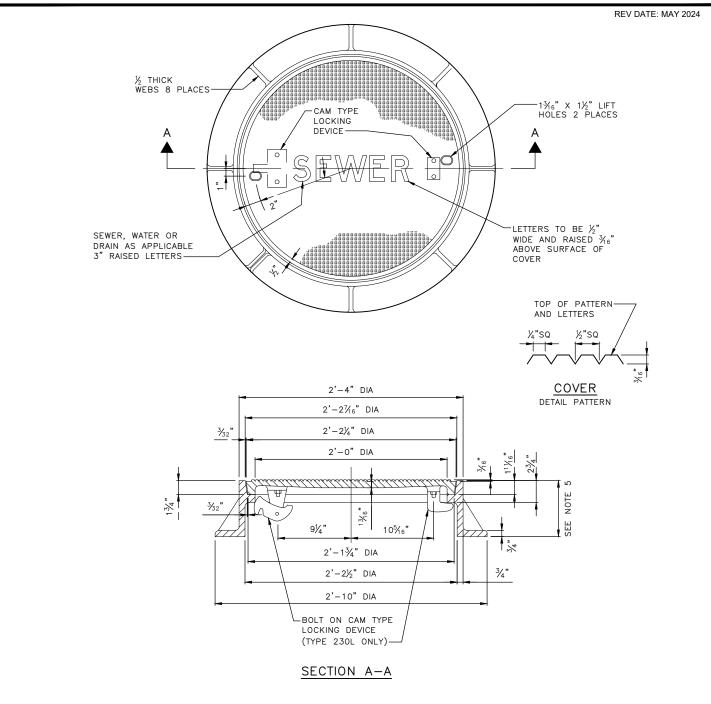
REV DATE: JULY 2023

		REV DATE: JULY 2023
ITEM	EXISTING	PROPOSED
Maintenance Holes		MH-7
Inlet Type 250A		
Inlet Type 250B	×	<del></del>
Inlet Type 252		<del></del>
Inlet Type 268	Г	
Catch Basin round inlet top	<b>(⊗)</b>	
Private CB & Inlet	[+]	
Catch Basin Type 151 (pre 1985)	(6)	
Catch Basin Type 240A	(Q) <sub>A</sub>	<b>●</b> A
Catch Basin Type 240B	(D)B	■B
Catch Basin Type 240C	(A) <sub>C</sub>	lacktriangleC
Catch Basin Type 240D	( <u>@</u> ) <sub>D</sub>	<b>⊗</b> D
Catch Basin Type 241	[5-3]	
Catch Basin Type 242A	(=3)	
Catch Basin Type 242B		
Junction Box Type 277A		
Junction Box Type 277B		
Area Drain		
REF STD SPEC SEC		
City of Seattle	NOT TO SCALE	STANDARD SYMBOLS SEWER & DRAINAGE



- DESIGNATE LOCKING COVER AS TYPE 230L FOR USE IN NON-VEHICULAR TRAFFIC AREAS.
- COVER THICKNESS IS MEASURED FROM THE BOTTOM OF THE PATTERN.
- FRAMES MUST BE MANUFACTURED FROM CAST IRON OR DUCTILE IRON. 4. COVERS MUST BE MANUFACTURED FROM DUCTILE IRON.

- 5. CASTING HEIGHTS:

   MUST BE 10" WHEN IN ROADWAY.

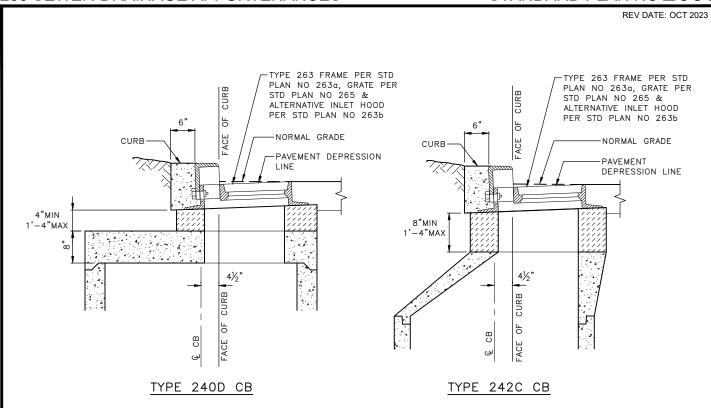
   MUST BE 7" WHEN NOT IN ROADWAY
- SEE ALSO STD PLAN NO. 406.

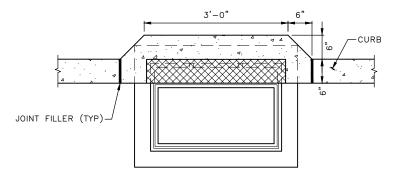
REF STD SPEC SEC 7-05, 9-12



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2'-0" DIAMETER FRAME & COVER





CURB DETAIL (PLAN VIEW) FOR TYPE 240D & 242C CB & TYPE 250B INLET

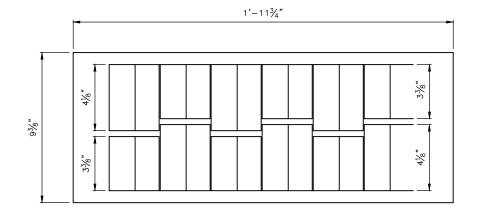
REF STD SPEC SEC 7-05

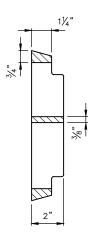


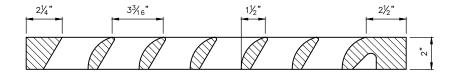
NOT TO SCALE

CATCH BASIN & INLET INSTALLATION WITH STANDARD PLAN 263B ALTERNATIVE HOOD

REV DATE: MAY 2024







# NOTES:

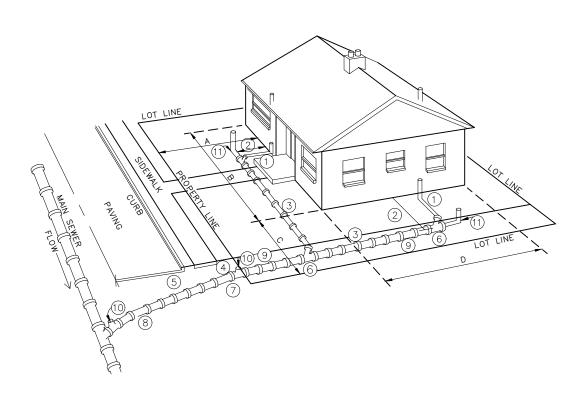
- 1. OPEN AREA 100 SQUARE INCHES.
- 2. OTHER GRATES ACCEPTABLE; SPECIFY VANE, SOLID COVER, BI-DIRECTIONAL VANE, ADA OR BEEHIVE ON PLANS.
- 3. SEE STD PLAN NO 265 FOR VANE AND END DETAIL.
- 4. STD PLAN NO 266 DIMENSIONS GOVERN ON END DETAIL.
- 5. REPLACEMENT VANED GRATE FOR TYPE 164 INLET FRAMES.

REF STD SPEC SEC 7-20.3(6), 9-12



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TYPE 266 REPLACEMENT VANED GRATE



## NOTES:

- ALL SANITARY PLUMBING OUTLETS MUST BE CONNECTED TO THE SANITARY SEWER OR COMBINED SEWER. 2'-6"MIN DISTANCE FROM HOUSE, EXCEPT FOR SOIL PIPE CONNECTION. 1'-6"MIN COVER OF PIPE.

- 4. 2'-6"MIN COVER AT PROPERTY LINE.
- 5. 5'-0"MIN COVER AT CURB LINE.
- 6. LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH BENDS OR WYES.
  7. STANDARD 4" TO 6" INCREASER.
- 9. 4" SEWER PIPE: MIN SIZE IN STREET, AND ELSEWHERE AS DIRECTED. 2% MIN GRADE, 100% MAX.
  9. 4" SEWER PIPE: MIN SIZE ON PROPERTY. 2% MIN GRADE, 100% (45\*) MAX.

- 10. TEST "T" WITH PLUG
  11. CLEANOUT AT UPSTREAM END OF SIDE SEWER.
  12. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE CURRENT SIDE SEWER ORDINANCE.

### **DIMENSIONS:**

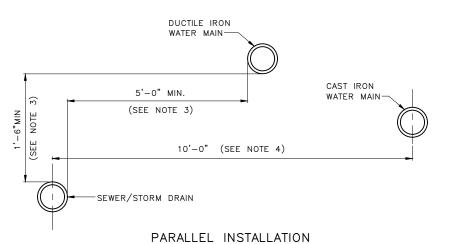
- A = FRONT YARD SETBACK
  B = LENGTH OF HOUSE
  C = SIDE YARD SETBACK
  D = WIDTH OF HOUSE

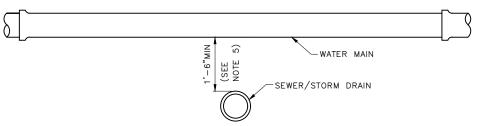
**REF STD SPEC SEC 7-18** 



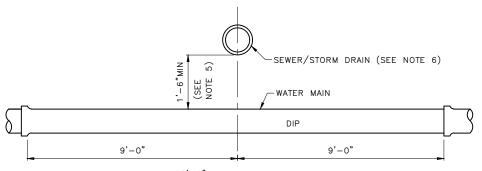
NOT TO SCALE

SIDE SEWER INSTALLATION





# CROSSING WATER OVER SEWER/STORM DRAIN



STANDARD SINGLE 18'-0" NOMINAL LENGTH DUCTILE IRON WATER MAIN SECTION CENTERED AT THE POINT OF CROSSING

# CROSSING WATER UNDER SEWER/STORM DRAIN

#### NOTES:

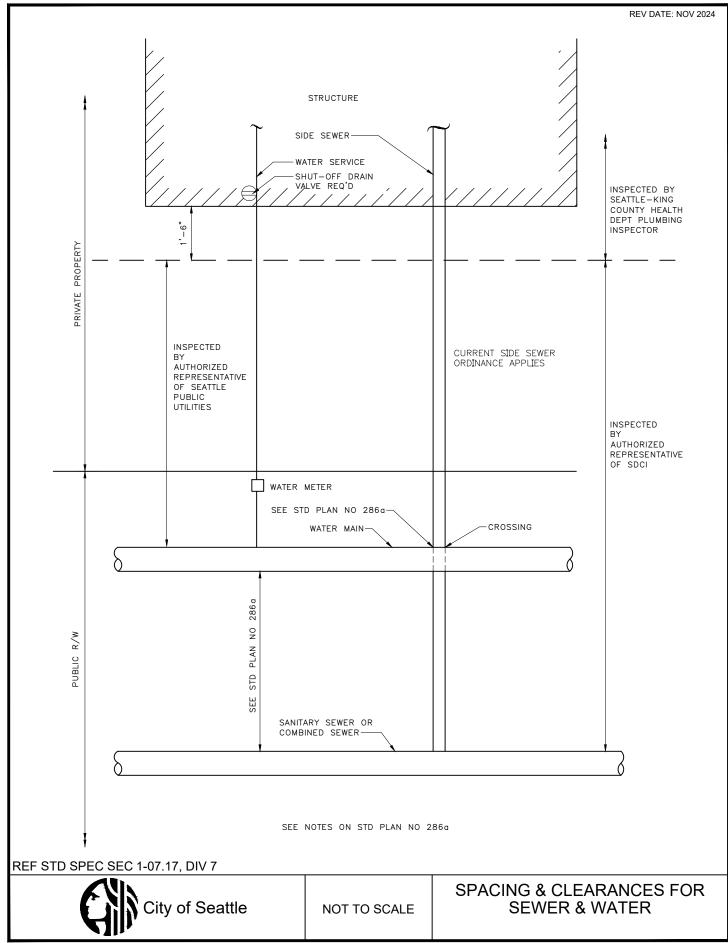
- EXCEPTIONS TO STD PLAN NO 286a & 286b MUST BE APPROVED BY SEATTLE PUBLIC UTILITIES.
- "SEWER/STORM DRAIN" INCLUDES STORM DRAINS, SANITARY SEWER, COMBINED SEWER MAINS AND SIDE SEWER.
- 3. WHERE MINIMUM CLEARANCES CANNOT BE MET, SEWER MUST BE CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS INCLUDING WATER MAIN PRESSURE TESTING REQUIREMENTS.
- 4. NO VERTICAL CLEARANCE REQUIRED.
- IF MINIMUM VERTICAL SEPARATION CANNOT BE MET, WATER MAIN MUST BE A STANDARD SINGLE 18'-0" NOMINAL LENGTH DUCTILE IRON WATER MAIN SECTION CENTERED AT THE POINT OF CROSSING.
- SEWER/STORM DRAIN MUST HAVE ADEQUATE FOUNDATION SUPPORT TO PREVENT SETTLEMENT ON THE WATER MAIN AND TO PREVENT DEFLECTION OF WATER MAIN JOINTS.
- 7. CROSSINGS AT AN ANGLE BETWEEN 90° AND 45° MAY OCCUR BETWEEN 9'-0" AND 6'-0" OF WATER MAIN JOINT. FOR CROSSINGS LESS THAN 45°, SEE NOTE 1.

REF STD SPEC SEC 1-07.17, 7-11



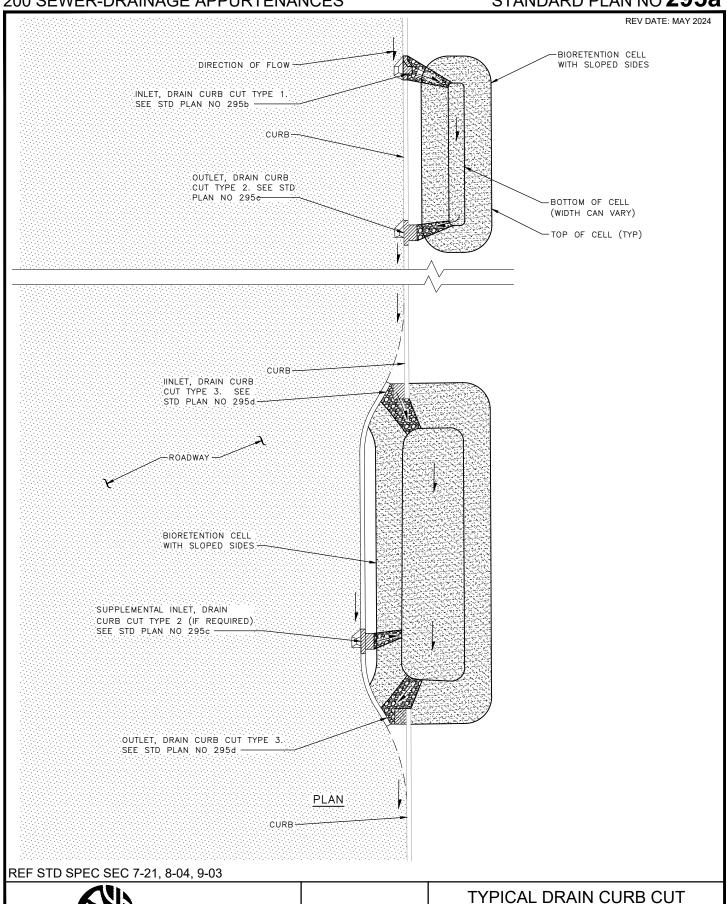
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SPACING & CLEARANCES FOR SEWER/STORM DRAIN & WATER



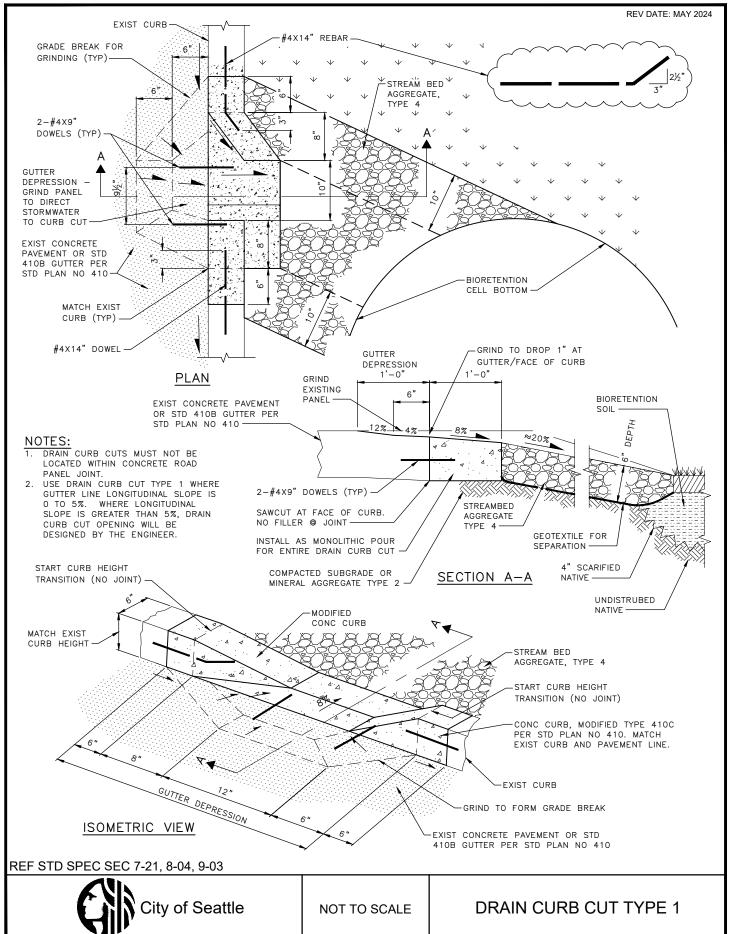
LOCATION FOR BIORETENTION

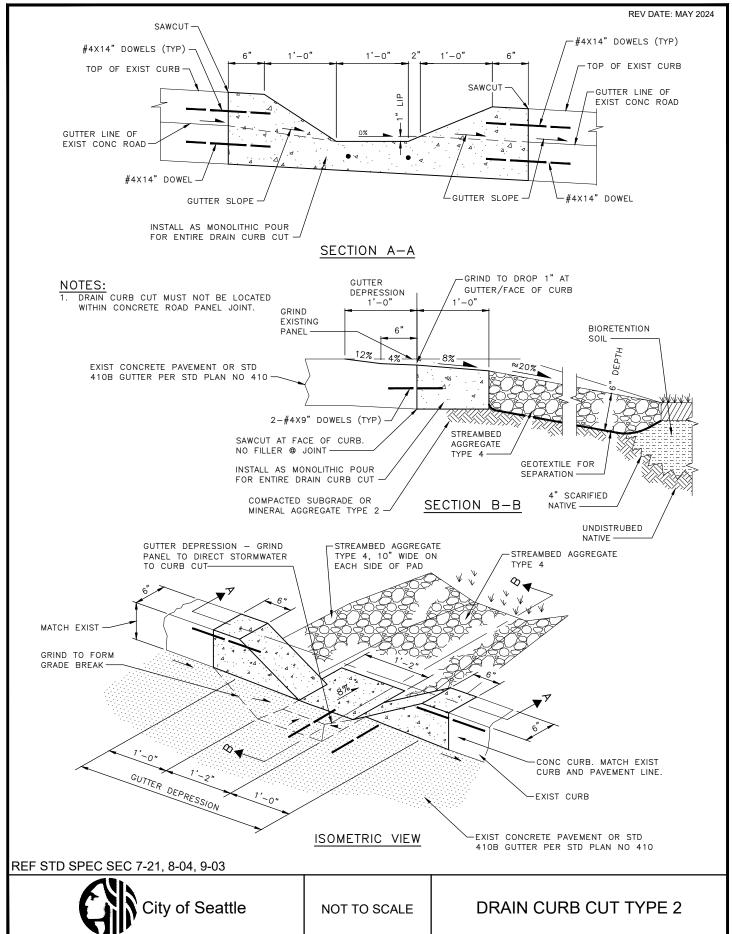
WITH SLOPED SIDES

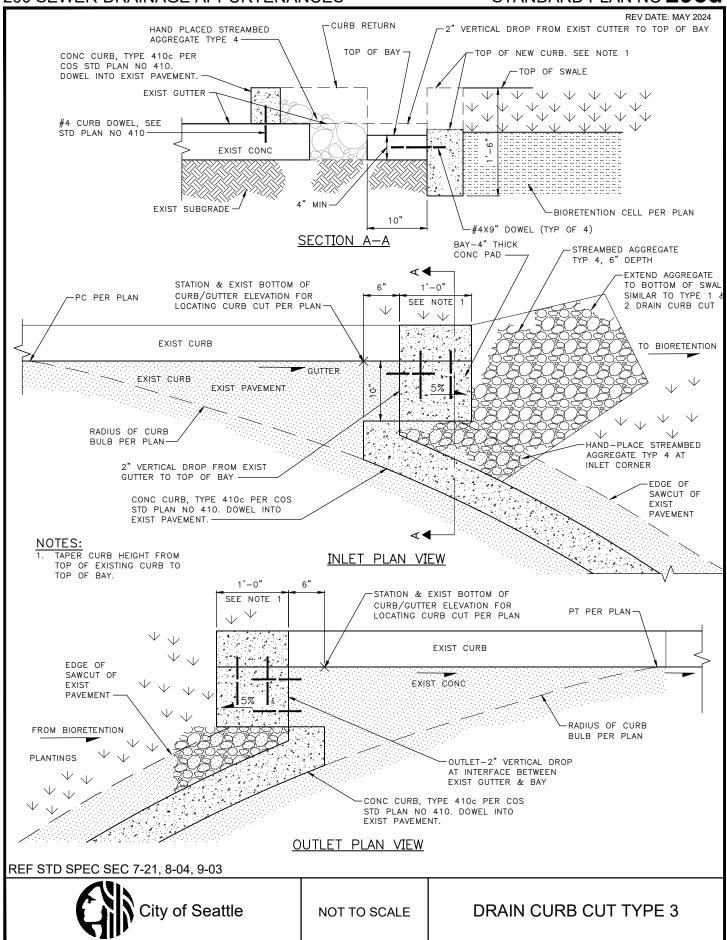


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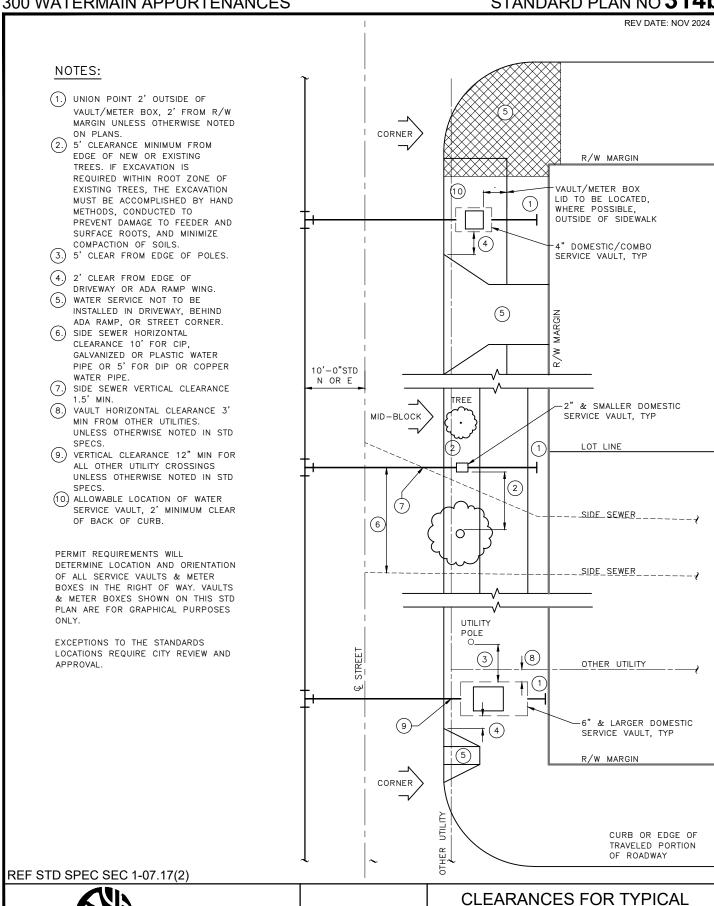






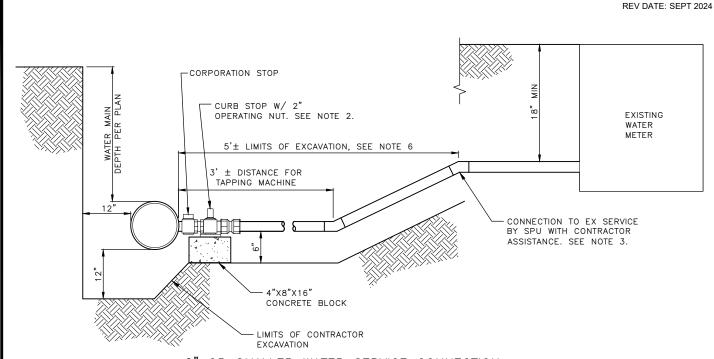
WATER SERVICE VAULTS

& METER BOXES

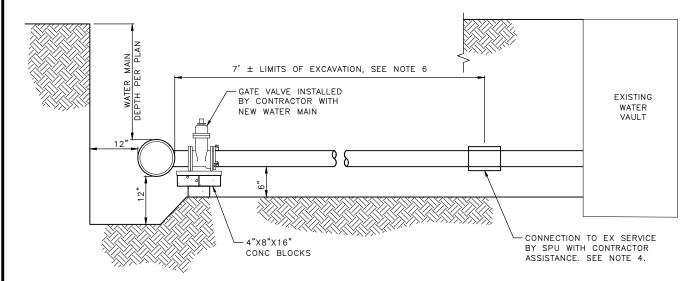


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# 2" OR SMALLER WATER SERVICE CONNECTION



# 4" OR LARGER WATER SERVICE CONNECTION

### NOTES:

- SPU PROVIDES MATERIALS, INSTALLS, AND CONNECTS SERVICES 2" AND SMALLER WITH CONTRACTOR ASSISTANCE.
  CONTRACTOR PROVIDES MATERIALS FOR SERVICES 4" AND LARGER EXCEPT FOR SLEEVE TO EXISTING PIPE. SEE STANDARD SPECIFICATIONS SECTION 7-15.

- 2. CURB STOP IS INSTALLED FOR 1.5" AND 2" SERVICES. CONTRACTOR TO INSTALL VALVE BOX PER STD PLAN 315.

  3. NON-COPPER SERVICES MUST BE RENEWED UP TO THE WATER METER.

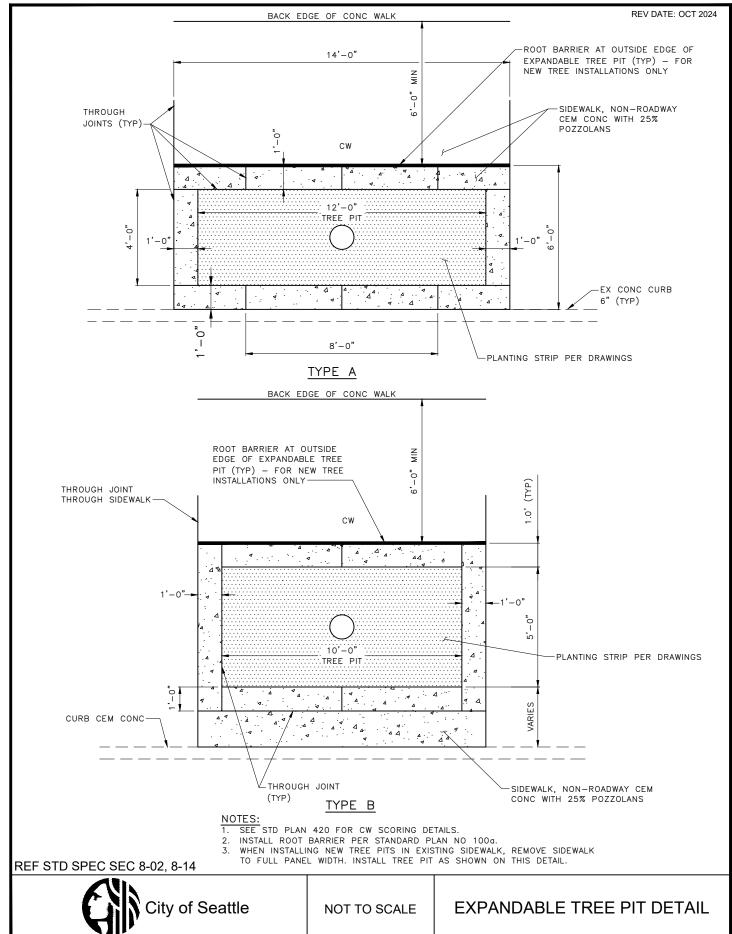
  4. WHERE INDICATED IN DRAWINGS OR THE WATER SERVICE TABLE, THE WATER SERVICE MUST BE RENEWED TO THE EXISTING
- 5. BEDDING AND BACKFILL OF SERVICE LINES MUST BE THE SAME AS THE WATER MAIN.
  6. LIMITS OF EXCAVATION MAY BE LARGER. REFER TO DRAWINGS FOR ACTUAL EXTENTS OF WATER SERVICE INSTALLATION.

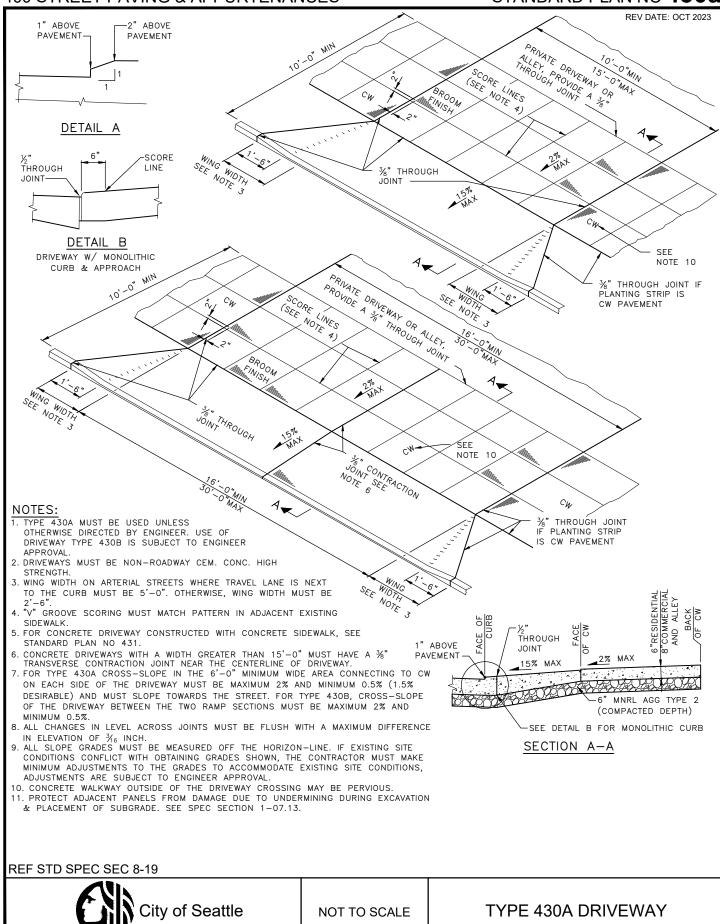
REF STD SPEC SEC 7-11, 7-15

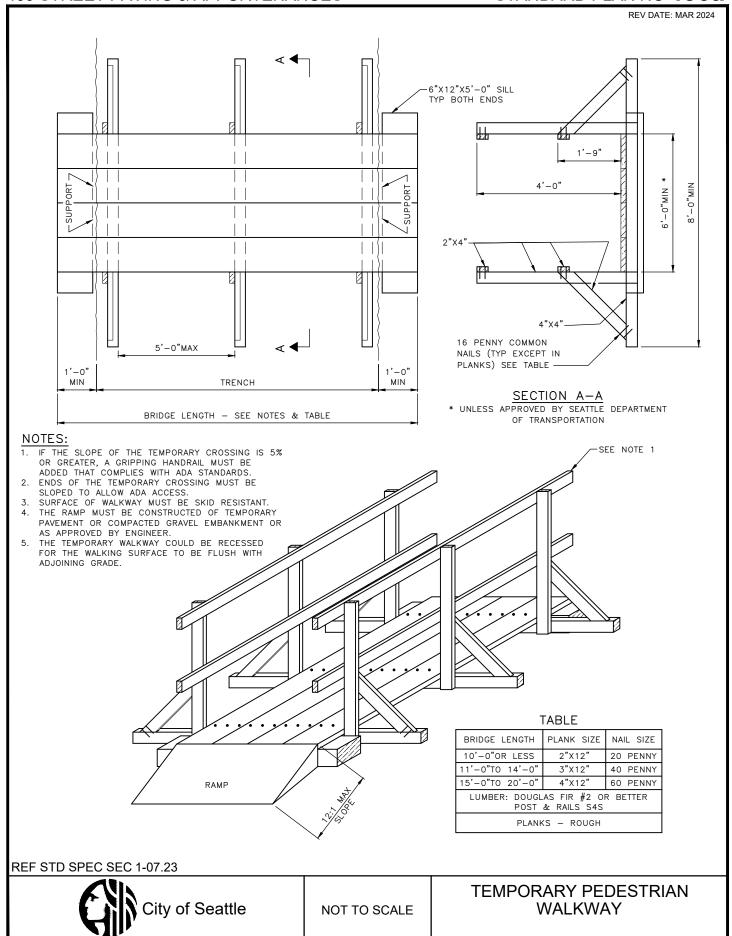


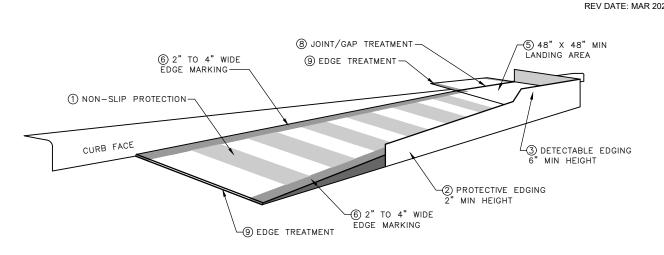
NOT TO SCALE

WATER SERVICE CONNECTION TO NEW WATER MAIN

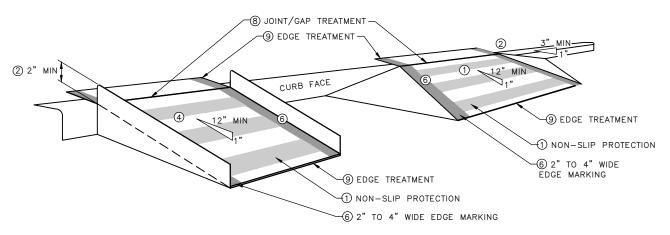








## TEMPORARY CURB RAMP PARALLEL TO CURB



# TEMPORARY CURB RAMP PERPENDICULAR TO CURB

# NOTES:

- ① CURB RAMPS ARE REQUIRED TO BE AT LEAST 36 INCHES WIDE WITH A FIRM, STABLE, AND NON-SLIP SURFACE.
- ② EDGE PROTECTION WITH A TWO-INCH MINIMUM HEIGHT IS REQUIRED FOR RAMPS WITH A RISE GREATER THAN SIX INCHES OR A SIDE APRON SLOPE GREATER THAN 33 PERCENT.
- ③ EDGE PROTECTION IS REQUIRED ON RAMPS WITH A VERTICAL ELEVATION OVER SIX INCHES AND SHOW A CONTRASTING COLOR WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- CURB RAMPS AND LANDINGS ARE REQUIRED TO HAVE A TWO-PERCENT MAXIMUM CROSS SLOPE.
- (S) PROVIDE A CLEAR SPACE OF AT LEAST 48 INCHES BY 48 INCHES ABOVE AND BELOW THE CURB RAMP.
- MARK THE CURB RAMP WALKWAY EDGE WITH A CONTRASTING COLOR TWO TO FOUR INCHES WIDE UNLESS COLOR-CONTRASTING EDGING IS USED, AS REQUIRED BY ITEM 3 ABOVE.
- 7 WATER FLOW IN THE GUTTER SHOULD HAVE MINIMUM RESTRICTION.
- B LIMIT LATERAL JOINTS OR GAPS BETWEEN SURFACES TO BE LESS THAN
- (9) CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED HALF AN INCH. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 INCHES HIGH AND BEVELED AT 1:2 WHEN BETWEEN 0.25 AND 0.5 INCHES HIGH.

REF STD SPEC SEC 1-07.23



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TEMPORARY PEDESTRIAN CURB RAMP

