

ADDENDUM NO.3

Date: **July 1, 2021**

Subject: **Addendum No.3 to Contract Documents
City of Mercer Island
Booster Chlorination System Project (Bid #21-28)**

From: **Rona Lin, PE., Project Manager**

To: **ALL PLAN HOLDERS**

The following changes are hereby made part of the Contract Documents for the construction of the subject project as fully and completely as if they were fully set forth therein:

VOLUME 1 – SPECIFICATIONS AND CONTRACT DOCUMENTS

- 1) NOTICES
 - a. The sealed bid deadline has been extended.
 - b. Page N-16 – REPLACE “10:00 AM on July 2, 2021” with “1:00 PM on July 6, 2021”.
 - c. Page N-16 – Under “Important Notes” ADD item: “4. Bid questions must be submitted to the City no later than 2:00 PM on July 2, 2021.”
- 2) BIDDING REQUIREMENTS
 - a. Page A-4, Schedule A, Bid Item A9 – REPLACE with “Pressure Reducing Valve and Flow Meter Vault Replacement and Installation”.
- 3) SECTION 01_11_00 – SUMMARY OF WORK
 - a. Paragraph 1.08.F.2.1) – REPLACE “relief” with “reducing”.
 - b. Paragraph 1.08.F. 9 – REPLACE with: “9. Bid Item A9: Pressure Reducing Valve and Flow Meter Replacement and Installation”.
- 4) SECTION 40_05_65.01 – GATE, GLOBE, AND ANGLE VALVES
 - a. Paragraph 2.01.A.2.b – DELETE: “double-disc,”
- 5) SECTION 40_05_67.37 – PRESSURE REDUCING AND PRESSURE RELIEF VALVES
 - a. Paragraph 2.01.A.1.a – REPLACE with: “Cla-Val Model 131G-01BCESYKC.”
 - b. Paragraph 2.01.A.1.b – REPLACE with: “Watts ACV, equivalent model.”
 - c. Paragraph 2.01.A.2.a – REPLACE with “Pilot controlled, hydraulically operated, diaphragm actuated, globe patterned valve with solenoid controlled pilots for flow control, valve position transmitter (Cla-Val X117D, or equal), and microswitch to indicate valve full close position.”
 - d. Paragraph 2.01.A.3 – ADD: “e. Valve shall have NSF 61 approved fusion bonded epoxy coating (interior and exterior) in accordance with AWWA C116.”

VOLUME 2 – DRAWINGS

- 6) DRAWING C06 (Sheet 13 of 56)
 - a. REPLACE Key Note 7 with “7. LOW FLOW PRV CLA-VAL MODEL 92G-01BCVKC, OR EQUAL.”
- 7) DRAWING NO. TW01 (Sheet 55 of 56)
 - b. REPLACE Details W-27A, W-27B, W-27C, W-27D, and W-27E with attached Details.

BIDDER QUESTIONS AND RESPONSES

- 8) Are the gate valves required to have double discs?

Response: Gate valves do not require double discs. Provide per AWWA C515 and C509. See Item 4 in this Addendum No.3.

- 9) Lead times for valves varying from 30-38 weeks from approved submittal which creates a problem with meeting the completion dates noted on the bid form. Will the work be able to be extended due to these lead times?

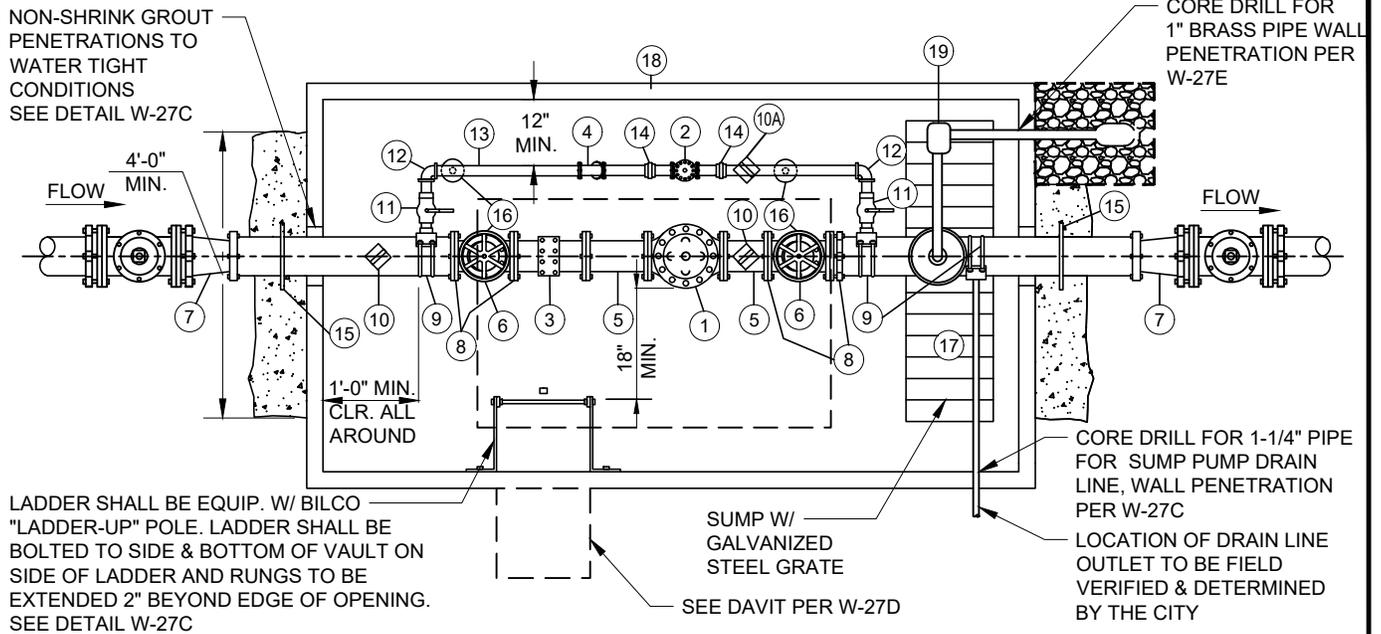
Butterfly Valves/Actuators were quoted from manufacturers with lead times of 30-38 weeks.

Response: The Completion Time provided in BIDDING REQUIREMENTS page A-2 will not be changed at this time. However, the final construction duration may be extended without penalty during the schedule review and approval when actual lead times are determined.

All Bidders must enter the number “3”, on the underlined blank line after “Addendum Number” and fill in the Date on the same line on Page A-2 of bid form under Bidding Requirements section to acknowledge the Bidder’s receipt of Bid Addendum No. 3.

Attachments:

City Standard Details W-27A, W-27B, W-27C, W-27D, and W-27E



PRESSURE REDUCING VALVE (PRV) TOP VIEW

MATERIALS LIST

- | | |
|---|--|
| <p>① PRESSURE REDUCING, EPOXY COATED CLA VAL -VALVE FLxFL. PILOT SYSTEM TO FACE TOWARD CENTER OF VAULT. CITY TO PROVIDE EXACT PRV MODEL & SPECS.</p> <p>② 2" PRESSURE REDUCING VALVE I.P. x I.P PILOT SYSTEM TO FACE TOWARDS CENTER OF VAULT. CITY TO PROVIDE EXACT PRV SPECIFICATIONS</p> <p>③ CLA-VAL H STYLE STRAINER X43H</p> <p>④ 2" WYE STRAINER, 3" AND LARGER USE CLA VAL STYLE H</p> <p>⑤ DI SPOOL (FL)</p> <p>⑥ GATE VALVE (FL) W/HANDWHEEL, KENNEDY OF MUELLER</p> <p>⑦ DI CONCENTRIC REDUCER (FL) INSTALLED TOP FLAT</p> <p>⑧ UNI-FLANGE ADAPTOR</p> <p>⑨ 2" SERVICE SADDLE W/DOUBLE STAINLESS STEEL STRAPS, ROMAC 202-NS</p> <p>⑩A 1/2" BRASS CORP. STOP W/PRESSURE GAUGE (0-100 OR 160 PSI), ROMAC STYLE 360 2" SADDLE W/DOUBLE STAINLESS STEEL STRAPS WITH 1/2" OUTLET</p> | <p>⑩ 1/2" BRASS CORP. STOP W/PRESSURE GAUGE (0-100 OR 160 PSI) 1" SADDLE W/DOUBLE STAINLESS STEEL STRAPS, ROMAC 202-NS</p> <p>⑪ 2" BALL LOCKING VALVE (IP)</p> <p>⑫ 2" 90° BEND (IP): SCH. 40 STAINLESS STEEL</p> <p>⑬ 2" PIPE: SCH. 40 STAINLESS STEEL</p> <p>⑭ 2" UNION: SCH. 40 STAINLESS STEEL</p> <p>⑮ DI PIPE/WALL FLANGE, PER W-27C</p> <p>⑯ ADJUSTABLE PIPE SUPPORT FOR BOTH MAINLINE & BYPASS LINE</p> <p>⑰ INSTALL SUMP PUMP (GCS AUTOMATIC SUMP DRAIN EJECTOR ASSEMBLY MODEL #996633, OR APPROVED EQUAL). TAP FOR SUMP DRAIN ASSEMBLY SHALL BE ON THE HALF SECTION, HORIZONTAL DIRECTION TO THE WATER LINE.</p> <p>⑱ UTILITY VAULT. OLD CASTLE 687-LA OR APPROVED EQUAL</p> <p>⑲ 1-INCH AIR VACUUM RELEASE VALVE ASSEMBLY PER W-27E</p> |
|---|--|

NOTES:

1. THE DESIGN ENGINEER MUST SUBMIT A SPECIFIC DESIGN BASED ON THE TYPICAL LAYOUT FOR EACH INSTALLATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION AND SUBMITTALS FOR ALL MATERIALS.
2. THE REQUIRED PRESSURE REDUCING STATION CAPACITY AND SIZE SHALL BE DETERMINED BY CITY ENGINEER.
3. THE DESIGN ENGINEER TO NOTE FLOW DIRECTON AND PRESSURE SETTING ON THE PLANS.
4. INSIDE DIMENSIONS OF VAULT VARY DEPENDING ON PIPE SIZE. THE DESIGN ENGINEER MUST SPECIFY VAULT SIZE CONSISTENT WITH THE MINIMUM DIMENSIONS SHOWN IN THE DETAILS.
5. THE BYPASS PRV, PIPING, AND FITTINGS MAY BE LARGER THAN 2" AS APPROVED BY THE CITY ENGINEER.
6. LADDER SHALL BE 1'-6" WIDE. LENGTH TO FIT SIZE OF VAULT. SEE DETAILS W-27C.



CITY OF MERCER ISLAND STANDARD DETAILS WATER

PRESSURE REDUCING VALVE (PRV) TOP VIEW

07-01-2021

NO SCALE

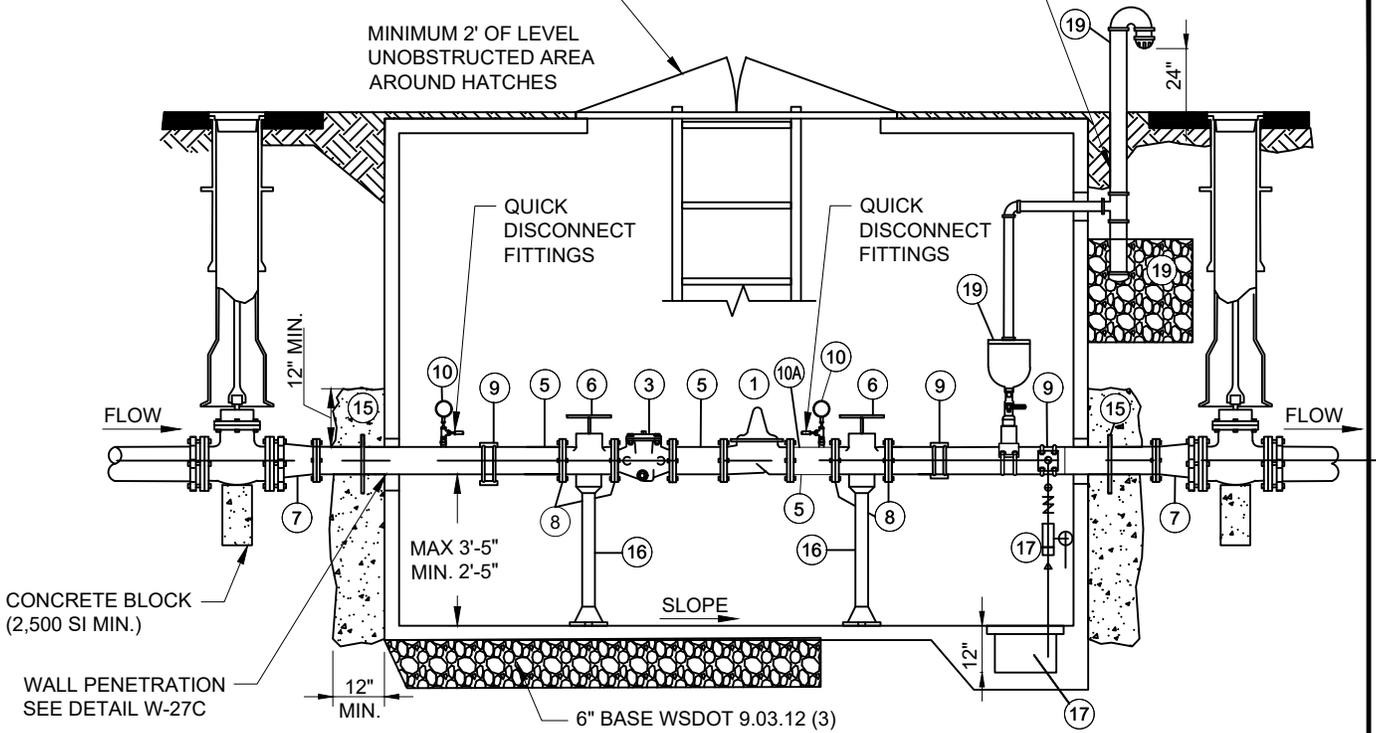
W-27A

APPROVED

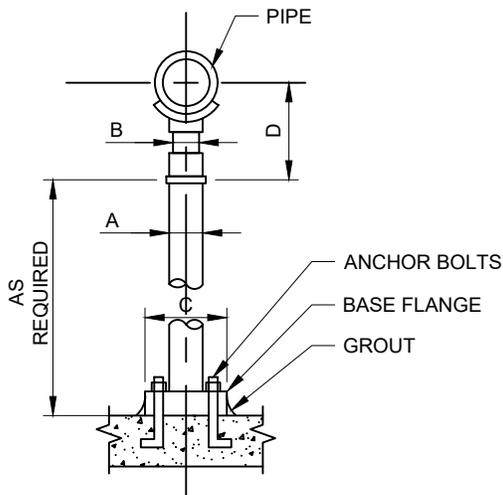
HYDRAULICALLY ASSISTED ALUMINUM DOUBLE DOORS, SELF DRAINING W/ H-20 LOAD & LOCKING HASP

DEPENDING ON SITE SPECIFICS, EXACT LOCATION OF VENT PIPE WILL BE FIELD VERIFIED AND DETERMINED BY CITY ENGINEER.

MINIMUM 2" OF LEVEL UNOBSTRUCTED AREA AROUND HATCHES



PRESSURE REDUCING VALVE (PRV) SIDE VIEW



ADJUSTABLE PIPE SUPPORT

PIPE SIZE	ADJUSTABLE PIPE SUPPORT SCHEDULE (IN INCHES)				
	A	B	C	D	
				MIN.	MAX.
2-1/2	2-1/2	2-1/2	9	8	13
3	2-1/2	1-1/2	9	8-1/4	13-1/4
3-1/2	2-1/2	1-1/2	9	8-1/2	13-1/2
4	3	2-1/2	9	9-1/4	14
5	3	2-1/2	9	10	14-3/4
6	3	2-1/2	9	10-1/2	15-1/4
8	3	2-1/2	9	11-3/4	16-1/2
10	3	2-1/2	9	13-1/2	18-1/4
12	3	2-1/2	9	15	19-3/4
16	6	3-1/2	13-1/2	19-1/2	24

NOTES:

1. MATERIAL LIST AND DESCRIPTIONS PROVIDED ON W-27A



CITY OF MERCER ISLAND STANDARD DETAILS WATER

PRESSURE REDUCING VALVE (PRV) SIDE VIEW

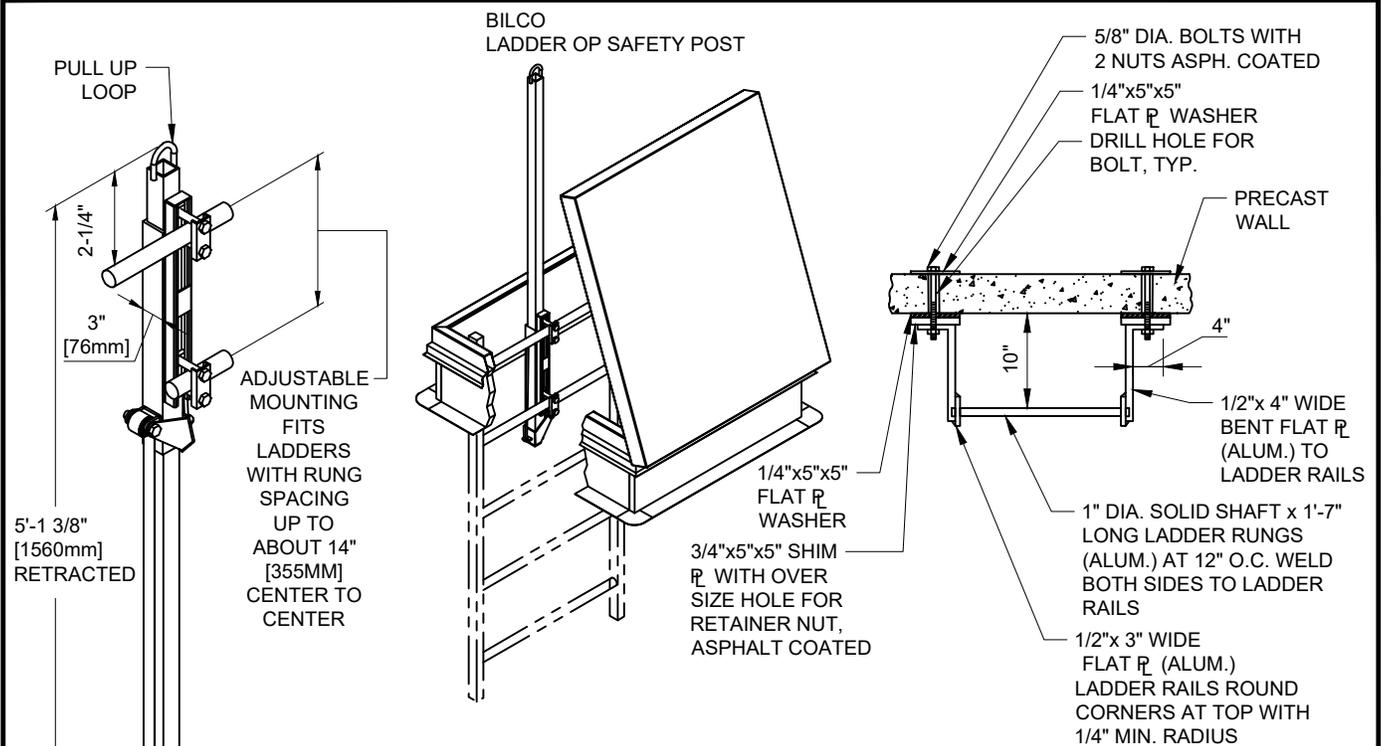
07-01-2021

NO SCALE

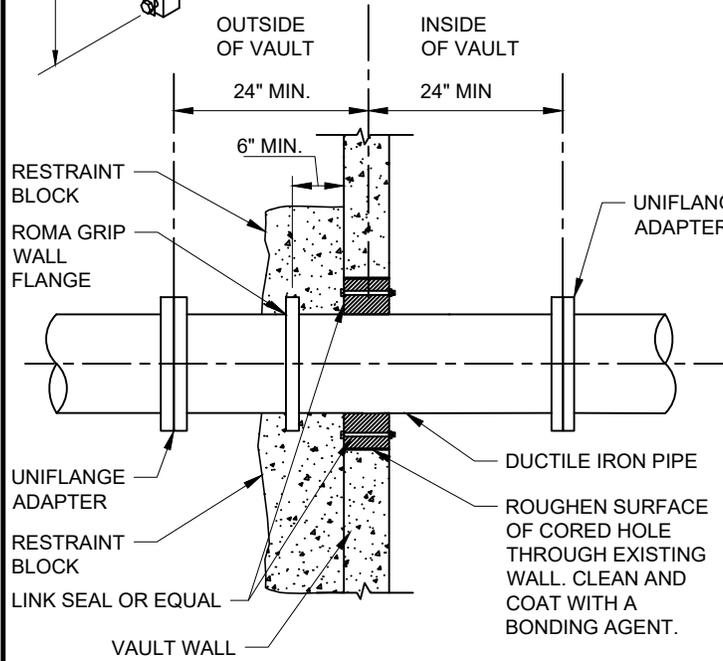
W-27B

REV DATE

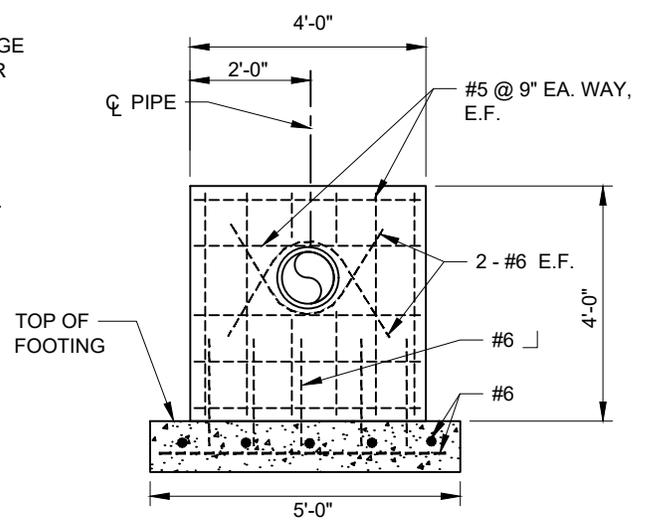
APPROVED



LADDER SECTION AND DETAILS

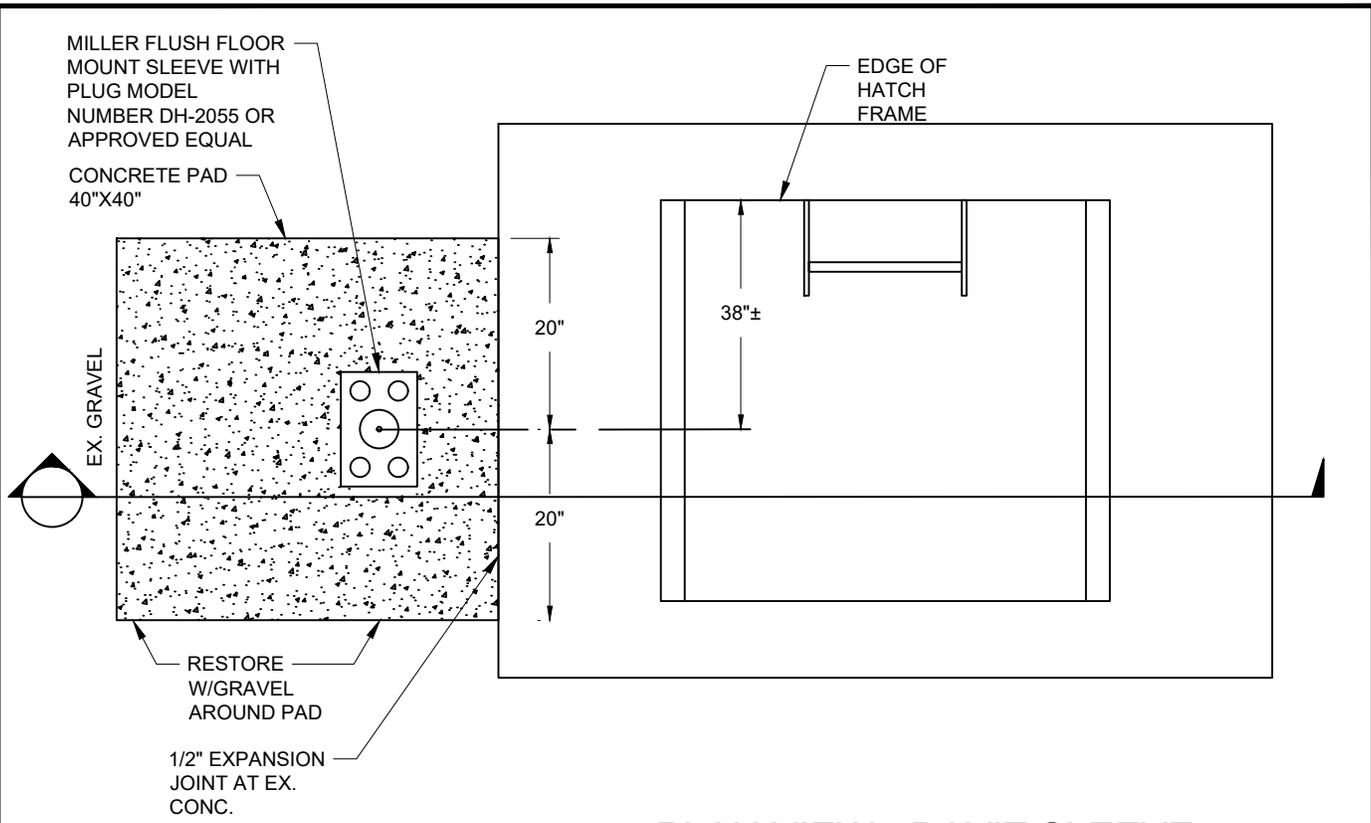


WALL PENETRATION DETAIL (FOR ALL PIPE PENETRATIONS)



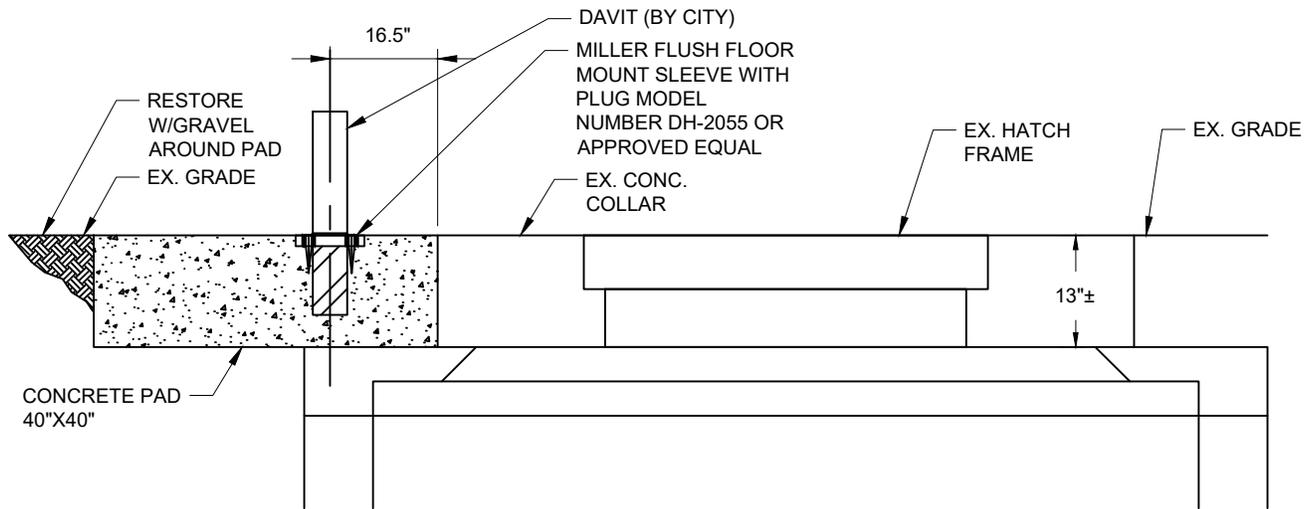
WALL FLANGE DETAIL

	CITY OF MERCER ISLAND STANDARD DETAILS WATER	
	PRESSURE REDUCING VALVE (PRV) LADDER, PIPE PENETRATION, & WALL FLANGE	
07-01-2021	NO SCALE	W-27C
REV DATE		APPROVED



PLAN VIEW - DAVIT SLEEVE

NOT TO SCALE

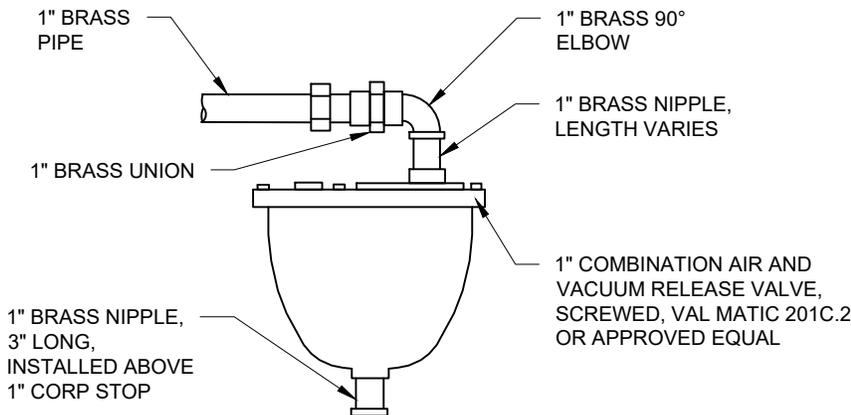
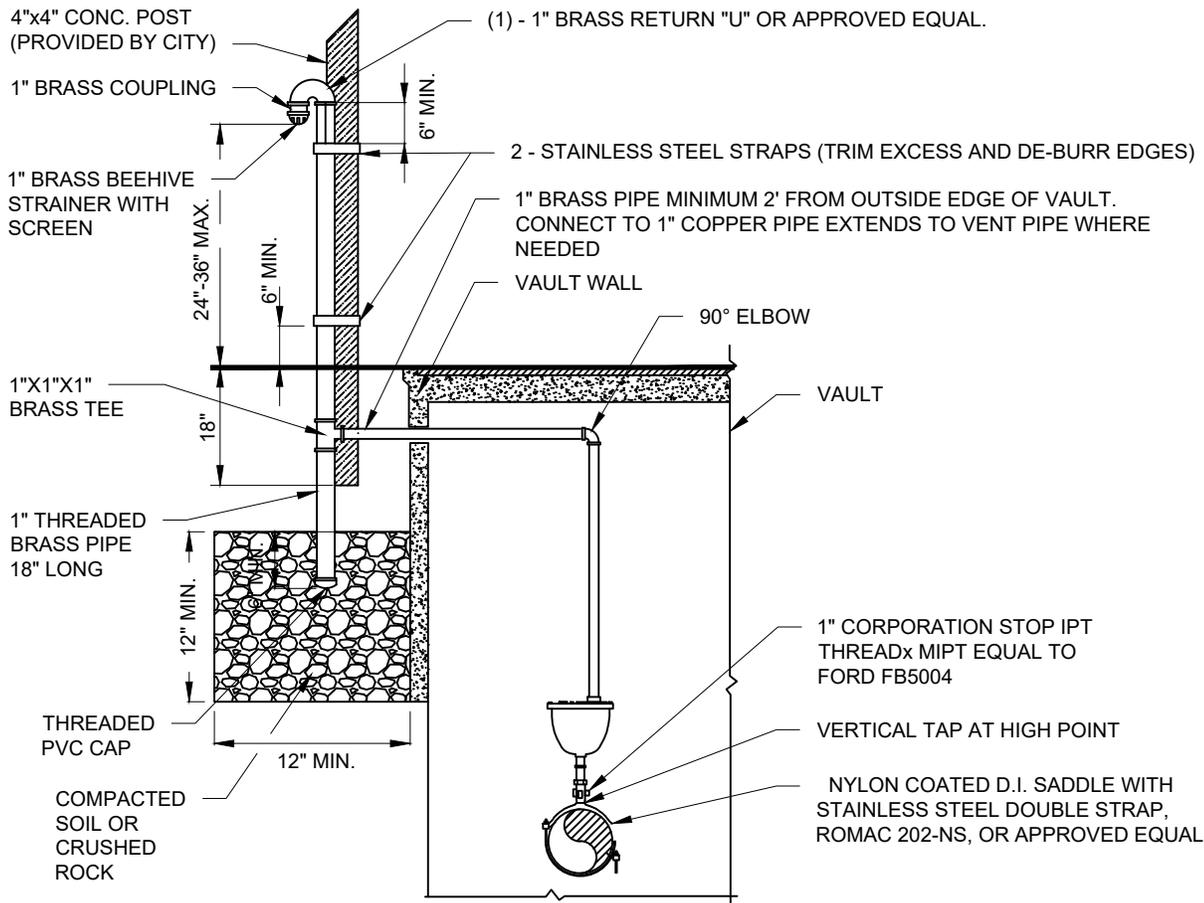


SECTION VIEW - DAVIT SLEEVE

NOT TO SCALE

NOTE:
 DAVIT CONCRETE PAD SHALL BE INSTALLED ON SIDE OF PRV VAULT THAT IS CLEAR OF THE HATCH IN OPEN POSITION. EXACT LOCATION OF THE CONCRETE PAD SHALL BE FIELD VERIFIED AND APPROVED BY CITY ENGINEER.

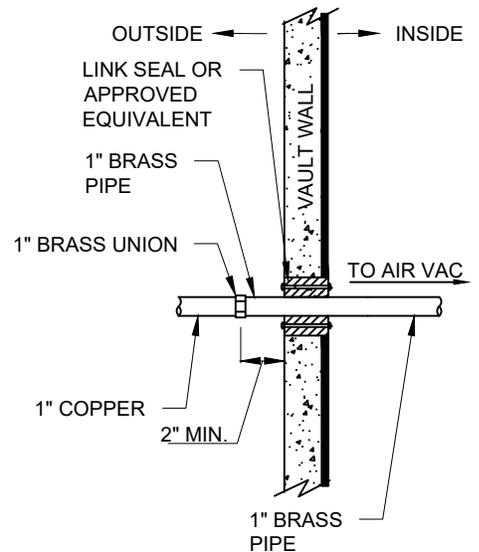
	CITY OF MERCER ISLAND STANDARD DETAILS WATER	
	PRESSURE REDUCING VALVE (PRV) DAVIT	
07-01-2021	NO SCALE	W-27D
REV DATE		APPROVED



VALVE ASSEMBLY DETAIL

NOTES:

1. ALL FITTINGS SHALL BE BRASS, ALL PIPE SHALL BE BRASS OR COPPER, UNLESS OTHERWISE SHOWN.
2. TAP FOR COMBINATION AIR AND VACUUM VALVE ASSEMBLY MUST BE INSTALLED AT HIGHEST POINT OF WATER MAIN. EXACT LOCATION OF ASSEMBLY TO BE DETERMINED BY CITY
3. COPPER LINE MUST MAINTAIN LEVEL GRADE - NO DIPS OR BELLIES.



PIPE PENETRATION AT VAULT WALL DETAIL


CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
 PRESSURE REDUCING VALVE (PRV)
 1" AIR VACUUM VALVE ASSEMBLY INSTALLATION

07-01-2021

NO SCALE

W-27E

REV DATE

APPROVED