

SECTION
NTS

IPS = IRON PIPE SIZE
FIP = FEMALE IRON PIPE THREAD
MIP = MALE IRON PIPE THREAD

NOTES:

1. CORPORATION STOP SERVICE CONNECTIONS SHALL ONLY BE USED FOR SINGLE SERVICES UP TO 2 INCH METER SETTERS AND DOUBLE SERVICES UP TO 1 INCH METER SETTERS. FOR TRIPLE AND QUADRUPLE MANIFOLDS, REFER TO STANDARD DETAIL 701B GATE VALVE SERVICE CONNECTIONS.
2. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
3. ATTACH 12 GAUGE TRACER WIRE TO WATER MAIN TO MAKE ELECTRICALLY CONTINUOUS.
4. SERVICE PIPE SHALL BE BURIED IN PEA GRAVEL.
5. DIRECT TAPPING OF WATER MAIN IS NOT ALLOWED.

CITY OF REDMOND, WASHINGTON

APPROVED BY: RON GRANT
CITY ENGINEER

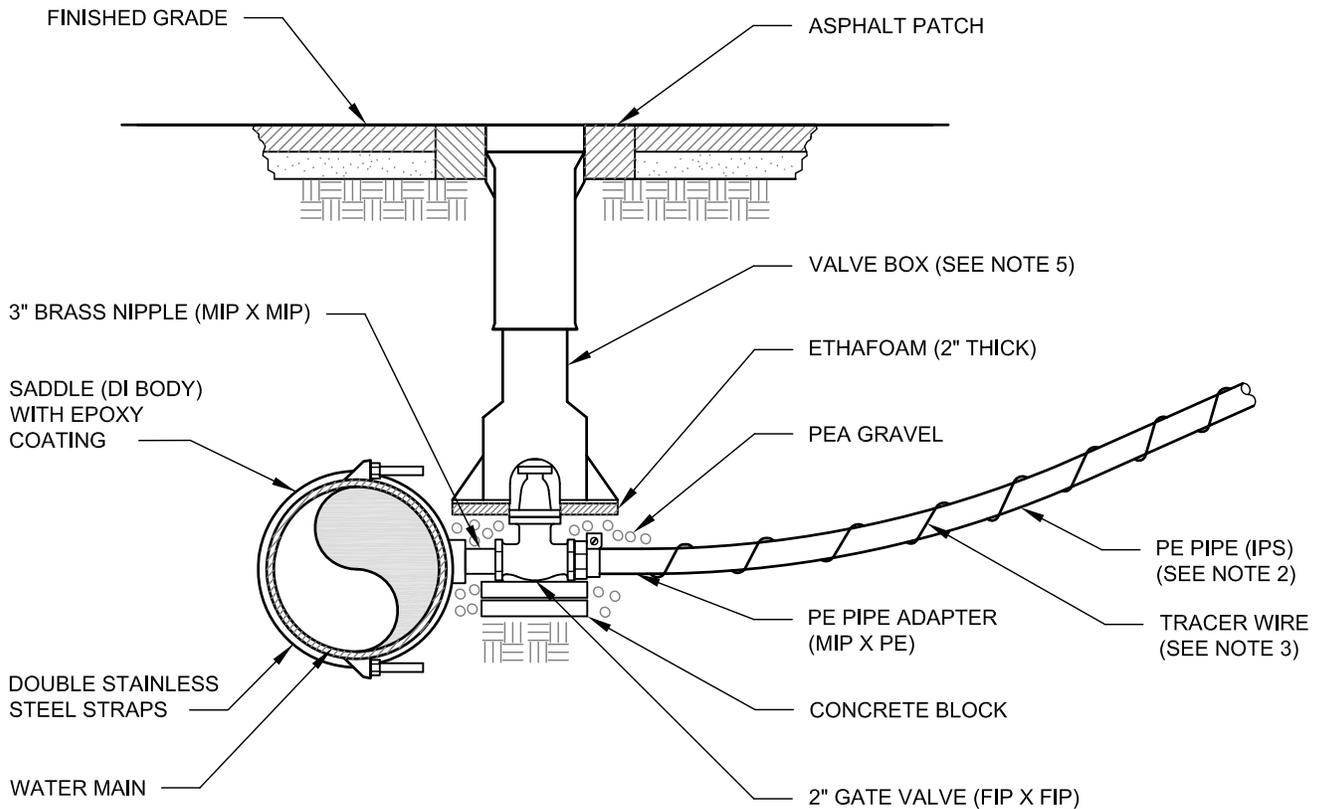
REVISION DATE: MARCH 01, 2010



STANDARD DETAILS

**CORPORATION STOP
SERVICE CONNECTIONS**

FILE NAME: SD701A.DWG | DETAIL NUMBER: **701A**



SECTION
NTS

IPS = IRON PIPE SIZE
FIP = FEMALE IRON PIPE THREAD
MIP = MALE IRON PIPE THREAD

NOTES:

1. GATE VALVE SERVICE CONNECTION SHALL ONLY BE USED FOR TRIPLE OR QUADRUPLE MANIFOLDS. FOR SINGLE AND DOUBLE SERVICES, REFER TO STANDARD DETAIL 701A CORPORATION STOP SERVICE CONNECTIONS.
2. SERVICE CONNECTION PIPE FOR TRIPLE AND QUADRUPLE MANIFOLDS SHALL BE 2" DIAMETER.
3. ATTACH 12 GAUGE TRACER WIRE TO WATER MAIN TO MAKE ELECTRICALLY CONTINUOUS.
4. SERVICE PIPE SHALL BE BURIED IN PEA GRAVEL.
5. VALVE BOX LIDS SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. RAISE LIDS AFTER PAVING TO FINAL GRADE. SEE STANDARD DETAIL 718 FOR VALVE BOX DETAIL.
6. DIRECT TAPPING OF WATER MAIN IS NOT ALLOWED.

CITY OF REDMOND, WASHINGTON

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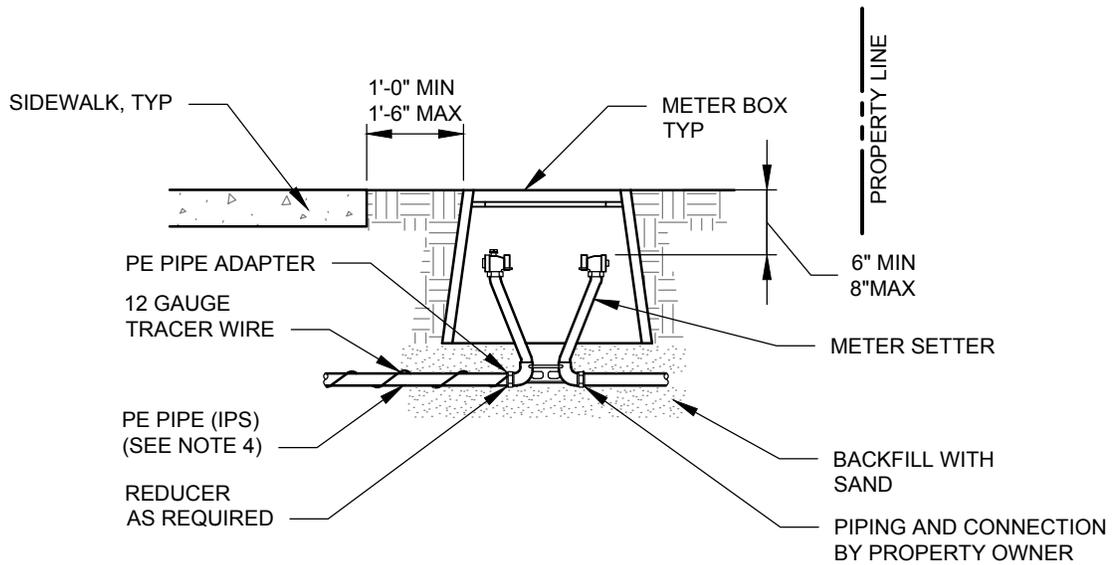
REVISION DATE: MARCH 01, 2010



STANDARD DETAILS

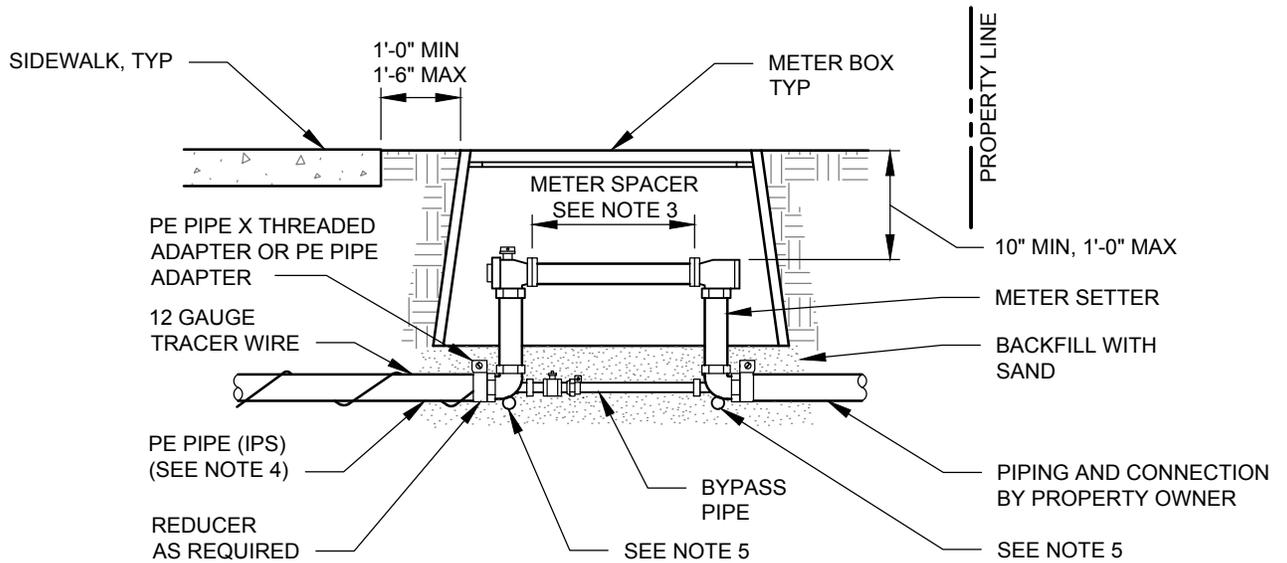
**GATE VALVE
SERVICE CONNECTION**

FILE NAME: SD701B.DWG | DETAIL NUMBER: **701B**



5/8" X 3/4" AND 1" WATER METER

NTS



1-1/2" AND 2" WATER METER

NTS

NOTES:

1. SEE STANDARD DETAIL 701A, 701B, 703, AND 716 FOR ADDITIONAL DETAILS.
2. SET METER BOX FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET METER BOX 2 INCHES ABOVE FINISHED GRADE IF LOCATED IN NON-LAWN AREA.
3. SPACER FOR A 1- 1/2 INCH METER IS 13- 1/4 INCHES IN LENGTH. SPACER FOR A 2 INCH METER IS 17- 1/4 INCHES IN LENGTH. SPACER PROVIDED BY CONTRACTOR.
4. SEE CONSTRUCTION DRAWINGS FOR SERVICE CONNECTION PIPE SIZE.
5. METER SETTER MAY BE HORIZONTAL OR VERTICAL INLET AND OUTLET.
6. ALL FITTINGS SHALL BE BRASS.
7. TOUCHREAD PAD HOLE TO BE DRILLED BY CITY.

CITY OF REDMOND, WASHINGTON

APPROVED BY: RON GRANT
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REVISION DATE: MARCH 01, 2012

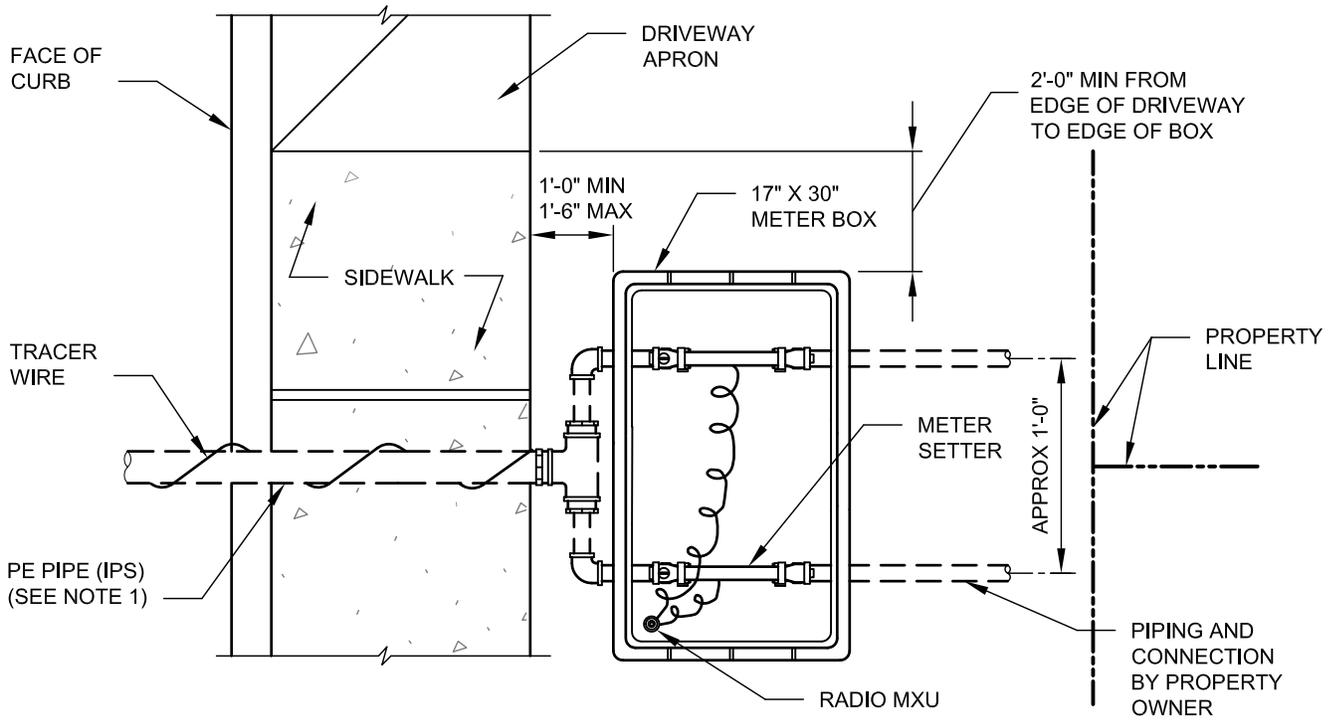


STANDARD DETAILS

**3/4" TO 2" METER
SETTER DETAILS**

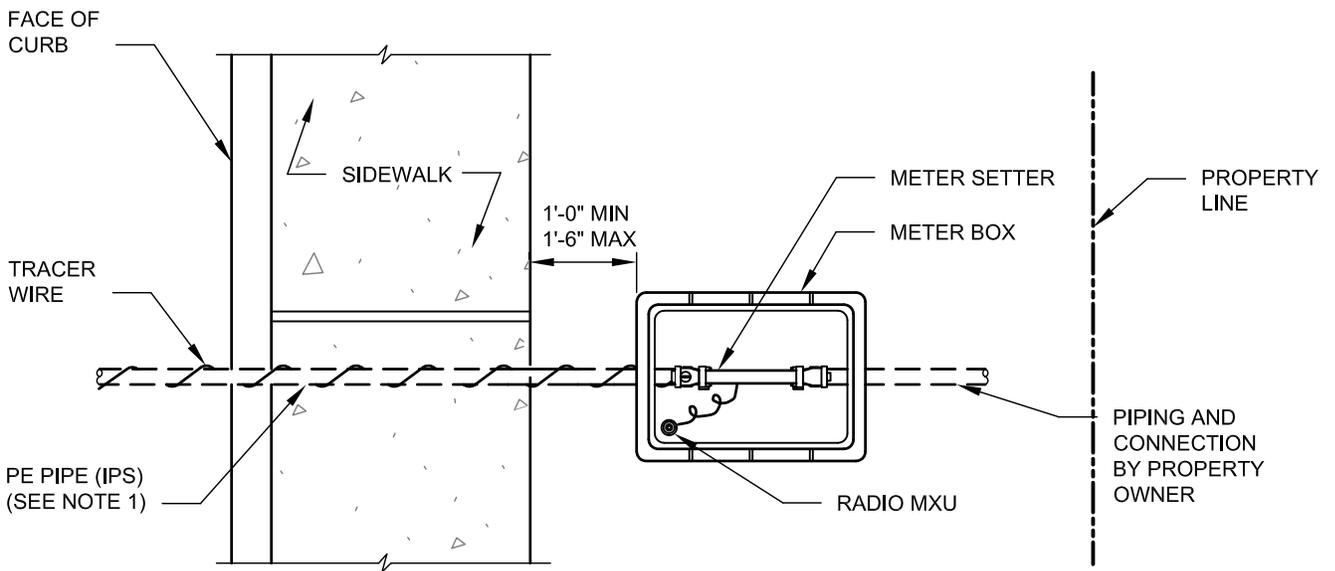
FILE NAME: SD702.DWG

DETAIL NUMBER: **702**



DOUBLE SERVICE

NTS



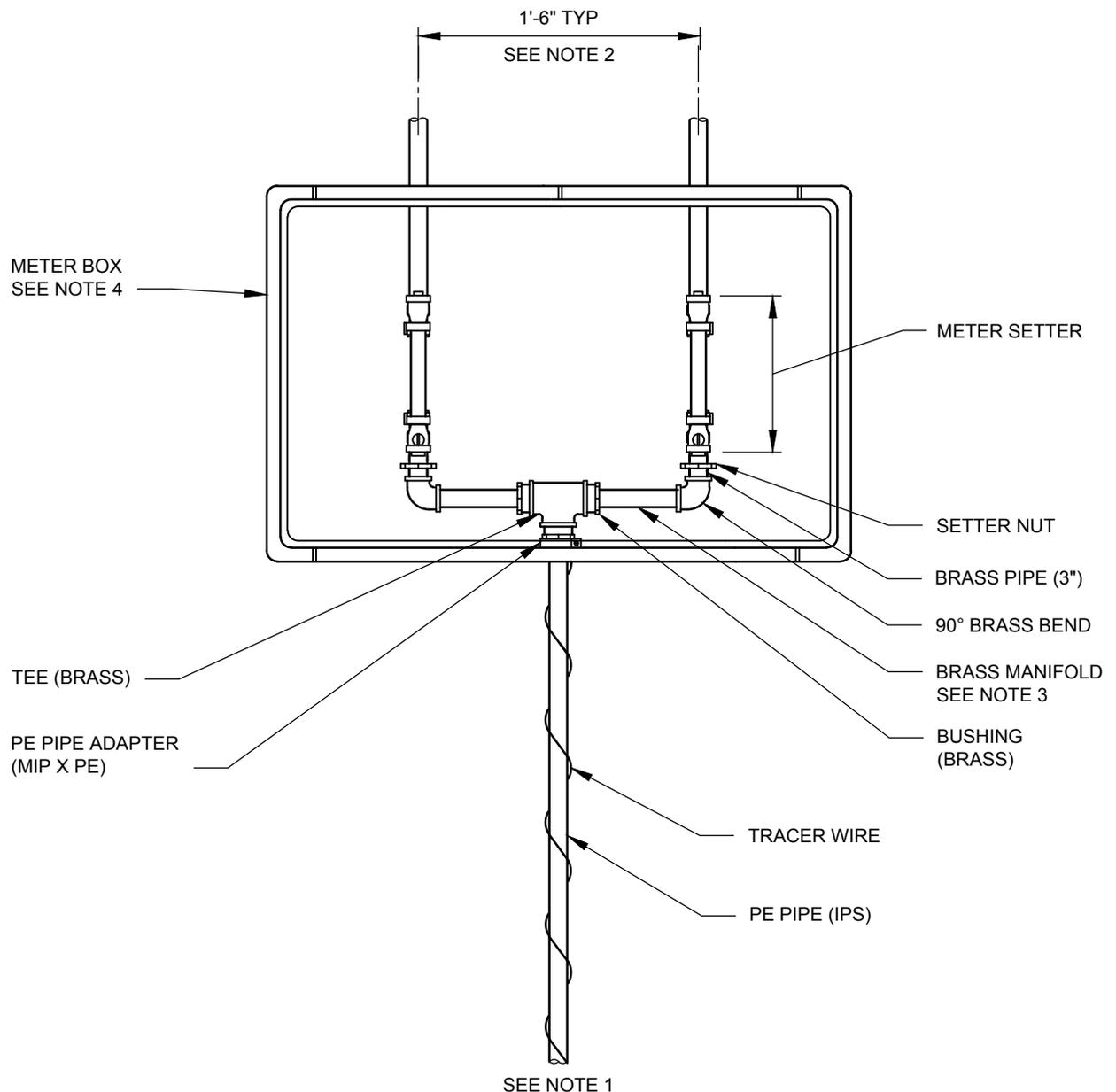
SINGLE SERVICE

NTS

NOTES:

1. SEE THESE DETAILS AND CONSTRUCTION DRAWINGS FOR SERVICE CONNECTION PIPE SIZE. 1- 1/2 INCH AND 2 INCH METERS SHALL BE INSTALLED AS SINGLE SERVICES WITH THE SAME SIZE SERVICE CONNECTION AS THE METER, UNLESS OTHERWISE SHOWN.
2. SEE STANDARD DETAILS 701A, 701B, 702, 703A, 703B AND 703C FOR ADDITIONAL DETAILS.
3. SEE STANDARD DETAIL 716 FOR TYPICAL PLACEMENT IN PLANTER STRIP.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			STANDARD METER LOCATIONS 3/4" TO 2" METERS	
REVISION DATE: MARCH 01, 2010			FILE NAME: SD703.DWG	DETAIL NUMBER: 703



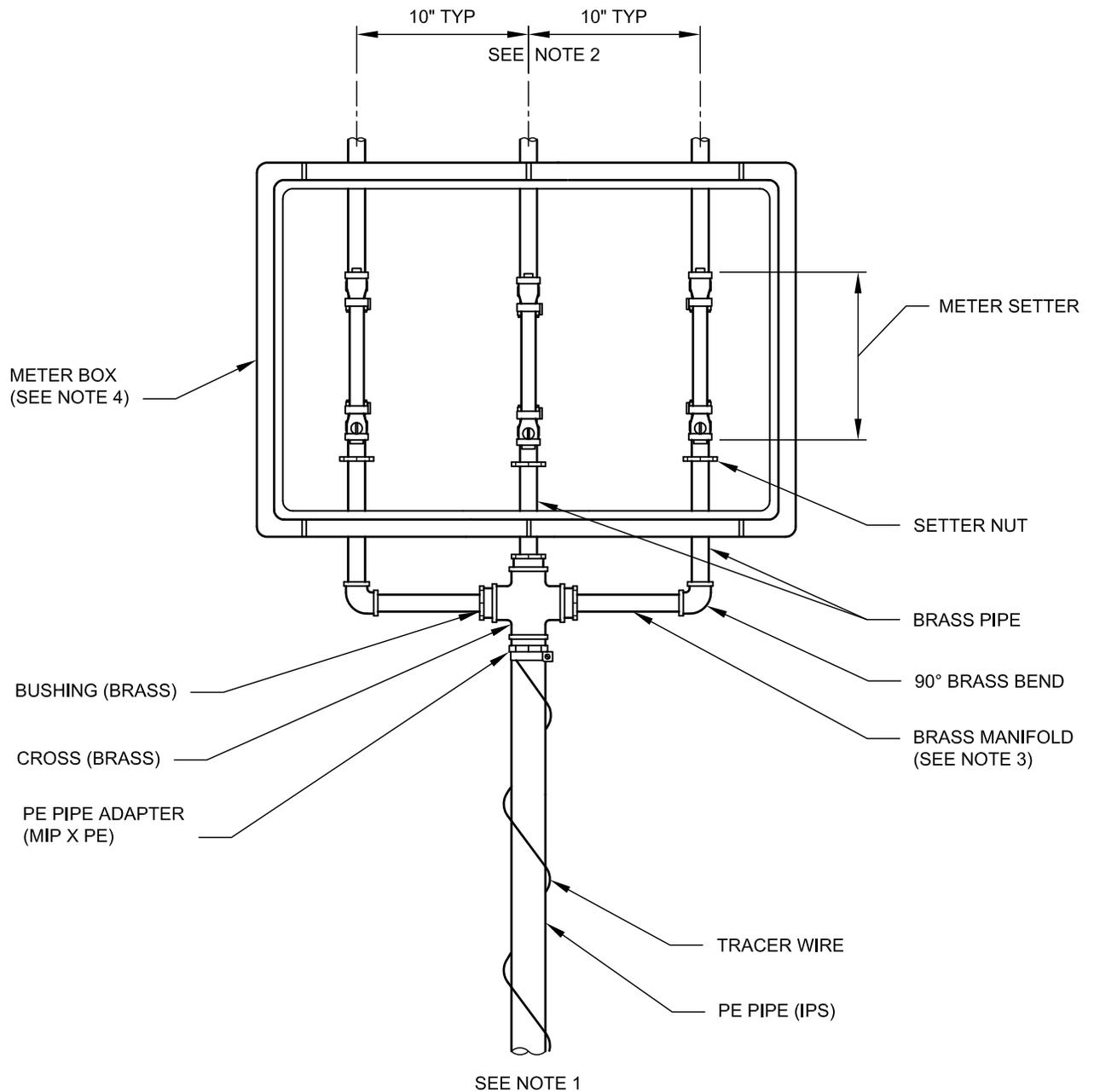
SEE NOTE 1

PLAN
NTS

NOTES:

1. USE CORPORATION STOP CONNECTION. SEE STANDARD DETAIL 701A.
2. FOR 5/8 INCH X 3/4 INCH METER SETTERS, MANIFOLD LENGTH BETWEEN SETTERS SHALL BE 1 FOOT 6 INCHES. FOR 1 INCH METER SETTERS, MANIFOLD LENGTH BETWEEN SETTERS SHALL BE 2 FEET.
3. FOR 5/8 INCH X 3/4 INCH METER SETTERS, MANIFOLD SIZE SHALL BE 3/4 INCH FROM BUSHING AT TEE. FOR 1 INCH METER SETTERS, MANIFOLD SIZE SHALL BE 1 INCH FROM BUSHING AT TEE.
4. FOR 5/8 INCH X 3/4 INCH METER SETTERS, USE ONE 17" X 30" METER BOX AS SHOWN. FOR ONE INCH METER SETTERS, USE INDIVIDUAL METER BOXES SIMILAR TO THE SINGLE SERVICE DETAIL 703.
5. THE METER BOX SHALL BE CENTERED OVER THE METER SETTER ASSEMBLY AS SHOWN.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			DOUBLE SERVICE MANIFOLD	
REVISION DATE: MARCH 01, 2012	City of Redmond WASHINGTON		FILE NAME: SD703A.DWG	DETAIL NUMBER: 703A

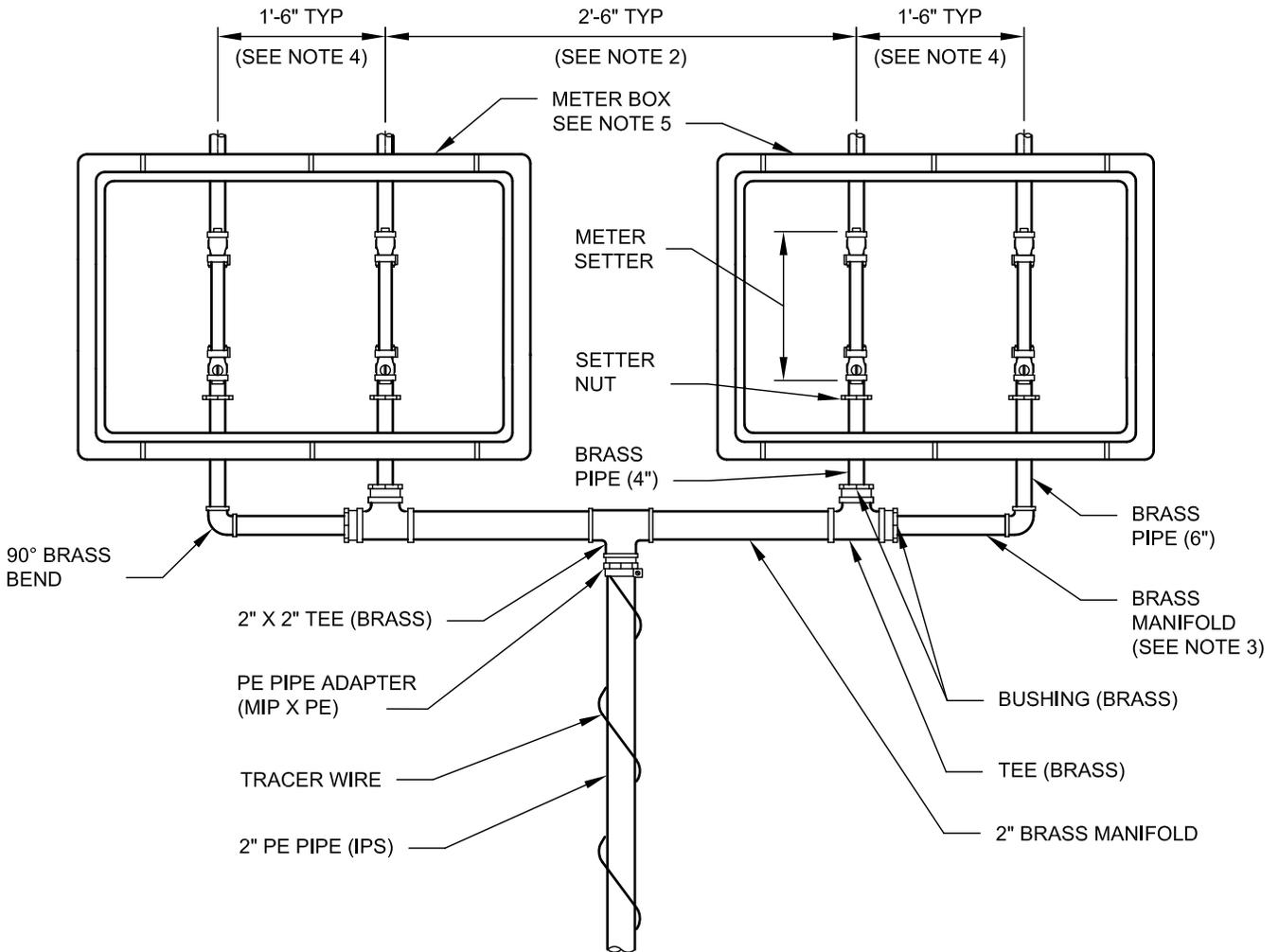


PLAN
NTS

NOTES:

1. USE GATE VALVE SERVICE CONNECTION. SEE STANDARD DETAIL 701B.
2. FOR 5/8 INCH X 3/4 INCH METER SETTERS, MANIFOLD LENGTH BETWEEN SETTERS SHALL BE 10 INCHES. FOR 1 INCH METER SETTERS, MANIFOLD LENGTH BETWEEN SETTERS SHALL BE 24 INCHES.
3. FOR 5/8 INCH X 3/4 INCH METER SETTERS, MANIFOLD SIZE SHALL BE 3/4 INCH FROM BUSHING AT CROSS. FOR 1 INCH METER SETTERS, MANIFOLD SIZE SHALL BE 1 INCH FROM BUSHING AT CROSS.
4. FOR 5/8 INCH X 3/4 INCH METER SETTERS, USE 1- 17 INCH X 30 INCH METER BOX AS SHOWN. FOR 1 INCH METER SETTERS, USE INDIVIDUAL METER BOXES SIMILAR TO THE SINGLE SERVICE STANDARD DETAIL 703.
5. THE METER BOX SHALL BE CENTERED OVER THE SETTER ASSEMBLY AS SHOWN.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			TRIPLE SERVICE MANIFOLD	
REVISION DATE: JUNE 01, 2013	City of Redmond WASHINGTON		FILE NAME: SD703B.DWG	DETAIL NUMBER: 703B



SEE NOTE 1

PLAN
NTS

NOTES:

1. USE GATE VALVE SERVICE CONNECTION. SEE STANDARD DETAIL 701B.
2. FOR 5/8 INCH X 3/4 INCH METER SETTERS, 2 INCH MANIFOLD LENGTH BETWEEN SETTERS SHALL BE 30 INCHES. FOR 1 INCH METER SETTERS, 2 INCH MANIFOLD LENGTH BETWEEN SETTERS SHALL BE 24 INCHES.
3. FOR 5/8 INCH X 3/4 INCH METER SETTERS, MANIFOLD SIZE SHALL BE 3/4 INCH FROM BUSHING AT TEE. FOR 1 INCH METER SETTERS, MANIFOLD SIZE SHALL BE 1 INCH FROM BUSHING AT TEE.
4. FOR 5/8 INCH X 3/4 INCH METER SETTERS, MANIFOLD LENGTH BETWEEN SETTERS SHALL BE 18 INCHES. FOR 1 INCH METER SETTERS, MANIFOLD LENGTH BETWEEN SETTERS SHALL BE 18 INCHES.
5. FOR 5/8 INCH X 3/4 INCH METER SETTERS, USE 2- 17 INCH X 30 INCH METER BOXES AS SHOWN. FOR 1 INCH METER SETTERS, USE INDIVIDUAL METER BOXES SIMILAR TO THE SINGLE SERVICE STANDARD DETAIL 703.
6. THE METER BOXES SHALL BE CENTERED OVER THE METER SETTER ASSEMBLIES AS SHOWN.

CITY OF REDMOND, WASHINGTON

APPROVED BY: RON GRANT
CITY ENGINEER

REVISION DATE: MARCH 01, 2010



STANDARD DETAILS

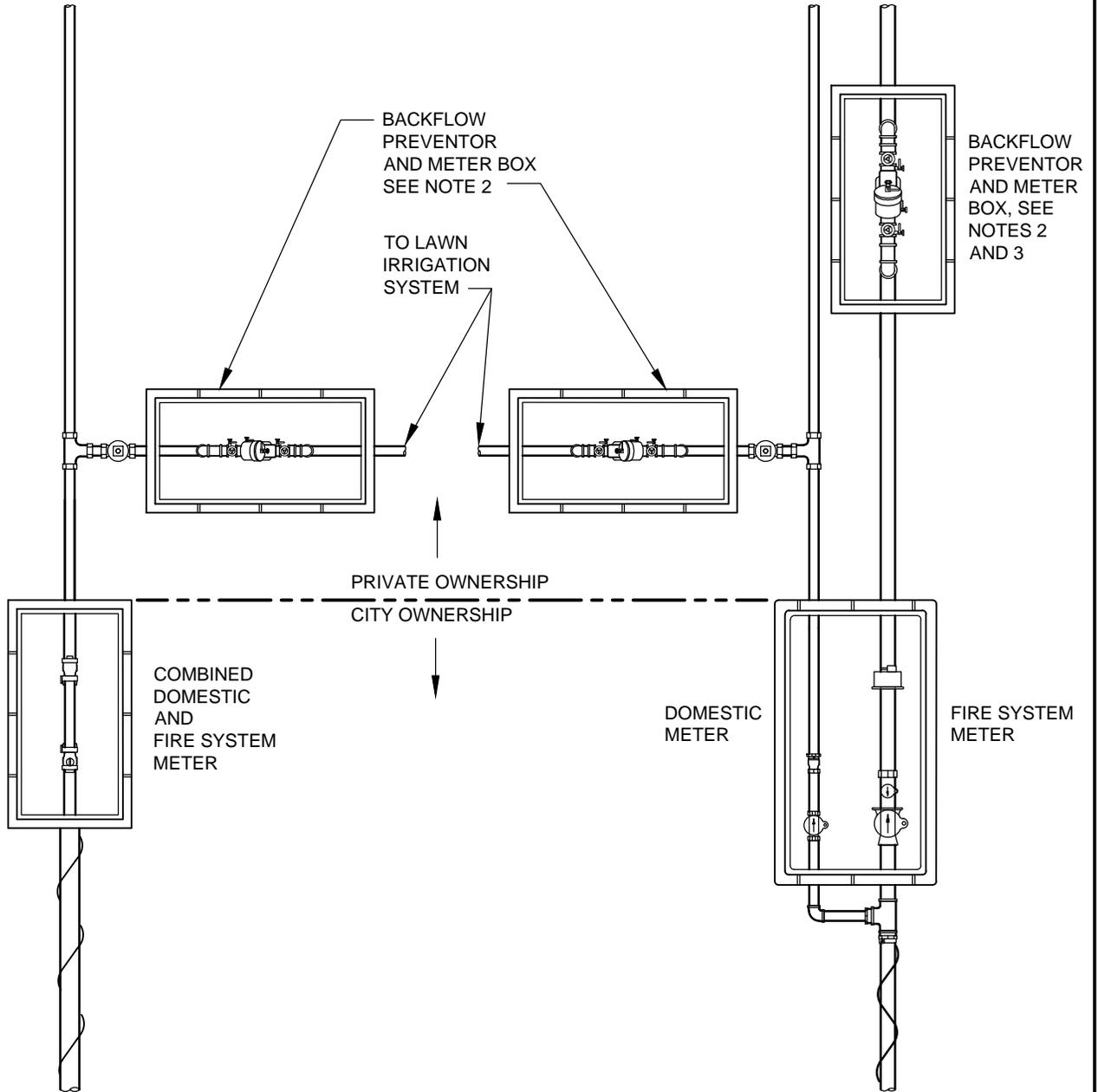
**QUADRUPLE SERVICE
MANIFOLD**

FILE NAME: SD703C.DWG | DETAIL NUMBER: **703C**

TO COMBINED DOMESTIC
AND FIRE SPRINKLER
SYSTEM (FLOW-THROUGH)
SEE NOTE 3

TO
DOMESTIC
WATER
SYSTEM

TO FIRE
SPRINKLER
SYSTEM



**SINGLE METER
ALTERNATIVE**

NTS

**DOUBLE METER
ALTERNATIVE**

NTS

NOTES:

1. SEE STANDARD DETAILS 701A, 701B, 702, 703, AND 704A FOR ADDITIONAL DETAILS.
2. SEE STANDARD DETAIL 711 FOR ADDITIONAL INFORMATION ON BACKFLOW PREVENTORS (BFP).
3. AN APPROVED BACKFLOW PREVENTOR IS REQUIRED FOR ALL FIRE SPRINKLER SYSTEMS EXCEPT APPROVED FLOW-THROUGH SYSTEMS. BFPS SHALL BE LOCATED DOWNSTREAM IN THE BUILDING OR ADJACENT TO THE FIRE SYSTEM METER BOX.

CITY OF REDMOND, WASHINGTON

APPROVED BY: RON GRANT
CITY ENGINEER

REVISION DATE: MARCH 01, 2012

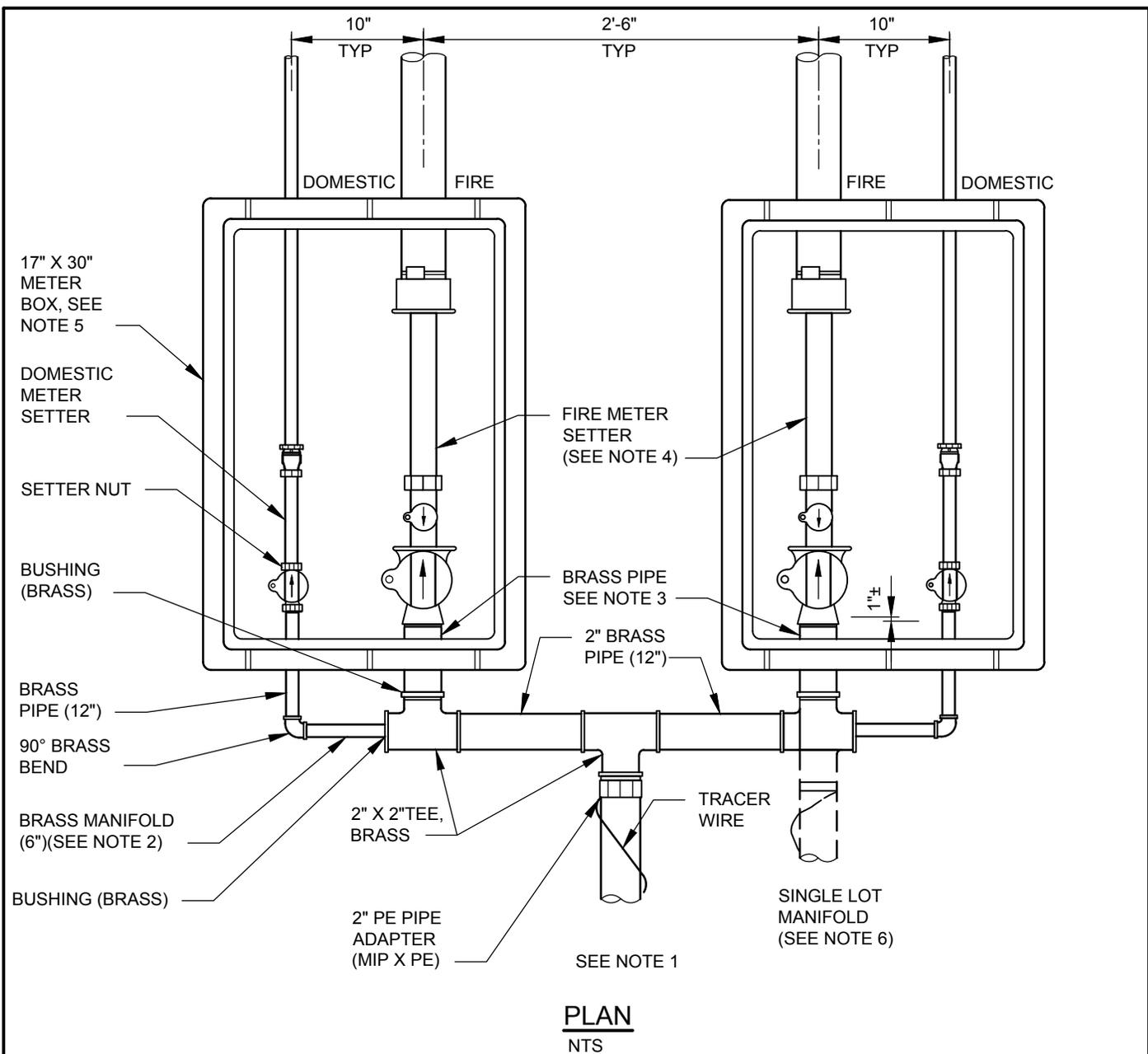


STANDARD DETAILS

RESIDENTIAL FIRE
SPRINKLER DETAILS

FILE NAME: SD704.DWG

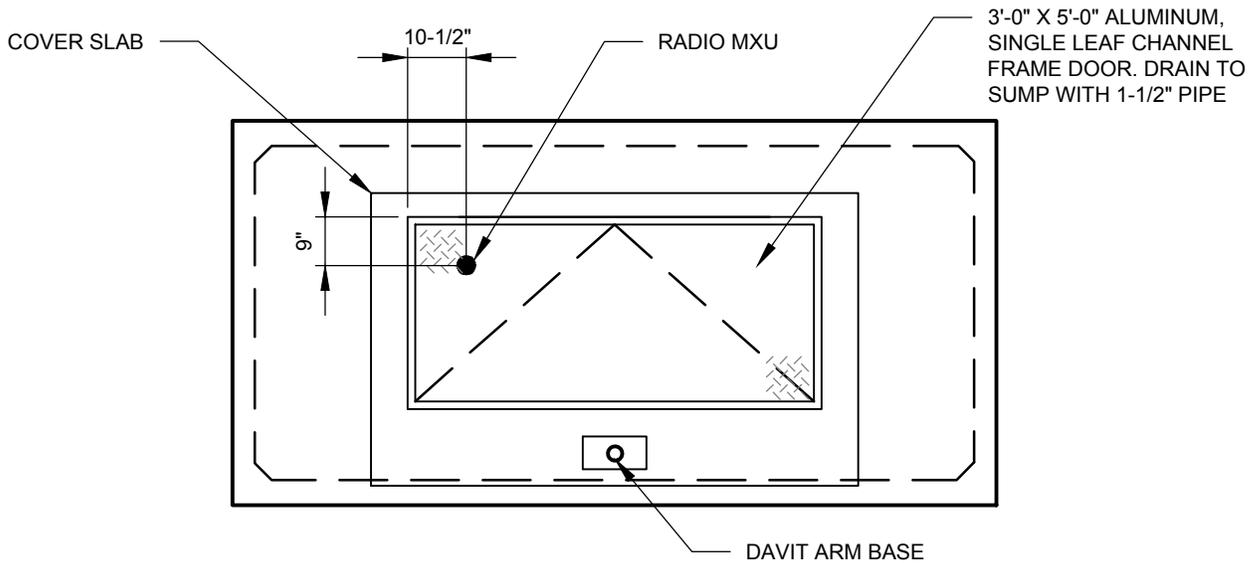
DETAIL NUMBER: 704



NOTES:

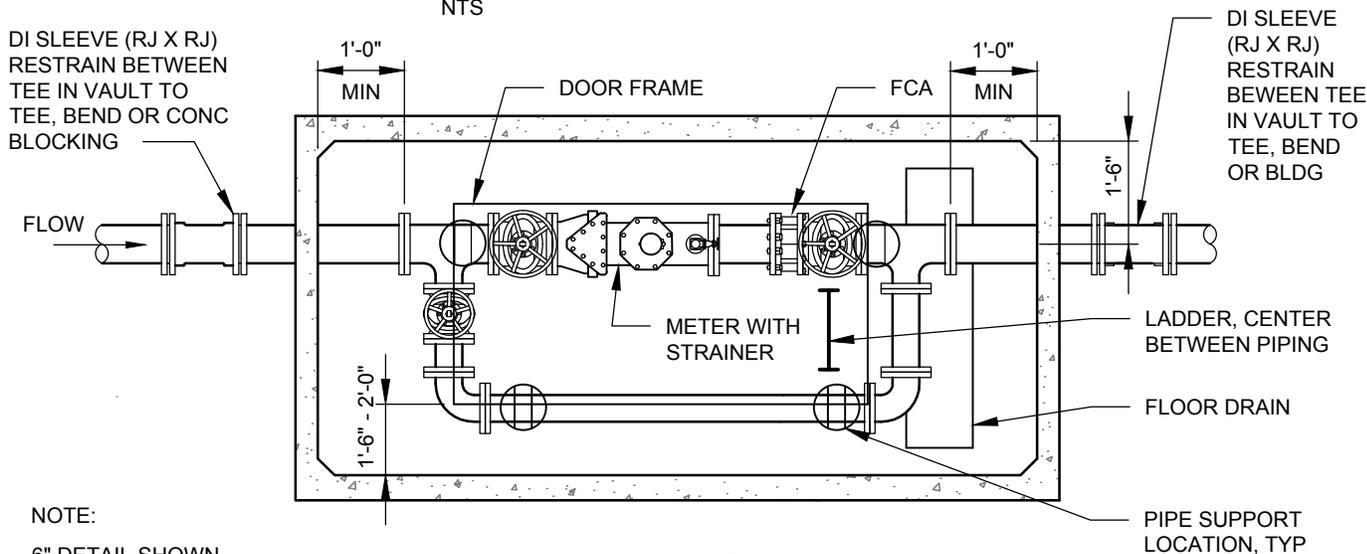
1. USE CORPORATION STOP CONNECTION. SEE STANDARD DETAIL 701A.
2. FOR 5/8 INCH X 3/4 INCH DOMESTIC METER SETTERS, MANIFOLD SIZE SHALL BE 3/4 INCH FROM BUSHING AT TEE. FOR 1 INCH DOMESTIC METER SETTERS, MANIFOLD SIZE SHALL BE 1 INCH FROM BUSHING AT TEE.
3. FOR 1 INCH FIRE METER SETTER, BRASS PIPE SHALL BE 12 INCHES LONG. FOR 1-1/2 INCH FIRE METER SETTER, BRASS PIPE SHALL BE 6 INCHES LONG.
4. FIRE METER SETTERS FOR VACANT LOTS SHALL BE INSTALLED AS 1-1/2 INCH METER SETTERS. IF FIRE SPRINKLER DESIGNS HAVE BEEN APPROVED UTILIZING SMALLER SETTERS, THE SETTER SIZE MAY BE REDUCED. USE APPROPRIATE SIZED BUSHING AND BRASS PIPE FROM TEE.
5. THE METER BOXES SHALL BE CENTERED OVER THE METER SETTER ASSEMBLIES AS SHOWN.
6. FOR A SINGLE LOT MANIFOLD, ROTATE 2 INCH TEE AT FIRE METER SETTER AND CONNECT WATER SUPPLY TO THIS TEE. USE CORPORATION STOP CONNECTION. SEE STANDARD DETAIL 701A.
7. AN APPROVED BACKFLOW PREVENTOR IS REQUIRED FOR ALL FIRE SPRINKLER SYSTEMS EXCEPT APPROVED FLOW-THROUGH SYSTEMS. BFPS SHALL BE LOCATED DOWNSTREAM IN THE BUILDING OR ADJACENT TO THE FIRE SYSTEM METER BOX.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS
APPROVED BY: RON GRANT CITY ENGINEER	DOMESTIC AND FIRE SPRINKLER MANIFOLD		
REVISION DATE: MARCH 01, 2012	FILE NAME: SD704A.DWG		DETAIL NUMBER: 704A



PLAN VIEW WITH COVER SLAB

NTS



NOTE:
6" DETAIL SHOWN

PLAN VIEW OF EQUIPMENT

NTS

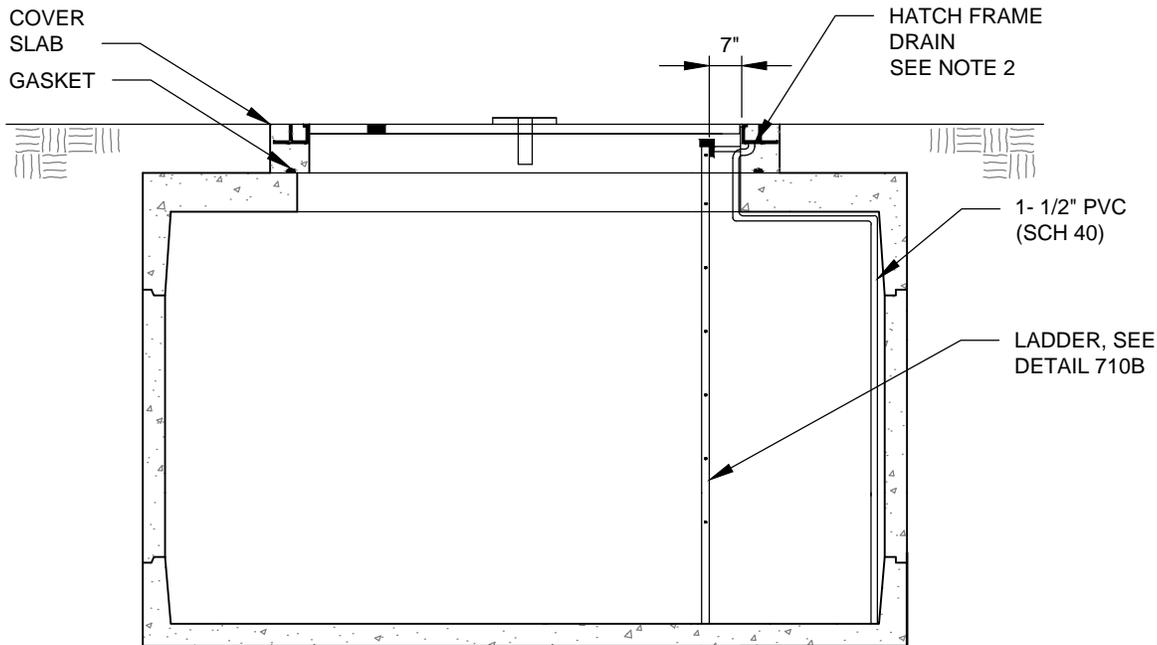
VAULT, FITTINGS AND PIPING SIZING REQUIREMENTS						UTILITY VAULT NO. *
METER SIZE	BYPASS VALVES AND PIPING	BYPASS TEE (FL X FL)	MIN INSIDE VAULT DIM			
			LEN	WIDTH	HT	
3"	3"	3" X 3"	10 FT	6 FT	6 FT	810 - LA
4"	4"	4" X 4"	10 FT	6 FT	6 FT	810 - LA
6"	4"	6" X 4"	12 FT	6 FT	6 FT	810 - LA

* OR APPROVED EQUAL

NOTES:

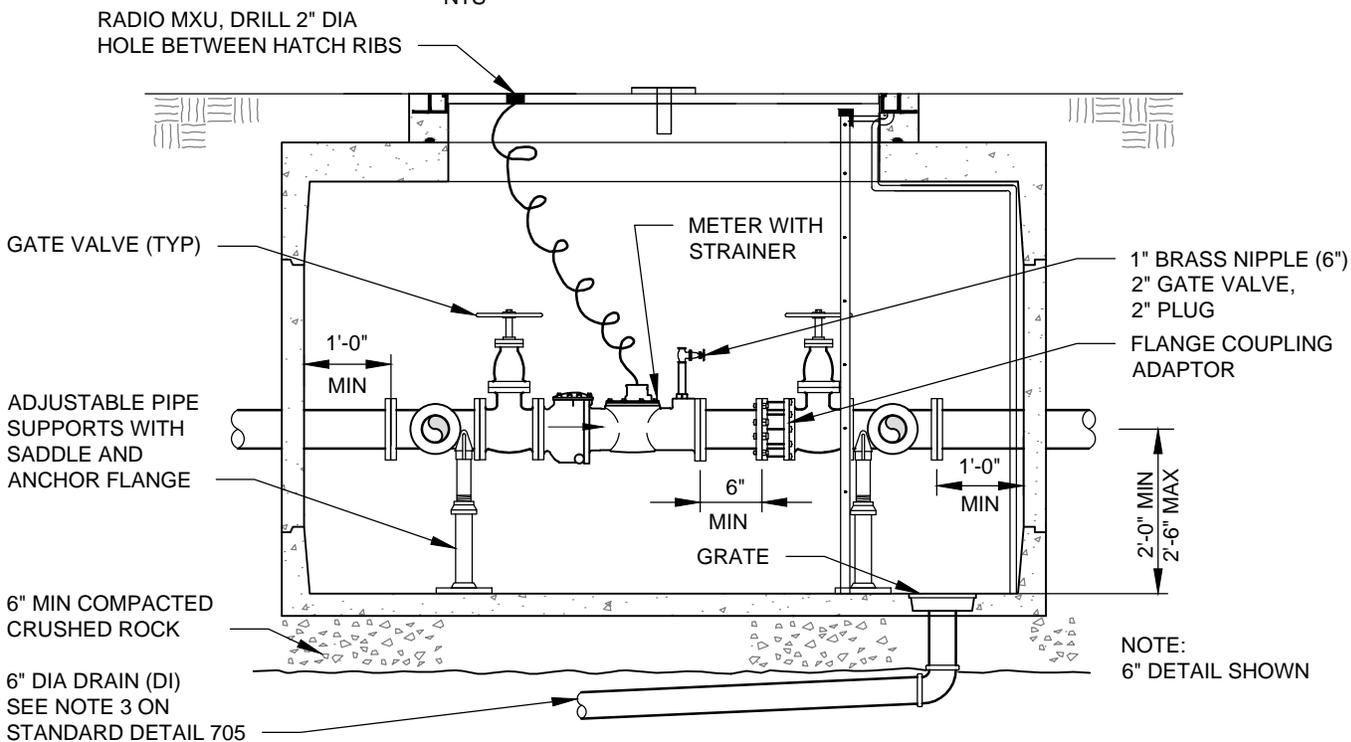
1. VAULT ACCESS HATCH SHALL BE DRILLED FOR INSTALLATION OF RADIO MXU.
2. METER SHALL BE OBTAINED BY THE CONTRACTOR FROM THE SUPPLIER AND DELIVERED TO CITY MAINTENANCE OPERATIONS CENTER FOR STORAGE UNTIL INSTALLATION. WHEN METER APPLICATION IS APPROVED FOR INSTALLATION, INCLUDING PAYMENT OF CONNECTION FEES, THE CONTRACTOR SHALL RETRIEVE AND INSTALL METER.
3. A GRAVITY VAULT DRAIN (DI) SHALL BE CONNECTED TO STORM SYSTEM AS SHOWN ON THE DRAWINGS.
4. PAINT ALL EXPOSED PIPING AND FITTINGS INSIDE VAULT, EXCEPT METER BODY.
5. CENTER PIPING UNDER HATCH OPENING.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			WATER METER PLAN VIEW 3", 4", 6" METER DETAILS	
REVISION DATE: MARCH 01, 2012		CityofRedmond WASHINGTON	FILE NAME: SD705.DWG	DETAIL NUMBER: 705



SECTION WITH COVER SLAB

NTS



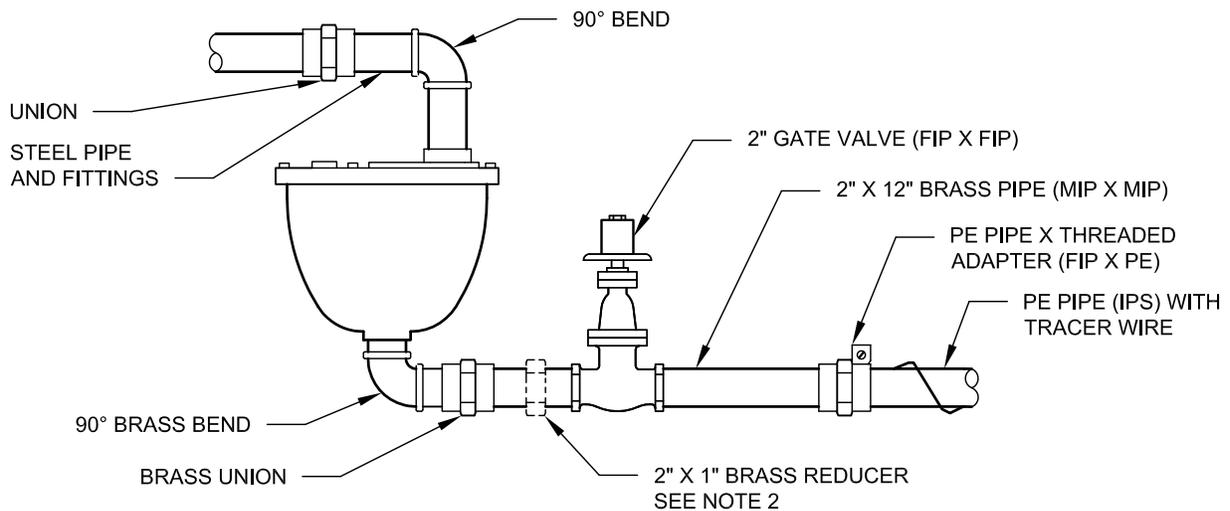
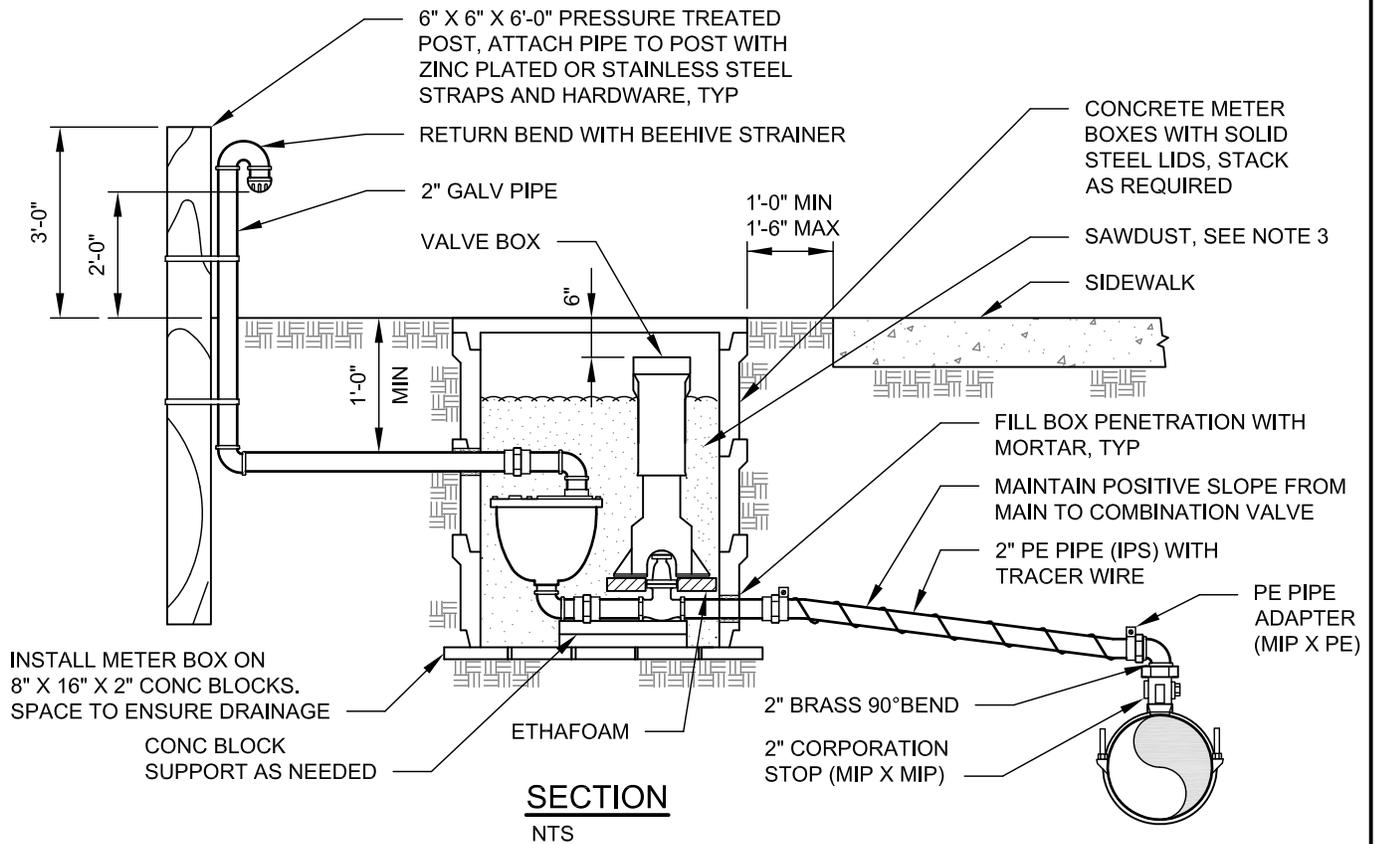
SECTION OF EQUIPMENT

NTS

NOTES:

1. SET COVER SLAB FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET COVER SLAB APPROXIMATELY 2" ABOVE FINISHED GRADE IF LOCATED IN LANDSCAPING AREA.
2. HATCH FRAME DRAIN CAST IN CONCRETE SHALL BE 1 - 1/2" BRASS. REMAINDER OF HATCH FRAME DRAIN SHALL BE 1 - 1/2" SCH 40 PVC IN VAULT. USE 45° BENDS WHERE POSSIBLE AND PROVIDE UNIONS TO ALLOW DISASSEMBLY OF PIPING. ATTACH TO VAULT WITH STAINLESS STEEL HARDWARE.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			WATER METER SECTIONS 3", 4", 6" METER DETAILS	
REVISION DATE: MARCH 01, 2012	City of Redmond WASHINGTON		FILE NAME: SD705A.DWG	DETAIL NUMBER: 705A



NOTES:

1. COMBINATION AIR RELEASE AND VACUUM VALVE SHALL BE A 2 INCH SIZE MINIMUM - UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
2. FOR 1 INCH COMBINATION VALVE, INSTALL 2 INCH X 1 INCH REDUCER BETWEEN GATE VALVE AND UNION.
3. FILL METER BOX WITH SAWDUST AFTER TESTING AND INSPECTION.
4. INSTALL STANDARD MARKER POST IDENTIFYING VALVE LOCATION (NOT SHOWN).
5. SET METER BOX FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET METER BOX APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF IN LANDSCAPED AREA.

CITY OF REDMOND, WASHINGTON

APPROVED BY: RON GRANT
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REVISION DATE: MARCH 01, 2010

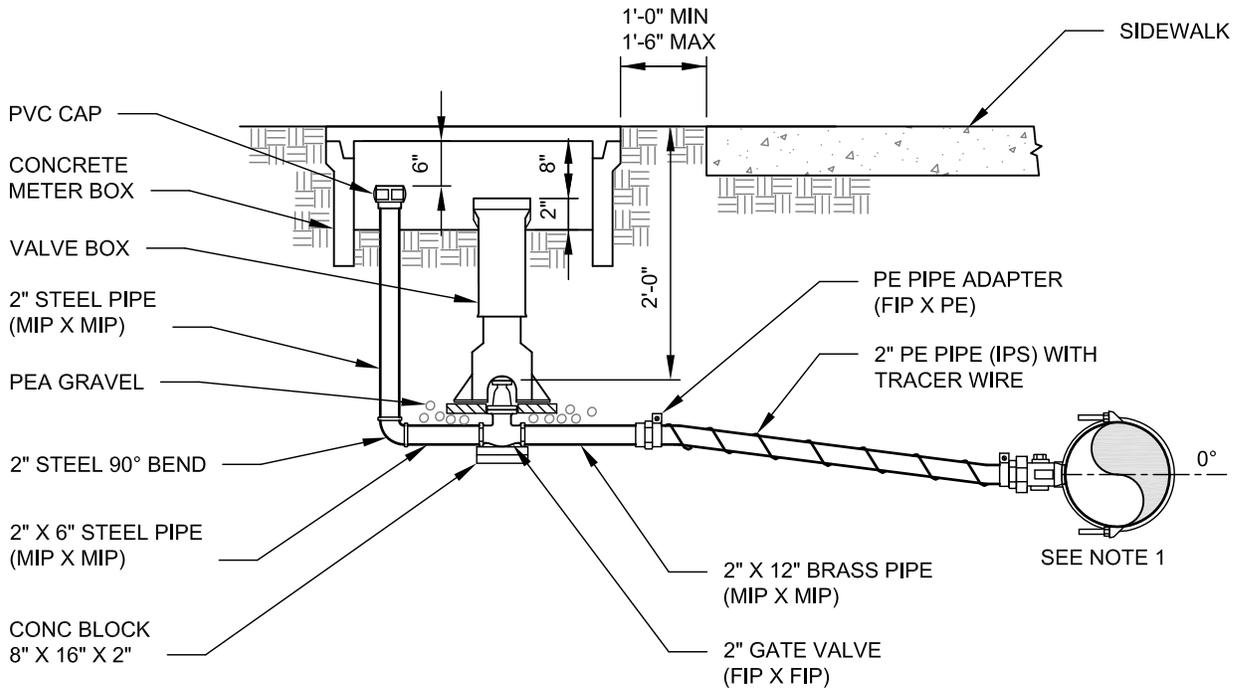


STANDARD DETAILS

**COMBINATION AIR RELEASE AND
VACUUM VALVE ASSEMBLY**

FILE NAME: SD706.DWG

DETAIL NUMBER: **706**

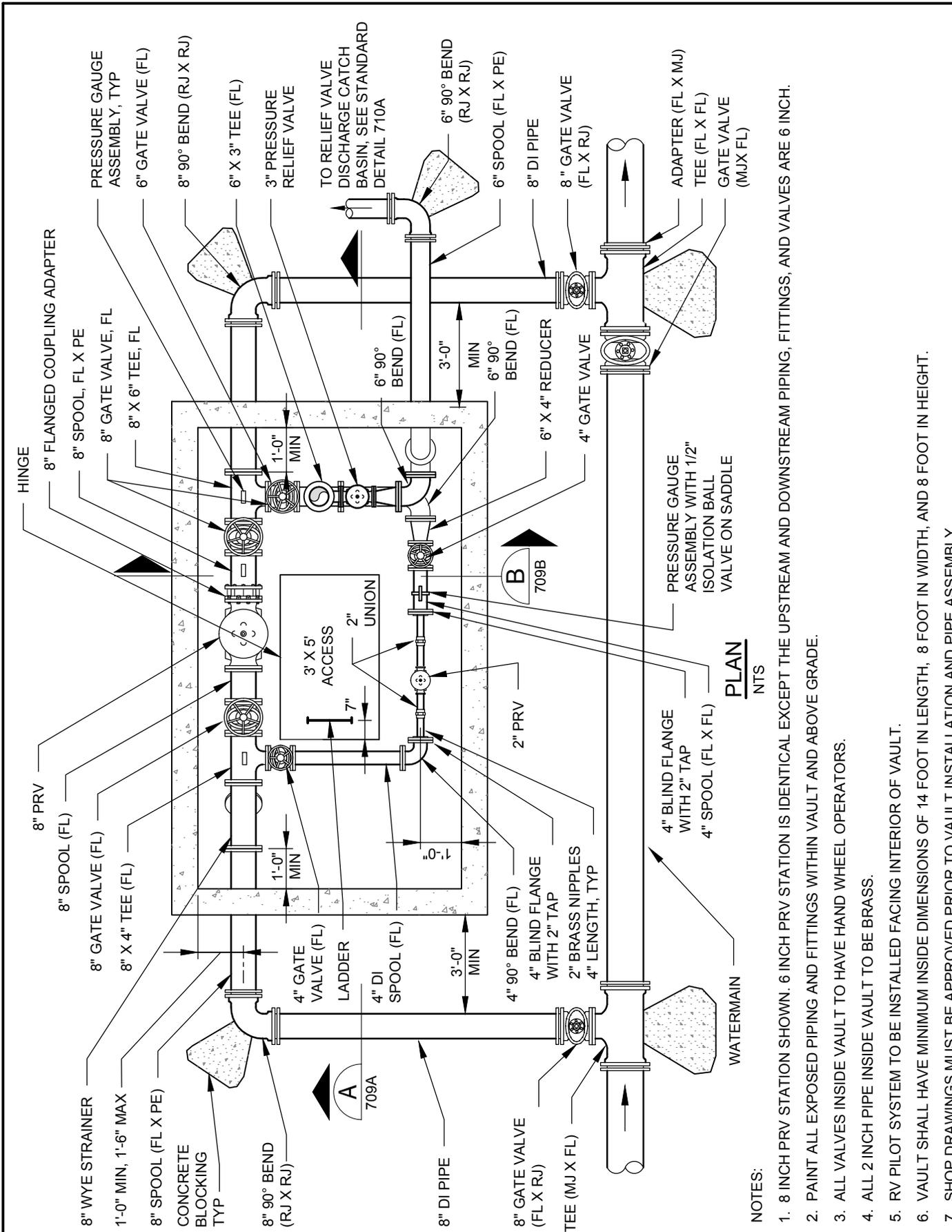


SECTION
NTS

NOTES:

1. SEE STANDARD DETAIL 701A FOR CONNECTION TO MAIN.
2. SET METER BOX FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET METER BOX APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF IN LANDSCAPING AREA.
3. INSTALL STANDARD MARKER POST IDENTIFYING BLOW-OFF LOCATION. (NOT SHOWN)
4. ANY ADDITIONAL FITTINGS FROM THE GATE VALVE TO THE MAIN SHALL BE BRASS.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			BLOW-OFF ASSEMBLY	
REVISION DATE: MARCH 01, 2010			FILE NAME: SD707.DWG	DETAIL NUMBER: 707

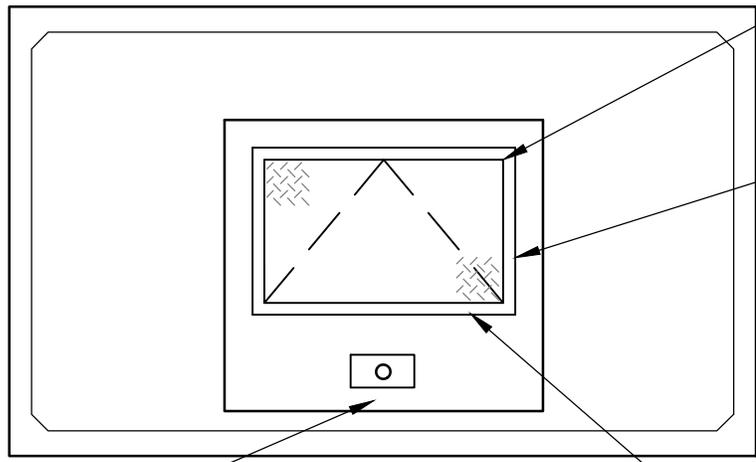


PLAN
NTS

NOTES:

1. 8 INCH PRV STATION SHOWN. 6 INCH PRV STATION IS IDENTICAL EXCEPT THE UPSTREAM AND DOWNSTREAM PIPING, FITTINGS, AND VALVES ARE 6 INCH.
2. PAINT ALL EXPOSED PIPING AND FITTINGS WITHIN VAULT AND ABOVE GRADE.
3. ALL VALVES INSIDE VAULT TO HAVE HAND WHEEL OPERATORS.
4. ALL 2 INCH PIPE INSIDE VAULT TO BE BRASS.
5. RV PILOT SYSTEM TO BE INSTALLED FACING INTERIOR OF VAULT.
6. VAULT SHALL HAVE MINIMUM INSIDE DIMENSIONS OF 14 FOOT IN LENGTH, 8 FOOT IN WIDTH, AND 8 FOOT IN HEIGHT.
7. SHOP DRAWINGS MUST BE APPROVED PRIOR TO VAULT INSTALLATION AND PIPE ASSEMBLY.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			6" AND 8" PRV STATION PLAN	
REVISION DATE: MARCH 01, 2012	City of Redmond WASHINGTON		FILE NAME: SD708.DWG	DETAIL NUMBER: 708



HINGE SIDE
COVER SLAB

DAVIT ARM BASE

PLAN
NTS

3'-0" X 5'-0" ALUMINUM, SINGLE LEAF CHANNEL FRAME DOOR, DRAIN TO SUMP WITH 1- 1/2" PIPE

ALUMINUM LADDER PER WISHA
PRECAST CONC COLLAR
1'-0" MIN, 2'-0" MAX
PRESSURE GAUGE ASSEMBLY WITH 1/2" ISOLATION BALL VALVE ON 1" TAPPING BOSS

HATCH FRAME DRAIN
SEE NOTE 5

8" WYE STRAINER WITH 1/8" PERFORATED STAINLESS SCREEN
PRECAST VAULT
6" BLIND FLANGE WITH 2" TAP

8" GATE VALVE (FL)
GASKET

1- 1/2" PVC (SCH 40)
8" GATE VALVE, FL
PRESSURE GAUGE ASSEMBLY WITH 1/2" ISOLATION BALL VALVE ON SADDLE

2'-0" MIN
3'-0" MAX
6" MIN DEPTH CRUSHED TOP COURSE

2" BRASS NIPPLE (3"), 2" GATE VALVE, 2" PLUG

6" DI VAULT DRAIN TO STORM SEWER

ADJUSTABLE PIPE SUPPORTS WITH SADDLE AND ANCHOR FLANGE. SPACE AS NEEDED FOR PROPER SUPPORT, TYPICAL ALL PIPING

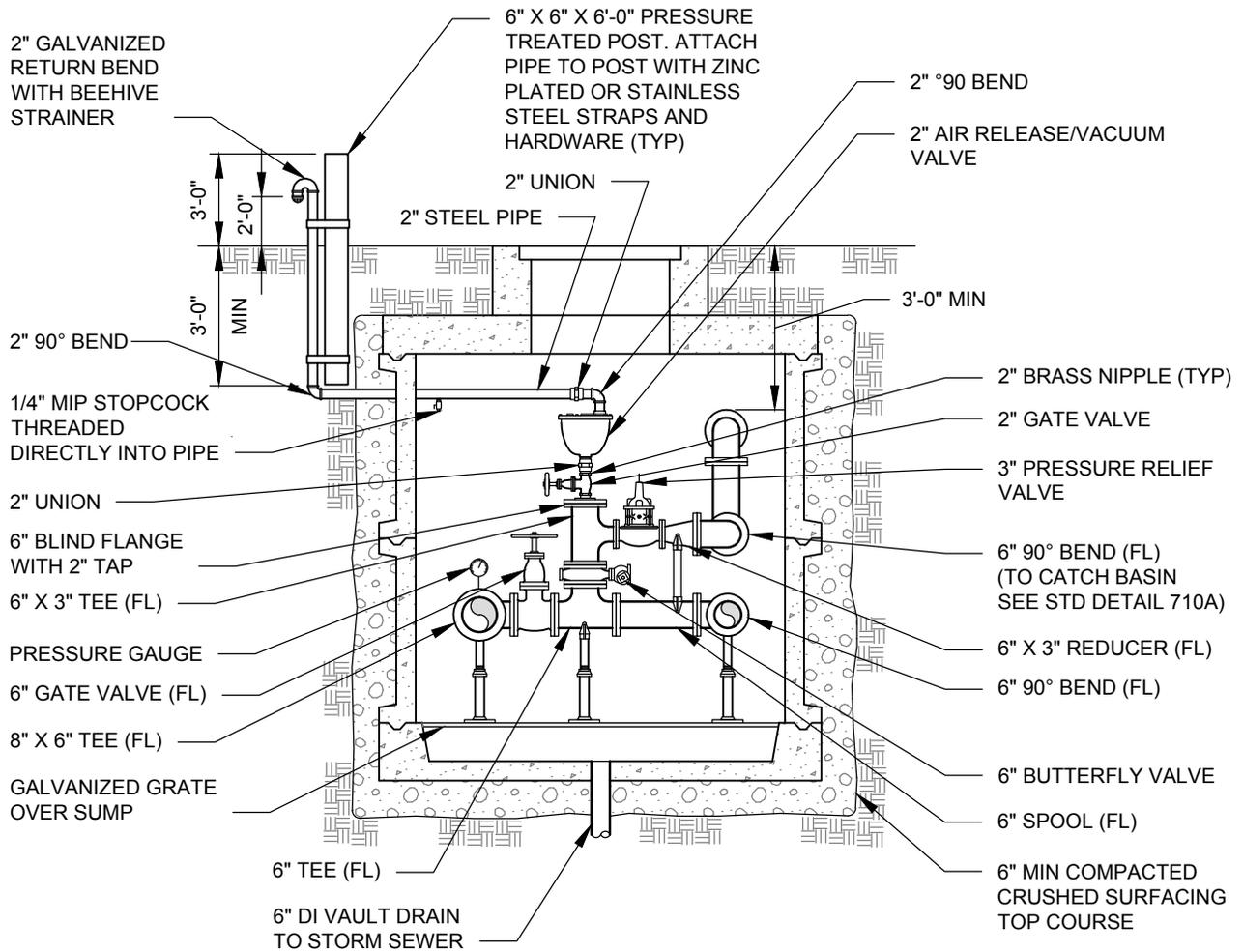
GALVANIZED GRATE OVER SUMP
GROUT AND FILL SUMP UNDER PIPE SUPPORTS

SECTION A
NTS 708

NOTES:

1. 8 INCH PRV STATION SHOWN. 6 INCH PRV STATION IS IDENTICAL EXCEPT THAT THE UPSTREAM AND DOWNSTREAM PIPING, FITTINGS, AND VALVES ARE 6 INCHES.
2. PAINT ALL EXPOSED PIPING AND FITTINGS WITHIN VAULT AND ABOVE GRADE.
3. ALL VALVES WITHIN VAULT TO HAVE HAND WHEEL OPERATORS.
4. SET COVER SLAB FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET COVER SLAB APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF LOCATED IN LANDSCAPING AREA.
5. HATCH FRAME DRAIN CAST IN CONCRETE SHALL BE 1- 1/2" BRASS. REMAINDER OF HATCH FRAME DRAIN SHALL BE 1-1/2" SCH 40 PVC IN VAULT. USE 45° BENDS WHERE POSSIBLE AND PROVIDE UNIONS TO ALLOW DISASSEMBLY OF PIPING. ATTACH TO VAULT WITH STAINLESS STEEL HARDWARE.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			6" AND 8" PRV STATION	
REVISION DATE: MARCH 01, 2012	City of Redmond WASHINGTON		FILE NAME: SD709A.DWG	DETAIL NUMBER: 709A

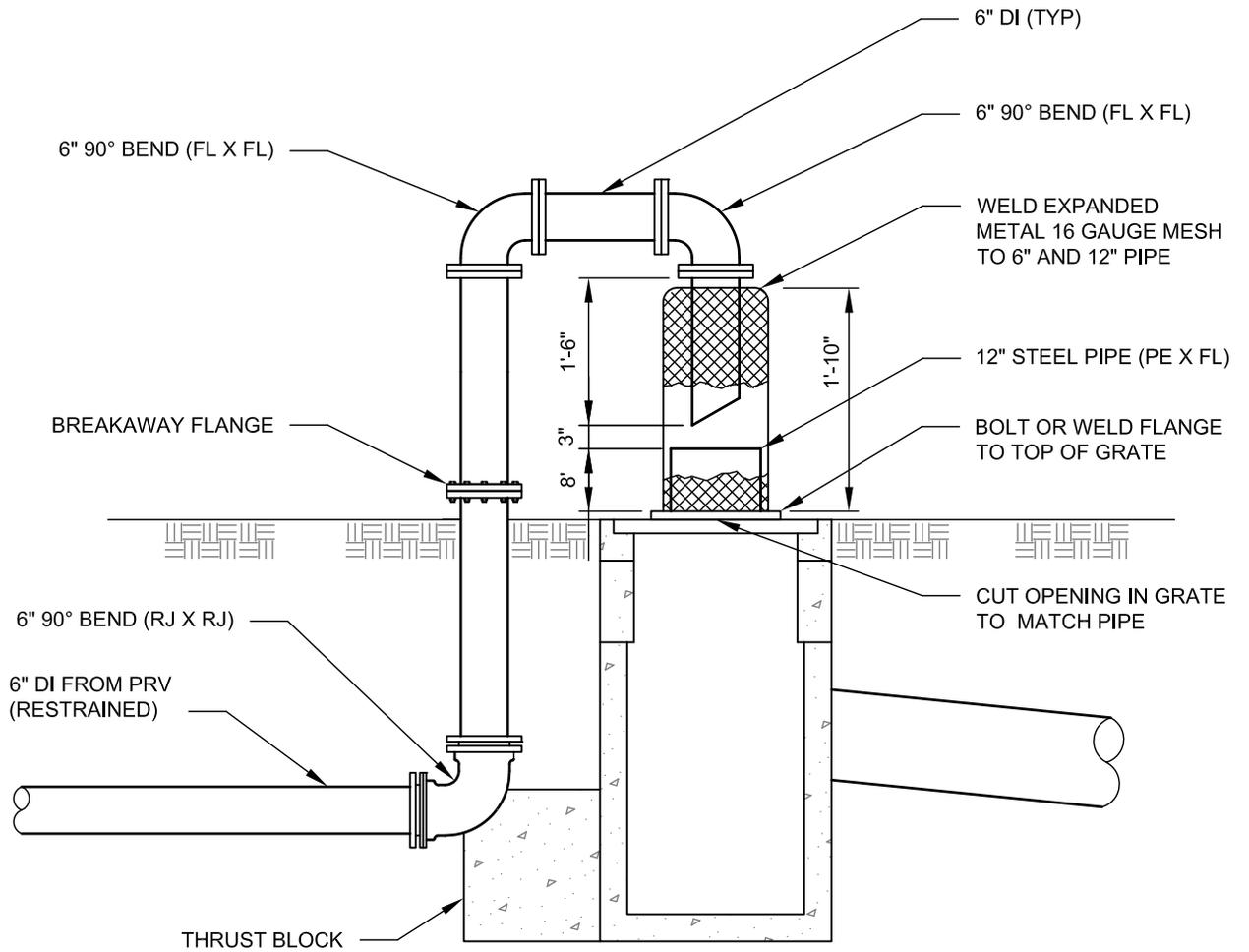


SECTION B
 NTS 708

NOTES:

1. 8 INCH PRV STATION SHOWN. 6 INCH PRV STATION IS IDENTICAL EXCEPT THE UPSTREAM AND DOWNSTREAM PIPING, FITTINGS, AND VALVES ARE 6 INCHES.
2. PAINT ALL EXPOSED PIPING AND FITTINGS WITHIN VAULT AND ABOVE GRADE.
3. ALL VALVES INSIDE VAULT TO HAVE HAND WHEEL OPERATORS.
4. SET COVER SLAB FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA.
 SET COVER SLAB APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF LOCATED IN LANDSCAPING AREA.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS
APPROVED BY: RON GRANT CITY ENGINEER	6" AND 8" PRV STATION SECTION		
REVISION DATE: MARCH 01, 2012	FILE NAME: SD709B.DWG		DETAIL NUMBER: 709B



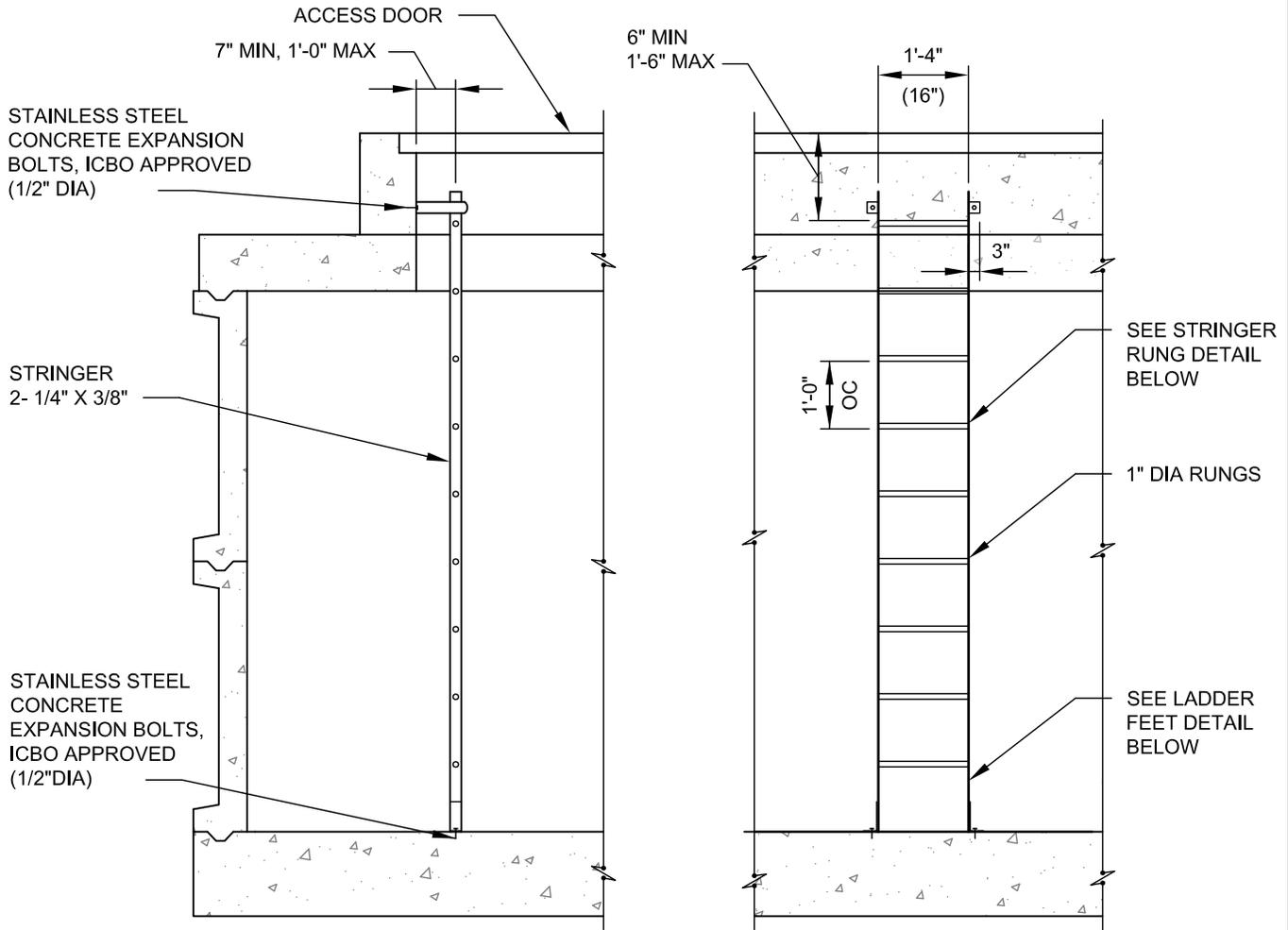
CATCH BASIN DETAIL

NTS

NOTE:

PAINT ALL EXPOSED PIPING AND FITTINGS ABOVE GRADE.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			6" AND 8" PRV STATION MISC DETAILS	
REVISION DATE: MARCH 01, 2010			FILE NAME: SD710A.DWG	DETAIL NUMBER: 710A

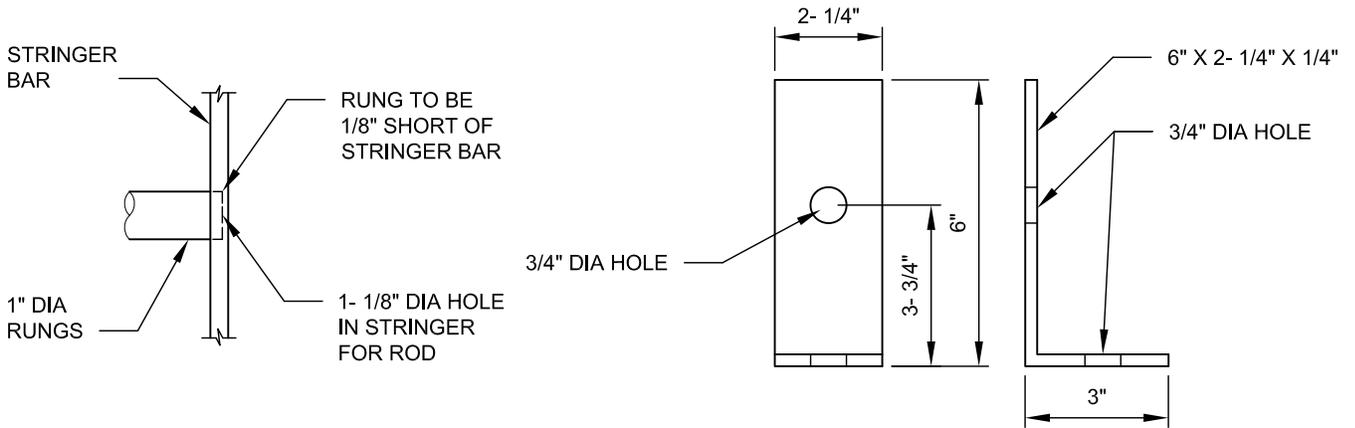


NOTES:

ALL RUNGS SHALL BE CORRUGATED, KNURLED, DIMPLED, COATED WITH SKID-RESISTANT MATERIAL, OR OTHERWISE TREATED TO MINIMIZE SLIPPING.

ALUMINUM LADDER SECTION

NTS



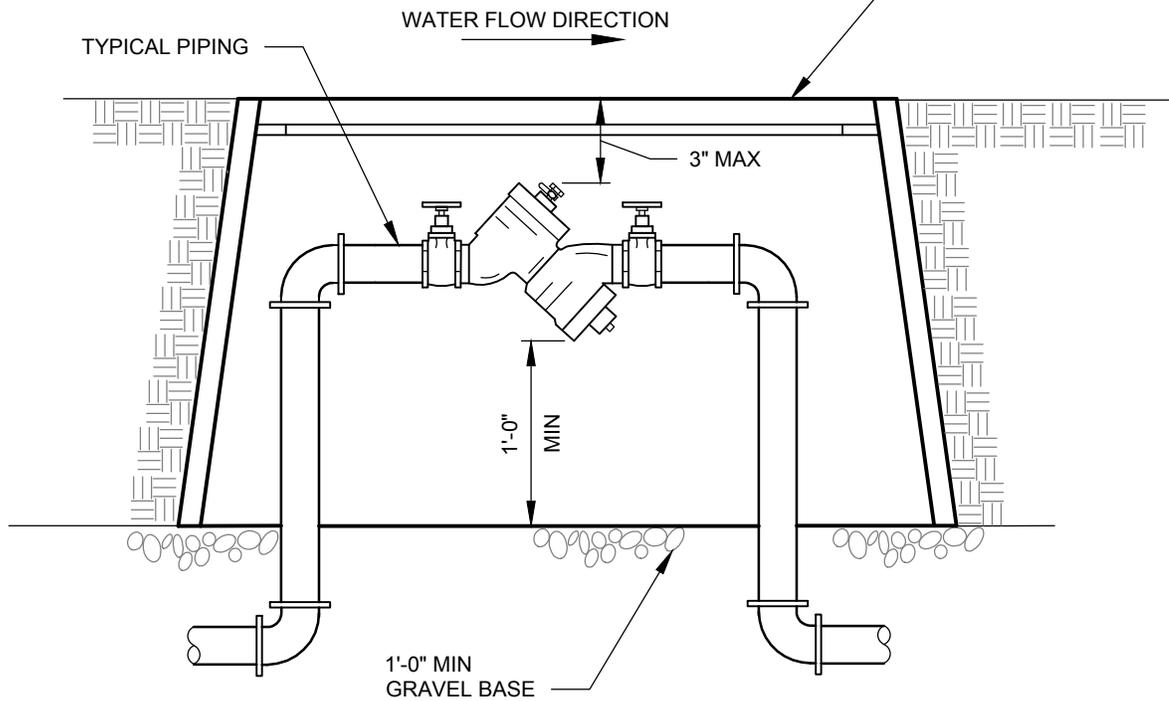
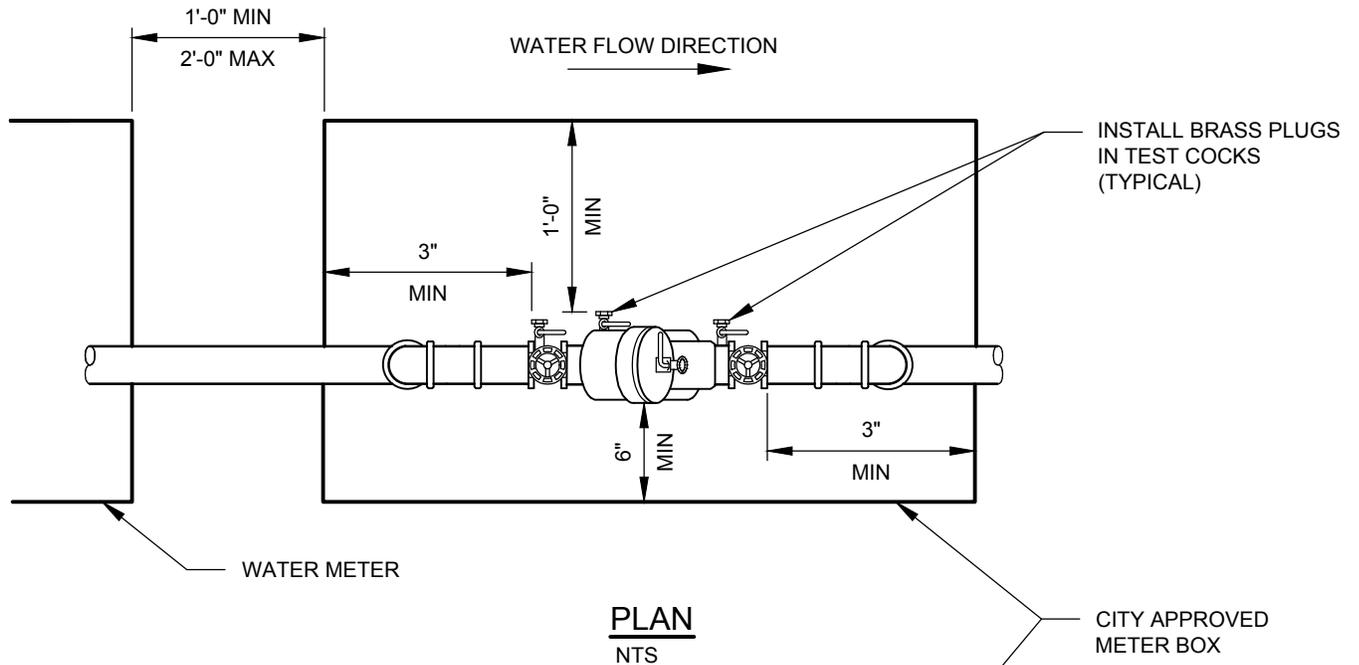
STRINGER / RUNG DETAIL

NTS

LADDER FEET DETAIL

NTS

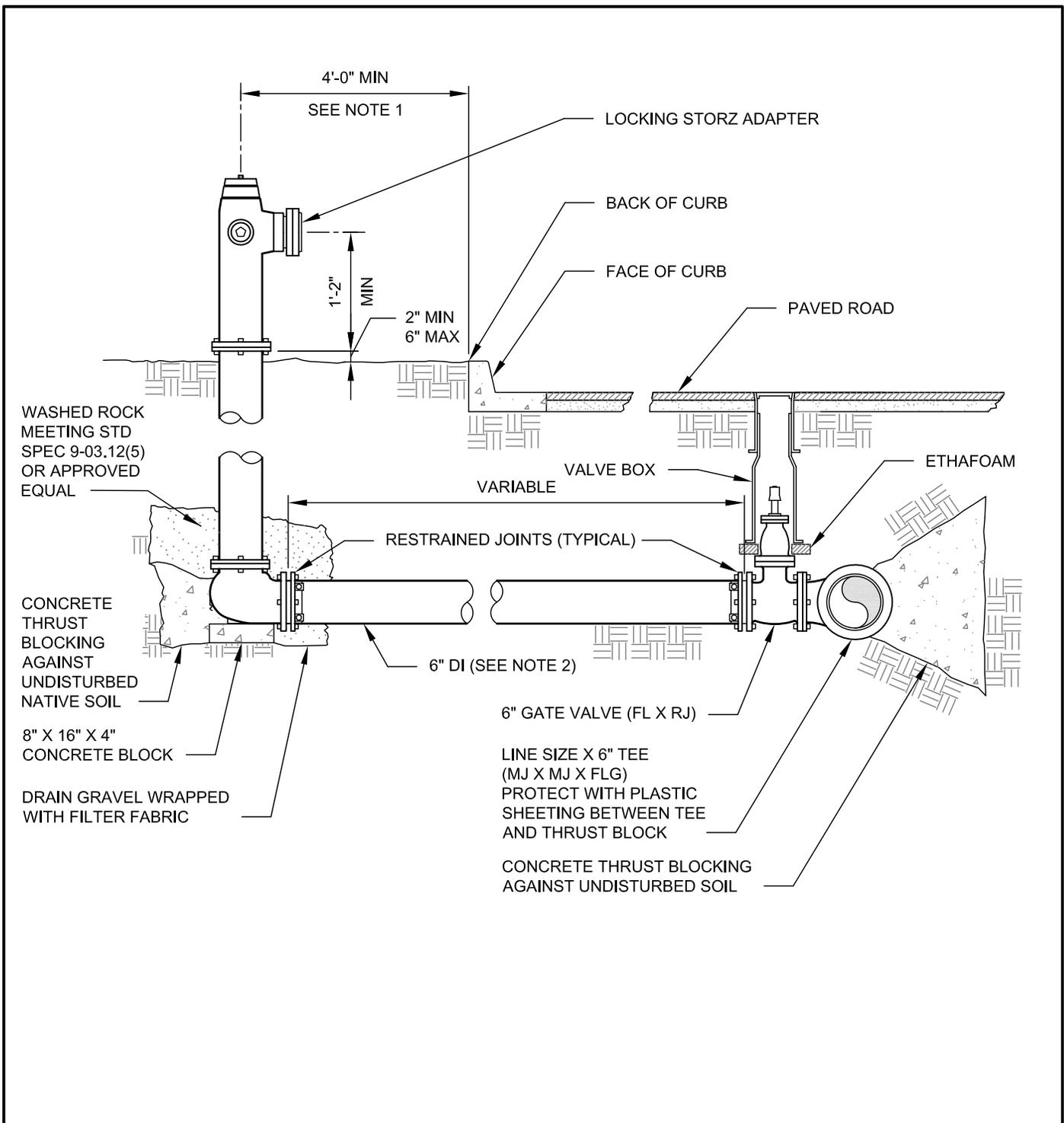
CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			6" AND 8" PRV STATION MISCELLANEOUS DETAILS	
REVISION DATE: MARCH 01, 2010			FILE NAME: SD710B.DWG	DETAIL NUMBER: 710B



NOTES:

1. DOUBLE CHECK VALVE ASSEMBLY SHALL MEET REQUIREMENTS OF THE LATEST EDITION AWWA "ACCEPTED PROCEDURE AND PRACTICE IN CROSS-CONNECTION CONTROL" MANUAL.
2. DEVICES MUST BE ON THE LATEST EDITION OF THE WASHINGTON STATE HEALTH DEPARTMENT LIST OF APPROVED CROSS-CONNECTION CONTROL DEVICES.
3. METER BOX SIZE SHOULD BE THE SIZE SPECIFIED FOR THE METER SIZE EQUIVALENT TO THE BACKFLOW PREVENTOR SIZE.
4. IRRIGATION BLOW OUT CONNECTION FOR WINTERIZATION SHALL BE LOCATED DOWNSTREAM OF THE DOUBLE CHECK VALVE ASSEMBLY.

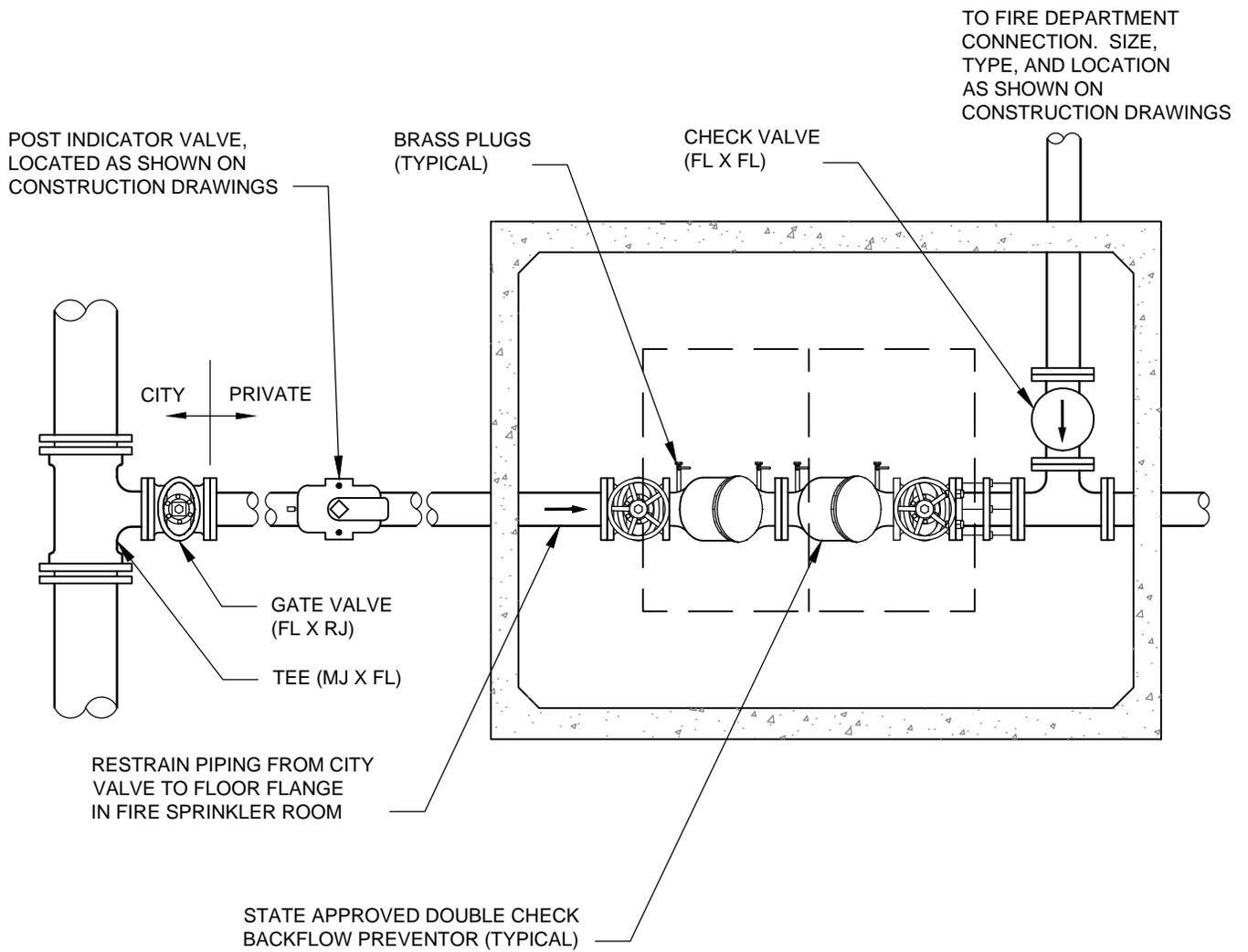
CITY OF REDMOND, WASHINGTON		 CityofRedmond <small>WASHINGTON</small>	STANDARD DETAILS
APPROVED BY: RON GRANT CITY ENGINEER	IRRIGATION/RESIDENTIAL FIRE BACKFLOW PREVENTOR (3/4" - 2")		FILE NAME: SD711.DWG
REVISION DATE: MARCH 01, 2011			DETAIL NUMBER: 711



NOTES:

1. WHERE FIRE HYDRANT IS SHOWN BEHIND SIDEWALK, SET CENTER OF HYDRANT 2 FEET BEHIND WALK.
2. FIRE HYDRANT LINE SIZE SHALL BE A MINIMUM OF 8 INCH DIAMETER IF LENGTH IS GREATER THAN 50 FEET.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS
APPROVED BY: RON GRANT CITY ENGINEER	FIRE HYDRANT ASSEMBLY		
REVISION DATE: MARCH 01, 2010	FILE NAME: SD713.DWG		DETAIL NUMBER: 713

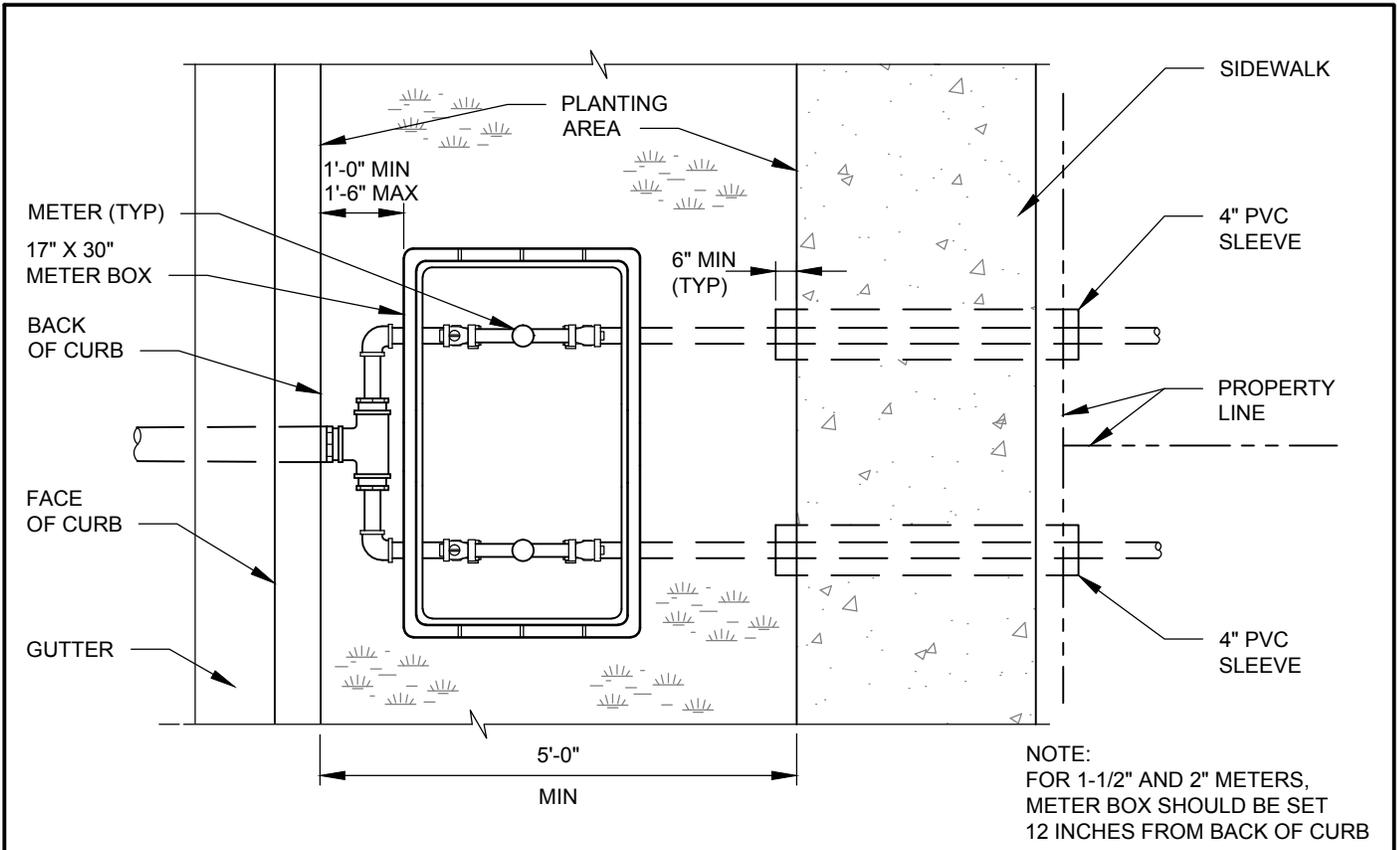


PLAN
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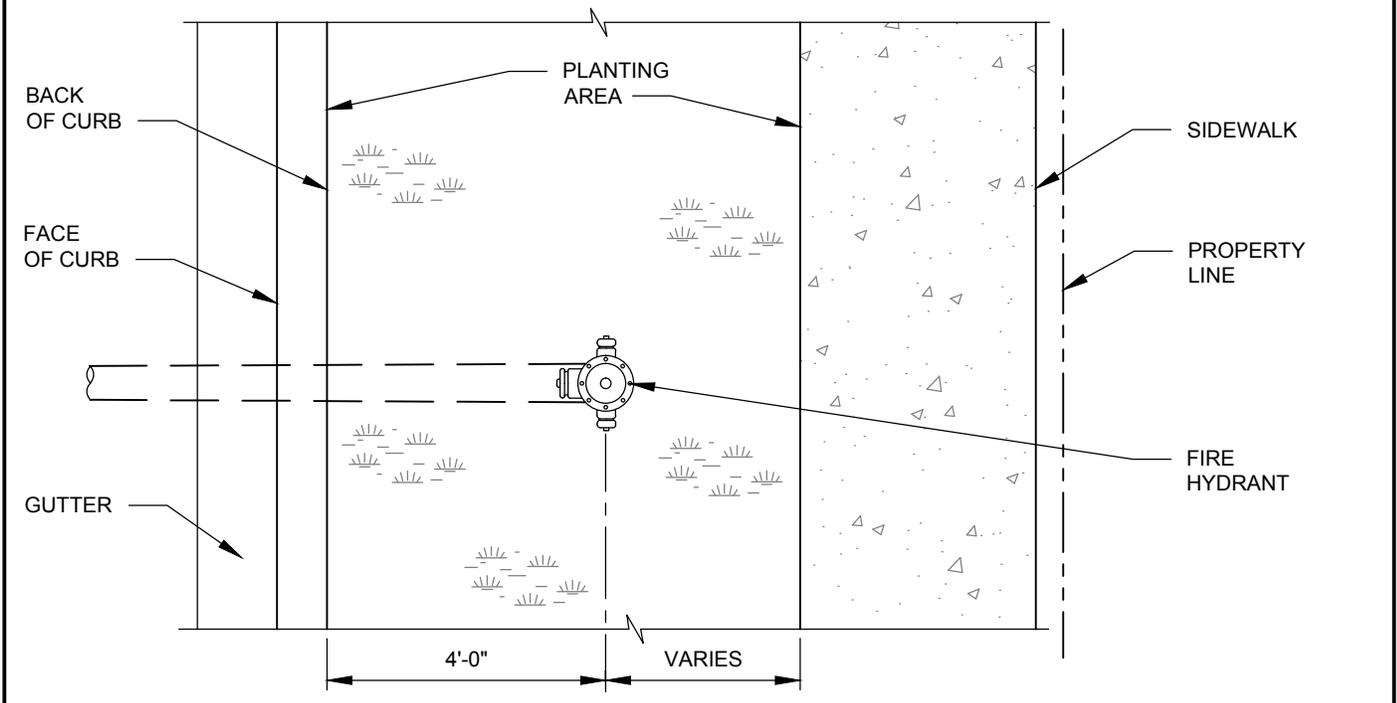
NOTES:

1. VAULT SHALL BE SIZED BY THE PROJECT ENGINEER AND THE SIZE SHALL BE SHOWN ON THE PROJECT DRAWINGS. VAULT SIZE SHALL BE DETERMINED BY CONSIDERING THE SIZE OF THE BACKFLOW PREVENTOR, MINIMUM CLEARANCES REQUIRED BY THE AWWA CROSS CONNECTION CONTROL MANUAL AND THE FIRE DEPARTMENT CONNECTION.
2. BACKFLOW PREVENTOR SHALL BE LOCATED WITHIN THE BUILDING OR WITHIN A VAULT. THE CONSTRUCTION DRAWINGS SHALL SHOW THE LOCATION OF THE BACKFLOW PREVENTOR AND ALL ASSOCIATED FIRE SPRINKLER PIPING INCLUDING POST INDICATOR VALVES AND FIRE DEPARTMENT CONNECTIONS.
3. VAULT DRAIN SHALL BE CONNECTED TO THE STORM SYSTEM AS SHOWN ON THE PROJECT DRAWINGS. IF 2% SLOPE ON THE DRAIN IS NOT FEASIBLE, A SUMP PUMP SHALL BE REQUIRED.
4. ACCESS DOOR SHALL BE SIZED BY THE PROJECT ENGINEER AND THE SIZE SHALL BE SHOWN ON THE PROJECT DRAWINGS. DOOR SIZE SHALL BE DETERMINED CONSIDERING THE SIZE OF THE EQUIPMENT IN THE VAULT.
5. PIPING IN VAULT SHALL INCLUDE RESTRAINED FLANGE COUPLING ADAPTOR OR GROOVED FITTING FOR ABILITY TO DISASSEMBLE ASSEMBLY FOR MAINTENANCE.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			FIRE SPRINKLER SYSTEM BACKFLOW PREVENTOR	
REVISION DATE: MARCH 01, 2012	City of Redmond WASHINGTON		FILE NAME: SD714.DWG	DETAIL NUMBER: 714



METER BOXES
NTS



FIRE HYDRANT
NTS

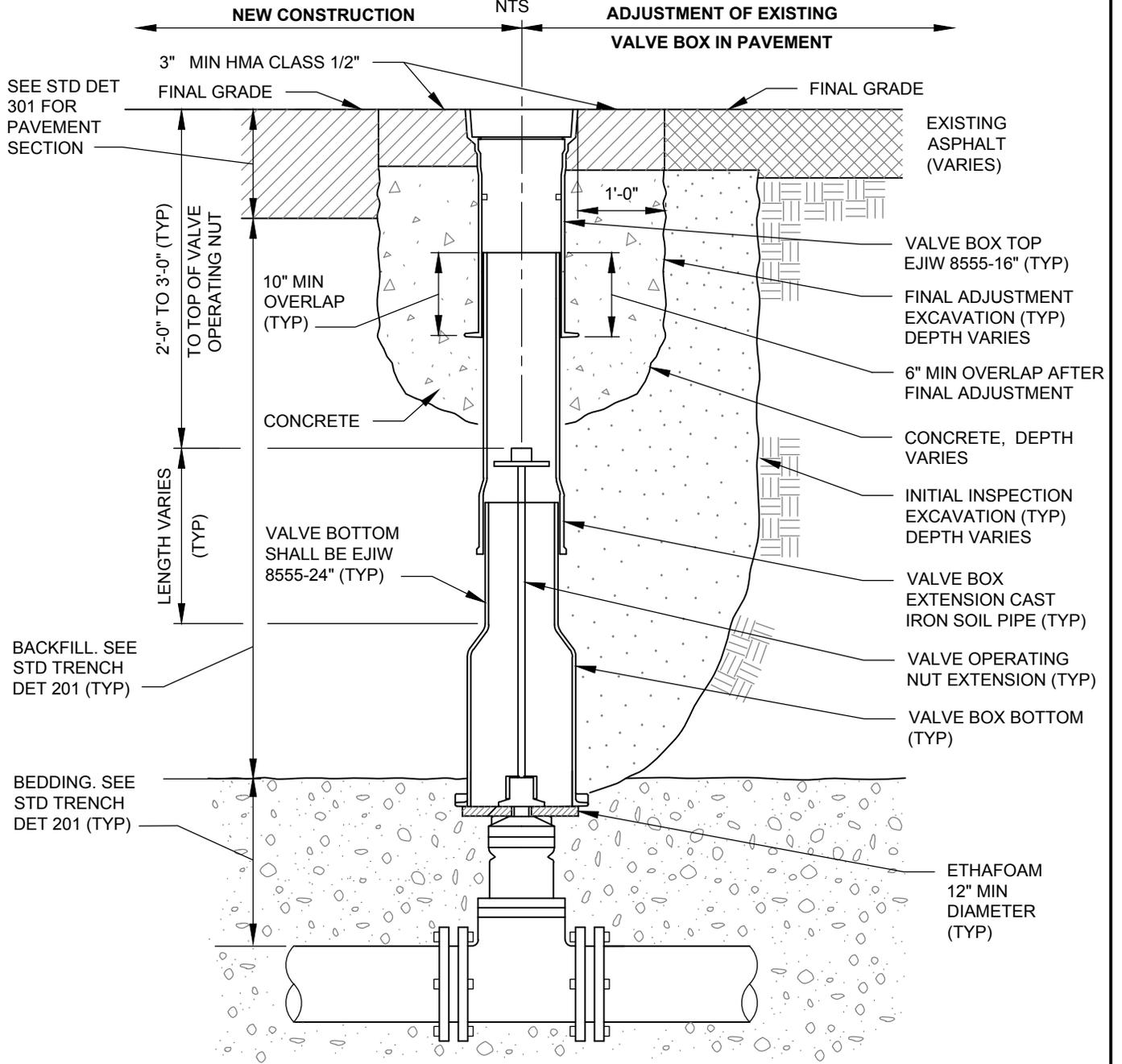
CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			METER BOX AND HYDRANT LOCATIONS WITHIN PLANTING AREA	
REVISION DATE: MARCH 01, 2012		CityofRedmond WASHINGTON	FILE NAME: SD716.DWG	DETAIL NUMBER: 716

VALVE BOX COVER, EAST JORDAN IRON WORKS, EJIW 6800

ALIGN INTERNAL VALVE BOX NUBS IN THE DIRECTON OF THE WATER MAIN (AS SHOWN)



PLAN



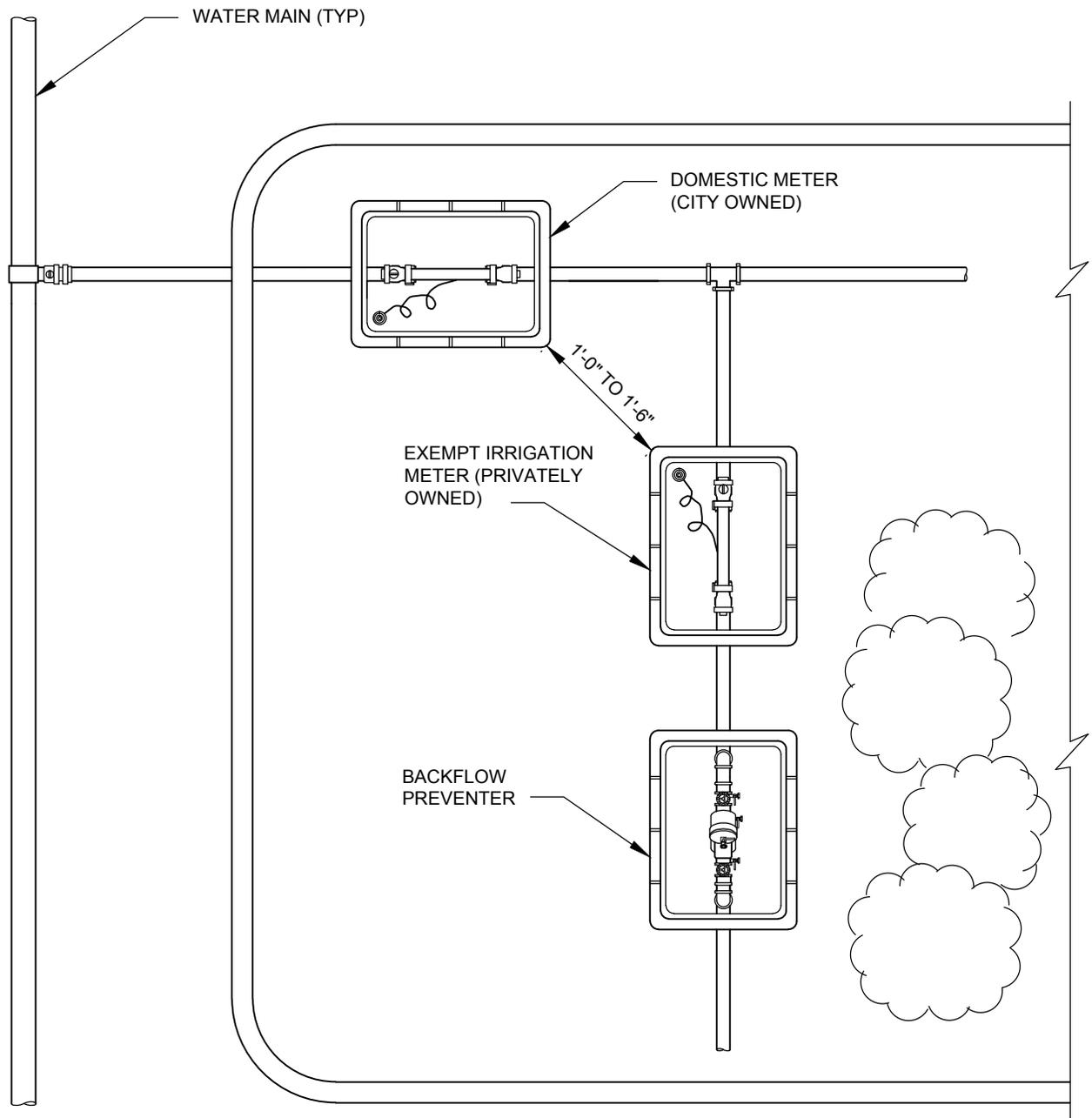
SECTION

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NOTES:

1. ALL EXISTING VALVE BOXES IN NEW PAVEMENT AREAS SHALL BE REPLACED WITH THE LATEST MODEL.
2. VALVE BOX LIDS SHALL BE INSTALLED FLUSH WITH FINISHED GRADE.
3. UTILITY ADJUSTMENTS TO FINAL GRADE SHALL BE DONE **AFTER** THE PAVING OPERATIONS ARE COMPLETE.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS
APPROVED BY: RON GRANT CITY ENGINEER	VALVE BOX DETAIL		
REVISION DATE: MARCH 01, 2012		FILE NAME: SD718.DWG	DETAIL NUMBER: 718



IRRIGATION METER PLAN
NTS

NOTES:

1. EXEMPT METERS SHALL BE PLACED GENERALLY PARALLEL WITH THE CITY WATER MAIN AND PERPENDICULAR TO THE CITY METER.
2. EXEMPT METERS SHALL BE PLACED A MINIMUM OF 12 INCHES FROM CITY WATER METER AND SHOULD GENERALLY NOT BE MORE THAN 18 INCHES.
3. INSTALL EXEMPT METER SETTER IN ACCORDANCE WITH STANDARD DETAIL 702.

CITY OF REDMOND, WASHINGTON			STANDARD DETAILS	
APPROVED BY: RON GRANT CITY ENGINEER			EXEMPT IRRIGATION METER LOCATION REQUIREMENTS	
REVISION DATE: MARCH 01, 2012	City of Redmond WASHINGTON		FILE NAME: SD719.DWG	DETAIL NUMBER: 719