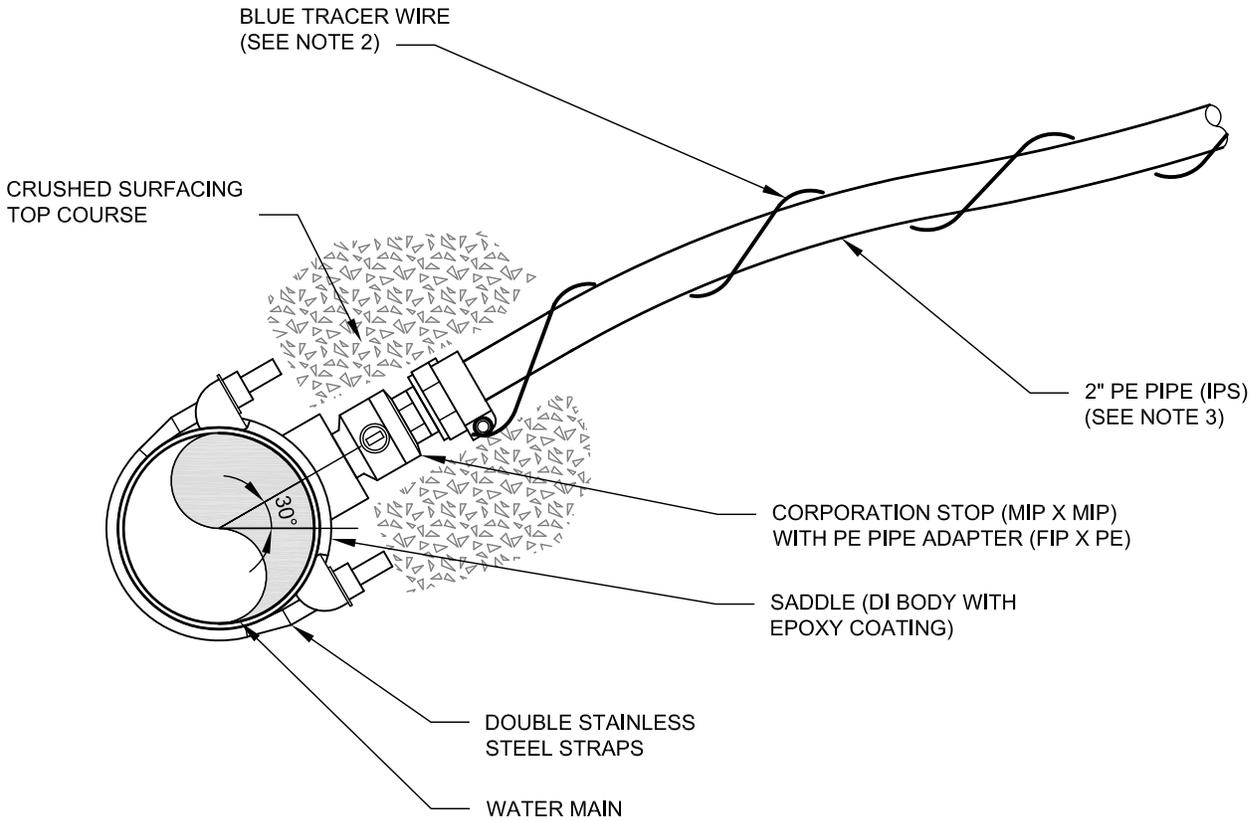


Section 7

Water



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 MANIFOLDS, REFER TO STANDARD DETAIL 701B GATE VALVE SERVICE CONNECTIONS.
2. ATTACH 12 GAUGE TRACER WIRE TO WATER MAIN TO MAKE ELECTRICALLY CONTINUOUS.
3. SERVICE PIPE SHALL BE BURIED IN CRUSHED SURFACING TOP COURSE.
4. DIRECT TAPPING OF WATER MAIN IS NOT ALLOWED.

Scott Thomasson

APPROVED BY: SCOTT THOMASSON
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: JULY 01, 2015

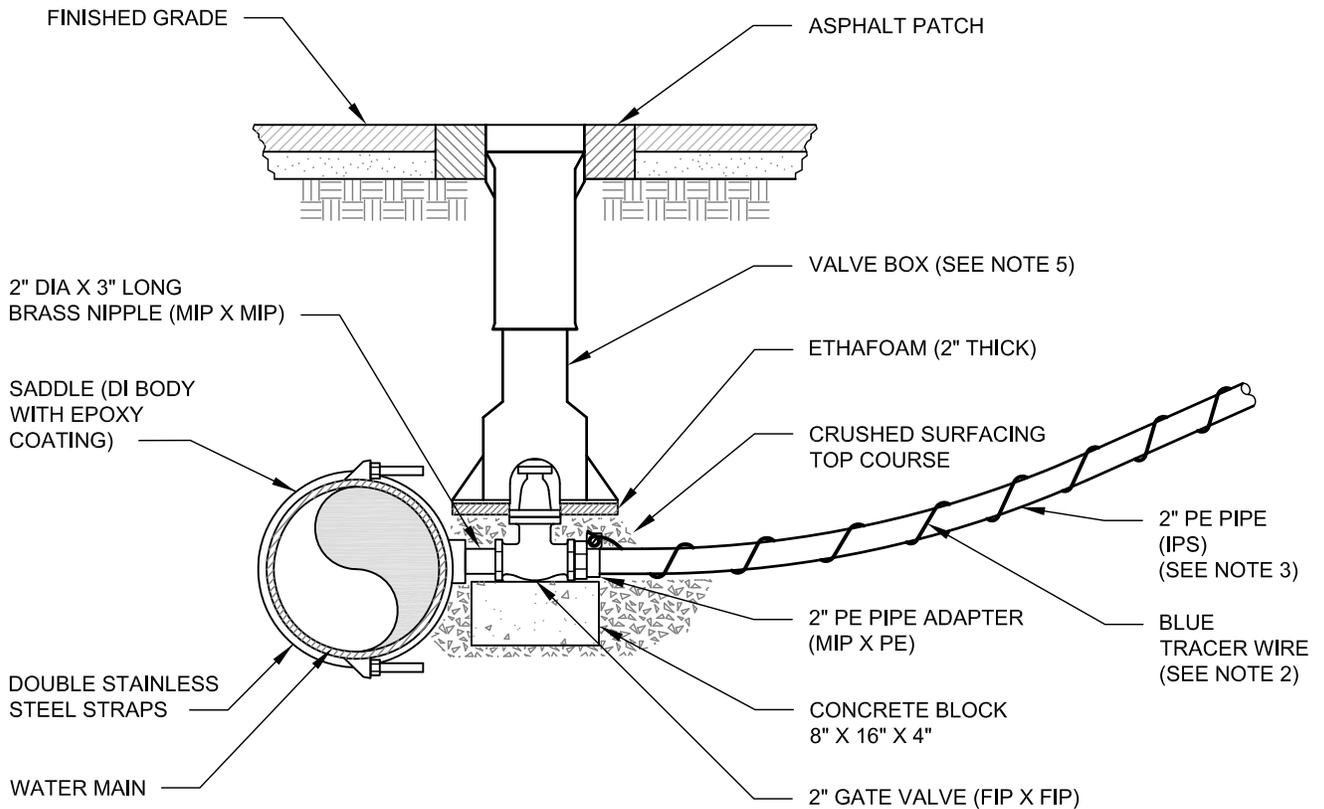


CityofRedmond
WASHINGTON

STANDARD DETAILS

**CORPORATION STOP
SERVICE CONNECTIONS**

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



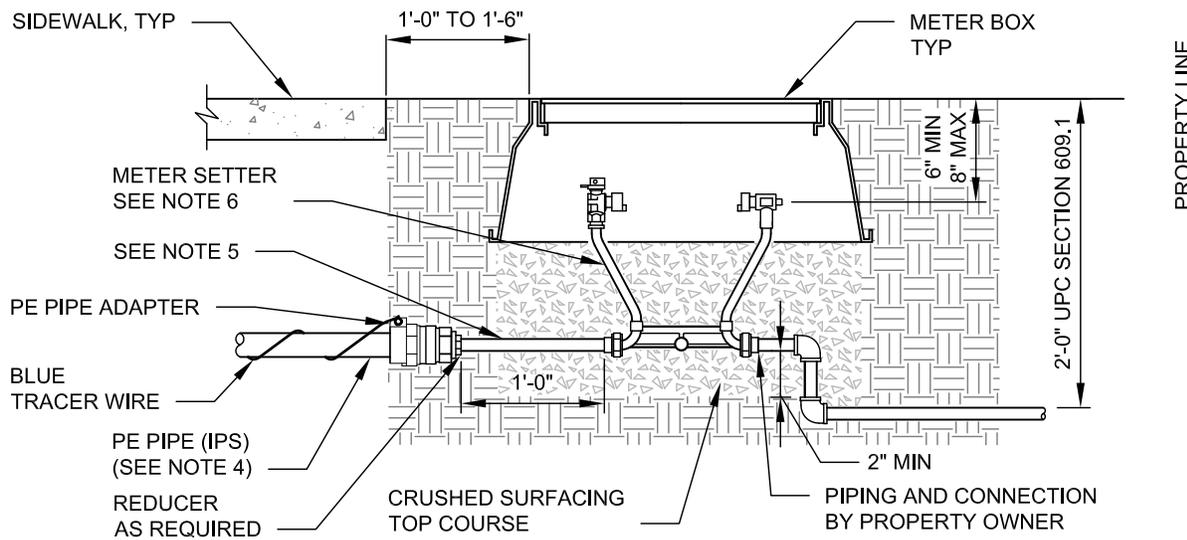
SECTION
NTS

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

NOTES:

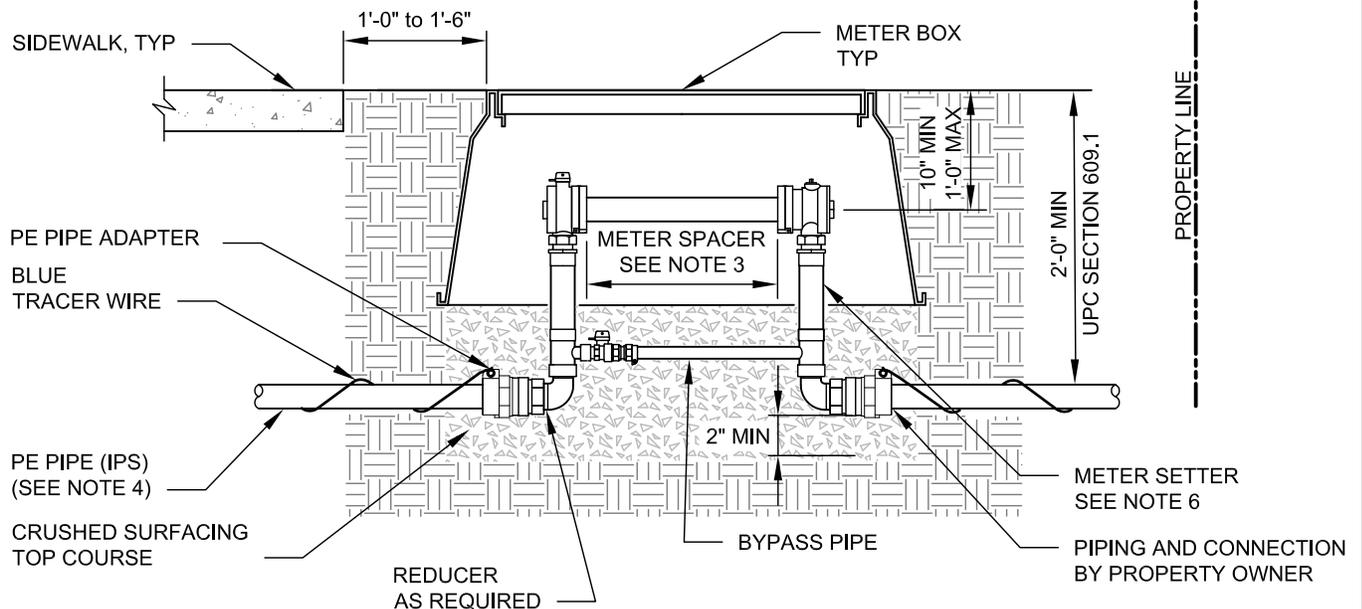
1. GATE VALVE SERVICE CONNECTION SHALL ONLY BE USED FOR TRIPLE SERVICE MANIFOLDS OR LARGER. FOR SINGLE AND DOUBLE SERVICES, REFER TO STANDARD DETAIL 701A CORPORATION STOP SERVICE CONNECTIONS.
2. ATTACH 12 GAUGE TRACER WIRE TO WATER MAIN TO MAKE ELECTRICALLY CONTINUOUS.
3. SERVICE PIPE SHALL BE BURIED IN CRUSHED SURFACING TOP COURSE.
4. 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.
5. DIRECT TAPPING OF WATER MAIN IS NOT ALLOWED.

 APPROVED BY: SCOTT THOMASSON WATER/WASTEWATER ENGINEERING MANAGER	 City of Redmond WASHINGTON	STANDARD DETAILS GATE VALVE SERVICE CONNECTION
REVISION DATE: JULY 01, 2015		FILE NAME: SD701B.DWG DETAIL NUMBER: 701B



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

NTS



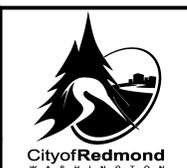
1- 1/2" AND 2" WATER METER

NTS

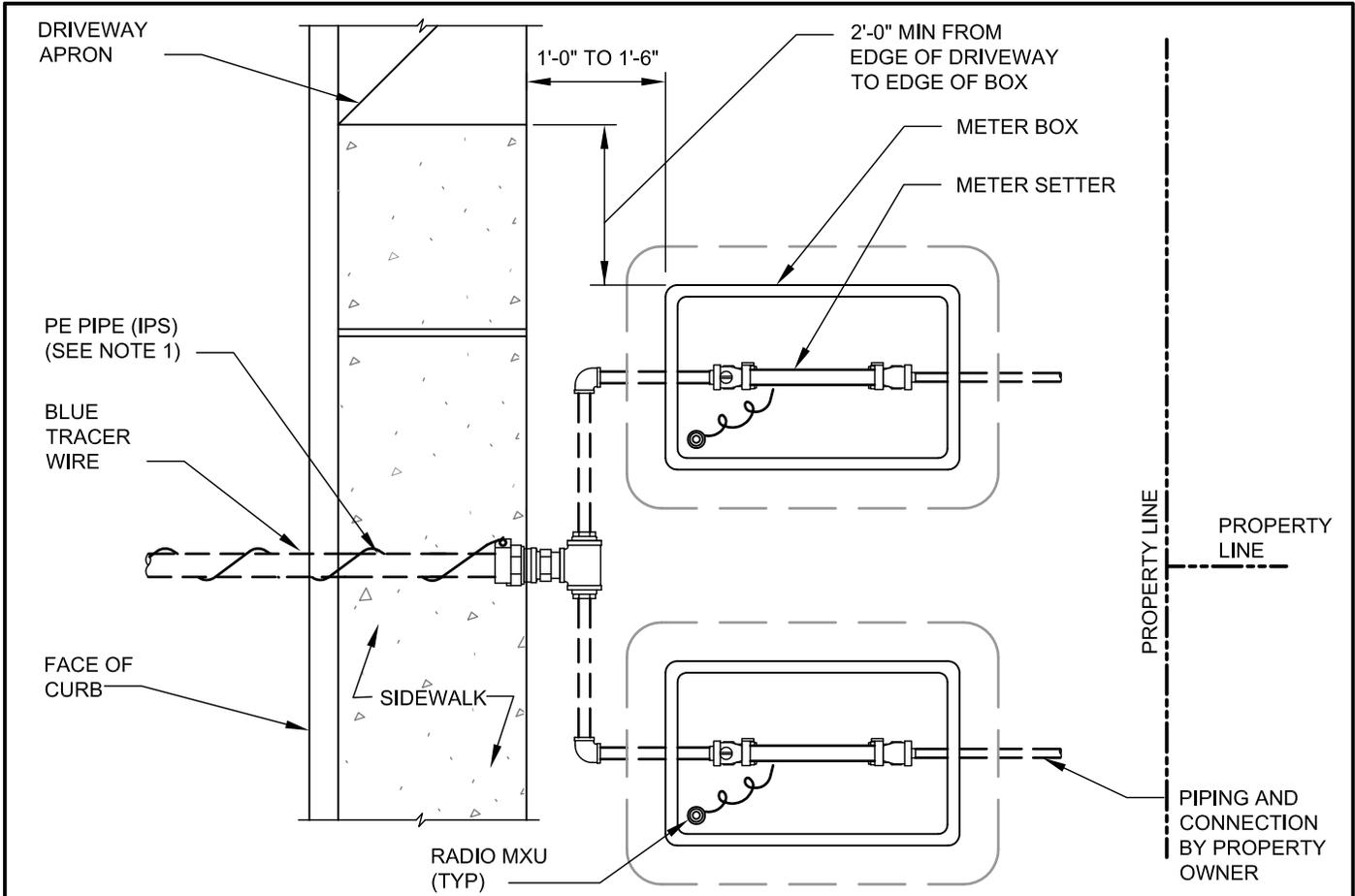
NOTES:

1. SEE STANDARD DETAIL 701A, 701B, 703, 703A, 703B AND 703C 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. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER.
5. FOR 5/8 INCH X 3/4 INCH OR 1 INCH METER SETTERS, INSTALL A 1 FOOT LONG BRASS NIPPLE BETWEEN THE REDUCER AND THE METER SETTER. DIA SIZE TO MATCH METER SETTER SIZE.
6. 1- 1/2 INCH AND 2 INCH METER SETTERS MAY BE HORIZONTAL OR VERTICAL INLETS AND OUTLETS.
7. ALL FITTINGS SHALL BE BRASS.
8. TOUCHREAD PAD HOLE TO BE DRILLED BY CITY.

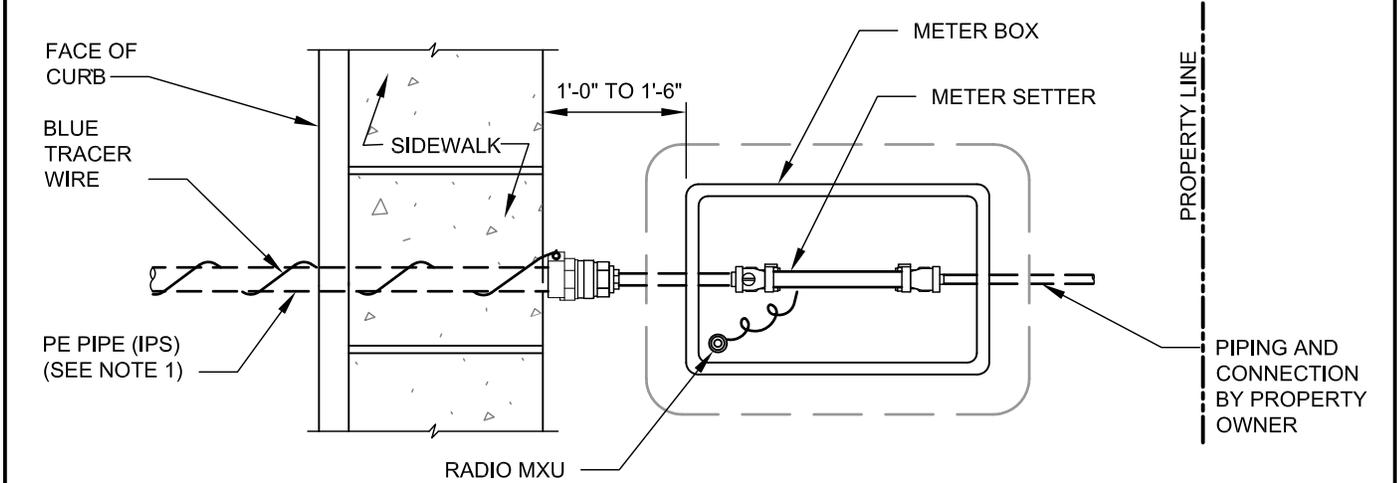
Scott Thomasson
 APPROVED BY: SCOTT THOMASSON
 WATER/WASTEWATER ENGINEERING MANAGER
 REVISION DATE: JULY 01, 2015



STANDARD DETAILS
5/8" X 3/4" TO 2"
METER SETTER DETAILS
 FILE NAME: SD702.DWG DETAIL NUMBER: **702**



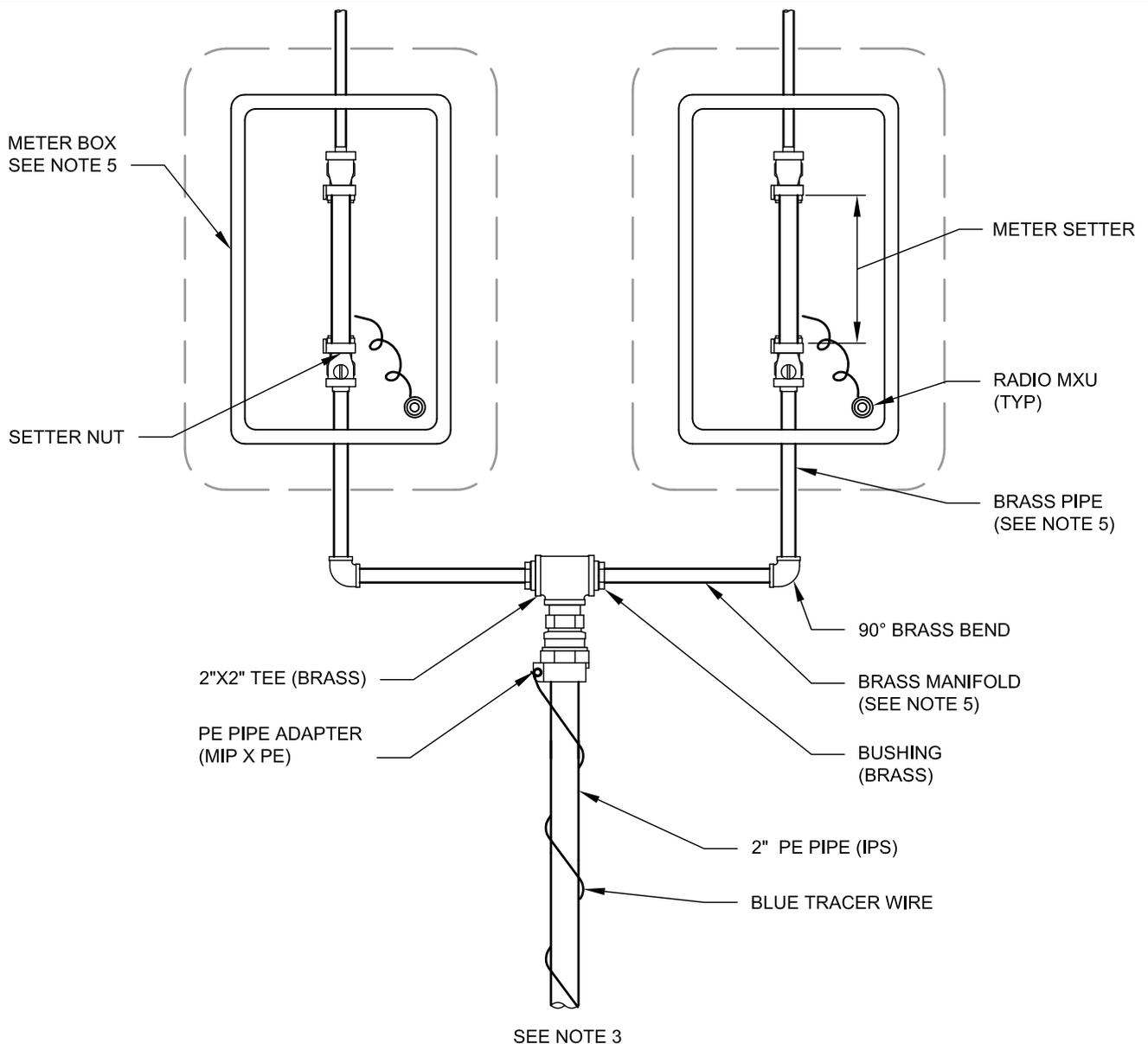
DOUBLE SERVICE
NTS



SINGLE SERVICE
NTS

NOTES:

1. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER.
2. SEE STANDARD DETAILS 701A, 701B, 702, 703A, 703B AND 703C FOR ADDITIONAL DETAILS.
3. SEE STANDARD DETAIL 703C FOR TYPICAL PLACEMENT IN PLANTER STRIP.



SEE NOTE 3

PLAN
NTS

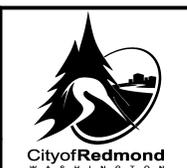
NOTES:

1. ALL METERS SHALL BE INSTALLED IN LANDSCAPE AREAS.
2. DOUBLE SERVICE MANIFOLD SHALL BE USED FOR THE FOLLOWING USES:
 - A. ALL 5/8 INCH X 3/4 INCH AND 1 INCH METERS
 - B. 1- 1/2 INCH SINGLE FAMILY RESIDENTIAL DUAL PURPOSE (DOMESTIC AND FIRE) METERS.
3. USE CORPORATION STOP CONNECTION. SEE STANDARD DETAIL 701A.
4. CENTER METER BOX OVER METER SETTER ASSEMBLY AS SHOWN.

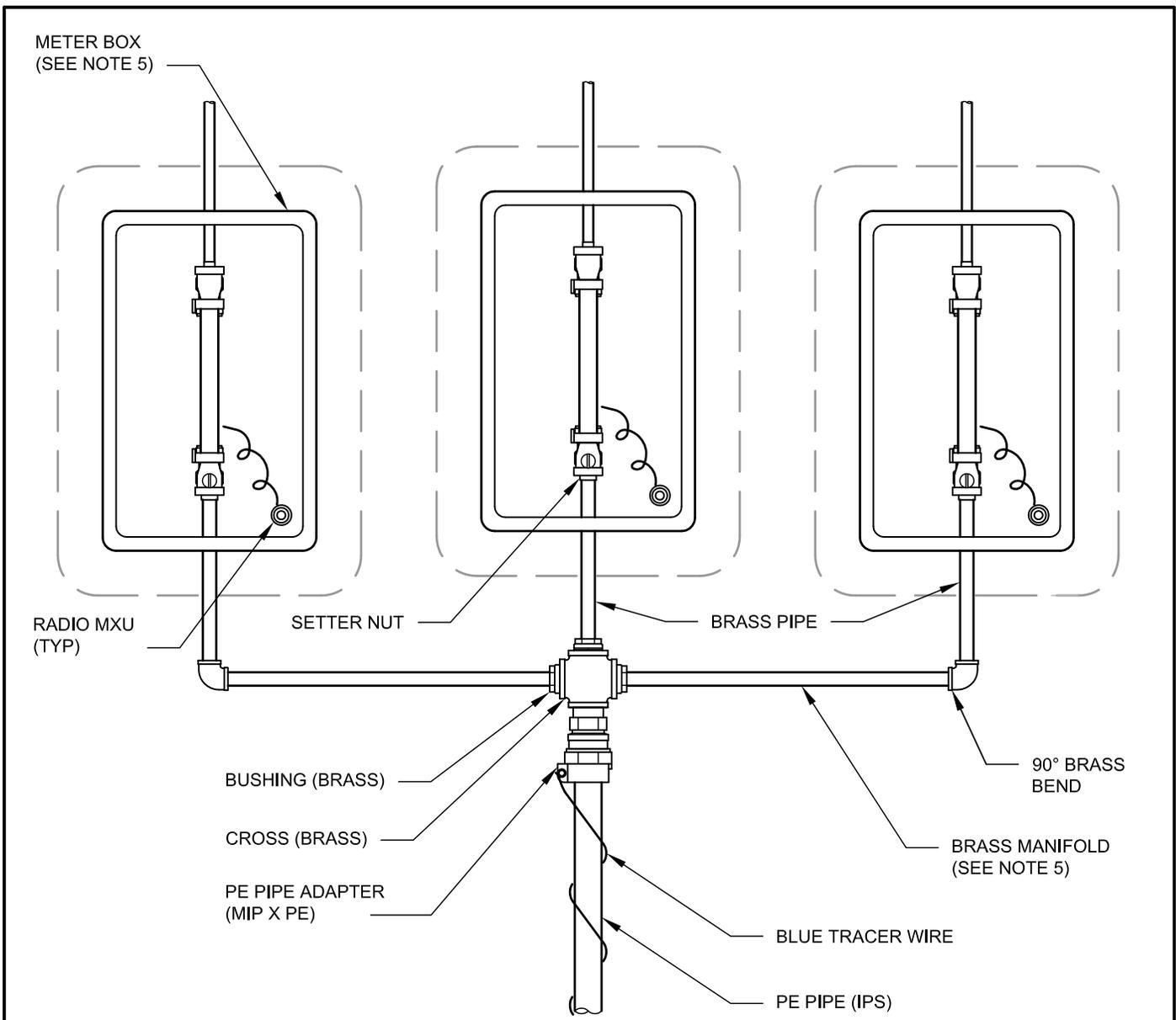
5.

METER SETTER	BRASS MANIFOLD		BRASS BEND	BRASS PIPE		BOX SIZE
	DIA	LENGTH		DIA	LENGTH	
5/8" X 3/4"	3/4"	12"	3/4"	3/4"	12"	13" X 24"
1"	1"	12"	1"	1"	12"	13" X 24"
1 1/2"	1 1/2"	12"	1 1/2"	1 1/2"	12"	17" X 30"

Scott Thomasson
 APPROVED BY: SCOTT THOMASSON
 WATER/WASTEWATER ENGINEERING MANAGER
 REVISION DATE: JULY 01, 2015



STANDARD DETAILS
DOUBLE SERVICE MANIFOLD
 FILE NAME: SD703A.DWG DETAIL NUMBER: **703A**



SEE NOTE 3

PLAN
NTS

NOTES:

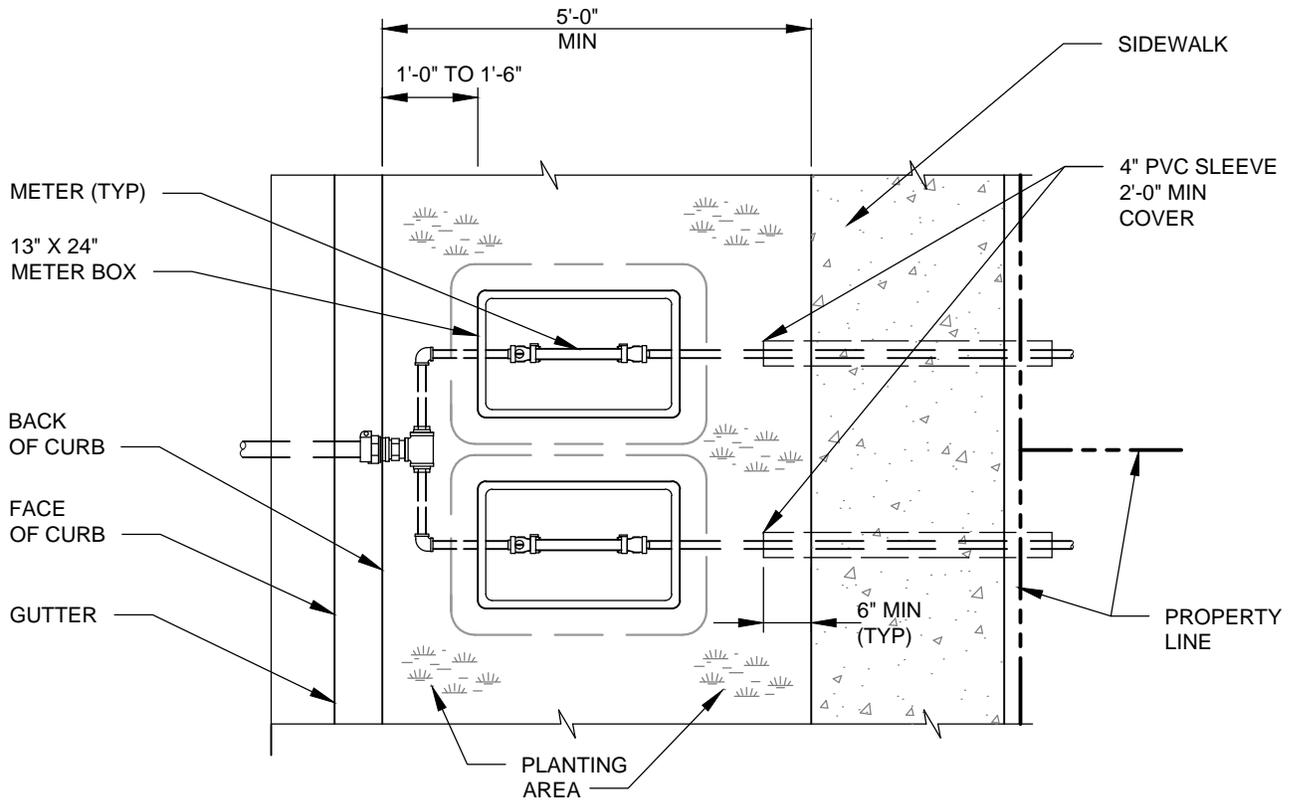
1. ALL METERS SHALL BE INSTALLED IN LANDSCAPE AREAS.
2. TRIPLE SERVICE MANIFOLD SHALL BE USED FOR THE FOLLOWING USES:
 - A. ALL 5/8 INCH X 3/4 INCH AND 1 INCH METERS
 - B. 1- 1/2 INCH SINGLE FAMILY RESIDENTIAL DUAL PURPOSE (DOMESTIC AND FIRE) METERS.
3. USE GATE VALVE CONNECTION. SEE STANDARD DETAIL 701B.
4. CENTER METER BOX OVER METER SETTER ASSEMBLY AS SHOWN.

METER SETTER	BRASS MANIFOLD		BRASS BEND	BRASS PIPE		BOX SIZE
	DIA	LENGTH		DIA	LENGTH	
5/8" X 3/4"	3/4"	24"	3/4"	3/4"	12"	13" X 24"
1"	1"	24"	1"	1"	12"	13" X 24"
1 1/2"	1 1/2"	24"	1 1/2"	1 1/2"	12"	17" X 30"

Scott Thomasson
 APPROVED BY: SCOTT THOMASSON
 WATER/WASTEWATER ENGINEERING MANAGER
 REVISION DATE: JULY 01, 2015



STANDARD DETAILS
TRIPLE SERVICE MANIFOLD
 FILE NAME: SD703B.DWG | DETAIL NUMBER: **703B**

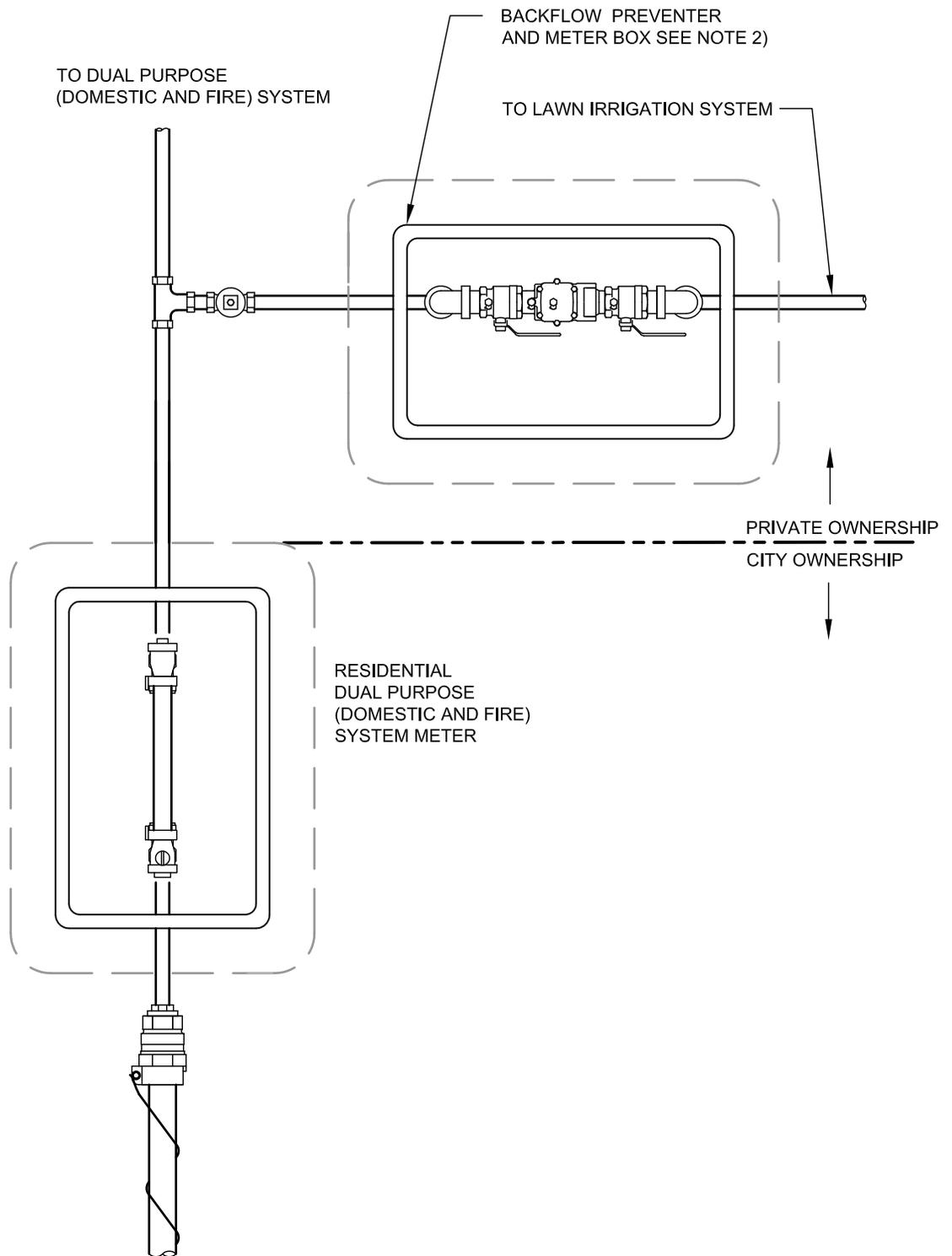


METER BOXES
NTS

NOTES:

1. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER.
2. SEE STANDARD DETAILS 701A, 701B, 702, 703A AND 703B FOR ADDITIONAL DETAILS.

 APPROVED BY: SCOTT THOMASSON WATER/WASTEWATER ENGINEERING MANAGER	 City of Redmond WASHINGTON	STANDARD DETAILS METER BOX LOCATION WITHIN PLANTING AREA
REVISION DATE: JULY 01, 2015		FILE NAME: SD703C.DWG DETAIL NUMBER: 703C



SINGLE METER
NTS

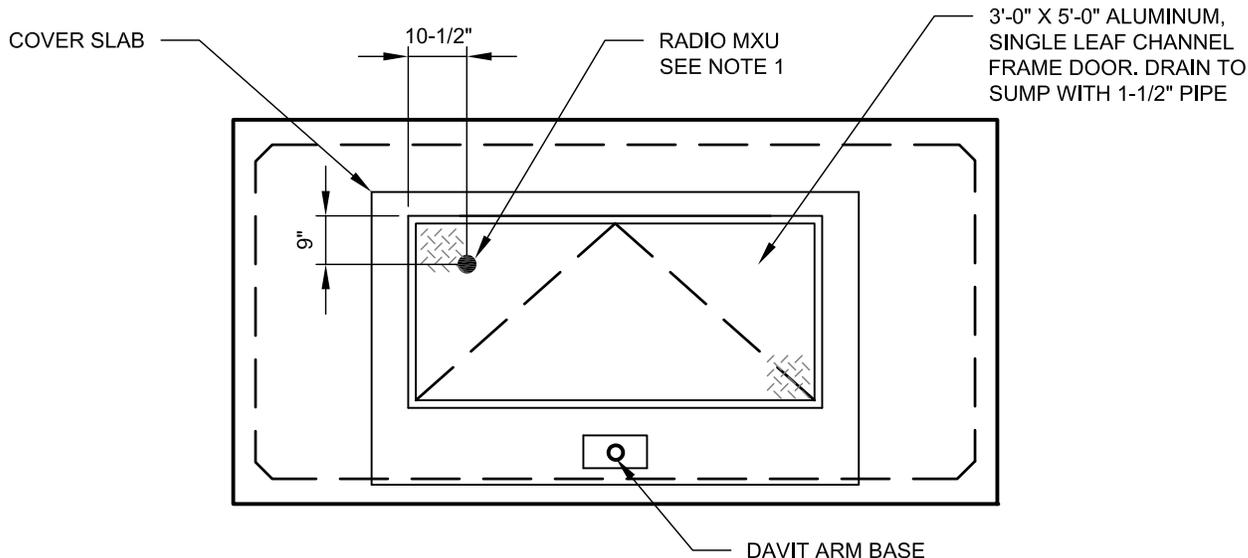
NOTES:

1. SEE STANDARD DETAILS 701A, 702, AND 703 FOR ADDITIONAL DETAILS.
2. SEE STANDARD DETAIL 711 FOR ADDITIONAL INFORMATION ON BACKFLOW PREVENTERS (BFP).

Scott Thomasson
 APPROVED BY: SCOTT THOMASSON
 WATER/WASTEWATER ENGINEERING MANAGER
 REVISION DATE: JULY 01, 2015

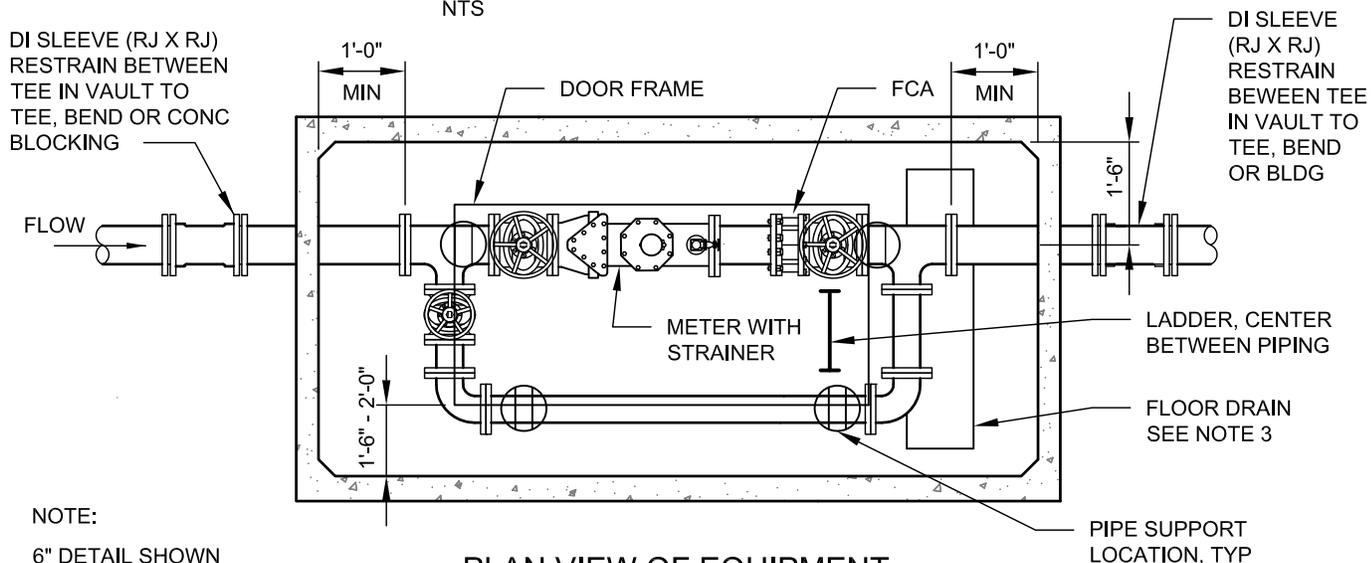


STANDARD DETAILS
RESIDENTIAL FIRE SPRINKLER DETAILS
 FILE NAME: SD704.DWG DETAIL NUMBER: **704**



PLAN VIEW WITH COVER SLAB

NTS



NOTE:
6" DETAIL SHOWN

PLAN VIEW OF EQUIPMENT

NTS

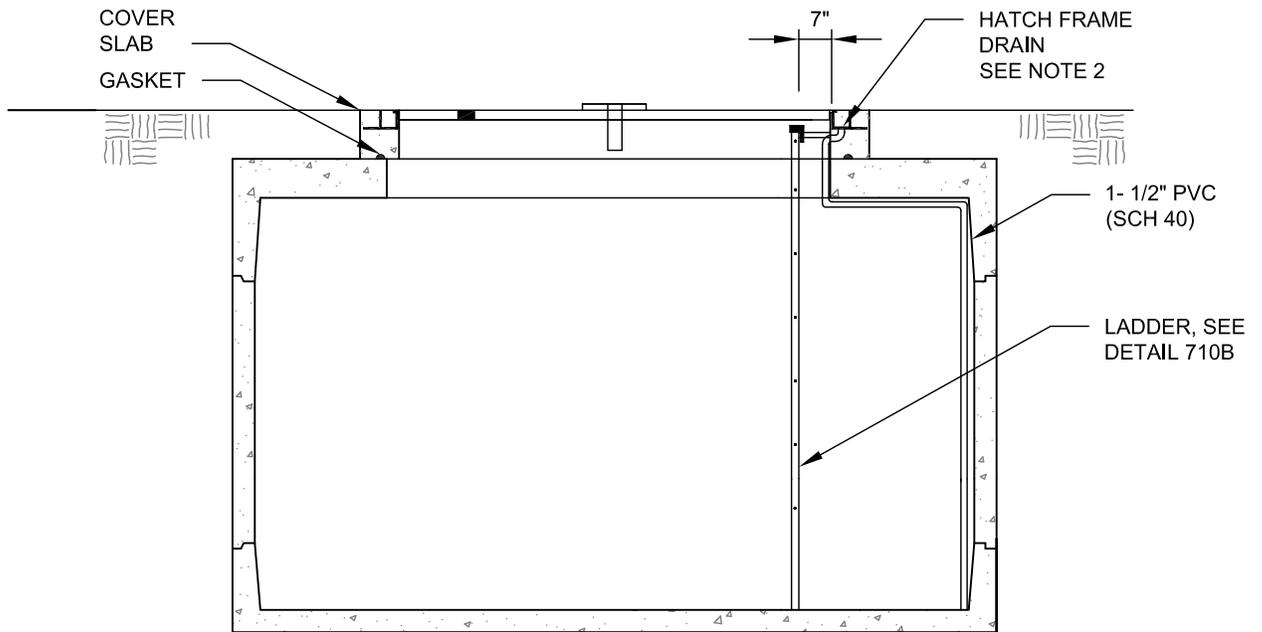
VAULT, FITTINGS AND PIPING SIZING REQUIREMENTS						UTILITY VAULT NO. *
METER SIZE	BYPASS VALVES AND PIPING	BYPASS TEE (FL X FL)	MIN INSIDE VAULT DIM	LEN	WIDTH	HT
3"	3"	3" X 3"	10 FT	6 FT	6 FT	810 - LA
4"	4"	4" X 4"	10 FT	6 FT	6 FT	810 - LA
6"	4"	6" X 4"	12 FT	6 FT	6 FT	810 - LA

* OR APPROVED EQUAL

NOTES:

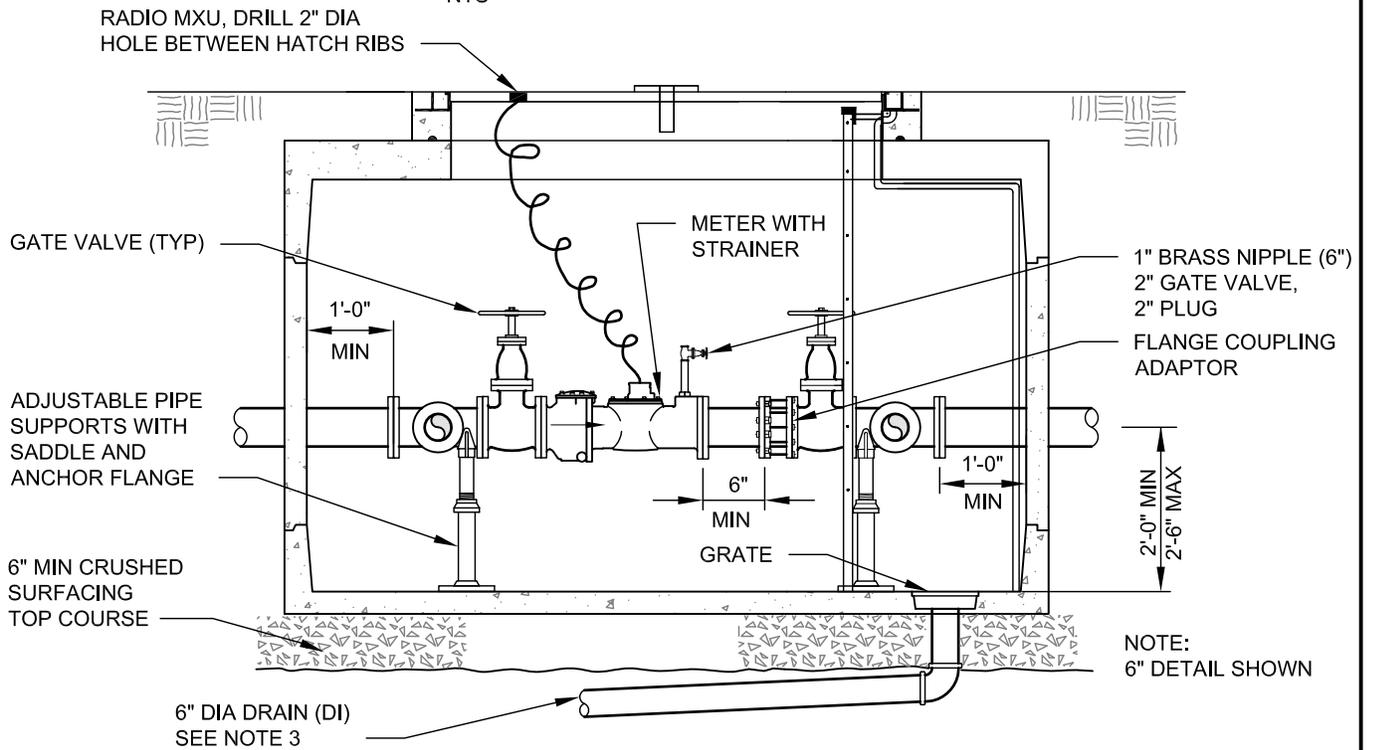
1. VAULT ACCESS HATCH SHALL BE DRILLED FOR INSTALLATION OF RADIO MXU.
2. METER SHALL BE OBTAINED BY THE CONTRACTOR FROM THE SUPPLIER AND DELIVERED TO CITY MAINTENANCE OPERATIONS CENTER FOR STORAGE UNTIL INSTALLATION. WHEN METER APPLICATION IS APPROVED FOR INSTALLATION, INCLUDING PAYMENT OF CONNECTION 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.

 APPROVED BY: SCOTT THOMASSON WATER/WASTEWATER ENGINEERING MANAGER	 City of Redmond WASHINGTON	STANDARD DETAILS	
		WATER METER PLAN VIEW 3", 4", 6" METER DETAILS	
REVISION DATE: JULY 01, 2015		FILE NAME: SD705.DWG	DETAIL NUMBER: 705



SECTION WITH COVER SLAB

NTS



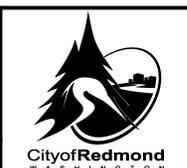
SECTION OF EQUIPMENT

NTS

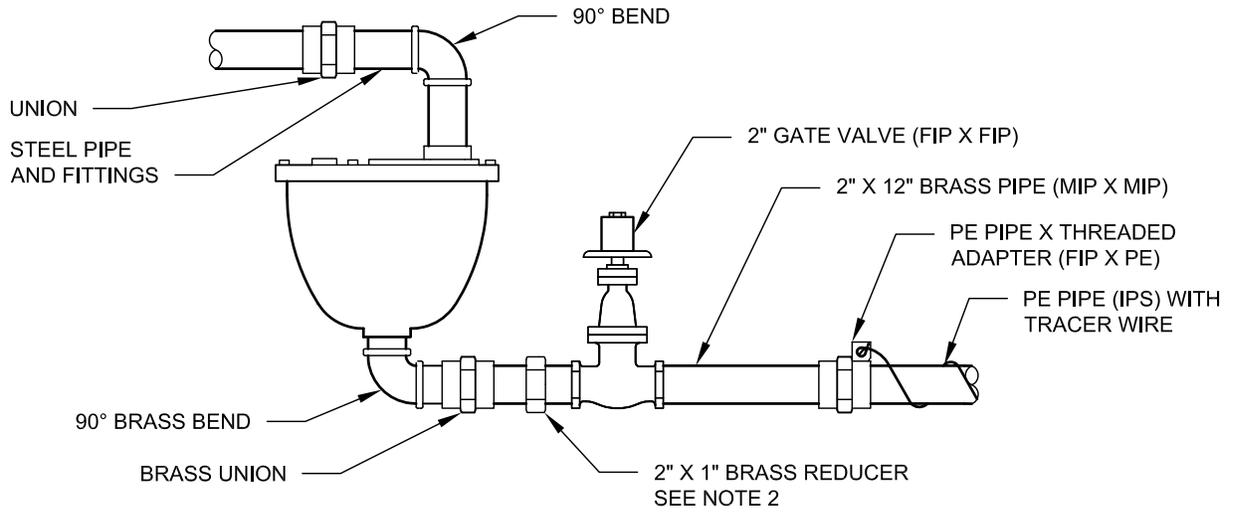
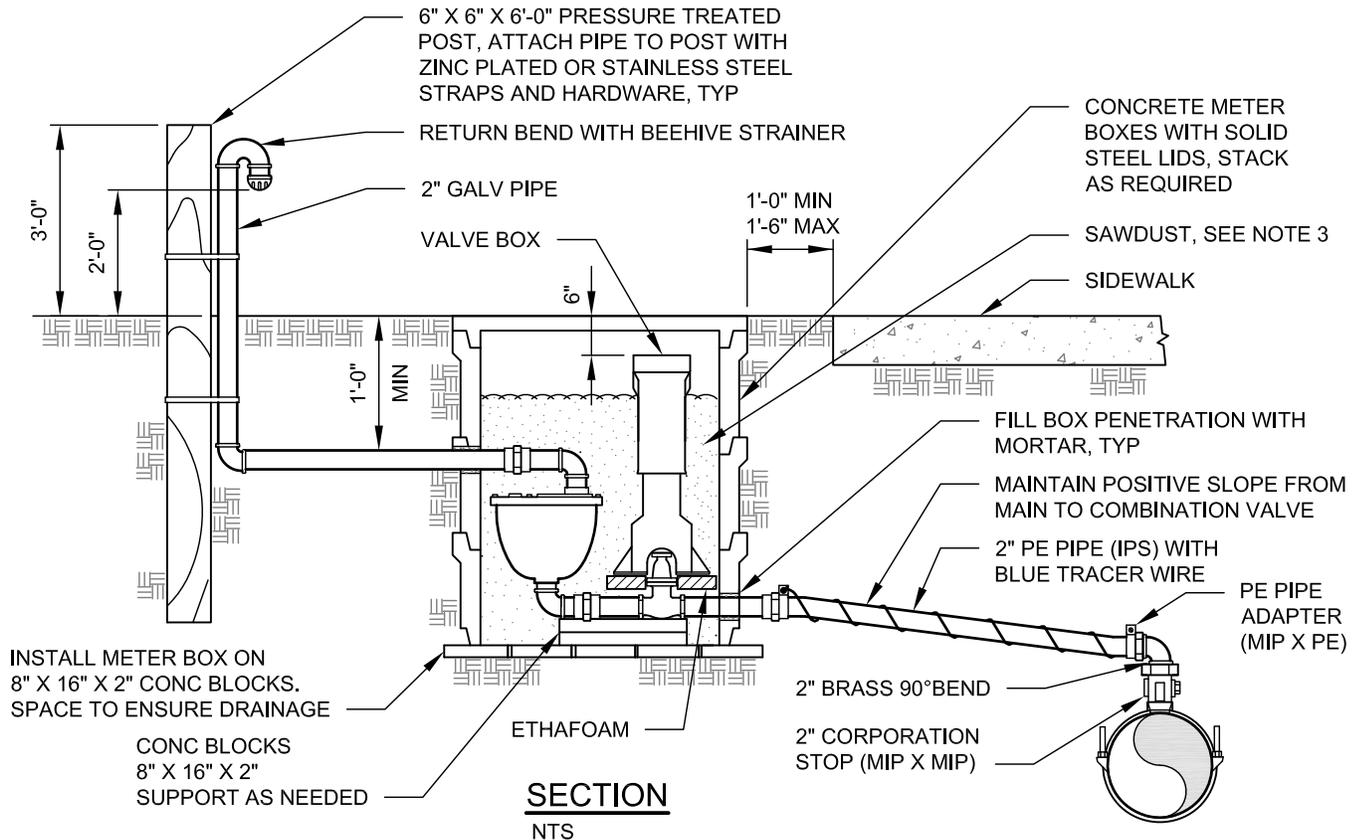
NOTES:

1. SET COVER SLAB FLUSH WITH SIDEWALK OR CURB ELEVATION IF LOCATED IN LAWN AREA. SET COVER SLAB APPROXIMATELY 2 INCHES ABOVE FINISHED GRADE IF LOCATED IN LANDSCAPING AREA.
2. HATCH FRAME DRAIN CAST IN CONCRETE SHALL BE 1 -1/2 INCH BRASS. REMAINDER OF HATCH FRAME DRAIN SHALL BE 1 - 1/2 INCH 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.
3. A GRAVITY VAULT DRAIN (DI) SHALL BE CONNECTED TO STORM SYSTEM AS SHOWN ON THE DRAWINGS.

Scott Thomasson
 APPROVED BY: SCOTT THOMASSON
 WATER/WASTEWATER ENGINEERING MANAGER
 REVISION DATE: JULY 01, 2015



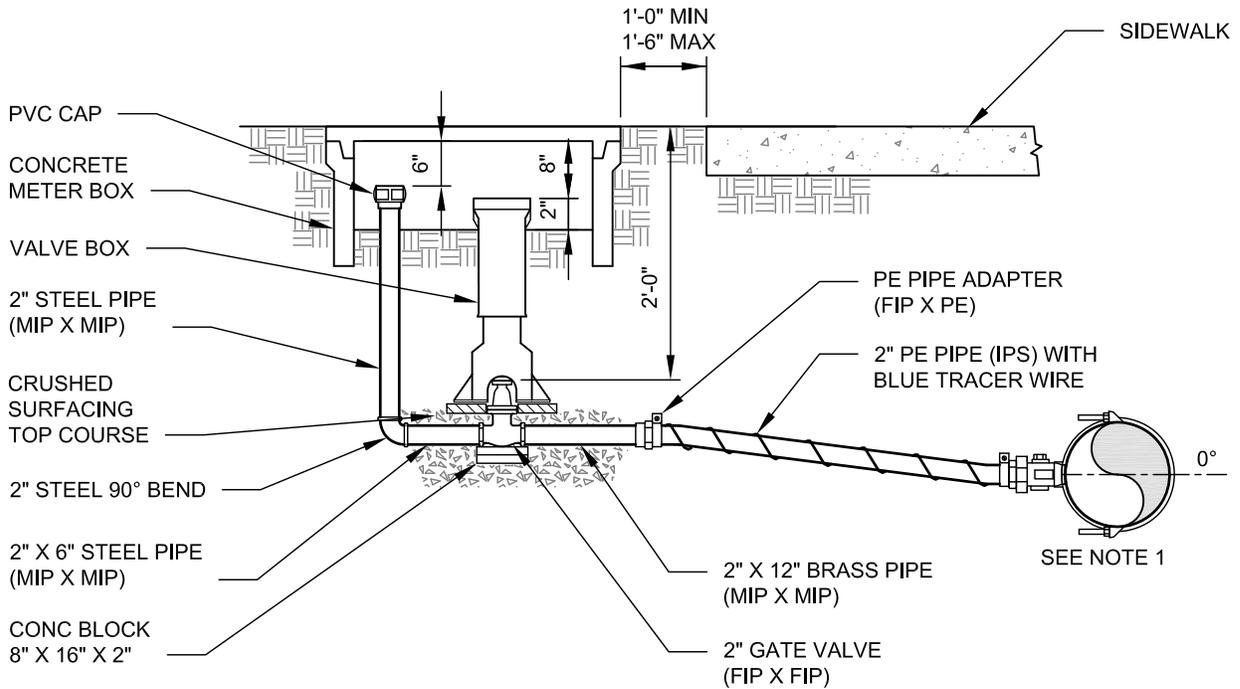
STANDARD DETAILS
WATER METER SECTIONS
3", 4", 6" METER DETAILS
 FILE NAME: SD705A.DWG DETAIL NUMBER: **705A**



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.

 APPROVED BY: SCOTT THOMASSON WATER/WASTEWATER ENGINEERING MANAGER	 City of Redmond WASHINGTON	STANDARD DETAILS COMBINATION AIR RELEASE AND VACUUM VALVE ASSEMBLY
REVISION DATE: JULY 01, 2015		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.

Scott Thomasson

APPROVED BY: SCOTT THOMASSON
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: JULY 01, 2015



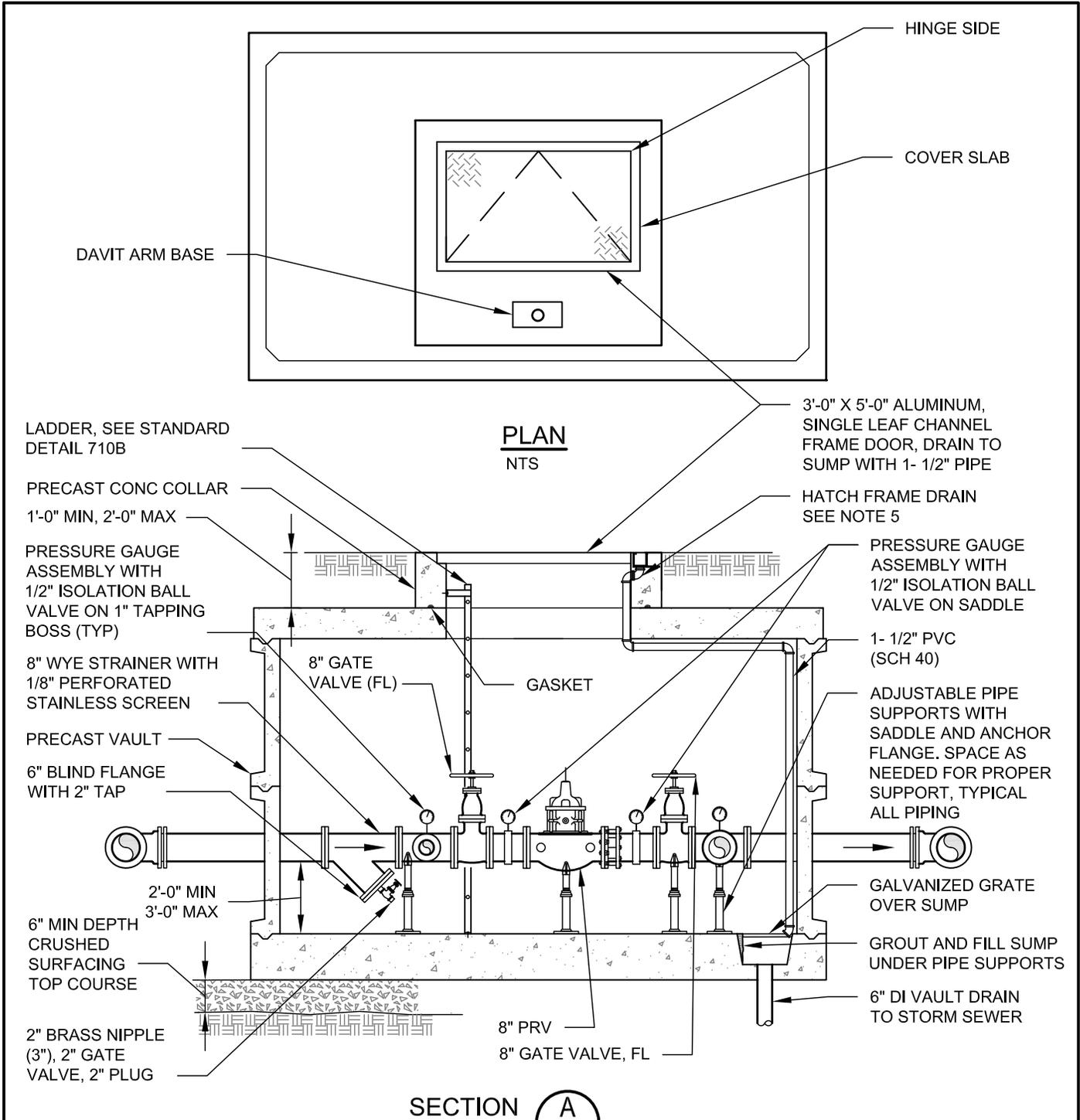
City of Redmond
WASHINGTON

STANDARD DETAILS

BLOW-OFF ASSEMBLY

FILE NAME: SD707.DWG

DETAIL NUMBER: **707**



LADDER, SEE STANDARD
DETAIL 710B

PRECAST CONC COLLAR
1'-0" MIN, 2'-0" MAX

PRESSURE GAUGE
ASSEMBLY WITH
1/2" ISOLATION BALL
VALVE ON 1" TAPPING
BOSS (TYP)

8" WYE STRAINER WITH
1/8" PERFORATED
STAINLESS SCREEN

PRECAST VAULT
6" BLIND FLANGE
WITH 2" TAP

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

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

PLAN
NTS

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

HATCH FRAME DRAIN
SEE NOTE 5

PRESSURE GAUGE
ASSEMBLY WITH
1/2" ISOLATION BALL
VALVE ON SADDLE

1- 1/2" PVC
(SCH 40)

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

6" DI VAULT DRAIN
TO STORM SEWER

SECTION A
NTS 708

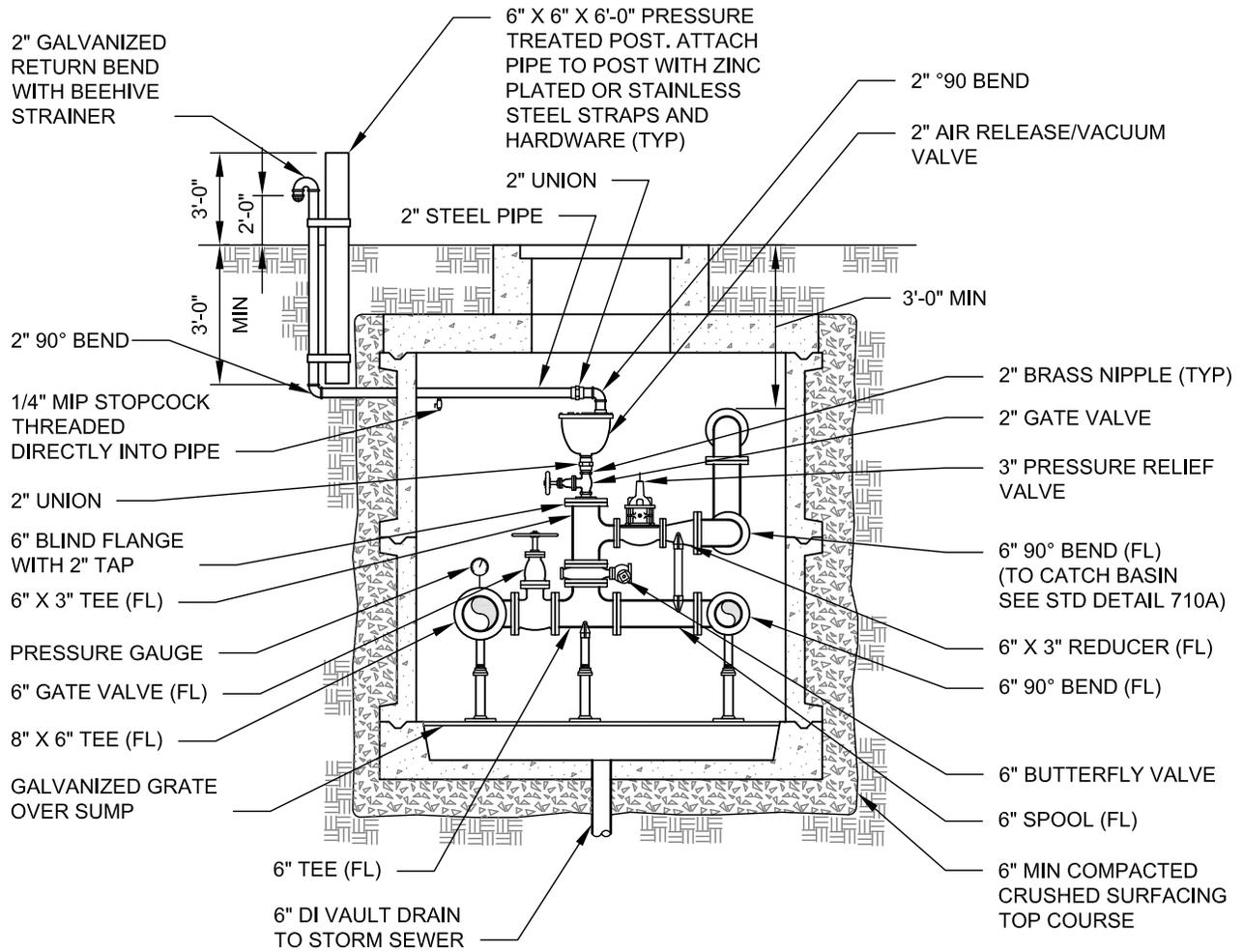
NOTES:

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 INCH BRASS. REMAINDER OF HATCH FRAME DRAIN SHALL BE 1-1/2 INCH 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.

Scott Thomasson
APPROVED BY: SCOTT THOMASSON
WATER/WASTEWATER ENGINEERING MANAGER
REVISION DATE: JULY 01, 2015



STANDARD DETAILS
6" AND 8" PRV STATION
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.

Scott Thomasson

APPROVED BY: SCOTT THOMASSON
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: JULY 01, 2015

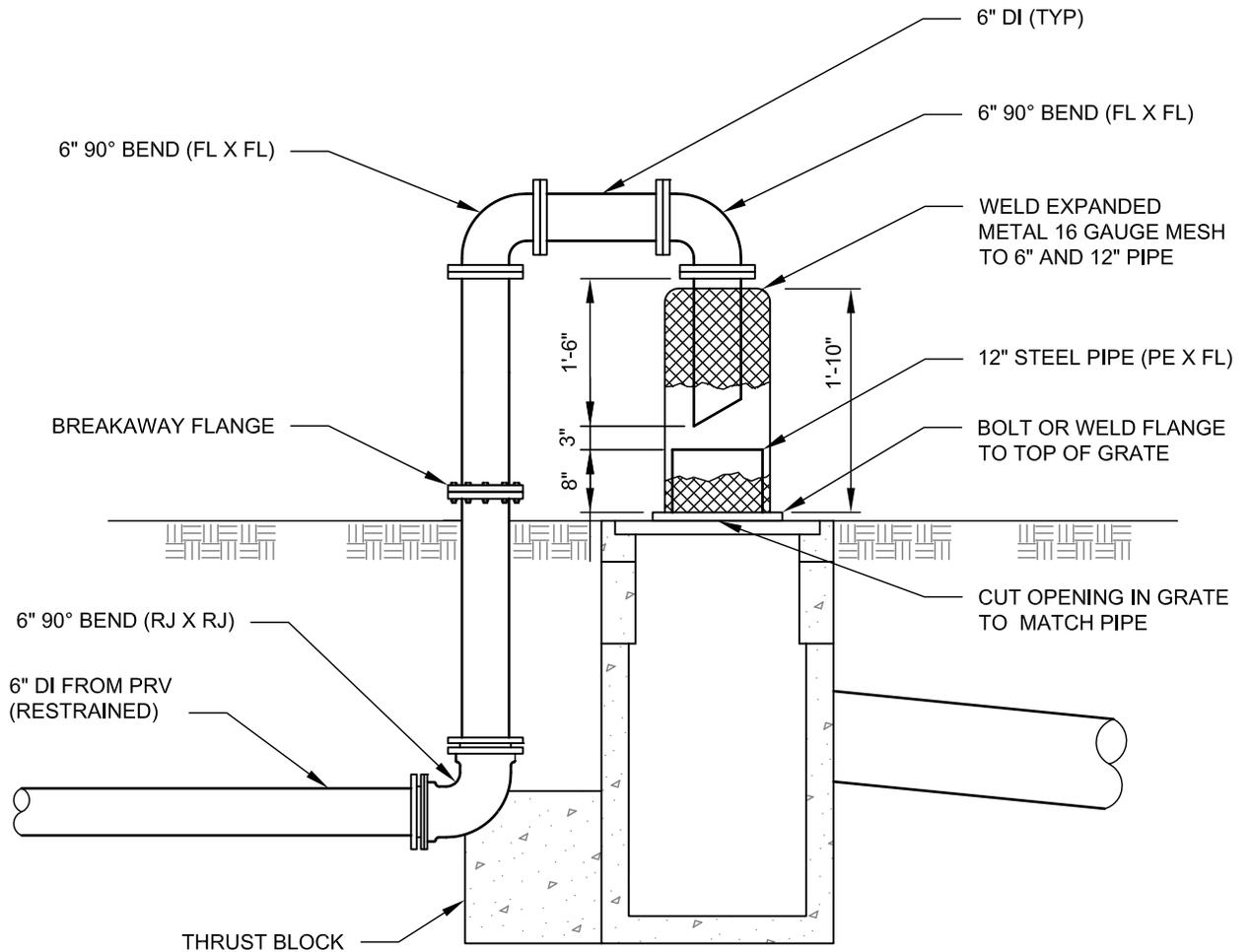


City of Redmond
WASHINGTON

STANDARD DETAILS

**6" AND 8" PRV
STATION SECTION**

FILE NAME: SD709B.DWG DETAIL NUMBER: **709B**



CATCH BASIN DETAIL

NTS

NOTE:

PAINT ALL EXPOSED PIPING AND FITTINGS ABOVE GRADE.

Scott Thomasson

APPROVED BY: SCOTT THOMASSON
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: JULY 01, 2014

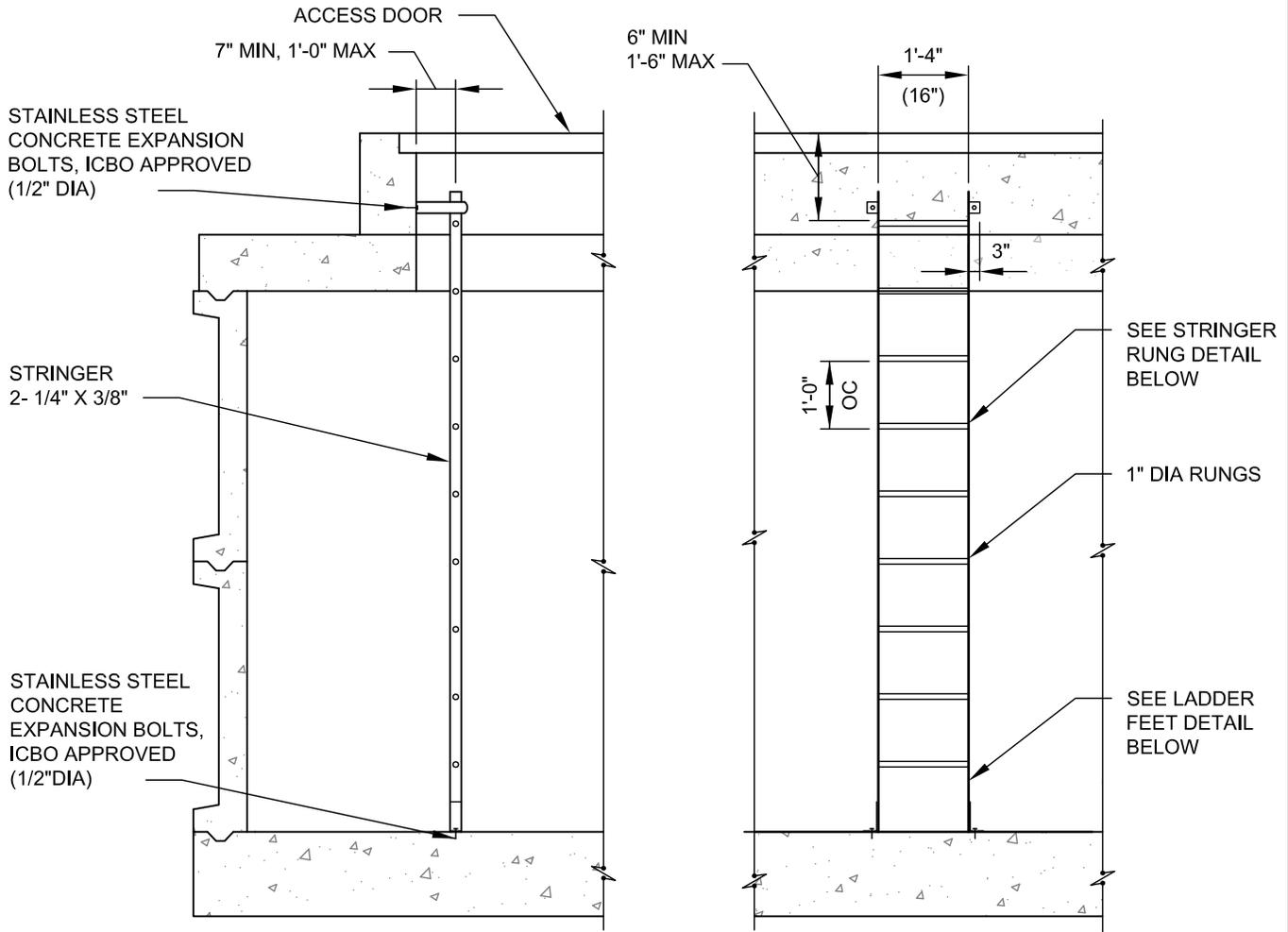


City of Redmond
WASHINGTON

STANDARD DETAILS

**6" AND 8" PRV STATION
MISC DETAILS**

FILE NAME: SD710A.DWG DETAIL NUMBER: **710A**

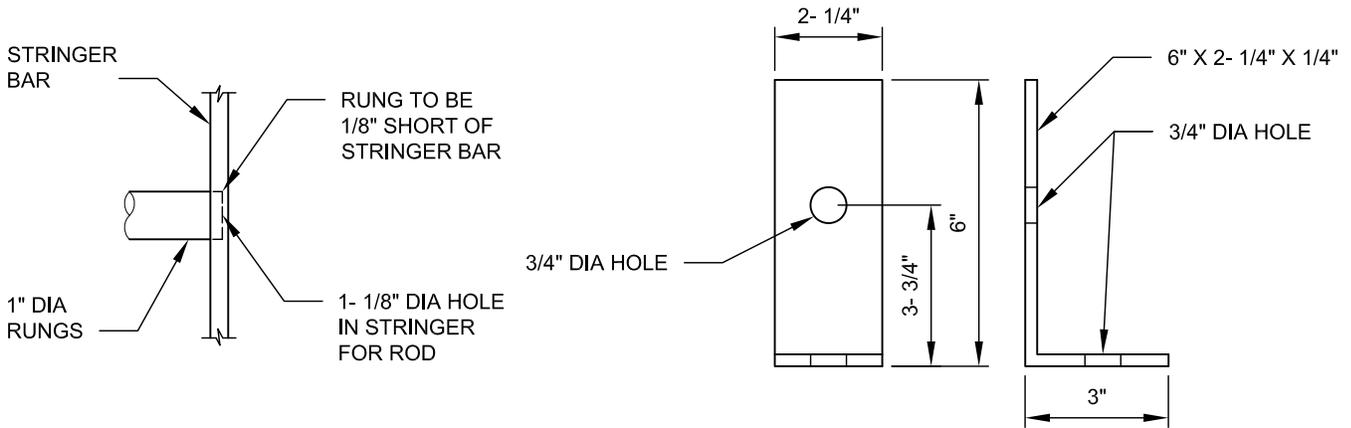


NOTES:

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

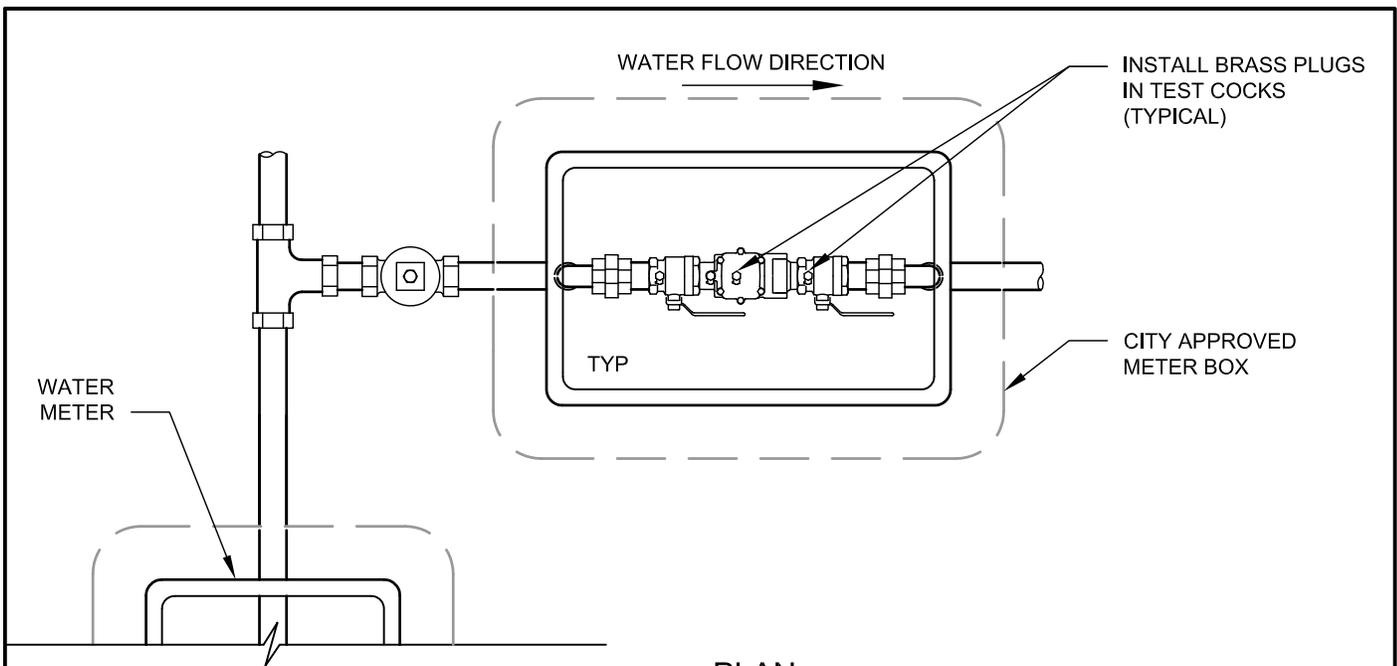
LADDER FEET DETAIL

NTS

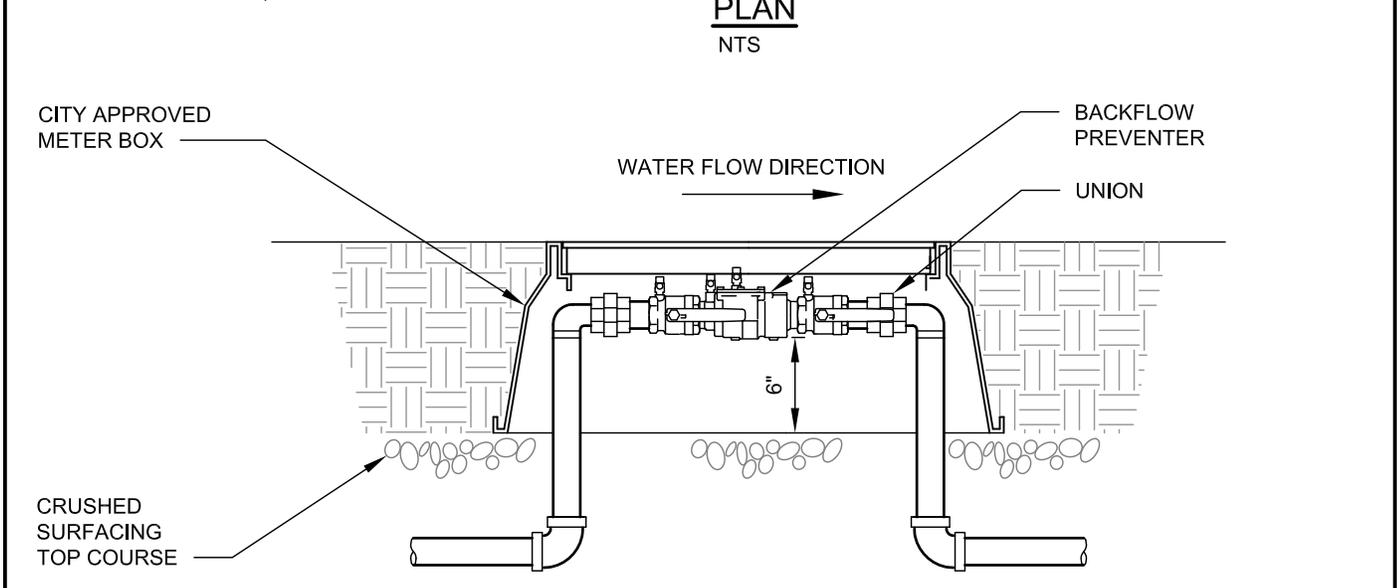
Scott Thomasson
 APPROVED BY: SCOTT THOMASSON
 WATER/WASTEWATER ENGINEERING MANAGER
 REVISION DATE: JULY 01, 2015



STANDARD DETAILS
WATER METER VAULT AND PRV STATION LADDER DETAILS
 FILE NAME: SD710B.DWG | DETAIL NUMBER: **710B**



PLAN
NTS

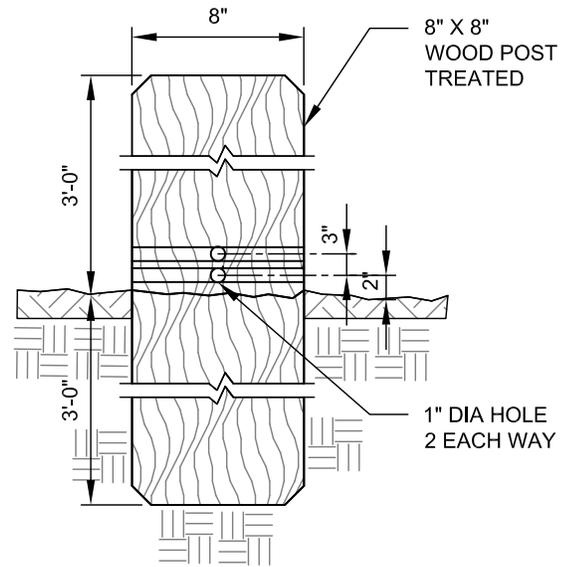
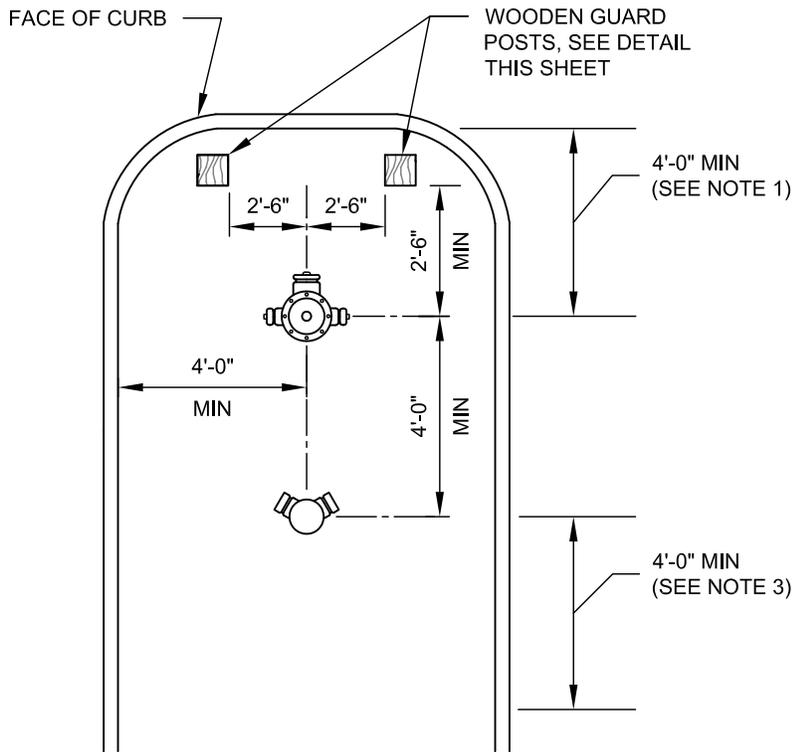


ELEVATION
NTS

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 IN A SEPARATE IRRIGATION VALVE BOX.

 APPROVED BY: SCOTT THOMASSON WATER/WASTEWATER ENGINEERING MANAGER	 City of Redmond WASHINGTON	STANDARD DETAILS IRRIGATION BACKFLOW PREVENTER (3/4" - 2")
REVISION DATE: JULY 01, 2015		FILE NAME: SD711.DWG DETAIL NUMBER: 711

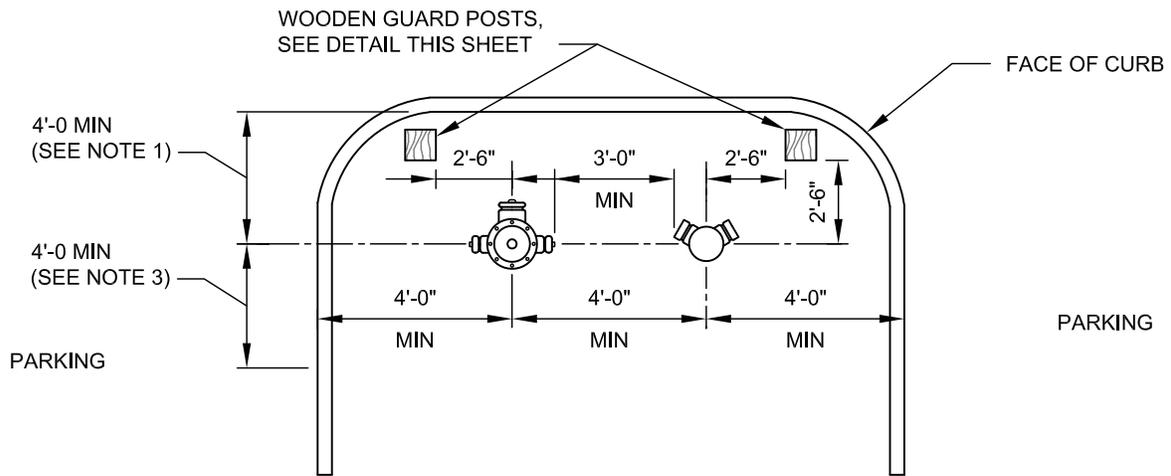


GUARD POST DETAIL

NTS

UNOBSTRUCTED ACCESS ROADWAY

NTS



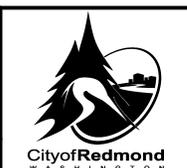
UNOBSTRUCTED ACCESS ROADWAY

NTS

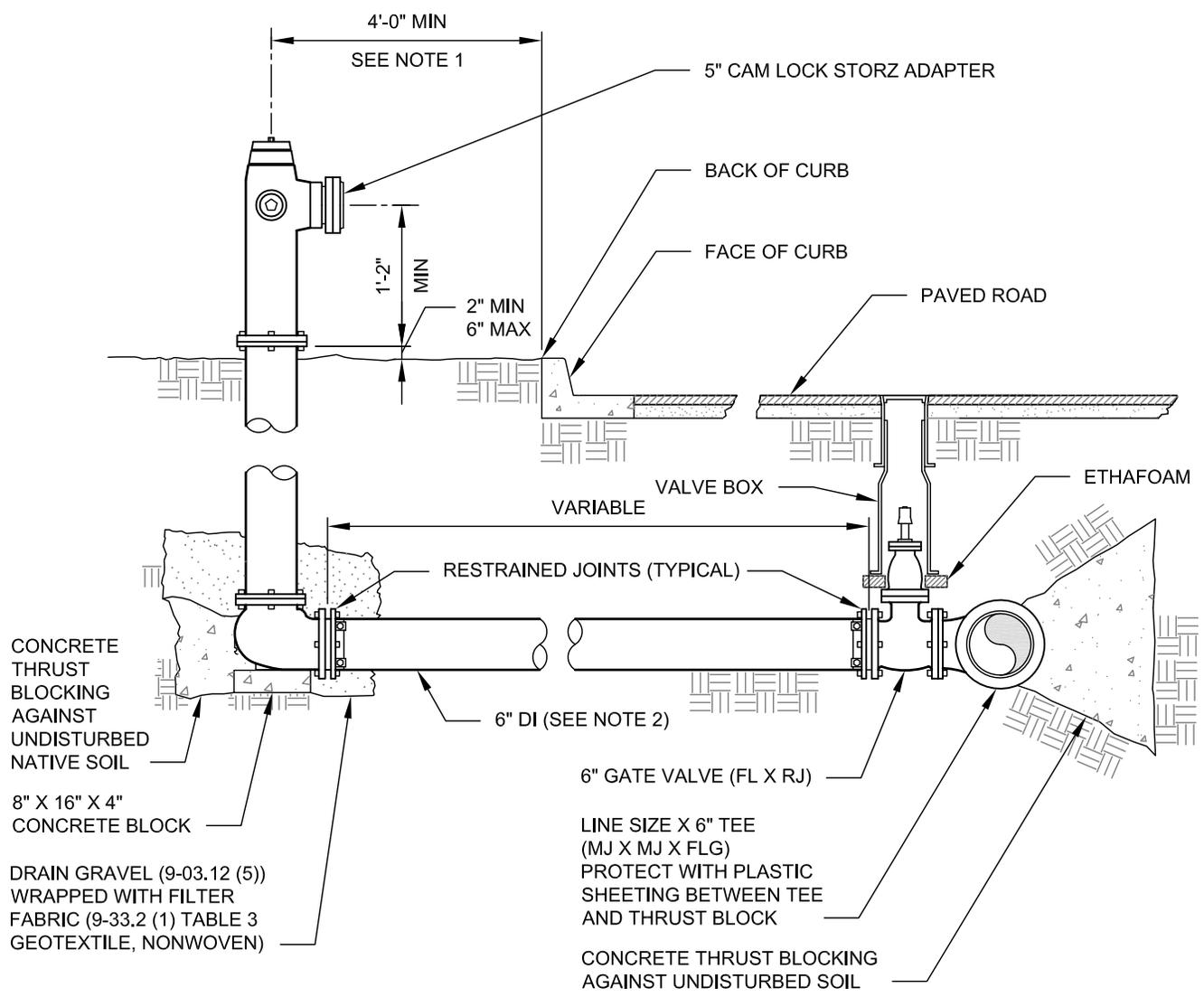
NOTES:

1. GUARD POSTS ARE REQUIRED IF HYDRANT AND/OR FIRE DEPARTMENT CONNECTION ARE LESS THAN 4 FEET FROM CURB LINE, OR WHEN OTHERWISE DETERMINED NECESSARY BY THE FIRE MARSHAL OR WATER DEPARTMENT.
2. ONLY GROUND COVER LANDSCAPING SHALL BE PLANTED WITHIN DIMENSIONED AREAS.
3. A 4 FOOT MINIMUM AREA SHALL BE FREE FROM PLANTS OR SHRUBS OR OTHER OBSTRUCTIONS.
4. A 8 FOOT MINIMUM AREA SHALL BE FREE FROM TREES.
5. INSTALL 3/4 INCH VIKING AUTOMATIC BALL DRIP VALVE IN ACCORDANCE WITH NFPA STANDARDS. PLACE SADDLE ON HORIZONTAL PIPING (FDC LINE) 2 FEET FROM FITTING TO FDC.


 APPROVED BY: SCOTT THOMASSON
 WATER/WASTEWATER ENGINEERING MANAGER
 REVISION DATE: JULY 01, 2015

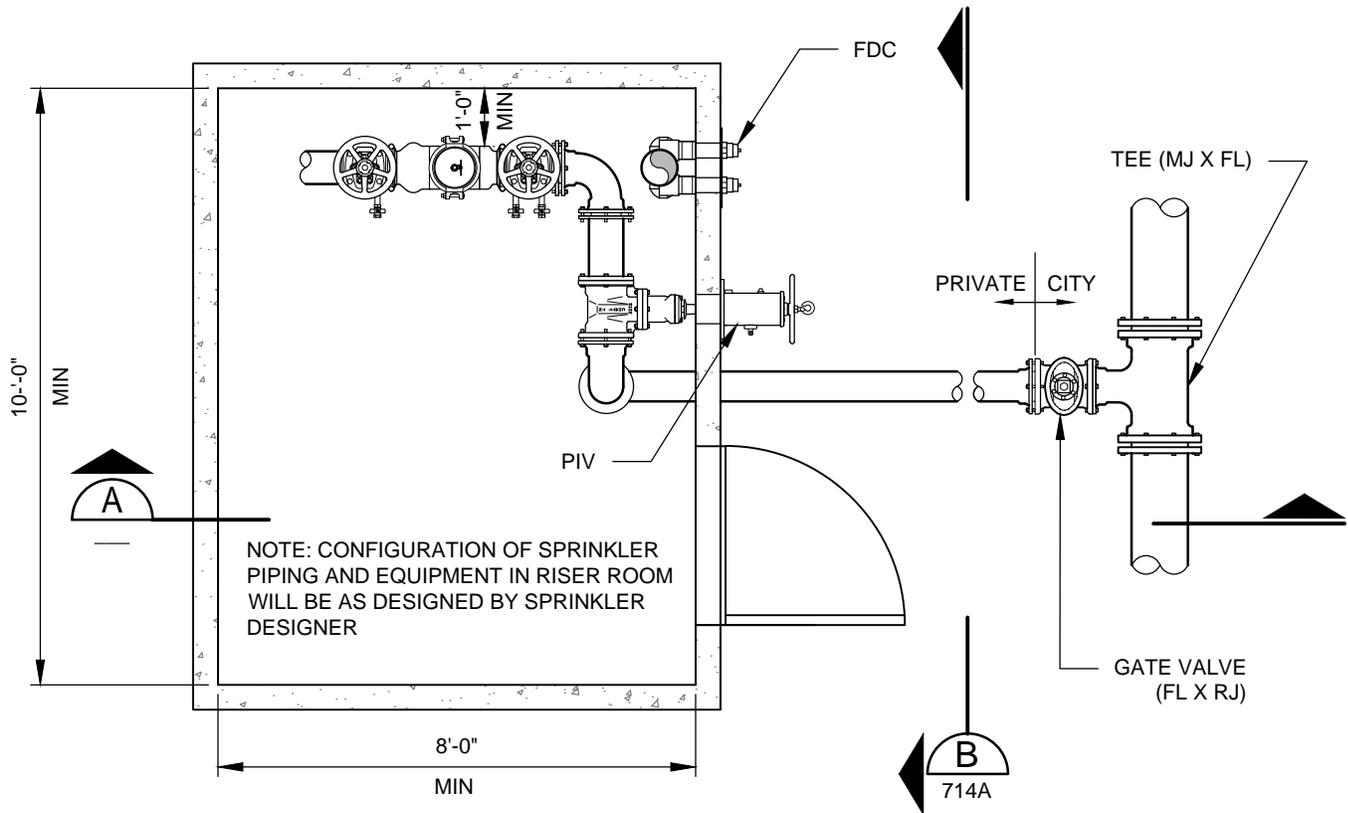


STANDARD DETAILS	
FIRE HYDRANT AND STANDPIPE LOCATION	
FILE NAME: SD712.DWG	DETAIL NUMBER: 712

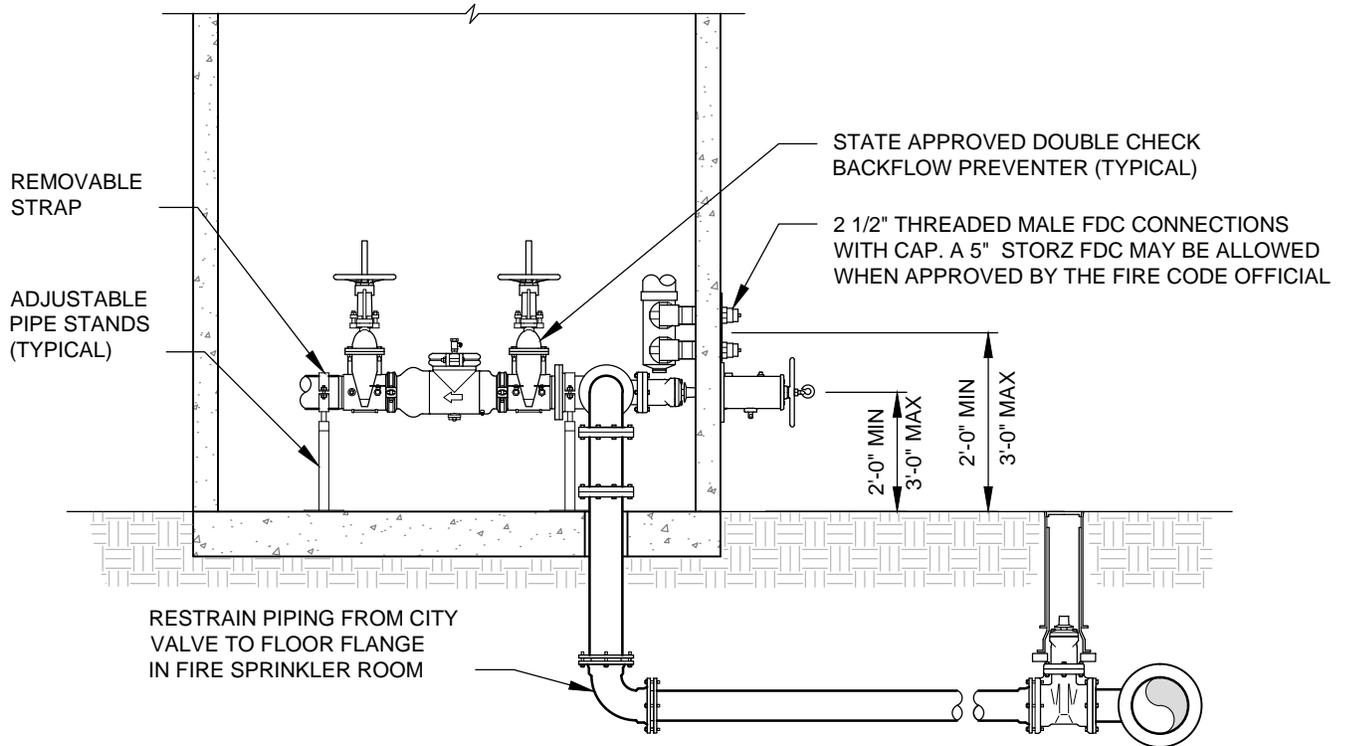


NOTES:

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.

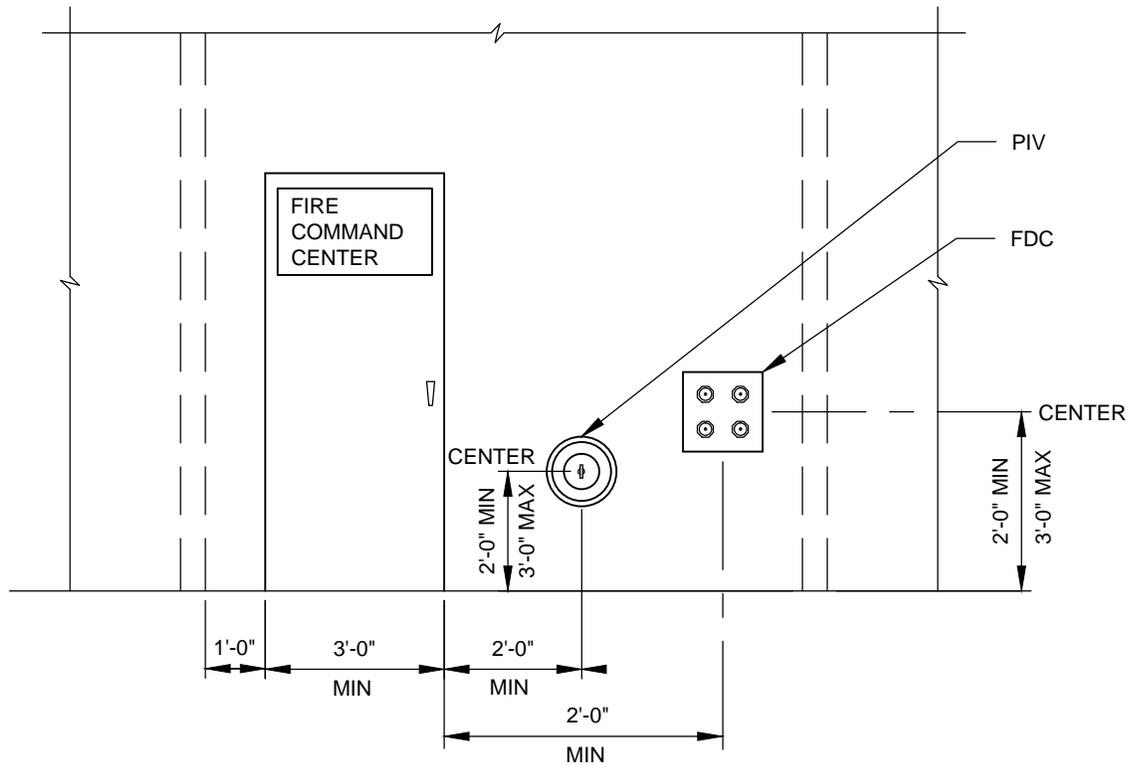


RISER ROOM PLAN
NTS



SECTION A
NTS

 APPROVED BY: TODD SHORT ASSISTANT FIRE MARSHAL	 City of Redmond WASHINGTON	STANDARD DETAILS	
		FIRE SPRINKLER SYSTEM BACKFLOW PREVENTER	
REVISION DATE: MARCH 01, 2016		FILE NAME: SD714.DWG	DETAIL NUMBER: 714



SECTION B
 NTS 714

NOTES:

1. PIVs AND FDCs SHALL BE LOCATED AT LEAST 40 FEET FROM BUILDINGS WHERE SITE CONDITIONS ALLOW. WALL MOUNTED PIV'S AND FDC'S MAY BE USED WHEN APPROVED BY THE FIRE CODE OFFICIAL.
2. FDC CONNECTION SHOWN IS FOR A FOUR WAY SYSTEM. OTHER CONFIGURATIONS ARE ALLOWED. REFER TO APPROVED FIRE SYSTEM DRAWINGS FOR FDC SIZE AND TYPE.

Todd Short
 APPROVED BY: TODD SHORT
 ASSISTANT FIRE MARSHAL

REVISION DATE: MARCH 01, 2016

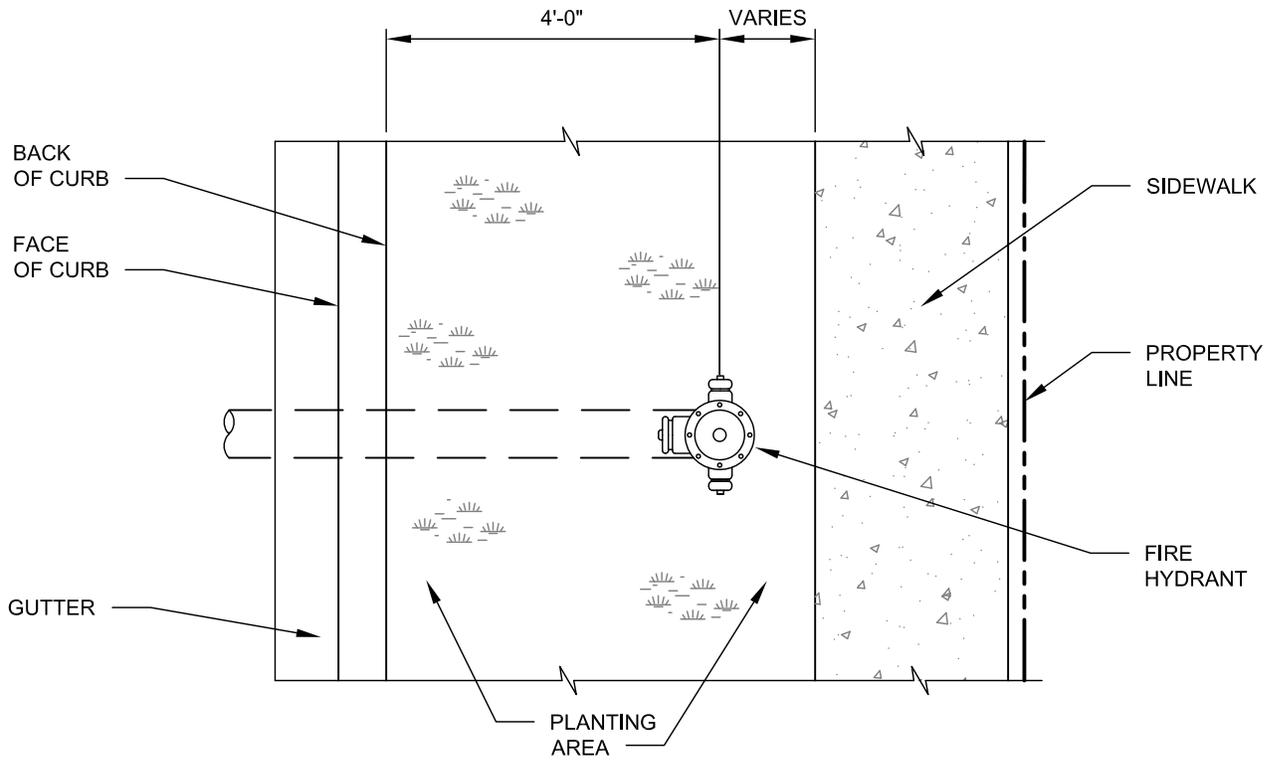


STANDARD DETAILS

FIRE SPRINKLER SYSTEM
 BACKFLOW PREVENTER

FILE NAME: SD714.DWG

DETAIL NUMBER: 714A



FIRE HYDRANT

NTS

Scott Thomasson

APPROVED BY: SCOTT THOMASSON
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: JULY 01, 2014



City of Redmond
WASHINGTON

STANDARD DETAILS

**HYDRANT LOCATION
WITHIN PLANTING AREA**

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)

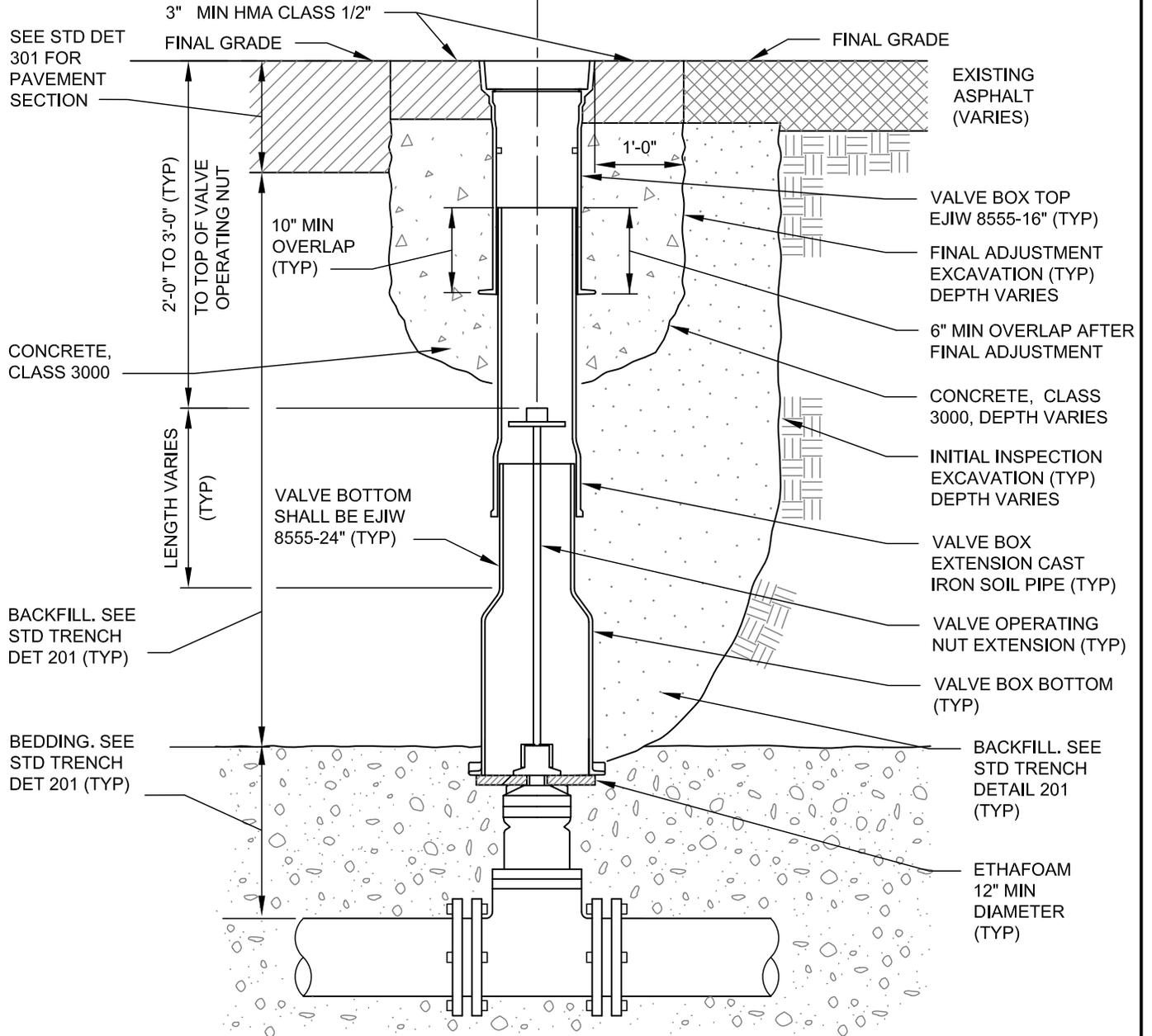


PLAN

NTS

NEW CONSTRUCTION

ADJUSTMENT OF EXISTING VALVE BOX IN PAVEMENT



SECTION

NTS

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.

Scott Thomasson

APPROVED BY: SCOTT THOMASSON
WATER/WASTEWATER ENGINEERING MANAGER

REVISION DATE: JULY 01, 2015



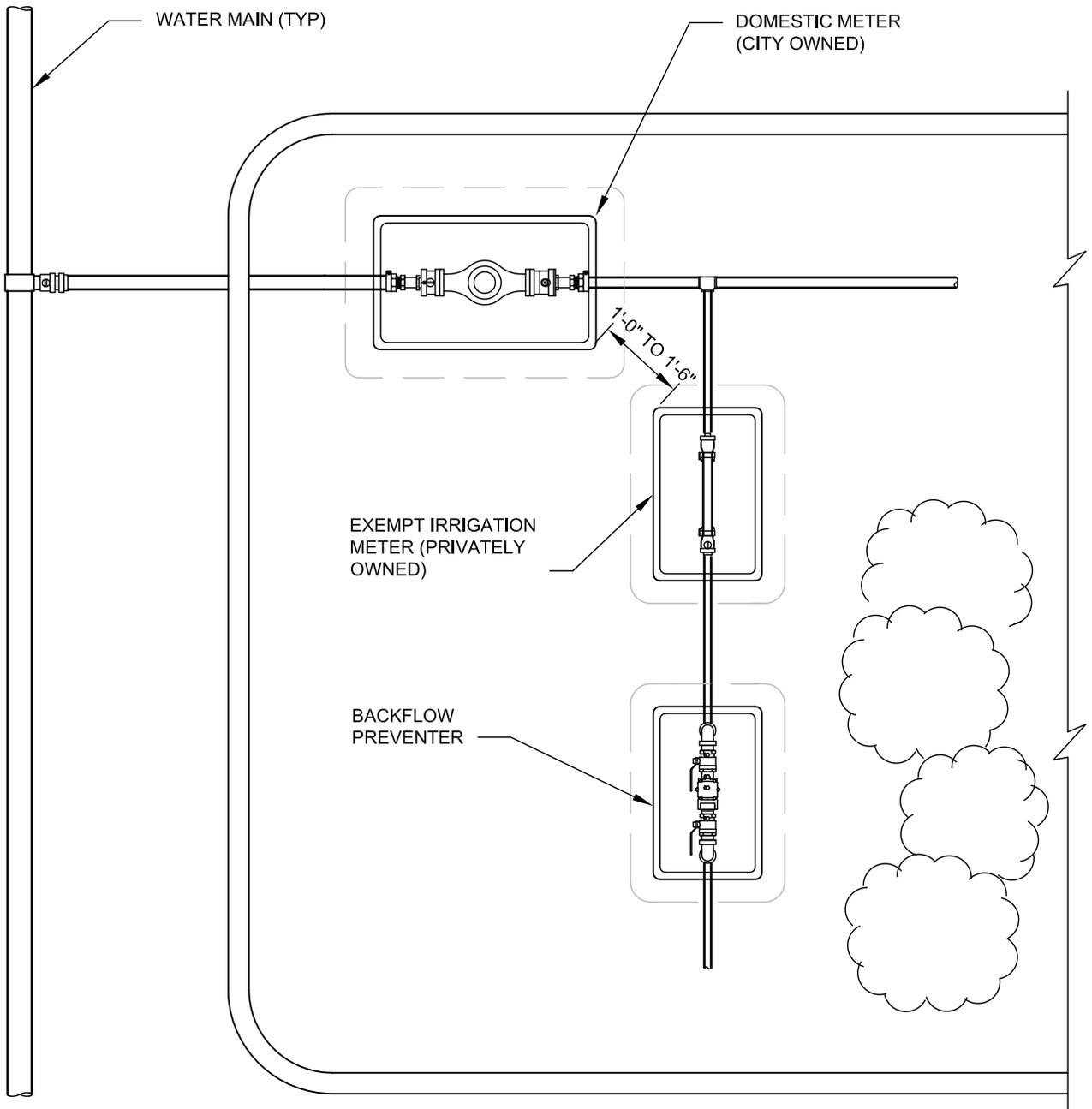
City of Redmond
WASHINGTON

STANDARD DETAILS

VALVE BOX DETAIL

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 BETWEEN 1 FOOT TO 1 FOOT 6 INCHES FROM THE CITY WATER METER.
3. INSTALL EXEMPT METER SETTER IN ACCORDANCE WITH STANDARD DETAIL 702.

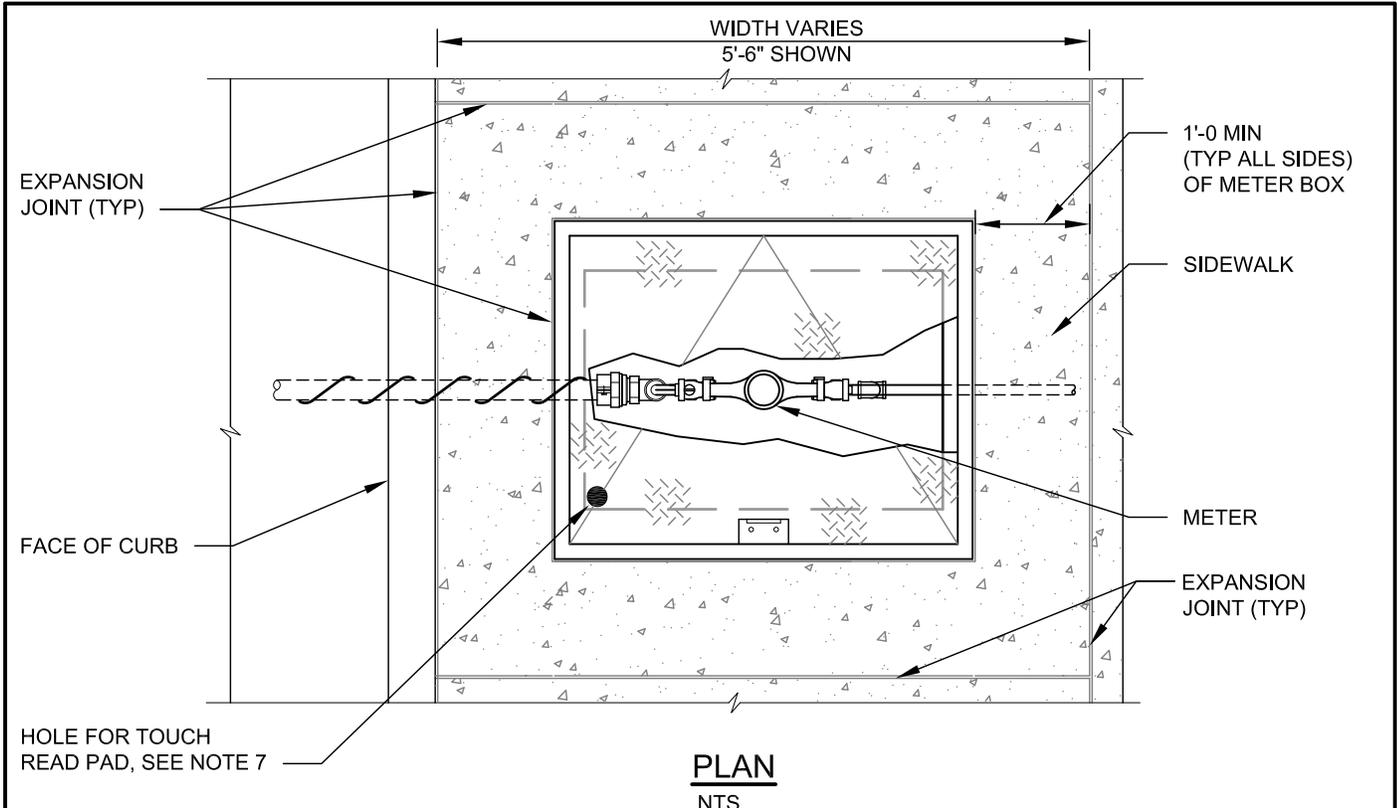

 APPROVED BY: SCOTT THOMASSON
 WATER/WASTEWATER ENGINEERING MANAGER
 REVISION DATE: JULY 01, 2014



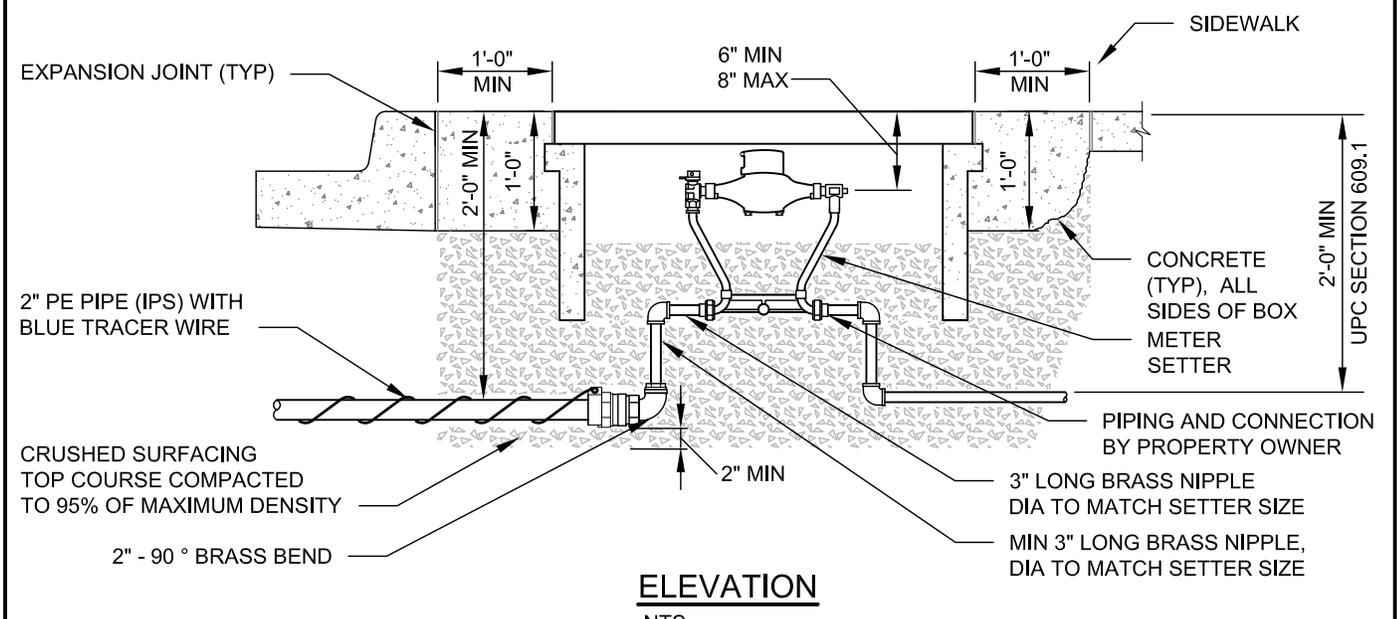
STANDARD DETAILS

**EXEMPT IRRIGATION METER
LOCATION REQUIREMENTS**

FILE NAME: SD719.DWG DETAIL NUMBER: **719**



PLAN
NTS

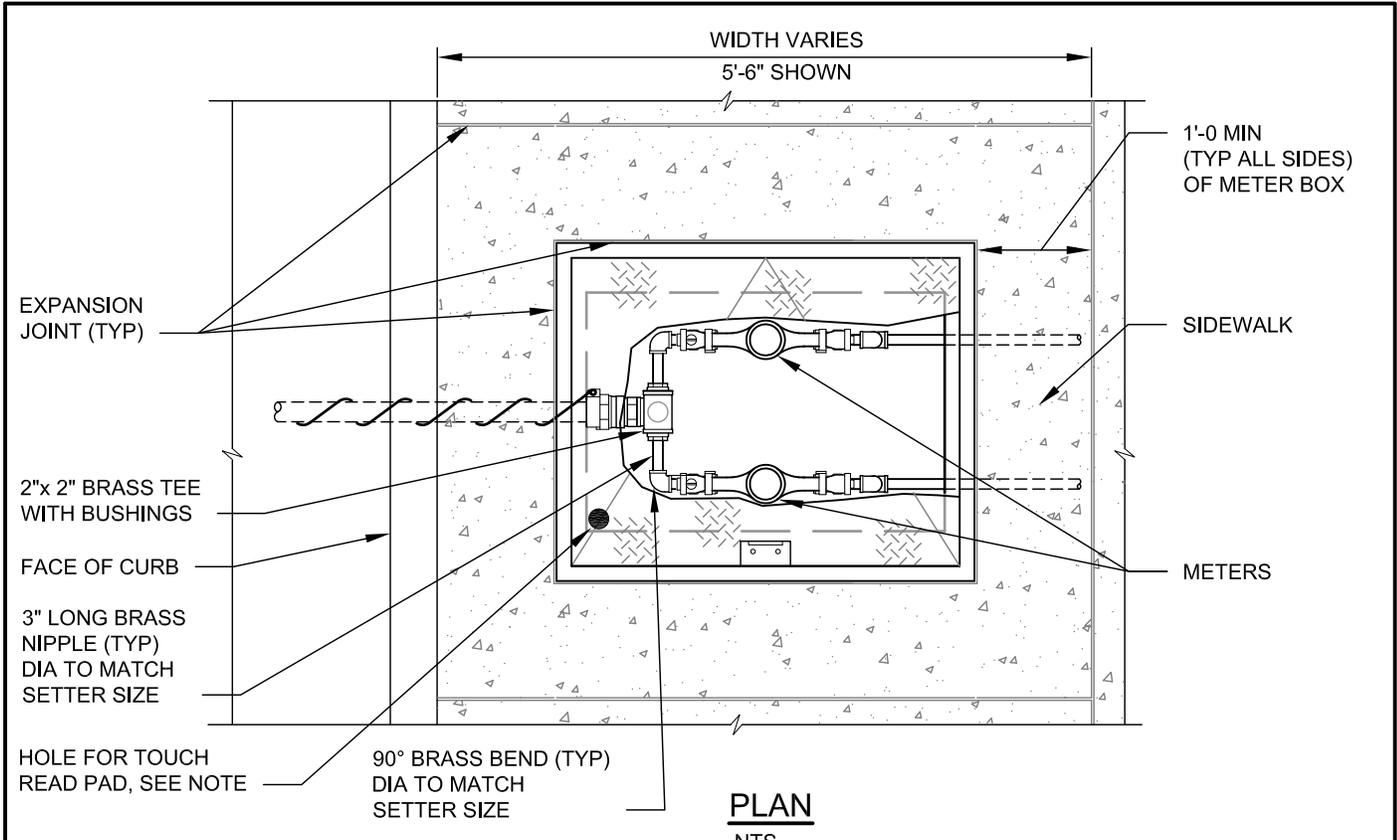


ELEVATION
NTS

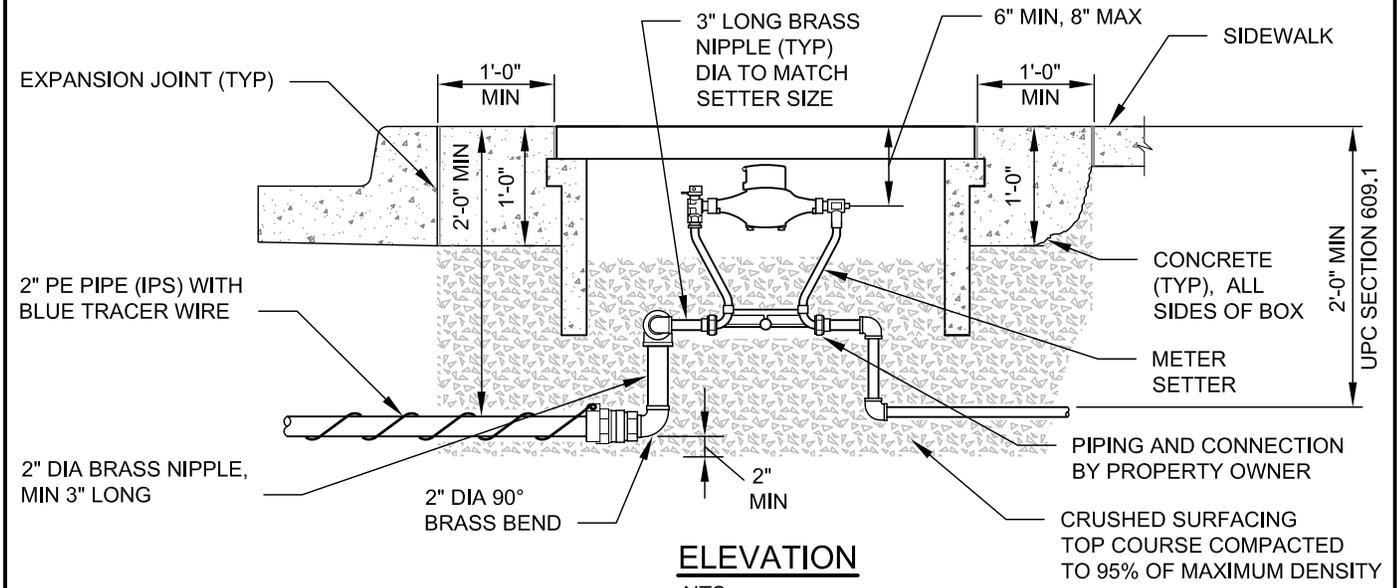
NOTES:

1. THIS INSTALLATION SHALL ONLY BE USED IN URBAN STREETSAPES WHERE LANDSCAPE AREAS ARE NOT AVAILABLE AND WHERE APPROVED BY THE CITY.
2. SEE STANDARD DETAIL 701A FOR ADDITIONAL DETAILS.
3. SET METER BOX FLUSH WITH SIDEWALK.
4. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER.
5. ALL FITTINGS SHALL BE BRASS.
6. METER(S) SHALL BE CENTERED IN THE BOX TO MAINTAIN EVEN CLEARANCE FROM EDGES OF BOX.
7. TOUCH READ PAD HOLE TO BE DRILLED BY THE CITY.

 APPROVED BY: SCOTT THOMASSON WATER/WASTEWATER ENGINEERING MANAGER	 City of Redmond WASHINGTON	STANDARD DETAILS 5/8" X 3/4" AND 1" METER IN SIDEWALK
REVISION DATE: JULY 01, 2015	FILE NAME: SD720.DWG DETAIL NUMBER: 720	



PLAN
NTS

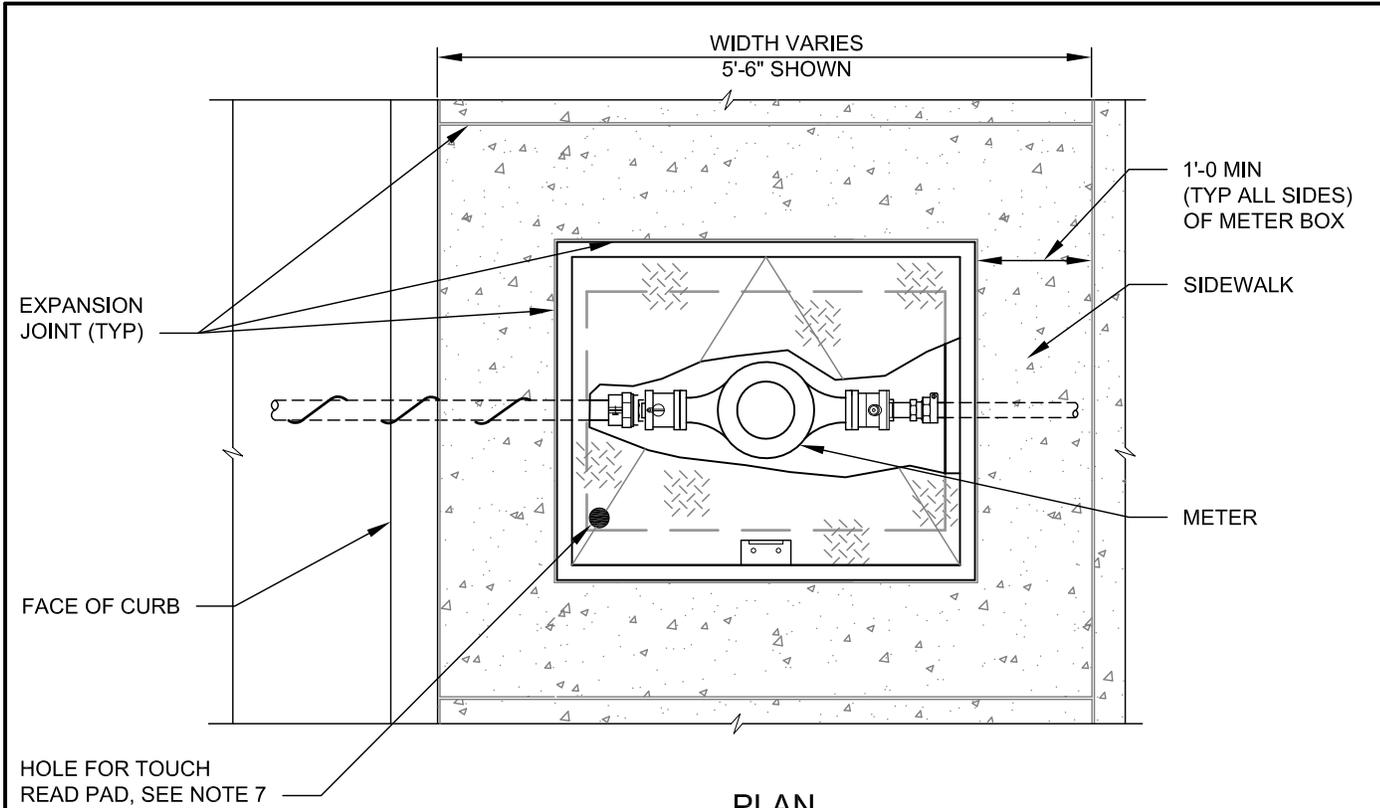


ELEVATION
NTS

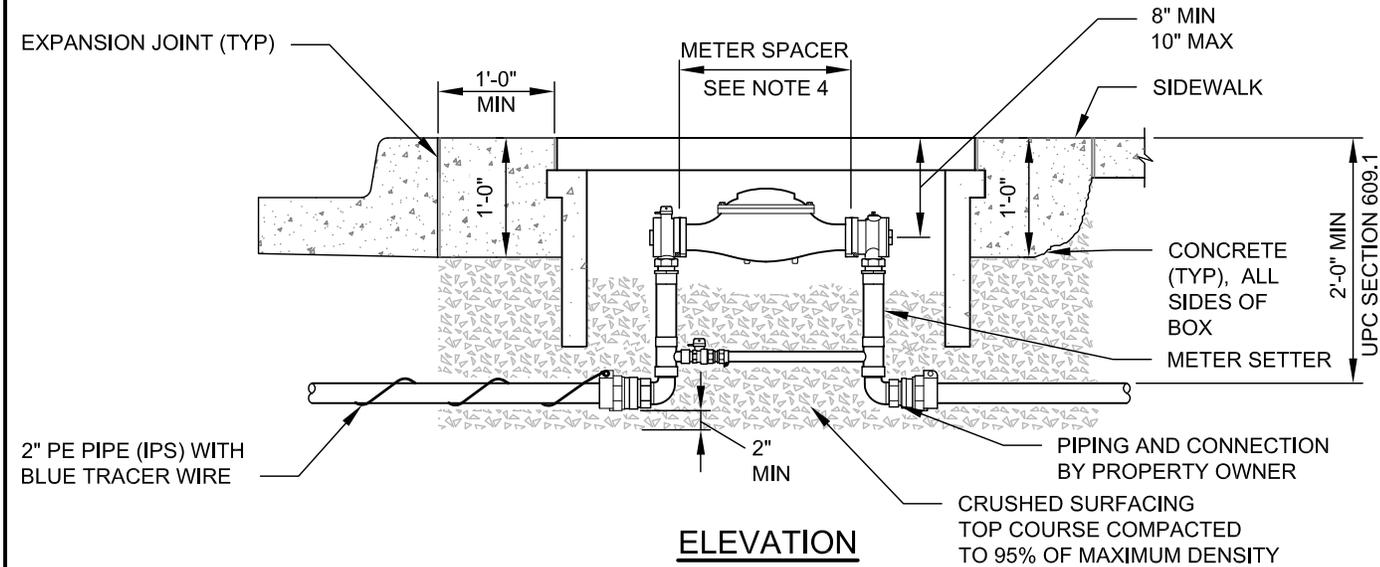
NOTES:

1. THIS INSTALLATION SHALL ONLY BE USED IN URBAN STREETSCAPES WHERE LANDSCAPE AREAS ARE NOT AVAILABLE AND WHERE APPROVED BY THE CITY.
2. SEE STANDARD DETAIL 701A FOR ADDITIONAL DETAILS.
3. SET METER BOX FLUSH WITH SIDEWALK.
4. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER.
5. ALL FITTINGS SHALL BE BRASS.
6. METER(S) SHALL BE CENTERED IN THE BOX TO MAINTAIN EVEN CLEARANCE FROM EDGES OF BOX.
7. TOUCH READ PAD HOLE TO BE DRILLED BY THE CITY.

 APPROVED BY: SCOTT THOMASSON WATER/WASTEWATER ENGINEERING MANAGER	 City of Redmond WASHINGTON	STANDARD DETAILS 5/8" X 3/4" AND 1" DOUBLE METERS IN SIDEWALK
REVISION DATE: JULY 01, 2015	FILE NAME: SD721.DWG DETAIL NUMBER: 721	



PLAN
NTS



ELEVATION
NTS

NOTES:

1. THIS INSTALLATION SHALL ONLY BE USED IN URBAN STREETSCAPES WHERE LANDSCAPE AREAS ARE NOT AVAILABLE AND WHERE APPROVED BY THE CITY.
2. SEE STANDARD DETAIL 701A FOR ADDITIONAL DETAILS.
3. SET METER BOX FLUSH WITH SIDEWALK.
4. SERVICE CONNECTION PIPE SIZE SHALL BE 2 INCH DIAMETER..
5. ALL FITTINGS SHALL BE BRASS.
6. METER(S) SHALL BE CENTERED IN THE BOX TO MAINTAIN EVEN CLEARANCE FROM EDGES OF BOX.
7. TOUCH READ PAD HOLE TO BE DRILLED BY THE CITY.

 APPROVED BY: SCOTT THOMASSON WATER/WASTEWATER ENGINEERING MANAGER	 City of Redmond WASHINGTON	STANDARD DETAILS 1 1/2" AND 2" METER IN SIDEWALK
REVISION DATE: JULY 01, 2015		FILE NAME: SD722.DWG DETAIL NUMBER: 722