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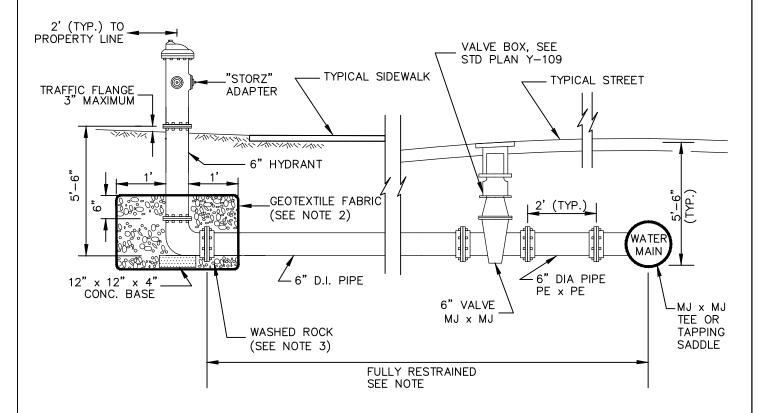
CITY OF SPOKANE STANDARD PLANS – SECTION Y

X-### = Revised Standard Plan
***X-### = New Standard Plan

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SEE SEC. 9-30.5 OF STANDARD SPECIFICATIONS

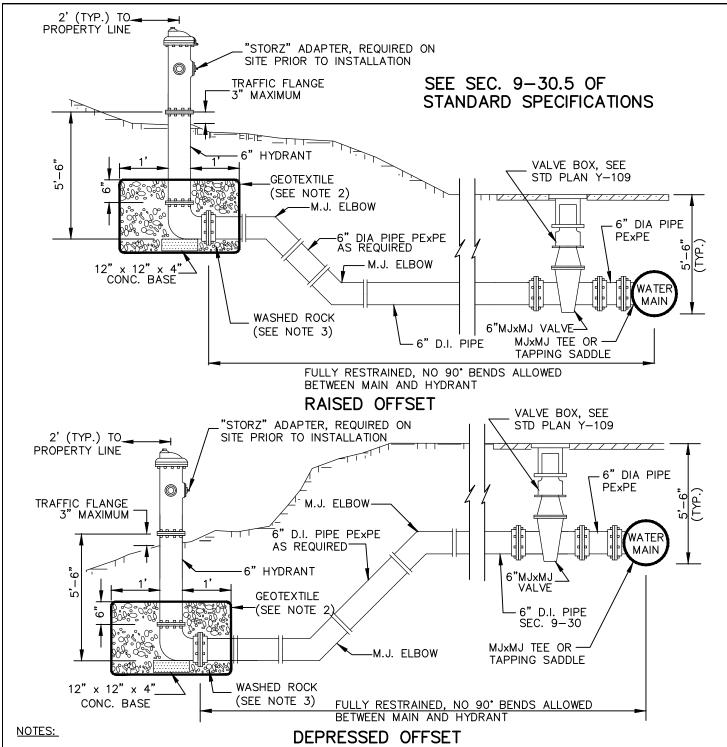


PROFILE

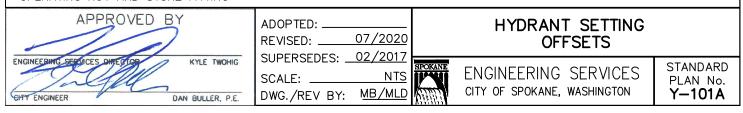
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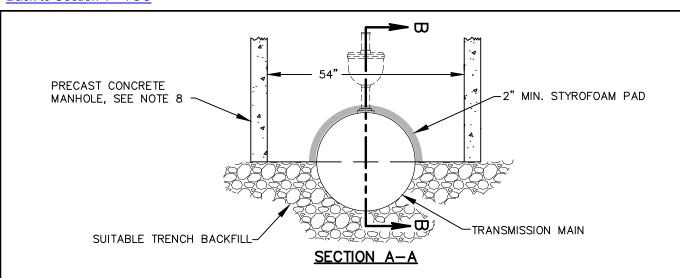
- 1. WATER DISTRIBUTION MATERIALS AND APPURTENANCES SHALL CONFORM TO SEC 9-30.
- 2. SEE SECTION 9-33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY, CLASS A). OVERLAP ALL FABRIC JOINTS 1'-6" MIN. WRAP AND SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.
- 3. SEE SECTION 9-03.12(5) FOR GRAVEL BACKFILL FOR DRYWELLS.
- 4. SEE COS GSP SPEC 7-14.3 FOR FIRE HYDRANT PLACEMENT DISTANCE FROM CURB RAMPS AND DRIVEWAYS.
- 5. MAINTAIN MINIMUM 3' DISTANCE FROM HYDRANT TO TRAVELED ROADWAY OR CURB.
- 6. MINIMUM 3' CLEAR TO OBSTRUCTIONS REQUIRED FOR OPERATING NUT AND STORZ FITTING.
- 7. STORZ FITTING REQUIRED ON SITE PRIOR TO INSTALLATION.

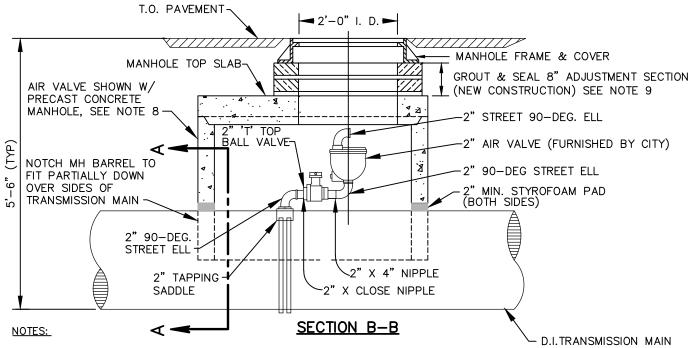
APPROVED BY	REVISED: 07/2020 STANDARD	HYDRANT SETTING STANDARD	
ENGINEERING SEPTICES DIMEGTOR KYLE TWOHIG GHTY ENGINEER DAN BULLER, P.E.	SUPERSEDES:02/2017 SCALE:NTS DWG./REV BY: MB/MLD	ENGINEERING SERVICES	STANDARD PLAN No. Y—101



- 1. WATER DISTRIBUTION MATERIALS AND APPURTENANCES SHALL CONFORM TO SEC 9-30.
- 2. SEE SECTION 9-33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY, CLASS A). OVERLAP ALL FABRIC JOINTS 1'-6" MIN. WRAP AND SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.
- 3. SEE SECTION 9-03.12(5) FOR GRAVEL BACKFILL FOR DRYWELLS.
- 4. SEE COS GSP SPEC 7-14.3 FOR HYDRANT PLACEMENT DISTANCE FROM CURB RAMPS & DRIVEWAYS. MAINTAIN MIN 3' HYDRANT PLACEMENT DISTANCE FROM TRAVELED ROADWAYS & CURBS. MIN 3' CLEAR TO OBSTRUCTIONS REQUIRED FOR OPERATING NUT AND STORZ FITTING







- 1. SEE SEC. 7-90 FOR VALVE CHAMBERS, & SEC. 9-05.50(2) FOR PRECAST CONCRETE MANHOLES.
- 2. SEE SECS. 7-12 & 9-30 FOR WATER FITTINGS.
- 3. SEE STD PLANS A-12 (BY DEFAULT) & A-13 (IF LOCATED IN ARTERIAL STREET) FOR MANHOLE FRAME & COVER.
- 4. SEE STD PLAN Z-101 FOR MANHOLE 48" & Z-102 FOR MANHOLE 54".
- 5. SEE STD PLAN Z-108 FOR MANHOLE TOP SLAB REINFORCEMENT DETAILS.
- 6. TOP SLAB & BARREL JOINT(S) MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
- 7. ADJUSTMENT SECTION, TOP SLAB, & BARREL JOINT(S) TO BE SEALED PER SECS. 7-05 & 9-04.
- 8. USE MANHOLE 48" W/ CONCENTRIC CONE TOP WHEN VERTICAL CLEARANCE IS ADEQUATE. USE MANHOLE 54" W/ TOP SLAB AS SHOWN ABOVE, WHEN VERTICAL CLEARANCE IS MINIMAL.

SRM/MLD

9. ADJUSTMENT SECTION HEIGHT FOR EXISTING STRUCTURES TO MATCH FIELD CONDITIONS AS REQ'D (3" MIN-16" MAX)

APPROVED BY

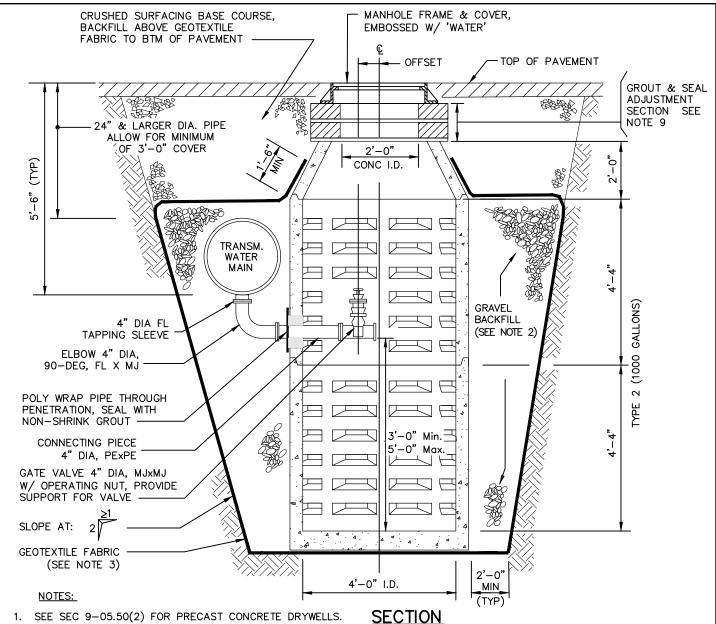
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SUPERSEDES: CHECKED BY:

SCALE: ____
REVISED BY:

2" AIR VALVE FOR DUCTILE IRON PIPE

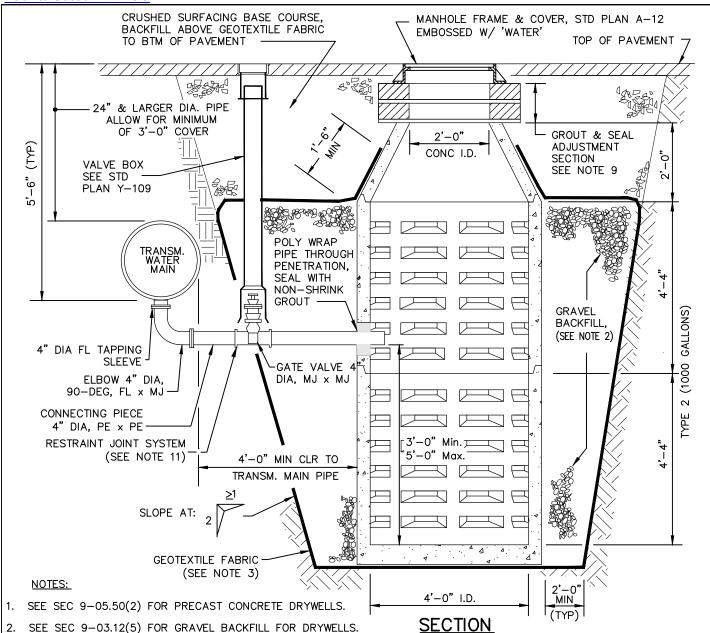


ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

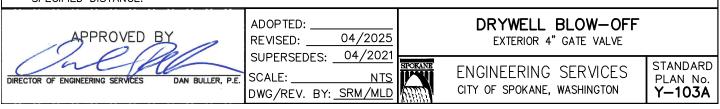


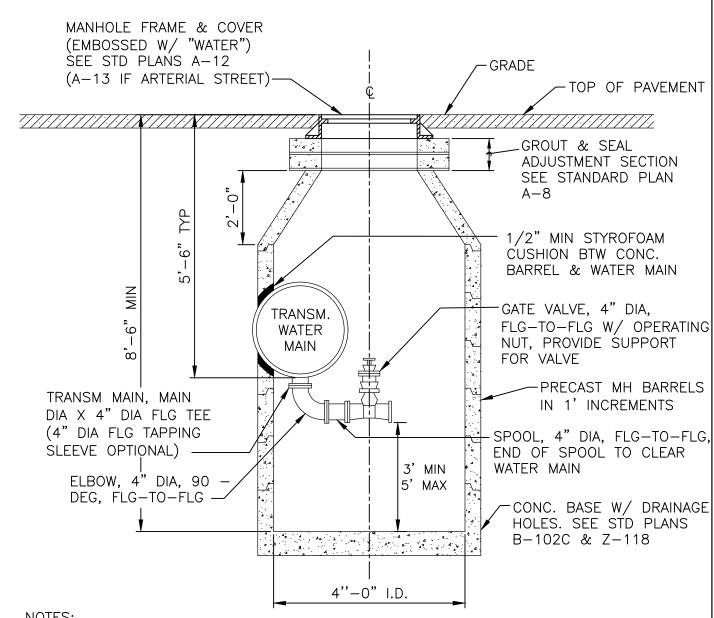
- 2. SEE SEC 9-03.12(5) FOR GRAVEL BACKFILL FOR DRYWELLS.
- 3. SEE SEC 9-33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY, CLASS A). OVERLAP ALL FABRIC JOINTS 1'-6" MIN. WRAP & SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.
- 4. SEE STD PLANS A-12 (BY DEFAULT) & A-13 (IF LOCATED IN ARTERIAL STREET) FOR MANHOLE FRAME & COVER.
- 5. SEE STD PLANS B-102C & Z-118 FOR BASE & FOUNDATION DETAILS.
- 6. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
- 7. ADJUSTMENT SECTION, CONE & BARREL JOINTS TO BE SEALED PER SEC 7-05.
- 8. ONE DRYWELL MAY SERVE MORE THAN ONE INTERIOR BLOW-OFF VALVE.
- 9. ADJUSTMENT SECTION HEIGHT FOR EXISTING STRUCTURES TO MATCH FIELD CONDITIONS AS REQUIRED SEE STANDARD PLAN A-8.
- 10. WATER DISTRIBUTION MATERIALS AND APPURTENANCES SHALL CONFORM TO SEC 9-30.
- 11. ALL JOINTS SHALL BE RESTRAINED JOINTS PER SEC 9-30.
- 12. CONTRACTOR TO MAINTAIN A MINIMUM OF 3' TO A MAXIMUM 5' DISTANCE FROM THE BOTTOM OF THE 4" PIPE TO THE INSIDE BOTTOM OF DRYWELL BARREL. ADDITIONAL BARREL(S) AND/OR RISER SECTIONS MAY BE REQUIRED TO ACHIEVE SPECIFIED DISTANCE.

DRYWELL BLOW-OFF ADOPTED: ___ PPROVED BY 04/2025 INTERIOR 4" GATE VALVE REVISED: SUPERSEDES: _ 04/2021 STANDARD ENGINEERING SERVICES NTS SCALE: PLAN No. DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E. CITY OF SPOKANE, WASHINGTON DWG/REV. BY: SRM/MLD Y - 103



- SEE SEC 9-33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY, CLASS A). OVERLAP ALL FABRIC JOINTS 1'-6" MIN. WRAP & SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.
- 4. SEE STD PLANS A-12 (BY DEFAULT) & A-13 (IF LOCATED IN ARTERIAL STREET) FOR MANHOLE FRAME & COVER.
- 5. SEE STD PLANS B-102C & Z-118 FOR BASE & FOUNDATION DETAILS.
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NOTES:

- 1. SEE SECTIONS 7-05 & 9-05.50(2) FOR PRECAST CONCRETE MANHOLES
- 2. SEE SECTIONS 7-12 & 9-30 FOR WATER FITTINGS.
- 3. SEE STD PLAN Z-109 FOR MANHOLE STEP DETAILS.
- 4. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
- 5. CONTRACTOR TO MAINTAIN A MINIMUM OF 3' TO A MAXIMUM 5' DISTANCE FROM THE BOTTOM OF THE 4" PIPE TO THE INSIDE BOTTOM OF DRYWELL BARREL. ADDITIONAL BARREL(S) AND/OR RISER SECTIONS MAY BE REQUIRED TO ACHIEVE SPECIFIED DISTANCE.

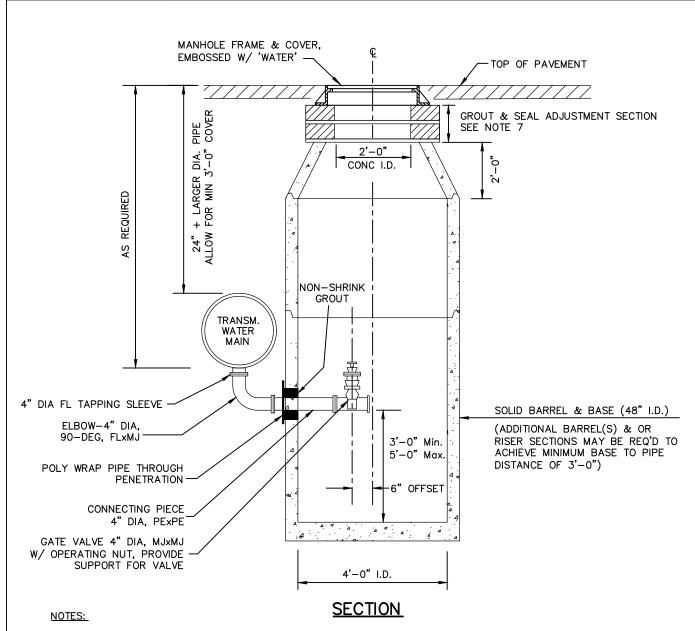
PPROVED BY DAN BULLER, P.E. DWG/REV. BY: RLB/MLD

ADOPTED: _ 04/2025 REVISED: SUPERSEDES: 04/2021 CHECKED BY: JAG NTS SCALE:

MANHOLE BLOW-OFF INTERIOR 4" GATE VALVE



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



- SEE SEC 9-05.50(2) FOR PRECAST CONCRETE MANHOLES.
- SEE STD PLANS A-12 (BY DEFAULT) & A-13 (IF LOCATED IN ARTERIAL STREET) FOR MANHOLE FRAME & COVER.
- SEE STD PLANS B-102C & Z-118 FOR BASE & FOUNDATION DETAILS.
- CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
- ADJUSTMENT SECTION, CONE & BARREL JOINTS TO BE SEALED PER SEC 7-05.
- ONE MANHOLE MAY SERVE MORE THAN ONE INTERIOR BLOW-OFF VALVE.
- ADJUSTMENT SECTION HEIGHT FOR EXISTING STRUCTURES TO MATCH FIELD CONDITIONS AS REQUIRED SEE STANDARD PLAN A-8.
- WATER DISTRIBUTION MATERIAL AND APPURTENANCES SHALL CONFORM TO SEC 9-30.
- 9. ALL JOINTS SHALL BE RESTRAINED JOINTS PER SEC 9-30.

PPROVED BY DAN BULLER, P.E. DIRECTOR OF ENGINEERING SERVICES DWG/REV. BY: LWK/MLD

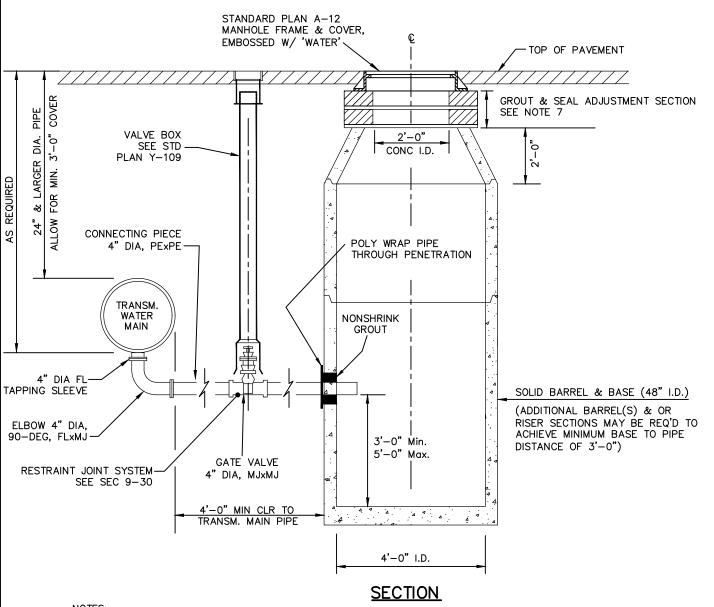
ADOPTED: _ 04/2025 REVISED: SUPERSEDES: __04/2021 CHECKED BY: JTG SCALE: NTS

PUMPER STYLE BLOW-OFF

INTERIOR 4" GATE VALVE



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



NOTES:

- 1. SEE SEC 9-05.50(2) FOR PRECAST CONCRETE MANHOLES.
- 2. SEE STD PLANS A-12 (BY DEFAULT) & A-13 (IF LOCATED IN ARTERIAL STREET) FOR MANHOLE FRAME & COVER.
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- 4. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
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- ONE MANHOLE MAY SERVE MORE THAN ONE INTERIOR BLOW-OFF VALVE.
- ADJUSTMENT SECTION HEIGHT FOR EXISTING STRUCTURES TO MATCH FIELD CONDITIONS AS REQUIRED SEE STANDARD PLAN A-8
- 8. WATER DISTRIBUTION MATERIAL AND APPURTENANCES SHALL CONFORM TO SEC 9-30.
- 9. ALL JOINTS SHALL BE RESTRAINED JOINTS PER SEC 9-30.

PPROVED BY DIRECTOR OF ENGINEERING SERVICES DAN BULLER, P.E.

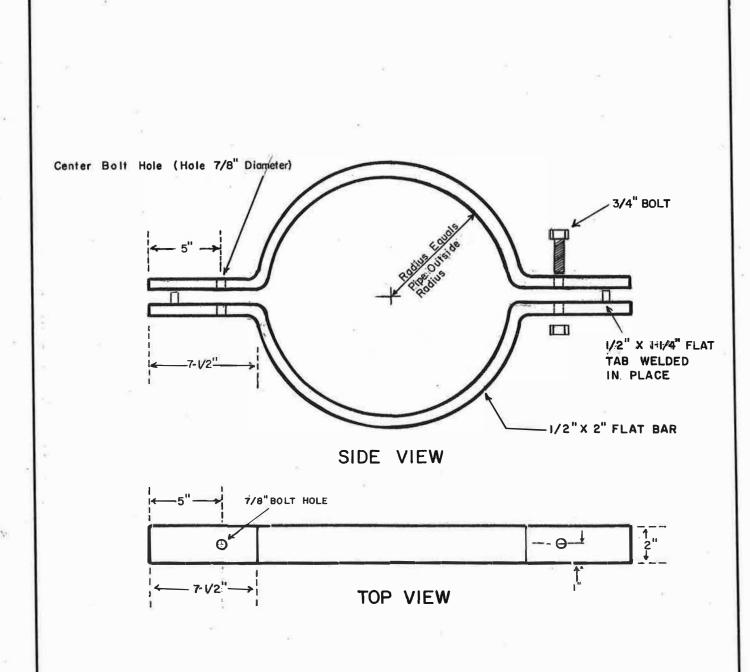
ADOPTED: 04/2025 REVISED: SUPERSEDES: 04/2021 CHECKED BY: _ <u>JTG</u> SCALE:

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. Y-105A

PUMPER STYLE BLOW-OFF EXTERIOR 4" GATE VALVE

NTS DWG/REV. BY: LWK/MLD



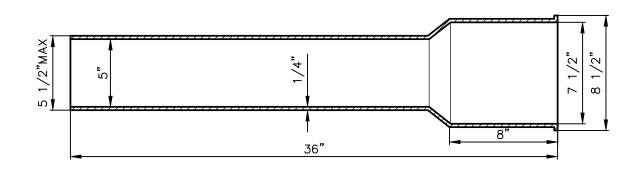
APPROVED BY	
CITY ENGR BLOW Blogs	
CH. DES. ENGR.	

SCALE NONE ADOPTED 2-86

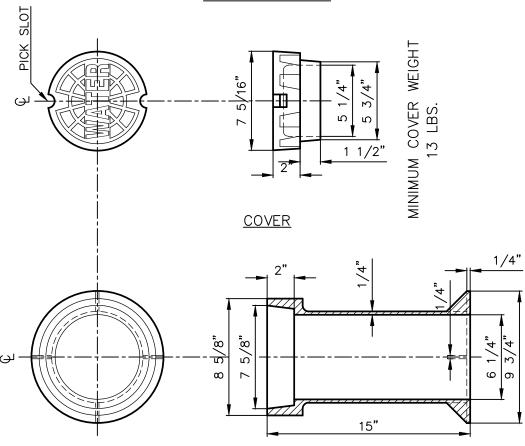
TYPICAL DUCTILE IRON PIPE CLAMP FOR PIPE UP TO 12* DIA.

REVISED - - - - -

DEPT. OF PUBLIC WORKS ENGR. DIVISION SPOKANE, WN.



BOTTOM SECTION



TOP SECTION**

*OLYMPIC FOUNDRY MODEL 930 - 15" TOP, 5 1/4" HEAVY LID (OR APPROVED EQUAL)

**TOP SECTION & COVER TO ALSO BE USED TO PROTECT CURB STOPS LOCATED IN PAVED OR CONCRETE AREAS

APPROVED BY

ENGINEERING SERVICES DIRECTOR KYLE TWOHIG

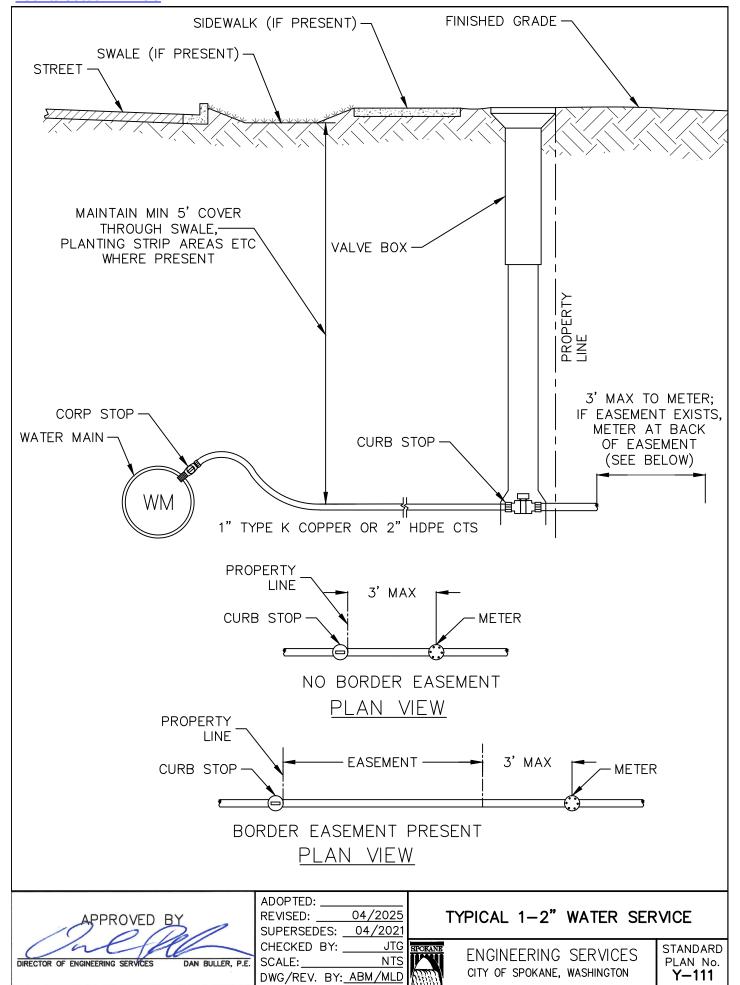
GHTY ENGINEER DAN BULLER, P.E.

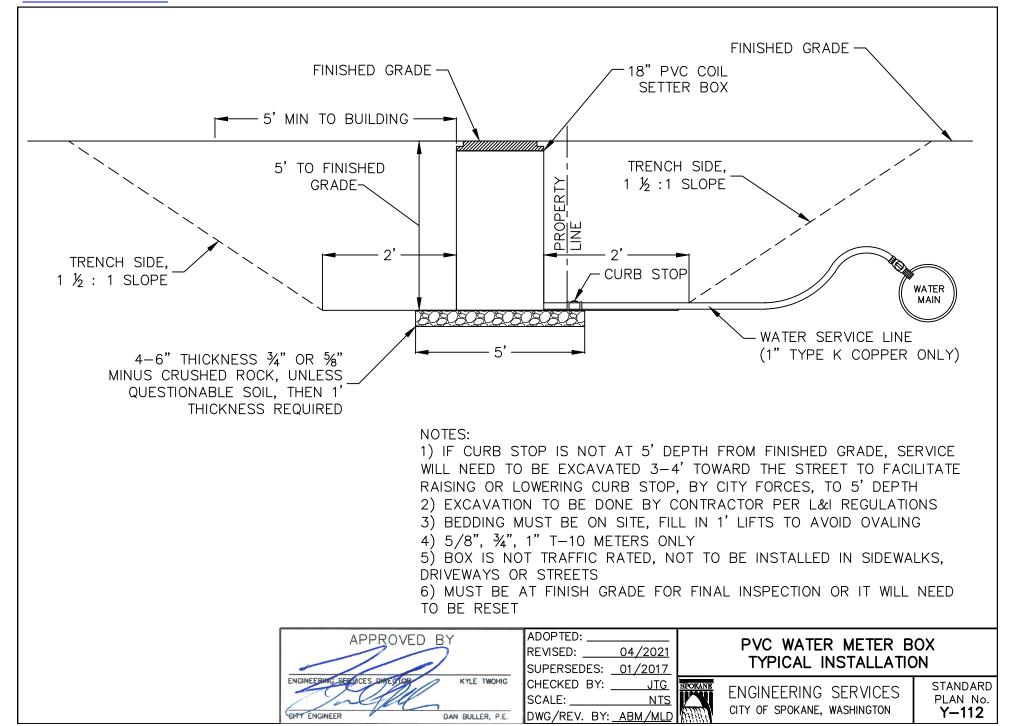
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DWG./REV BY: DGB/MLD

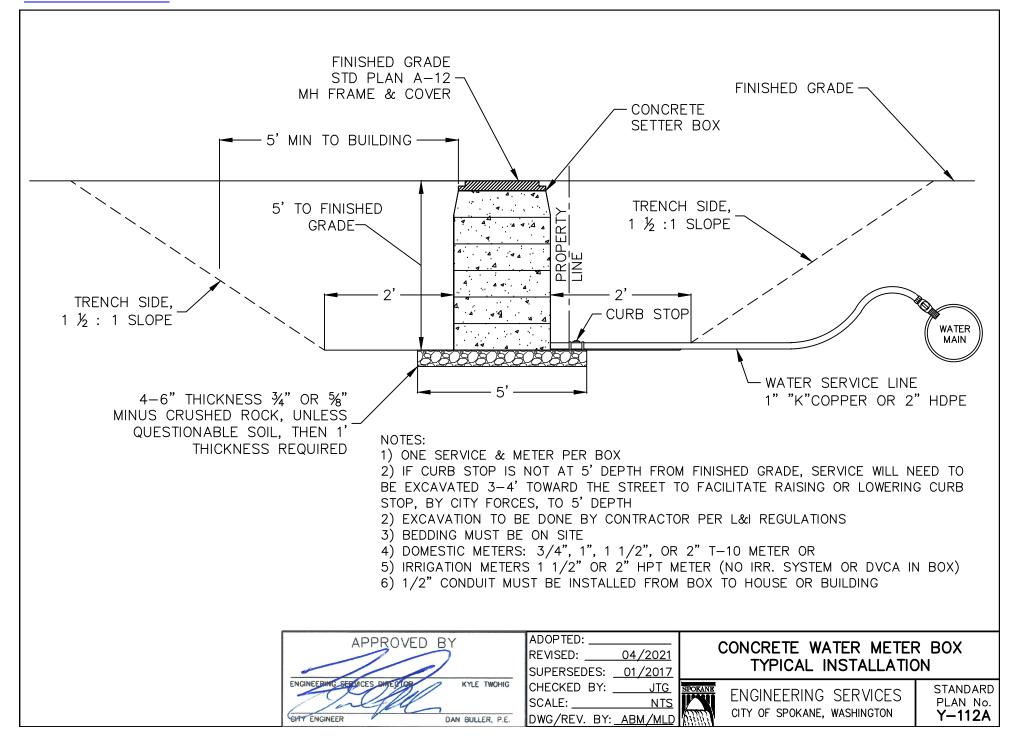
CAST IRON VALVE BOX*

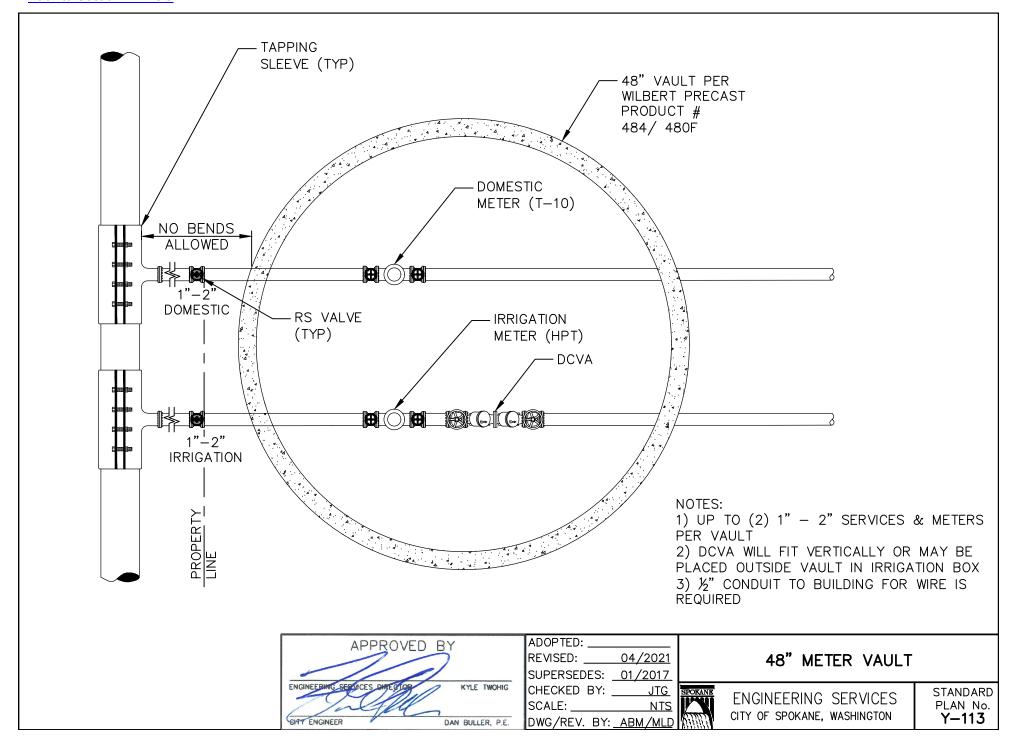


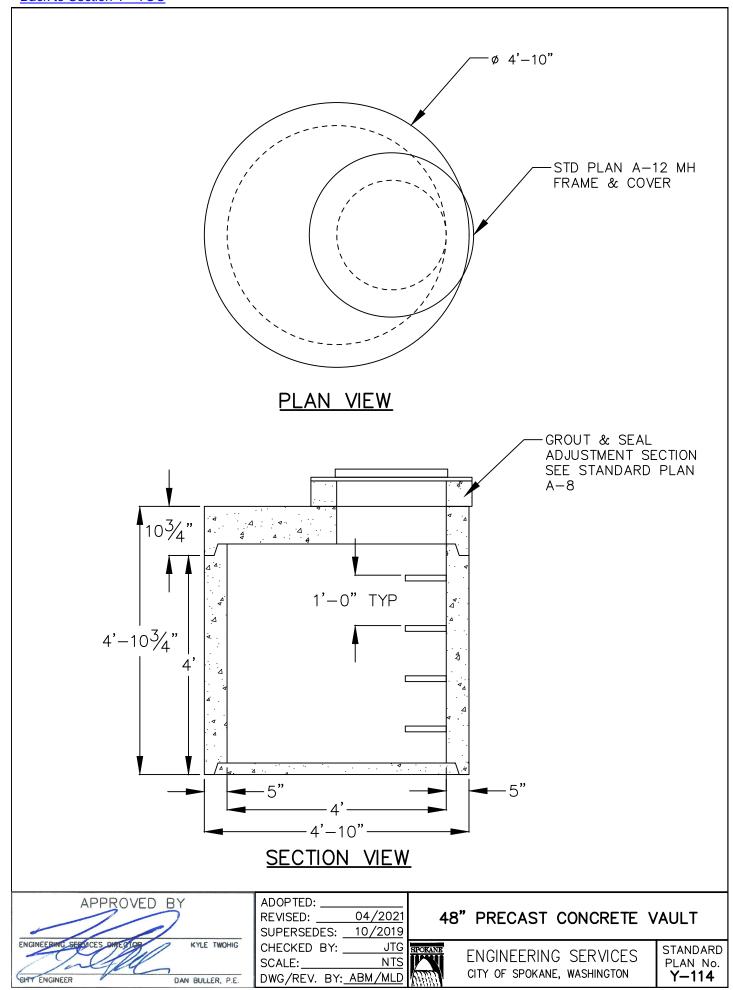
ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON











MINIMUM WATER VAULT DIMENSIONS MACH METER INSTALLATIONS 3" AND LARGER

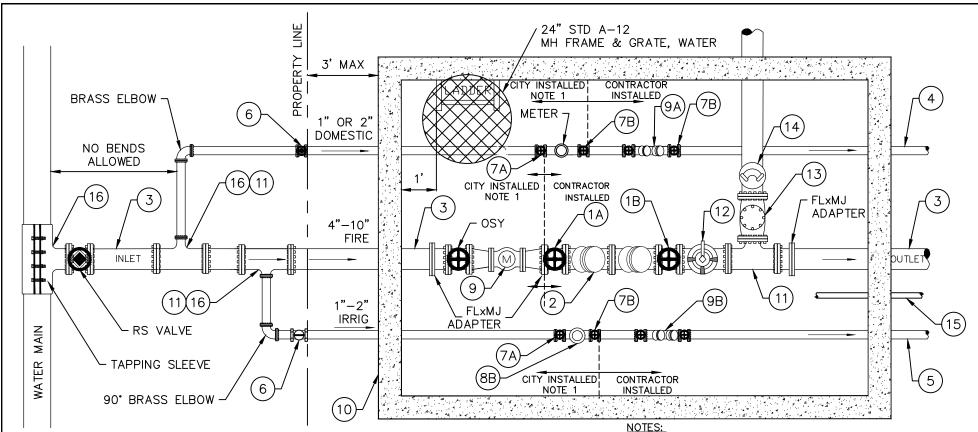
W X L X H (INSIDE) 3"-4" DOMESTIC, IRRIGATION, FIRE & DOM/FIRE W/DCVA . . 6' X 10' X 6'6" 6" DOMESTIC, IRRIGATION, FIRE & DOM/FIRE W/DCVA 6' X 12' X 6'6" 8"-10" FIRE W/DCVA 6' X 12' X 6'6" 8"-10" FIRE & DOMESTIC W/DCVA 6' X 12' X 6'6"

- 1. IF THERE ARE 2 SERVICES, (EG TWO LINES 4" AND LARGER OR THREE LINES 2" AND LARGER RUNNING PARALLEL IN VAULT) ALL VAULTS SHALL BE A MINIMUM OF 8' WIDE.
- 2. IF THERE ARE 2 OR MORE 4" OR LARGER SERVICES, PLANS MUST BE REVIEWED AND APPROVED PRIOR TO INSTALLATION.
- 3. ALL VAULTS WILL BE HEAVY DUTY TRAFFIC RATED
- 4. VAULT MEASUREMENTS ARE MINIMUM INSIDE DIMENSIONS
- 5. VAULT MEASUREMENTS PROVIDED DO NOT INCLUDE PVC AND/OR FDC CONNECTIONS IN THE VAULT. ADDITION OF APPURTENANCES IN THE VAULT WILL INCREASE THE VAULT DIMENSIONS AND SHALL BE CALCULATED BY THE DESIGNER.

DAN BULLER, P.E. DWG./REV BY: MB/MLD

ADOPTED: ___ REVISED: <u>04/2025</u> SUPERSEDES: _11/2024 SCALE: ____ NTS WATER SERVICE VAULT MINIMUM DIMENSIONS

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



- FIRE LINE OSY, INLET
- FIRE LINE OSY, OUTLET
- (2)DCVA
- DUCTILE IRON PIPE
- DOMESTIC SERVICE
- IRRIGATION SERVICE
- CURB STOP 6
- INLET VALVE, DOMESTIC/IRRIGATION
- OUTLET VALVE, DOMESTIC/IRRIGATION
- NEPTUNE TRUFLOW METER
- IRRIGATION METER
- MACH METER

- DCVA ON ALL COMMERCIAL APPLICATIONS AND RESIDENTIAL WHERE REQUIRED
- BACKFLOW ASSEMBLY, IRRIGATION
- VAULT (PER Y-115) PROVIDED AND INSTALLED BY CONTRACTOR
- TEE OR TAPPING SADDLE
- POST INDICATOR (THROUGH VAULT TOP)
- (13)CHECK WITH BALL DRIP
- (14)PUMPER CONNECTION (FDC) (THROUGH VAULT)
- 3/4" ELECTRICAL CONDUIT FOR REMOTE READER, VAULT TO BUILDING OR BOLLARD (36" ABOVE GROUND), ETC
- TAP PERMIT REQUIRED

- 1. ALL EXCAVATION, BEDDING, BACKFILL, & RESTORATION, INCLUDING FOR CITY INSTALLED PIPING, IS TO BE DONE BY CONTRACTOR.
- 2. IN SHALLOW GROUNDWATER AREAS WHERE SEASONAL HIGH LEVEL WILL REACH BOTTOM OF VAULT OR IS <7' DEEP, METER VAULT SHALL BE ONE OF THE FOLLOWING:
 - a) BUOYANT RESISTANT VAULT WITH WATERTIGHT JOINTS AND PIPE PENETRATIONS, AND EXTERIOR WATER PROOF COATING (XYPEX OR EQUIVALENT). MIN 12" WIDE BY 6" DEEP SUMP TO BE PROVIDED FOR PUMP OUT. BOLTS FOR FLANGES AND MJ FITTINGS SHALL BE ASTM 316.
 - b) BE LOCATED ABOVE GROUND IN THE HEATED AND INSULATED ENCLOSURE SUCH AS HOTBOX MOUNTED ON MIN 6" THICK REINFORCED CONCRETE BASE.

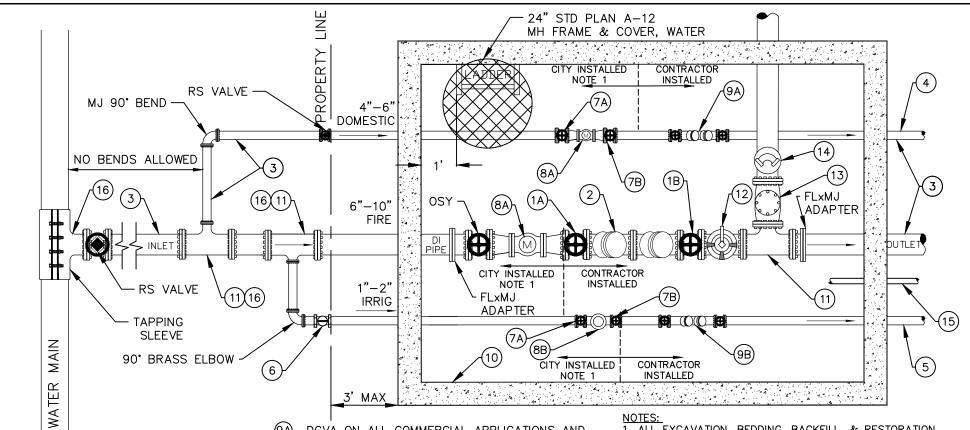
WATER METER VAULT

SMALL



REVISED: 04/2025 SUPERSEDES: 11/2024 CHECKED BY: DCS NTS

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



- FIRE LINE OSY, INLET
- FIRE LINE OSY, OUTLET
- DCVA
- DUCTILE IRON PIPE
- DOMESTIC SERVICE
- (2)(3)(4)(5)(6)(7A) IRRIGATION SERVICE
- CURB STOP
 - INLET VALVE, DOMESTIC/IRRIGATION
- OUTLET VALVE, DOMESTIC/IRRIGATION
- MACH METER
- IRRIGATION METER

- DCVA ON ALL COMMERCIAL APPLICATIONS AND RESIDENTIAL WHERE REQUIRED
- BACKFLOW ASSEMBLY, IRRIGATION
- VAULT (PER Y-115) PROVIDED AND INSTALLED BY CONTRACTOR
- TEE OR TAPPING SADDLE
- POST INDICATOR (THROUGH VAULT TOP)
- CHECK WITH BALL DRIP
- PUMPER CONNECTION (FDC) (THROUGH VAULT)
- 3/4" ELECTRICAL CONDUIT FOR REMOTE READER, VAULT TO BUILDING OR BOLLARD (36" ABOVE GROUND), ETC
- TAP PERMIT REQUIRED

1. ALL EXCAVATION, BEDDING, BACKFILL, & RESTORATION, INCLUDING FOR CITY INSTALLED PIPING, IS TO BE DONE BY CONTRACTOR.

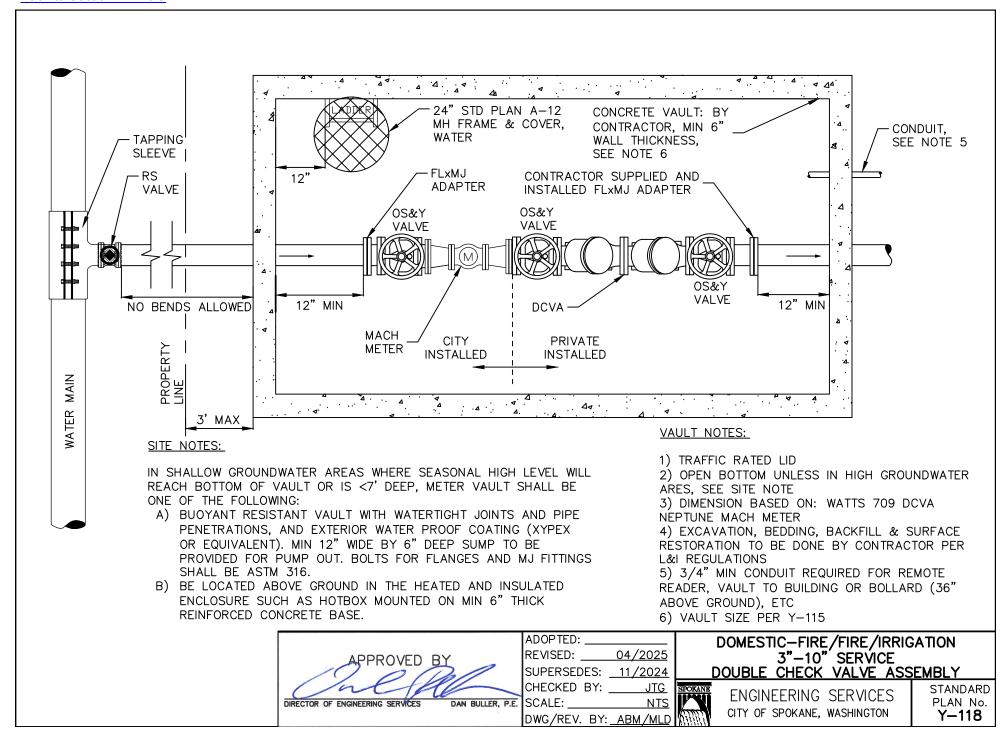
- 2. IN SHALLOW GROUNDWATER AREAS WHERE SEASONAL HIGH LEVEL WILL REACH BOTTOM OF VAULT OR IS <7' DEEP, METER VAULT SHALL BE ONE OF THE FOLLOWING:
 - a) BUOYANT RESISTANT VAULT WITH WATERTIGHT JOINTS AND PIPE PENETRATIONS, AND EXTERIOR WATER PROOF COATING (XYPEX OR EQUIVALENT). MIN 12" WIDE BY 6" DEEP SUMP TO BE PROVIDED FOR PUMP OUT. BOLTS FOR FLANGES AND MJ FITTINGS SHALL BE ASTM 316.
 - b) BE LOCATED ABOVE GROUND IN THE HEATED AND INSULATED ENCLOSURE SUCH AS HOTBOX MOUNTED ON MIN 6" THICK REINFORCED CONCRETE BASE.

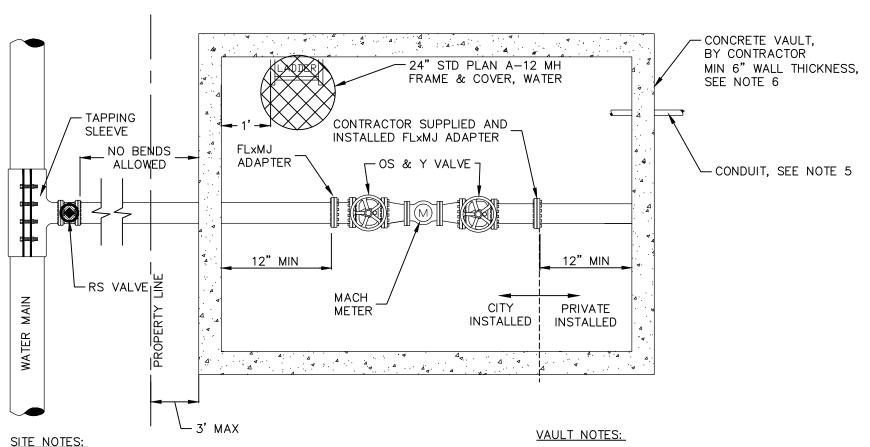


ADOPTED: _ REVISED: 04/2025 SUPERSEDES: 11/2024 CHECKED BY: <u>JTG</u> SCALE: NTS DWG/REV. BY: ABM/MLD

WATER METER VAULT LARGE

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON

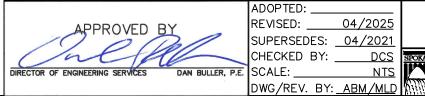




IN SHALLOW GROUNDWATER AREAS WHERE SEASONAL HIGH LEVEL WILL REACH BOTTOM OF VAULT OR IS <7' DEEP, METER VAULT SHALL BE ONE OF THE FOLLOWING:

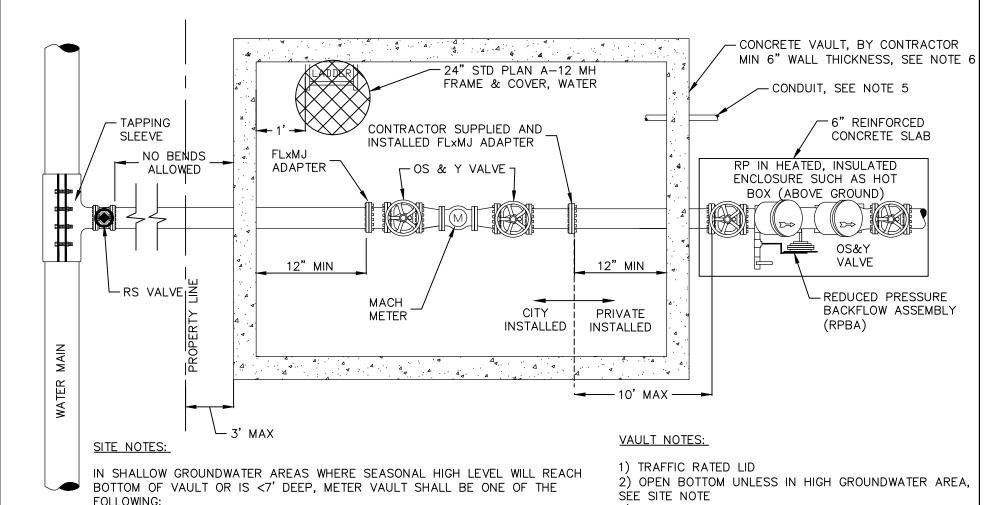
A) BUOYANT RESISTANT VAULT WITH WATERTIGHT JOINTS AND PIPE PENETRATIONS, AND EXTERIOR WATER PROOF COATING (XYPEX OR EQUIVALENT). MIN 12" WIDE BY 6" DEEP SUMP TO BE PROVIDED FOR PUMP OUT. BOLTS FOR FLANGES AND MJ FITTINGS SHALL BE ASTM 316.

- 1) TRAFFIC RATED LID
- 2) OPEN BOTTOM UNLESS IN HIGH GROUNDWATER AREA, SEE SITE NOTE
- 3) DIMENSIONS BASED ON: NEPTUNE MACH METER
- 4) EXCAVATION, BEDDING, BACKFILL & RESTORATION TO BE DONE BY CONTRACTOR PER L&I REGULATIONS.
- 5) 3/4" MIN CONDUIT REQUIRED, STUB 36" ABOVE GROUND
- 6) VAULT SIZE PER Y-115

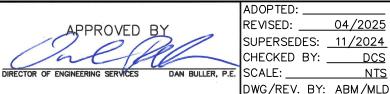


WATER METER VAULT METER ONLY 3"-10"

ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON



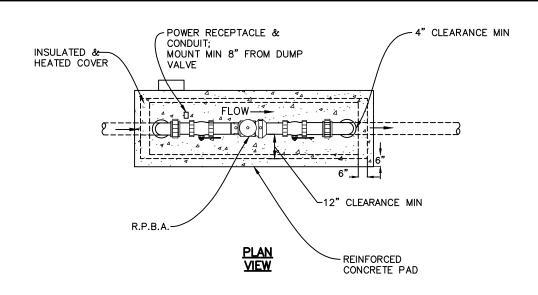
- A) BUOYANT RESISTANT VAULT WITH WATERTIGHT JOINTS AND PIPE PENETRATIONS, AND EXTERIOR WATER PROOF COATING (XYPEX OR
- EQUIVALENT). MIN 12" WIDE BY 6" DEEP SUMP TO BE PROVIDED FOR PUMP OUT. BOLTS FOR FLANGES AND MJ FITTINGS SHALL BE ASTM 316. B) BE LOCATED ABOVE GROUND IN THE HEATED AND INSULATED
- ENCLOSURE SUCH AS HOTBOX MOUNTED ON MIN 6" THICK REINFORCED CONCRETE BASE.
- 3) DIMENSIONS BASED ON: NEPTUNE MACH METER
- 4) EXCAVATION, BEDDING, BACKFILL & RESTORATION TO BE DONE BY CONTRACTOR PER L&I REGULATIONS.
- 5) 3/4" MIN CONDUIT REQUIRED, STUB 36" ABOVE GROUND
- 6) VAULT SIZE PER Y-115

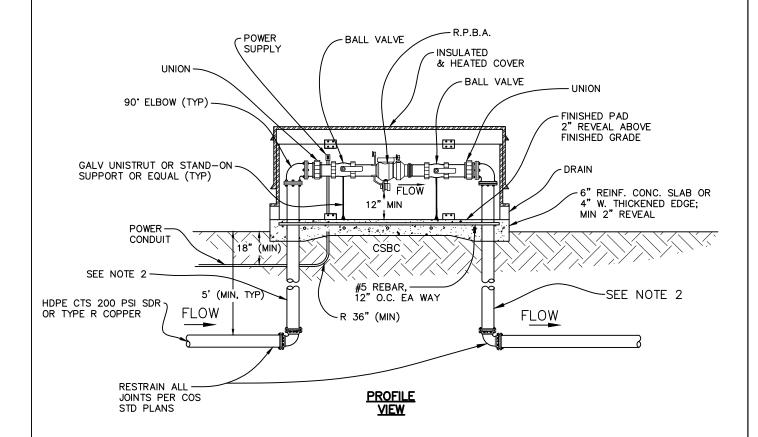


DOMESTIC/FIRE LINE 3"-10" SERVICE REDUCÉD PRESSURE ASSEMBLY (PER WAC 246.290.490)



ENGINEERING SERVICES CITY OF SPOKANE, WASHINGTON





NOTES:

(1) BASE FOUNDATIONS FOR ALL UTILITY VAULTS AND PADS TO BE PLACED ON 6" MINIMUM OF COMPACTED CSBC OR MATERIAL ALLOWED BY ENGINEER. MATERIAL TO BE COMPACTED TO DIV. 4 REQUIREMENTS

(2) STAINLESS STEEL PIPE (SCH 40, ASTM 304),

TYPE K COPPER OR RIGID HDPE 200 PSI CTS SDR9 WITH GALV STEEL (OR SCH. 40 PVC WITH ½" ANNULAR CLEARANCE) SLEEVES THROUGH SLAB

APPROVED (BY
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DIRECTOR OF ENGINEERING SERVICES	KYLE TWOHIG
0000	
GITY ENGINEER	BAN BULLER, P.E.

ABOVE GROUND REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) PIPE SIZE 2" & UNDER



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