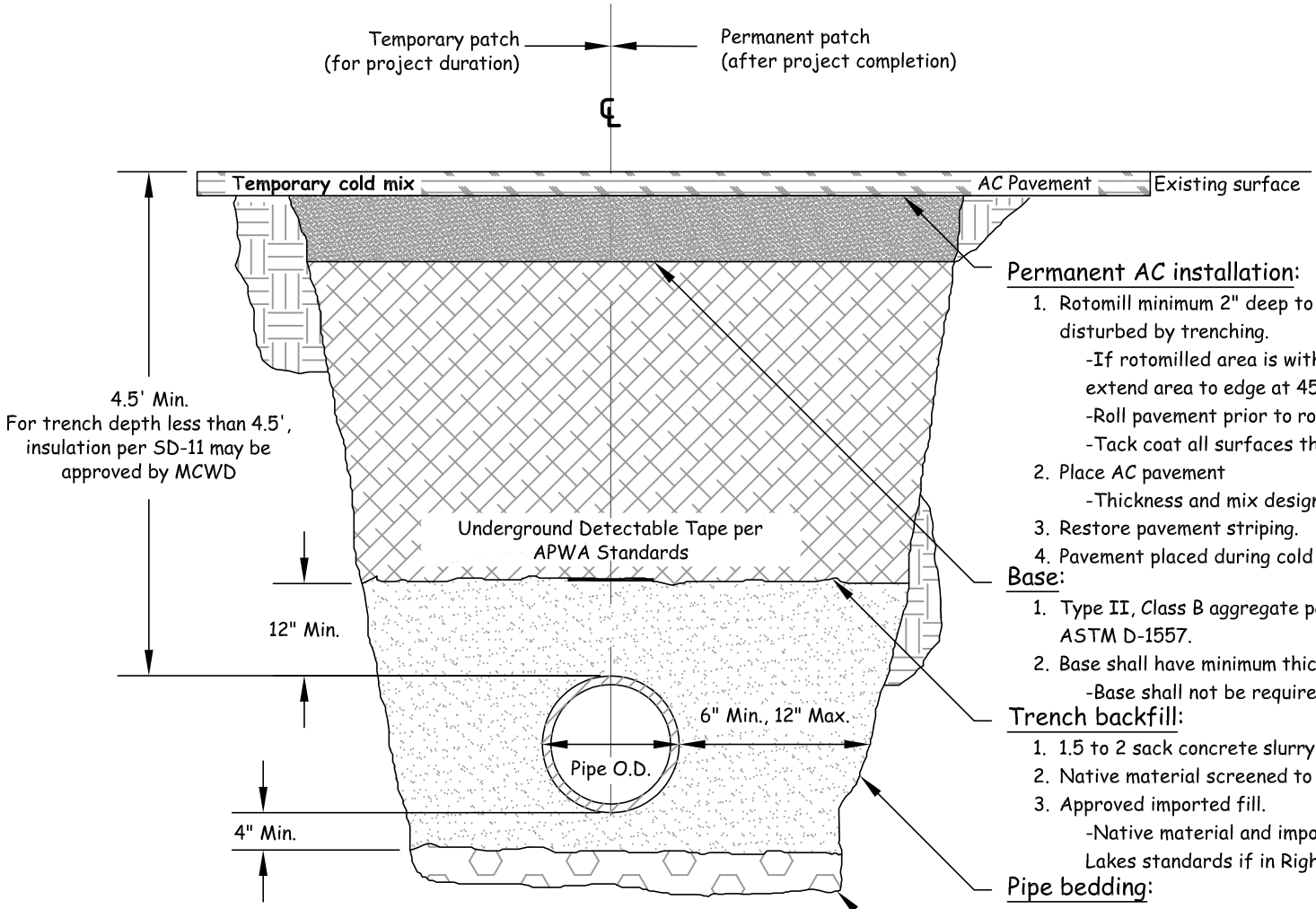

Permanent AC installation:

1. Rotomill minimum 2" deep to cover all areas of cracked or ravelled surfaces disturbed by trenching.
   - -If rotomilled area is within 2' of edge of pavement or edge of travel lane, extend area to edge at 45° angles.
   - -Roll pavement prior to rotomill.
   - -Tack coat all surfaces that conditions warrant.
2. Place AC pavement
   - -Thickness and mix design per Town of Mammoth Lakes Standard Plan 006.
3. Restore pavement striping.
4. Pavement placed during cold weather shall be considered temporary.

Base:

1. Type II, Class B aggregate per Caltrans standard spec. compacted to 95% per ASTM D-1557.
2. Base shall have minimum thickness of 8"
   - -Base shall not be required when concrete slurry is used for trench backfill.

Trench backfill:

1. 1.5 to 2 sack concrete slurry, or
2. Native material screened to 6" max size, or
3. Approved imported fill.
   - -Native material and imported fill shall be compacted per Town of Mammoth Lakes standards if in Right-of-Way, otherwise to 90% per ASTM-D1557.

Pipe bedding:

1. Granular material (3/4 " max) compacted to 90% per ASTM D-1557.
2. Bedding with less than 20% passing #4 sieve shall have a non-woven Class 3 (AASHTO M288-96) geotextile on all sides.
3. Bedding shall extend 4" below bottom of pipe

Overexcavate when trench bottom is saturated. Replace with 3" - 6" rock to 6" minimum depth. Cover with non-woven Class 3 (AASHTO M288-96) geotextile on all sides.

MAMMOTH COMMUNITY WATER DISTRICT
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SD-10 Water Line Trench Detail

DATE:	05/11/2020
DRAWN:	GDT/FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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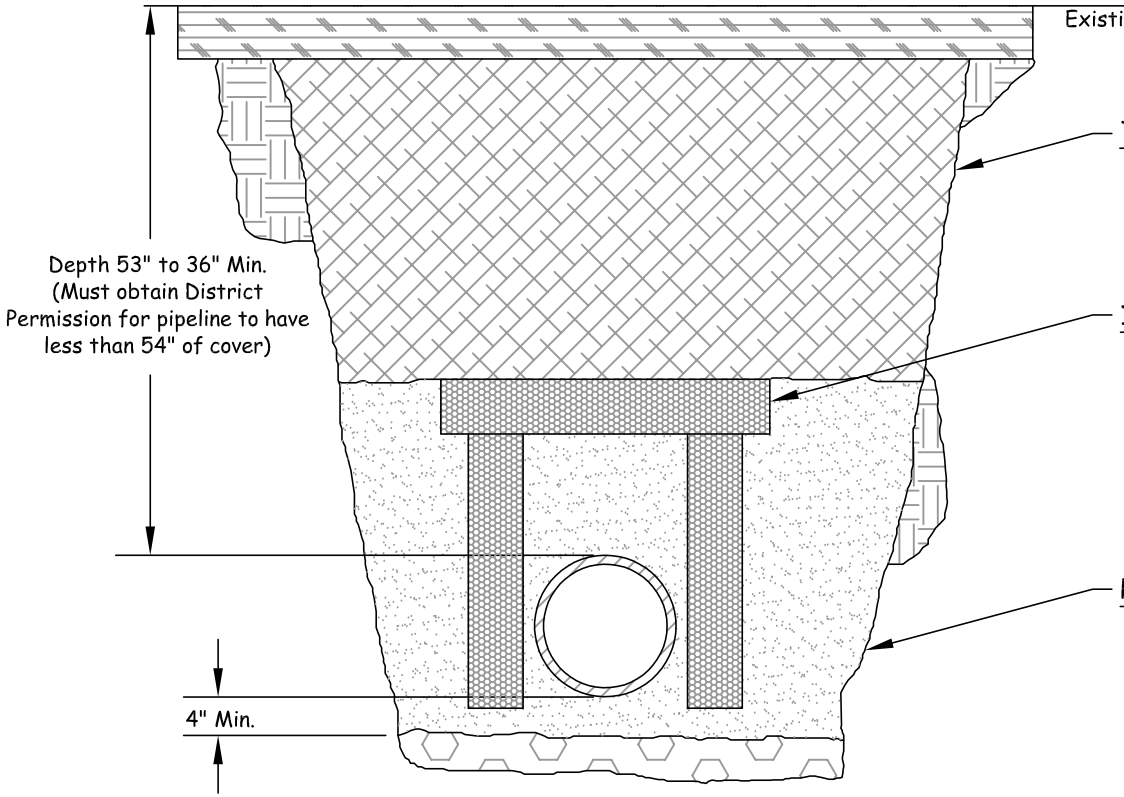

Trench backfill:

1. Trench backfill shall be per SD-10

Insulating foam:

1. 2" thick closed cell polystyrene rigid foam sheets, Type IV per ASTM C578
   - -Place one 2' by 8' section each side of water main
   - -Place 90% compacted pipe bedding to top of side insulation
   - -Place one 2'x8' section over top of side pieces and compacted bedding
2. Continue with trench backfill and finish as shown in SD-10

Pipe bedding:

1. Granular material (3/4 " max) compacted to 90% per ASTM D-1557.
2. Bedding with less than 20% passing #4 sieve shall have a non-woven class 3 (AASHTO M288-96) geotextile on all sides.

INSULATION REQUIRED WHEN TOP OF PIPE IS LESS THAN 4.5' TO FINISHED GRADE, MUST OBTAIN DISTRICT PERMISSION. SEE SD-10 FOR COMPLETE TRENCH AND FINISHED SURFACE REQUIREMENTS

MAMMOTH COMMUNITY WATER DISTRICT
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SD-11
Water Line
Trench Insulation Detail

DATE:	05/11/2020
DRAWN:	GDT/FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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SD-12
Construction Notes

1. All water pipelines 4" or greater in diameter shall be constructed of ductile iron pipe conforming with ANSI/AWWA C151/A21.51 and use ductile iron fittings per ANSI/AWWA C110/A21.10 or C153/A21.53.

2. Minimum cover on water pipelines shall be 4'-6''.

3. Thrust restraint shall be installed at all pipeline bends, tees, crosses, valves, and dead ends in accordance with SD-20, and the details shown on plans.

4. Minimum horizontal separation of water mains and sanitary sewer lines shall be 10 feet. Minimum vertical separation shall be 1 foot at all water main and sanitary sewer line crossings. If local conditions do not allow for the above Basic Separation Standards, then alternate construction criteria specified in the California State Water Resources Control Board "California Regulations Related to Drinking Water" shall be employed.

5. Minimum horizontal separation of water mains and storm drains, recycled water, or raw water shall be 4 feet. Minimum vertical separation shall be 1 foot.

6. All water pipelines shall be hydrostatically pressure tested per AWWA C600. All leaks or defective pipe shall be replaced or repaired prior to placing any water pipeline in service.

7. Water pipelines shall be disinfected in accordance with the requirements of AWWA C651 and any additional requirements of the Mammoth Community Water District prior to placing any water pipeline in service.

8. All trenching, pipeline installation and backfill shall conform with the design standards and regulations of the Mammoth Community Water District and are subject to District inspection and approval.

9. Contractor shall notify Mammoth Community Water District two working days before work begins, and one working day before the time inspection is to be made.

10. Contractor shall maintain records of all as-built pipeline and appurtenance locations and shall furnish all such records to Mammoth Community Water District upon completion of the work. All location changes must be approved by the District.

11. All revisions and modifications of details or substitutions of materials for pipelines and appurtenances shall be approved by the District.

12. Work within the Town of Mammoth Lakes right-of-way shall comply with the encroachment permit. All such work shall be performed in accordance with Title 12, chapter 12.04 (Encroachments and Excavations) of the Town of Mammoth Lakes.

13. Existing utilities information shown is approximate only; additional utilities may exist. The actual existence, location, and size of existing utilities shall be determined by the contractor. This includes, but is not limited to, contacting Underground Services Alert of Northern California and Nevada at 811, or 1-800-642-2444 for a location request.

14. All property lines and rights of way shown for reference only. Line locations are not deemed accurate by MCWD and should be considered approximate.

DATE:	05/11/2020
DRAWN:	GDT/FTC/DEC
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SCALE:	NTS

SD-12
Construction Notes

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WATER DISTRICT
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SD-13
Water Lateral Construction Notes

1. Minimum horizontal separation of water lines and sanitary sewer lines shall be 10 feet. Minimum vertical separation shall be 1 foot at all water line and sanitary sewer line crossings. If local conditions do not allow for the above Basic Separation Standards, then alternate construction criteria specified in the California State Water Resources Control Board "California Regulations Related to Drinking Water" shall be employed.

2. Once on private property, yard piping will adhere to most recent California Plumbing Code Standards.

3. All trenching, pipeline installation and backfill shall conform with the design standards and regulations of the Mammoth Community Water District and are subject to District inspection and approval.

4. Work within the Town of Mammoth Lakes right-of-way shall comply with the encroachment permit. All such work shall be performed in accordance with Title 12, Chapter 12.04 (Encroachments and Excavations) of the Town of Mammoth Lakes.

5. All underground service line valves and fittings shall be in accordance with AWWA C800.

6. See separate Meter Specifications, SD-24 and SD-25, for complete details of meter installation.

7. Contractor must notify U.S.A. alert at 811, or (800) 642-2444, at least two working days prior to any digging or excavation.

DATE:	05/11/2020
DRAWN:	GCS/FTC/DEC
APPROVED:	JFP
SCALE:	NTS

SD-13
Water Lateral
Construction Notes

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WATER DISTRICT
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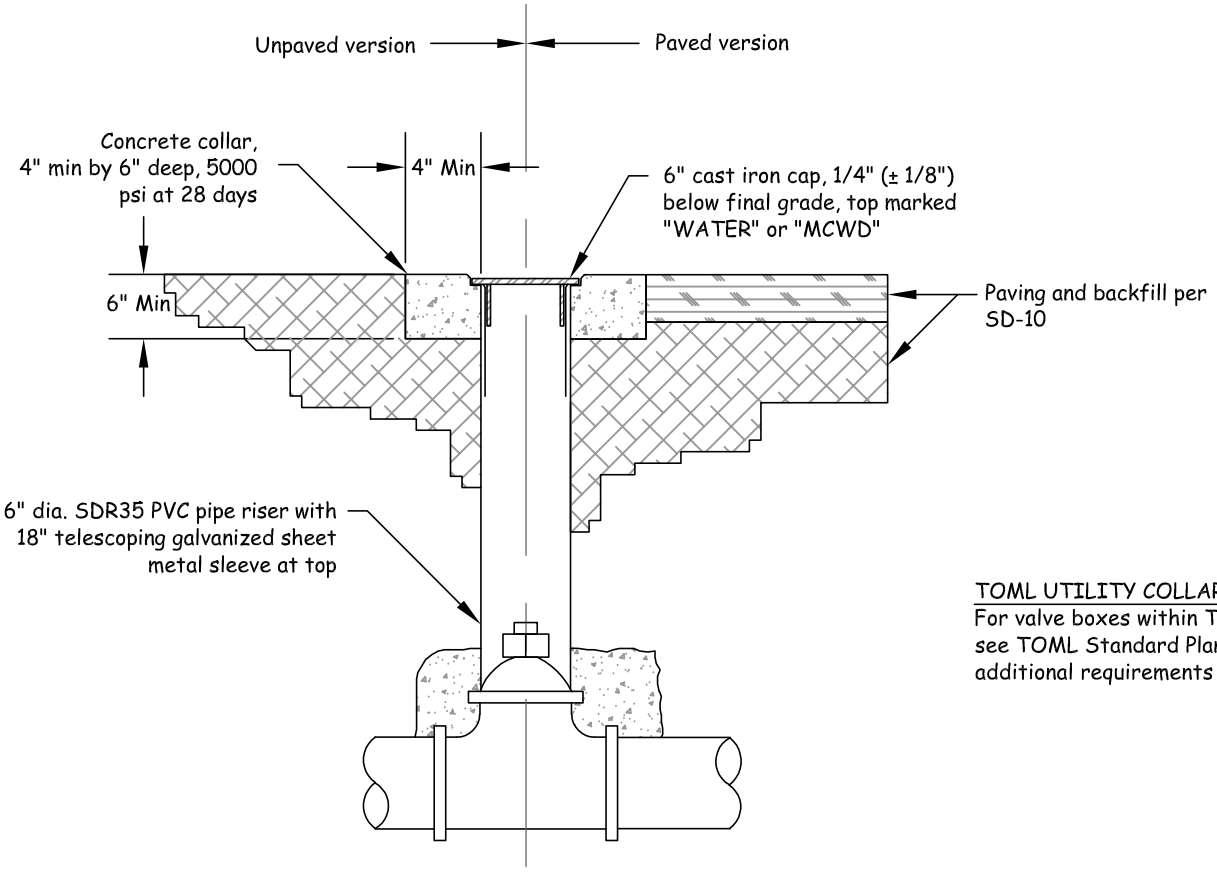

TOML UTILITY COLLAR NOTE:
For valve boxes within TOML right of way, see TOML Standard Plan 204-1 for additional requirements of utility collar.

MAMMOTH COMMUNITY
WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
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SD-14
Typical Valve Box

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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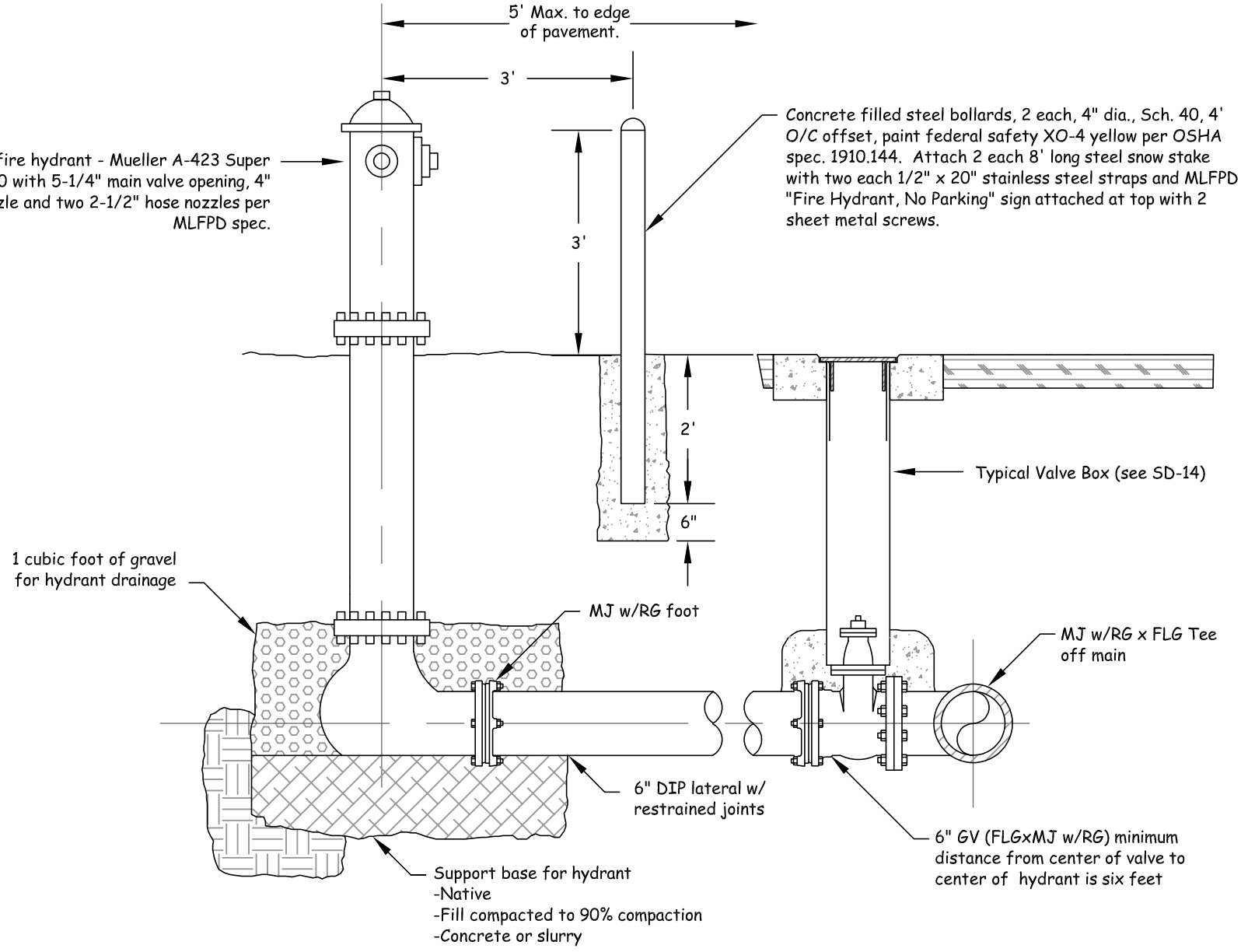

MAMMOTH COMMUNITY WATER DISTRICT
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SD-15
Fire Hydrant

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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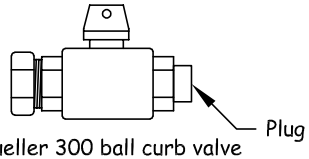
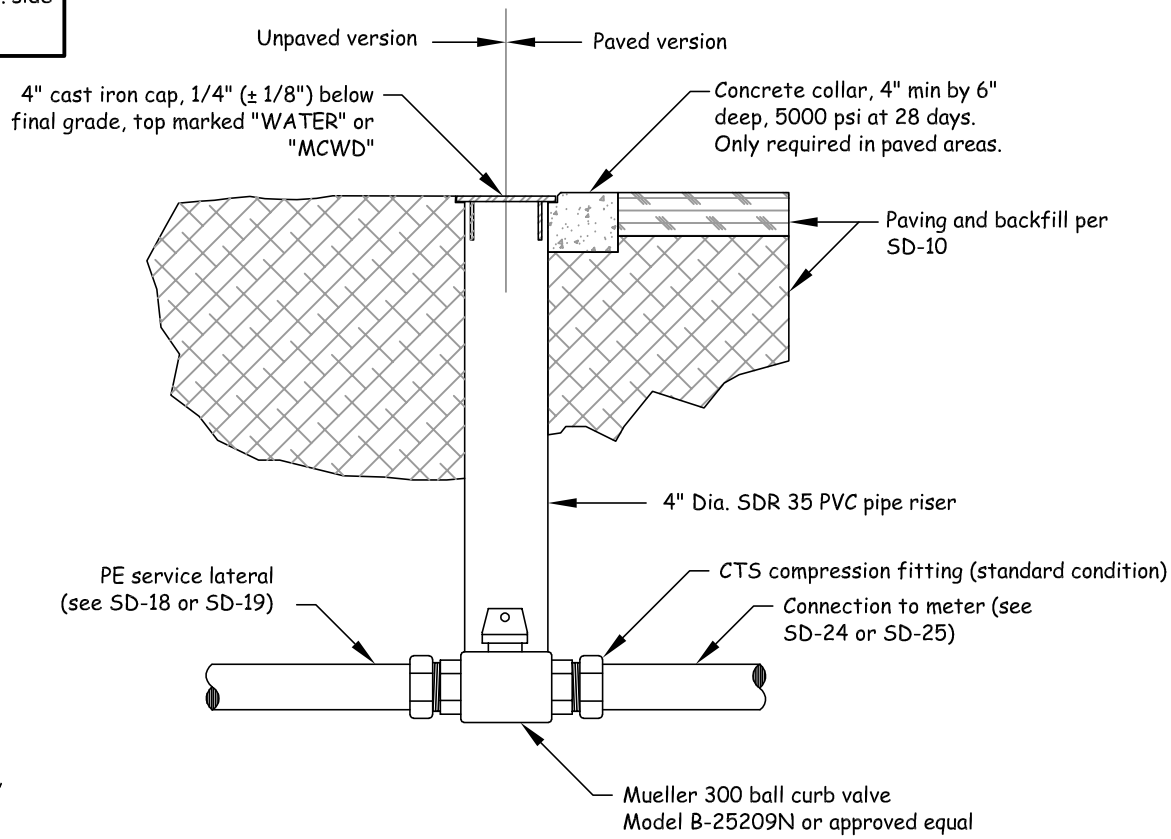
Compression x F.I.P.



Mueller 300 ball curb valve
Model B-25172N or approved equal

Note: Use compression x female curb valves in the following situations:

- Vacant lots with no meter, use plug on F.I.P. side
- All single water service laterals per SD-18



TOML UTILITY COLLAR NOTE:
For curb valves within TOML right of way, see TOML Standard Plan 204-1 for additional requirements of utility collar.

MAMMOTH COMMUNITY WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
(760) 934-2596 FAX: (760) 934-2143

SD-16
Curb Valve

DATE:	2/9/2023
DRAWN:	DEC
APPROVED:	GRH
SCALE:	NTS

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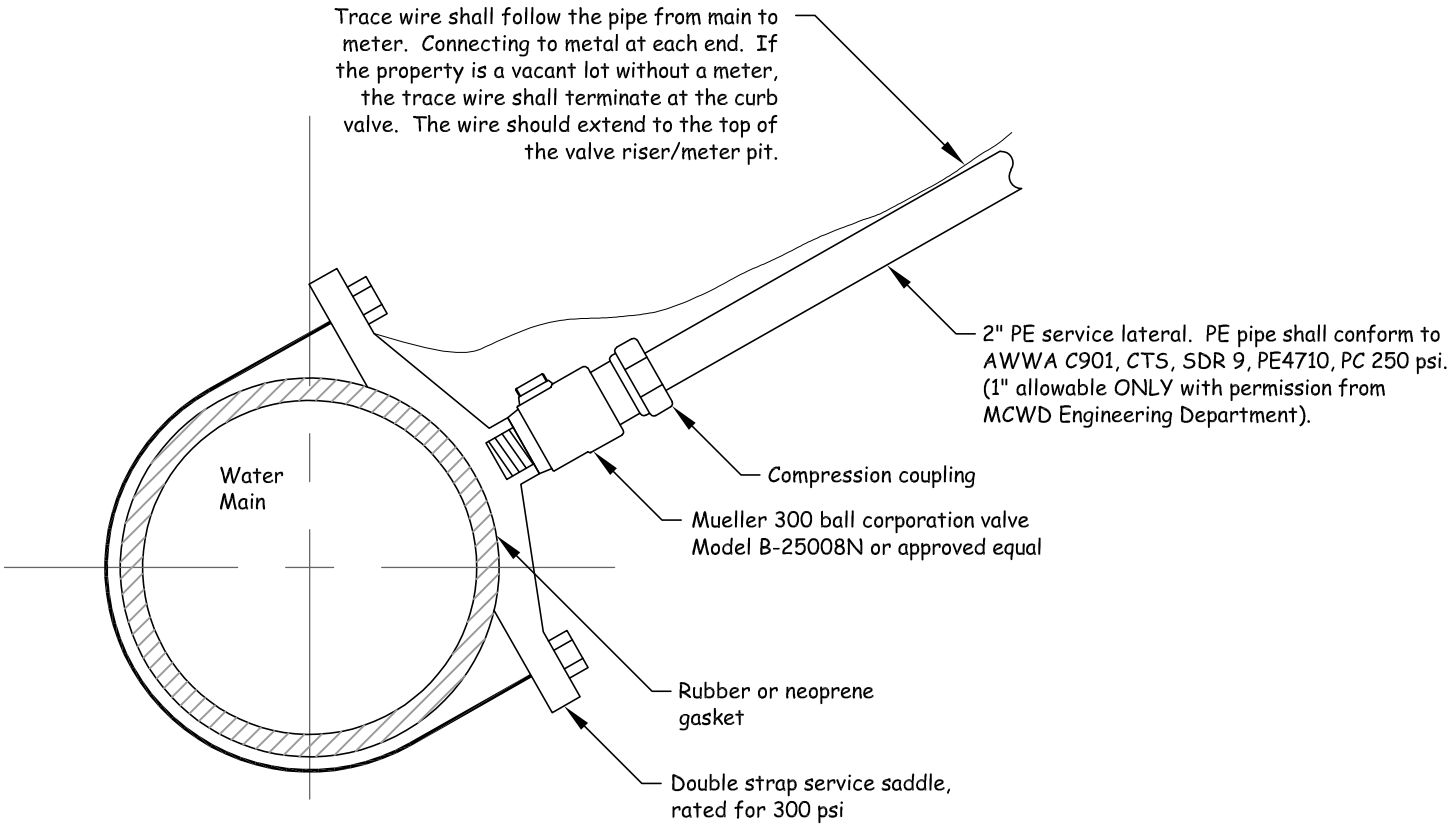
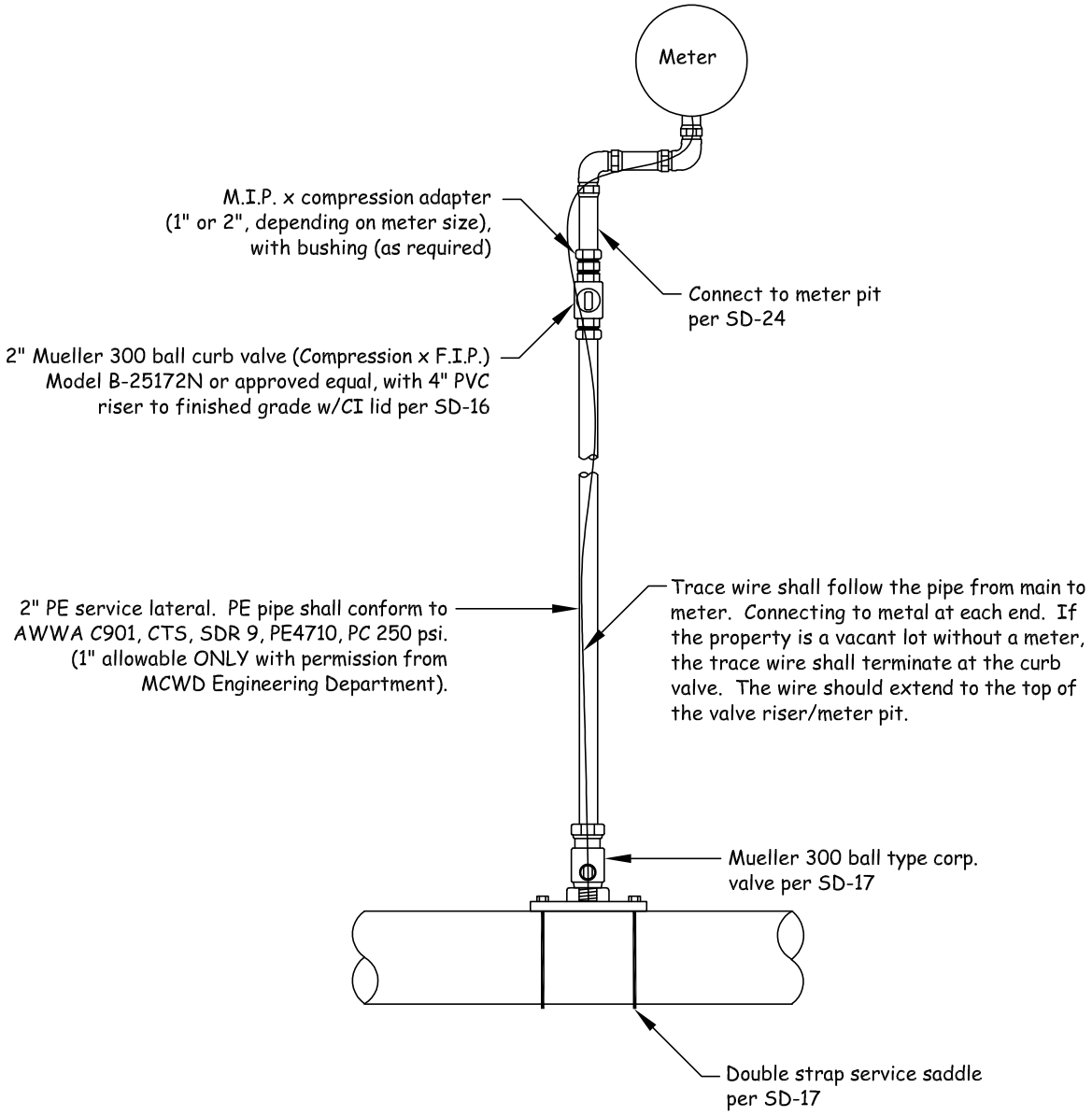


MAMMOTH COMMUNITY WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
(760) 934-2596 FAX: (760) 934-2143

SD-17
Water Service Connection To Main

DATE:	2/8/2023
DRAWN:	DEC
APPROVED:	GRH
SCALE:	NTS



MAMMOTH COMMUNITY
WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
(760) 934-2596 FAX: (760) 934-2143

SD-18
Single Water Service Lateral

DATE:	2/8/2023
DRAWN:	DEC
APPROVED:	GRH
SCALE:	NTS

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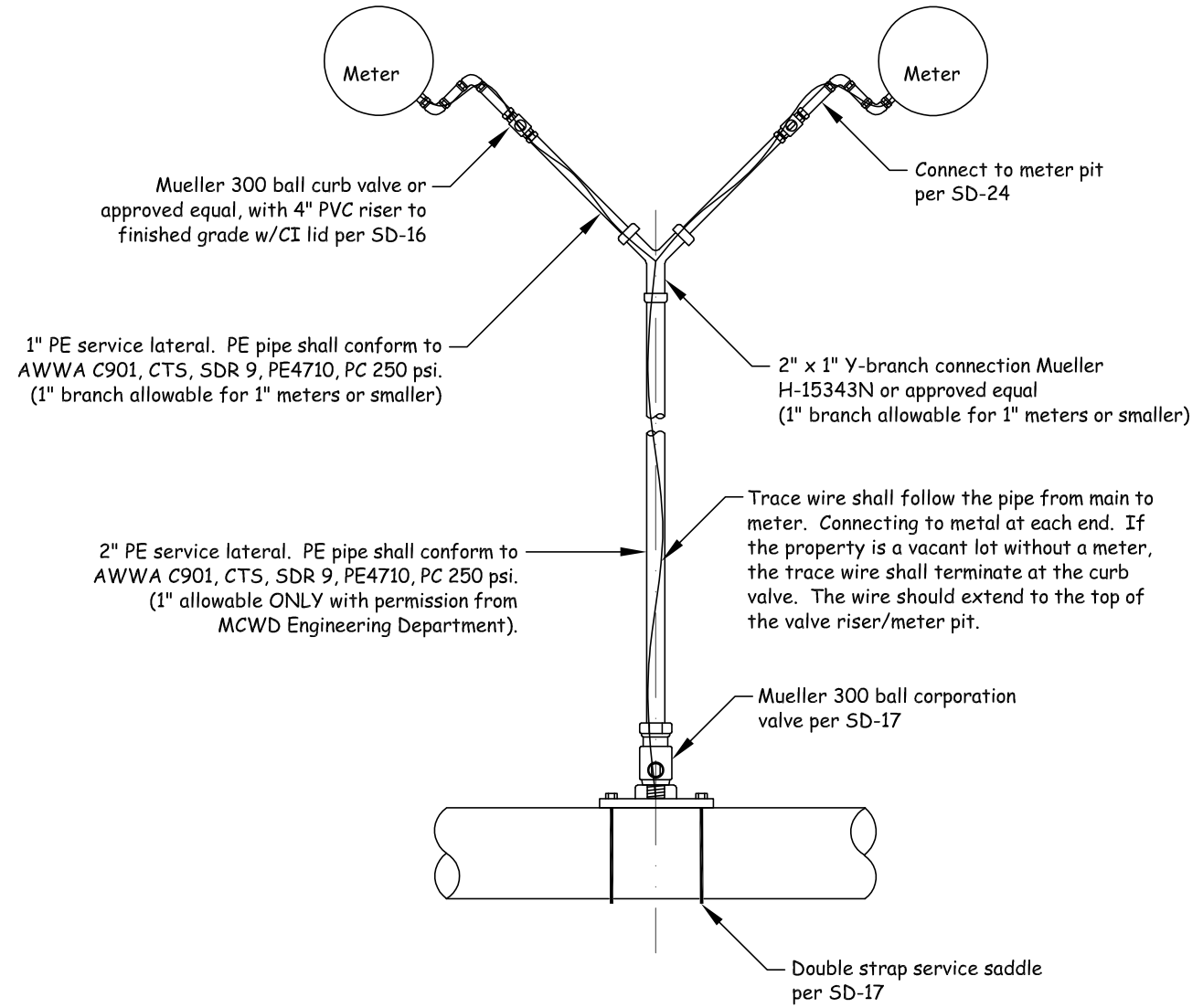

NEW CONSTRUCTION

MAMMOTH COMMUNITY WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
(760) 934-2596 FAX: (760) 934-2143

SD-19 Double Water Service Lateral

DATE:	2/9/2023
DRAWN:	DEC
APPROVED:	GRH
SCALE:	NTS

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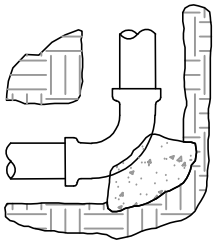
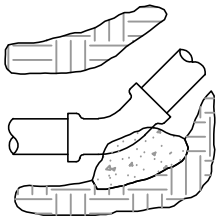
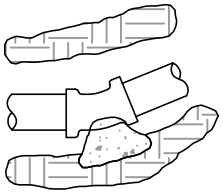
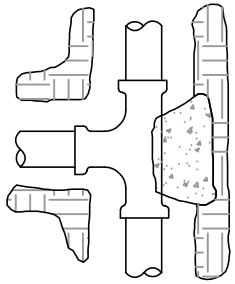
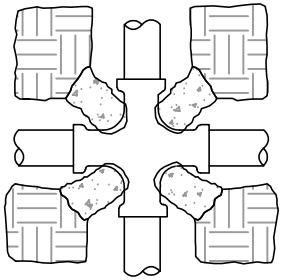
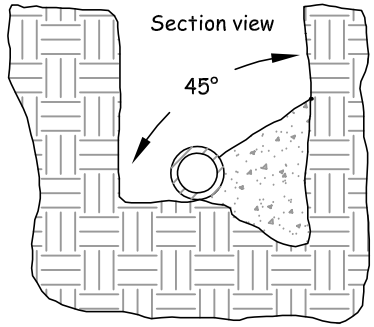
Type of Fitting	90° Bend	45° Bend	11 ¼° or 22 ½° Bend		Tee, Valve or Dead End	Cross
Typical Installation Plan View						
Pipe Dia.	Min. Bearing Area in Square Feet		$22\frac{1}{2}°$	$11\frac{1}{4}°$	Min. Bearing Area in Square Feet	
6 "	9 sq. ft.	5 sq. ft.	2 sq. ft.	1 sq. ft.	6 sq. ft.	3 sq. ft.
8"	16 sq. ft.	8 sq. ft.	4 sq. ft.	2 sq. ft.	11 sq. ft.	6 sq. ft.
10"	24 sq. ft.	13 sq. ft.	7 sq. ft.	3 sq. ft.	17 sq. ft.	9 sq. ft.
12"	34 sq. ft.	19 sq. ft.	10 sq. ft.	5 sq. ft.	24 sq. ft.	13 sq. ft.

Thrust Block Notes:

1. Thrust blocks shall be constructed of 2000 psi concrete.
2. Areas shown are for a test pressure of 200 psi with 1500 psf soil bearing capacity. Installation using different test pressure and/or soil type shall be adjusted accordingly, subject to review by the engineer.
3. Thrust blocks shall be poured against undisturbed soil.
4. Joints shall be kept clear of concrete.



Note: Thrust restraint shall be per SD-20.1, SD-20.2 and SD-20.3 **OR** SD-20.4 and SD-20.5.

MAMMOTH COMMUNITY WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
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SD-20.1 Concrete Thrust Restraints

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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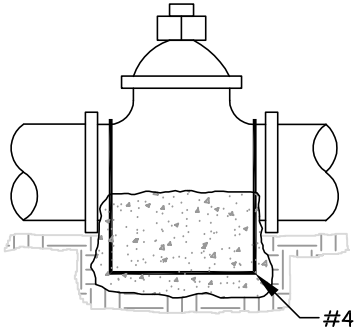
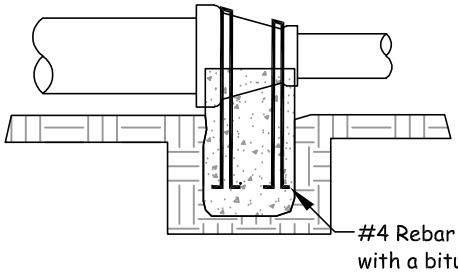
Type of Fitting	Valves	Reducers	
Typical Installation Plan View			
Pipe Dia.	Min. Bearing Area in Square Feet	Reducer	Min. Bearing Area in Square Feet
6 "	6 sq. ft.	6x4	3 sq. ft.
8"	11 sq. ft.	8x6	5 sq. ft
10"	17 sq. ft.	10x8	6 sq. ft
12"	24 sq. ft.	12x10	7 sq. ft.
		12x8	13 sq. ft.

Thrust Block Notes:

1. Thrust blocks shall be constructed of 2000 psi concrete.
2. Areas shown are for a test pressure of 200 psi with 1500 psf soil bearing capacity. Installation using different test pressure and/or soil type shall be adjusted accordingly, subject to review by the engineer.
3. Thrust blocks shall be poured against undisturbed soil.
4. Joints shall be kept clear of concrete.

Note: Thrust restraint shall be per SD-20.1, SD-20.2 and SD-20.3 **OR** SD-20.4 and SD-20.5.

MAMMOTH COMMUNITY WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
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SD-20.2 Concrete Thrust Restraints

DATE:	05/11/2020
DRAWN:	PWC/DEC
APPROVED:	JFP
SCALE:	NTS

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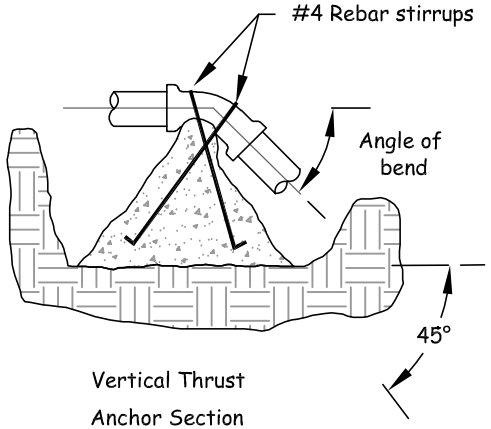

Vertical Thrust Anchor Section

Anchor Volume (Cubic Feet)

Pipe Dia.	Angle of Vertical Bend			
	11¼°	22½°	45°	90°
6"	12 cu. ft.	24 cu. ft.	44 cu. ft.	62 cu. ft.
8"	22 cu. ft.	42 cu. ft.	78 cu. ft.	111 cu. ft.
10"	33 cu. ft.	65 cu. ft.	120 cu. ft.	170 cu. ft.
12"	48 cu. ft.	94 cu. ft.	173 cu. ft.	245 cu.ft.

Vertical Thrust Anchor Notes:

1. Vertical thrust anchors shall be constructed of 2000 psi concrete with a density of at least 150 lbs/cu ft.
2. Areas shown are for a test pressure of 200 psi. Installation using different test pressure shall be adjusted accordingly subject to review by the engineer.
3. Vertical thrust anchors shall be poured against undisturbed soil.
4. Joints shall be kept clear of concrete.

Note: Thrust restraint shall be per SD-20.1, SD-20.2 and SD-20.3 **OR** SD-20.4 and SD-20.5.

MAMMOTH COMMUNITY WATER DISTRICT
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SD-20.3 Concrete Thrust Restraints

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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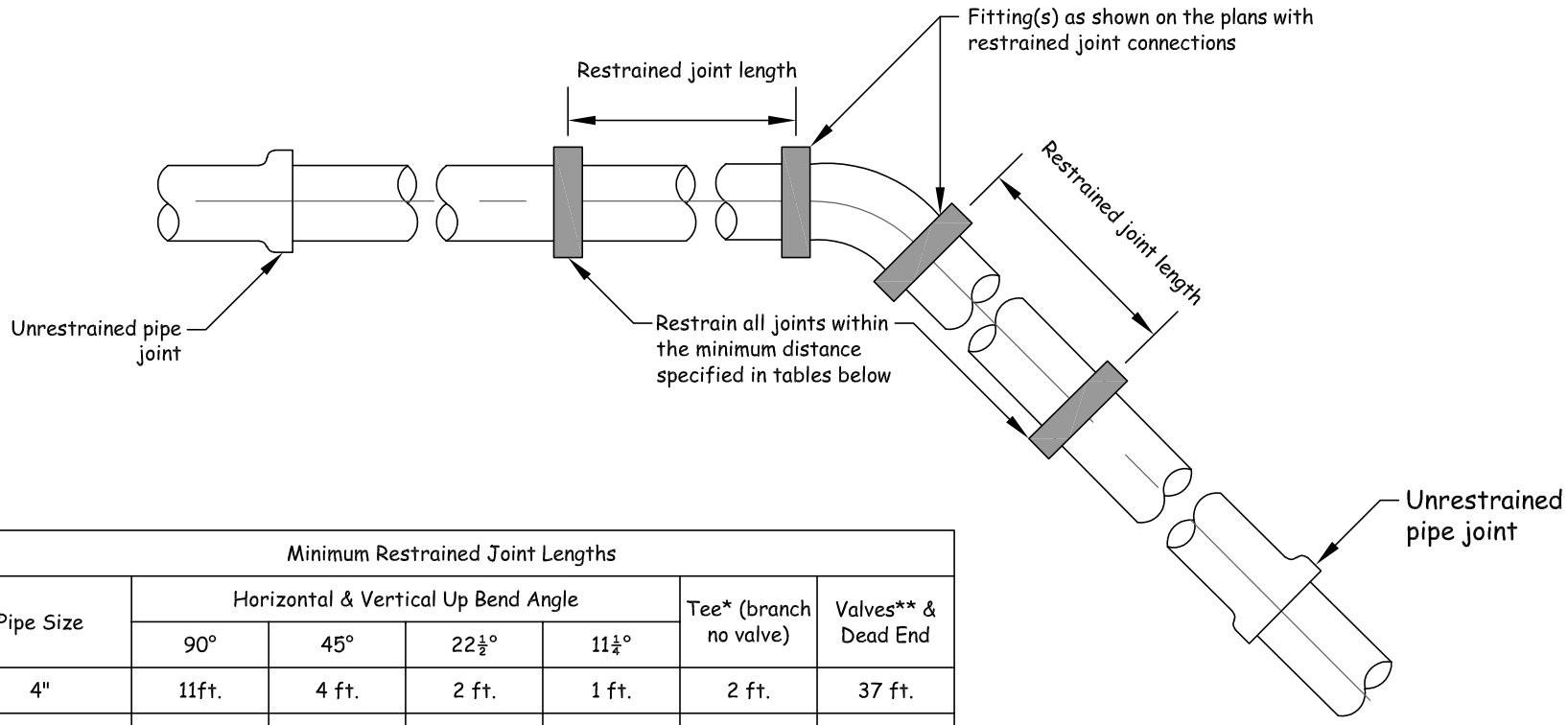

Minimum Restrained Joint Lengths						
Pipe Size	Horizontal & Vertical Up Bend Angle				Tee* (branch no valve)	Valves** & Dead End
	90°	45°	22½°	11¼°		
4"	11ft.	4 ft.	2 ft.	1 ft.	2 ft.	37 ft.
6"	15 ft.	6 ft.	3 ft.	1 ft.	18 ft.	53 ft.
8"	20 ft.	8 ft.	4 ft.	2 ft.	34 ft.	69 ft.
10"	24 ft.	10 ft.	5 ft.	2 ft.	48 ft.	84 ft.
12"	28 ft.	11 ft.	5 ft.	3 ft.	63 ft.	99 ft.

*The joints on the runs of the Tee shall be restrained for 7 ft. min.
**When a valve is present, it shall be treated as a dead end in all cases. Inline valves treated as dead end, both sides.

Reducer	Restrained Length
12x10	29 ft
10x8	28 ft
8x6	29 ft

Note: Restraint only required on the side with larger diameter.

Note: Thrust restraint shall be per SD-20.1, SD-20.2 and SD-20.3 **OR** SD-20.4 and SD-20.5.

MAMMOTH COMMUNITY WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
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SD-20.4 Mechanical Thrust Restraints

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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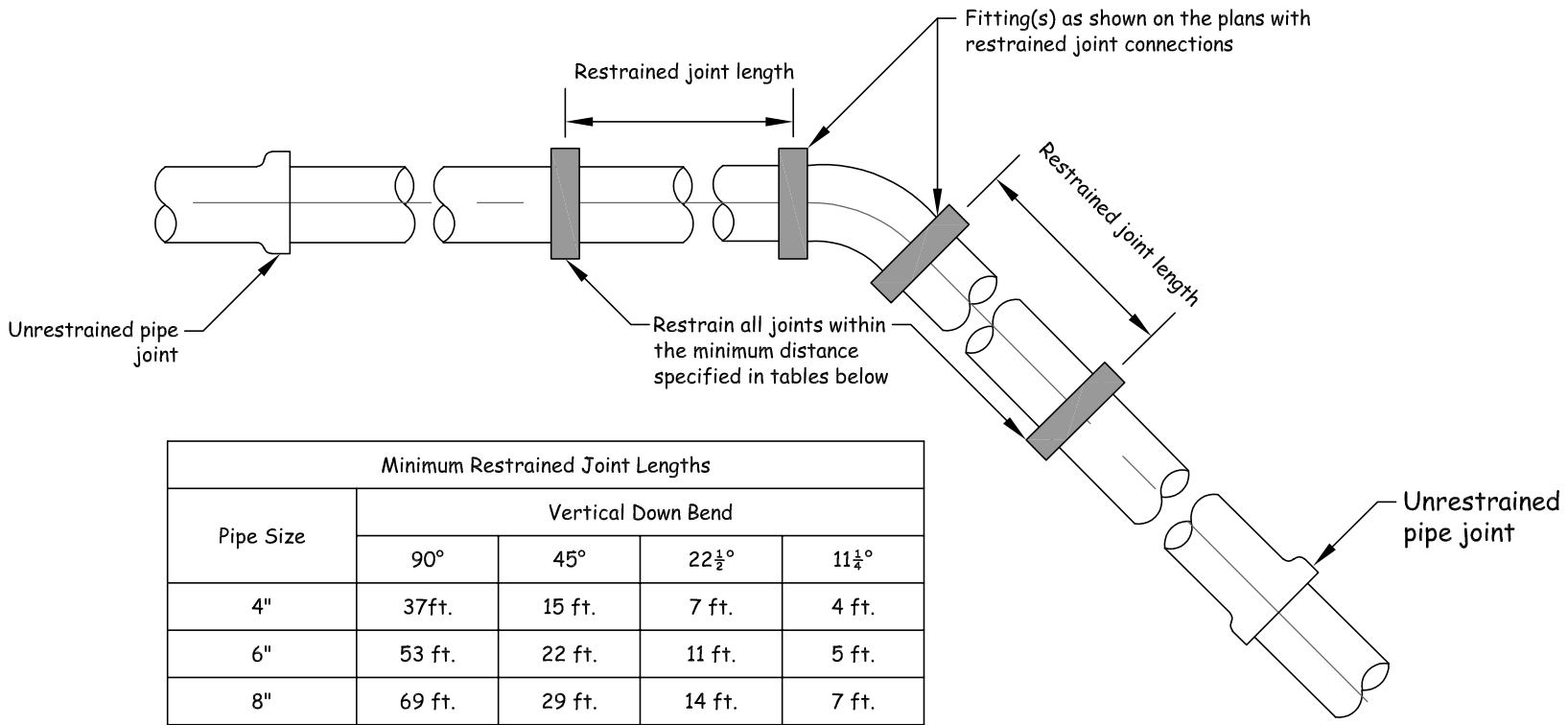

Minimum Restrained Joint Lengths				
Pipe Size	Vertical Down Bend			
	90°	45°	22½°	11¼°
4"	37ft.	15 ft.	7 ft.	4 ft.
6"	53 ft.	22 ft.	11 ft.	5 ft.
8"	69 ft.	29 ft.	14 ft.	7 ft.
10"	84 ft.	35 ft.	17 ft.	8 ft.
12"	99 ft.	41 ft.	20 ft.	10 ft.

Note: Thrust restraint shall be per SD-20.1, SD-20.2 and SD-20.3 **OR** SD-20.4 and SD-20.5.

MAMMOTH COMMUNITY WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
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SD-20.5 Mechanical Thrust Restraints

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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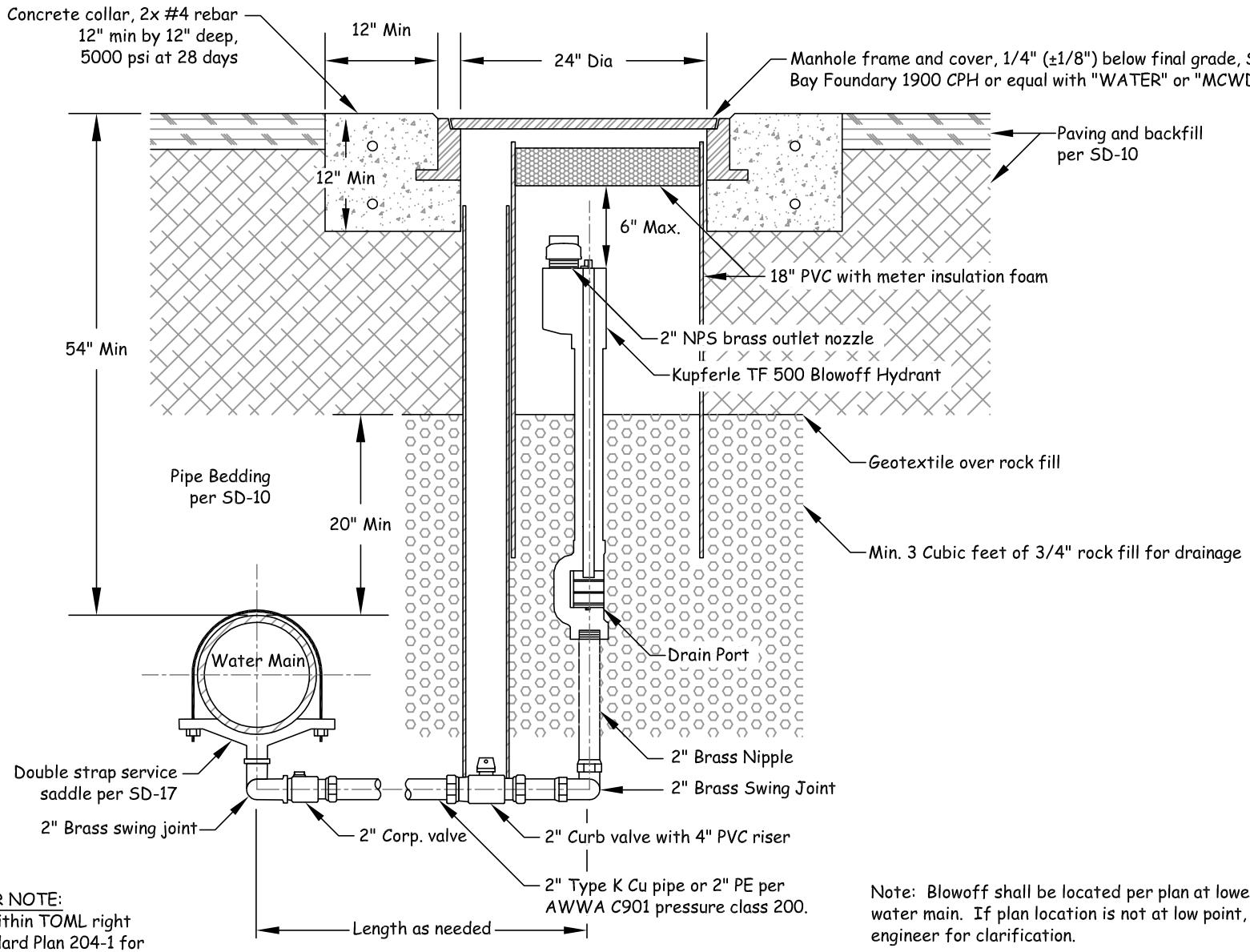

TOML UTILITY COLLAR NOTE:
For blow off assembly within TOML right of way, see TOML Standard Plan 204-1 for additional requirements of utility collar.

Note: Blowoff shall be located per plan at lowest elevation of water main. If plan location is not at low point, consult design engineer for clarification.

MAMMOTH COMMUNITY WATER DISTRICT
P.O.Box 597 Mammoth Lakes, CA 93546
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SD-21
Blowoff Assembly

DATE:	05/11/2020
DRAWN:	FTC/PWC/DEC
APPROVED:	
SCALE:	NTS

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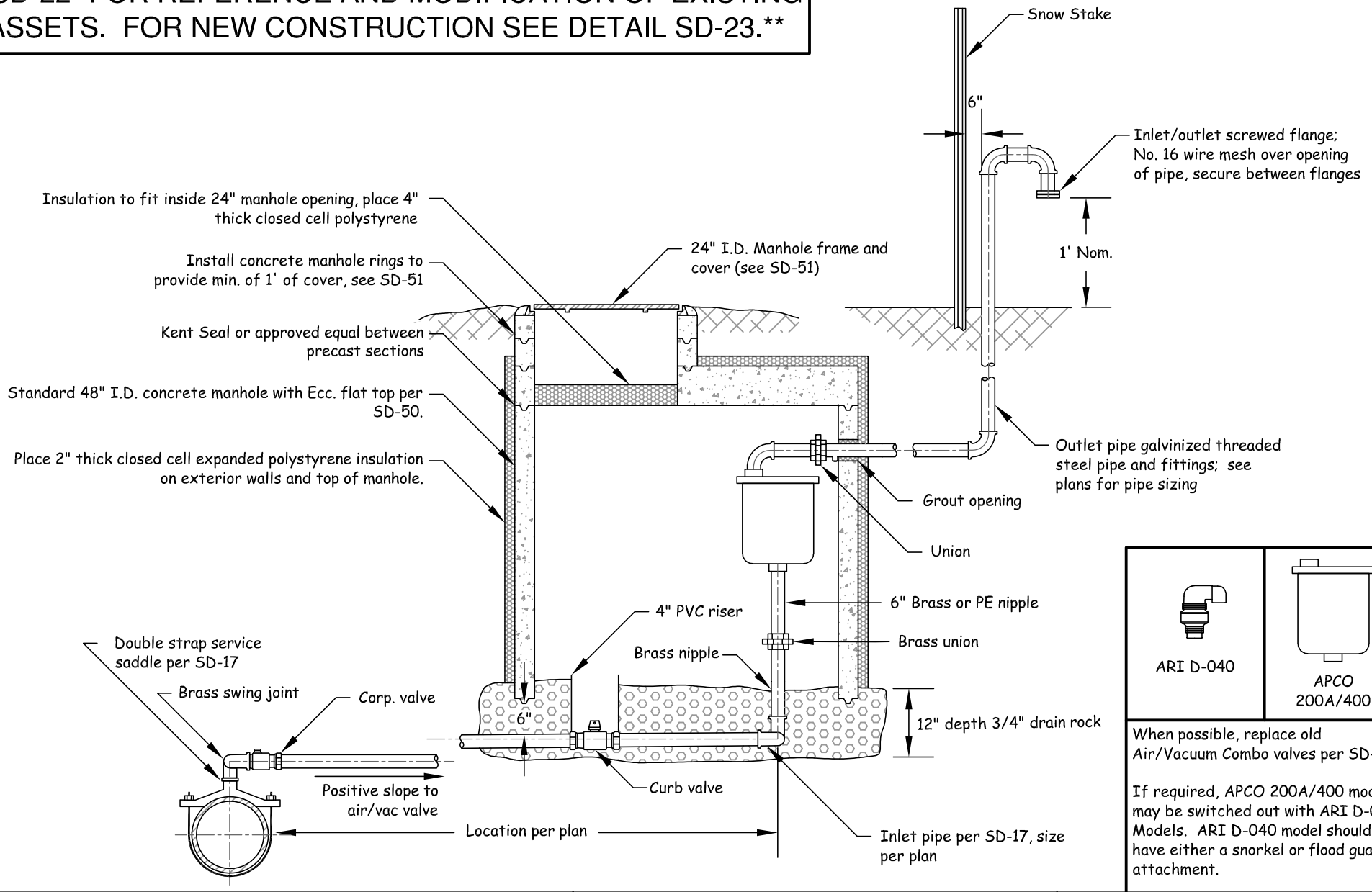
SD-22- FOR REFERENCE AND MODIFICATION OF EXISTING ASSETS. FOR NEW CONSTRUCTION SEE DETAIL SD-23.



ARI D-040

APCO 200A/400

When possible, replace old Air/Vacuum Combo valves per SD-23.

If required, APCO 200A/400 models may be switched out with ARI D-040 Models. ARI D-040 model should have either a snorkel or flood guard attachment.

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SD-22 Air/Vacuum Release Assembly

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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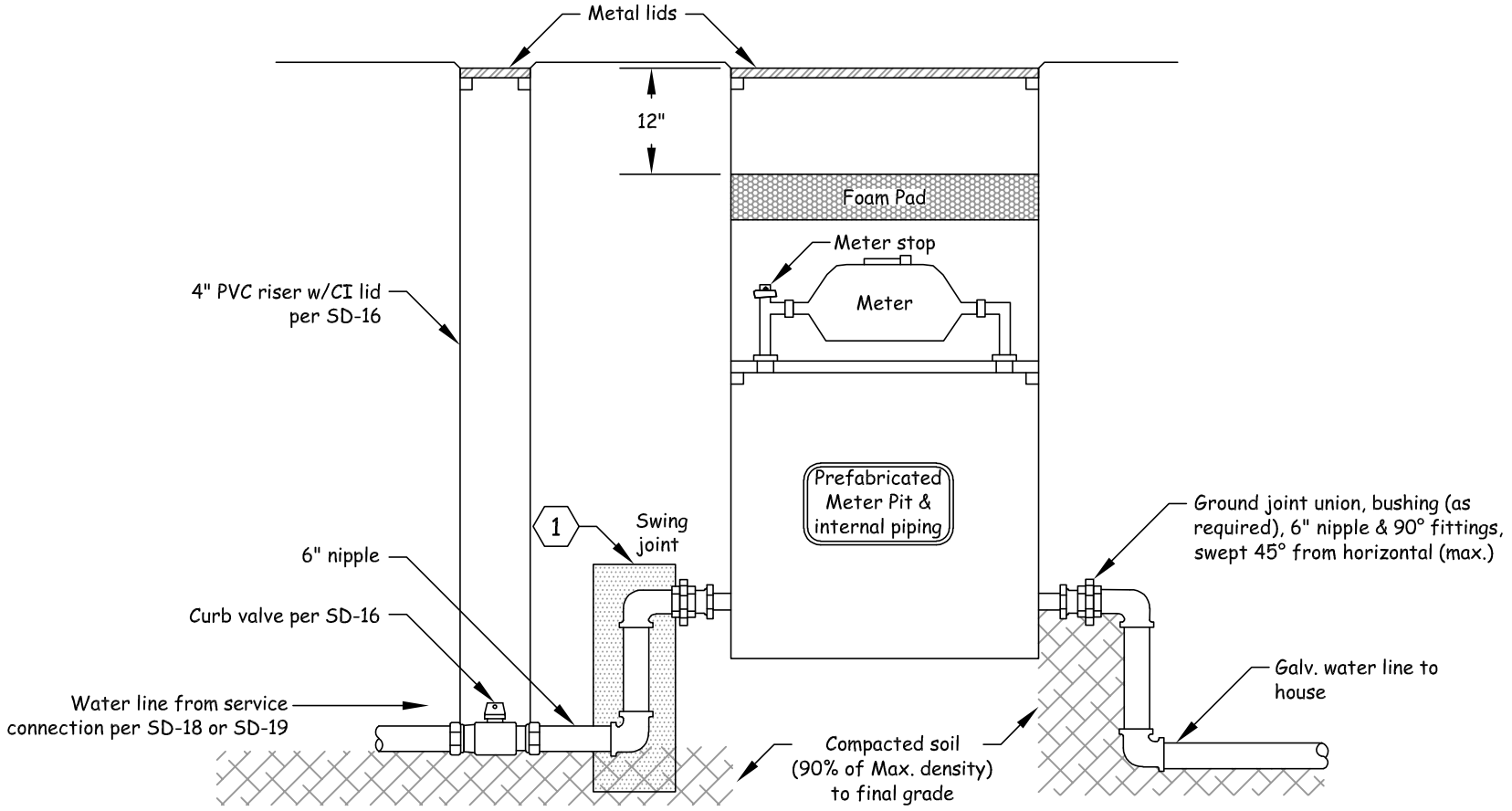
SD-25- FOR REFERENCE AND MODIFICATION OF EXISTING ASSETS. FOR NEW CONSTRUCTION SEE DETAIL SD-24.

For ¾" to 2" Meters, Galvanized Building Supply and Galvanized Service Lateral



1. The pipe and fittings provided shall be installed as shown except for the optional bushings. If more adjustment to grade is required than can be made with the pipe and fittings provided, additional pipe may be added to swing joint to make the adjustment to grade.

MAMMOTH COMMUNITY WATER DISTRICT
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SD-25.1 Meter Installation Galvanized

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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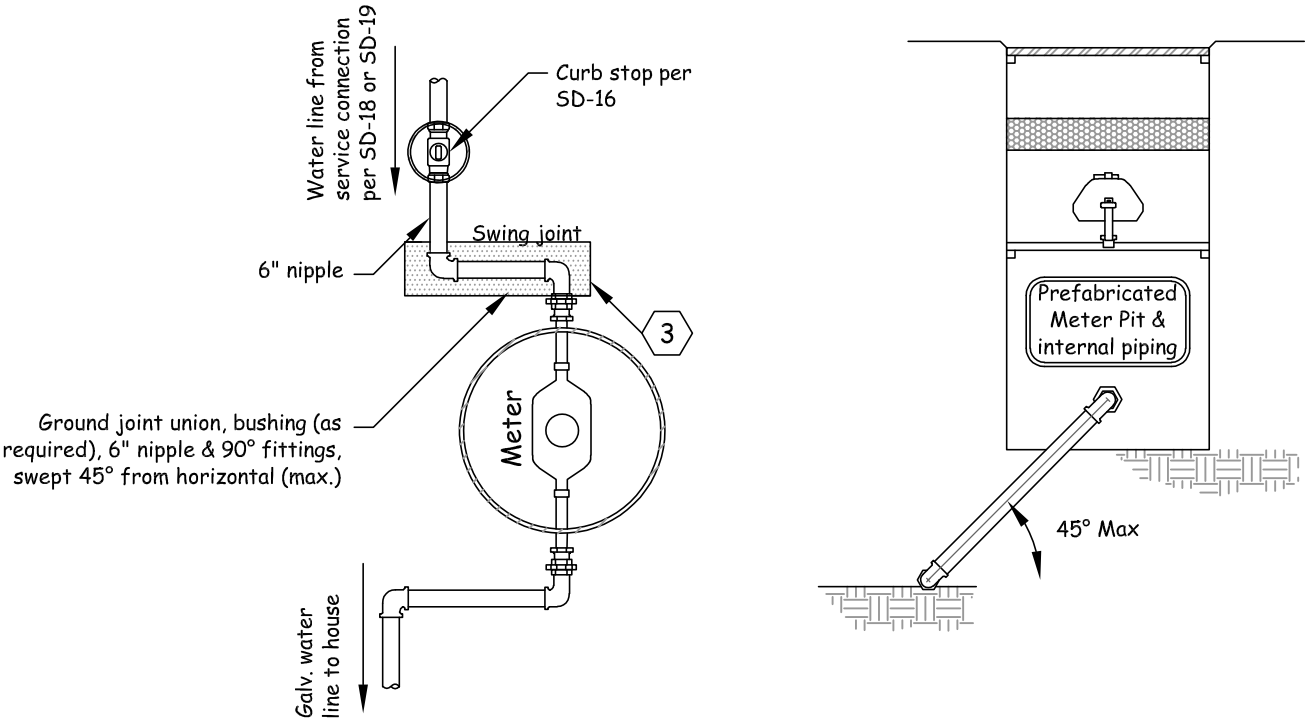
SD-25- FOR REFERENCE AND MODIFICATION OF EXISTING ASSETS. FOR NEW CONSTRUCTION SEE DETAIL SD-24.

For ¾" to 2" Meters, Galvanized Building Supply and Galvanized Service Lateral



NOTES:

1. Meter to be placed at the property line, flush with finish grade in an unpaved area that is not plowed in winter.
2. The foam pad shall be placed 12" below the meter pit lid. The pad creates a pocket of warm air rising from the ground below. Never fill the pit with insulation below the pad.
3. The pipe and fittings provided shall be installed as shown except for the optional bushings. If more adjustment to grade is required than can be made with the pipe and fittings provided, additional pipe may be added to swing joint to make the adjustment to grade.

MAMMOTH COMMUNITY WATER DISTRICT
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SD-25.2 Meter Installation Galvanized

DATE:	05/11/2020
DRAWN:	FTC/DEC
APPROVED:	JFP
SCALE:	NTS

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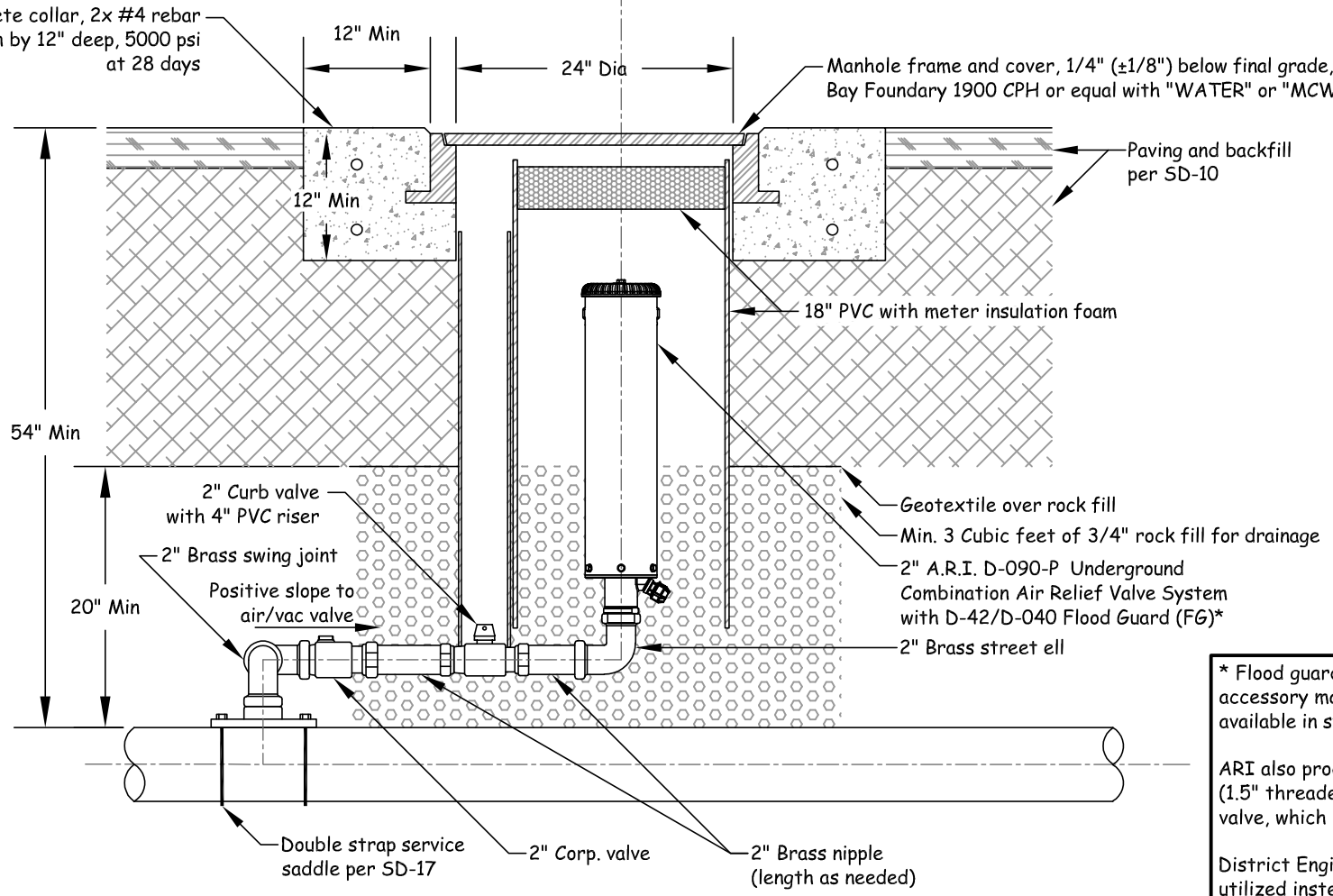
Note: Air valve shall be located per plan at highest elevation of water main. If plan location is not at high point, consult design engineer for clarification.

TOML UTILITY COLLAR NOTE:
For air/vac combo valves within TOML right of way, see TOML Standard Plan 204-1 for additional requirements of utility collar.



* Flood guard is separate special order accessory manufactured by ARI overseas, not available in standard US catalog.

ARI also produces a "vent pipe connection" (1.5" threaded PVC) attachment for D-090-P valve, which may be used to create a snorkel.

District Engineer may request that a snorkel is utilized instead of flood guard. If this is requested, refence SD-22 for snorkel concept.

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SD-23 Combination Air Valve Installation

DATE:	05/11/2020
DRAWN:	JRN/PWC/DEC
APPROVED:	JFP
SCALE:	NTS

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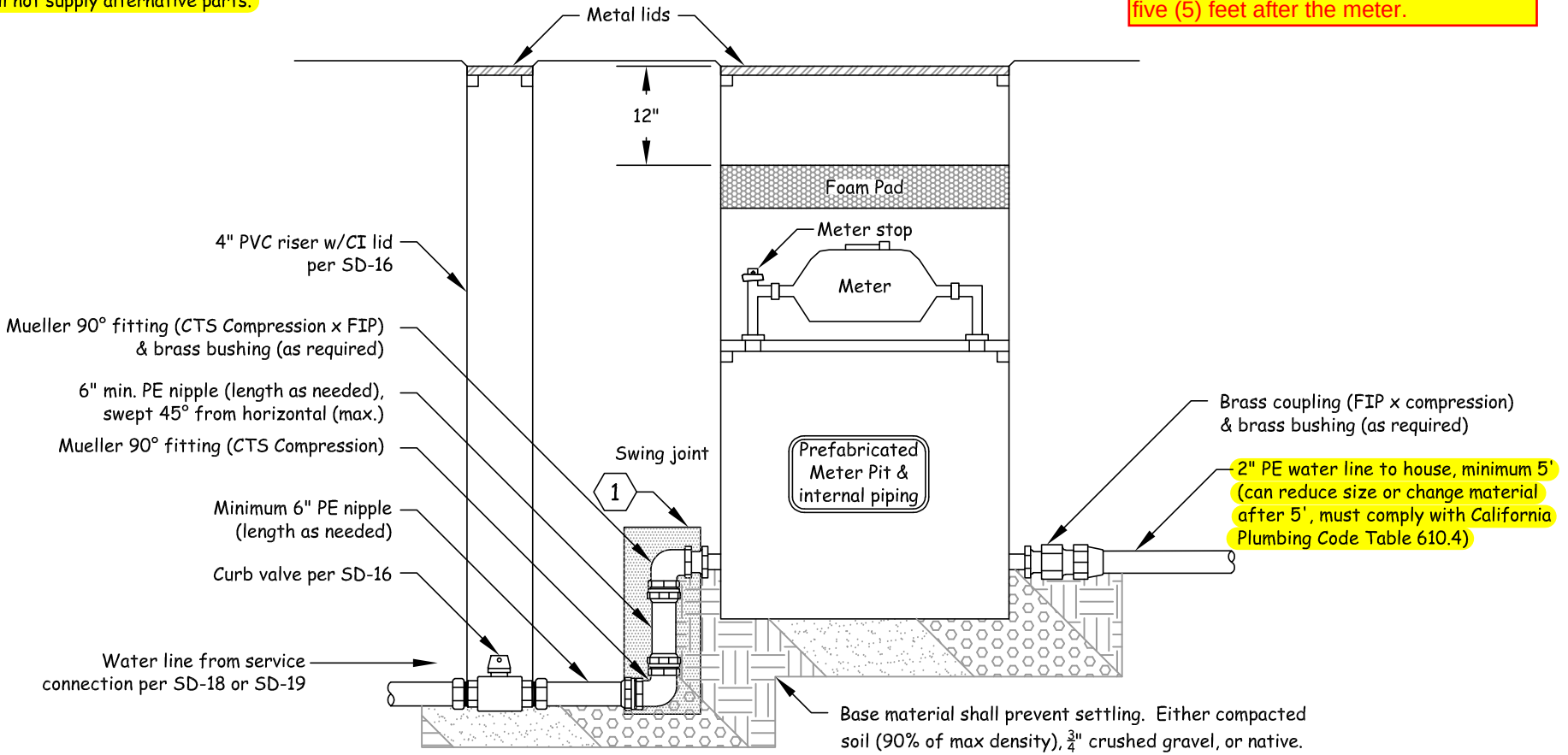
Material Note:
The fittings and pipe specified are included in meter costs for MCWD Connection Permits. Owner/Contractor can use alternative parts, provided installation meets checklist requirements. MCWD will not supply alternative parts.

For ¾" to 2" Meters, PE Building Supply and Service Lateral

New requirements as of 2023. Please note all service lines on the customer side of meter must be 2" PE for the first five (5) feet after the meter.



1. The pipe and fittings provided shall be installed as shown except for the optional bushings. If more adjustment to grade is required than can be made with the pipe and fittings provided, additional pipe may be added to swing joint to make the adjustment to grade.

MAMMOTH COMMUNITY WATER DISTRICT
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SD-24.1 Meter Installation PE Lateral

DATE:	7/19/2023
DRAWN:	DEC
APPROVED:	GRH
SCALE:	NTS

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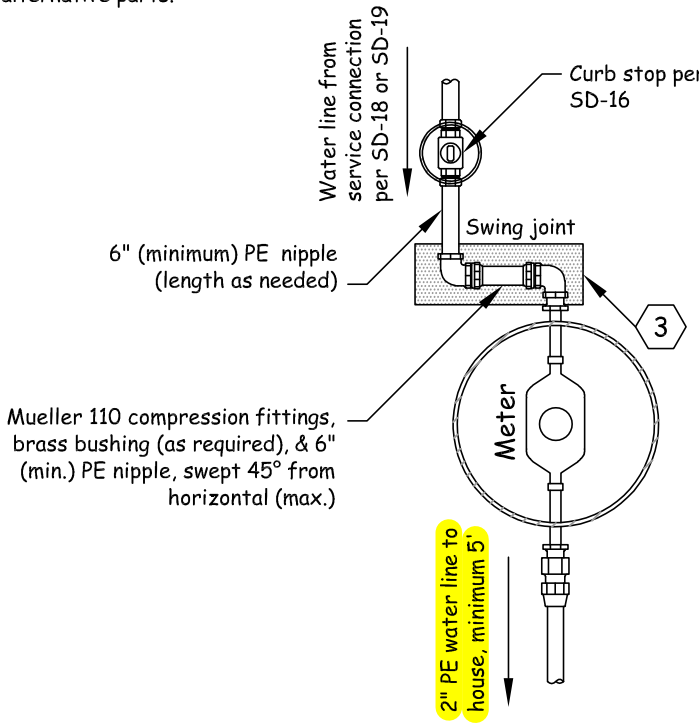
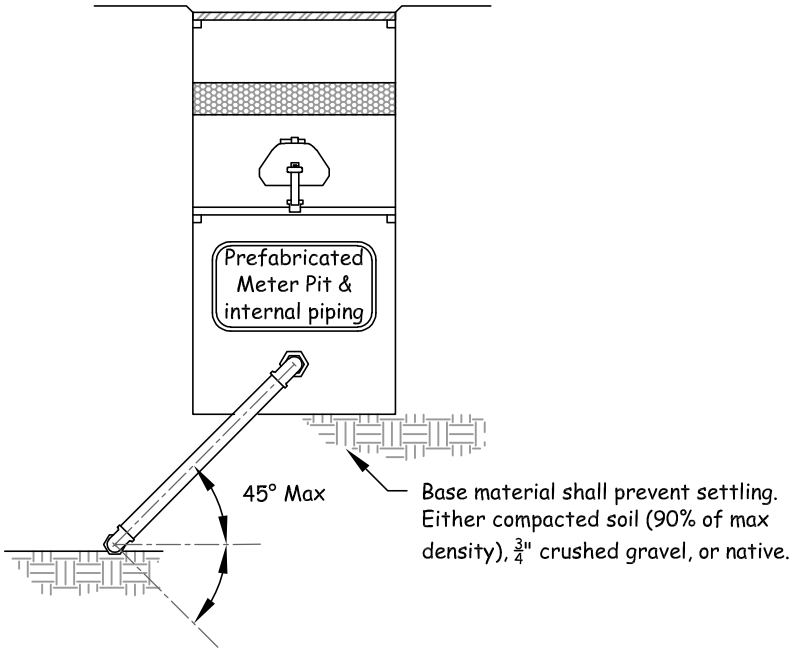
Material Note:
The fittings and pipe specified are included in meter costs for MCWD Connection Permits. Owner/Contractor can use alternative parts, provided installation meets checklist requirements. MCWD will not supply alternative parts.

For ¾" to 2" Meters, PE Building Supply and Service Lateral



TOP VIEW



SIDE VIEW

NOTES:

1. Meter to be placed at the property line, flush with finish grade in an unpaved area that is not plowed in winter.
2. The foam pad shall be placed 12" below the meter pit lid. The pad creates a pocket of warm air rising from the ground below. Never fill the pit with insulation below the pad.
3. The pipe and fittings provided shall be installed as shown except for the optional bushings. If more adjustment to grade is required than can be made with the pipe and fittings provided, additional pipe may be added to swing joint to make the adjustment to grade.

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SD-24.2 Meter Installation PE Lateral

DATE:	2/9/2023
DRAWN:	DEC
APPROVED:	GRH
SCALE:	NTS

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