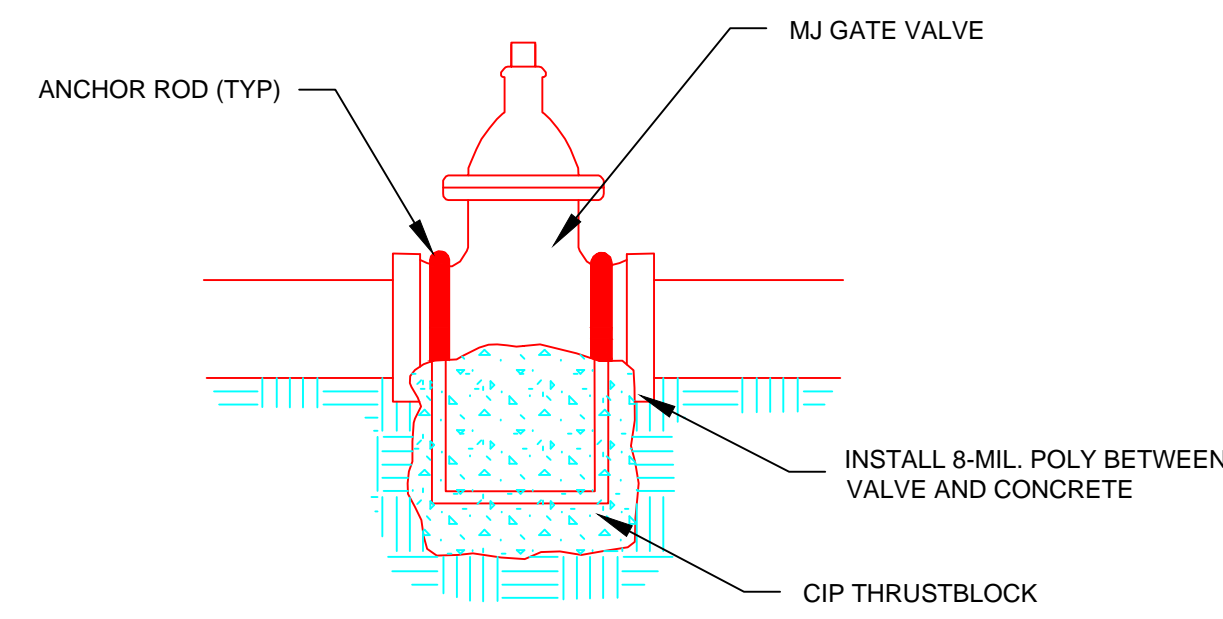
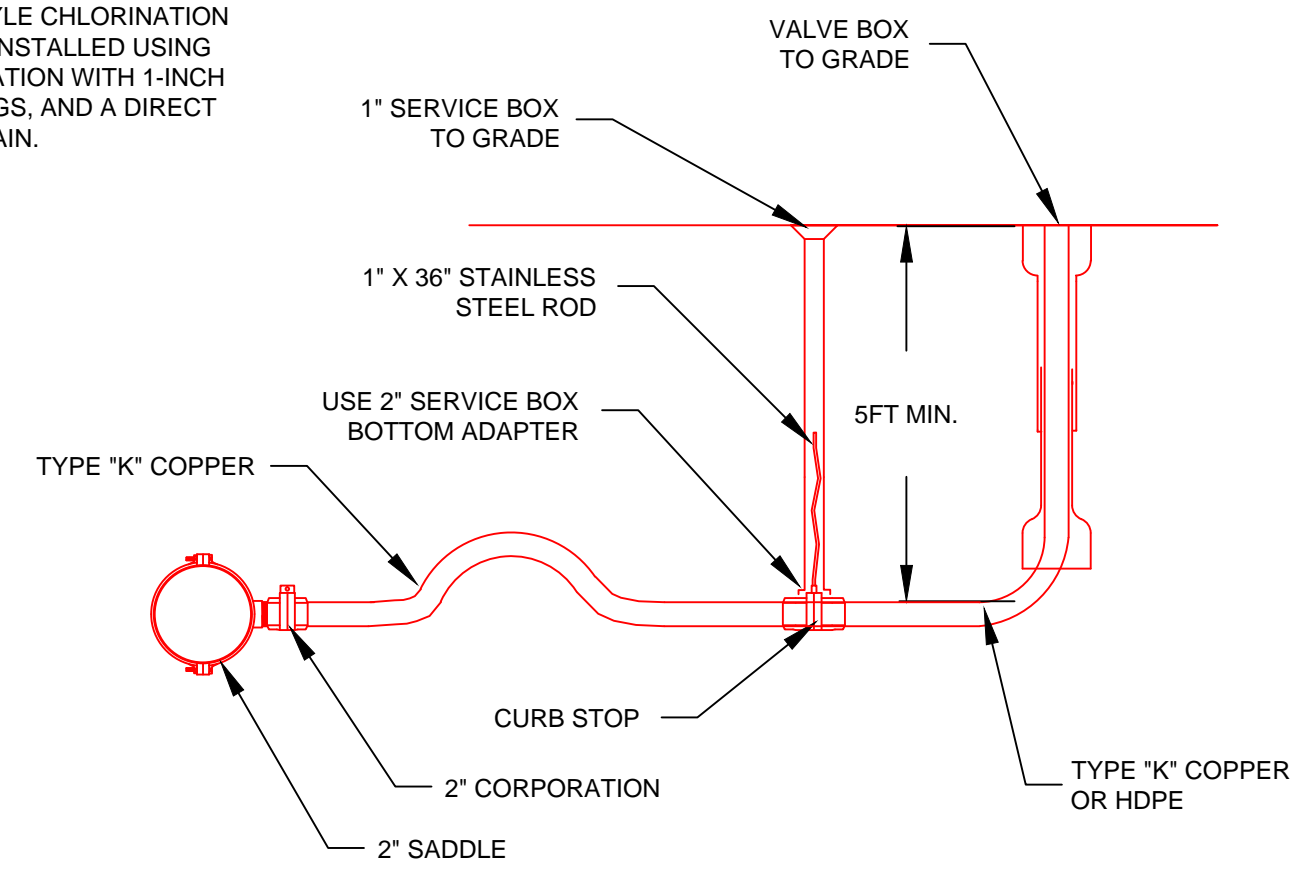


NOTE:
INSTALL ANCHOR RODS AROUND THE VALVE BODY OR THROUGH THE MOUNTING LUGS AND EMBED THE RODS IN A CONCRETE POUR BENEATH THE VALVE.

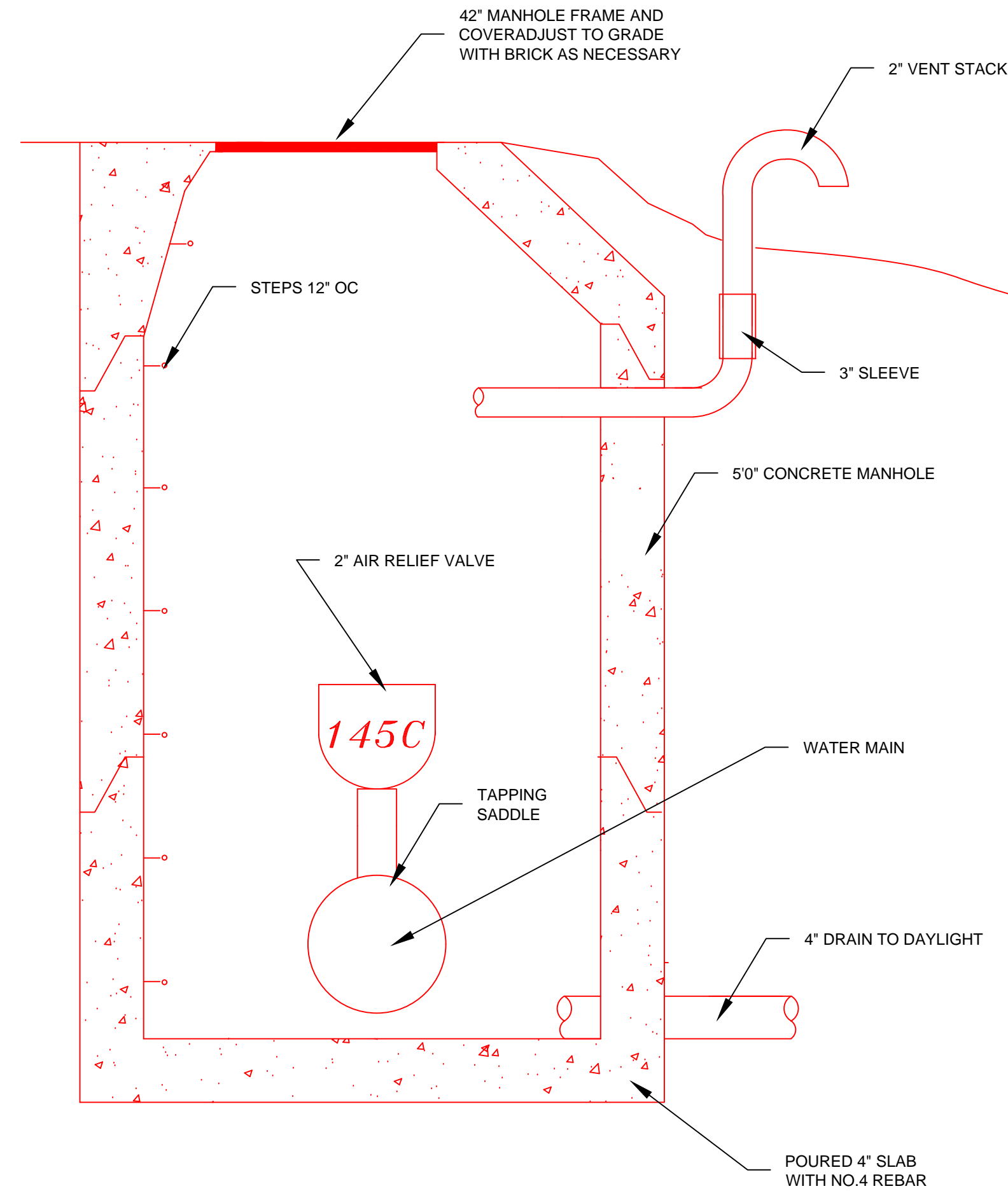


RESTRAINING C-900 VALVES

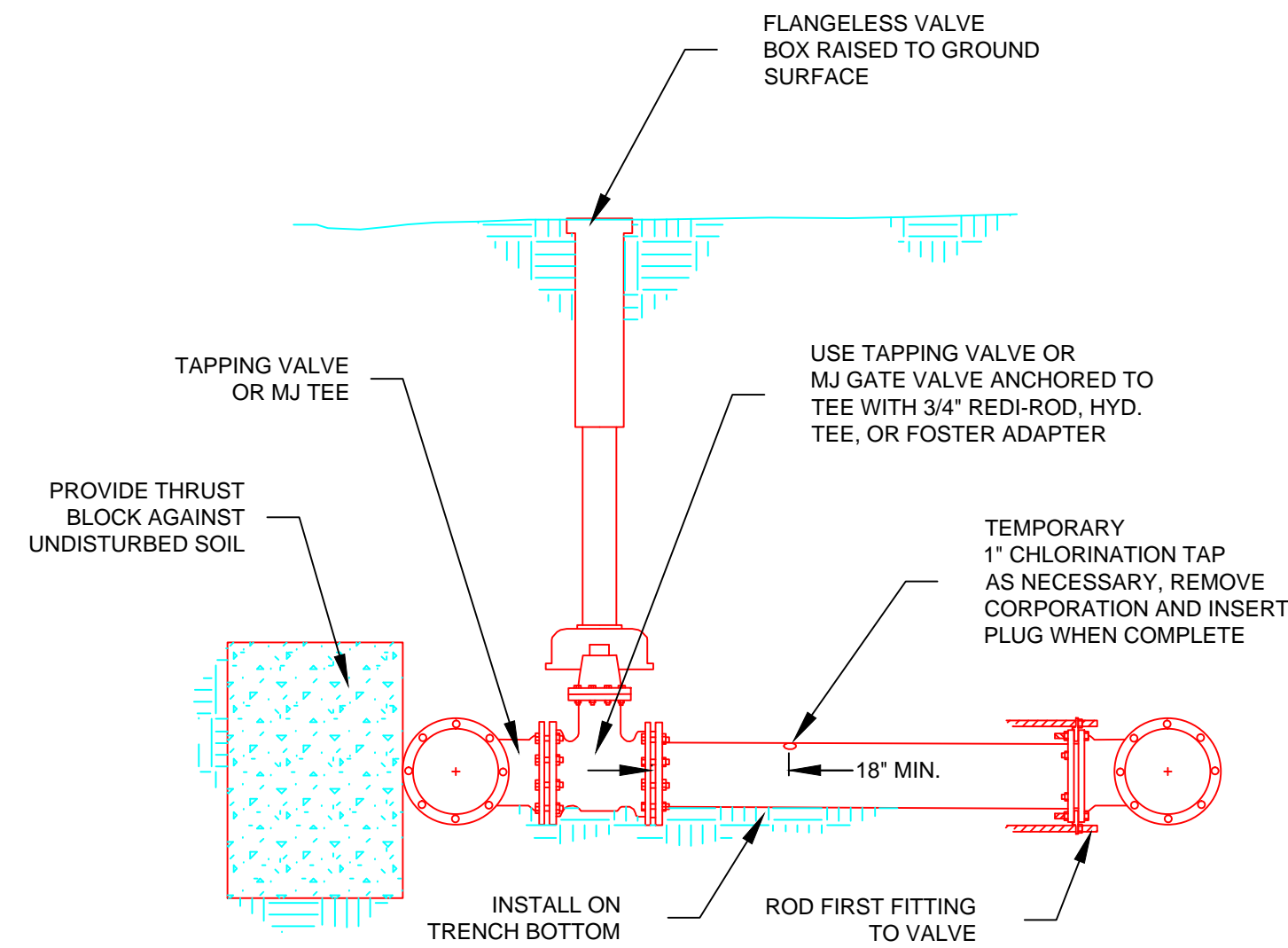
NOTE:
PERMANENT-STYLE CHLORINATION TAPS SHALL BE INSTALLED USING THIS CONFIGURATION WITH 1-INCH PIPE AND FITTINGS, AND A DIRECT TAP INTO THE MAIN.



2-INCH BLOW-OFF ASSEMBLY



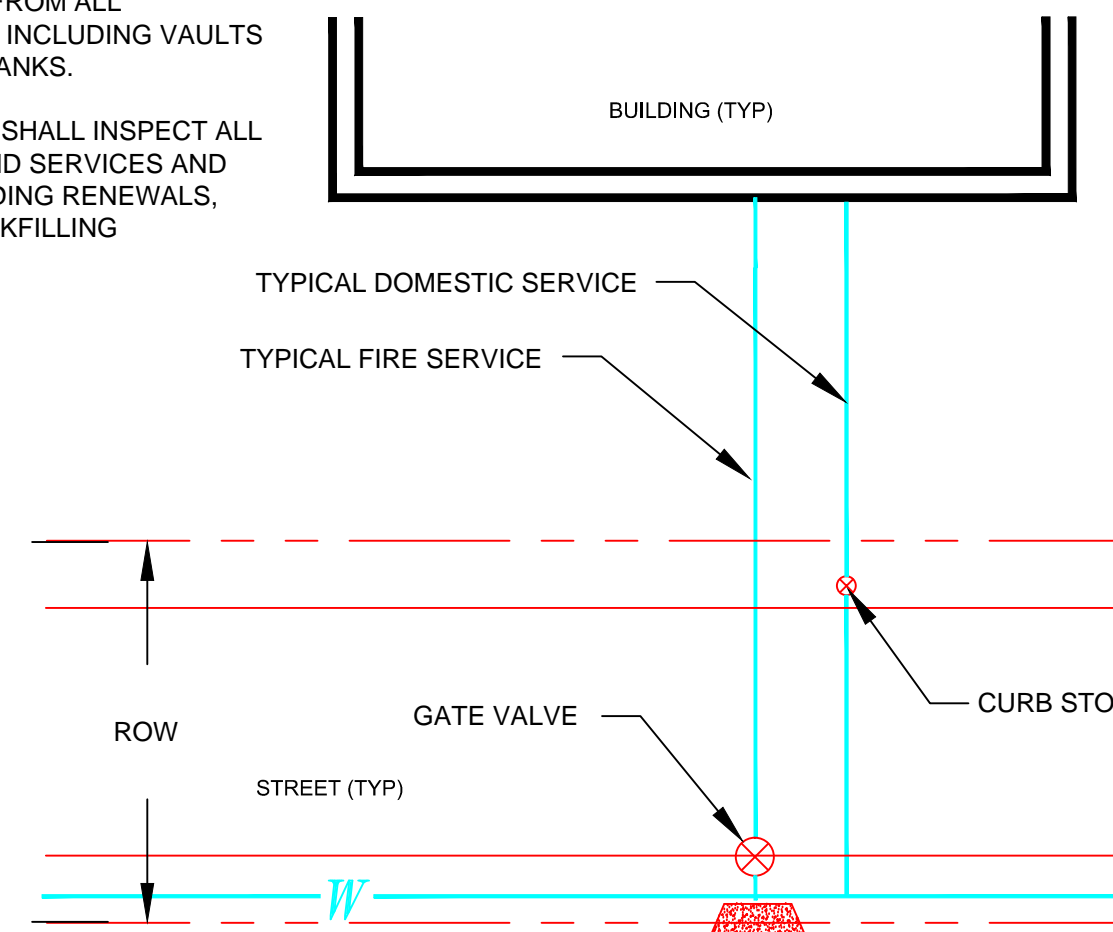
AIR RELIEF VALVE



TYPICAL WATER MAIN CONNECTION

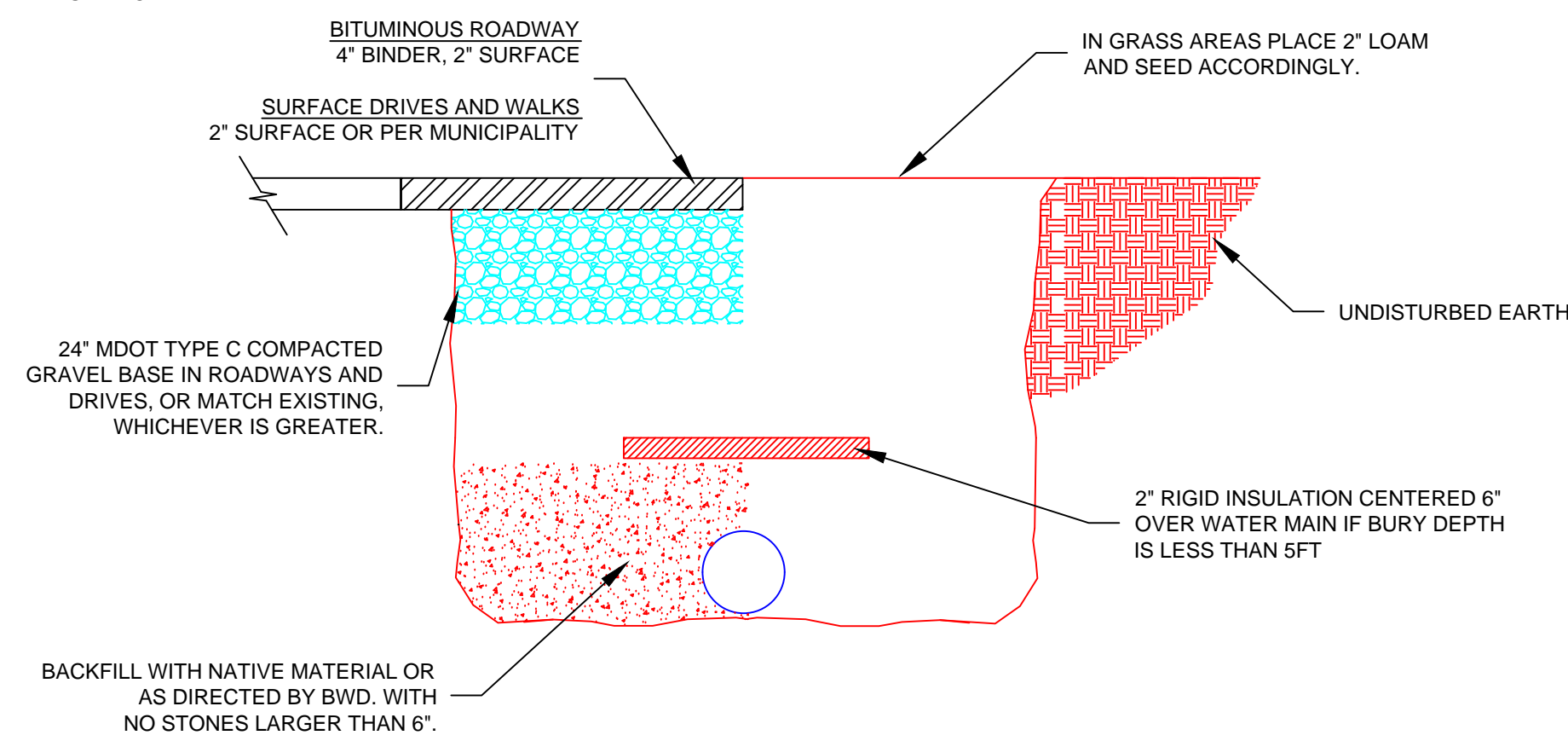
NOTE:
WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 10 FT SEPARATION FROM ALL STRUCTURES, INCLUDING VAULTS AND SEPTIC TANKS.

THE DISTRICT SHALL INSPECT ALL UNDERGROUND SERVICES AND MAINS, INCLUDING RENEWALS, PRIOR TO BACKFILLING

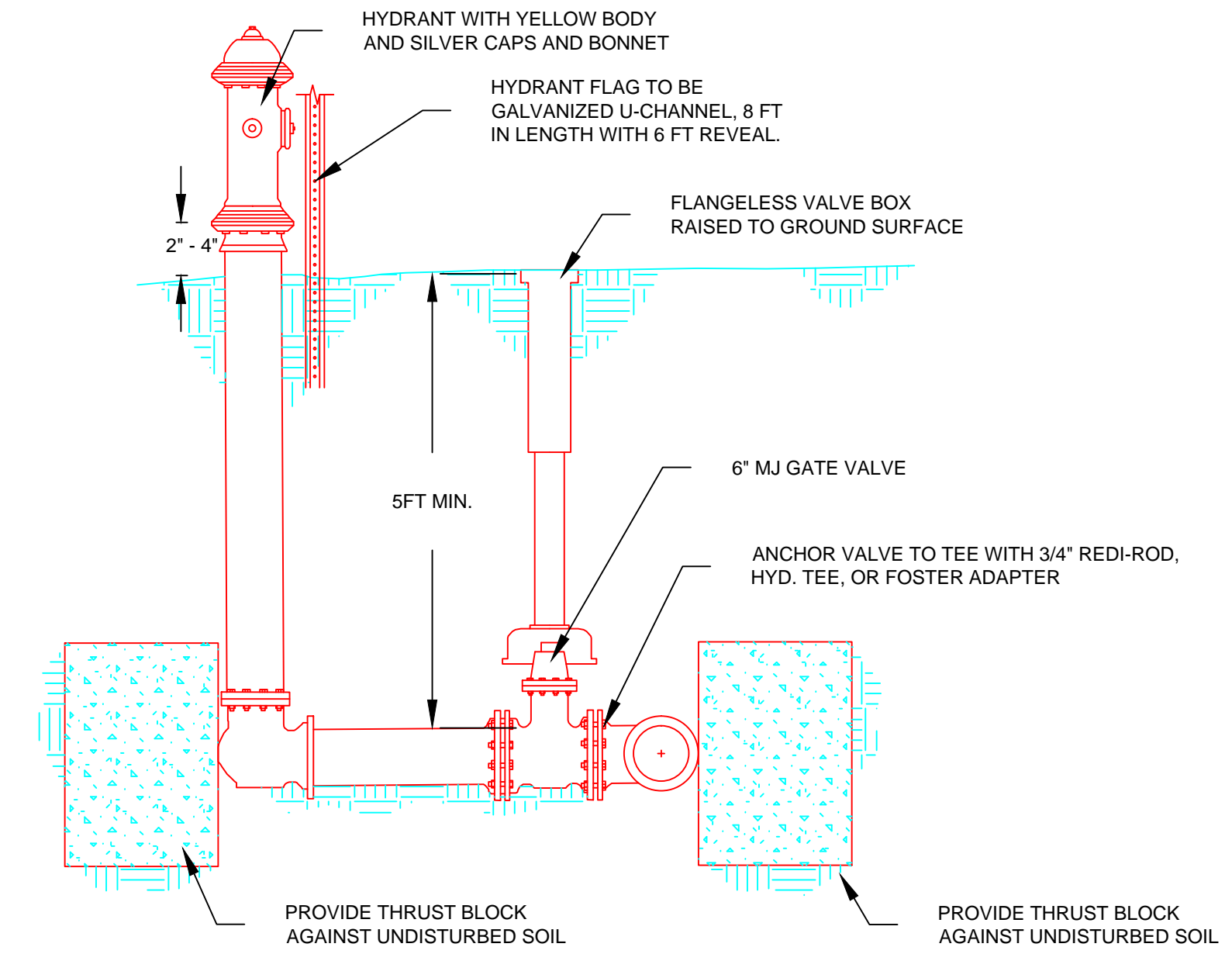


TYPICAL SERVICE CONNECTION LAYOUTS

NOTE:
1) IN ROADWAYS, PLACE INITIAL TEMP. BITUMINOUS PATCH FOR A MAX. OF 4 WEEKS. GRIND EDGE TO 8" OUTSIDE TRENCH WIDTH AND PLACE PERMANENT BITUMINOUS PATCH.
2) NEW PAVEMENT SHALL MATCH THE EXISTING IN AREAS WHERE THE EXISTING PAVEMENT IS AT A THICKNESS OTHER THAN THAT SHOWN.
3) BACKFILL MUST BE PLACED AND COMPACTED IN 12" LIFTS.
4) MARKING TAPE SHALL BE PLACED 2 FT ABOVE ALL MAINS AND SERVICE PIPE.

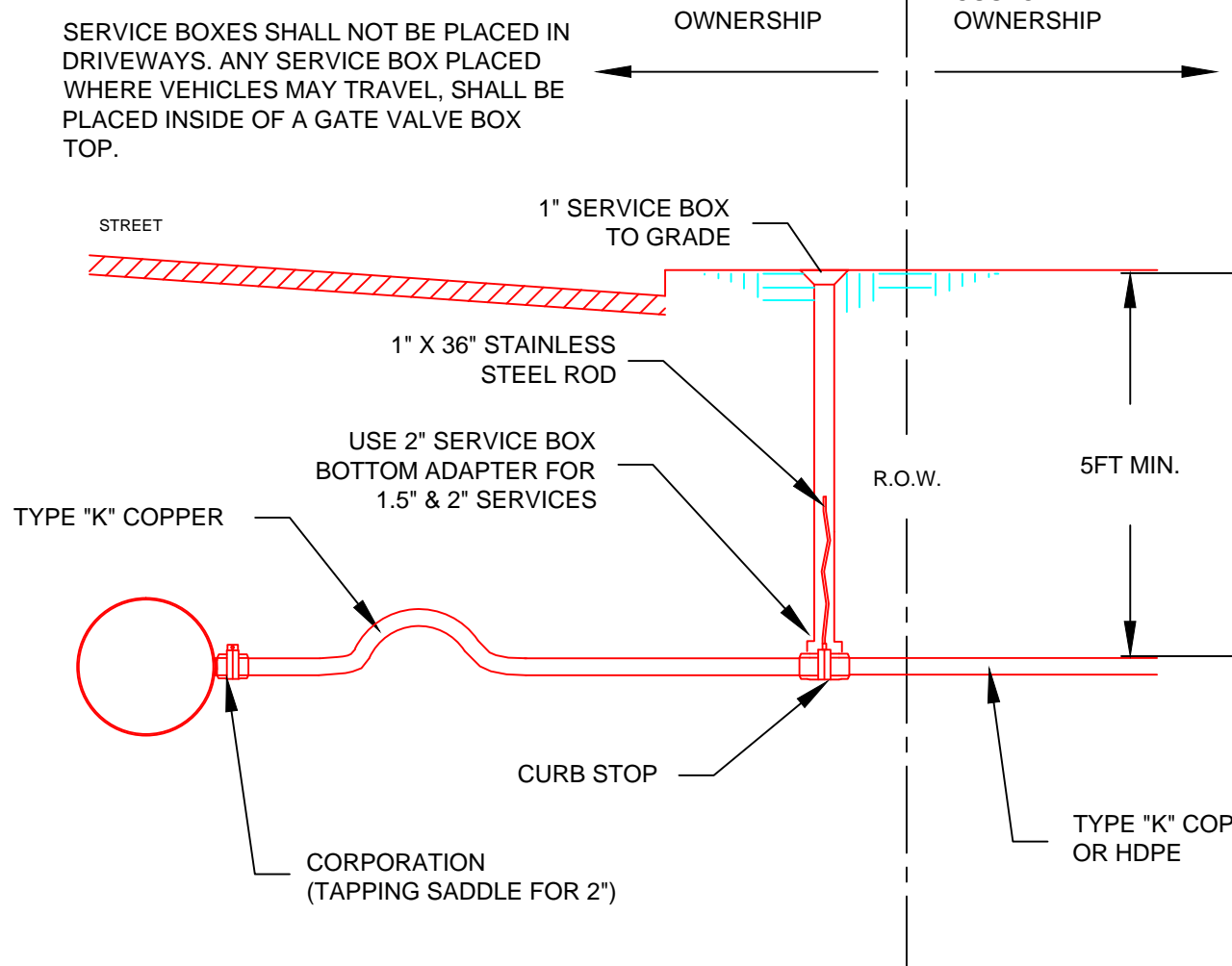


TRENCH DETAIL



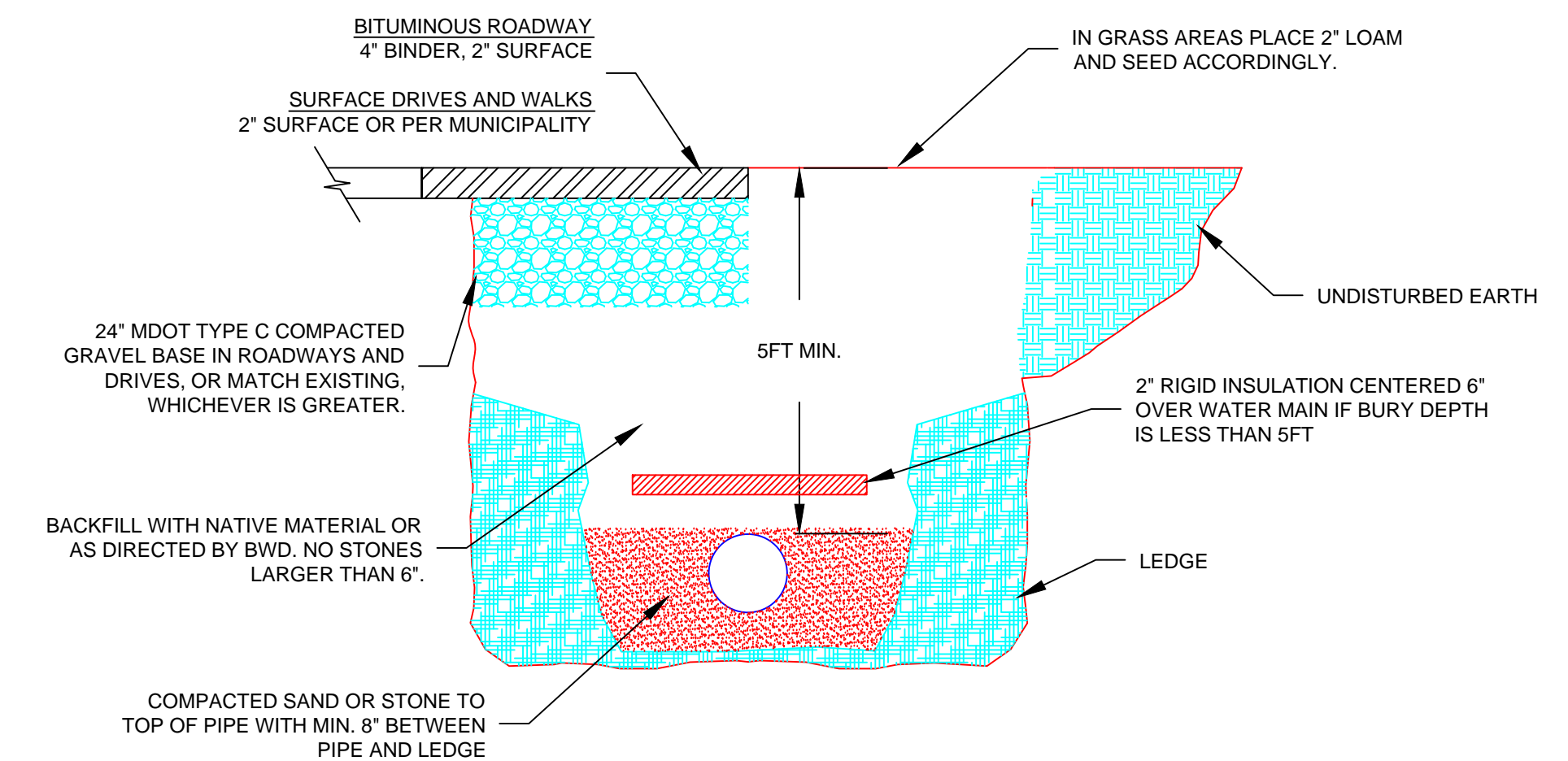
HYDRANT ASSEMBLY

NOTE:
SERVICE BOX AND ROD TO BE INSTALLED IN THE R.O.W. TO FINISH GRADE, A MIN. OF 5 FT FROM ALL STRUCTURES AND 2 FT FROM ALL SHRUBS AND TREES



DOMESTIC SERVICE CONNECTION

NOTE:
1) IN ROADWAYS, PLACE INITIAL TEMP. BITUMINOUS PATCH FOR A MAX. OF 4 WEEKS. GRIND EDGE TO 8" OUTSIDE TRENCH WIDTH AND PLACE PERMANENT BITUMINOUS PATCH.
2) NEW PAVEMENT SHALL MATCH THE EXISTING IN AREAS WHERE THE EXISTING PAVEMENT IS AT A THICKNESS OTHER THAN THAT SHOWN.
3) BACKFILL MUST BE PLACED AND COMPACTED IN 12" LIFTS.
4) MARKING TAPE SHALL BE PLACED 2 FT ABOVE ALL MAINS AND SERVICE PIPE.



TRENCH DETAIL IN LEDGE

Revision	Date	No.	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:

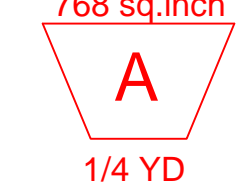
NOTE:
CAST-IN-PLACE THRUSTBLOCKS SHALL BE FORMED AND POURED TO UNDISTURBED SOIL. THE FITTING SHALL BE PROTECTED FROM THE CONCRETE WITH 8-MIL POLY.

THE HEIGHT AND WIDTH OF THE BEARING AREA SHALL EACH BE A MINIMUM OF 18 INCHES.

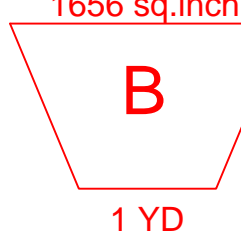
THE THICKNESS OF THE BLOCK SHALL BE ATLEAST 18 INCHES, UNLESS OTHERWISE APPROVED BY THE BWD.

PIPE SIZE (INCH)	6	8	12	16
90 BEND	A	B	B	C
45 BEND	A	A	A	B
22.5 BEND	A	A	A	A
END	A	A	A	B
TEE	A	A	A	B

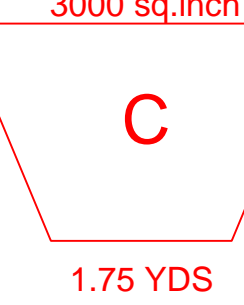
Bearing Area:
768 sq.inch



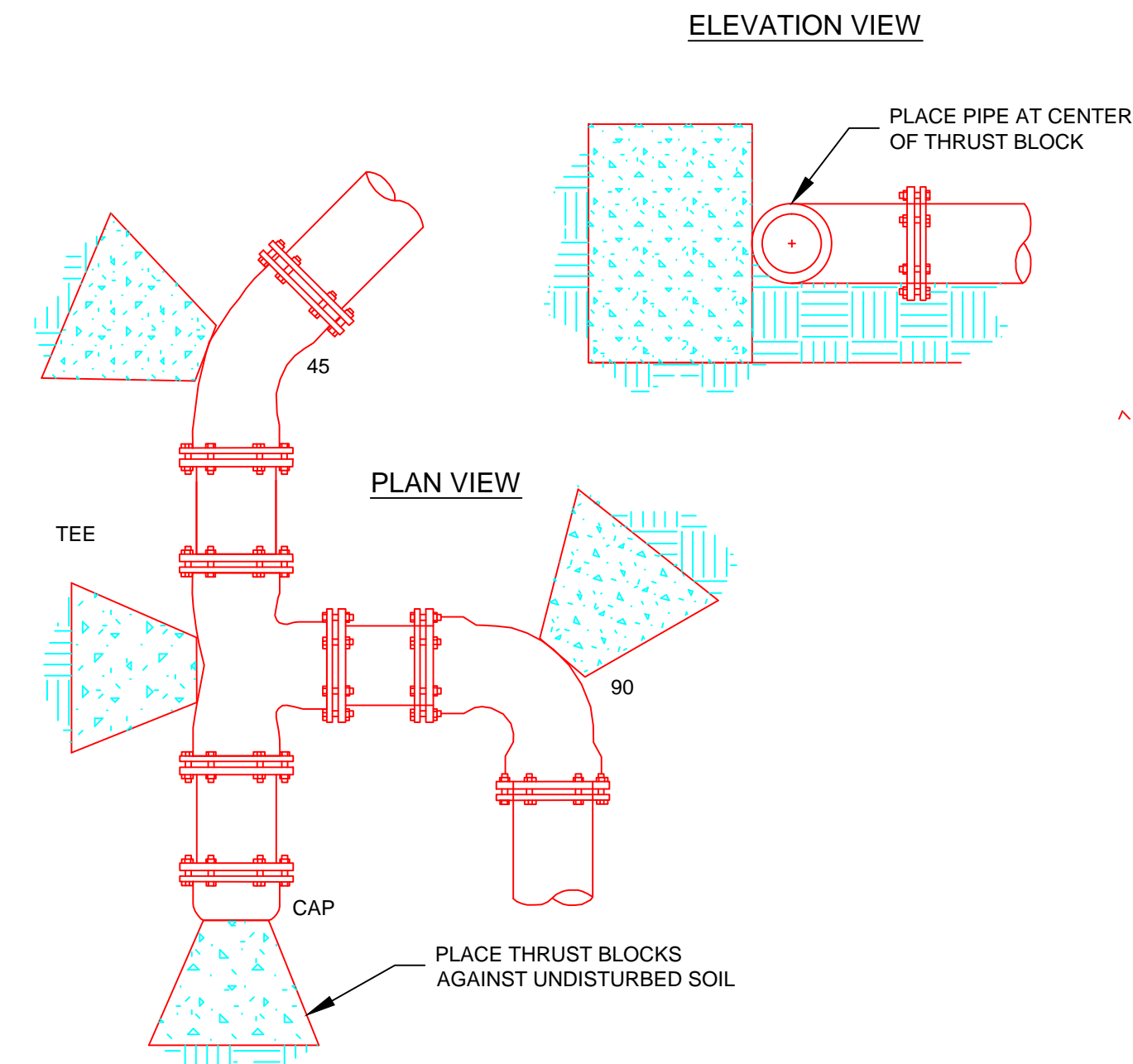
Bearing Area:
1656 sq.inch



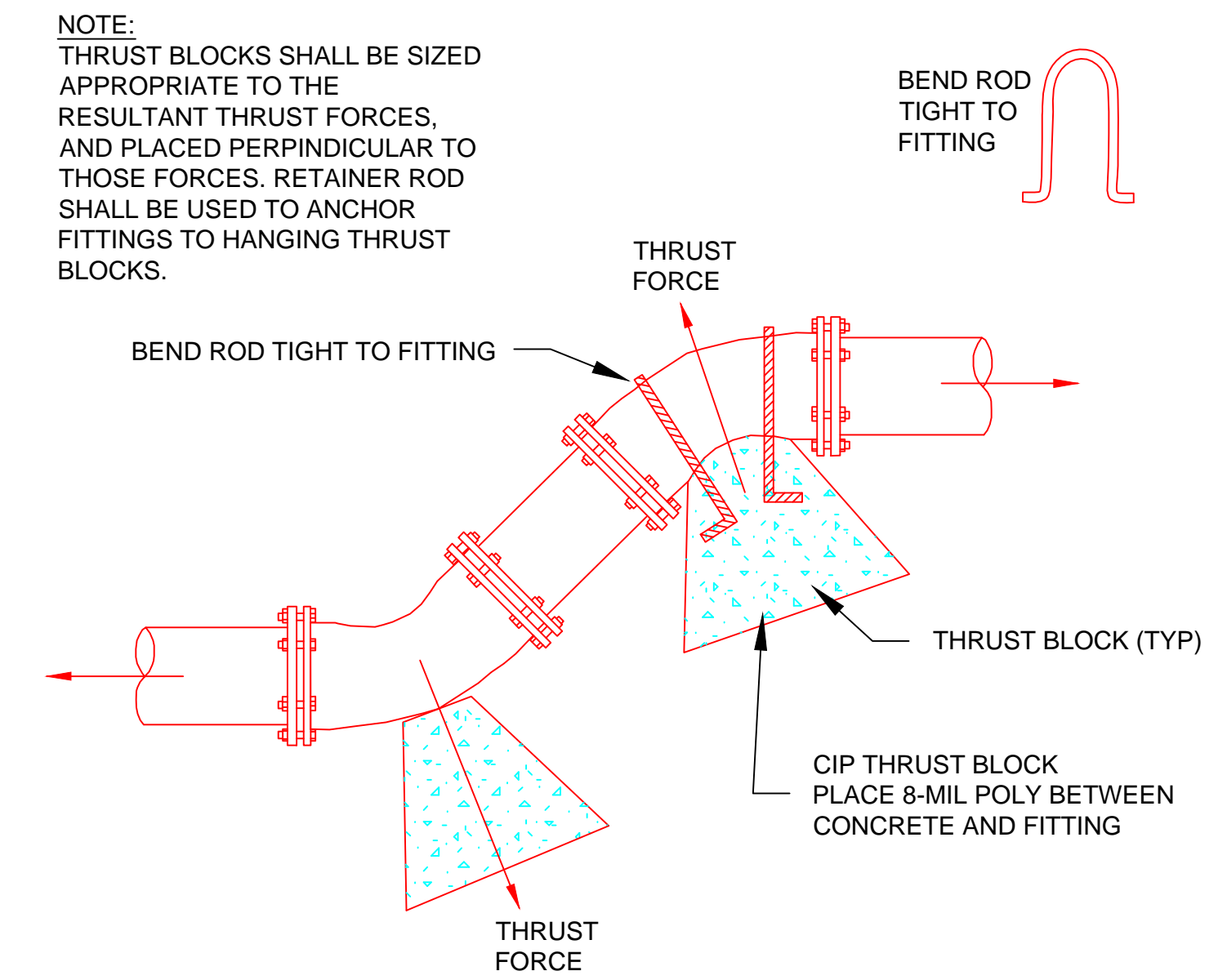
Bearing Area:
3000 sq.inch



THRUST BLOCK SPECIFICATIONS

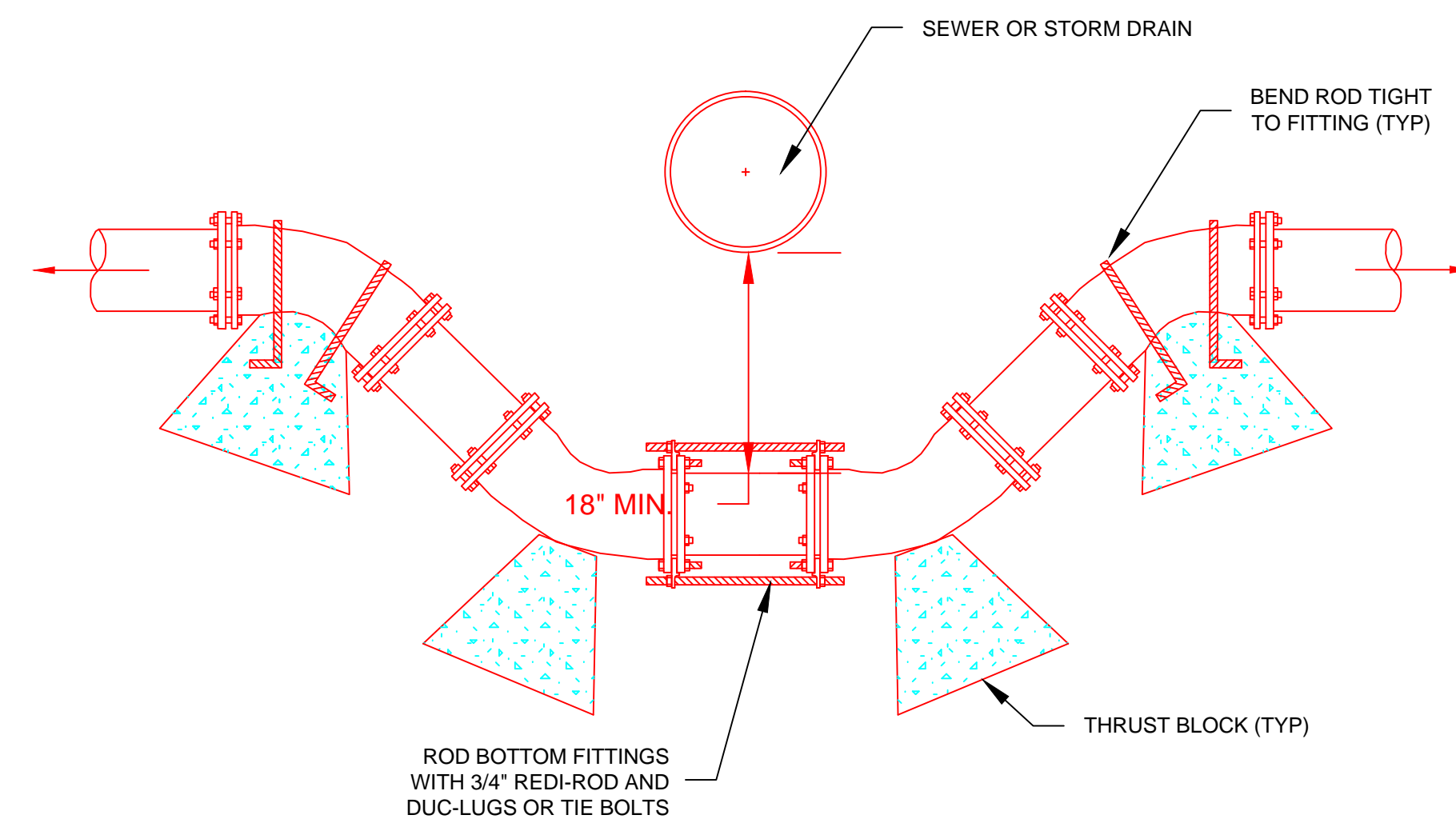
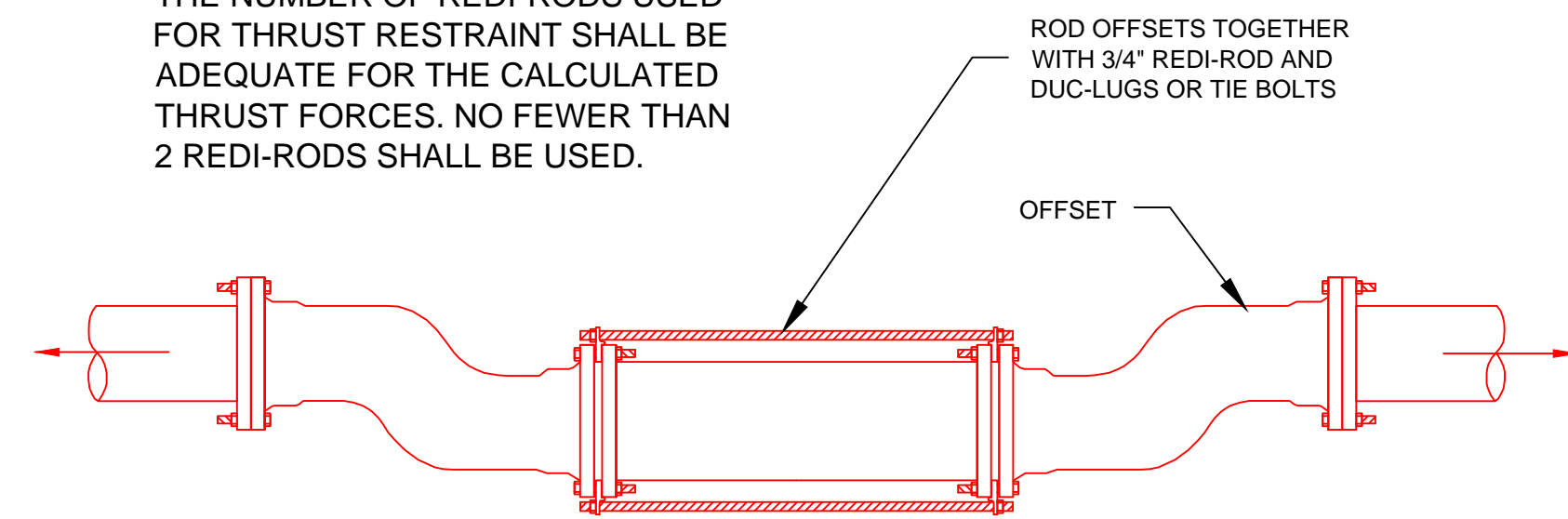


COMMON THRUST BLOCK ARRANGEMENTS

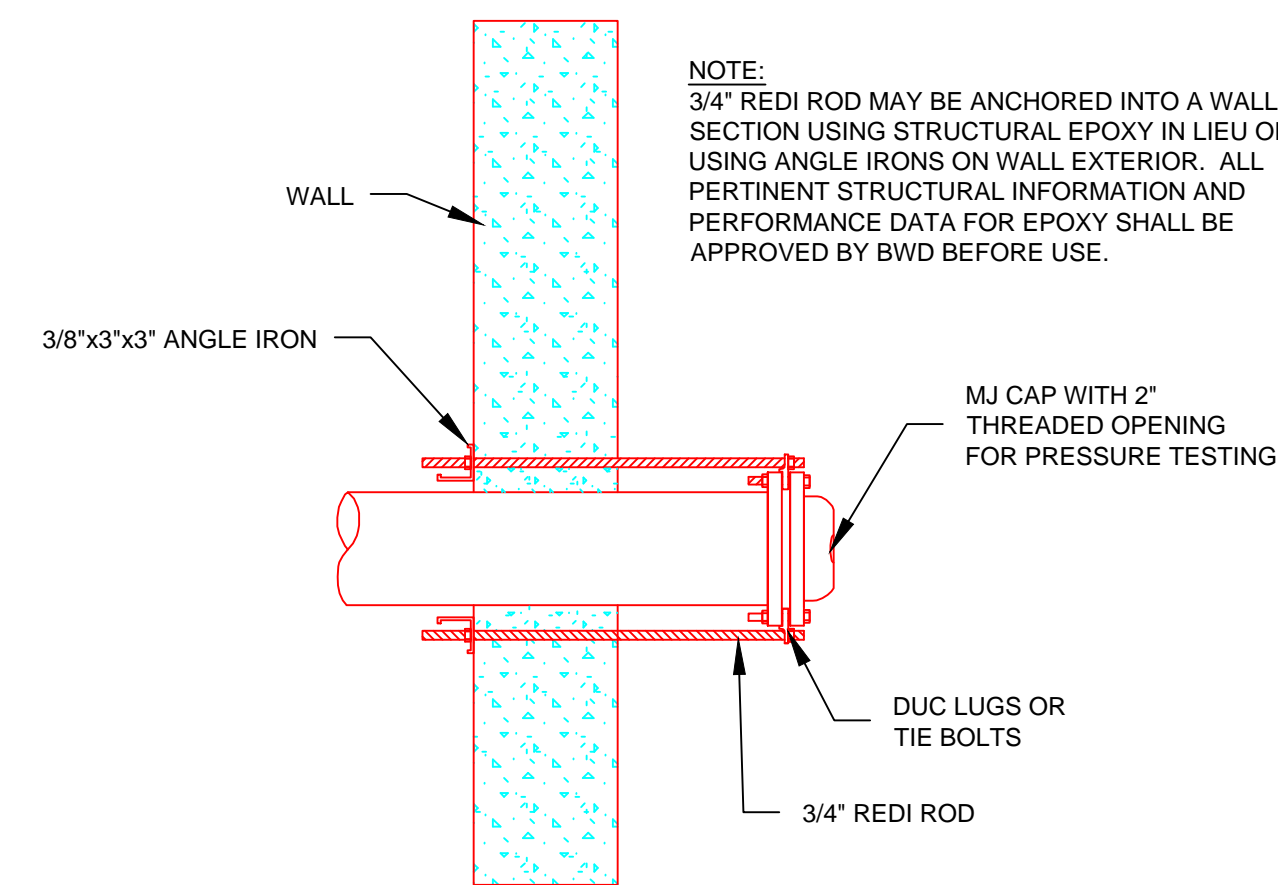


VERTICAL THRUST RESTRAINT

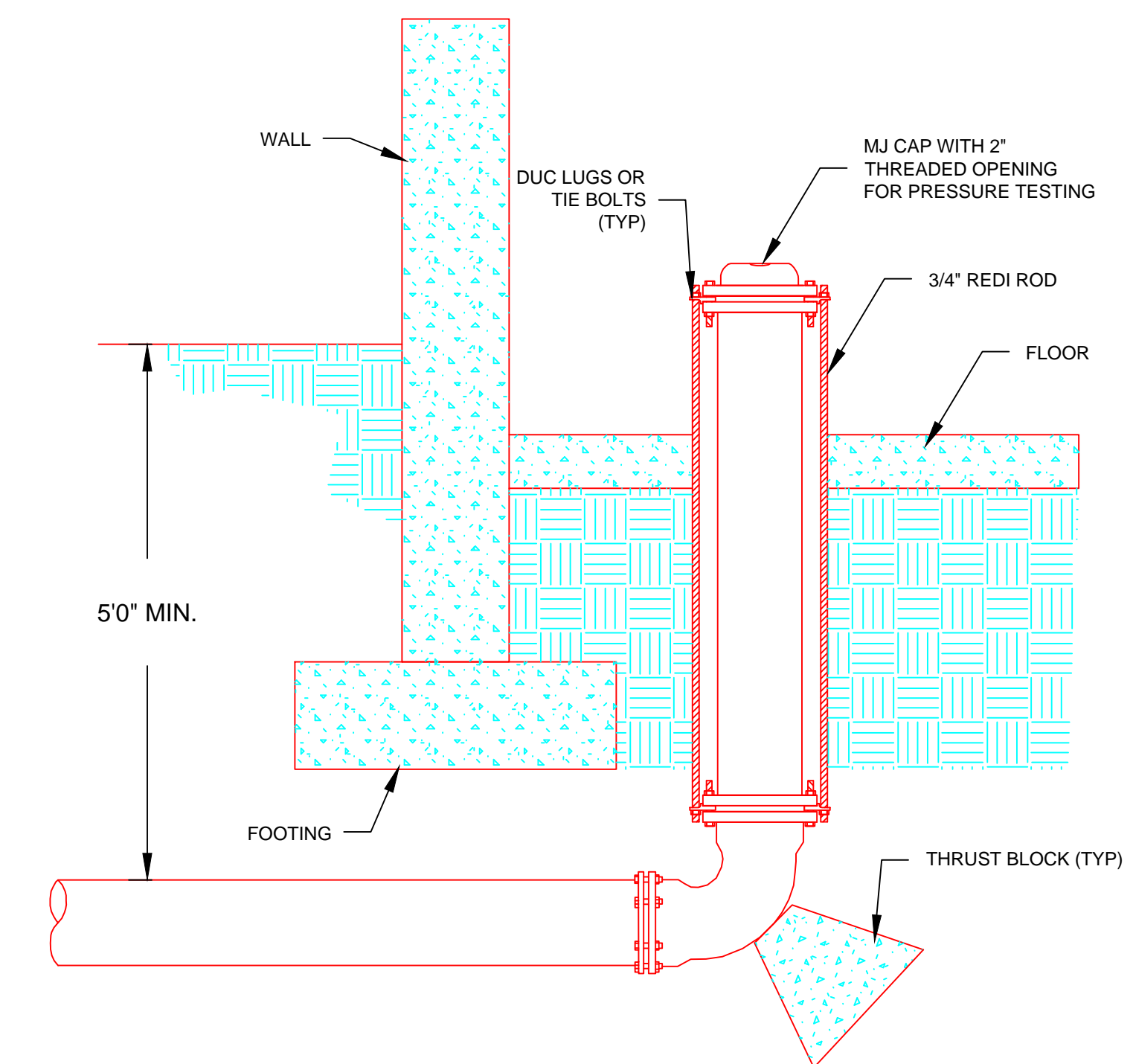
NOTE:
THE NUMBER OF REDI-RODS USED FOR THRUST RESTRAINT SHALL BE ADEQUATE FOR THE CALCULATED THRUST FORCES. NO FEWER THAN 2 REDI-RODS SHALL BE USED.



OFFSETS



WALL PENETRATION



FLOOR PENETRATION

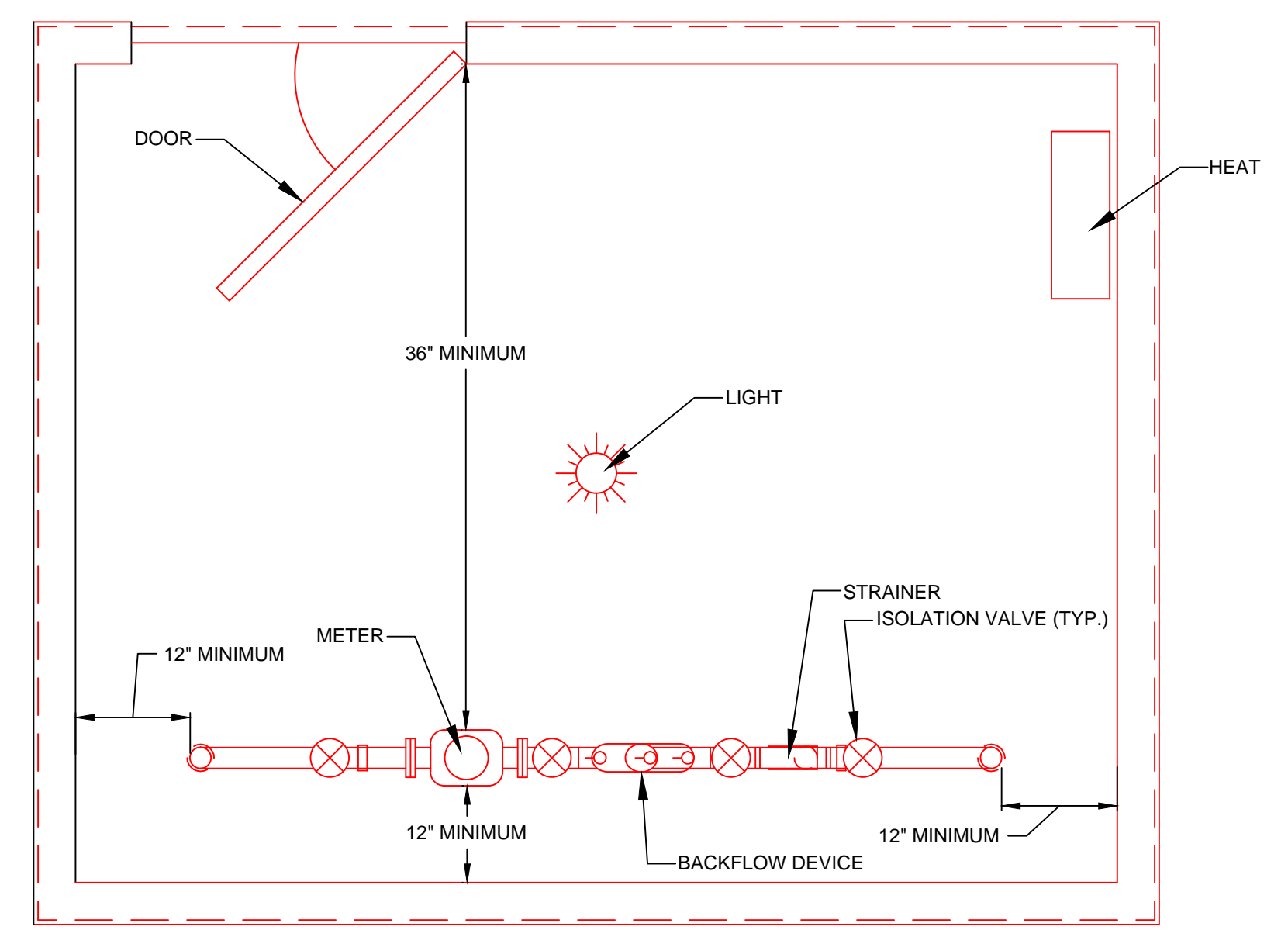
Date
Signed

Revision	Date	No.	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
			VWL	VWL	VWL	

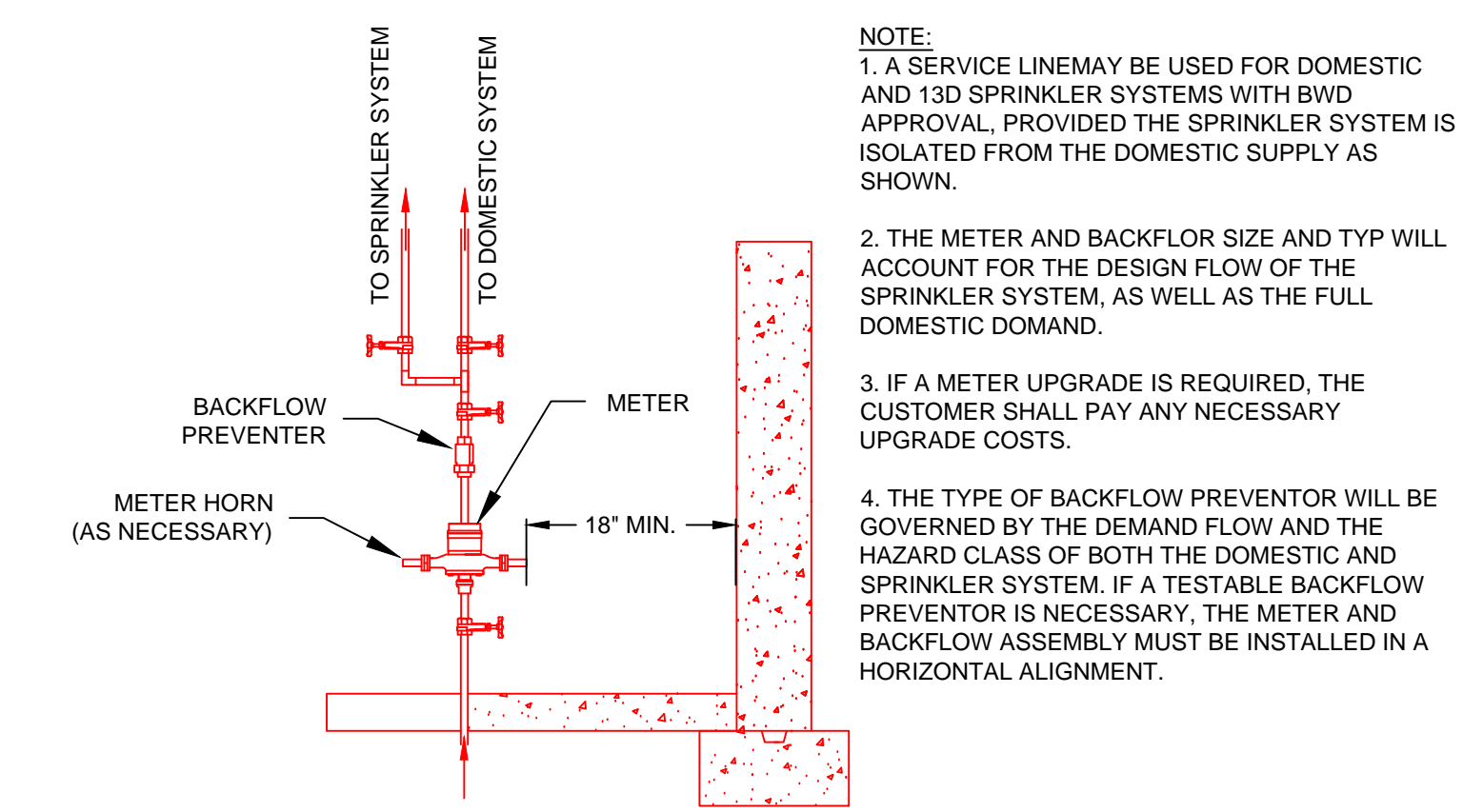
Date: 3/28/2025
SCALE: NOT TO SCALE

BANGOR WATER DISTRICT
STANDARD DETAILS

- PLAN NOTES:**
- BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE CODES.
 - SHALLOW FROST PROTECTED FOUNDATION IS SHOWN. SLAB AND FROST WALL CONSTRUCTION IS ALSO SUITABLE.
 - PROVIDE INTERIOR LIGHTING.
 - PROVIDE LOCKING ENTRANCE DOOR.
 - PROVIDE HEAT SYSTEM TO PREVENT FREEZING.
 - BUILDING MUST BE LOCATED AT THE EDGE OF RIGHT OF WAY AND PRIOR TO ANY CONNECTIONS.



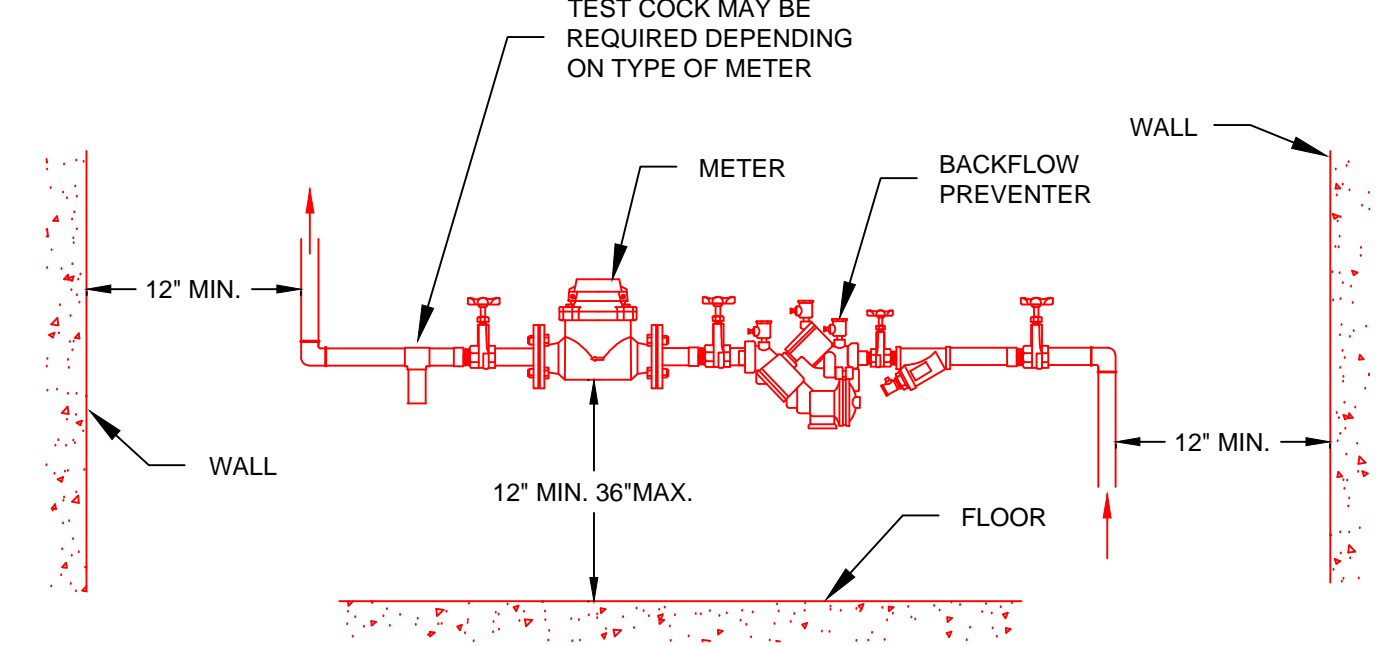
PLAN



13D SPRINKLER SYSTEM COMBINED WITH DOMESTIC

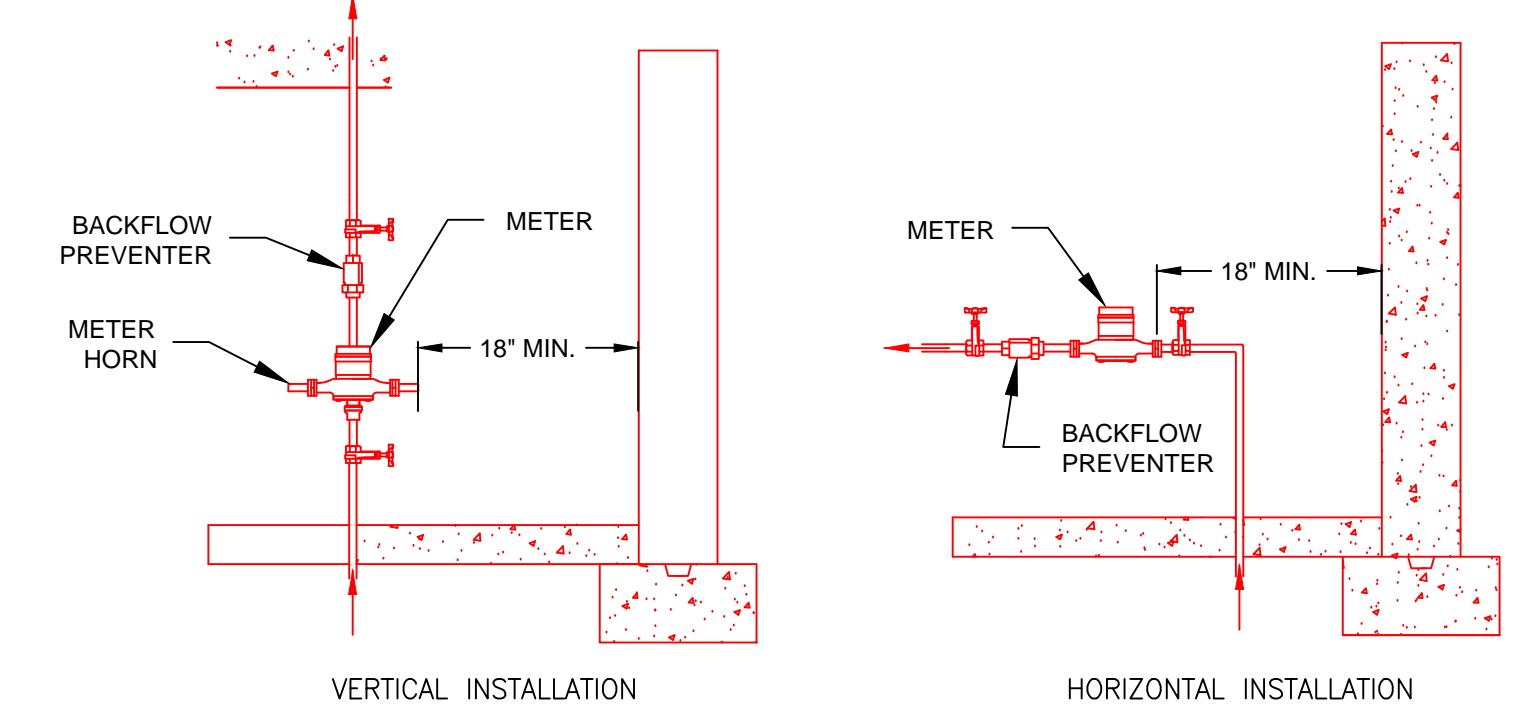
- NOTE:**
- A SERVICE LINEMAY BE USED FOR DOMESTIC AND 13D SPRINKLER SYSTEMS WITH BWD APPROVAL. PROVIDED THE SPRINKLER SYSTEM IS ISOLATED FROM THE DOMESTIC SUPPLY AS SHOWN.
 - THE METER AND BACKFLOR SIZE AND TYP WILL ACCOUNT FOR THE DESIGN FLOW OF THE SPRINKLER SYSTEM, AS WELL AS THE FULL DOMESTIC DOMAND.
 - IF A METER UPGRADE IS REQUIRED, THE CUSTOMER SHALL PAY ANY NECESSARY UPGRADE COSTS.
 - THE TYPE OF BACKFLOW PREVENTOR WILL BE GOVERNED BY THE DEMAND FLOW AND THE HAZARD CLASS OF BOTH THE DOMESTIC AND SPRINKLER SYSTEM. IF A TESTABLE BACKFLOW PREVENTOR IS NECESSARY, THE METER AND BACKFLOW ASSEMBLY MUST BE INSTALLED IN A HORIZONTAL ALIGNMENT.

- NOTE:**
- EASY ACCESS TO METERS AND BACKFLOWS IS REQUIRED AT ALL TIMES.
- ASSEMBLIES MUST BE A MINIMUM OF 12" FROM ANY WALL OR OBSTRUCTION.

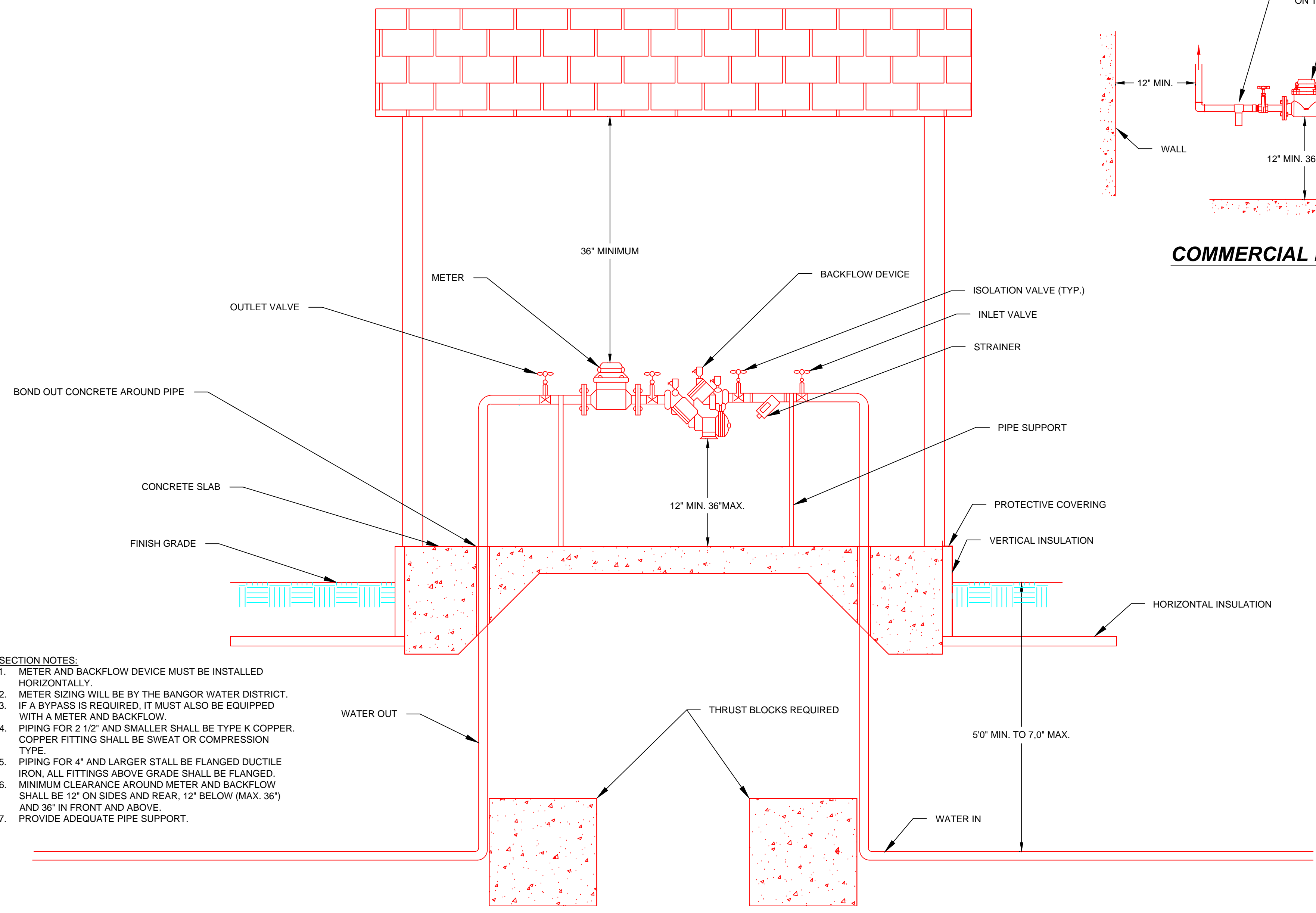


COMMERCIAL METERS AND BACKFLOWS

- NOTE:**
- METER MUST BE IN A CLEAN, DRY, AND ACCESSIBLE LOCATION. DO NOT RENDER METERS INACCESSIBLE BY PERMANENTLY BOXING THEM IN. BOXES AND COVERINGS MUST BE REMOVABLE WITH MINIMAL EFFORT.
 - PIPE CONNECTIONS TO THE OUTPUT OF A WATER METER SHALL BE METALLIC FOR THE FIRST TWO FEET.
 - THE HOMEOWNER IS RESPONSIBLE FOR ALL LABOR, OVERHEAD, MATERIAL, AND EQUIPMENT COSTS ASSOCIATED WITH REPAIRING DAMAGED OR FROZEN METERS.
 - NO BRANCHES OR TAPS ARE PERMITTED OF THE METER OR BACKFLOW PREVENTER.

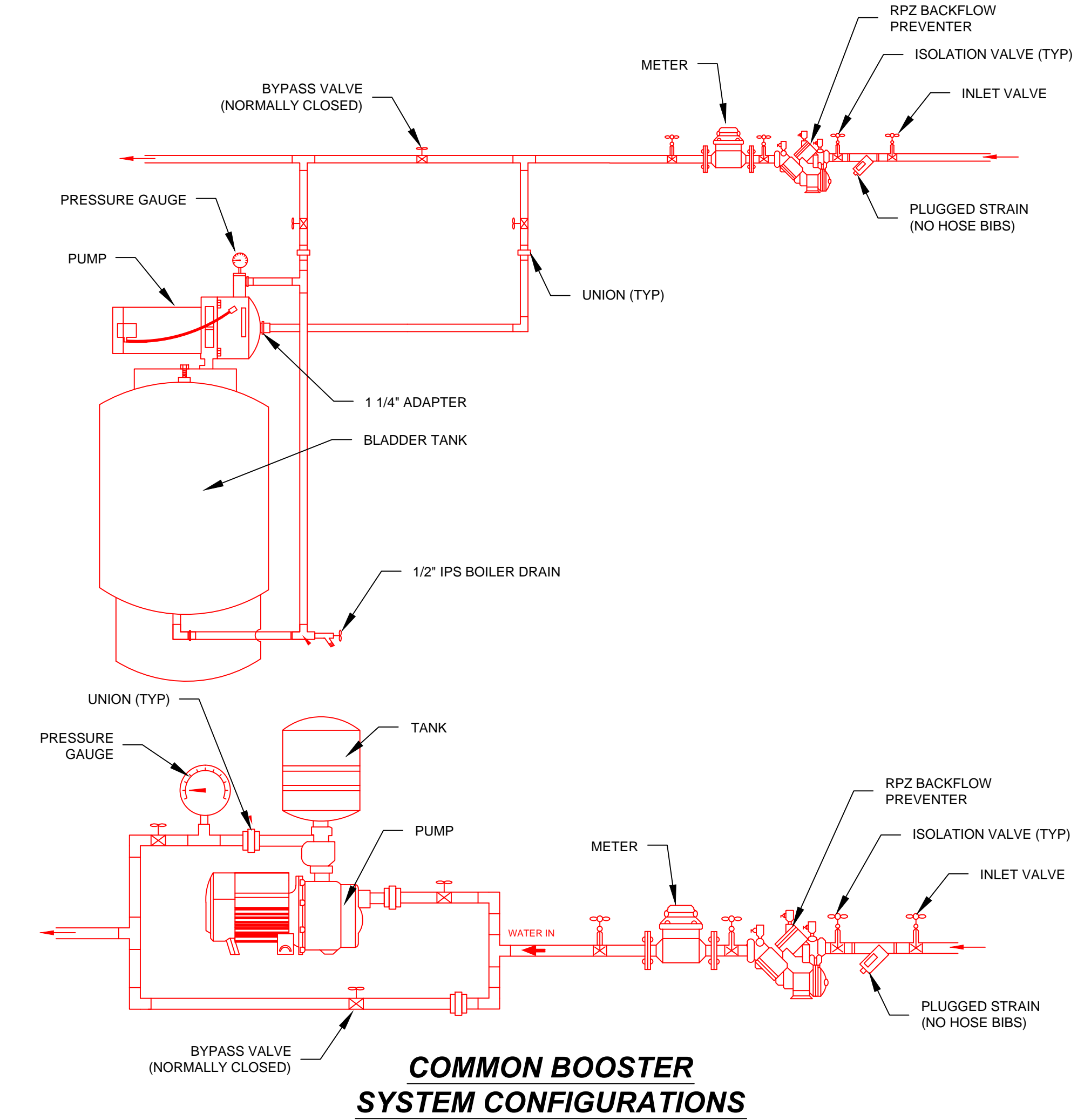


RESIDENTIAL METERS AND BACKFLOWS



SECTION
METER BUILDING

- SECTION NOTES:**
- METER AND BACKFLOW DEVICE MUST BE INSTALLED HORIZONTALLY.
 - METER SIZING WILL BE BY THE BANGOR WATER DISTRICT.
 - IF A BYPASS IS REQUIRED, IT MUST ALSO BE EQUIPPED WITH A METER AND BACKFLOW.
 - PIPING FOR 2 1/2" AND SMALLER SHALL BE TYPE K COPPER. COPPER FITTING SHALL BE SWEAT OR COMPRESSION TYPE.
 - PIPING FOR 4" AND LARGER SHALL BE FLANGED DUCTILE IRON. ALL FITTINGS ABOVE GRADE SHALL BE FLANGED.
 - MINIMUM CLEARANCE AROUND METER AND BACKFLOW SHALL BE 12" ON SIDES AND REAR, 12" BELOW (MAX. 36") AND 36" IN FRONT AND ABOVE.
 - PROVIDE ADEQUATE PIPE SUPPORT.



COMMON BOOSTER SYSTEM CONFIGURATIONS

Revision	Date	No.	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
			VWL	VWL	VWL	

Date: 3/28/2025
SCALE: NOT TO SCALE