

COVER (Ø32" MIN.)

----- ø30" MIN. OPENING -----

MINIMUM DIAMETER

MIN. 24" RIGID COPPER PIPE BETWEEN VALVES

METER SPOOL REQUIRED FOR

ø1.5" OR

SOLDERED IN PLACE

METER PIT AND COVER NOTES

SHALL BE LOCATED ON PRIVATE PROPERTY BETWEEN 10'-0" AND 20'-0" FROM

TOP OF THE SERVICE PIPE. ANY SEAMS BETWEEN CONCRETE SECTIONS SHALL

1. THE METER PIT SHALL BE SUPPLIED AND INSTALLED BY THE CUSTOMER AND

2. THE METER PIT SHALL BE MADE OF PRECAST CONCRETE OF SUFFICIENT SIZE TO PROVIDE 5'-6" MINIMUM GROUND COVER FROM FINISHED GRADE TO THE

BE SEALED WITH MASTIC JOINT. ALL OPENINGS IN THE CONCRETE FOR

SERVICE PIPING SHALL BE SEALED WITH A MODULAR SEAL (LINK-SEAL OR

MINIMUM COVER

SERVICE PIPE

THE PROPERTY LINE.

FOR TRAFFIC FLOW IF APPLICABLE.

METER TO BE CENTERED BEANEATH OPENING

CAST IRON FRAME

- FINISHED GRADE

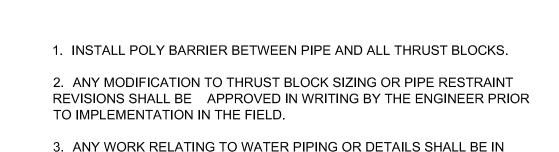
____ MASTIC JOINT BETWEEN CONCRETE

---- MODULAR SEAL TYP.

6" MIN. CLEARANCE

(LINK-SEAL OR SIMILAR)

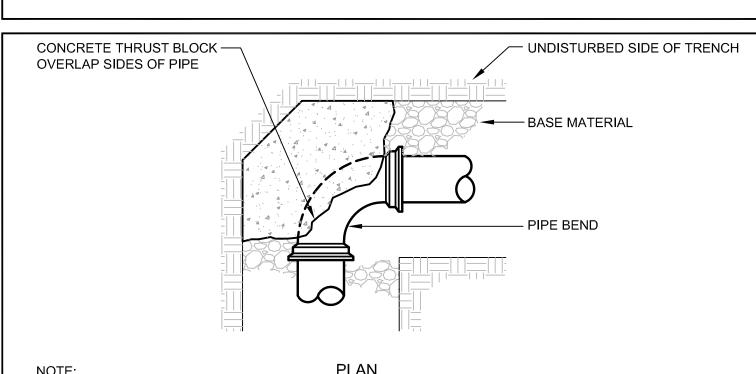
SECTIONS (TYP.)

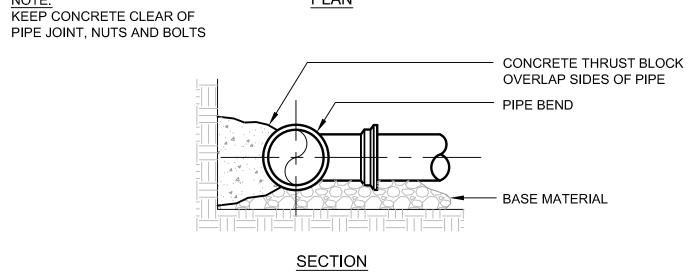


- 3. ANY WORK RELATING TO WATER PIPING OR DETAILS SHALL BE IN ACCORDANCE WITH THE PORTLAND WATER DISTRICT SPECIFICATIONS.
- 4. ALL RESTRAINED JOINTS MUST HAVE GRIPRING.

BEARING SURFACE REQUIRED IN SQUARE FEET

PIPE SIZE	1/32 BEND	1/16 BEND	1/8 BEND	1/4 BEND	TEES/CAPS
6"/8"	5.0	5.0	5.0	6.5	5.0
12"	11.5	11.5	11.5	20.0	22.0





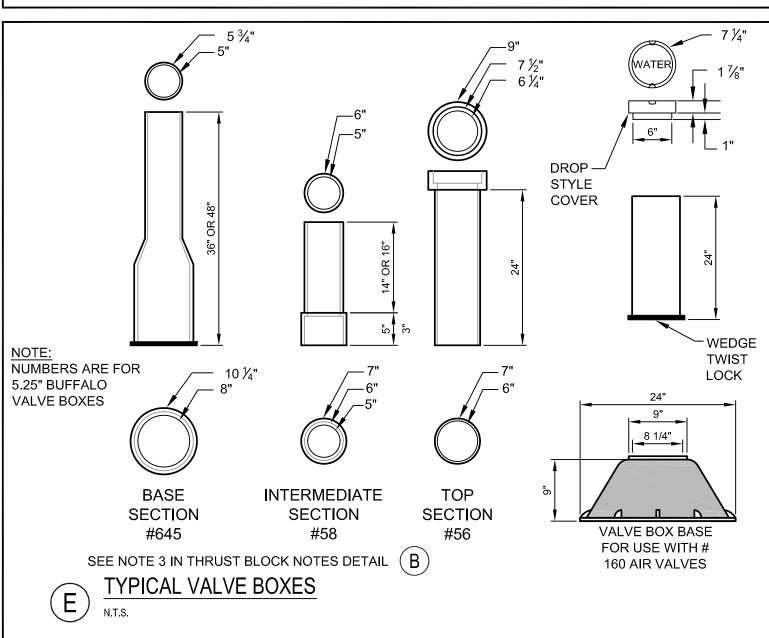
THRUST/RETAINER GLAND SCHEDULE		
⅓ BEND	(90°)	USE POURED-IN-PLACE THRUST BLOCK WITH GRIPRING TM MECHANICAL JOINT RESTRAINT
⅓ BEND	(45°)	THRUST BLOCK w/ GRIPRING TM
⅓ ₁₆ BEND	(22 ½°)	THRUST BLOCK w/ GRIPRING TM
$rac{1}{32}$ BEND	(11 ¼°)	THRUST BLOCK w/ GRIPRING TM

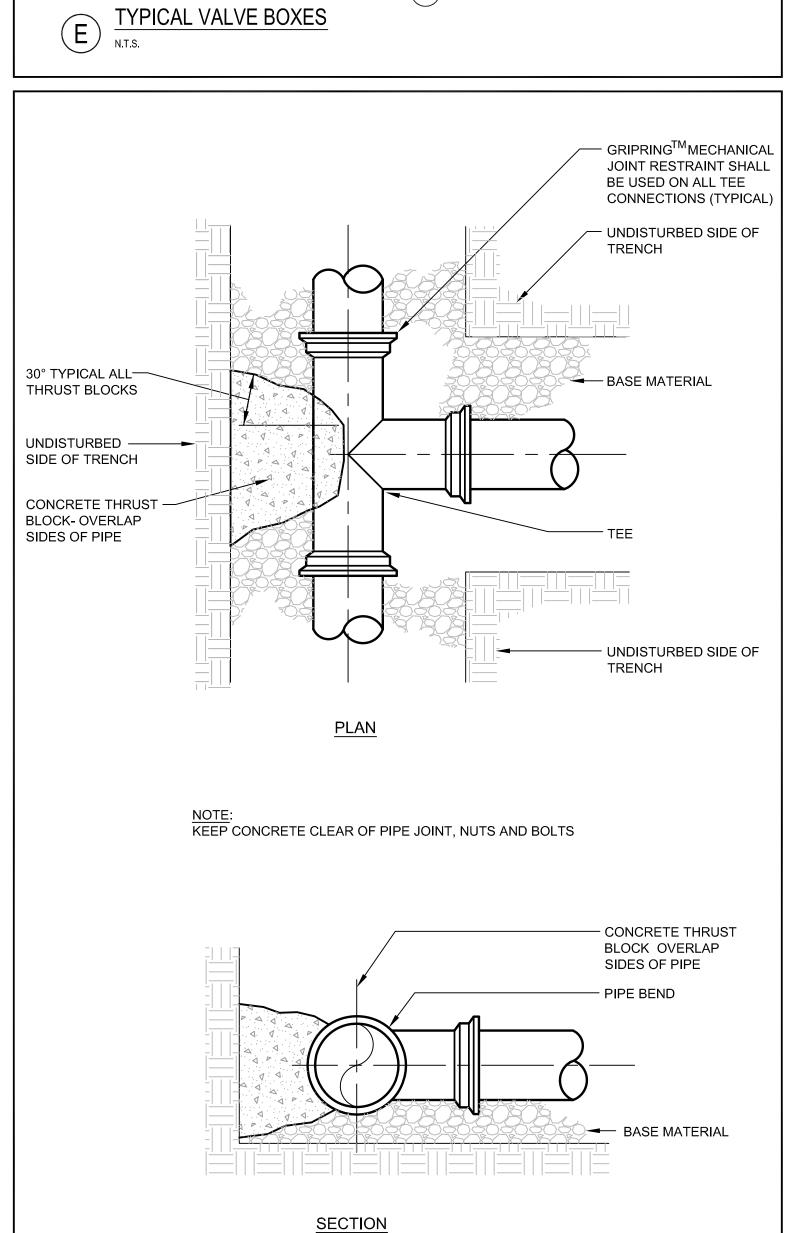
THE ABOVE SCHEDULE IS SUBJECT TO THE APPROVAL OF THE ON-SITE INSPECTOR DUE TO SOILS AND WORKING PRESSURES IN THE AREA.

THE PORTLAND WATER DISTRICT MAY HAVE INSPECTION FEES AND REQUIRE OBSERVATION

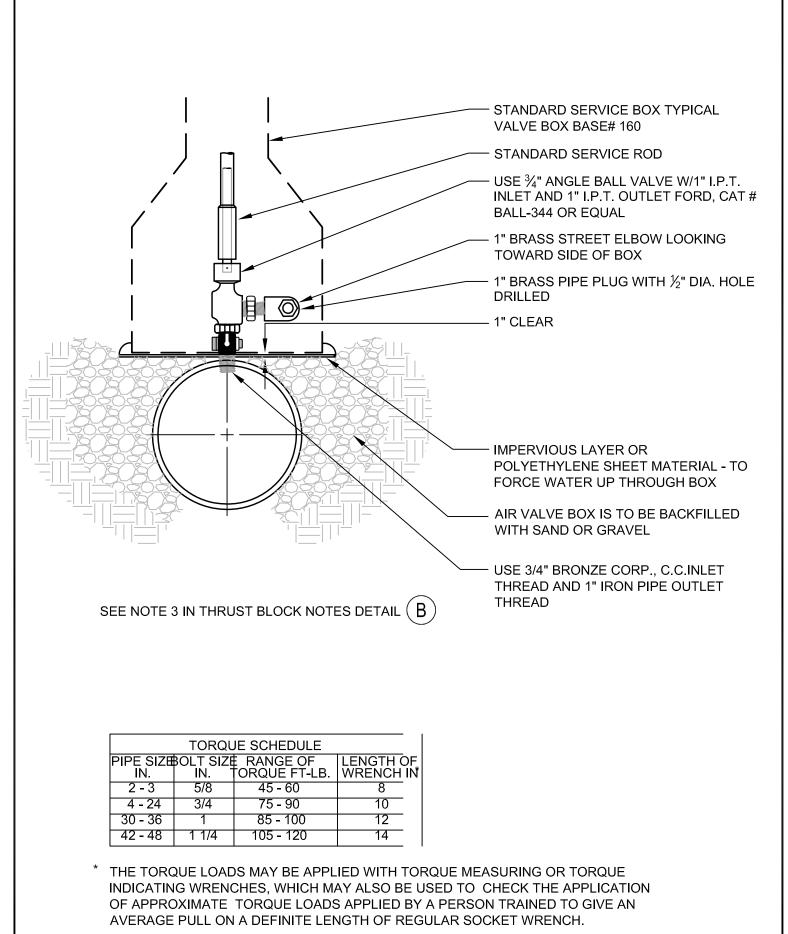
- OF ALL PIPING INSTALLATION BEFORE BURIAL. REFER TO SPECIFICATIONS. 2. FOR WATER MAIN LAYOUT SEE DRAWINGS ____ AND ____
- 3. FOR WATER MAIN PROFILE SEE CONSTRUCTION DRAWINGS ___
- 4. FOR WATER MAIN TRENCH SEE DETAILS ON THIS SHEET
- 5. REFER TO PORTLAND WATER DISTRICT SPECIFICATIONS FOR TESTING AND CHLORINATION
- 6. ALL HYDRANTS AND VALVES TO BE EPOXY COATED, NUTS AND BOLTS TO BE STAINLESS
- 7. SERVICE RODS FOR DOMESTIC SERVICE OR AIR VALVES TO BE STAINLESS STEEL.

TYPICAL THRUST BLOCK PLACEMENT BENDS

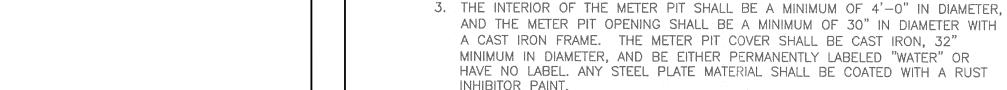




F TYPICAL THRUST BLOCK PLACEMENT ON TEES



TYPICAL AIR VALVE SECTION (1")



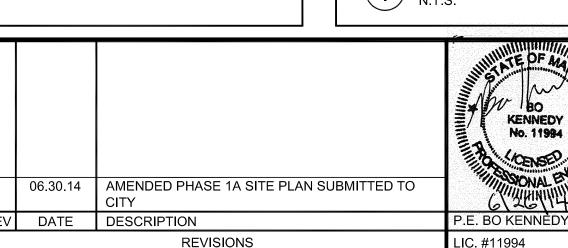
4. WALL-MOUNTED LADDER RUNGS SHOULD NOT BE INSTALLED WITHIN METER PIT. 5. ALL PIPING INSIDE AND EXTENDING THROUGH THE METER PIT SHALL BE MADE OF COPPER, WITH A MINIMUM OF 6" CLEARANCE FROM THE METER PIT FLOOR.

BLOCKING SHALL BE INSTALLED AS REQUIRED TO SUPPORT THE PIPE. 6. CUSTOMER SHALL ENSURE THE METER PIT AND COVER ARE PROPERLY RATED

METER NOTES

- 7. ONLY PORTLAND WATER DISTRICT PERSONNEL ARE AUTHORIZED TO INSTALL WATER METERS. PORTLAND WATER DISTRICT PERSONNEL WILL BE ADDITIONALLY AUTHORIZED TO OPERATE METER VALVES AS NEEDED FOR INSTALLATION AND MAINTENANCE.
- 8. PORTLAND WATER DISTRICT WILL SUPPLY THE WATER METER AND NECESSARY FITTINGS FOR INSTALLATION. IF REQUIRED, A FLANGED METER SPOOL WILL BE AVAILABLE FOR CUSTOMER PICKUP AT DOUGLASS STREET CUSTOMER SERVICE AND MUST BE INSTALLED BY CUSTOMER PRIOR TO METER SET. ALL OTHER MATERIALS, INCLUDING VALVES, SHALL BE SUPPLIED AND INSTALLED BY THE
- 9. CUSTOMER WILL INSTALL TWO (2) BALL VALVES 24" APART FOR METER INSTALLATION, ALLOWING FOR THE WATER METER TO BE CENTERED UNDER THE
- METER PIT OPENING. BALL VALVES SHALL BE SOLDERED IN PLACE. 10. FOR A SERVICE PIPE WITH A DIAMETER OF 1" OR LESS, CUSTOMER WILL
- INSTALL RIGID COPPER PIPE (24" MINIMUM) BETWEEN THE BALL VALVES. 11. FOR PIPING WITH A DIAMETER OF 1-1/2" OR LARGER, THE CUSTOMER WILL OBTAIN A FLANGED METER SPOOL PIECE FROM THE PORTLAND WATER DISTRICT.
- THE CUSTOMER IS RESPONSIBLE FOR ENSURING THAT THE SPOOL PIECE IS INSTALLED PRIOR TO METER INSTALLATION.
- 12. THE METER PIT MAY HOUSE UP TO TWO 5/8", 3/4" OR 1" METERS. INSTALLATION OF MULTIPLE METERS IN A METER PIT MUST RECEIVE PRIOR APPROVAL FROM THE PORTLAND WATER DISTRICT.

WATER METER PIT DETAIL $\overline{\mathsf{N.T.S.}}$



1	PROJECT					
res	BRICK NORTH BUILDING AT					
1	THE FOREFRONT AT THOMPSON'S POINT					
栏	OLEET TITLE					

FAY, SPOFFORD & THORNDIKE ENGINEERS · PLANNERS · SCIENTISTS 778 MAIN ST, SUITE 8, SOUTH PORTLAND, ME 04106 WATER AND GAS SERVICE DETAILS DESIGNED: BEK SCALE: N.T.S. CHECKED: SRB JOB NO. 2982.05 FILE NAME: 2982.05-BN-DET FOREFRONT PARTNERS |, LP

C-8.7

PRELIMINARY - NOT FOR CONSTRUCTION

R;\2982,05 Amended Site Plan Part II\Cadd\Permit Set\dwg\BRICK NORTH - Amended\2982,05-BN DET,dwg davis d 6/30/2014 2;24 PM