

BRICK MASONRY CHANNEL, CARRY

-SLOPED WASH

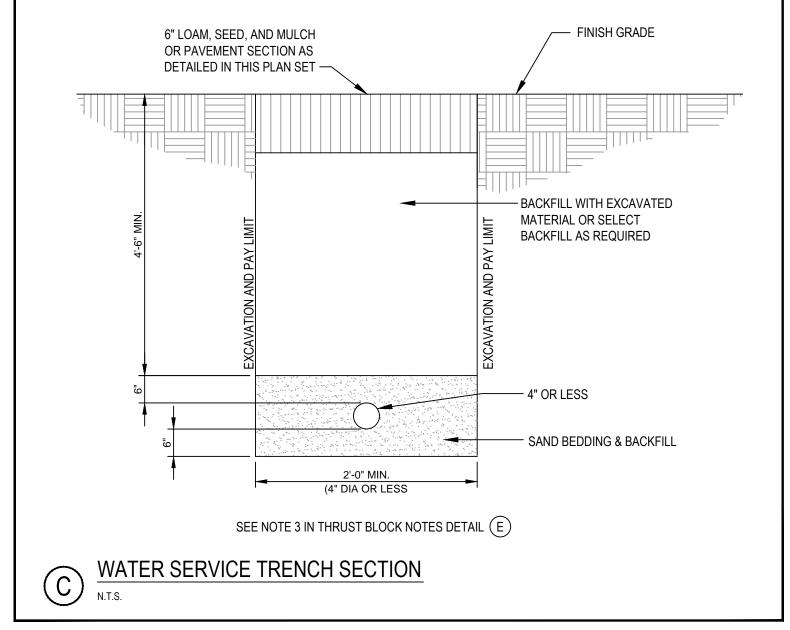
-CONCRETE OR MASONRY FILL

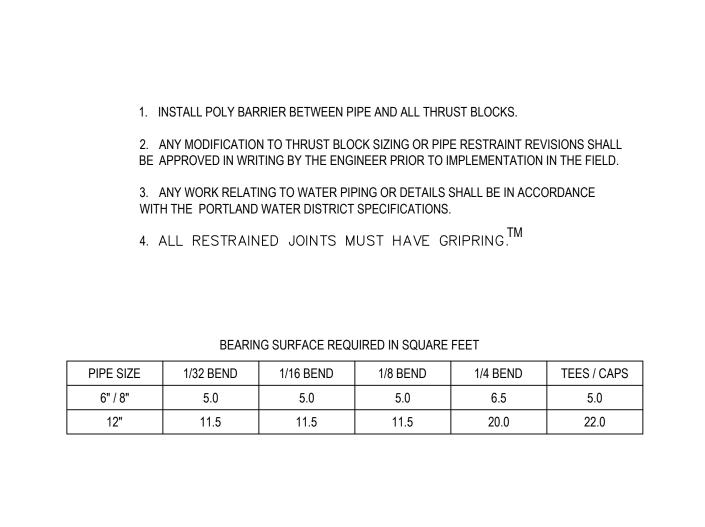
STONE BASE

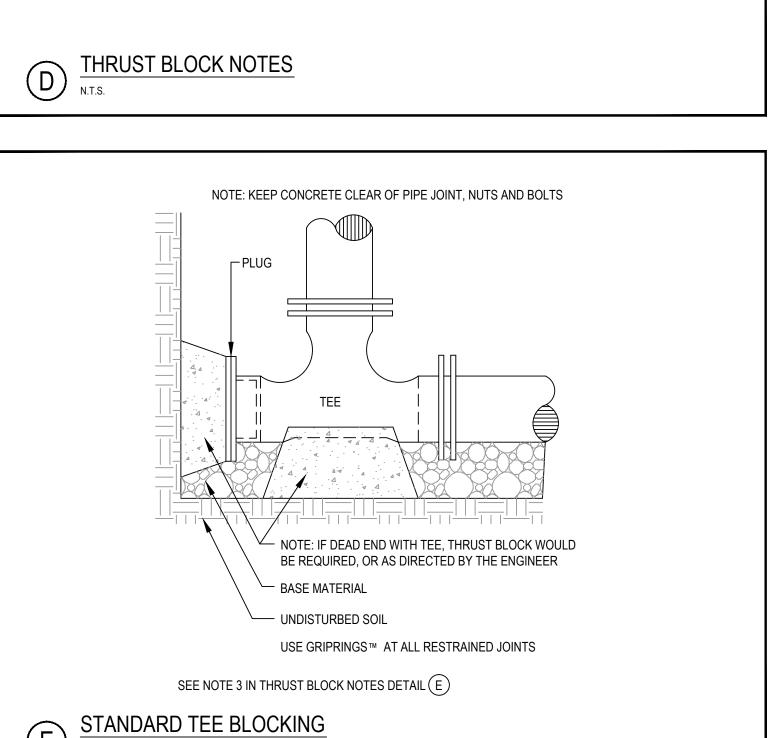
12" THICK 3/4" CRUSHED

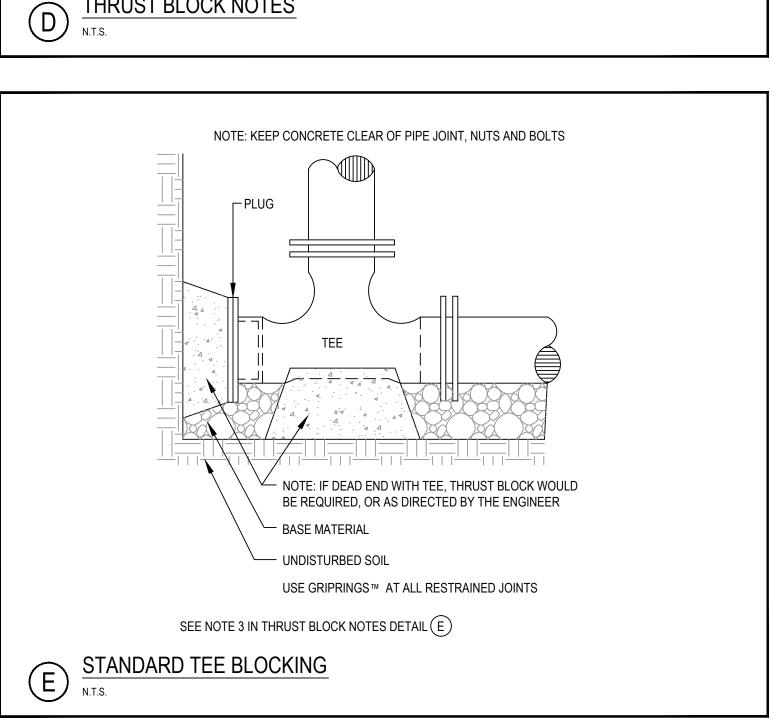
SHELF (1/4" PER FT)

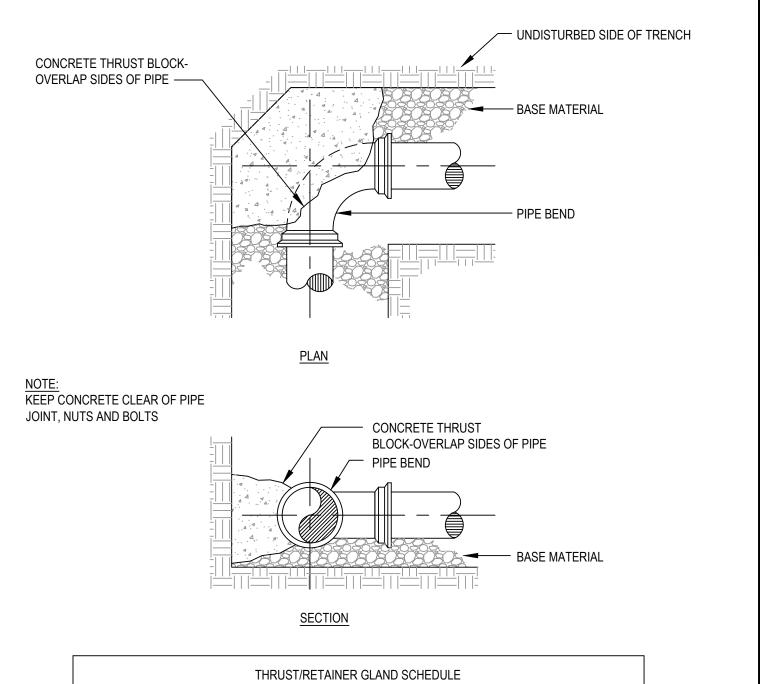
VERTICAL FROM SPRING LINE TO CROWN









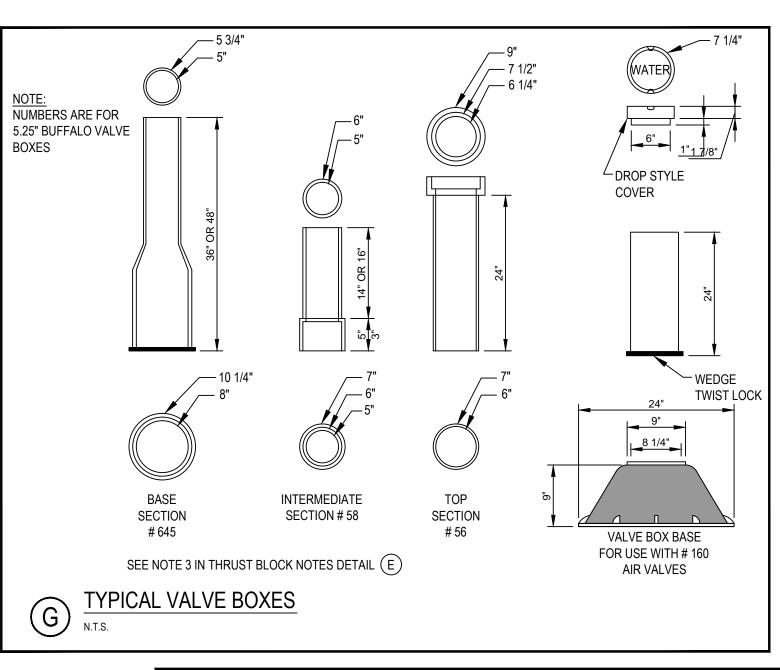


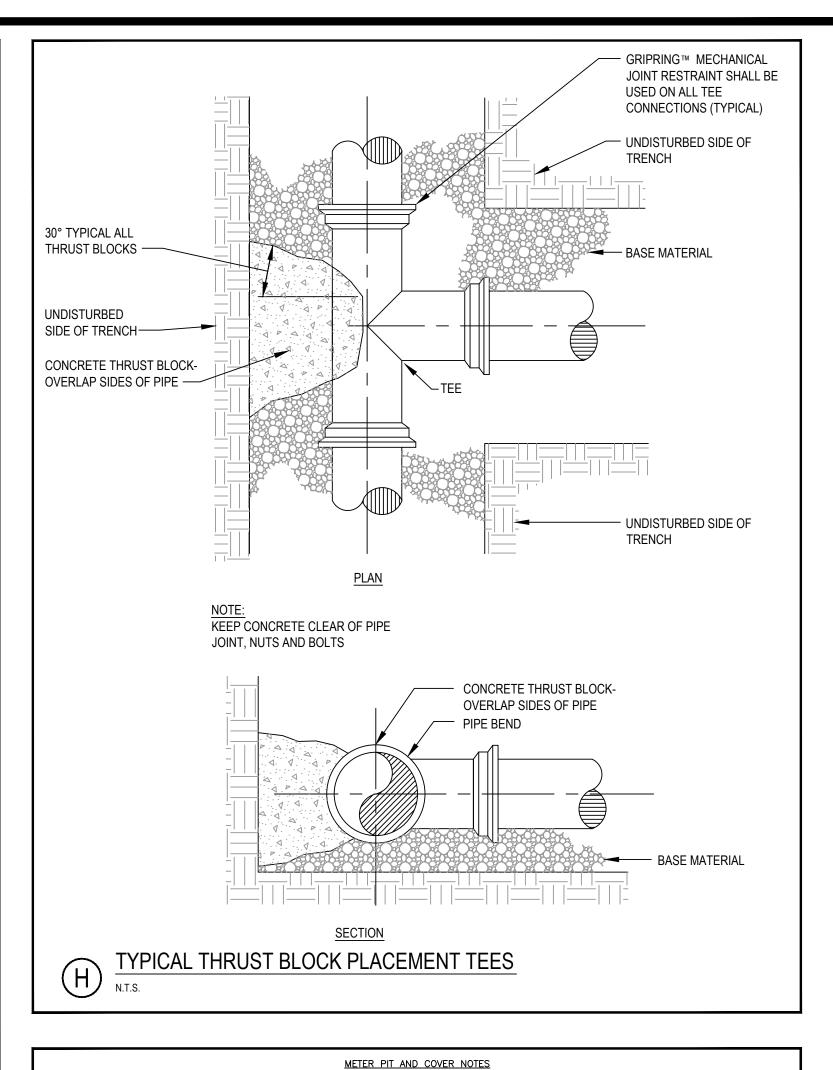
THRUST/RETAINER GLAND SCHEDULE		
1/4 BEND	(90°)	USE POURED-IN-PLACE THRUST BLOCK WITH GRIPRING™ MECHANICAL JOINT RESTRAINT
1/8 BEND	(45°)	THRUST BLOCK w/ GRIPRING™
1/16 BEND	(22 1/2°)	THRUST BLOCK w/ GRIPRING™
1/32 BEND	(11 1/4°)	THRUST BLOCK w/ GRIPRING™

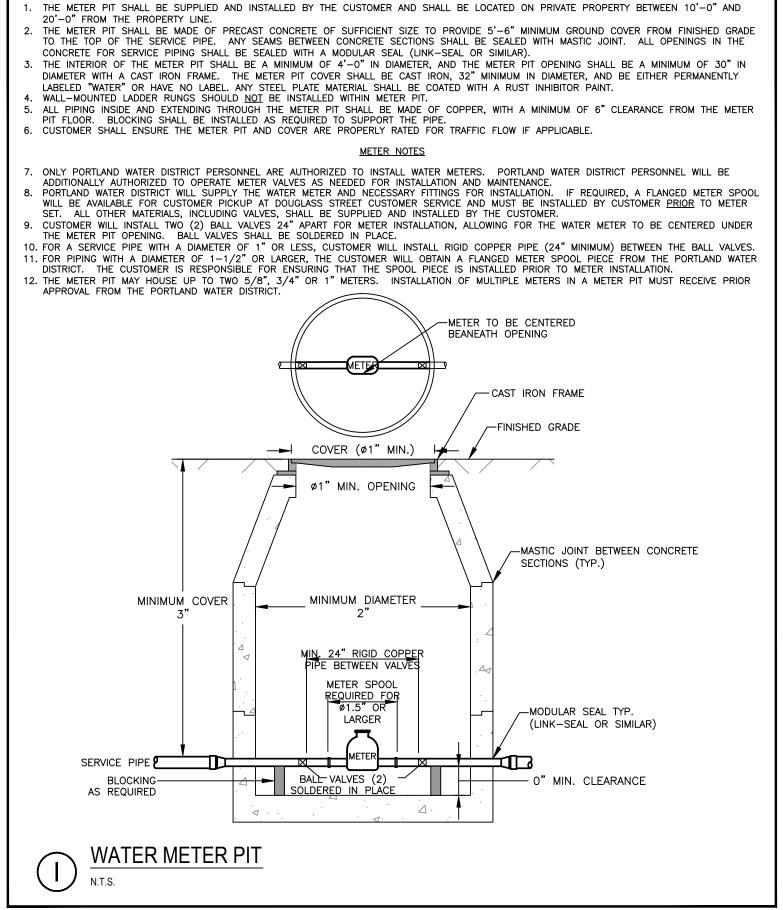
THE ABOVE SCHEDULE IS SUBJECT TO THE APPROVAL OF THE AQUA MAINE INSPECTOR DUE TO SOILS AND WORKING PRESSURES IN THE AREA.

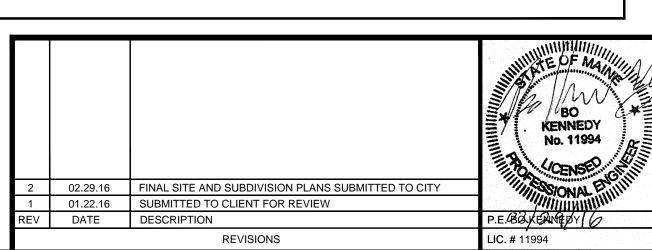
- 1. THE PORTLAND WATER DISTRICT MAY HAVE INSPECTION FEES AND REQUIRE OBSERVATION OF ALL PIPING INSTALLATION BEFORE BURIAL.
- 2. FOR WATER MAIN LAYOUT SEE DRAWING C-4.0
- 3. FOR WATER MAIN PROFILE SEE DRAWING C-10.0
- 4. FOR WATER MAIN SERVICE TRENCH DETAIL SEE DRAWING DETAIL D THIS SHEET.
- 5. CONTACT THE PORTLAND WATER DISTRICT FOR TESTING AND CHLORINATION REQUIREMENTS.
- 6. ALL HYDRANTS AND VALVES TO BE EPOXY COATED, NUTS & BOLTS TO BE STAINLESS STEEL
- 7. SERVICE RODS FOR DOMESTIC SERVICE OR AIR VALVES TO BE STAINLESS STEEL

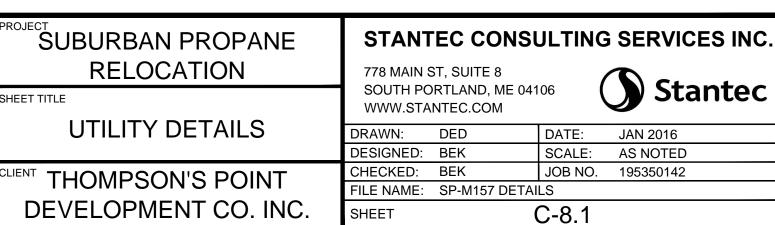
TYPICAL THRUST BLOCK PLACEMENT BENDS











PRELIMINARY - NOT FOR CONSTRUCTION

ALIGNMENT WITHIN MANHOLE.

1. BRICK CHANNEL TO BE AASHTO M-91-42 GRADE SA SEWER BRICK.

MANHOLE BRICK CHANNEL INSTALLATION DETAIL

2. MANHOLE TEST TO BE ACCOMPLISHED AFTER CHANNEL INSTALLATION IS COMPLETE.

3. WHERE THE ALIGNMENT CHANGES OR SIDE FLOW ENTERS THE MANHOLE, CONSTRUCT

CHANNEL WITH A SMOOTH RADIAL CHANNEL TO ACCOMPLISH ALL JUNCTIONAL CHANGE OF