

STANDARD TEE BLOCKING

- 1. INSTALL POLY BARRIER BETWEEN PIPE AND ALL THRUST BLOCKS.
- 2. ANY MODIFICATION TO THRUST BLOCK SIZING OR PIPE RESTRAINT REVISIONS SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO IMPLEMENTATION IN THE FIELD
- 3. ANY WORK RELATING TO WATER PIPING OR DETAILS SHALL BE IN ACCORDANCE WITH THE PORTLAND WATER DISTRICT SPECIFICATIONS

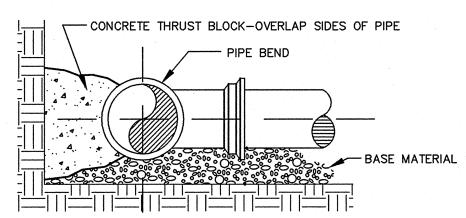
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PIPE SIZE	1/32 BEND	1/16 BEND	1/8 BEND	1/4 BEND	TEES/CAPS
4"	1.8	3.6	7.0	12.8	9.1
6"	3.7	7.3	14.3	26.4	8.7
8"	6.4	12.6	24.7	45.5	32.2

THRUST BLOCK NOTES

BEARING SURFACE REQUIRED IN SQUARE FEET

NOTE: KEEP CONCRETE CLEAR OF PIPE JOINT, NUTS AND BOLTS

SIDE OF TRENCH MATERIAL THRUST BLOCK-OVERLAP SIDES OF PIPE



	<u></u>							
		SECTION						
	THRUS	T/RETAINER GLAND SCHEDULE						
)°)		USE POURED-IN-PLACE THRUST BLOCK W/RETAINERS						
j°)		THRUST BLOCK w/RETAINERS						

LENGTH OF REGULAR SOCKET WRENCH.

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

(22 1/2°) | THRUST BLOCK

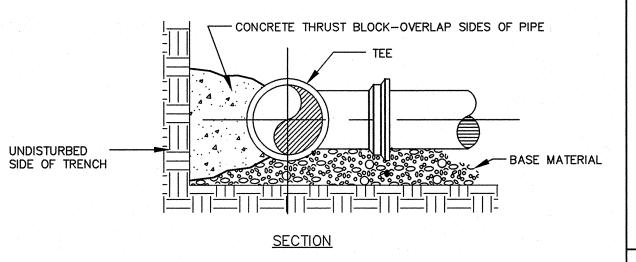
(11 1/4') THRUST BLOCK

1/4 BEND 1/8 BEND

1/16 BEND

1/32 BEND

- UNDISTURBED SIDE OF TRENCH 30° TYPICAL ALL THRUST BLOCKS UNDISTURBED-SIDE OF TRENCH THRUST BLOCK-OVERLAP SIDES OF PIPE SIDE OF TRENCH PLAN VIEW



TYPICAL THRUST BLOCK PLACEMENT ON TEES

TYPICAL THRUST BLOCK PLACEMENT ON BENDS

THRUST BLOCKS

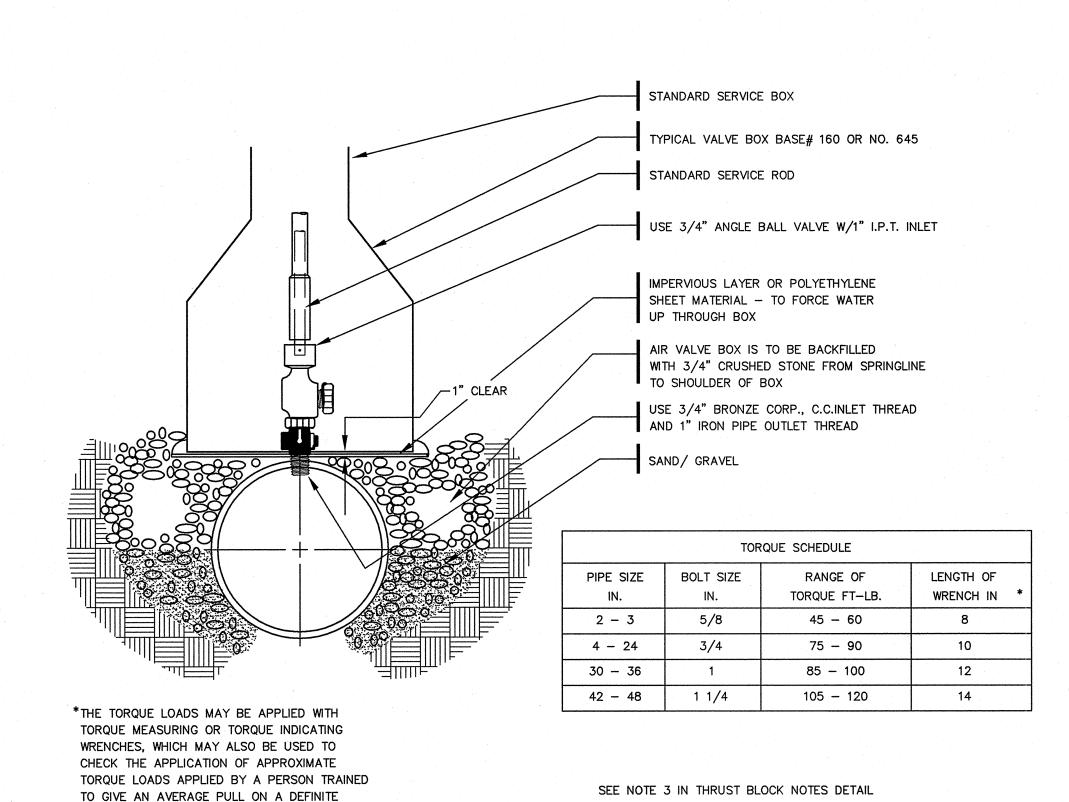
MATCH PROPOSED PAVEMENT __ TRENCH SECTION OR LOAM & SEED AS REQUIRED SUITABLE BACKFILL FREE OF FROZEN LUMPS, ROCKS OR STONES LARGER THAN 5", DEBRIS OR RUBBISH/ BACKFILL SHALL BE 3/4" CRUSHED STONE IN BLAST ROCK FILL PLASTIC MARKER TAPE IN CENTER OF TRENCH APPROX. 12" BELOW FINAL GRADE SERVICE LINE SERVICE LINE D SERVICE LINE A INSTALL PULL ROPE

			CONDUIT TYPE		
SE	ERVICE	CONDUIT SIZE	GRASS AND PAVED AREAS	UTILITY	REMARKS
	A , , , ,	2-5"	SCHEDULE 40 PVC ELECTRICAL GRADE	PRIMARY POWER	SEE NOTE
	В	2-4"	SCHEDULE 40 PVC	TELEPHONE	SEE NOTE
	C	2-4"	SCHEDULE 40 PVC	CABLE	SEE NOTE
	D	2-4"	SCHEDULE 40 PVC	FIRE ALARM	SEE NOTE

GALVANIZED STEEL LONG SWEEP AT RISER POLE AND EXTEND GALVANIZED CONDUIT TO 10"

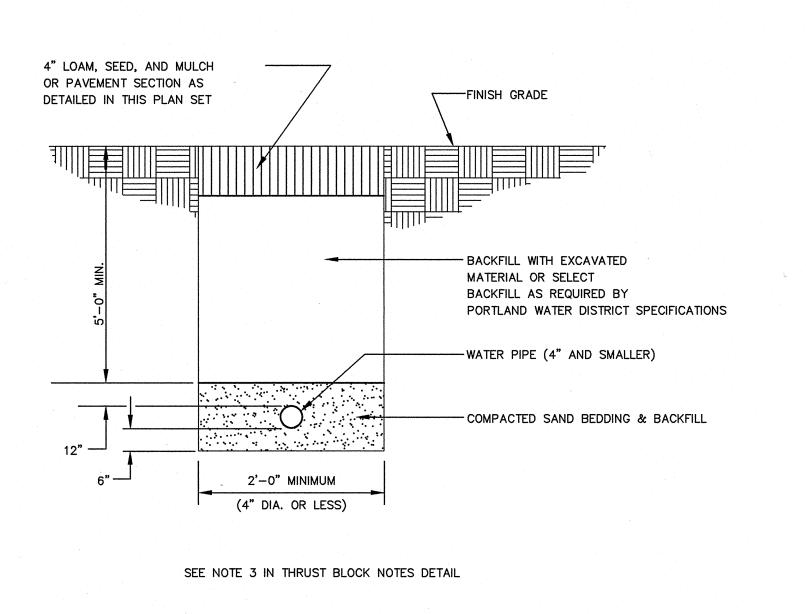
<u>UTILITY TRENCH -</u> PRIMARY AND SECONDARY POWER, TELEPHONE, AND CABLE

N.T.S.

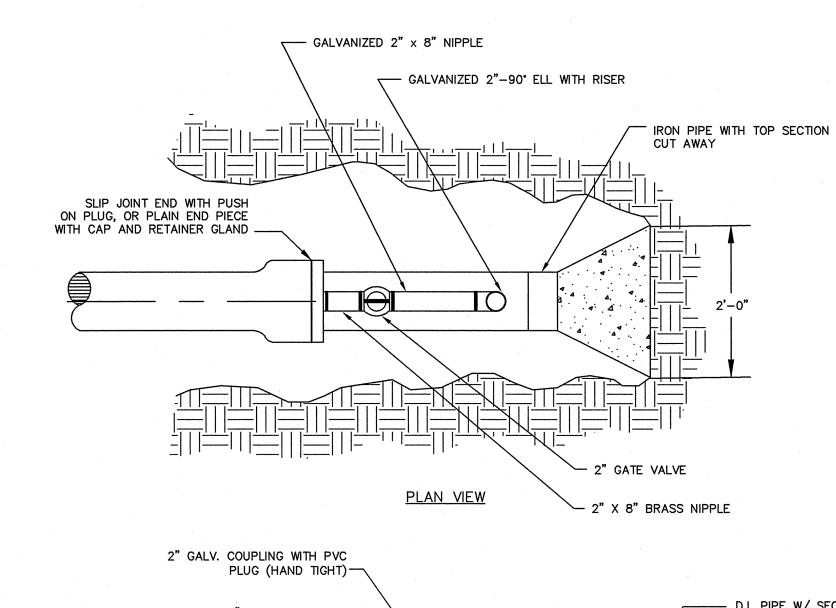


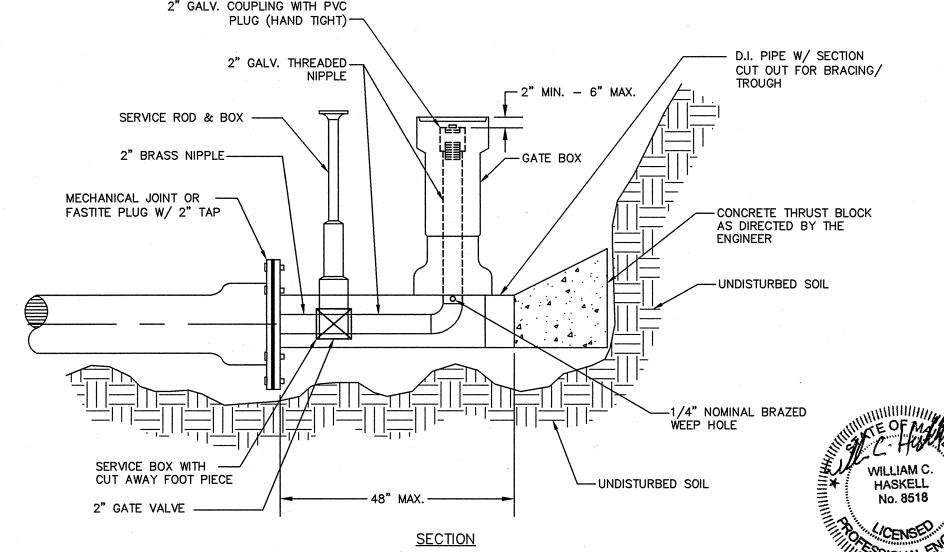
TYPICAL AIR VALVE SECTION (1")

N.T.S.



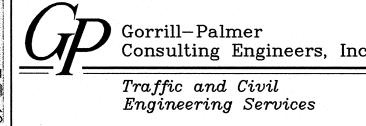
WATER SERVICE TRENCH SECTION N.T.S.







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ARCHITECTS

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HOUSING

REVISIONS

DATE DESCRIPTION

12.7.07 MAINE HOUSING

5.2.08 90% MAINE HOUSING

9.2.08 | 100% BID DOCUMENTS

3 7.31.08 100% MAINE HOUSING

DATE:

PROJECT #

DRAWN BY:

CHECKED BY:

DRAWING SCALE

SHEET TITLE

UTILITY DETAILS

50% REVIEW SET

REVIEW SET

REVIEW SET

12.7.07

100405

CAP

WH

N.T.S.

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IN EACH CONDUIT (TYP)

ELECTRICAL GRADE

NOTE: ONE CONDUIT CAPPED FOR SPARE, PROVIDE ABOVE GRADE AT POLE WITH STAND-OFF BRACKETS