



General Notes Governing the Installation of Transverse Pipe Lines

1. This Typical Cross-Section and Table are intended to show minimum standards acceptable to Port Authority; actual installation to be as shown on exhibits presented with application and made a part of installation permit.
2. Specifications made a part of Permit shall govern if conflicts exist between those specifications and this drawing.
3. Casing shall be steel, of minimum dimensions shown by Table, with watertight joints capable of developing the pressure strength of the pipe.
4. In order to protect personnel and equipment operating on Port Authority tracks, the Superintendent of Maintenance of the Port Terminal Railroad Association shall be notified by recipient of Permit of work to be performed on Port Authority's right-of-way prior to commencement thereof.
5. Shoring as required and minimum bore length shall be approved in advance by Superintendent of Maintenance of the Port Terminal Railroad Association.
6. Trenching shall not be permitted within 25 feet of the center line of any track.
7. Holes shall be dry bored or dry tunneled. Void between casing and bored hole shall be completely filled with a 1 to 10 mixture of cement and sand.
8. Licensee shall give three (3) days notice prior to beginning installation.
9. Permission given by the Port Authority/PTRA to allow for directional drilling will supercede item number 7.

NOTE:

SUPERINTENDENT OF MAINTENANCE
 PORT TERMINAL RAILROAD ASSOC.
 713-408-2653

TABLE

EXHIBIT

Revised: 04-04-13
 Changed P.T.R.A. job title

PIPE	CASING		VENTS	PORT OF HOUSTON AUTHORITY												
NOMINAL DIAMETER	MINIMUM NOMINAL DIAMETER	MINIMUM WALL THICKNESS	PIPE SIZE	STANDARDS FOR INSTALLATION OF PIPE LINES CROSSING PORT AUTHORITY'S RAILROAD RIGHT-OF-WAY												
0 THRU 3 1/2"	PIPE DIA. PLUS 2"	3/16"	2"	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DRAWN BY: B.J.D.</td> <td style="width: 25%;">APPROVED: </td> <td style="width: 25%;">DATE: 04-04-13</td> <td style="width: 25%;">DRAWING NO. R6-X5</td> </tr> <tr> <td>CHECKED BY: W.A.W.</td> <td colspan="2" rowspan="2" style="text-align: center;">MANAGING DIRECTOR</td> <td>SHEET NO. 1 OF 1</td> </tr> <tr> <td>DATE: 10-27-93</td> <td>SCALE: N.T.S.</td> </tr> </table>			DRAWN BY: B.J.D.	APPROVED:	DATE: 04-04-13	DRAWING NO. R6-X5	CHECKED BY: W.A.W.	MANAGING DIRECTOR		SHEET NO. 1 OF 1	DATE: 10-27-93	SCALE: N.T.S.
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CHECKED BY: W.A.W.	MANAGING DIRECTOR		SHEET NO. 1 OF 1													
DATE: 10-27-93			SCALE: N.T.S.													
4" THUR 9"	PIPE DIA. PLUS 3"	3/16"	2"													
10" THRU 14"	PIPE DIA. PLUS 4"	1/4"	3"													
15" THRU 24"	PIPE DIA. PLUS 5"	5/16"	4"													
25" THRU 34"	PIPE DIA. PLUS 6"	3/8"	6"													
36" THRU 48"	PIPE DIA. PLUS 7"	CORR. METAL PIPE, 8 GAGE	8"													