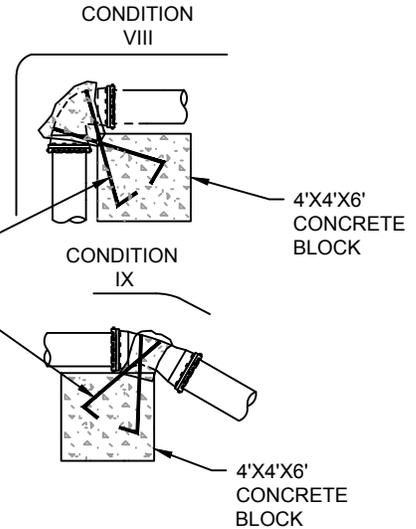
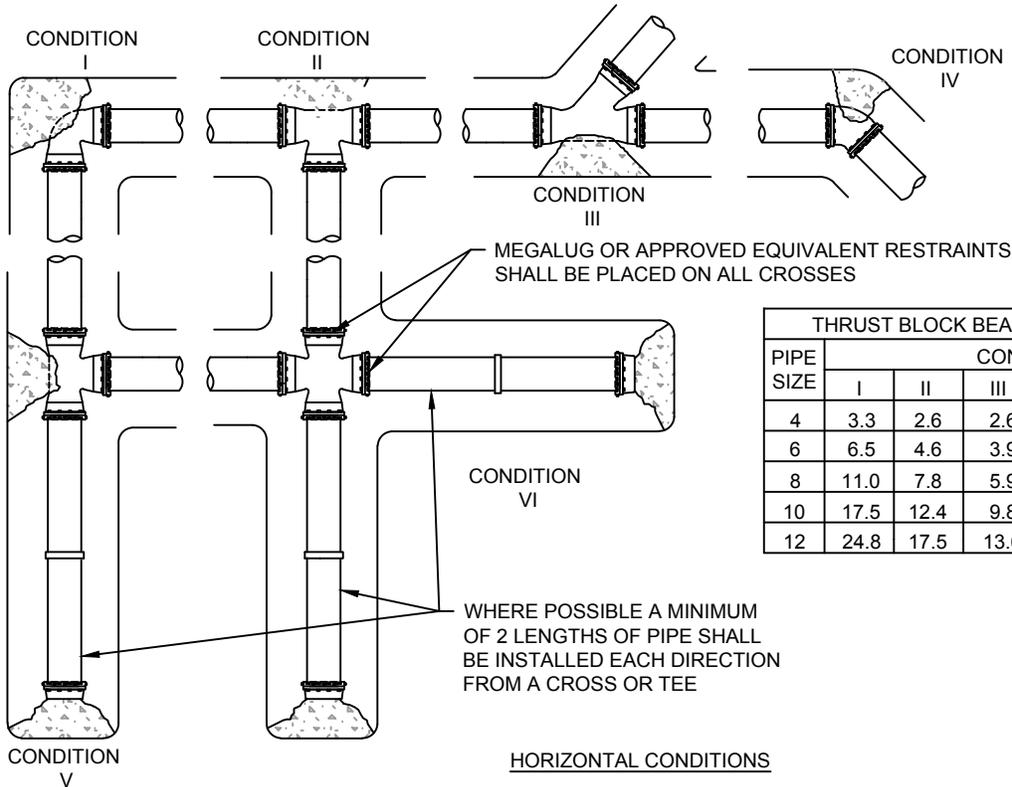


CONDITION VII

CEMENT MORTAR 2 #6 REBAR HAIRPINS. PAINT UNEMBEDDED PORTION OF BARS WITH 2 COATS OF COAL TAR EPOXY AND THEN COVER WITH 2" MIN. OF CEMENT MORTAR.



VERTICAL CONDITIONS



MEGALUG OR APPROVED EQUIVALENT RESTRAINTS SHALL BE PLACED ON ALL CROSSES

WHERE POSSIBLE A MINIMUM OF 2 LENGTHS OF PIPE SHALL BE INSTALLED EACH DIRECTION FROM A CROSS OR TEE

HORIZONTAL CONDITIONS

PIPE SIZE	THRUST BLOCK BEARING AREA SQ FT					
	CONDITION					
	I	II	III	IV	V	VII
4	3.3	2.6	2.6	1.3	2.6	1.3
6	6.5	4.6	3.9	2.0	4.6	2.0
8	11.0	7.8	5.9	3.3	7.8	3.3
10	17.5	12.4	9.8	5.2	12.4	5.2
12	24.8	17.5	13.6	7.8	17.5	7.8

NOTES:

- MECHANICAL RESTRAINING DEVICES INSTALLED ACCORDING TO THE STANDARD DRAWINGS MAY BE USED IN PLACE OF CONCRETE THRUST BLOCKS. USE MECHANICAL RESTRAINING IN UNSTABLE SOILS.
- ALL CONCRETE THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED BACKFILL.
- A MINIMUM APWA CLASS 2000 PORTLAND CEMENT CONCRETE SHALL BE USED ON ALL HORIZONTAL THRUST BLOCKS AND APWA CLASS 4000 ON VERTICAL.
- THRUST BLOCKS SHALL NOT INTERFERE WITH ACCESS TO JOINTS AND BOLTS.
- FITTINGS SHALL BE ENCASED IN AN 8 MIL VINYL WRAP PLASTIC COVER.
- ALL FITTING JOINTS SHALL BE MECHANICAL.
- HORIZONTAL THRUST BLOCKS FOR PIPE WITH LARGER THAN 12" I.D. SHALL HAVE A DESIGN SUBMITTED THAT IS STAMPED BY A LICENSED PROFESSIONAL ENGINEER.



SPANISH FORK CITY
40 SOUTH MAIN STREET
SPANISH FORK, UT 84660
(801) 804-4550

STANDARD DRAWING

CONCRETE THRUST BLOCKS FOR PRESSURE PIPE

DRAWN: JLR
DESIGN: CJP
CHECK: CMT
DATE: 6/22/16

SCALE: NONE
STANDARD 5