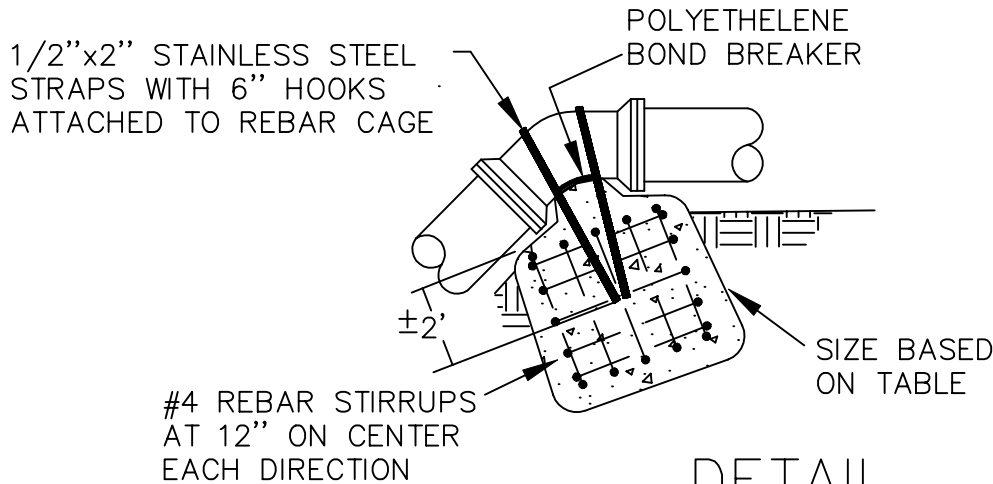


PIPE PROFILE



DETAIL

NOTE:

ALL FITTINGS MUST BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO BOLTS OR PIPE.

REQUIRED CUBIC YARDS OF CONCRETE *			
SIZE	11 1/4° BEND	22 1/2° BEND	45° BEND
4"	0.2	0.3	0.9
6"	0.4	0.7	2.1
8"	0.6	1.3	3.6
10"	1.0	1.9	5.6
12"	1.4	2.7	8.1
14"	1.9	3.8	11.1
16"	2.4	4.9	14.4
18"	3.1	6.2	18.3
20"	3.8	7.6	22.6
24"	5.5	10.7	32.5

* BASED ON 250 PSI MAXIMUM PRESSURE WITH NO SOIL BEARING PRESSURE

DRAWN BY: JSH
CHECKED BY: RJH

APPROVED BY:
DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO

VERTICAL
THRUST BLOCK

ISSUED: JULY 2, 1998
REVISED: OCT. 17, 2000

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5.15