

90° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	84	60	51	42	32	24	18
B	72	60	51	42	32	24	18
C	30	18	16	12	12	9	9
D	34	30	24	17	13	9	9

45° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	58	43	38	32	24	18	12
B	58	43	38	32	24	18	12
C	24	16	14	12	12	8	8
D	24	18	15	12	9	6	6

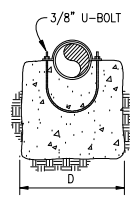
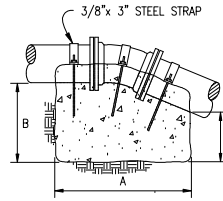
22 1/2° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	42	32	27	24	18	12	9
B	42	32	27	24	18	12	9
C	18	16	14	12	10	8	8
D	18	13	11	9	6	4	4

11 1/4° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	30	24	21	17	12	9	9
B	30	24	21	17	12	9	9
C	18	16	14	12	10	8	8
D	12	9	8	6	5	4	4

PLUG							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	66	52	43	34	27	20	18
B	66	52	43	34	27	20	18
C	12	12	12	12	12	12	12
D	44	32	22	15	11	11	11

TEE							
SIZE	MAIN BRANCH	16"	12"	10"	8"	6"	4"
A	16"	66	52	43	34	27	20
B	12"	66	52	43	34	27	20
C	30"	30	12	12	12	12	12
D	30"	26	21	14	21	13	13

DIMENSIONS ARE IN INCHES



90° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	85	67	60	54	42	34	30
B	85	67	60	54	42	34	18
C	80	63	56	50	38	30	16
D	76	66	60	48	48	36	24

45° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	72	60	50	46	35	30	24
B	72	60	50	46	35	28	24
C	68	56	46	42	30	24	18
D	72	60	60	48	48	36	24

22 1/2° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	58	50	42	38	30	24	18
B	58	48	42	38	30	24	18
C	54	44	38	34	26	20	14
D	60	48	48	36	36	30	24

11 1/4° BEND							
SIZE	16"	12"	10"	8"	6"	4"	2"
A	42	36	30	29	24	20	18
B	42	36	30	29	24	20	18
C	38	32	26	24	20	16	14
D	60	48	48	36	30	24	24

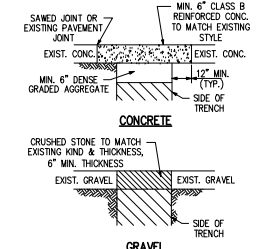
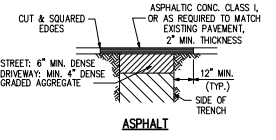
DIMENSIONS ARE IN INCHES

NOTES:

1. THRUST BLOCKS DESIGNED FOR 150 PSI PRESSURE. FOR GREATER PRESSURE QUANTITIES WILL HAVE TO BE RECALCULATED.
2. THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
3. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
4. THRUST BLOCKING TO BE POURED IN PLACE - CLASS "C" CONCRETE.

VERTICAL CONCRETE ANCHOR

NOT TO SCALE



PAVEMENT REPLACEMENT DETAILS

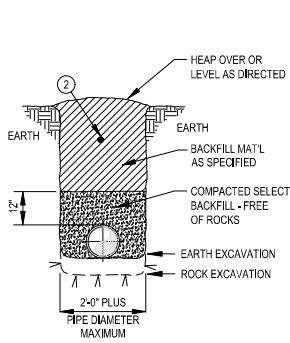
NOT TO SCALE

THRUST BLOCKING DETAIL

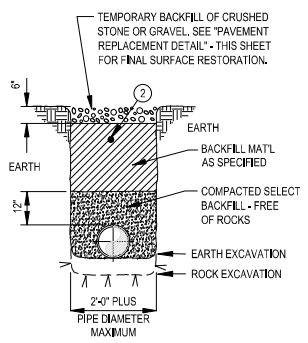
NOT TO SCALE

NOTE:

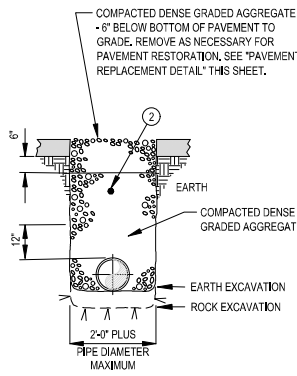
- ① SEE SPECIFICATIONS FOR DEPTH REQUIREMENT OF PIPE.
- ② LOCATOR WIRE, IF REQUIRED, SEE "DETECTABLE WIRE DETAIL" FOR CORRECT PLACEMENT.



METHOD "A"
(IN OPEN TERRAIN)



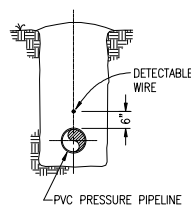
METHOD "B"
(UNDER DIRT ENTRANCES)



METHOD "C"
(UNDER PAVED STREETS,
ROADS & DRIVEWAYS)

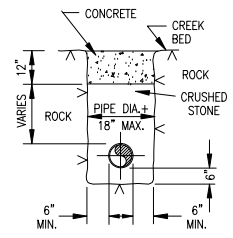
PRESSURE PIPE BEDDING & BACKFILLING DETAILS

NOT TO SCALE

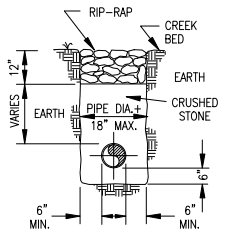


DETECTABLE WIRE DETAIL

NOT TO SCALE



IN ROCK BED



IN EARTH BED

DITCH CROSSING DETAIL

NOT TO SCALE