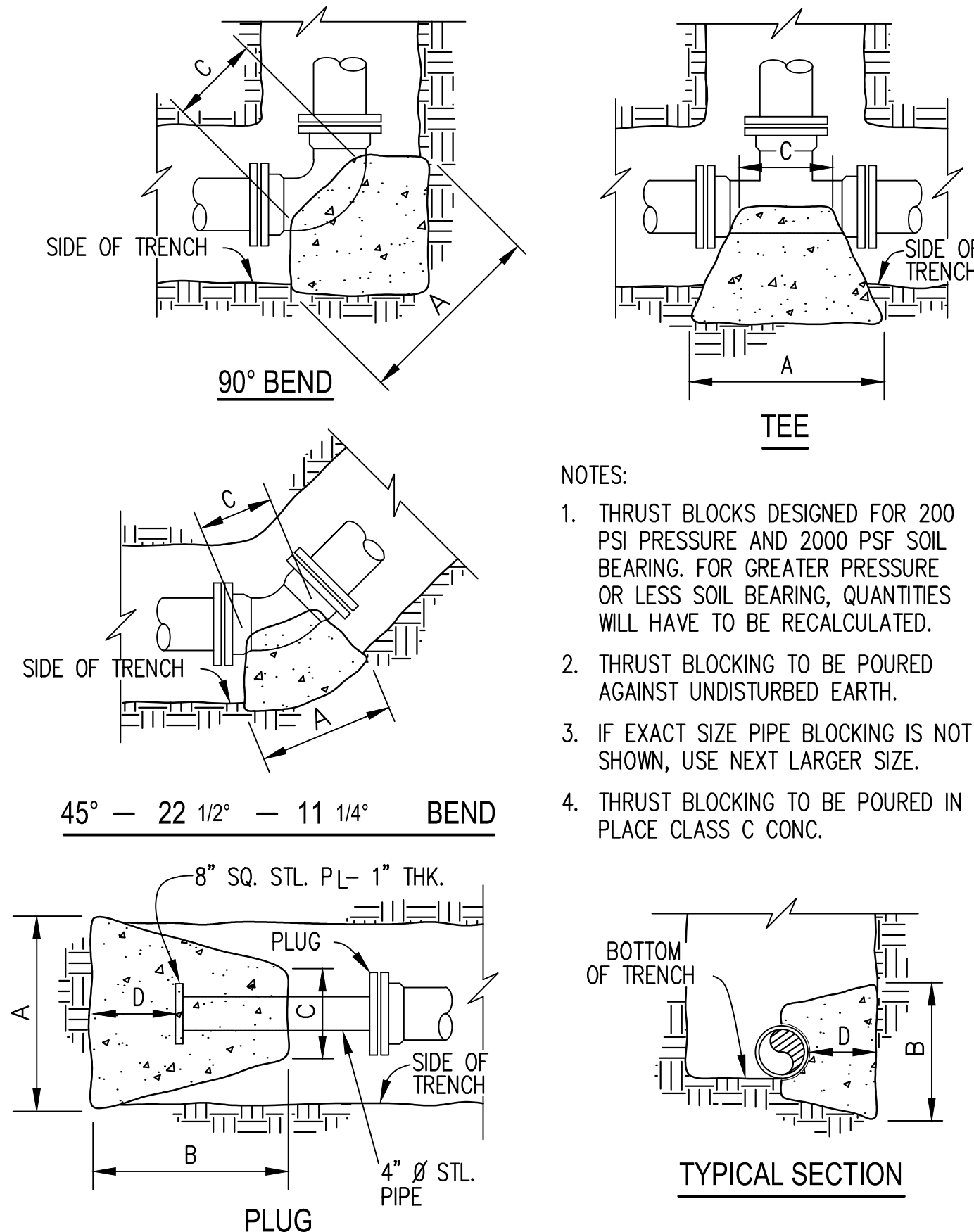




- NOTES:
- THRUST BLOCKS DESIGNED FOR 200 PSI PRESSURE AND 2000 PSF SOIL BEARING. FOR GREATER PRESSURE OR LESS SOIL BEARING, QUANTITIES WILL HAVE TO BE RECALCULATED.
 - THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
 - IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN, USE NEXT LARGER SIZE.
 - THRUST BLOCKING TO BE POURED IN PLACE CLASS "C" CONC.

THRUST BLOCKING DETAIL
NOT TO SCALE

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	

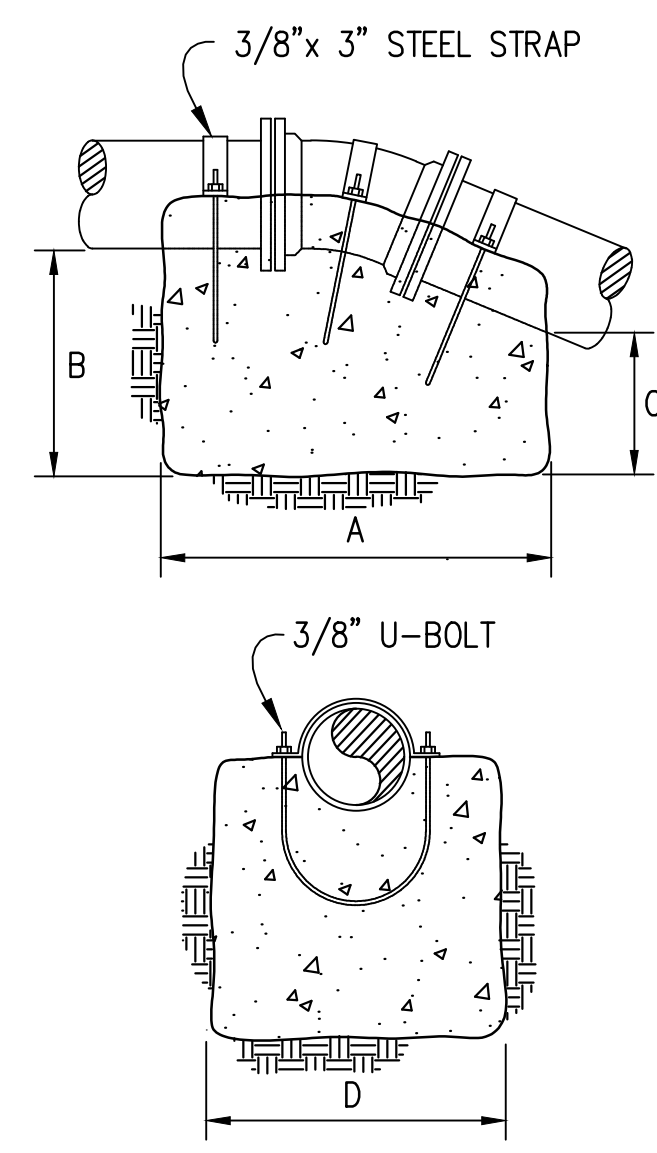
22 1/2° BEND								
SIZE	16"	12"	10"	8"	6"	4"	2"	
A	42	32	27	24	18	12	9	
B	42	32	27	24	18	12	9	
C	18	16	14	12	10	8	8	
D	18	13	11	9	6	4	4	

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	16"	12"	10"	8"	6"	4"	2"
A	BRANCH	16"	12"	8"-10"	2"-8"	8"-10"	2"-6"	2"-6"
B		66	52	43	34	43	26	26
C		66	52	43	34	43	26	26
D		30	12	12	12	12	12	12
D		30	26	21	14	21	13	13

DIMENSIONS ARE IN INCHES



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

VERTICAL CONCRETE ANCHOR
NOT TO SCALE

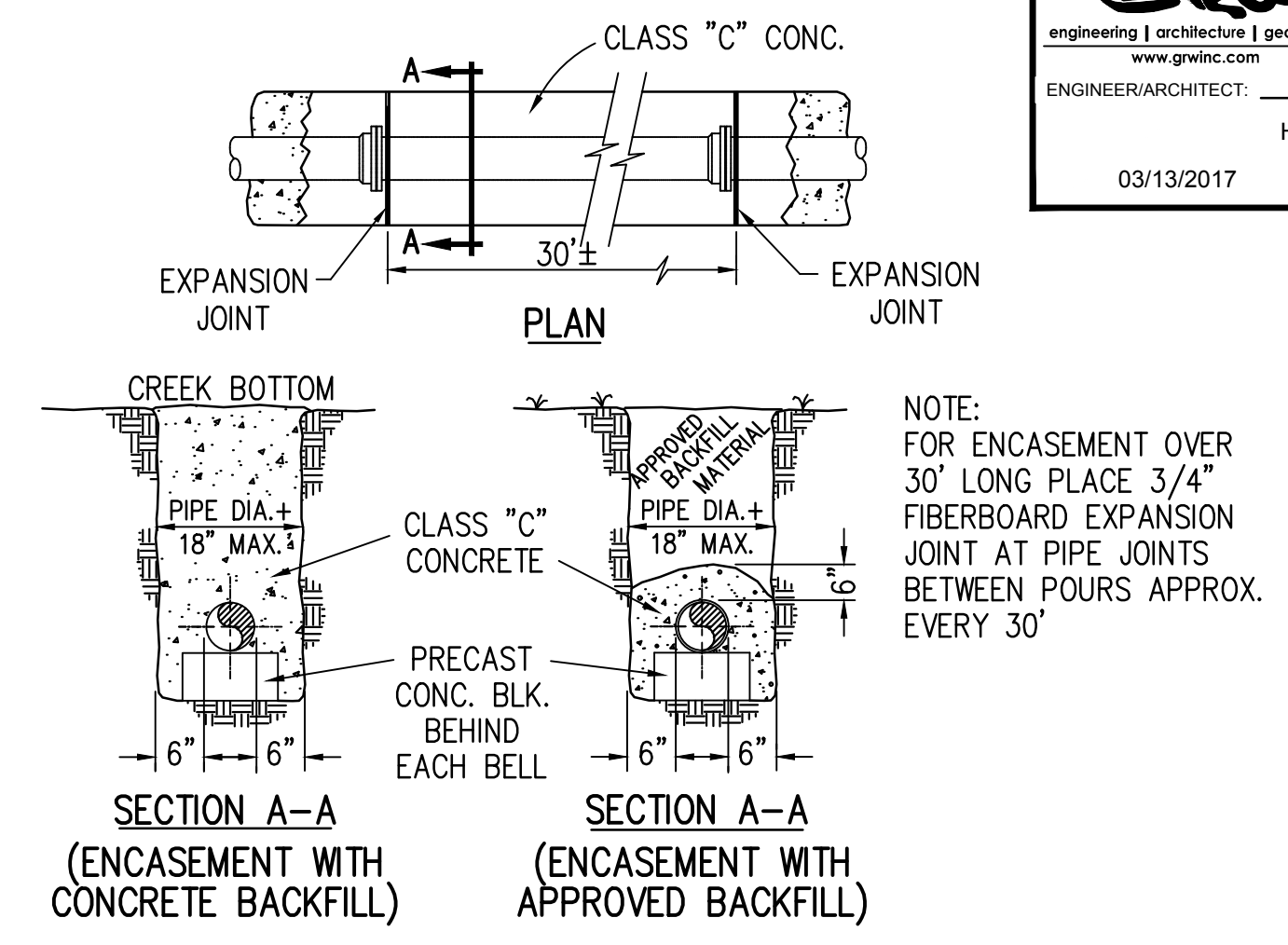
90° BEND								
SIZE	16"	12"	10"	8"	6"	4"	2"	
A	85	67	60	54	42	34	30	
B	85	67	60	54	42	34	18	
C	80	63	56	50	38	30	16	
D	76	66	60	48	48	36	24	

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	

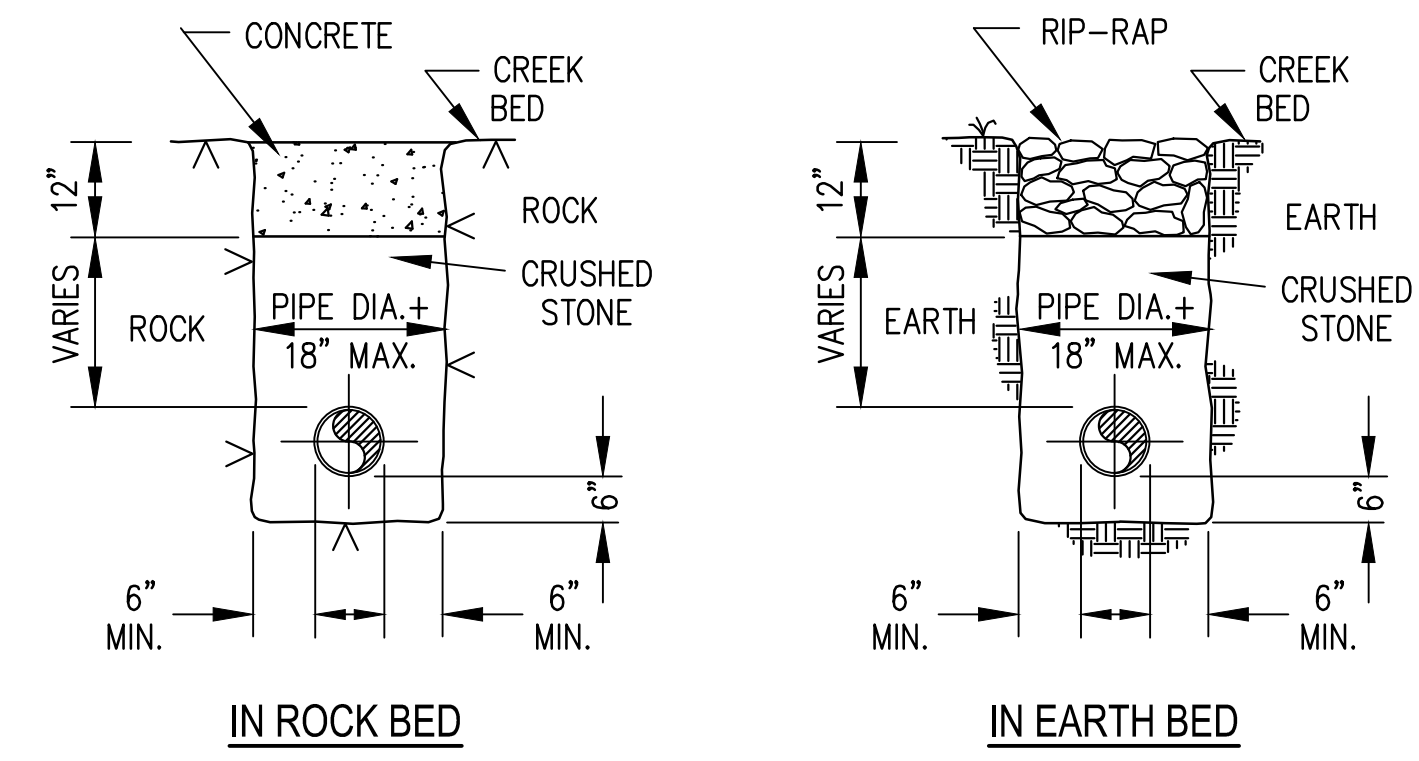
22 1/2° BEND								
SIZE	16"	12"	10"	8"	6"	4"	2"	
A	58	50	42	38	30	24	18	
B	58	48	42	38	30	24	18	
C	54	44	38	34	26	20	14	
D	60	48	48	36	36	30	24	

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	

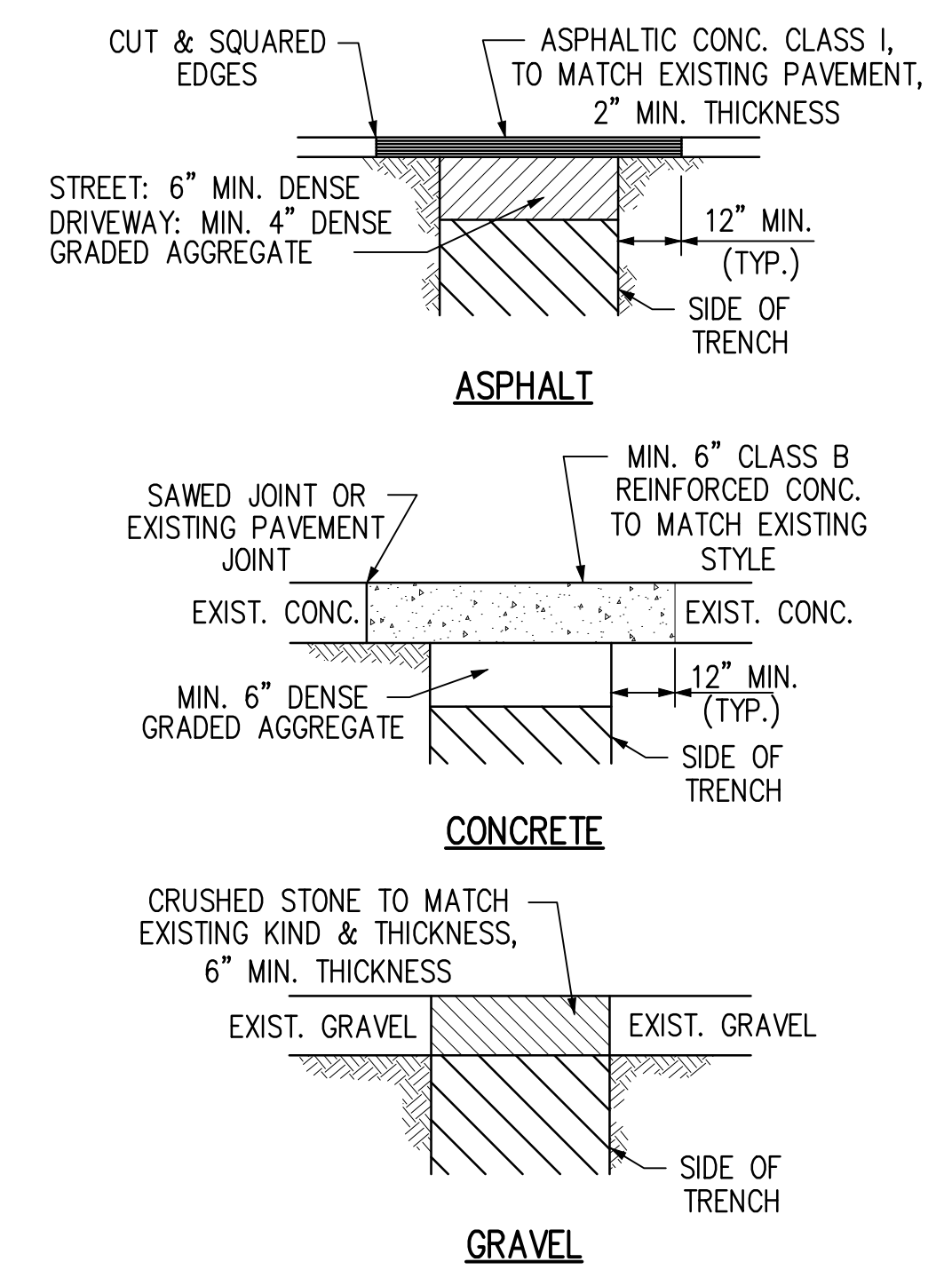
DIMENSIONS ARE IN INCHES



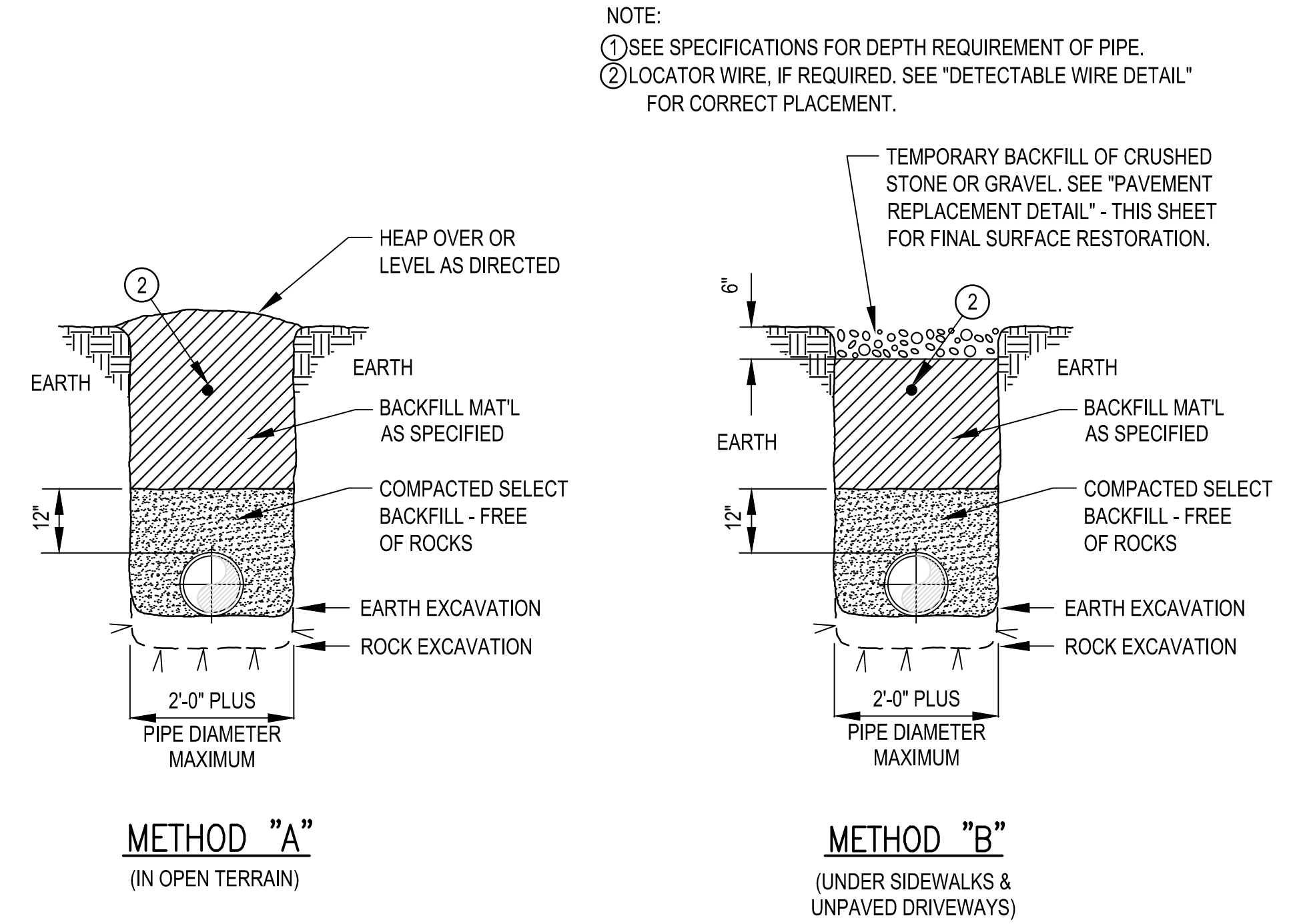
STANDARD CONCRETE ENCASEMENT
NOT TO SCALE



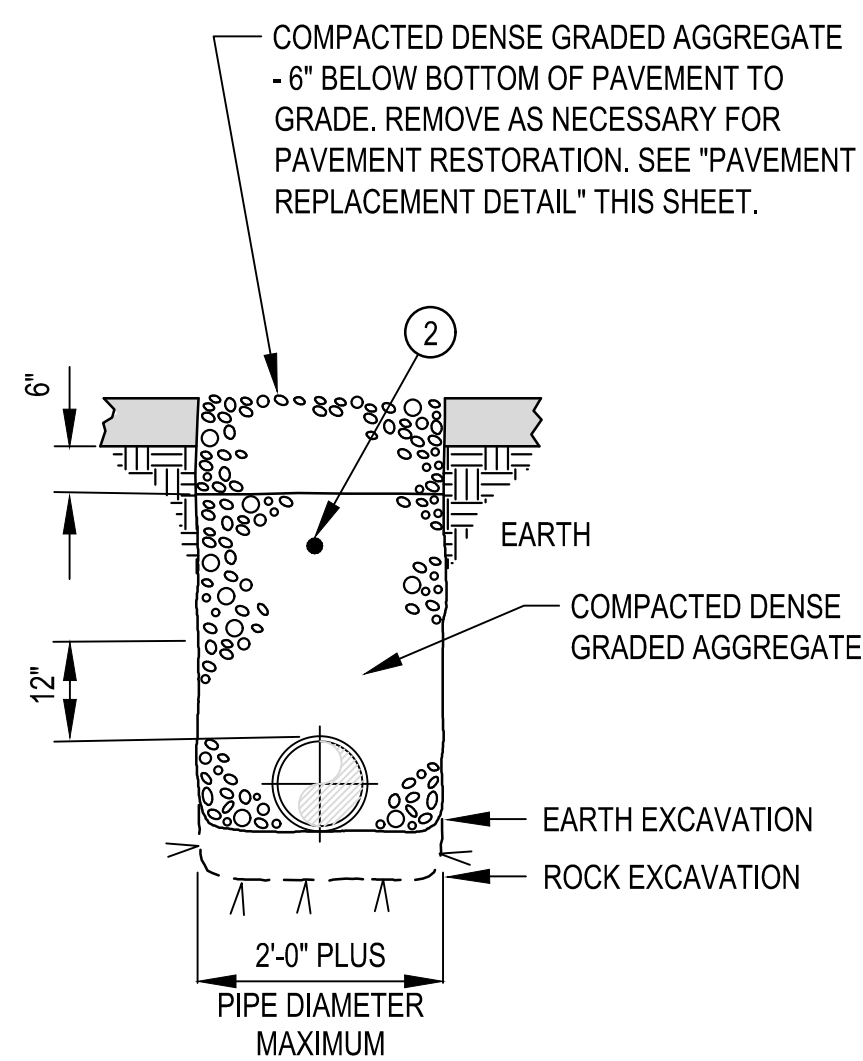
DITCH/CREEK CROSSING DETAIL
NOT TO SCALE



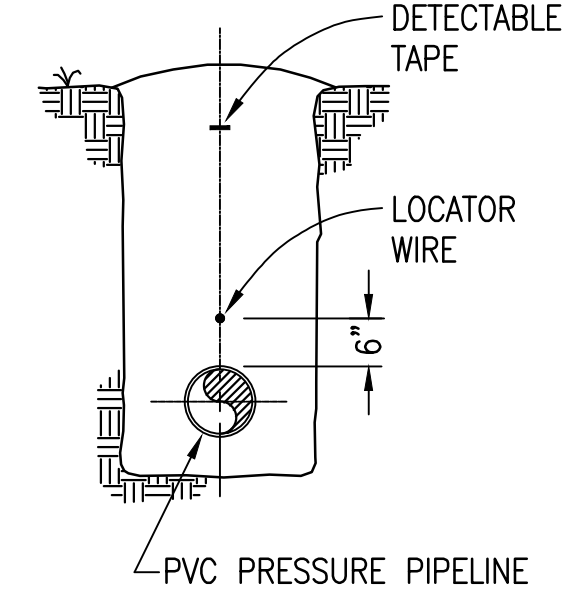
PAVEMENT REPLACEMENT DETAILS
NOT TO SCALE



PRESSURE PIPE BEDDING & BACKFILLING DETAILS
NOT TO SCALE



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



DETECTABLE WIRE/TAPE DETAIL
NOT TO SCALE

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HUGHES EXCAVATING, LLC
03/13/2017

This document, originally issued, sealed, and signed by Barry L. Cloyd, Tennessee Professional Engineer, No. 100893, on December 14, 2015, shall not be used in lieu of a certified document.

GRW PROJECT NO. 4349-01

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STANDARD WATER LINE DETAILS

ROAN & CROOKED CREEK RDS. WATER LINE EXTENSIONS
CDBG CONTRACT NO. 2737
PERRY COUNTY, TENNESSEE

DESIGNED	BLC	DRAWN	DM	REVIEWED	BLC	APPROVED	BLC
NO.		DATE		DESCRIPTION		SCALE CHECK	

DATE: JANUARY 2015
SCALE: AS NOTED
SHEET NO.

SD-06