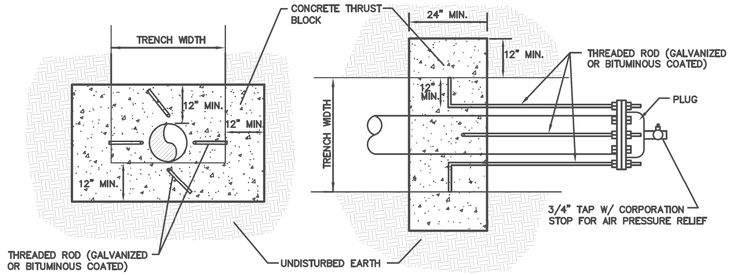
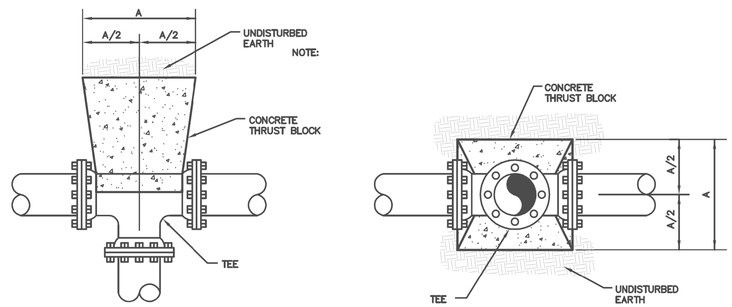
TYPICAL THRUST BLOCK DETAILS



TYPICAL THRUST BLOCK FOR PLUGS



TYPICAL THRUST BLOCK FOR REDUCER

THRUST BLOCK NOTES:

1. FITTING JOINTS SHALL NOT BE POURED IN CONCRETE OR HAVE CONCRETE SPILLED ON THE BOLTS OR NUTS. THE FITTING SHALL BE WRAPPED IN A LAYER OF POLYETHYLENE PLASTIC PRIOR TO POURING THE THRUST BLOCK.

2. ROD AND EYE BOLT DIAMETER SHALL BE MINIMUM OF ¾" AND SHALL MATCH THE SIZE OF THE BOLT PROVIDED WITH THE FITTING.

3. CONTRACTOR SHALL REPLACE FITTING BOLTS WITH THREADED ROD FOR ½ OF THE BOLTS SUPPLED WITH EACH FITTING. RODS SHALL BE EQUALLY SPACED.

4. CONCRETE SHALL BE 3000 PSI MIN.

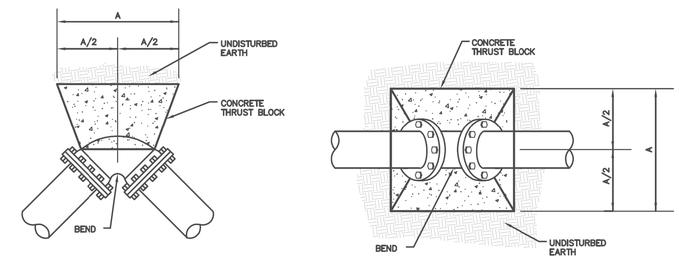
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PROJECT REFERENCE NO.	SHEET NO.
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DESIGNED BY: TLV	
DRAWN BY: GMM	
CHECKED BY: TLV	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

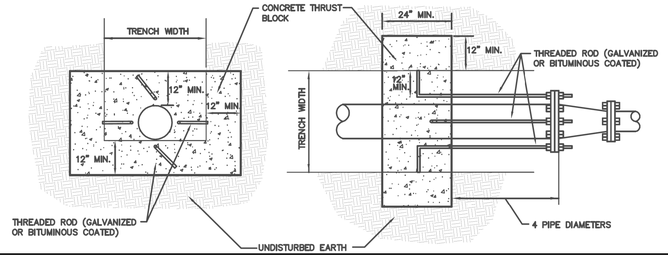
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 057141 TODD L. VALENCIA 9/29/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION



TYPICAL THRUST BLOCKS FOR BENDS



TYPICAL THRUST BLOCK DETAILS

SIZE	TYPE					
	11–1/4° BEND	22–1/2° BEND	45° BEND	90° BEND	TEE	PLUG
2–6	12	12	12	16	16	14
8	12	12	16	22	22	18
10	12	14	20	28	28	22
12	12	18	24	32	32	28
14	14	20	28	38	38	32
16	16	22	32	42	42	36
18	18	26	36	48	48	40
20	20	28	40	52	52	44
24	24	34	46	64	64	54
30	30	42	58	78	78	66
36	36	50	70	94	94	80
42	40	58	80	108	108	92
48	46	66	90	124	124	104

THRUST BLOCK DIMENSION "A"

REVISIONS

12/11/2025
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