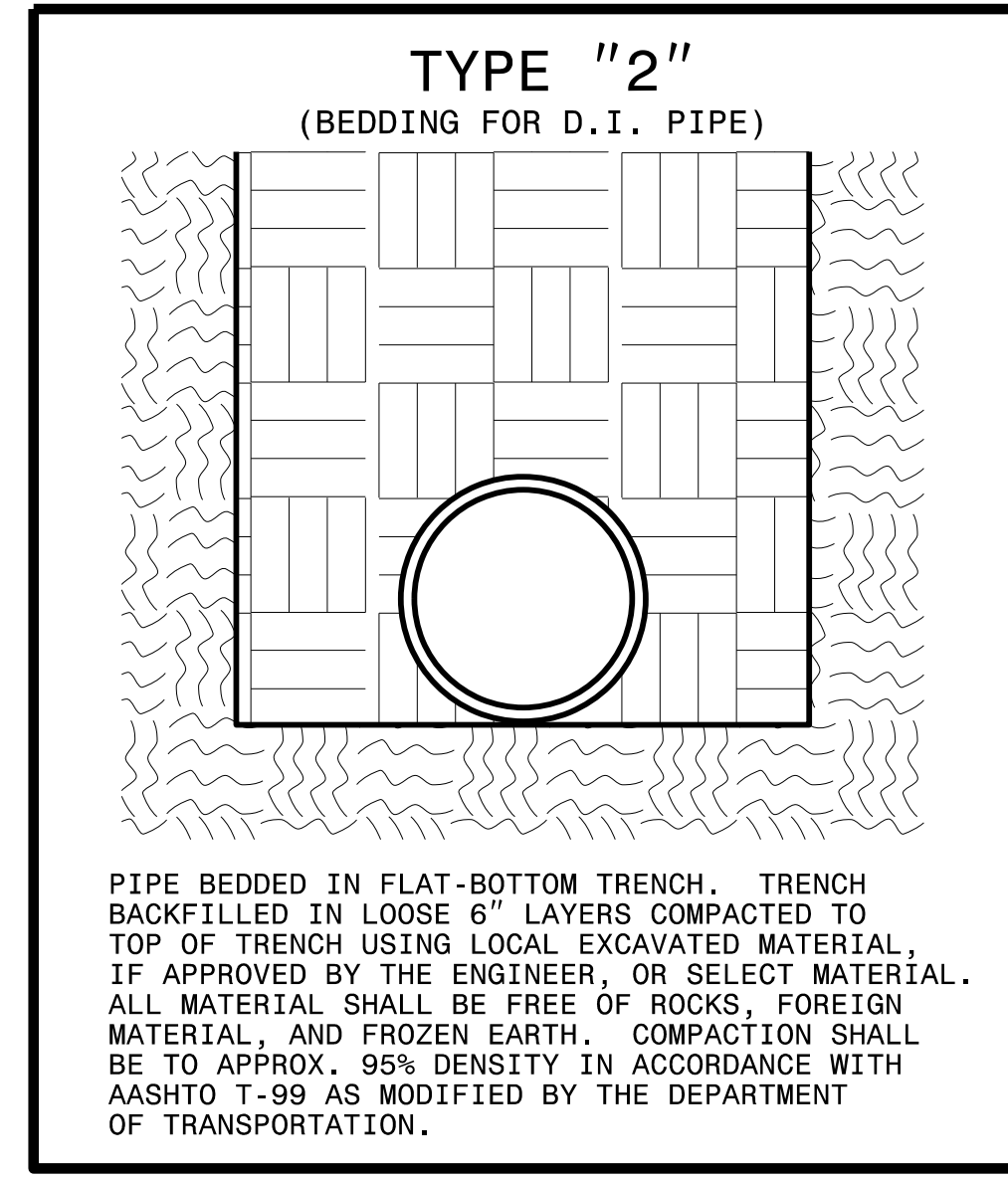
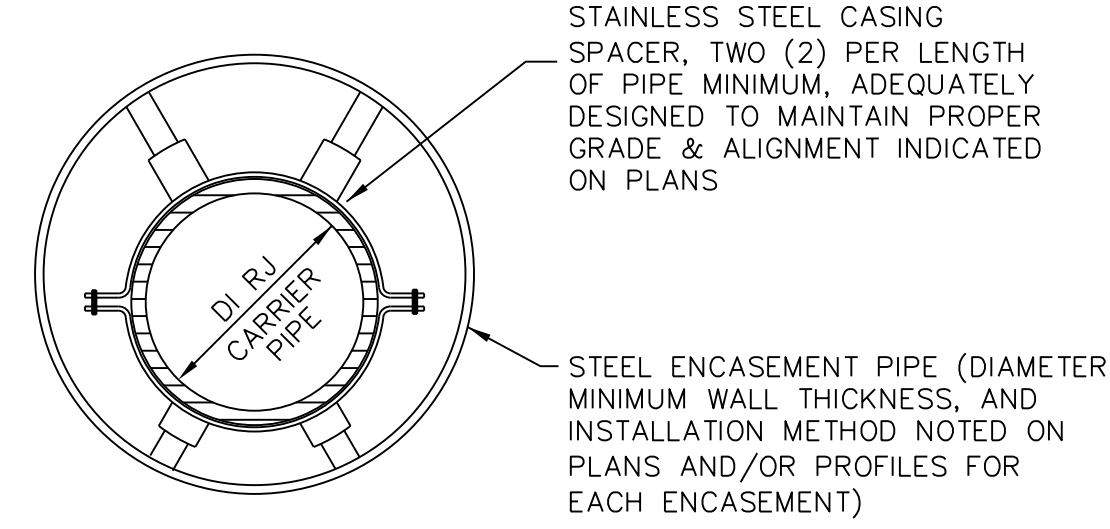


5/14/99



PIPE BEDDED IN FLAT-BOTTOM TRENCH. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

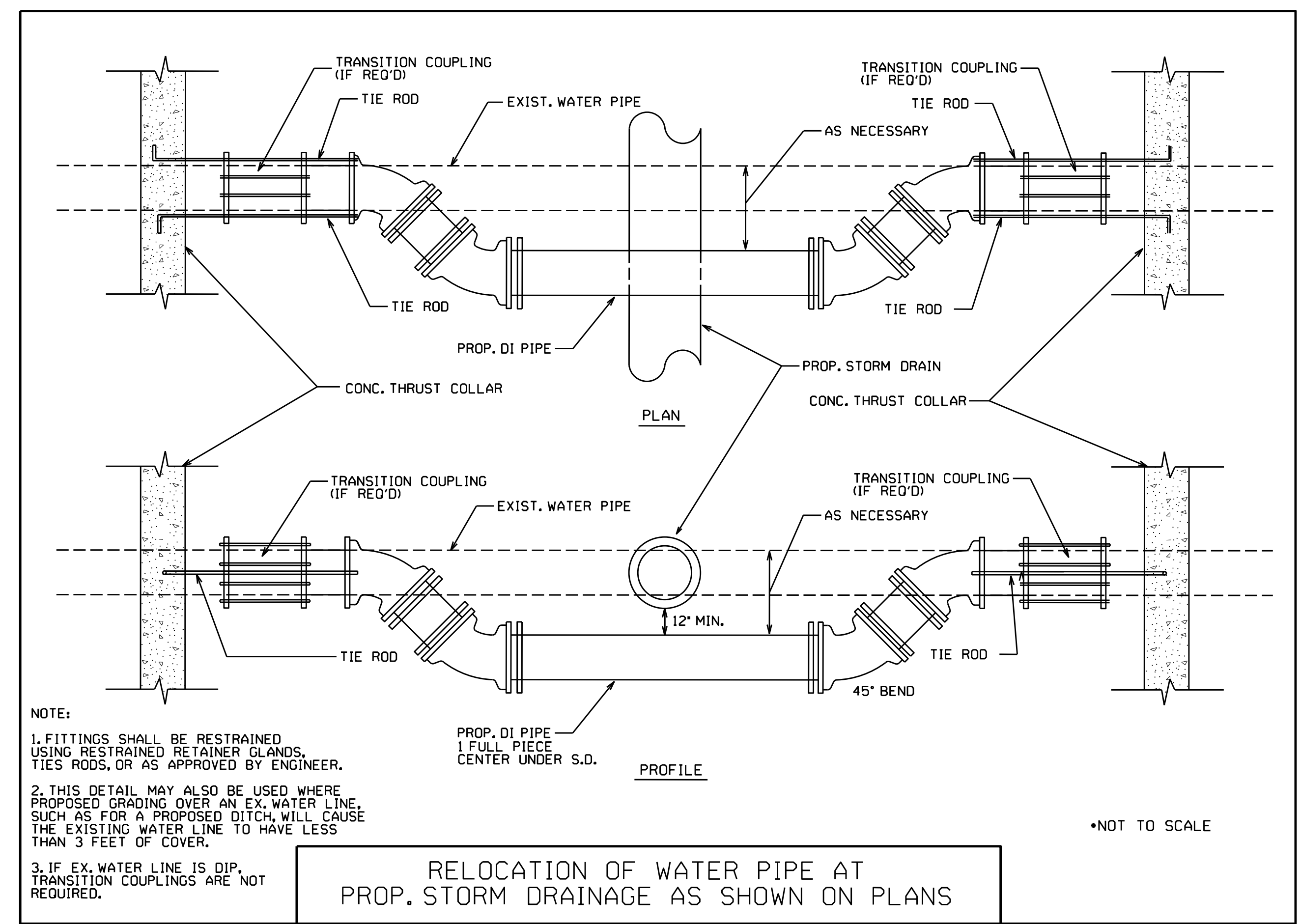


- NOTES:
1. ENCLOSE ENDS WITH BRICK MASONRY.
  2. PROVIDE 2" WEEP HOLE AT LOW END OF ENCASEMENT.
  3. SEE 2018 NCDOT STANDARD SPECIFICATIONS, DIVISION 15, SECTIONS 1540 AND 1550, FOR OTHER REQUIREMENTS.

TYPICAL ENCASEMENT PIPE SECTION  
N.T.S.

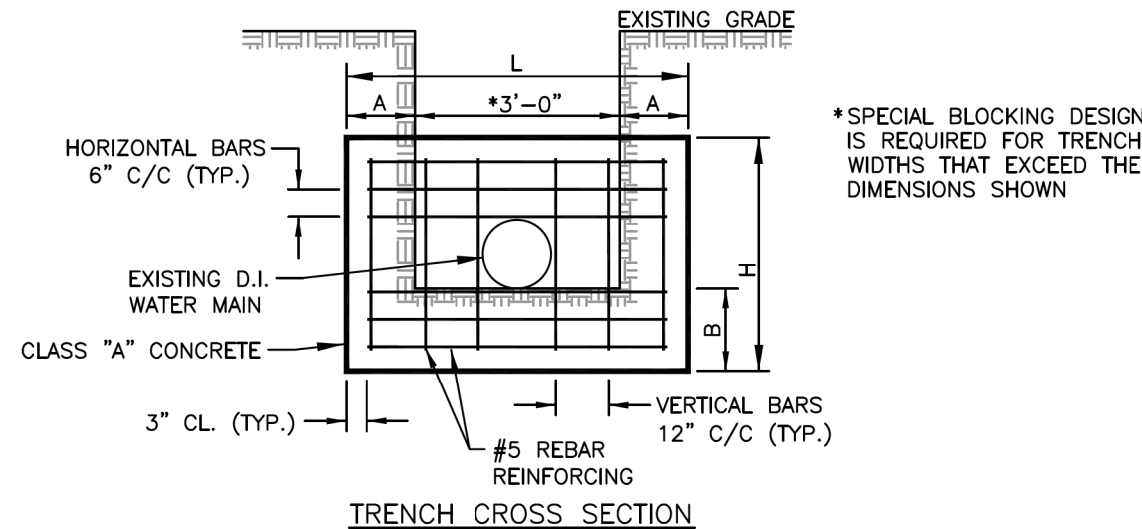
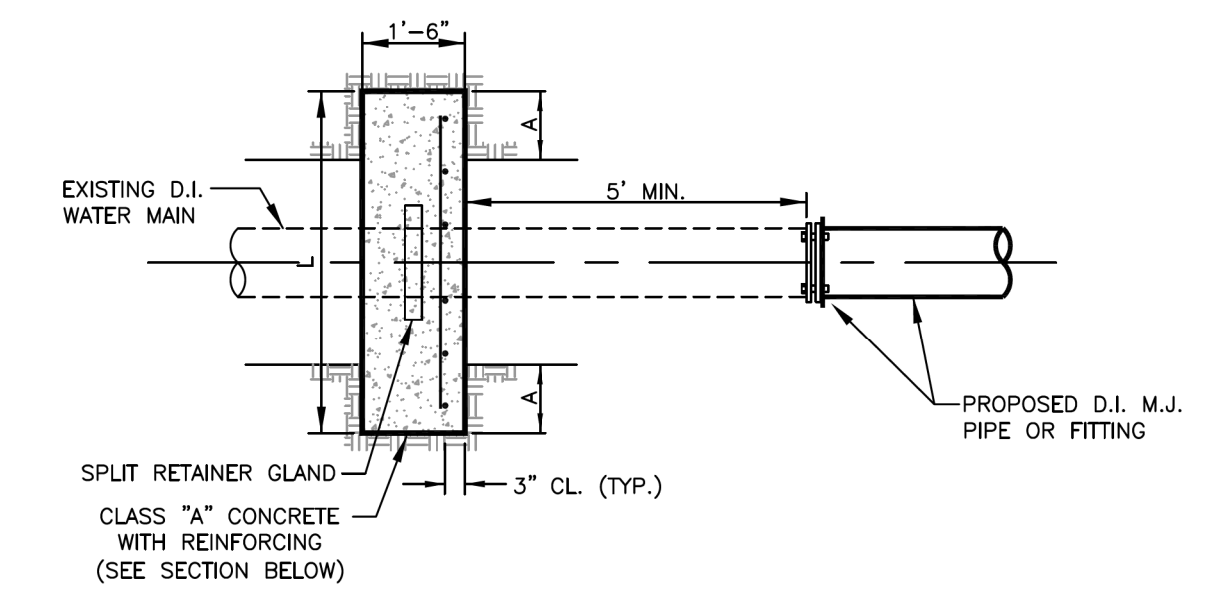
MAXIMUM TRENCH WIDTH AT TOP OF PIPE			
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		

REVISIONS



RELOCATION OF WATER PIPE AT PROP. STORM DRAINAGE AS SHOWN ON PLANS

THRUST COLLAR FOR EXISTING PIPE

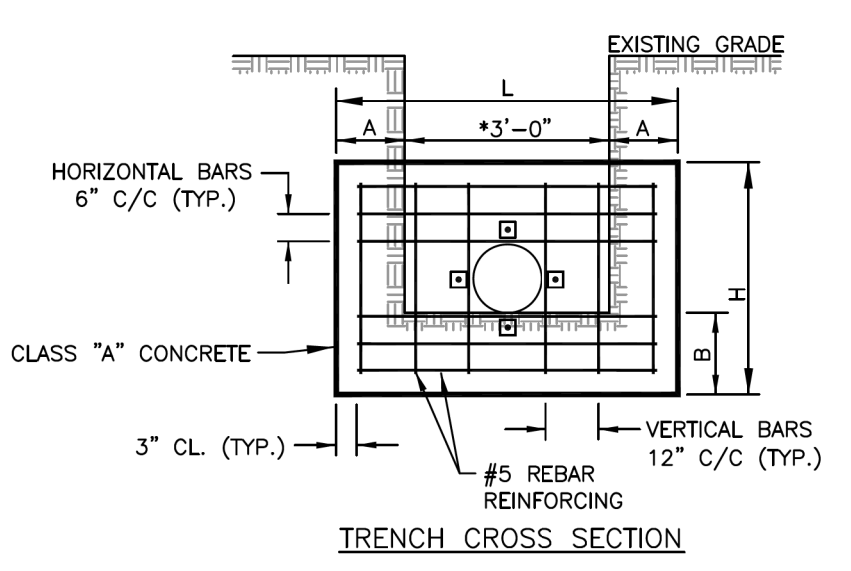
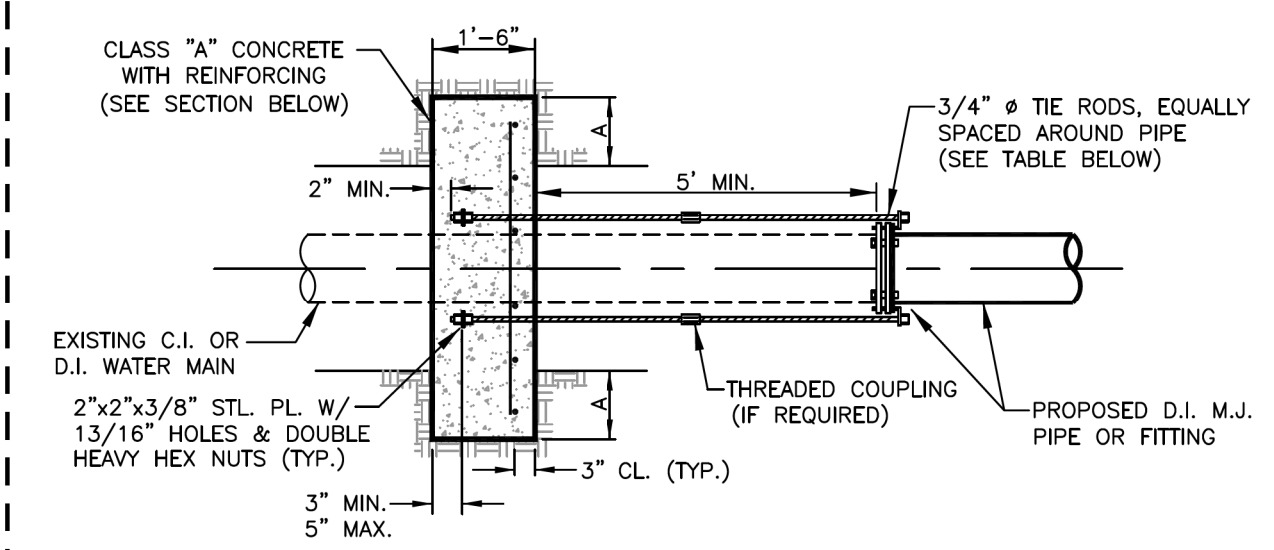


- NOTES:
1. CONCRETE SHALL BE PLACED AND CURED THREE DAYS PRIOR TO REMOVING EXISTING PIPE OR FITTINGS.
  2. INSTALL POLYETHYLENE WRAP AROUND EXISTING PIPE PRIOR TO POURING CONCRETE.
  3. MAINTAIN 2" CLEAR BETWEEN ALL REBARS AND PIPE.
  4. CONCRETE TO BE KEED IN TO UNDISTURBED SOIL ADJACENT TO TRENCH WALL AND BOTTOM.
  5. DESIGN BASED ON MIN. SOIL BEARING OF 2000 PSF. SOFT SOIL CONDITIONS MAY REQUIRE SPECIAL DESIGN.

PIPE SIZE (INCHES)	CONCRETE DIMENSIONS (FT)			
	H	L	A	B
6	2.5	5	1	1
8	2.5	5	1	1
12	4	6	1.5	1
16	4	9	3	1
20	5	10	3.5	1
24	5.5	12	4.5	1

CITY OF WINSTON-SALEM  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

THRUST HARNESS FOR EXISTING PIPE



PIPE SIZE (INCHES)	# OF RODS REQUIRED			
	H	L	A	B
6				2
8				2
12				4
16				6
20				8
24				12

- NOTES:
1. CONCRETE SHALL BE PLACED AND CURED THREE DAYS PRIOR TO REMOVING EXISTING PIPE OR FITTINGS.
  2. INSTALL POLYETHYLENE WRAP AROUND EXISTING PIPE PRIOR TO POURING CONCRETE.
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20	5	10	3.5	1
24	5.5	12	4.5	1

CITY OF WINSTON-SALEM  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

PROJECT REFERENCE NO. <b>U2579AB</b>	SHEET NO. <b>UC-3G</b>
DESIGNED BY: <b>APL</b>	
DRAWN BY: <b>RDL</b>	
CHECKED BY: <b>APL</b>	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 10/16/2021 UTILITY CONSTRUCTION PLANS ONLY	

**UTILITY CONSTRUCTION**  
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION PLANS PREPARED BY:

**DAVIS • MARTIN • POWELL**  
ENGINEERS & SURVEYORS

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