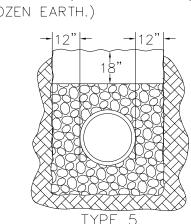


PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO A DEPTH OF 1/8 PIPE DIAMETER, 4" MINIMUM WITH BACKFILL COMPACTED TO TOP OF PIPE. (APPROXIMATELY 80 PERCENT STANDARD PROCTOR, AASHTO T-99)



PIPE BEDDED TO IT'S CENTERLINE IN COMPACTED GRANULAR MATERIAL, 4" MINIMUM UNDER PIPE. COMPACTED GRANULAR OR SELECT MATERIAL TO TOP OF PIPE (APPROXIMATELY 90 PERCENT STANDARD PROCTOR, AASTO T-99) (SELECT MATERIAL IS DEFINED AS NATIVE SOIL EXCAVATED FROM THE TRENCH, FREE OF ROCKS, ORGANIC MATERIAL, FOREIGN MATERIALS AND FROZEN EARTH)

- 1. FOR NORMAL PIPE SIZES 14 INCH AND LARGER, CONSIDERATION SHOULD BE GIVEN TO THE USE OF LAYING CONDITIONS OTHER THAN TYPE 1.
- 2. CONSIDERATION OF THE PIPE-ZONE EMBEDMENT CONDITIONS INCLUDED IN THIS FIGURE MAY BE INFLUENCED BY FACTORS OTHER THAN PIPE STRENGTH. FOR ADDITIONAL INFORMATION ON PIPE BEDDING AND BACKFILL, SEE ANSI/AWWA C600.

WATER MAIN EMBEDMENT DETAILS NOT TO SCALE

STANDARD CONCRETE VALVE COLLAR (IF NOT IN ASPHALT) (IF IN ASPHALT, VALVE BOX TO MATCH ASPHALT GRADE) FINISHED GRADE TAMPED BACKFILL -CAST IRON VALVE BOX -CAST IRON GATE VALVE STANDARD MJ GLANDS NOTE: RESTRAINT GLANDS MAY BE USED AS OPTION IF NEEDED TAMPED BACKFILL CONCRETE SUPPORT

INLINE VALVE DETAIL

NOT TO SCALE

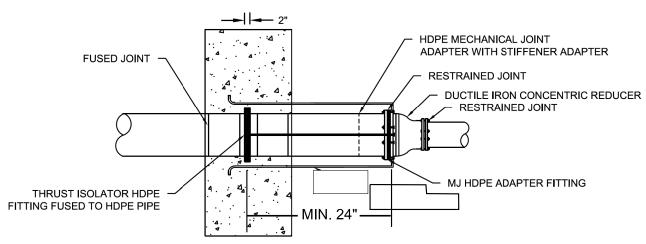
PLACE TRACER WIRE BOX AT INTERVALS WHERE VALVES DO NOT OCCUR & PLACE TRACER WIRE AT PIPE INTERSECTIONS, MULTIPLE VALVES, RUN WIRE UP AT ONLY IN BOX. — ONE VALVE. FINISHED GRADE TRACER WIRE BOX ----VALVE BOX TRACER WIRE BOX SINGLE 12 AWG SOLID CORE WIRE PIPELINE -GATE VALVE MASONRY BLOCK TRACER WIRE TO BE LAID UNDERNEATH WATER LINE

NOTES:

- I. PLACE TRACER WIRE IN TRACER WIRE BOX AS SHOWN.
- 2. NO UNDERGROUND SPLICING WILL BE ALLOWED. DO NOT SPLICE WIRE WHEN BEGINNING A NEW SPOOL. INSTEAD INSTALL A TRACER WIRE BOX AND ATTACH EACH WIRE TO THE BOX.
- 3. TRACER WIRE BOXES SHALL BE PLACED NO FARTHER THAN 400' APART

TYPICAL TRACER WIRE INSTALLATION DETAIL

NOT TO SCALE



SEE SEPARATE DETAIL FOR CONCRETE ANCHOR BLOCK

PROJECT REFERENCE NO.

HSN

PHONE: (919)707-6690 UTILITY CONSTRUCTIO FAX: (919)250-4151 PLANS ONLY

UTILITY CONSTRUCTION

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

R-5600

DESIGNED BY: **ELM**

CHECKED BY: MUP APPROVED BY: MUP

NORTH CAROLINA DEPARTMENT OF

TRANSPORTATION

UTILITIES ENGINEERING SEC

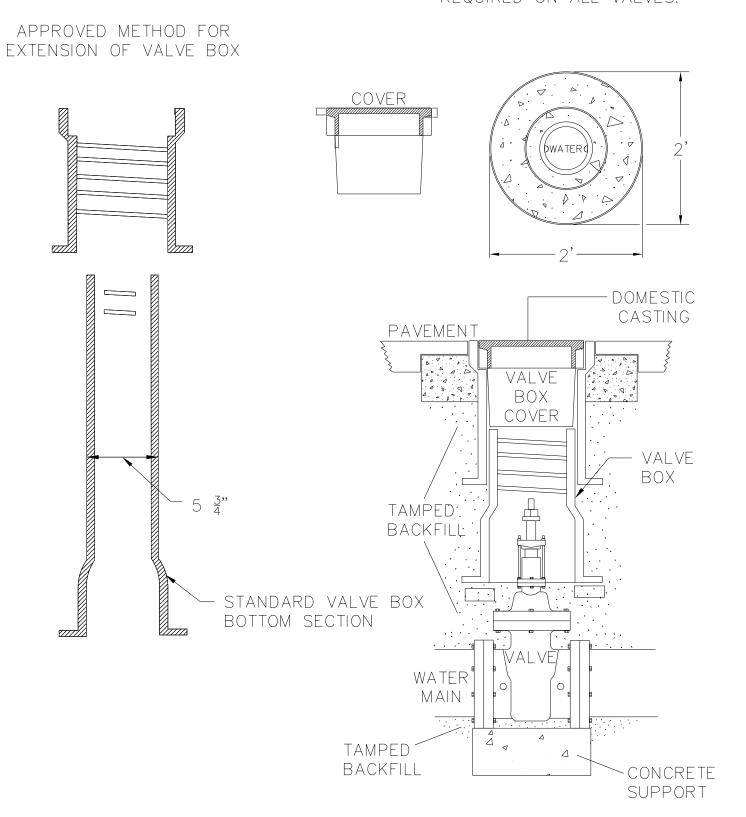
DRAWN BY:

REVISED:

SHEET NO.

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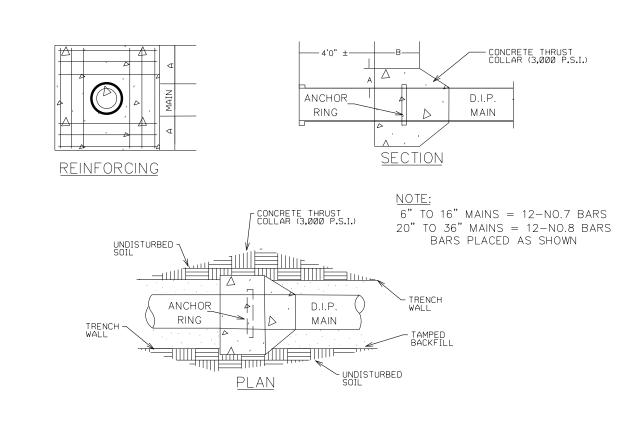
NOTE: CONCRETE VALVE COLLAR REQUIRED ON ALL VALVES.



VALVE BOX SHALL BE PER OWNER'S SPECIFICATIONS.

VALVE BOX INSTALLATION NOT TO SCALE

HDPE PIPE CONNECTION NOT TO SCALE



SCHEDULE				
PIPE DIAMETER	CONCRETE THRUST COLLAR		ANCHOR COLLAR	RINGS REQUIRED
	Α	В	С	
6", 8", 12"	1'-0''	1'-0"	2"	ONE
16"	1'-4"	1'-0"	2"	ONE
20"	1'-4"	1'-0"	3"	ONE
24"	1'-4"	1'-0"	3"	TWO
30"	1'-4"	1'-2"	4"	TWO
46"	1'-4"	1'-4''	4"	TWO

THRUST COLLAR INSTALLATION

NOT TO SCALE

