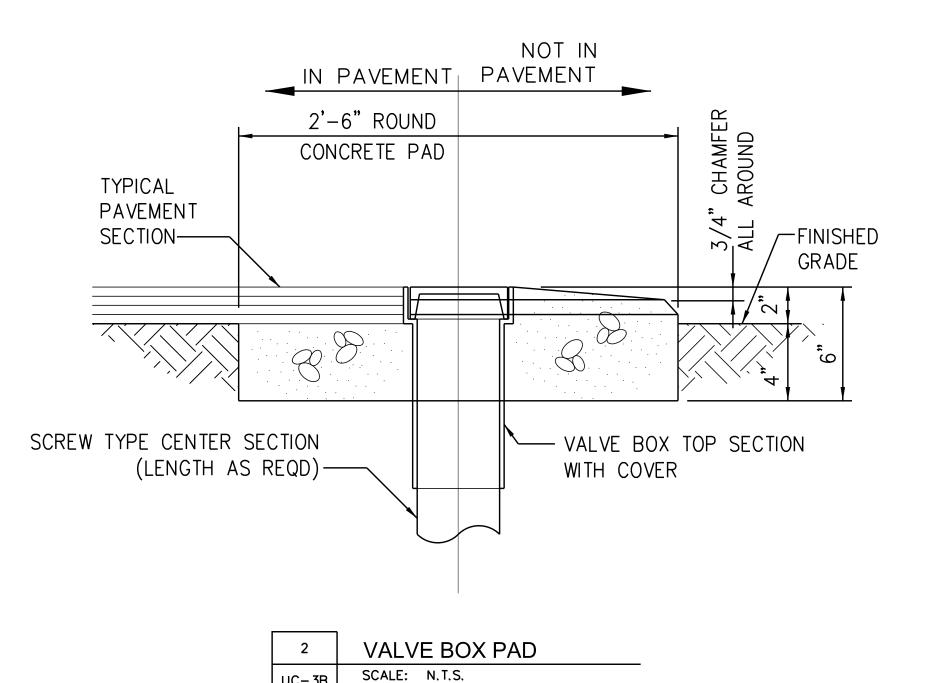
421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601

SHEET NO. PROJECT REFERENCE NO. UC-3B B-5534 DESIGNED BY: NLH CARO/// CDR DRAWN BY: CHECKED BY: CPM APPROVED BY: NLH 04#249il Hanze REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC.
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PLANS ONLY DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

UTILITY CONSTRUCTION



UC-3B

PROVIDE JOINT RESTRAINT — ─ MARKER TAPE USING WEDGE TYPE ENTIRE PIPELINE RESTRAINING GLAND/RING, (NO RADIAL BOLTS) FACTORY WELDED-ON-TRACER WIRE RETAINER RING, TYP. TAPED TO PIPE ENTIRE PIPELINE THRUST COLLAR, TYP. MIN 10 FT SPACING PER PLANS 10'-0" TYP.' ─ VALVE SUPPORT NOTES:

1. PROVIDE HDPE INSERTS IN ALL VALVE BOXES.

NOT IN

CAST IRON VALVE —

GATE VALVE -

BOX AND COVER

PAVEMENT IN PAVEMENT

— ASPHALT THICKNESS (VARIES)

24"x24"x6" (MIN.) CONCRETE PAD, TYP.

OR AS DIRECTED BY ENGINEER

TRACER WIRE LOOP

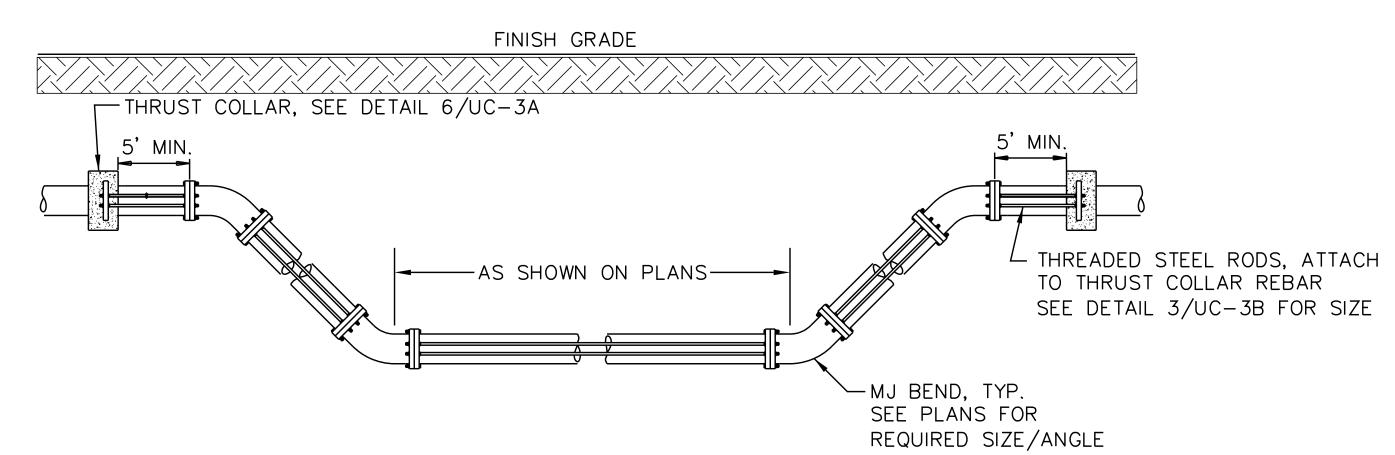
-STONE BASE

GATE VALVE ASSEMBLY (FOR 4" THRU 12" VALVES) SCALE: N.T.S. UC-3B

	DESIGN PRESSURE	
	200 PSI	
PIPE SIZE	ROD DIA	NUMBER
		REQ'D
4" TO 8"	3/4"	2
10" TO 20"	3/4"	4
24"	3/4"	6
30"	1"	6
36"	1"	8

- 1. THREADED RODS FOR PIPE DIAMETERS LARGER THAN 12" SHALL BE ASTM A193 (GRADE B7). ALL OTHER THREADED RODS SHALL BE ASTM A36.
- 2. RODS SHALL BE EQUALLY SPACED AROUND PIPE.

THREADED ROD SCHEDULE SCALE: N.T.S.



NOTES:

- 1. RODDING AND CONNECTING HARDWARE SHALL BE STAINLESS STEEL, HOT DIPPED GALVANIZED, OR COATED WITH MIN 2 COATS OF BITUMINOUS PAINT AFTER INSTALLATION.
- 2. CONCRETE SHALL NOT CONTACT OR OBSCURE MJ FITTINGS OR HARDWARE. 3. ALL PIPE AND FITTINGS BETWEEN THRUST COLLARS SHALL BE MECHANICALLY RESTRAINED.

STANDARD MJ VETICAL BEND SCALE: N.T.S.