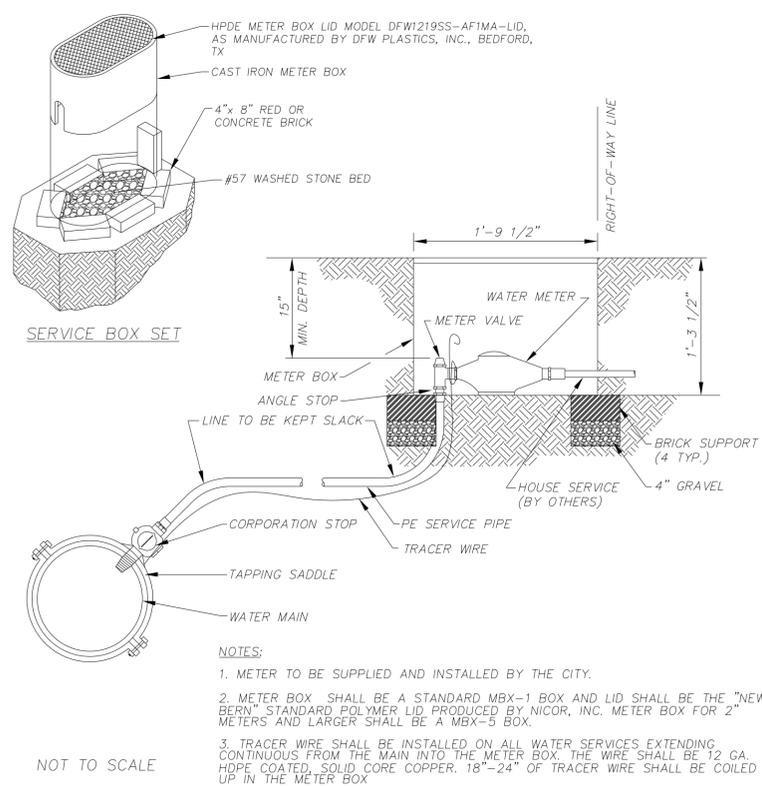


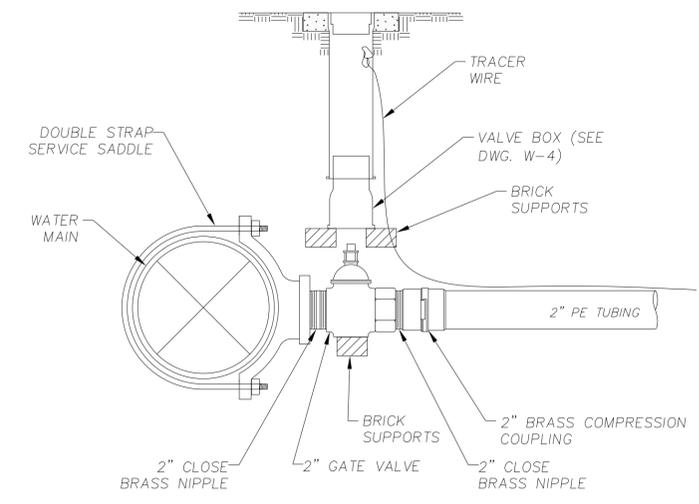
PROJECT REFERENCE NO.	SHEET NO.
R-5911	UC-3A
DESIGNED BY: MRD	
DRAWN BY: MRD	
CHECKED BY: JDN	
APPROVED BY: JDN	
REVISED:	2/21/2023
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED	



TYPICAL WATER SERVICE CONNECTION
STANDARD DRAWING NO. W-1

- NOTES:
- METER TO BE SUPPLIED AND INSTALLED BY THE CITY.
 - METER BOX SHALL BE A STANDARD MBX-1 BOX AND LID SHALL BE THE "NEW BERN" STANDARD POLYMER LID PRODUCED BY NICOR, INC. METER BOX FOR 2" METERS AND LARGER SHALL BE A MBX-5 BOX.
 - TRACER WIRE SHALL BE INSTALLED ON ALL WATER SERVICES EXTENDING CONTINUOUS FROM THE MAIN INTO THE METER BOX. THE WIRE SHALL BE 12 GA. HDPE COATED, SOLID CORE COPPER. 18"-24" OF TRACER WIRE SHALL BE COILED UP IN THE METER BOX.

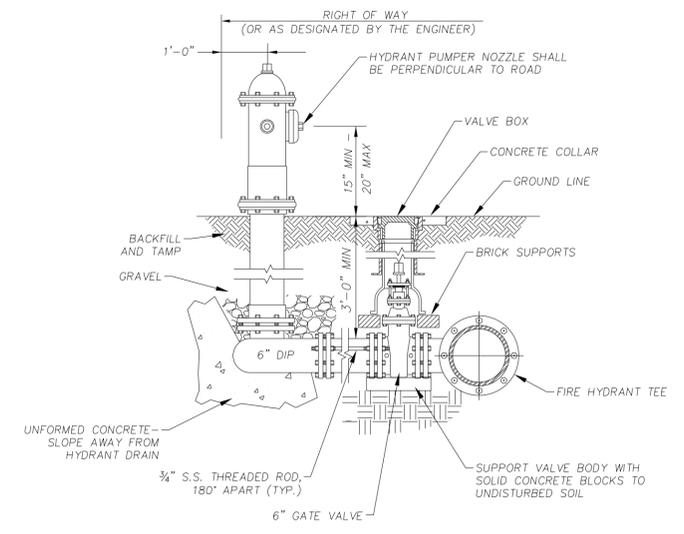
NOT TO SCALE



TYPICAL 2" WATER SERVICE CONNECTION
STANDARD DRAWING NO. W-2

- NOTES:
- METER TO BE SUPPLIED AND INSTALLED BY THE CITY.
 - METER BOX SHALL BE A STANDARD MBX-1 BOX AND LID SHALL BE THE "NEW BERN" STANDARD POLYMER LID PRODUCED BY NICOR, INC. METER BOX FOR 2" METERS AND LARGER SHALL BE A MBX-5 BOX.
 - TRACER WIRE SHALL BE INSTALLED ON ALL WATER SERVICES EXTENDING CONTINUOUS FROM THE MAIN INTO THE METER BOX. THE WIRE SHALL BE 12 GA. HDPE COATED, SOLID CORE COPPER. 18"-24" OF TRACER WIRE SHALL BE COILED UP IN THE METER BOX.

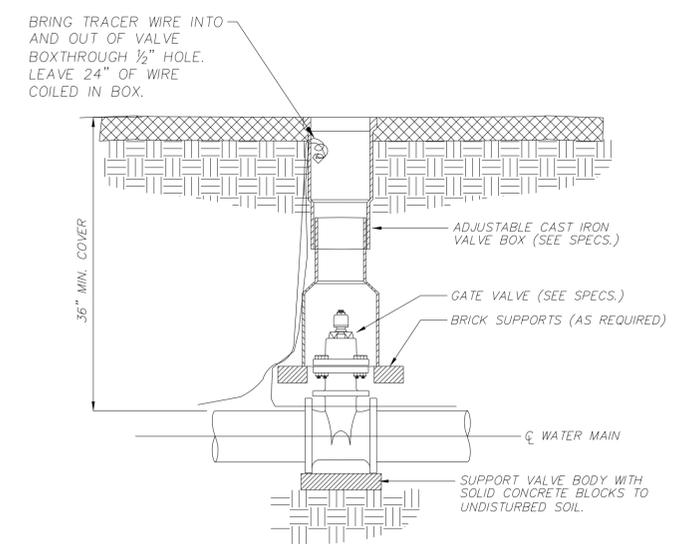
NOT TO SCALE



TYPICAL FIRE HYDRANT ASSEMBLY
STANDARD DRAWING NO. W-3

- NOTES:
- HYDRANT SHALL BE MUELLER MODEL NO. A421, OR AMERICAN-DARLING MODEL MK73-5, 4-1/2".
 - HYDRANT SHALL BE PROVIDED WITH STANDARD NEW BERN STORZ CONNECTION ON THE PUMPER NOZZLE.

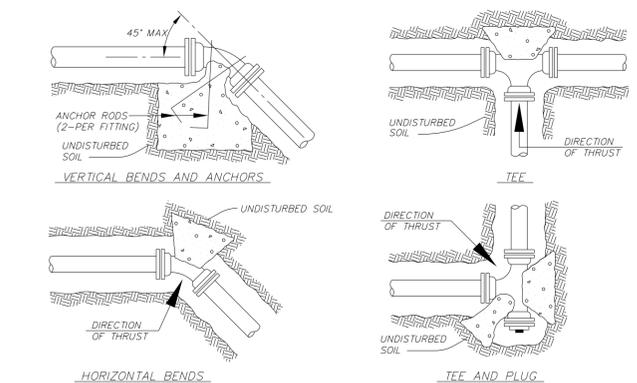
NOT TO SCALE



TYPICAL VALVE AND VALVE BOX
STANDARD DRAWING NO. W-4

- NOTES:
- PROVIDE PRECAST COLLAR FOR VALVES IN UNPAVED AREAS.

NOT TO SCALE

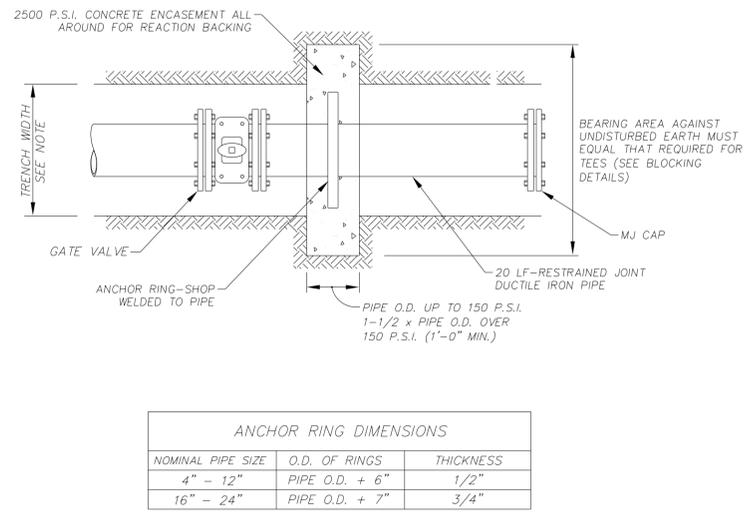


FITTING SIZE	CONCRETE THRUST BLOCKING SCHEDULE					CONCRETE SCHEDULE VERTICAL BENDS					ANCHOR ROD SIZE FOR VERTICAL BEND AND ANCHORS
	BEARING AREA IN SQUARE FEET					MIN. CU. YARDS CONCRETE					
	TEE/PLUG	90°	45°	22-1/2"	11-1/4"	90°	45°	22-1/2"	11-1/2"		
4"	1	2	1	1	1	1	1	1	1	1/2"	
6"	3	3	2	1	1	1	1	1	1		
8"	4	6	3	2	1	2	2	1	1	3/4"	
10"	7	9	5	3	2	3	3	2	1		
12"	9	12	7	4	2	5	3	2	1		
14"	12	17	9	5	3	6	4	3	2		
16"	16	22	12	6	3	8	6	3	2	7/8"	
18"	20	27	15	8	4	10	7	4	2		
20"	24	34	18	10	5	12	9	5	3		
24"	34	48	26	14	7	17	12	7	4	1-1/8"	
30"	53	75	41	21	11	27	19	10	5		
36"	77	108	59	30	15	38	27	15	8	1-3/8"	

- NOTES:
- MINIMUM BEARING AREA (IN SQUARE FEET) AGAINST UNDISTURBED TRENCH WALL OF SAND.
 - AREAS SHOWN ARE FOR 150 PSI TEST PRESSURE. IF TEST PRESSURE IS OTHER THAN 150 PSI, ADJUST AREA OF REACTION BACKING IN DIRECT PROPORTION.
 - OTHER SOIL CONDITIONS:
 - CEMENTED SAND OR HARDPAN - MULTIPLY ABOVE BY 0.5
 - GRAVEL OR HARD DRY CLAY - MULTIPLY ABOVE BY 0.7
 - SOFT CLAY - MULTIPLY ABOVE BY 2.0
- MUCK: SECURE ALL FITTINGS WITH APPROVED HARNESS OR TIE ROD CLAMPS, WITH CONCRETE REACTION BACKING THE SAME AS LISTED FOR SAND CONDITIONS.

NOT TO SCALE

THRUST BLOCKING AND ANCHORING SCHEDULE
STANDARD DRAWING NO. W-5



ANCHOR RING DIMENSIONS		
NOMINAL PIPE SIZE	O.D. OF RINGS	THICKNESS
4" - 12"	PIPE O.D. + 6"	1/2"
16" - 24"	PIPE O.D. + 7"	3/4"

NOT TO SCALE

TYPICAL THRUST COLLAR DETAIL
STANDARD DRAWING NO. W-6

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