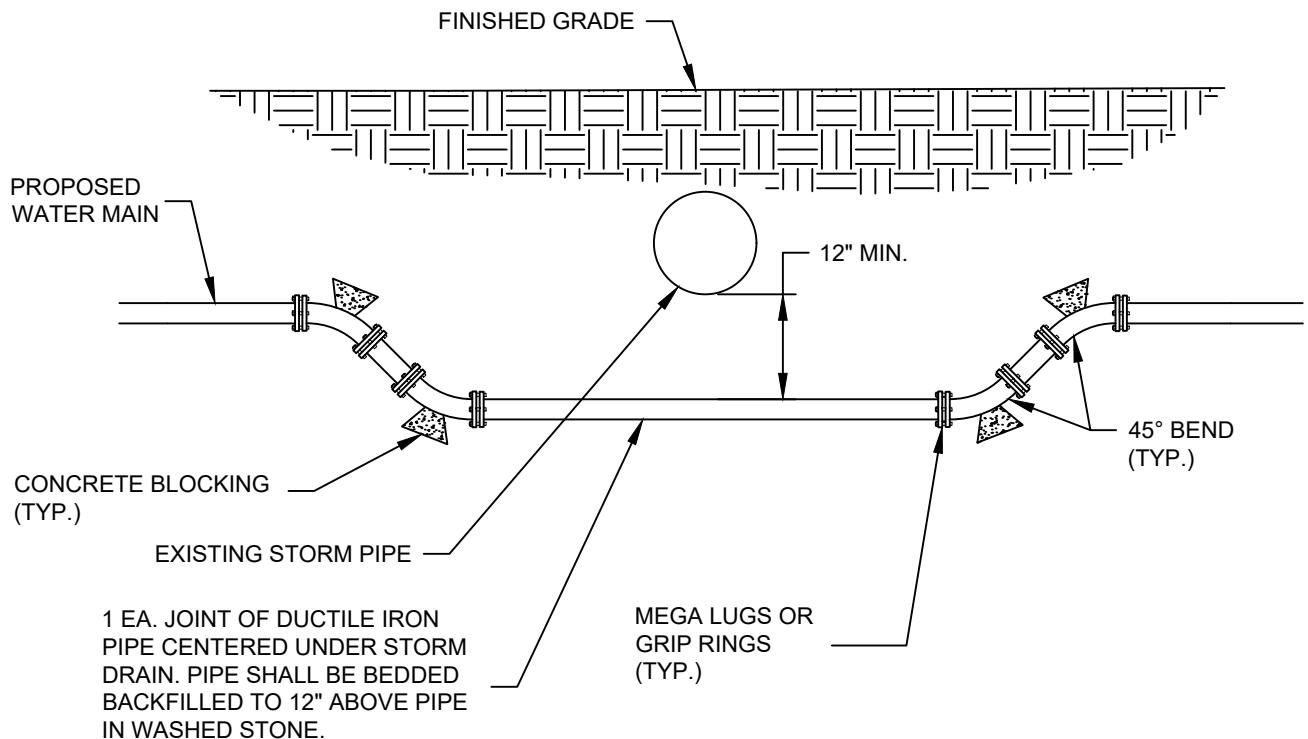


NOTE:

PROPOSED WATER MAINS SHALL BE DUCTILE IRON PIPE AT ALL AREAS WHERE MIN. CLEARANCES CANNOT BE MAINTAINED. INSTALL AT LEAST ONE JOINT CENTERED OVER CROSSING.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	WATER MAIN CROSSINGS	STD NO. PW-1
DATE	DESCRIPTION			



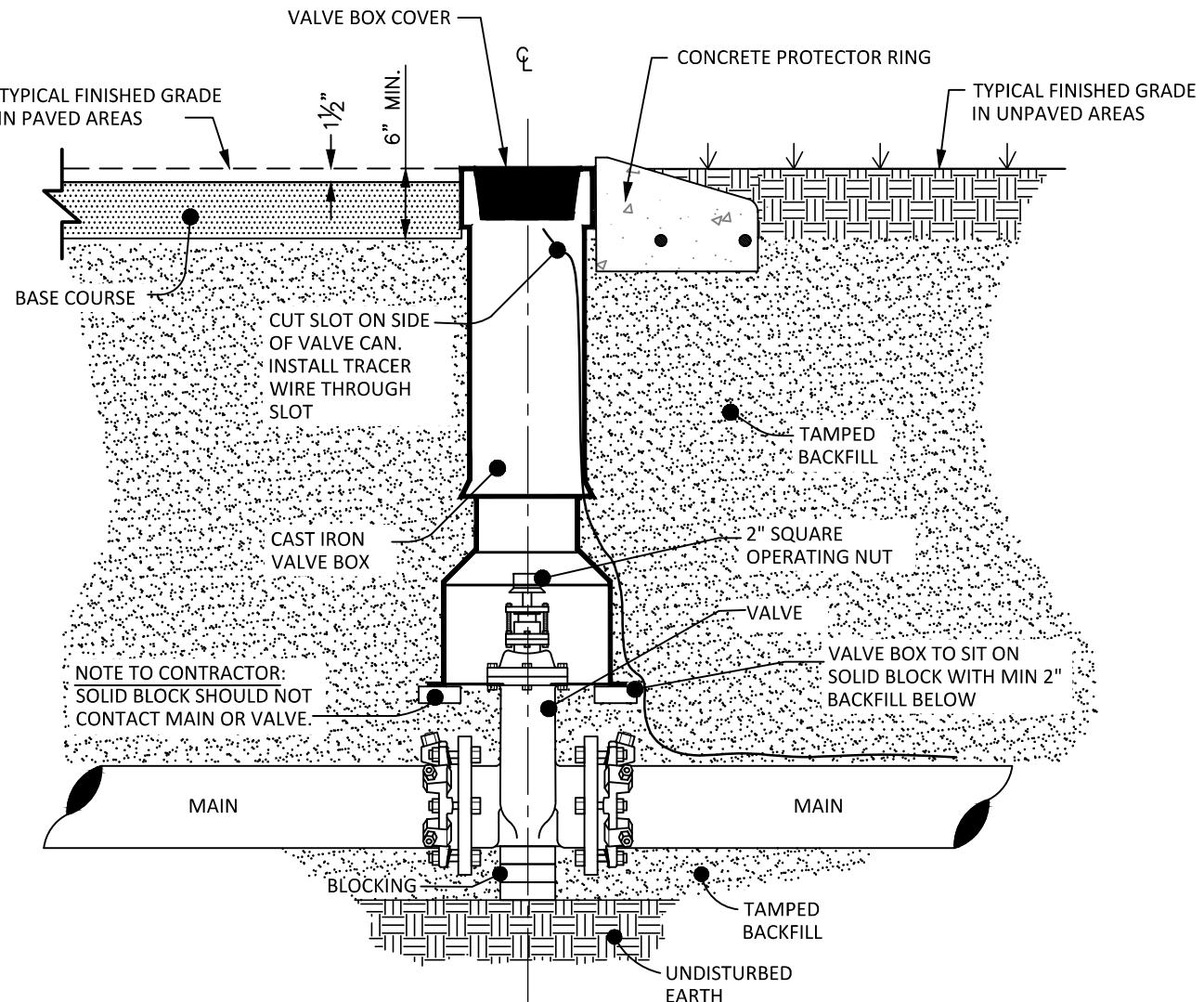
REVISED

DATE	DESCRIPTION

MOORE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

LARGE PIPE CROSSING

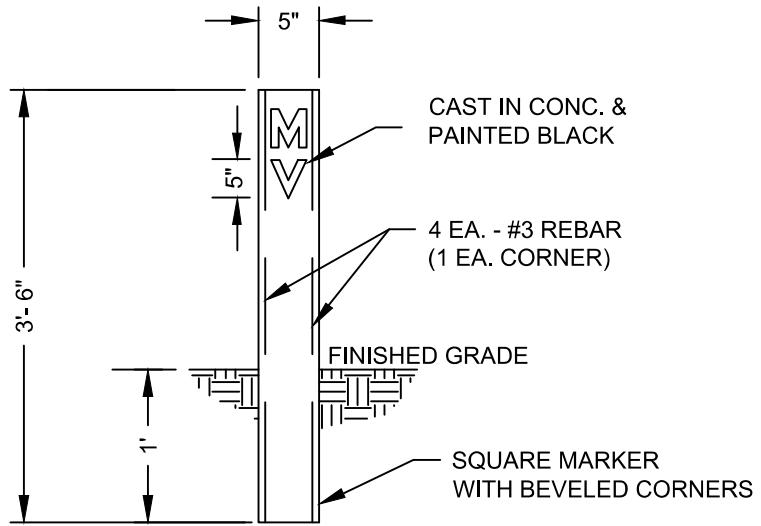
STD NO.
PW-2



NOTES:

1. ONLY MANUFACTURED VALVE BOX EXTENSIONS SHALL BE ALLOWED.
2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 4' (ft.) FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
3. PRECAST CONCRETE ENCASEMENT IS REQUIRED OUTSIDE OF PAVED AREAS.
4. CONCRETE PROTECTOR RING MAY BE USED IN LIEU OF ENCASEMENT IN UNPAVED AREAS.
5. ALL VALVES SHALL BE PLACED ON 4" THICK 8"X12" CONCRETE BLOCKS.

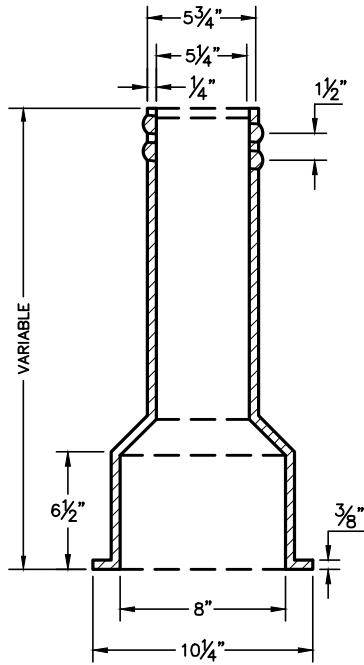
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	VALVE AND VALVE BOX INSTALLATION	STD NO. PW-3
DATE	DESCRIPTION			



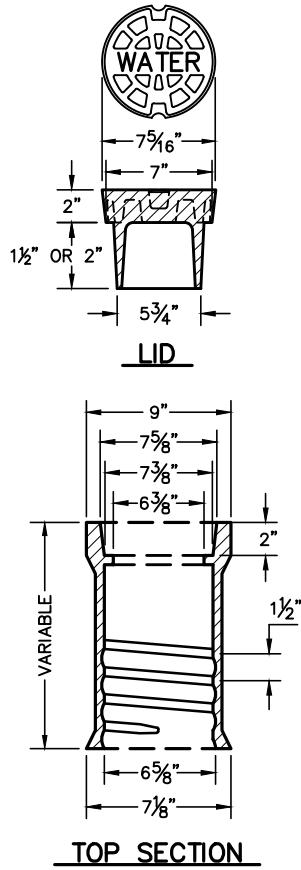
NOTES:

1. VALVE MARKERS SHALL BE PLACED AT R/W.
2. LETTERS SHALL FACE TOWARDS VALVE.
3. MARKER SHALL HAVE BRASS OR BRONZE EMBED ON TOP OR SIDE.
4. CONTRACTOR SHALL STAMP DISTANCE TO CENTER OF VALVE INTO EMBED.
5. MAIN LINE VALVES SHALL HAVE MARKER WITH "MV" CASTED IN IT.
6. BLOW-OFF ASSEMBLY SHALL INCLUDE MARKER W/ "BO" CASTED IN IT.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	VALVE MARKER	STD NO. PW-4
DATE	DESCRIPTION			
02/24/2022	BURIAL LENGTH			

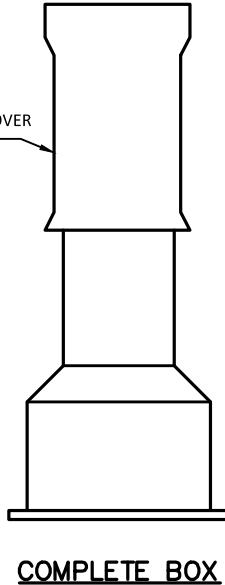


BOTTOM SECTION



TOP SECTION

BOX SHALL BE CENTERED OVER VALVE



COMPLETE BOX

DIMENSIONS IN INCHES	
LENGTH	
TOP	BOTTOM
10	15
10	24
16	24
16	36
26	36
26	48
26	60

NOTE: PVC RISERS ARE NOT ALLOWED

REVISED

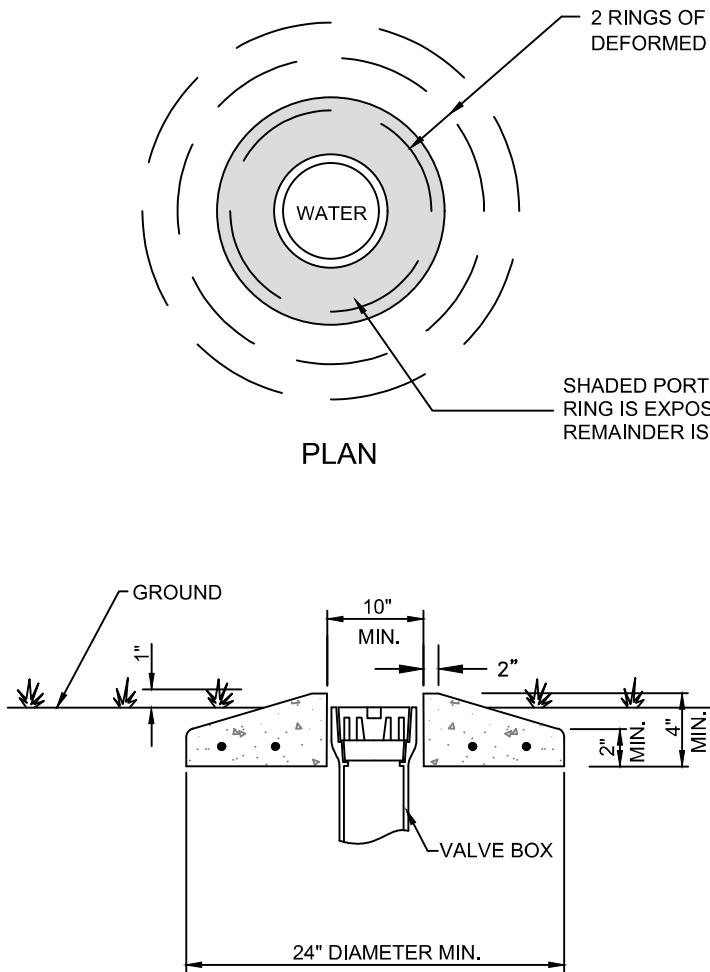
DATE DESCRIPTION

MOORE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

VALVE BOX

STD NO.

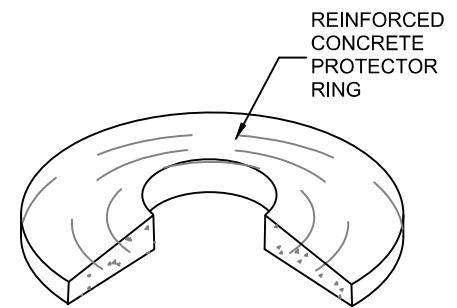
PW-5



2 RINGS OF #3 REINFORCING
DEFORMED BAR AS SHOWN

SHADED PORTION OF
RING IS EXPOSED
REMAINDER IS BURIED

PLAN

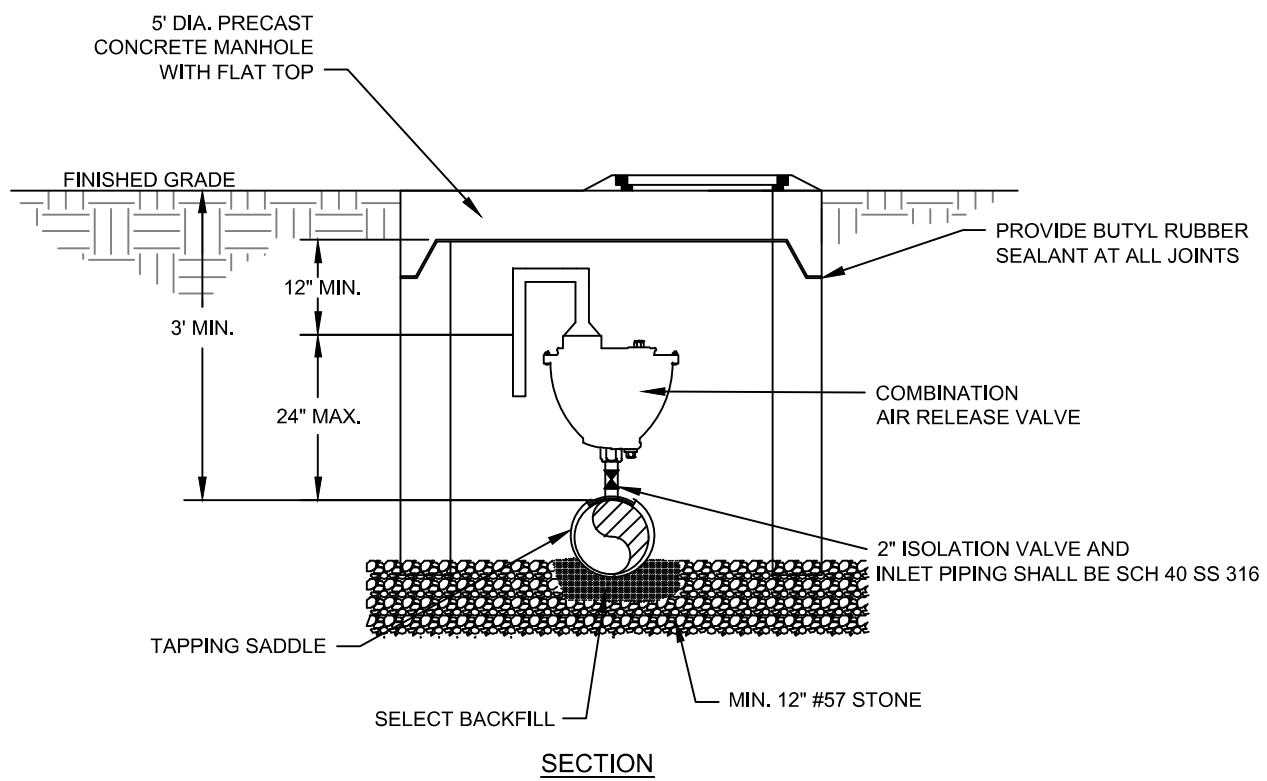
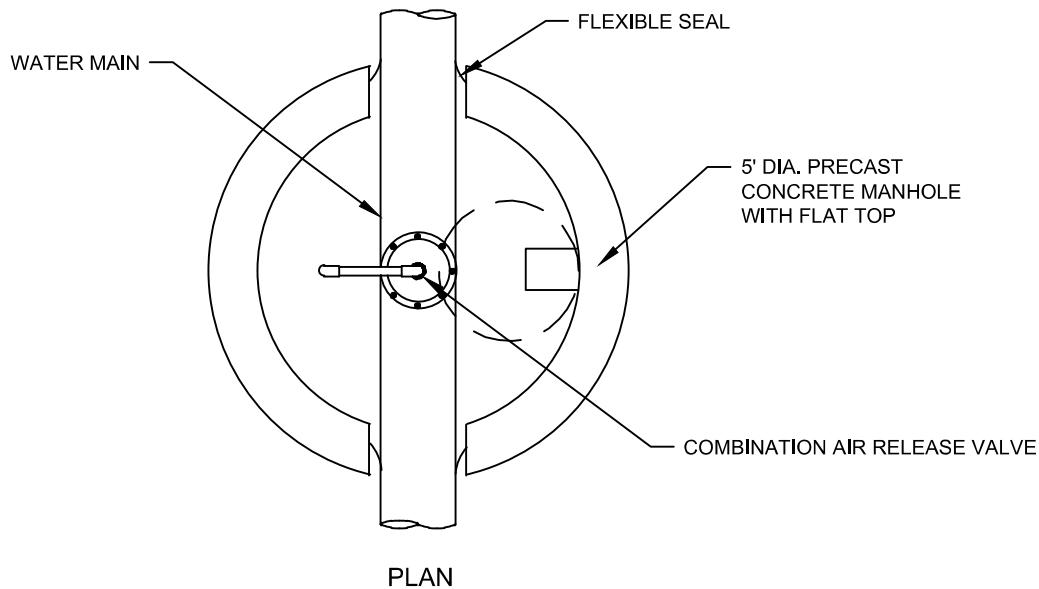


CUT AWAY VIEW
N.T.S.

NOTES:

1. CONCRETE PROTECTOR RING SHALL BE 3000 P.S.I. PRECAST REINFORCED CONCRETE.

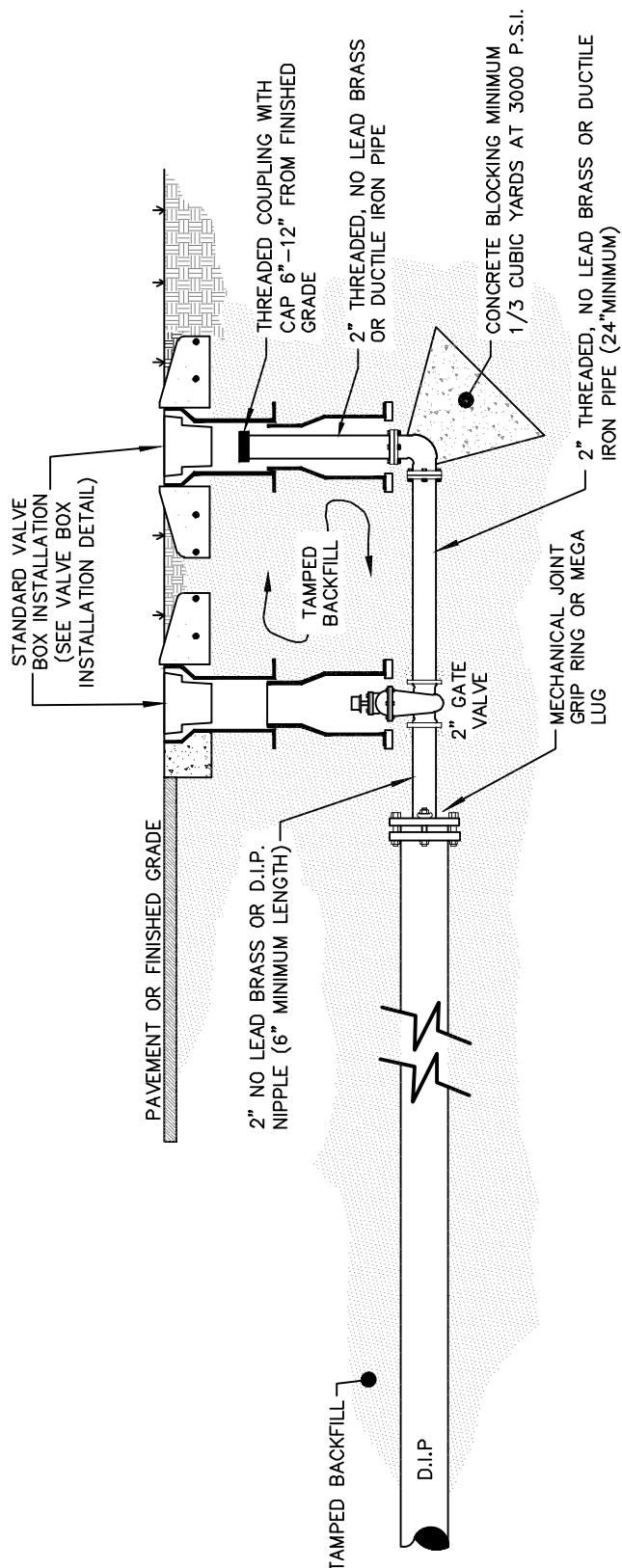
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	CONCRETE PROTECTOR RING	STD NO. PW-6
DATE	DESCRIPTION			



NOTES:

1. MAIN SHALL BE DUCTILE IRON PIPE 10 FT. CENTERED ACROSS MANHOLE
2. AIR VALVE ASSEMBLY SHALL BE: ARI, OR EQUAL.
3. MANHOLE COVER SHALL HAVE "WATER" STAMPED ON TOP WITH RAISED LETTERS.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	AIR RELEASE VALVE MANHOLE OVER WATER MAIN	STD NO. PW-7
DATE	DESCRIPTION			



REVISED

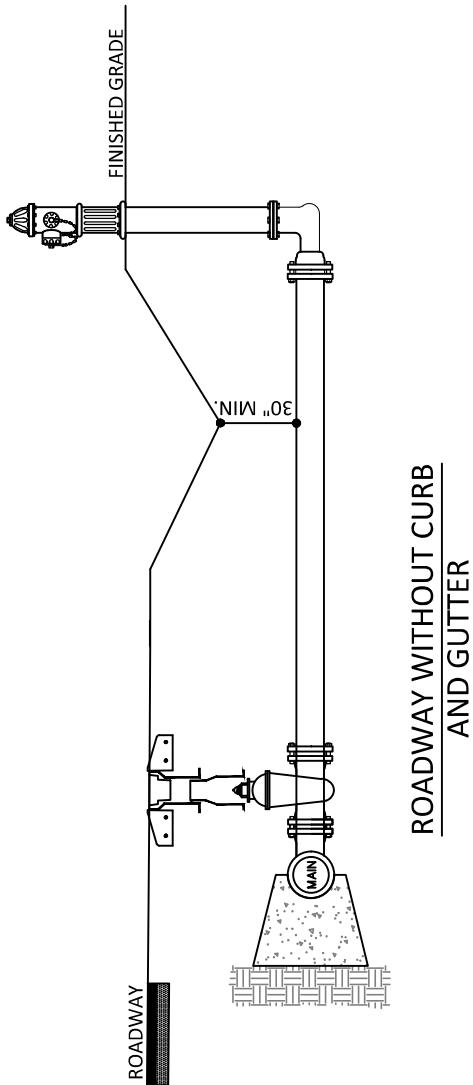
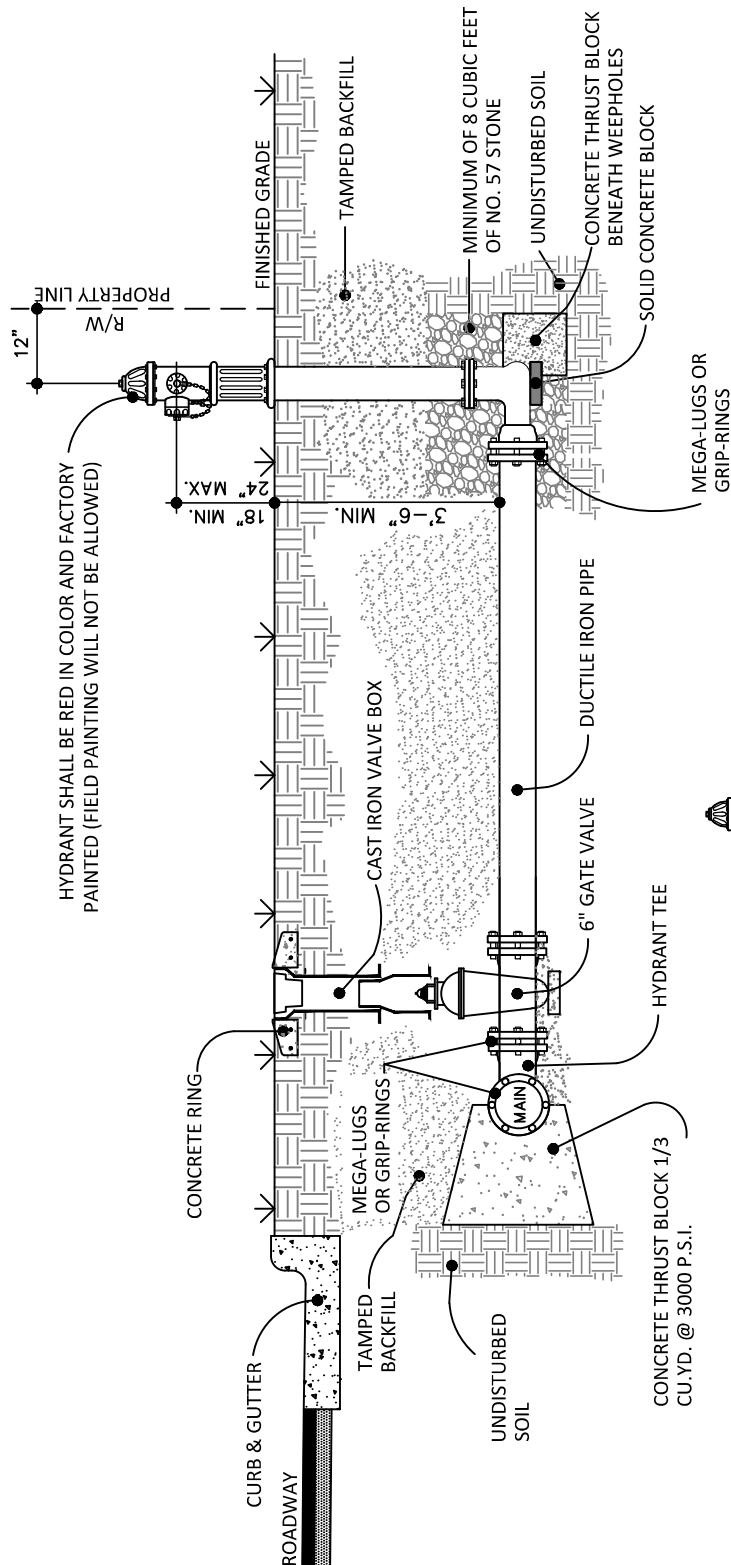
DATE DESCRIPTION

MOORE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

2" BLOWOFF ASSEMBLY

STD NO.

PW-8



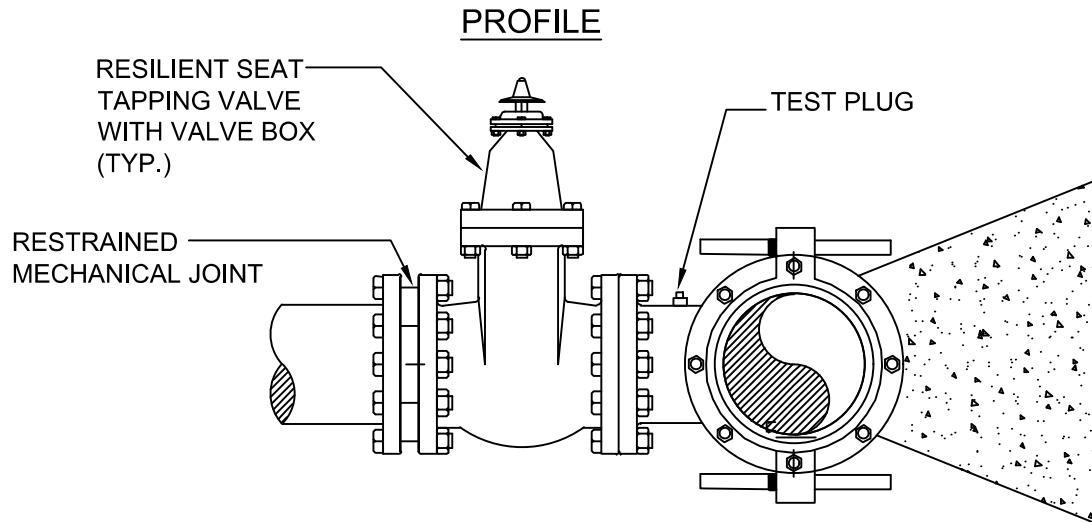
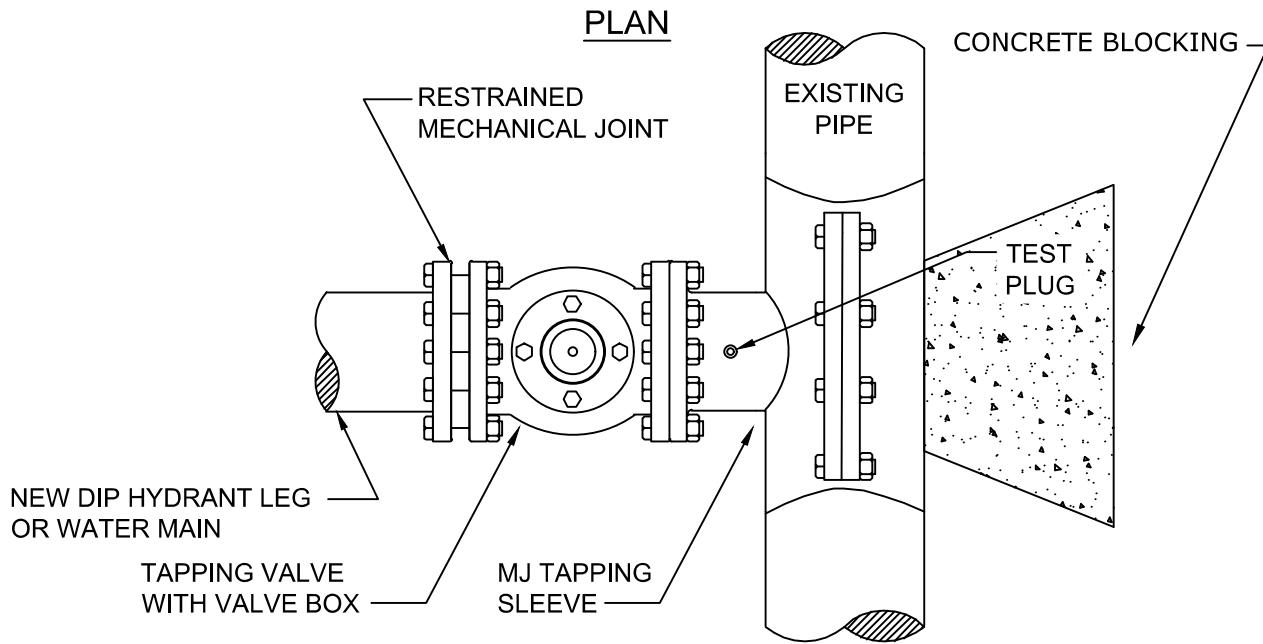
ROADWAY WITHOUT CURB
AND GUTTER

REVISED	
DATE	DESCRIPTION

MOORE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

HYDRANT ASSEMBLY

STD NO.
PW-9



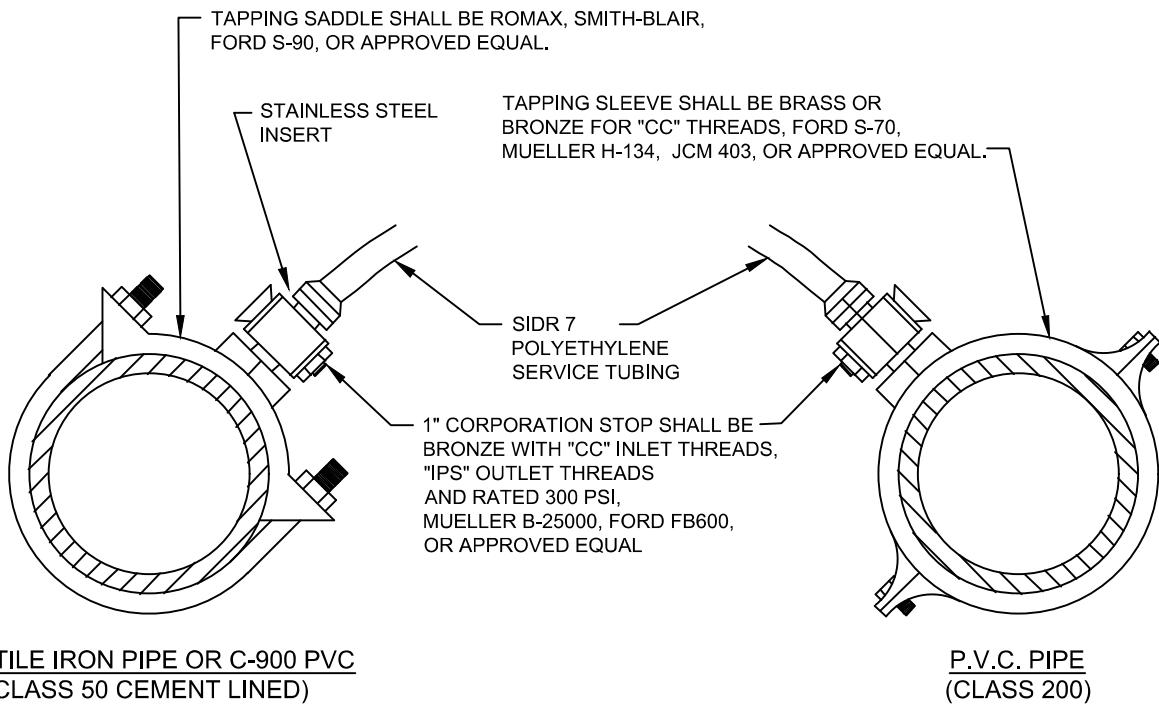
NOTES:

1. TAPPING SLEEVE SHALL BE FABRICATED OF TYPE 304 S.S. AND PROVIDE A 360° SEAL AROUND EXISTING PIPE WITH FULL CIRCUMFERENTIAL GASKET.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	TAPPING SLEEVE & VALVE ASSEMBLY	STD NO. PW-10
DATE	DESCRIPTION			

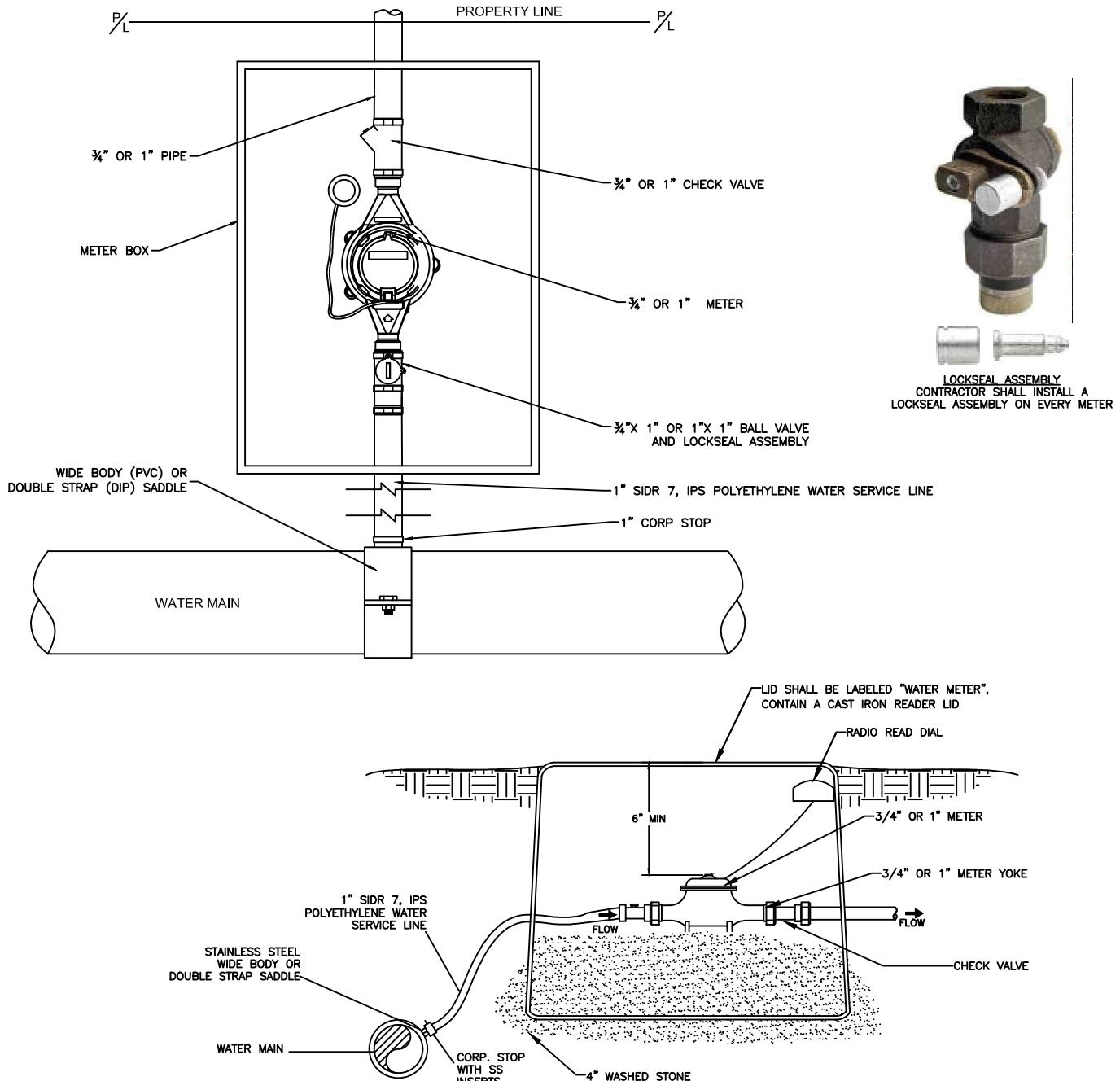
NOTE:

ALL TAPS 2" AND SMALLER SHALL BE MADE WITH TAPPING SADDLE. ALL TAPS LARGER THAN 2" SHALL BE MADE WITH TAPPING SLEEVE AND VALVE. NO DIRECT TAPS SHALL BE MADE.



NOTE: ALL TAPS TO BE MADE ON TOP QUARTER OF MAIN.

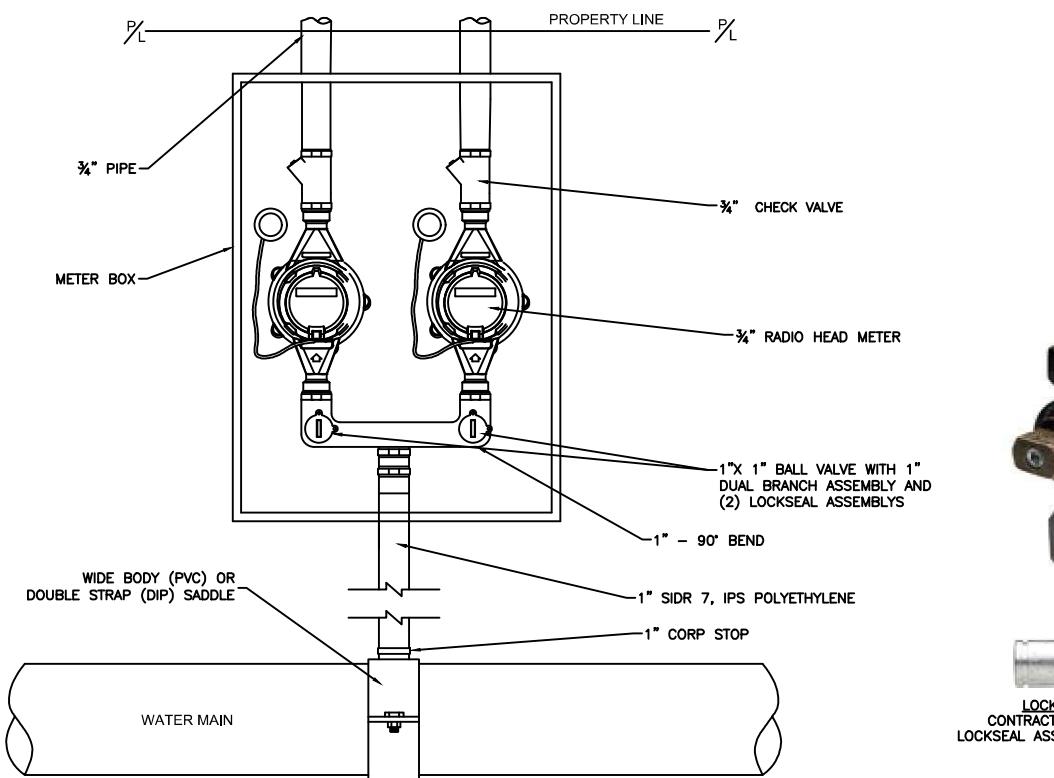
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	WATER TAP	STD NO. PW-11
DATE	DESCRIPTION			



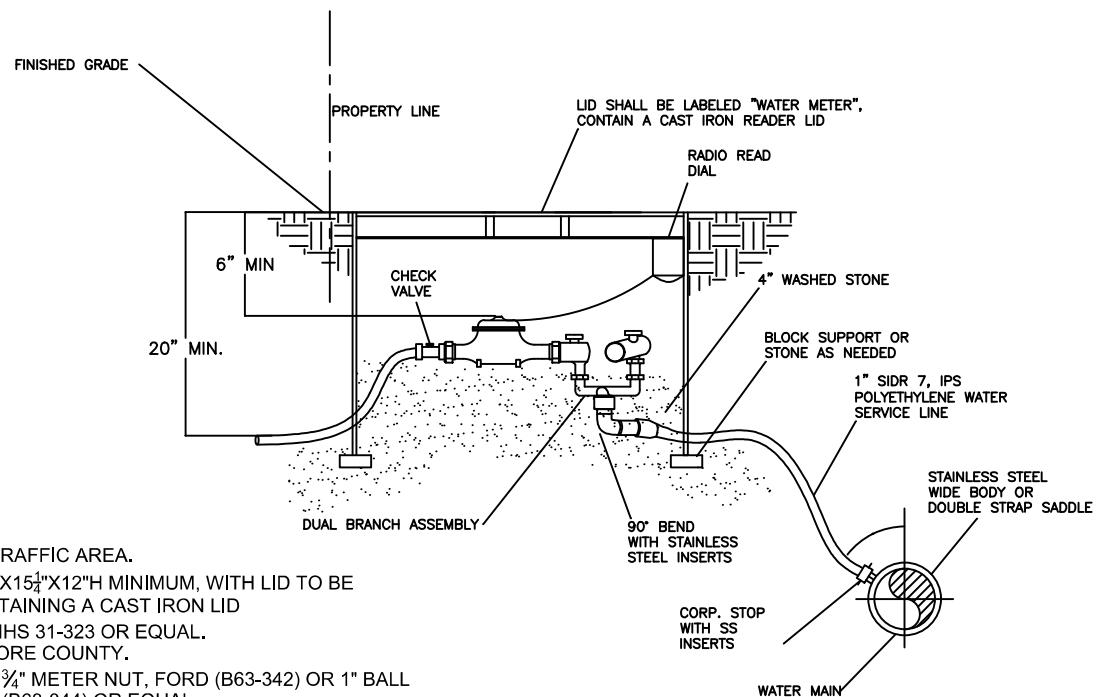
NOTES:

1. METER TO BE PLACED IN NON-TRAFFIC AREA.
2. PLASTIC METER BOX TO BE $21\frac{1}{4}'' \times 15\frac{1}{4}'' \times 12''$ H MINIMUM, WITH LID TO BE LABELED "WATER METER", CONTAINING A CAST IRON LID
3. CHECK VALVE TO BE $\frac{1}{4}$ " FORD HHS 31-323 OR 1" FORD HHS 31-344 OR EQUAL.
4. METER TO BE SUPPLIED BY MOORE COUNTY.
5. VALVE TO BE 1" BALL VALVE BY $\frac{1}{4}$ " METER NUT, FORD (B63-342) OR 1" BALL VALVE BY 1" METER NUT, FORD (B63-344) OR EQUAL.
6. CORP STOP TO BE 1", FORD 1001-4, OR EQUAL.
7. PLUMBER TO INSTALL $\frac{1}{4}$ " OR 1" PIPE FROM CHECK VALVE.
8. MCPW TO INSTALL $\frac{1}{4}$ " OR 1" CHECK VALVE AND $\frac{1}{4}$ " OR 1" METER.
9. MCPW OR CONTRACTOR, AT NEW INSTALLATIONS, TO INSTALL BALL VALVE WITH METER NUT, 1" PIPE, 1" CORP STOP AND SADDLE.
10. STAINLESS STEEL (SS) INSERTS AT CORP STOP & BENDS.
11. METER BOX SHALL HAVE AT LEAST A 3' ALLOWANCE FROM ANY OBSTRUCTIONS.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	SINGLE $\frac{1}{4}$ " OR 1" WATER METER SERVICE	STD NO. PW-12
DATE	DESCRIPTION			
06-19-2023	REMOVED TEXT "DOUBLE" ON CHECK VALVE			



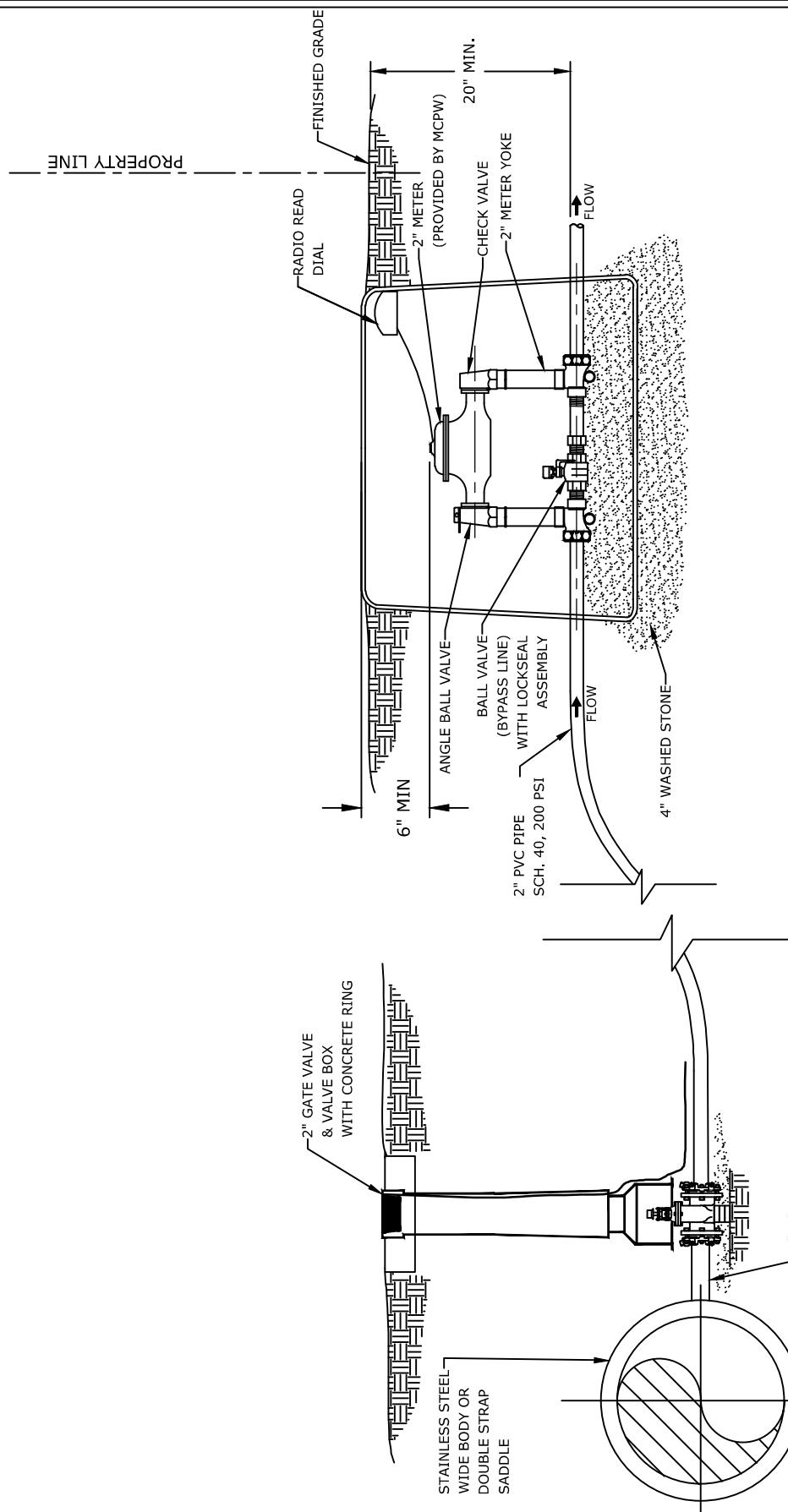
LOCKSEAL ASSEMBLY
CONTRACTOR SHALL INSTALL A
LOCKSEAL ASSEMBLY ON EVERY METER



NOTES:

1. METER TO BE PLACED IN NON-TRAFFIC AREA.
2. PLASTIC METER BOX TO BE 21 $\frac{1}{4}$ "X15 $\frac{1}{4}$ "X12"H MINIMUM, WITH LID TO BE LABELED "WATER METER", CONTAINING A CAST IRON LID
3. CHECK VALVE TO BE 1/4" FORD HHS 31-323 OR EQUAL.
4. METER TO BE SUPPLIED BY MOORE COUNTY.
5. VALVE TO BE 1" BALL VALVE BY 1/4" METER NUT, FORD (B63-342) OR 1" BALL VALVE BY 1" METER NUT, FORD (B63-344) OR EQUAL.
6. CORP STOP TO BE 1", FORD 1001-4, OR EQUAL.
7. PLUMBER TO INSTALL 1/4" PIPE FROM CHECK VALVE.
8. MCPW TO INSTALL 1/4" CHECK VALVE AND 1/4" METER.
9. MCPW OR CONTRACTOR, AT NEW INSTALLATIONS, TO INSTALL BALL VALVE WITH METER NUT, 1" PIPE, 1" CORP STOP AND SADDLE.
10. STAINLESS STEEL (SS) INSERTS AT CORP STOP & BENDS.
11. METER BOX SHALL HAVE AT LEAST A 3' ALLOWANCE FROM ANY OBSTRUCTIONS.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	DUAL 1/4" WATER METER SERVICE	STD NO. PW-13
DATE	DESCRIPTION			



LOCKSEAL ASSEMBLY
CONTRACTOR SHALL INSTALL A
LOCKSEAL ASSEMBLY ON EVERY METER

NOTES:

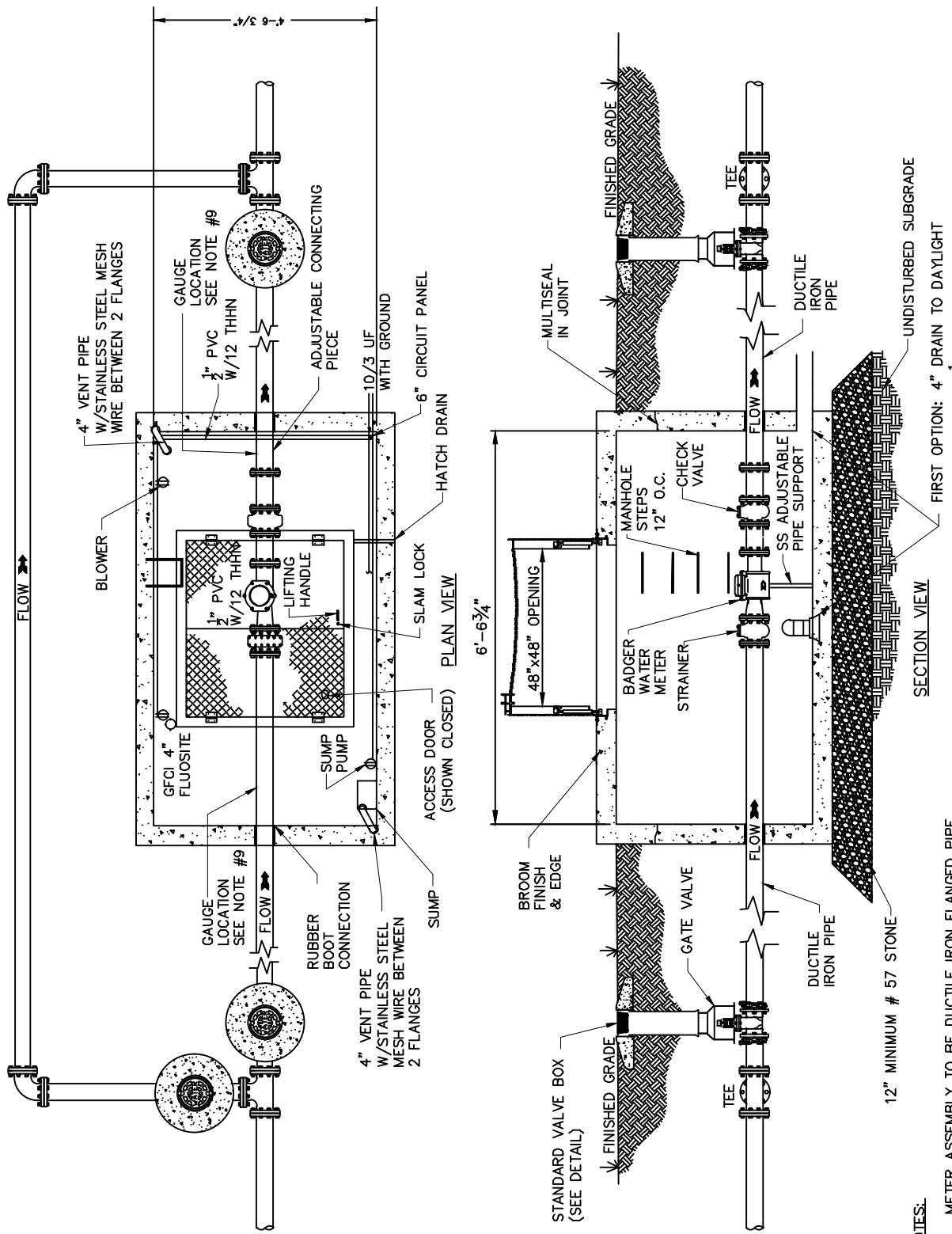
1. METER BOX TO BE PLACED IN A NON-TRAFFIC AREA.
2. PLASTIC METER BOX TO BE 40-1/2" (TOP 32-1/2") x 27-3/4" x 19-3/4" (H) WITH LID CONTAINING A CAST IRON READER LID WITH "WATER METER" CAST IN LID
3. BADGER 2" METER LENGTH IS 15-1/2".
4. BACKFLOW PREVENTOR IS REQUIRED ON CUSTOMER SIDE OF METER.
5. METER BOX SHALL HAVE AT LEAST 3' ALLOWANCE FROM ANY OBSTRUCTIONS.

REVISED	
DATE	DESCRIPTION

MOORE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

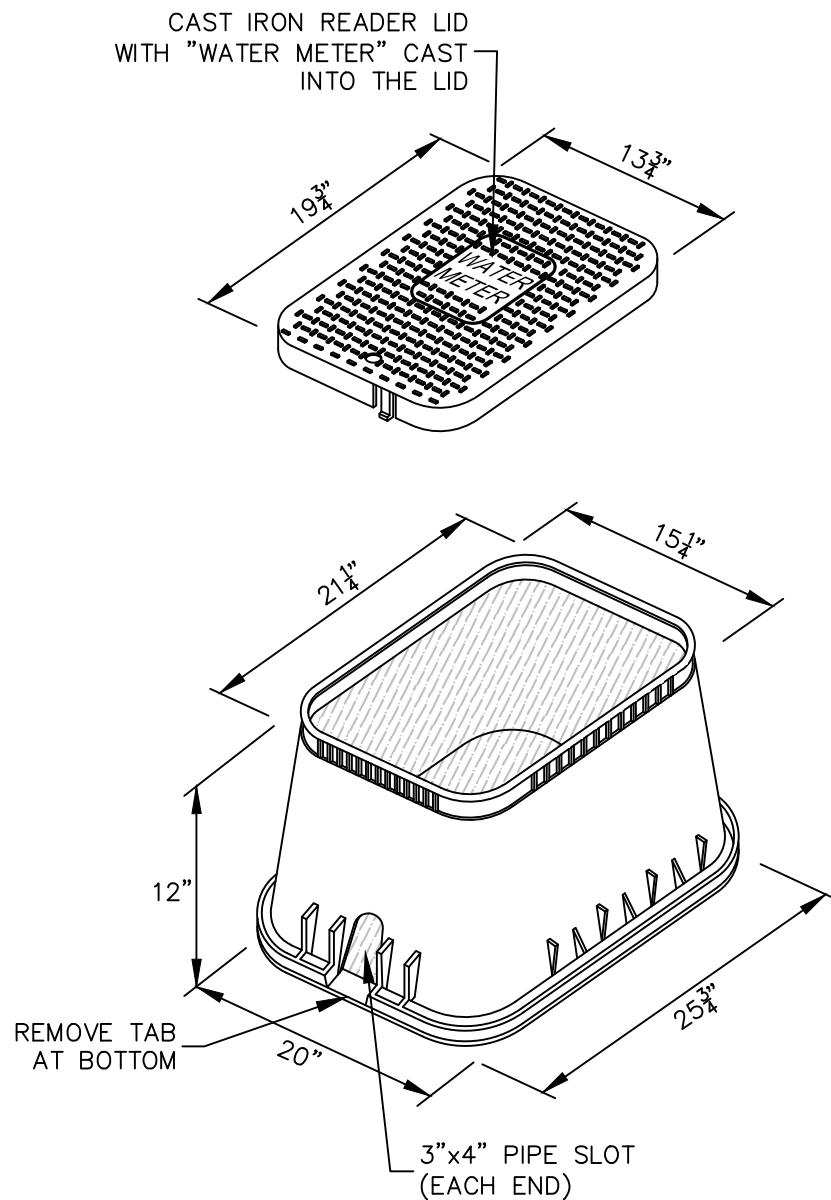
**2" WATER METER
SERVICE**

STD NO.
PW-14



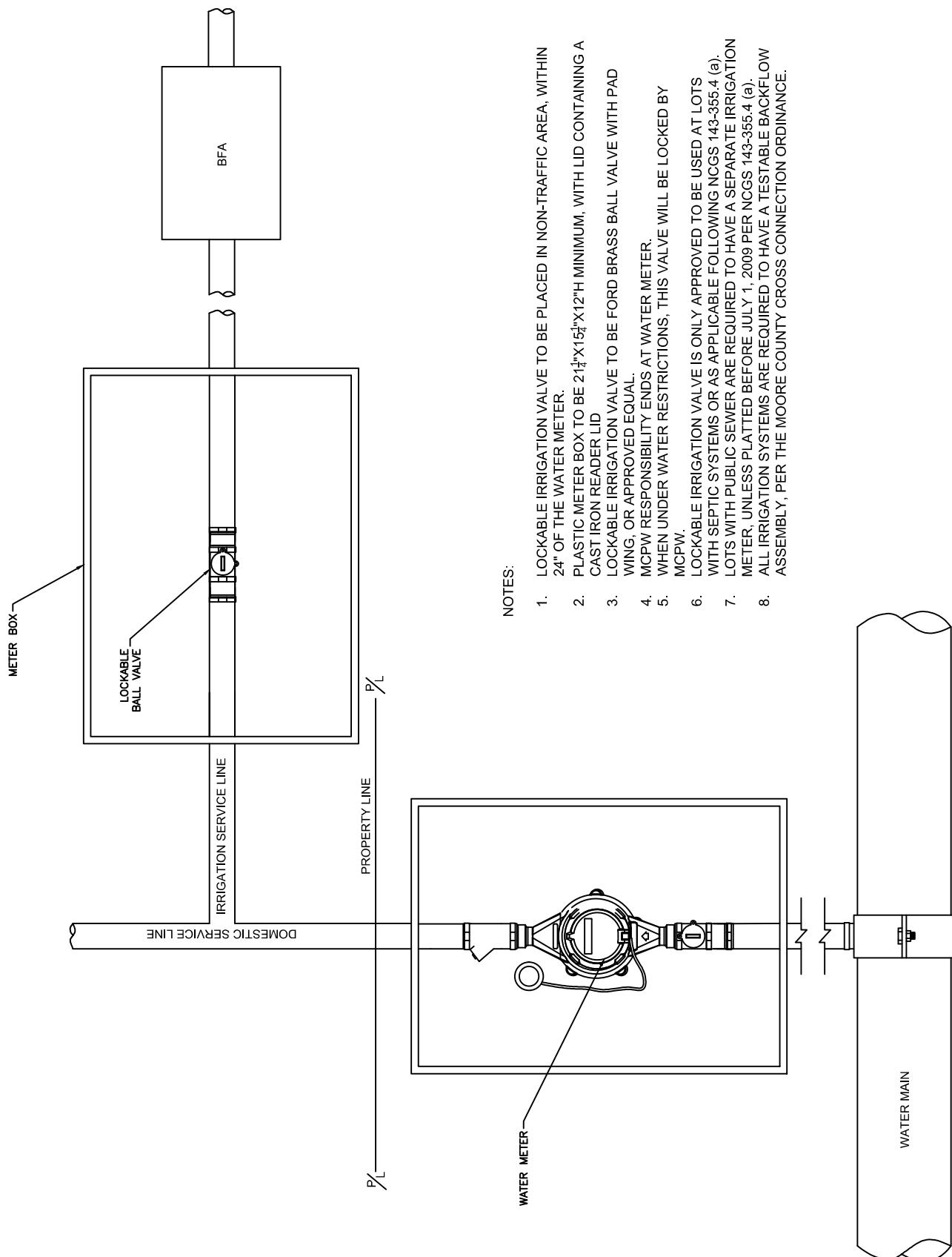
1. METER ASSEMBLY TO BE DUCTILE IRON FLANGED PIPE.
2. BY-PASS ASSEMBLY TO BE DUCTILE IRON, MECHANICAL.
3. ADJUSTABLE CONNECTING PIECE TO BE CLOW F-1439.
4. ACCESS DOOR TO BE ALUMINUM AS MANUFACTURED BY VALVES SHALL BE IRON BODY.
5. FALL PROTECTION GRATING SYSTEM REQUIRED IN VAUL
6. INSTALL 4" DRAIN TO DAYLIGHT. IF NOT POSSIBLE, TH
7. DISCHARGES TO DAYLIGHT.
8. HATCH SHALL HAVE DRAIN SO WATER WILL BE DIVERTE
9. METER VAULTS FOR METERING PUBLIC SYSTEM TO PUBLIC
- INSTALLED ON BOTH SIDES OF THE METER TO MEASURE
- SPECIFIED BY THE COUNTY ENGINEER.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	METER AND VAULT 3" & LARGER	STD NO. PW-15
DATE	DESCRIPTION			

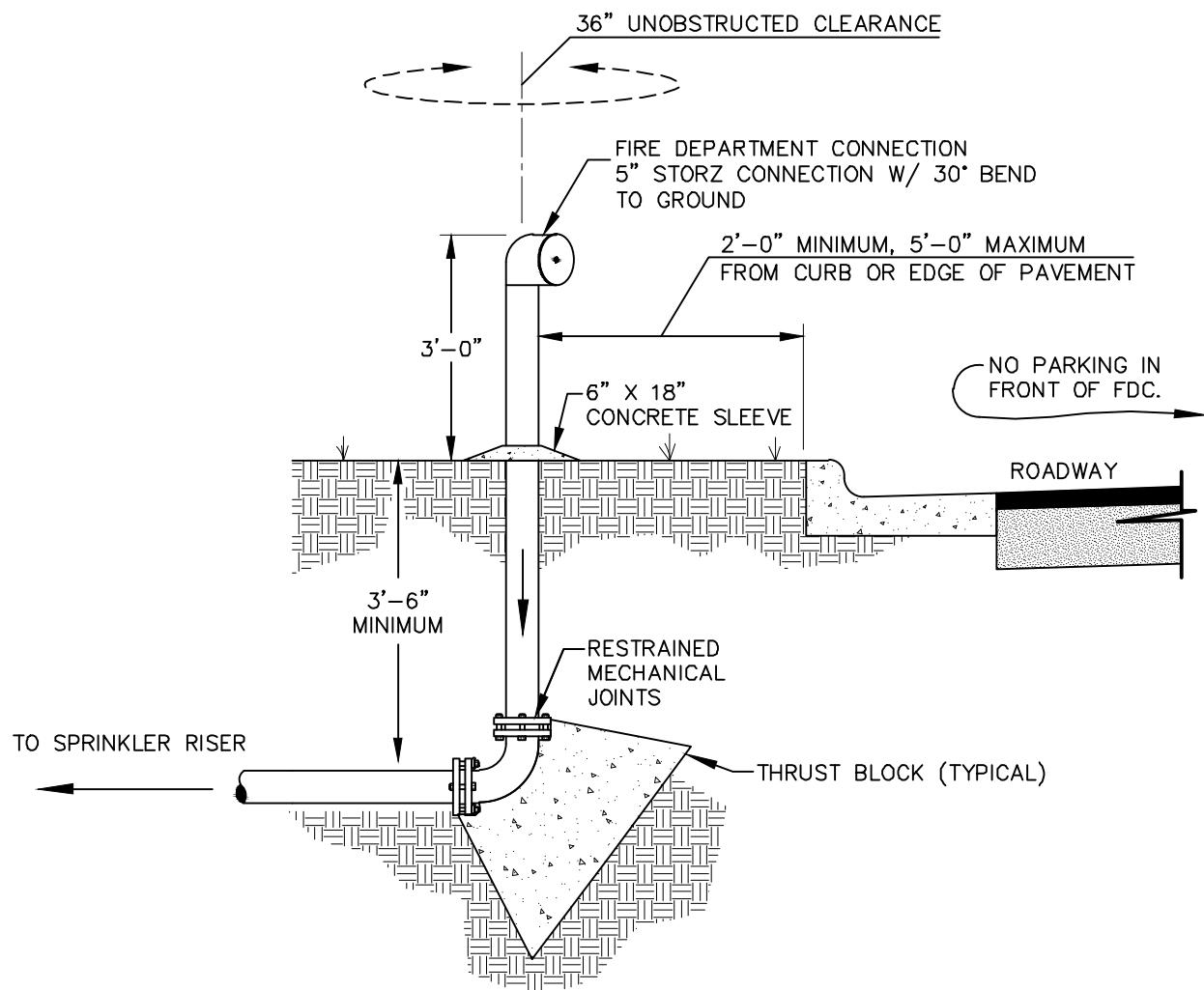


NOTE: NON-TRAFFIC RATED
(BLACK PLASTIC)

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	TYPICAL METER BOX	STD NO. PW-16
DATE	DESCRIPTION			



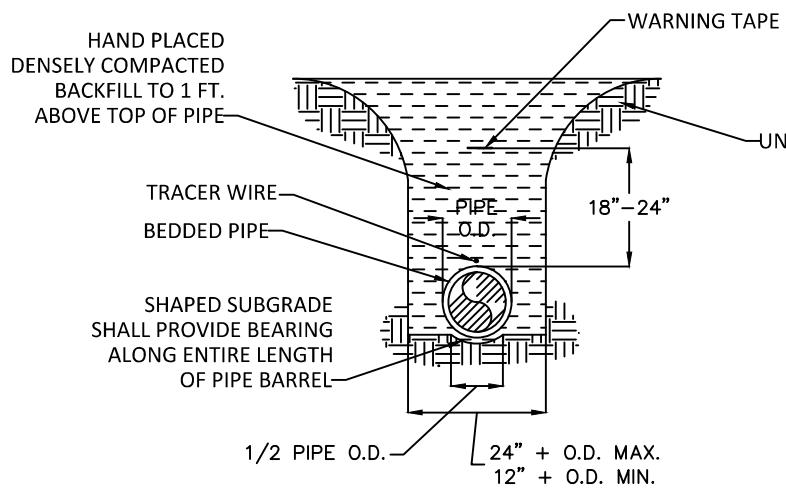
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	Lockable Valve for Irrigation (Lots not required to have an Irrigation Meter Only)	STD NO. PW-17
DATE	DESCRIPTION			



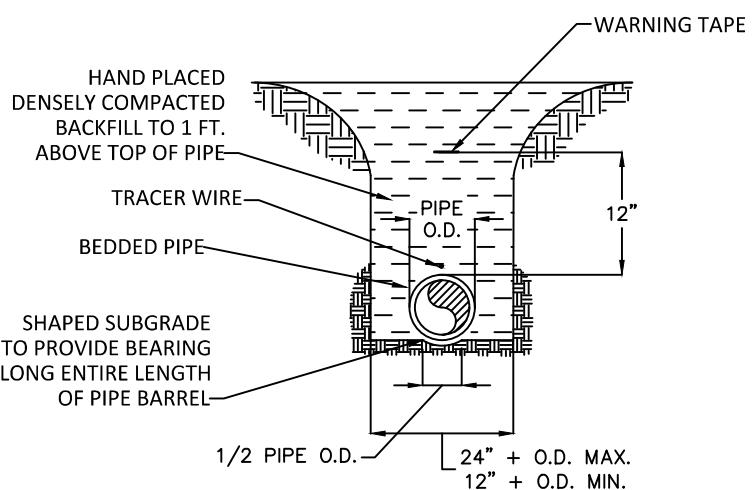
NOTES:

- 1) ALL FDC'S SHALL BE WITHIN 50 FEET OF A FIRE HYDRANT.
- 2) ALL FDC'S SHALL BE LOCATED OUTSIDE "COLLAPSE ZONE" AS REQUIRED BY FIRE MARSHAL.
- 3.) ON SHOULDER SECTIONS, FDC SHALL BE 5' (MIN) FROM TOP OF BACKSLOPE.

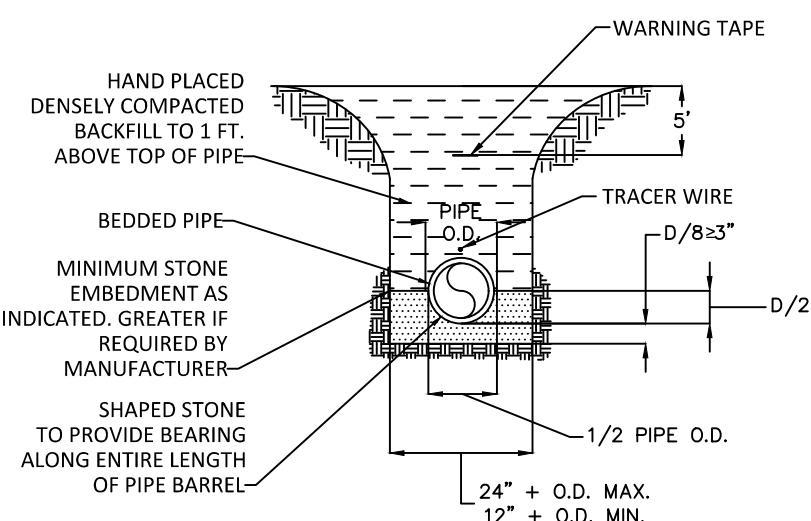
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	FIRE DEPARTMENT CONNECTION	STD NO. PW-18
DATE	DESCRIPTION			



WATER MAIN
PVC
3' - 11' DEEP
PIPE LAYING CONDITION



WATER MAIN
DIP
0 - 2.5'
PIPE LAYING CONDITION



WATER MAIN
DIP
12' & DEEPER
PIPE LAYING CONDITION

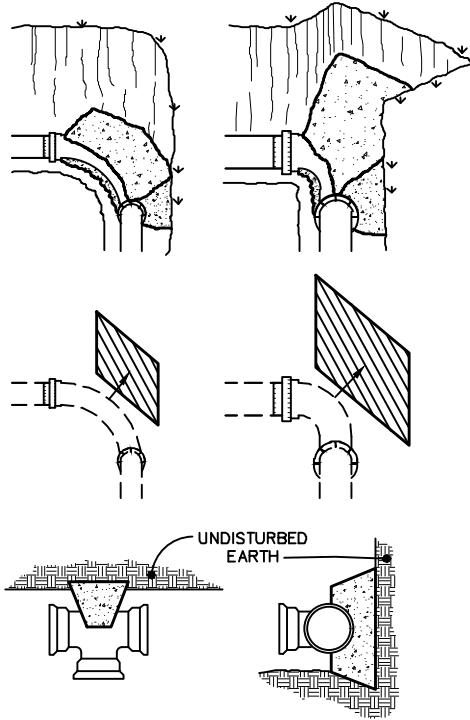
**WATER MAIN
PIPE BEDDING**

STD NO.
PW-19

REVISED

DATE DESCRIPTION

MOORE COUNTY PUBLIC WORKS
ENGINEERING DIVISION

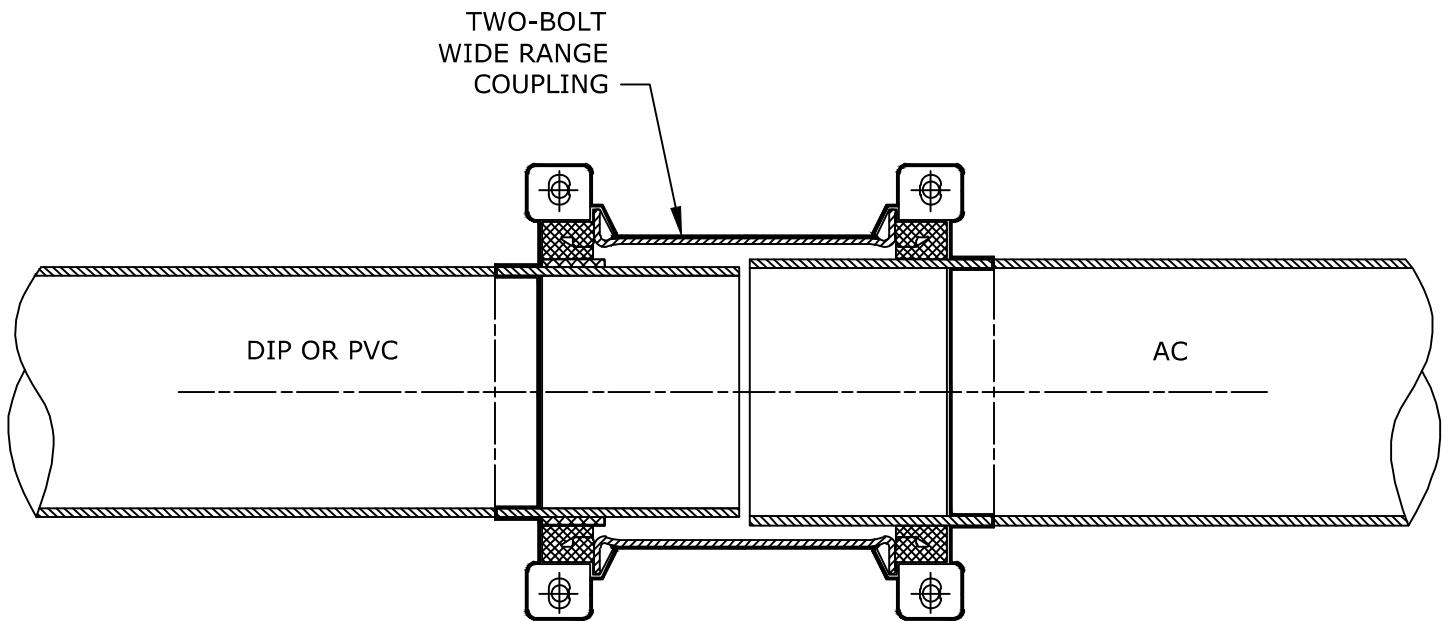


MINIMUM CONCRETE BLOCKING (C.Y.) *					
NOMINAL PIPE DIAMETER INCHES	TEES & DEAD ENDS	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	0.1	0.1	0.1	0.1	0.1
6	0.2	0.2	0.1	0.1	0.1
8	0.2	0.3	0.2	0.1	0.1
10	0.3	0.5	0.3	0.2	0.2
12	0.4	0.6	0.5	0.3	0.3
14	0.7	0.9	0.6	0.5	0.5
16	0.7	0.9	0.6	0.5	0.5
18	0.9	1.2	0.7	0.6	0.6
20	1.1	1.6	1.1	0.7	0.7
24	1.7	2.3	1.6	0.9	0.9

NOTES:

- 1) ALL FITTINGS AND ACCESSORIES SHALL BE WRAPPED WITH 6 MIL POLYETHYLENE PRIOR TO POURING CONCRETE.
- 2) NO CONCRETE SHALL COVER ANY BOLTS OR NUTS.
- 3) Poured CONCRETE SHOULD BE ON THE DRY SIDE.
- 4) CONCRETE SHALL BE 3000 P.S.I. MIN.
- 5) ALL FITTINGS SHALL HAVE MEGA-LUGS OR GRIP RINGS AND APPROPRIATE CONCRETE BLOCKING; UNLESS APPROVED OTHER WISE.

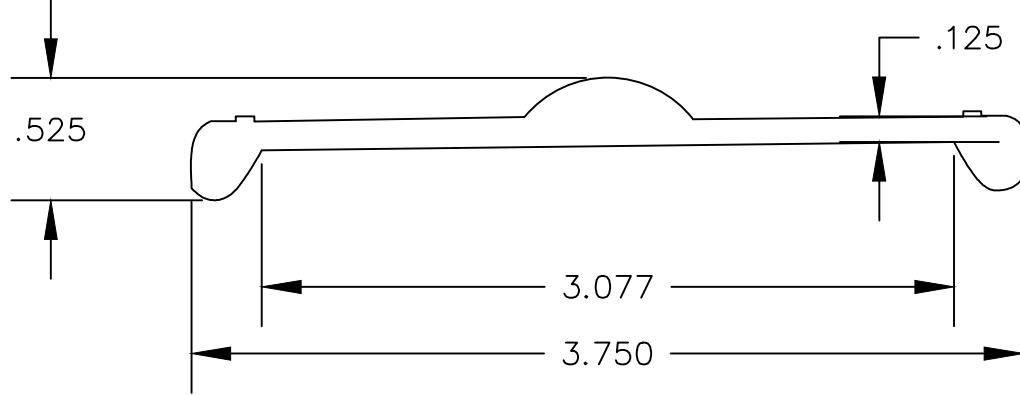
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	THRUST BLOCKING	STD NO.
DATE	DESCRIPTION			PW-20



REVISED	
DATE	DESCRIPTION
	MOORE COUNTY PUBLIC WORKS
	ENGINEERING DIVISION

**AC PIPE TO
DIP/PVC PIPE
TRANSITION**

STD NO.
PW-21



- Vinyl: White (Blue)
- Size: 2-7/8" x 15"
- Colors: "Warning" is blue and set against a white box. All other text and graphics (except "811" logo) are set against a blue background.
- Color 811 Logo: 100% PMS black background/ outline. "Know what's below. Call before you dig" is 100% PMS black.
- Shovel: 45% PMS black
- Shovel Highlights: 20% PMS black
- 811 type: Pantone 390C
- Top Arcs: Pantone 370C
- Bottom Arcs: 7505C

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	WATER LINE WARNING POST	STD NO. PW-22
DATE	DESCRIPTION			