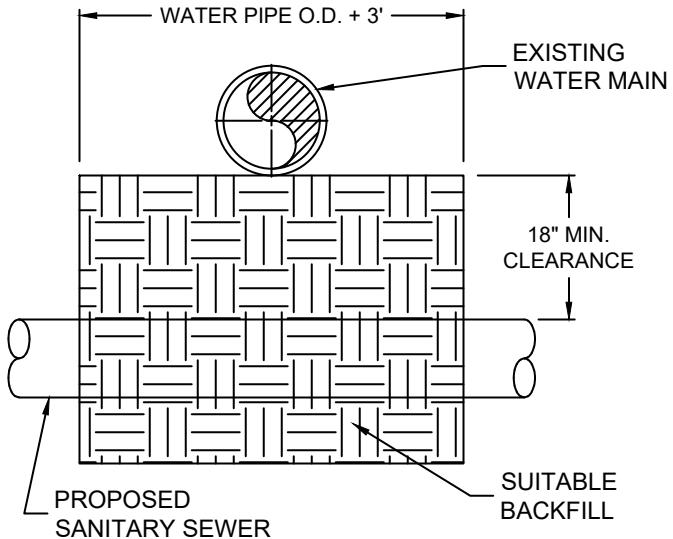
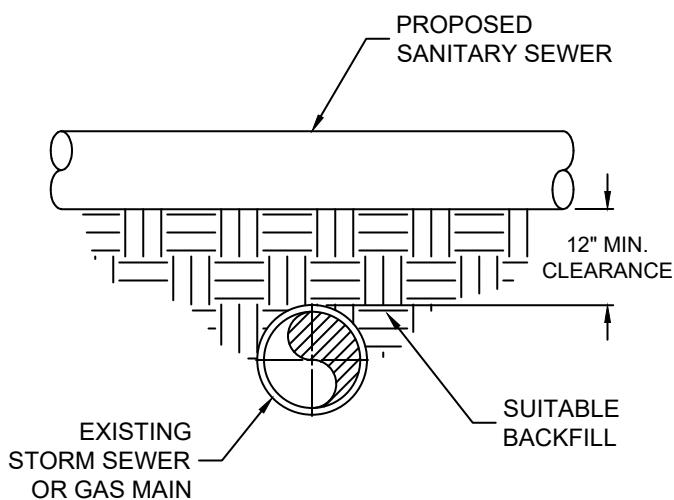


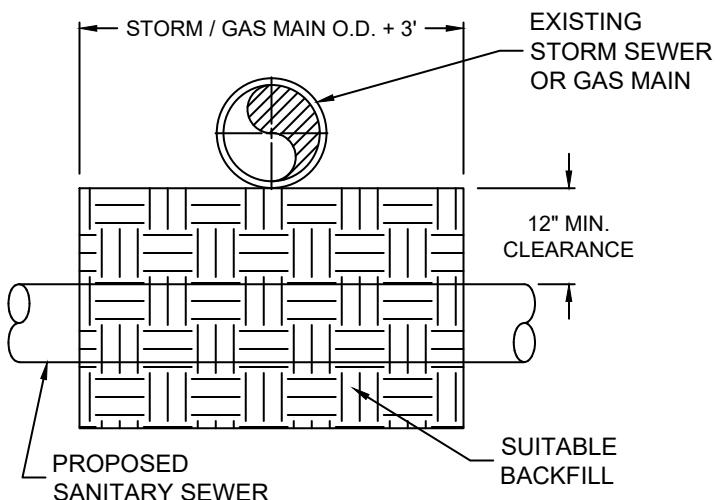
SANITARY SEWER OVER WATER MAIN  
(APPROVAL REQ. FROM COUNTY ENGINEER)



SANITARY SEWER  
UNDER WATER MAIN



SANITARY SEWER OVER  
STORM SEWER / GAS MAIN

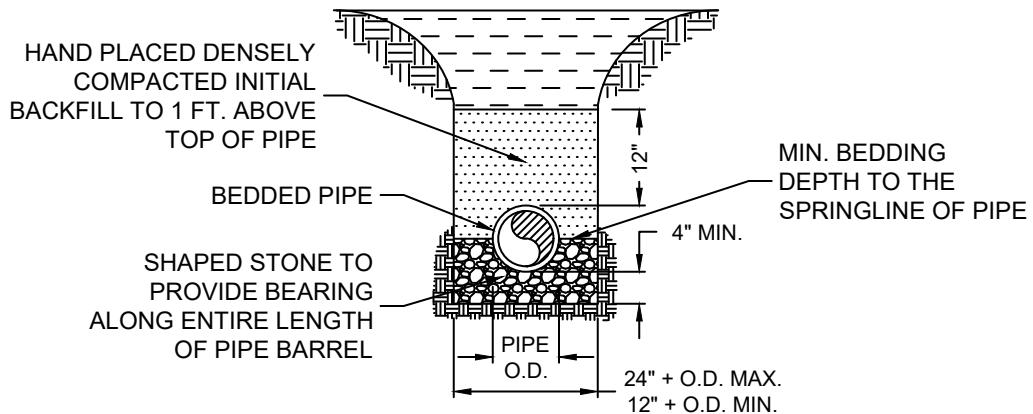


SANITARY SEWER UNDER  
STORM SEWER / GAS MAIN

**NOTE:**

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

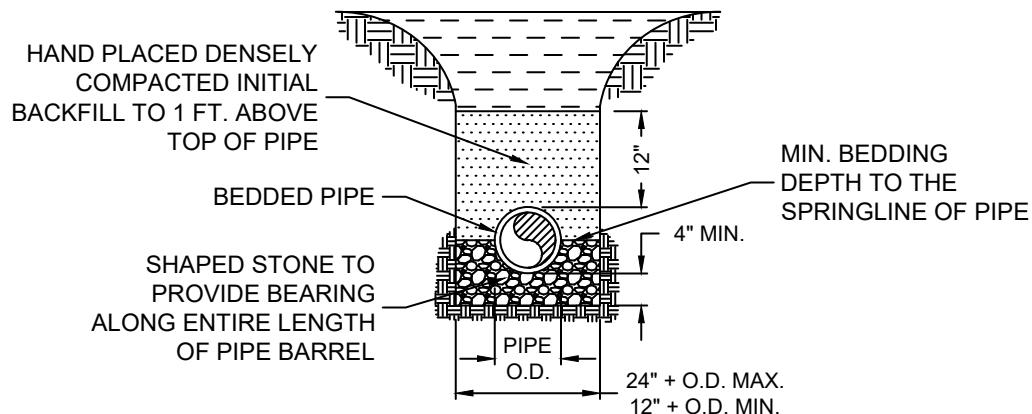
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	<b>SANITARY SEWER CROSSINGS</b>	STD NO. SS-1
DATE	DESCRIPTION			



### **SANITARY SEWER DIP**

**0' - 3' DEPTH**

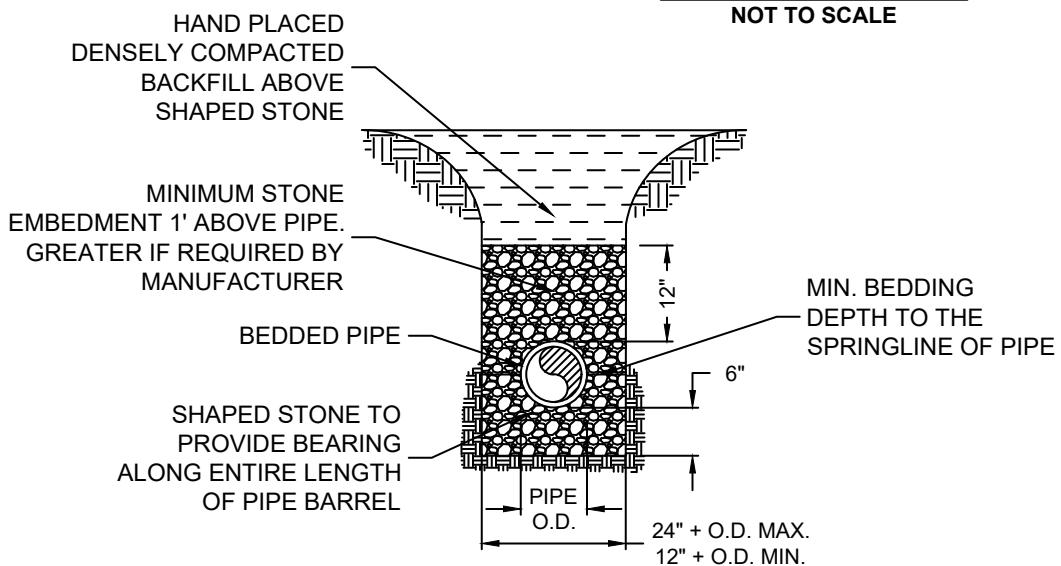
**NOT TO SCALE**



### **SANITARY SEWER**

**PVC/DIP 3' - 12' DEPTH**

**NOT TO SCALE**

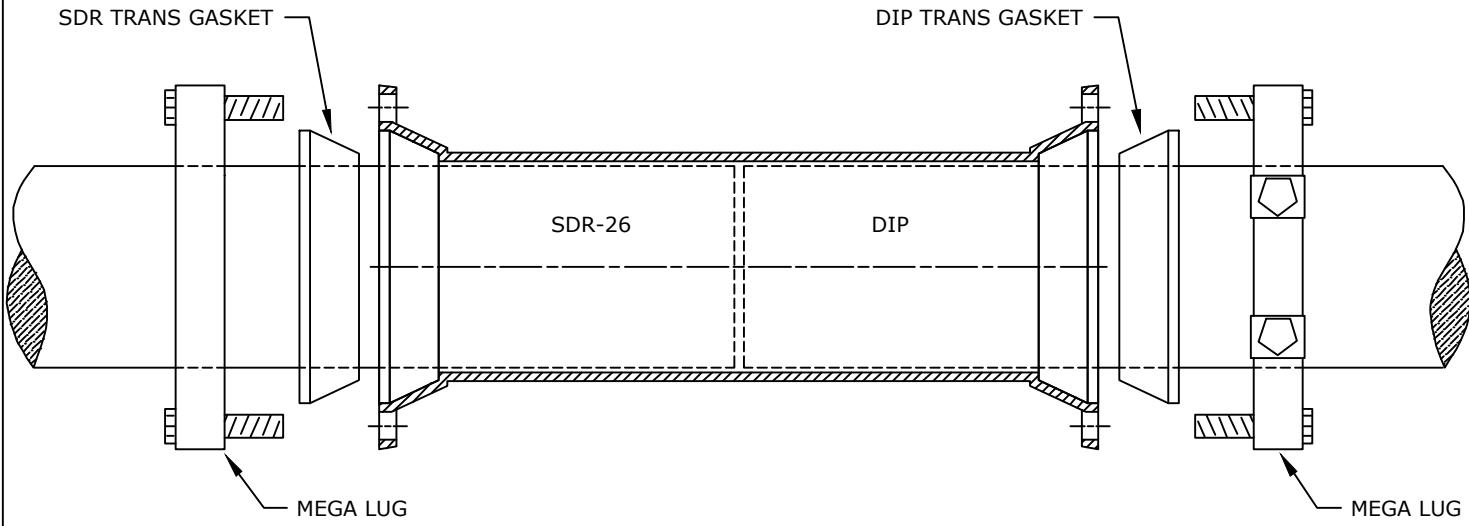


### **SANITARY SEWER**

**DIP >12' DEPTH**

**NOT TO SCALE**

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	PIPE INSTALLATION PVC & DIP	STD NO. SS-2
DATE	DESCRIPTION			

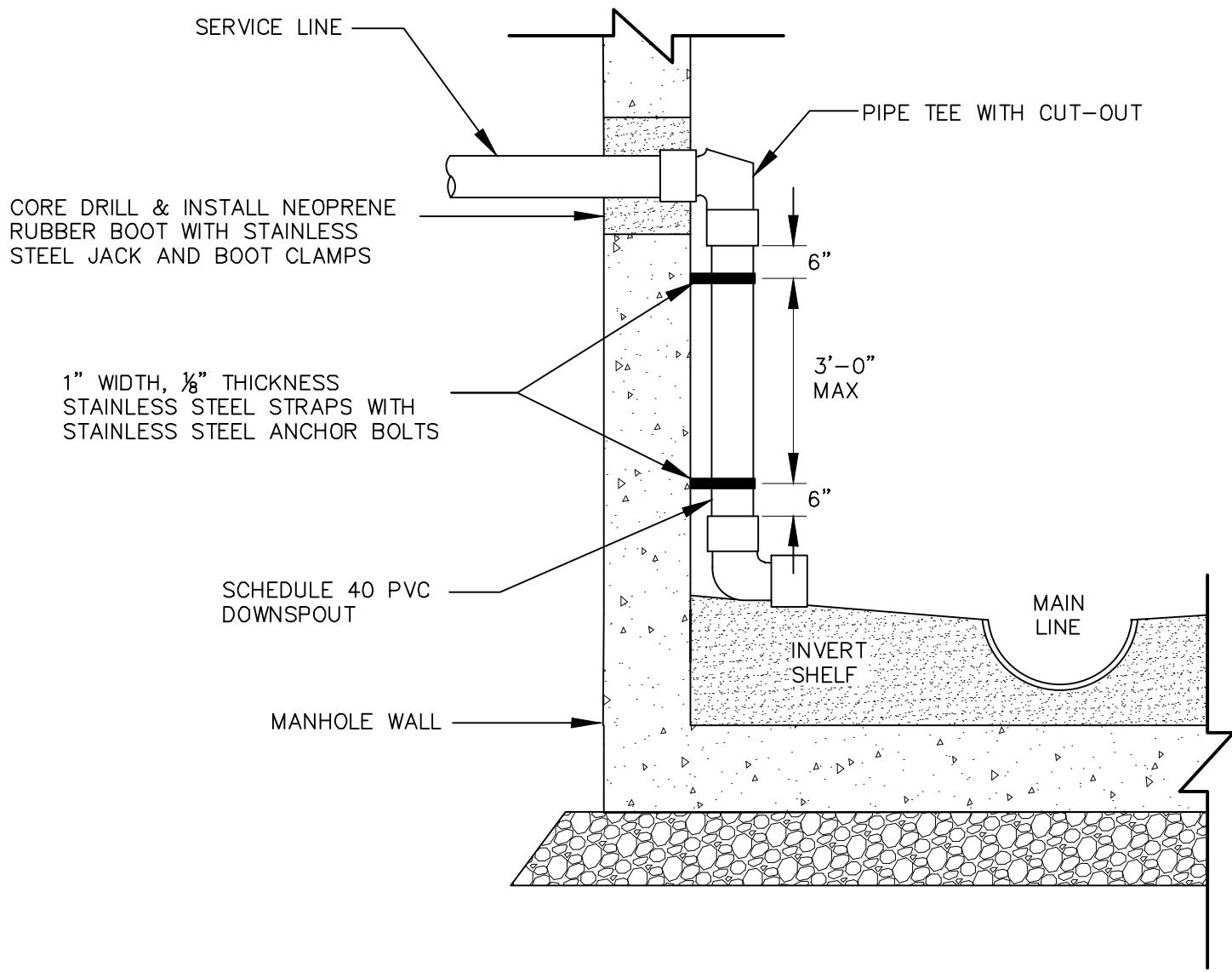


NOTES:

WHEN TRANSITIONING BETWEEN DIP & SDR-26,  
THE FOLLOWING STEPS SHALL BE TAKEN:

1. CUT THE BELL END OF THE PIPE OFF.
2. INSERT A MJ LONG SLEEVE.
3. ON THE DIP JOINT, INSERT A DIP TRANS GASKET WITH MEGA LUG.
4. ON THE SDR-26 JOINT, INSERT A SDR TRANS GASKET WITH MEGA LUG.

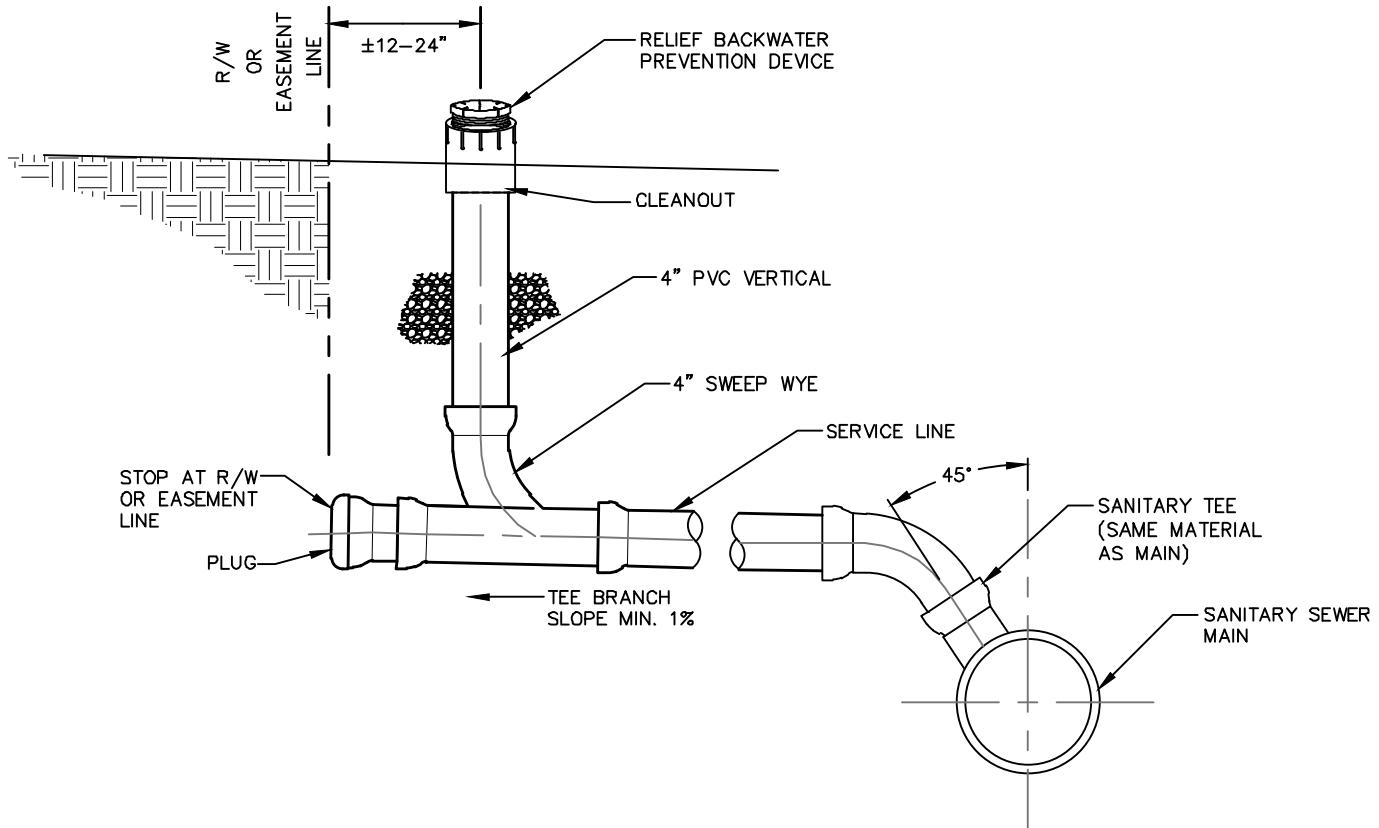
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	SDR TO DIP TRANSITION	STD NO. SS-3
DATE	DESCRIPTION			



NOTES:

1. PIPING CONFIGURATION TO BE USED ON ALL DROPS OVER 30".
2. SERVICE LINE MAY NOT ENTER MANHOLE THROUGH CONE SECTION OR ITS JOINT.
3. THIS DETAIL SHALL NOT BE USED FOR FORCE MAINS.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	MANHOLE INSIDE DROP SERVICE CONNECTION	STD NO. SS-4
DATE	DESCRIPTION			

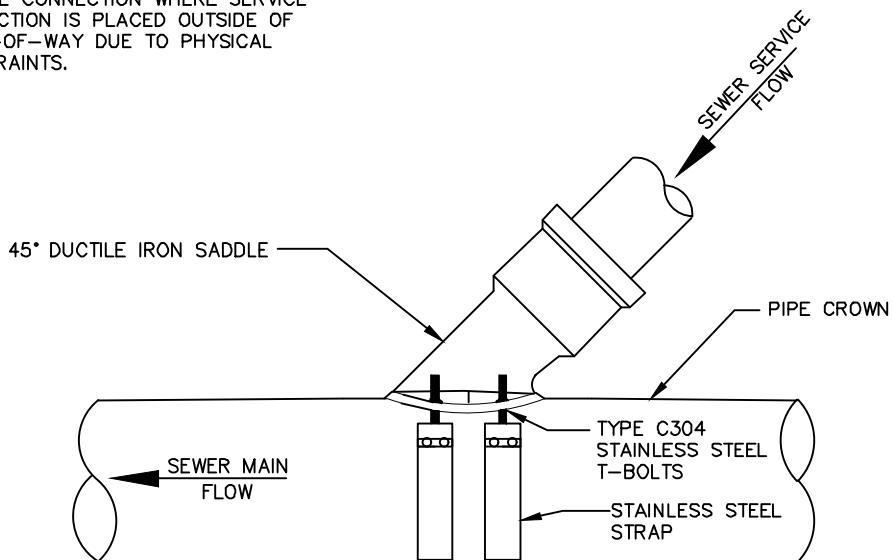


## TYPICAL SEWER SERVICE CONNECTION

(NTS)

NOTES:

AN EASEMENT SHALL BE PROVIDED FOR SERVICE CONNECTION WHERE SERVICE CONNECTION IS PLACED OUTSIDE OF RIGHT-OF-WAY DUE TO PHYSICAL CONSTRAINTS.

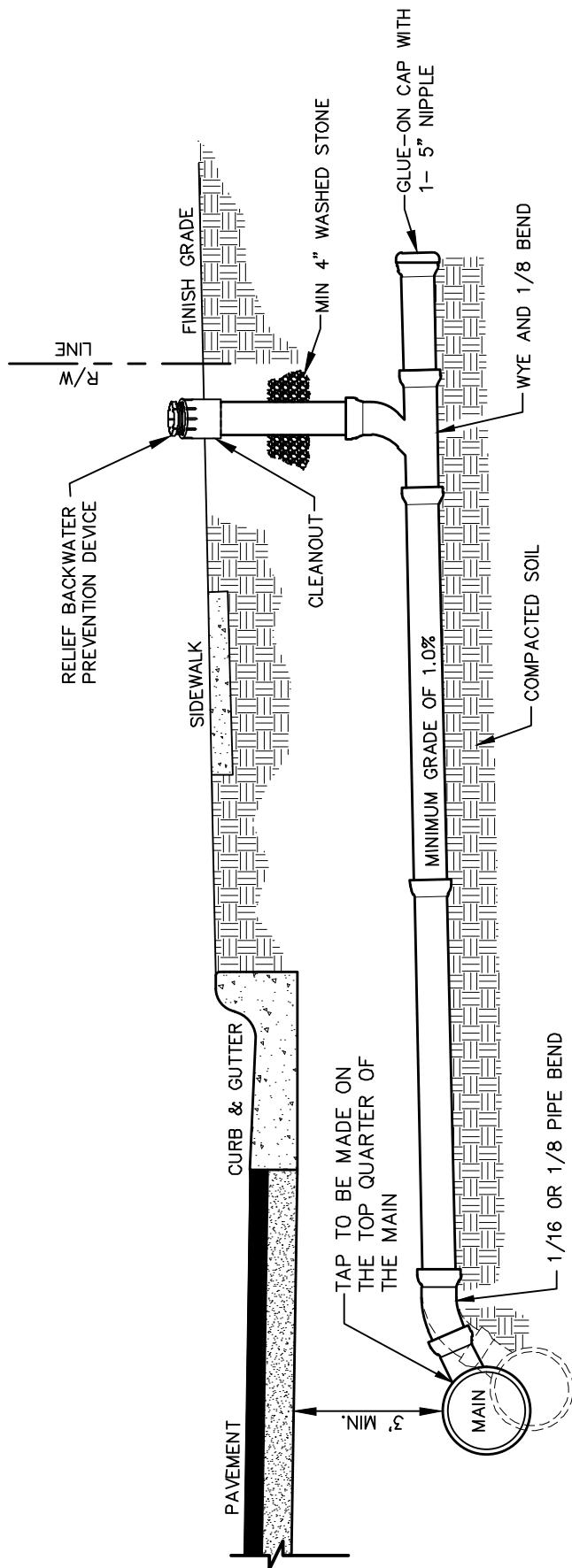


(NTS)

NOTES:

- 1) VITRIFIED CLAY PIPE SHALL BE BLOCKED AND SEALED WITH CONCRETE.
- 2) IN-LINE WYE FITTING TO BE PROVIDED WITH NEW CONSTRUCTION.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	SERVICE CONNECTION AND CLEANOUT	STD NO. SS-5
DATE	DESCRIPTION			



NOTES:

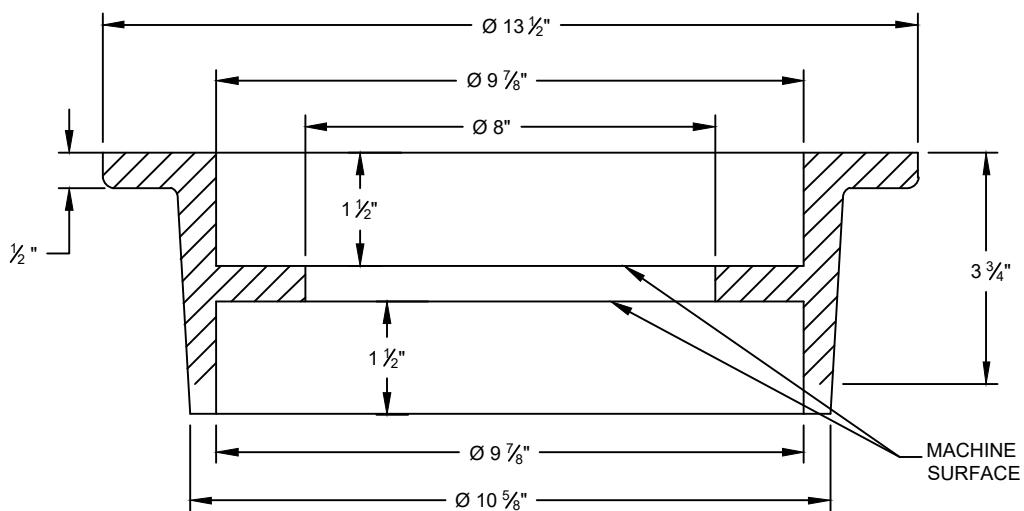
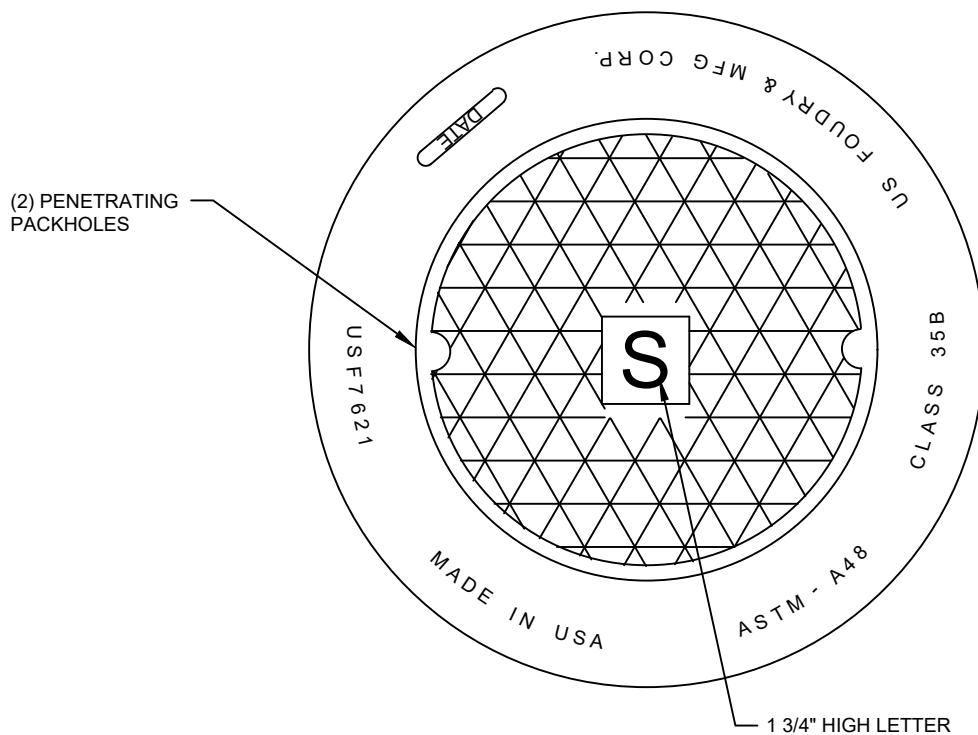
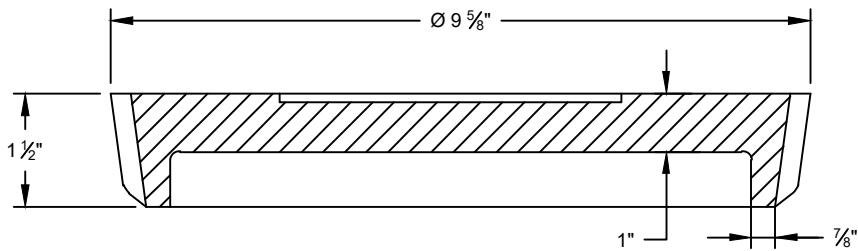
- 1) CLEANOUT SHALL BE PLACED AT RIGHT-OF-WAY LINE.
- 2) DO NOT INSTALL CLEANOUT INSIDE A FENCE.
- 3) IN SHOULDER SECTIONS, THE SERVICE SHALL BE A MINIMUM OF 30" BELOW THE FLOW LINE OF THE DITCH.

REVISED	
DATE	DESCRIPTION

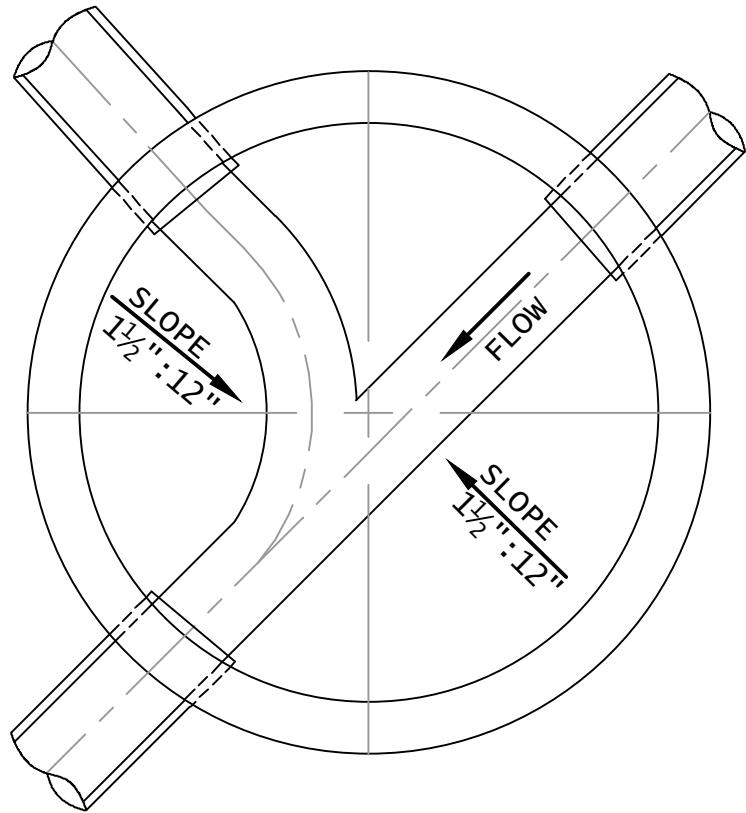
MOORE COUNTY PUBLIC WORKS  
ENGINEERING DIVISION

**SANITARY SEWER TAP**

STD NO.  
SS-6



REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	SEWER CLEANOUT FRAME & COVER	STD NO. SS-7
DATE	DESCRIPTION			



## **TYPICAL MANHOLE INVERT**

(NTS)

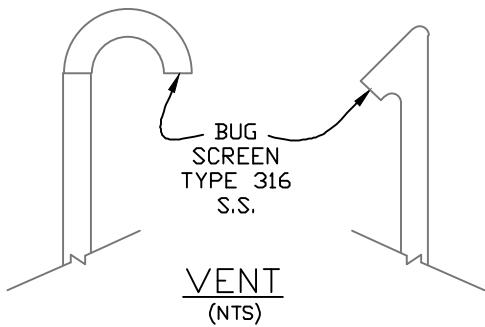
REVISED	
DATE	DESCRIPTION
	MOORE COUNTY PUBLIC WORKS
	ENGINEERING DIVISION

MOORE COUNTY PUBLIC WORKS  
ENGINEERING DIVISION

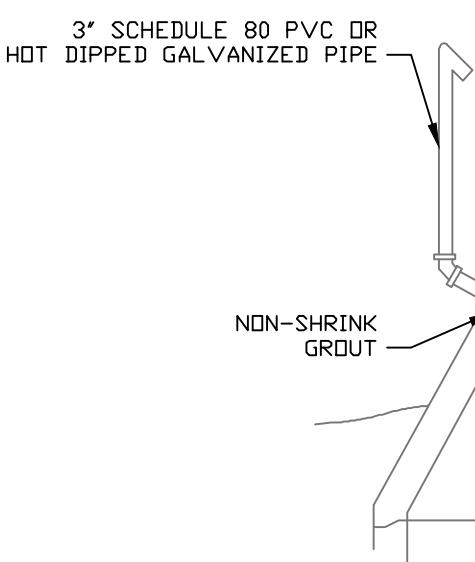
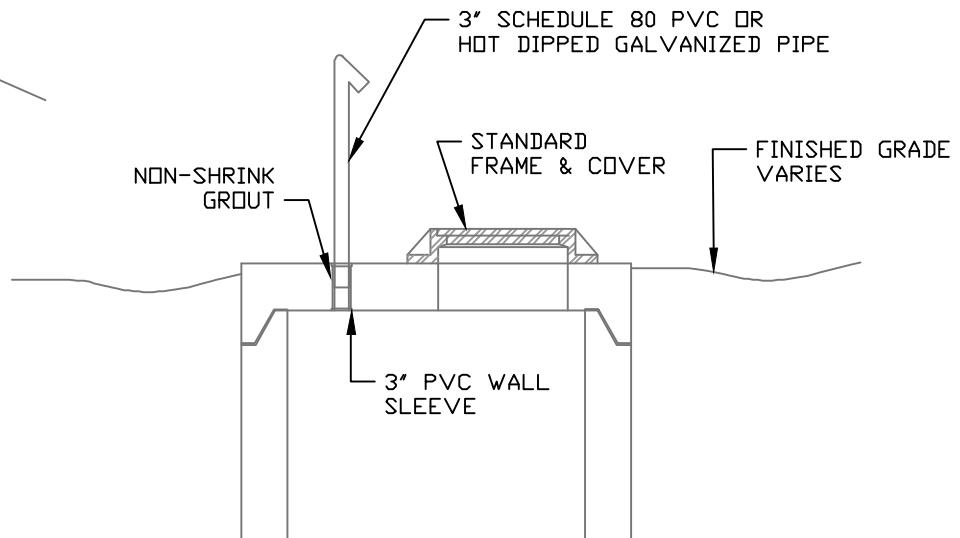
**MANHOLE INVERT**

STD NO.

SS-8



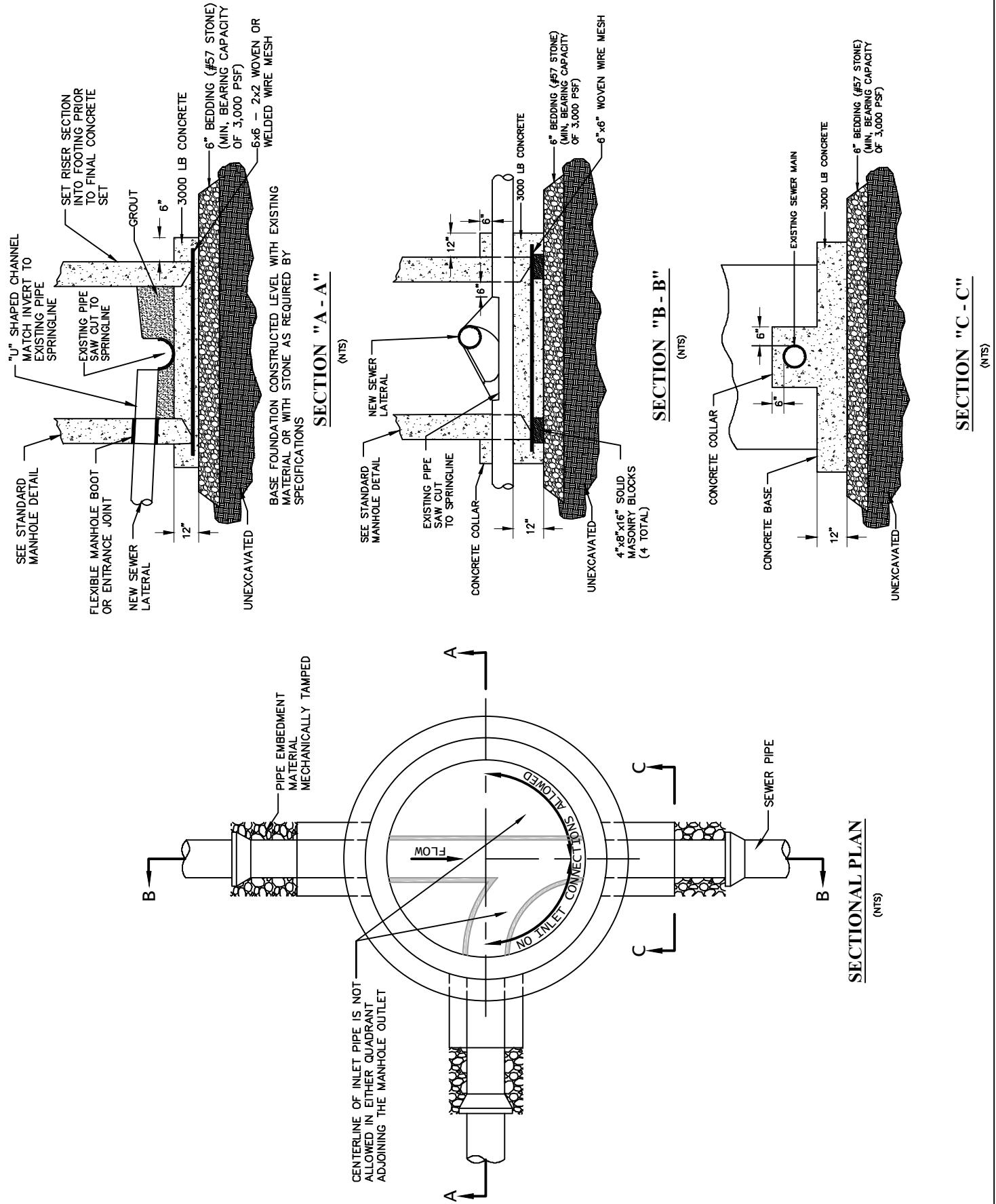
NOTE:  
VENT TOP TO BE 2'  
ABOVE 100 YEAR FLOOD  
ELEV. OR 5' ABOVE  
MANHOLE, WHICHEVER  
IS GREATER.

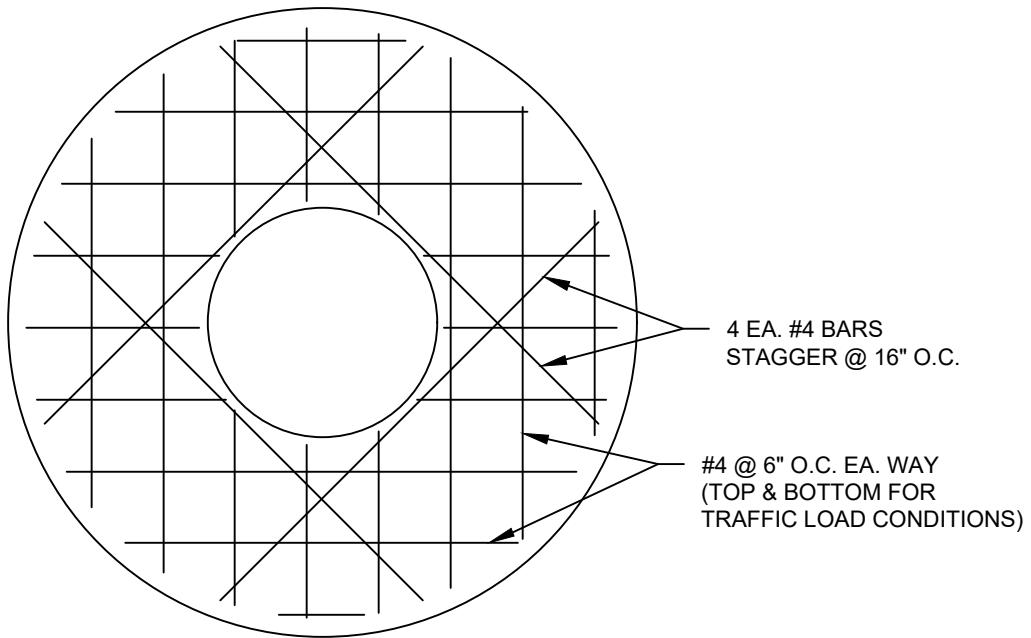


FLAT TOP MANHOLE  
(NTS)

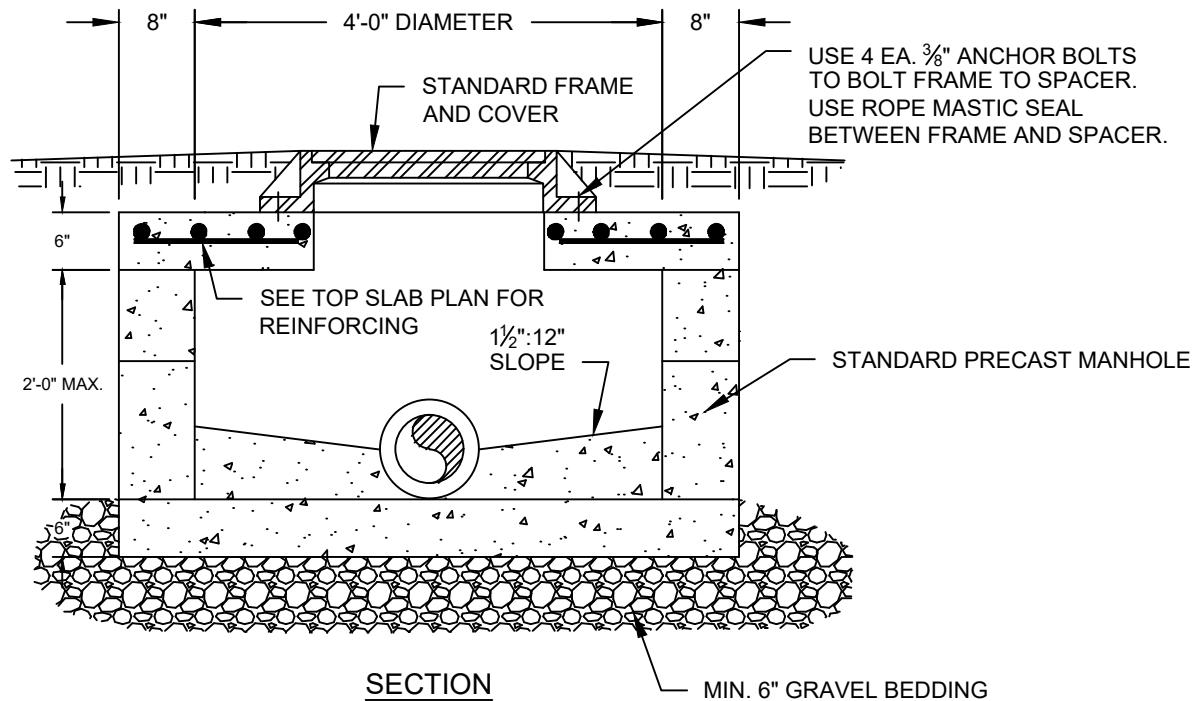
cone top manhole  
(NTS)

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	VENTED MANHOLE	STD NO. SS-9
DATE	DESCRIPTION			





PLAN - TOP SLAB



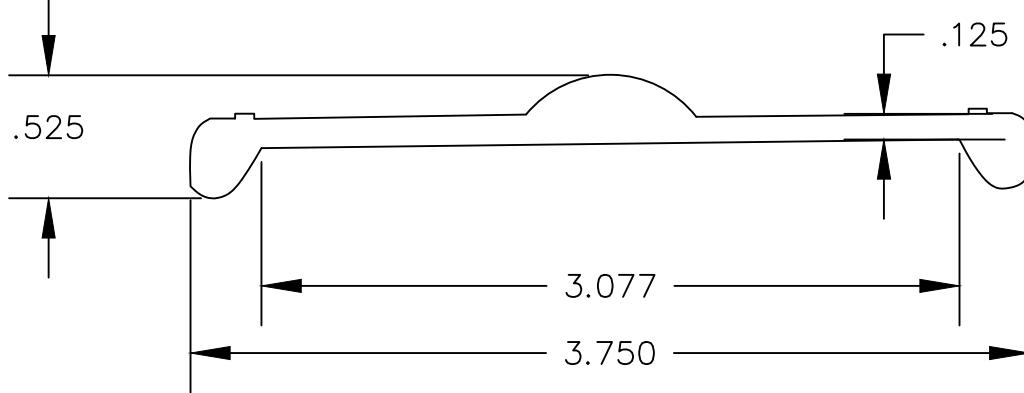
**REVISED**

DATE      DESCRIPTION

MOORE COUNTY PUBLIC WORKS  
ENGINEERING DIVISION

**SHALLOW MANHOLE**

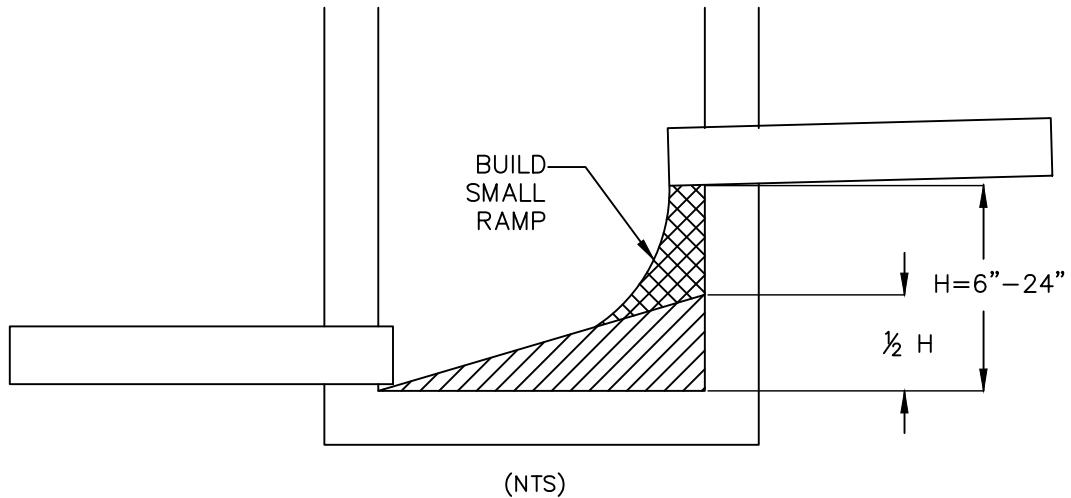
STD NO.  
SS-11



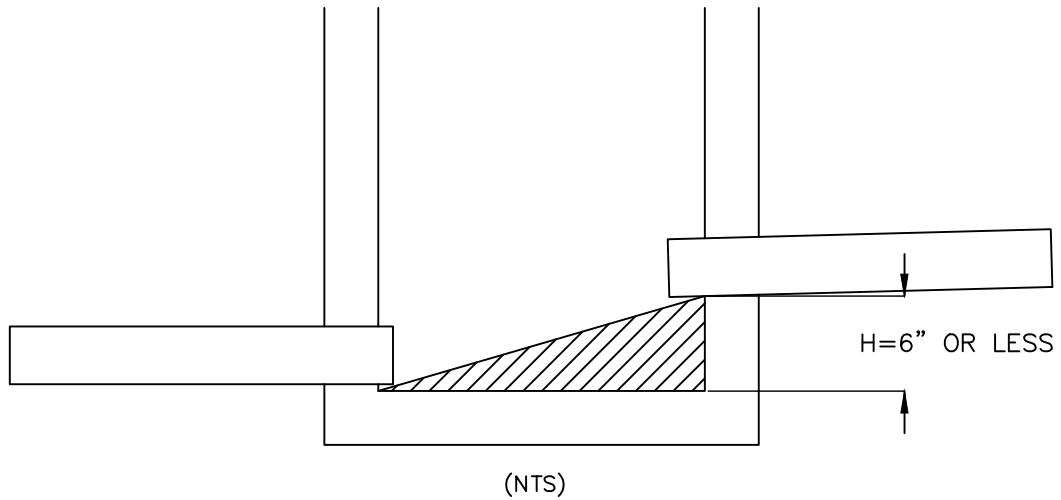
- Vinyl: White (Flooded Green)
- Size: 2-7/8" x 15"
- Colors: "Warning" is green and set against a white box. All other text and graphics (except "811" logo) are set against a green background.
- Color 811 Logo: 100% PMS black background/ outline. "Know what's below. Call before you dig" is 100% PMS 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	MANHOLE WARNING POST	STD NO. SS-12
DATE	DESCRIPTION			

1: IF "H" IS BETWEEN 6"-24"

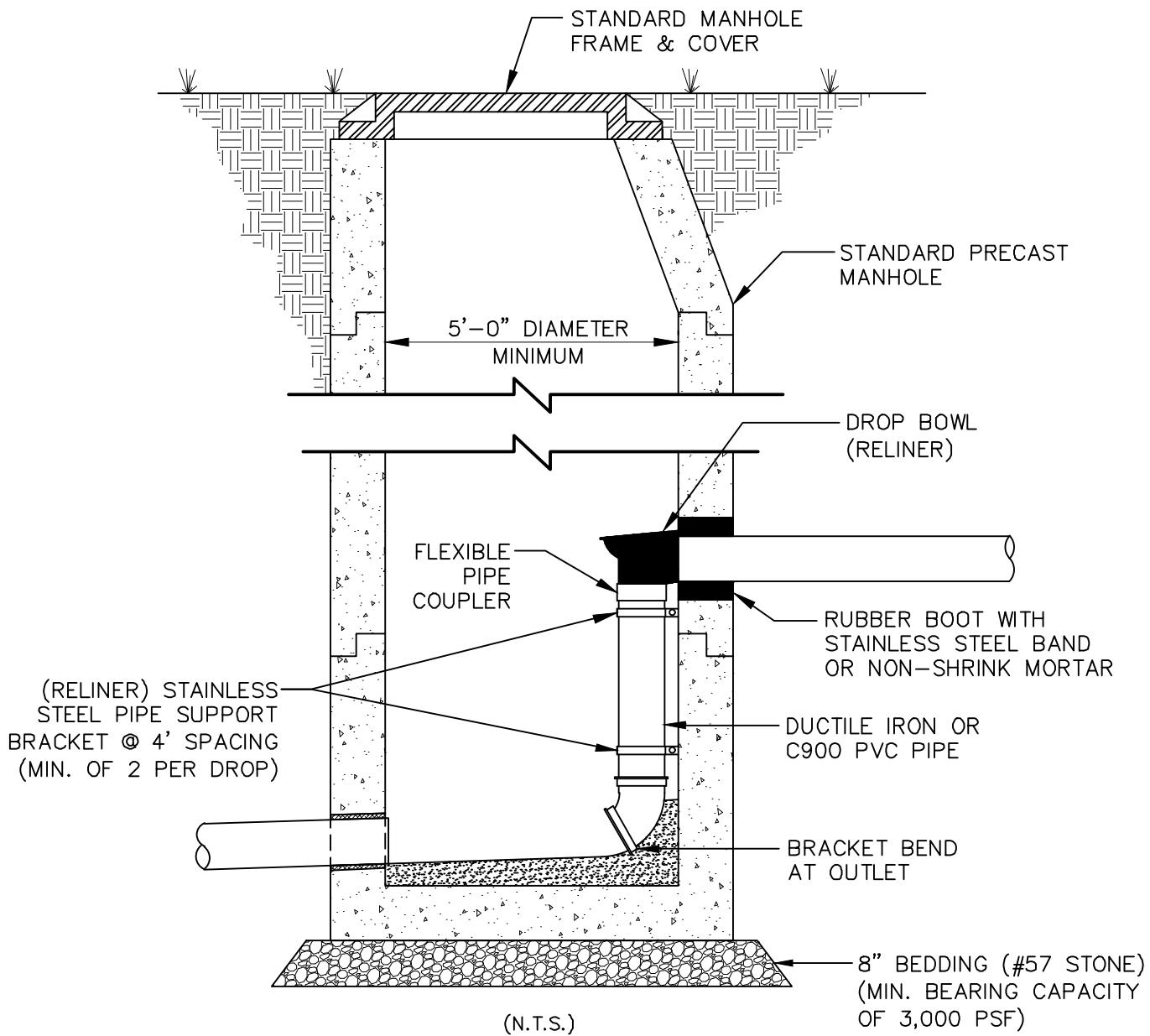


2: IF "H" IS 6" OR LESS



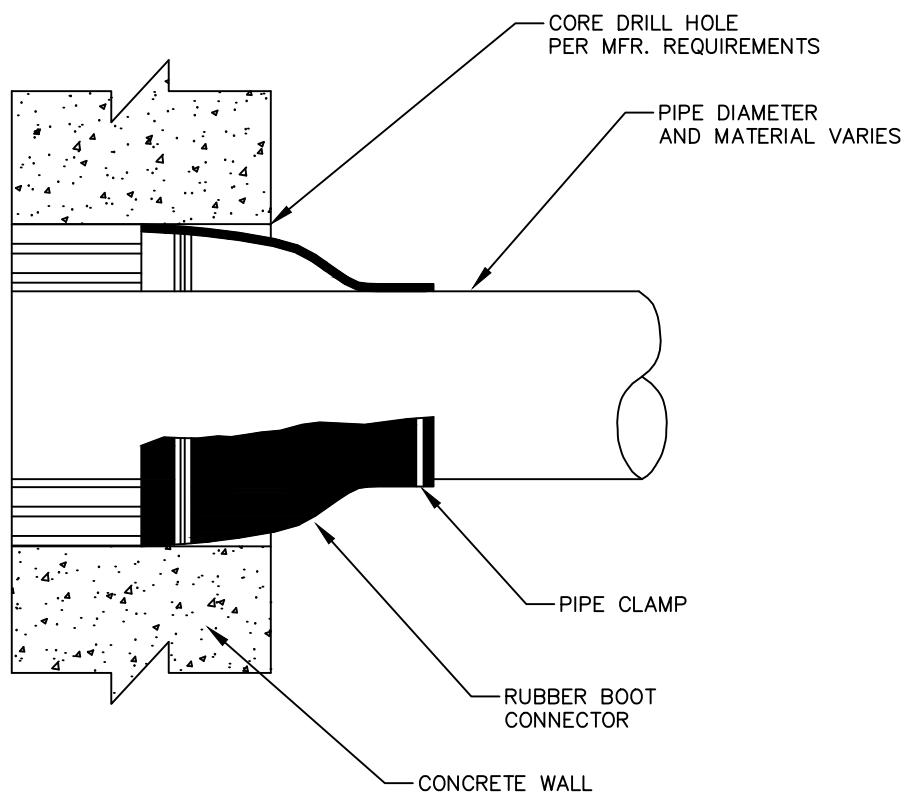
H = ELEVATION DIFFERENCE BETWEEN INVERT OF EFFLUENT PIPE AND INVERT OF INFLUENT PIPE.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	MANHOLE CHANNEL SLIDE	STD NO. SS-13
DATE	DESCRIPTION			



NOTE:  
ALL DUCTILE IRON FITTINGS TO  
BE #401 COATED

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	MAIN LINE MANHOLE INSIDE DROP	STD NO. SS-14
DATE	DESCRIPTION			
12-16-19	DROP BOWL			

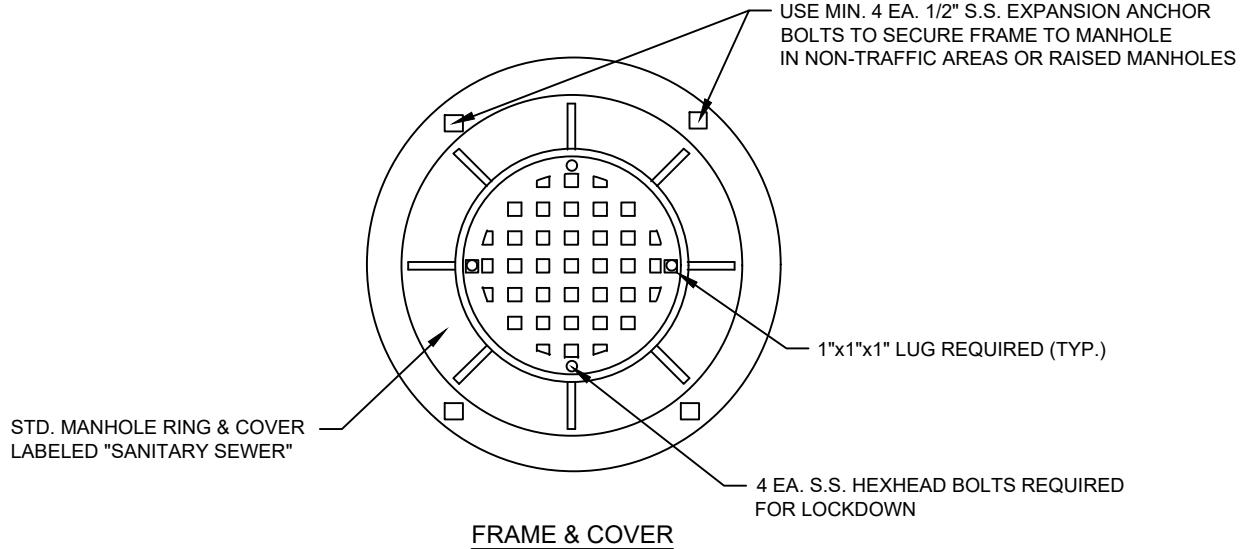


REVISED	
DATE	DESCRIPTION
	MOORE COUNTY PUBLIC WORKS
	ENGINEERING DIVISION

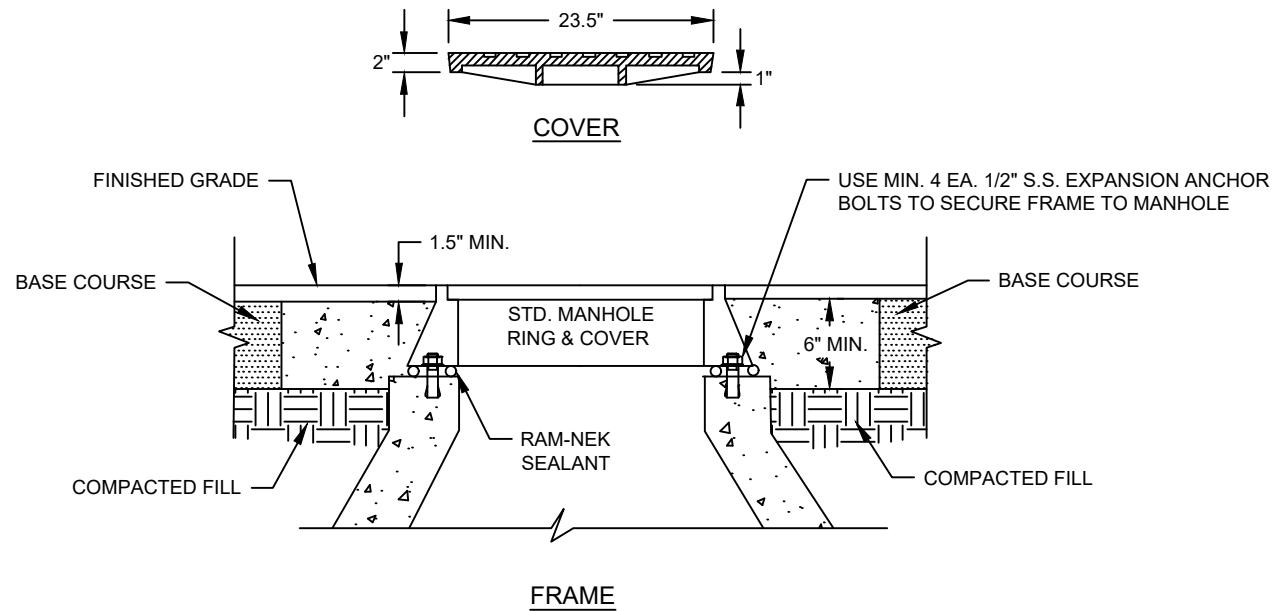
**RUBBER BOOT**

STD NO.

SS-15



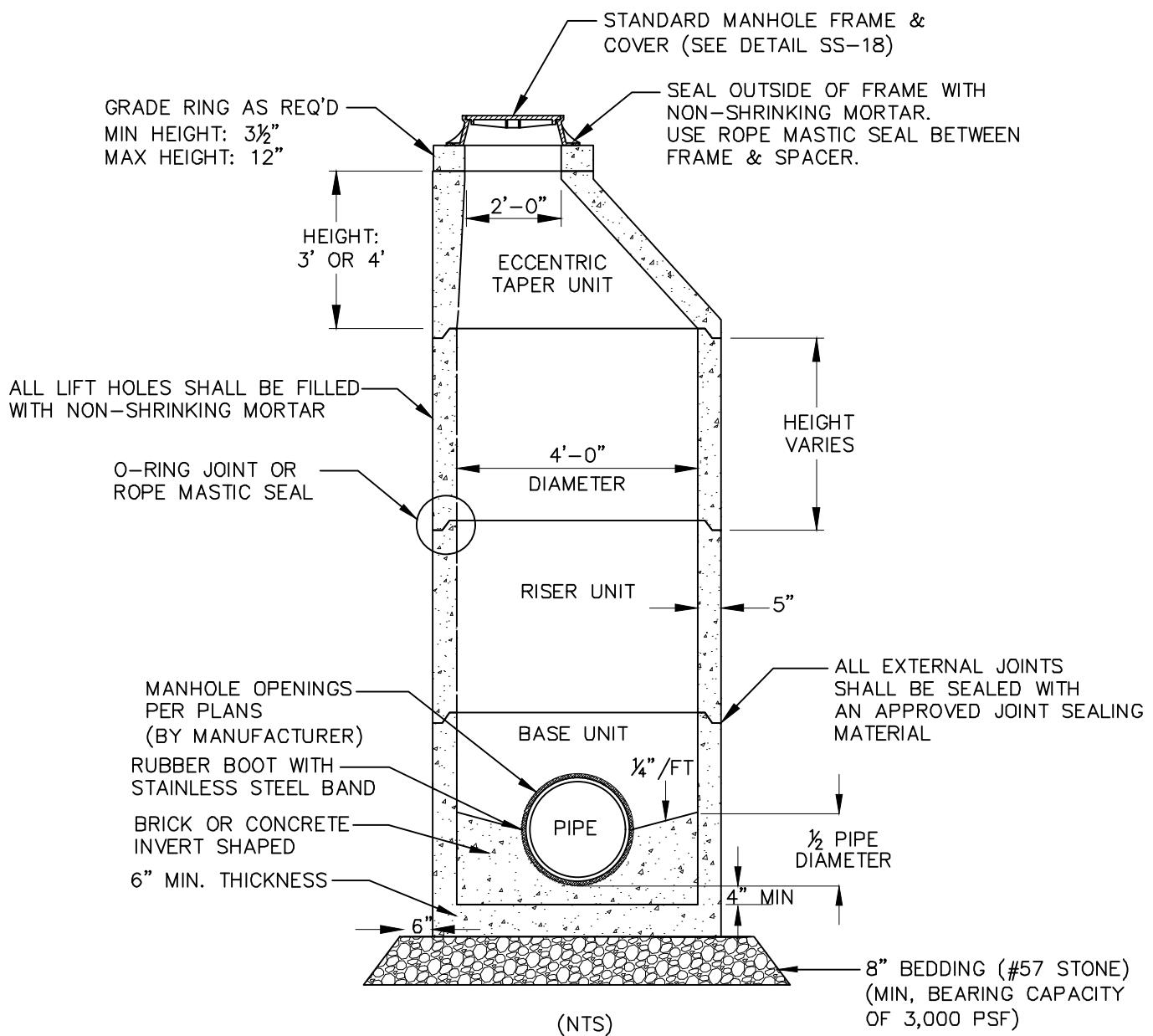
NOTE: CONCRETE ENCASEMENT SHALL ONLY  
BE USED IN AREAS WHERE COVER IS TO BE  
FLUSH WITH PAVEMENT OR CONCRETE.  
CONCRETE ENCASEMENT SHALL NOT BE USED  
IN NON-TRAFFIC AREAS AND ABOVE GRADE  
INSTALLATIONS.



## LOCKABLE MANHOLE FRAME & COVER

NOT TO SCALE

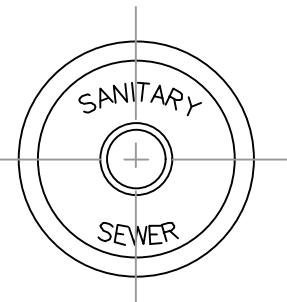
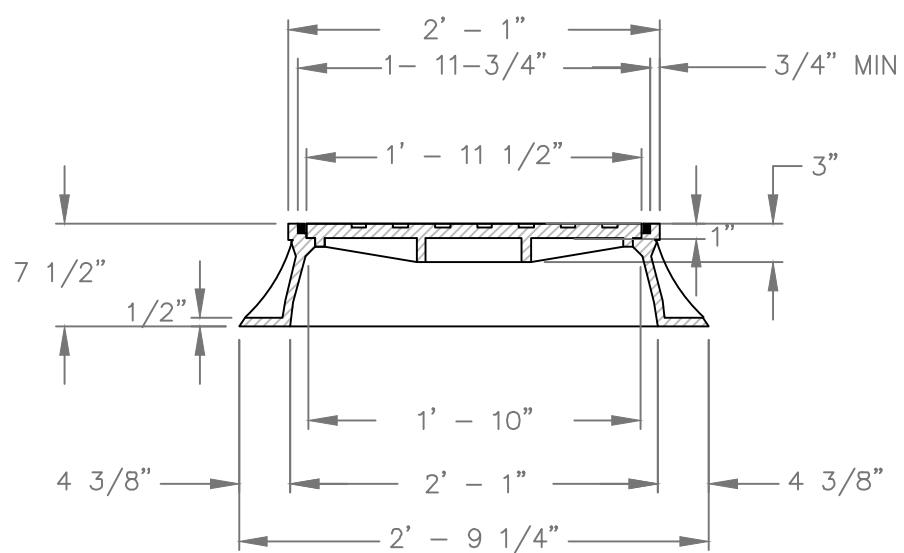
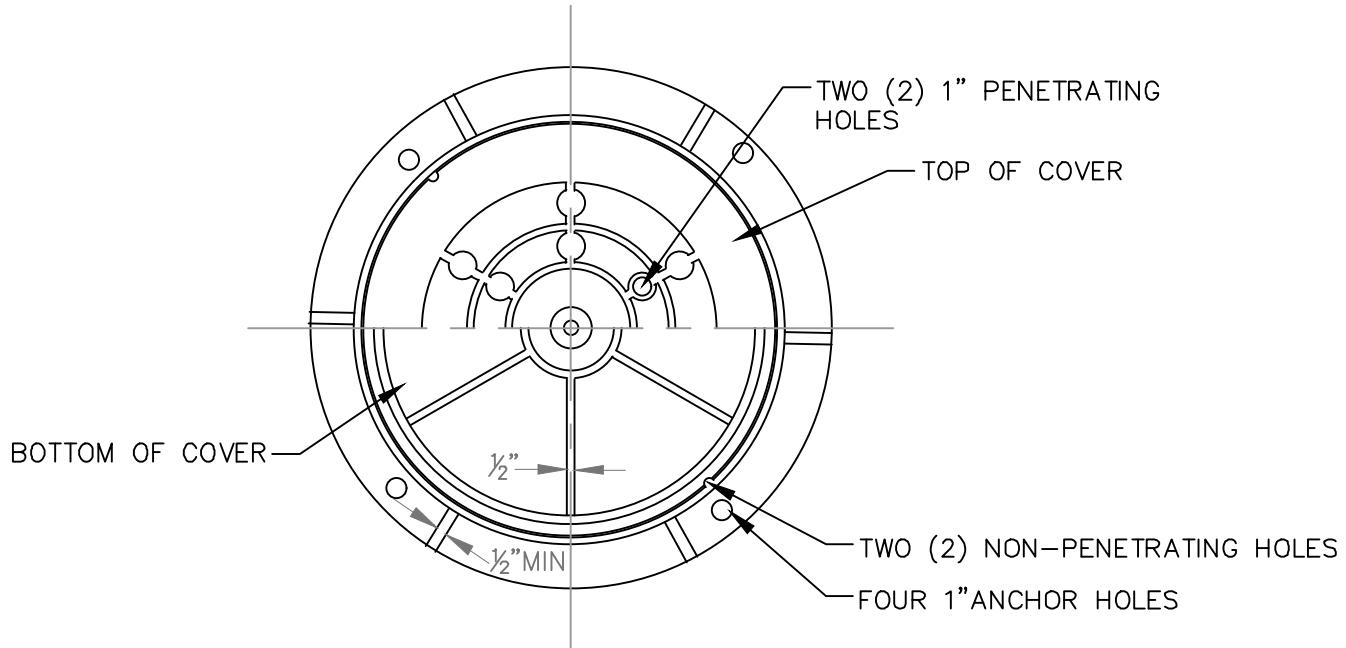
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	LOCKABLE MANHOLE FRAME & COVER	STD NO. SS-16
DATE	DESCRIPTION			



NOTES:

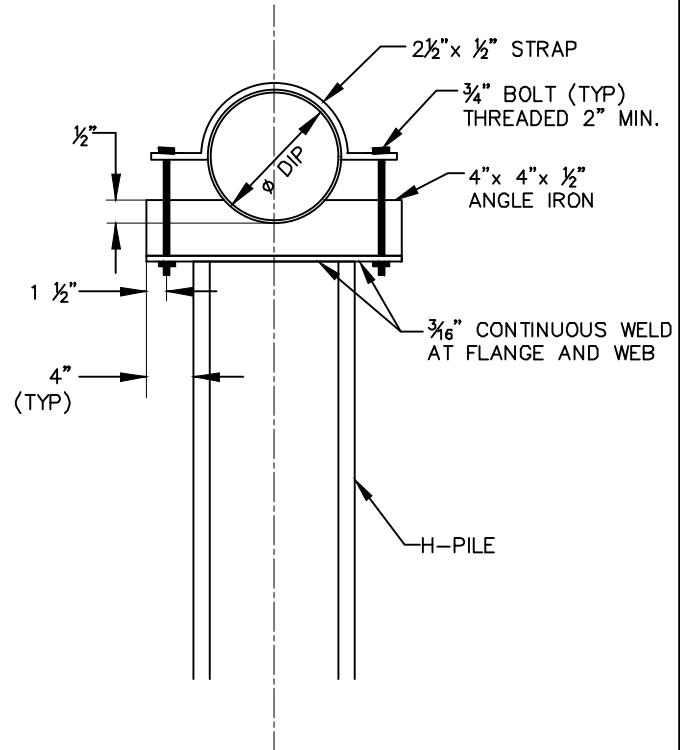
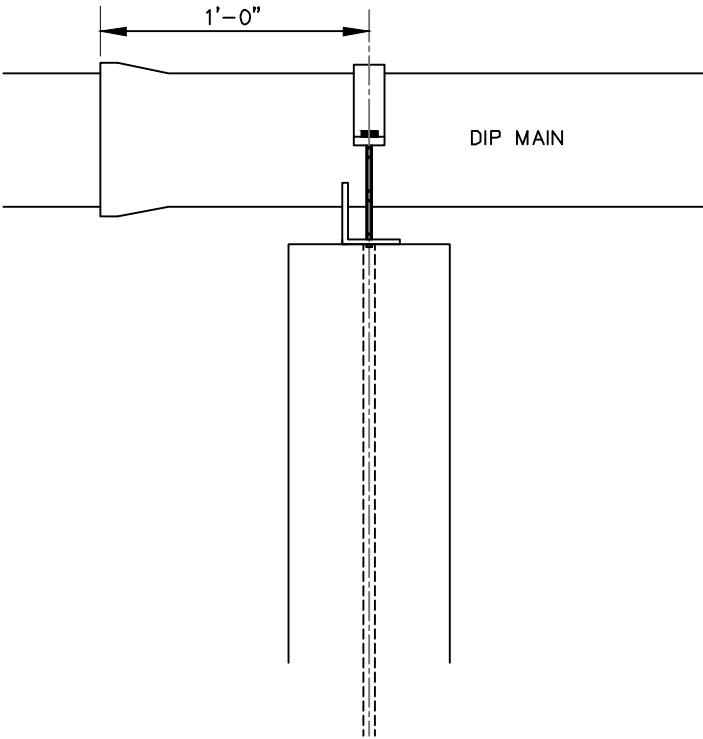
1. 4,000 PSI CONCRETE MIN. A.S.: 0.17 SQ.IN/FT (REINF. NOT SHOWN)
2. FOR TEMPORARY DEAD-END MANHOLES, THE INVERT THROUGH CONSTRUCTION SHALL BE EXTENDED THROUGH THE MANHOLE. FOR PERMANENT DEAD-END MANHOLES, THE INVERT SHALL BE BOWL SHAPE.
3. EXTENDED BASE REQUIRED FOR ALL MANHOLES OVER 10' IN DEPTH.
4. IN INSTALLATION AREAS WHERE GROUNDWATER IS ENCOUNTERED, UPLIFT COMPUTATIONS & BALLASTING MAY BE REQUIRED.
5. BASE AND BASE SLAB SHALL BE MONOLITHIC.
6. ALL MANHOLE CONNECTIONS SHALL BE PREFABRICATED OR CORED WITH A CONCRETE CORING MACHINE.
7. ALL MANHOLES SHALL BE VACUUM TESTED.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	4' STANDARD MANHOLE	STD NO. SS-17
DATE	DESCRIPTION			



MINIMUM AVERAGE WEIGHT  
 RING 190  
 COVER 120  
 TOTAL 310

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	STANDARD MANHOLE FRAME & COVER	STD NO. SS-18
DATE	DESCRIPTION			



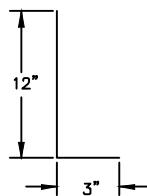
## PIER DETAIL

(NTS)

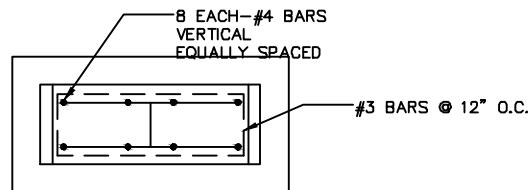
PIPE DIAMETER	H-PILE
8"	HP8-36 LBS/LF
10"	HP10-42 LBS/LF
12"	HP12-53 LBS/LF

NOTE:  
PILE SHALL BE DRIVEN TO REFUSAL  
ALL HARDWARE TO BE STAINLESS STEEL.

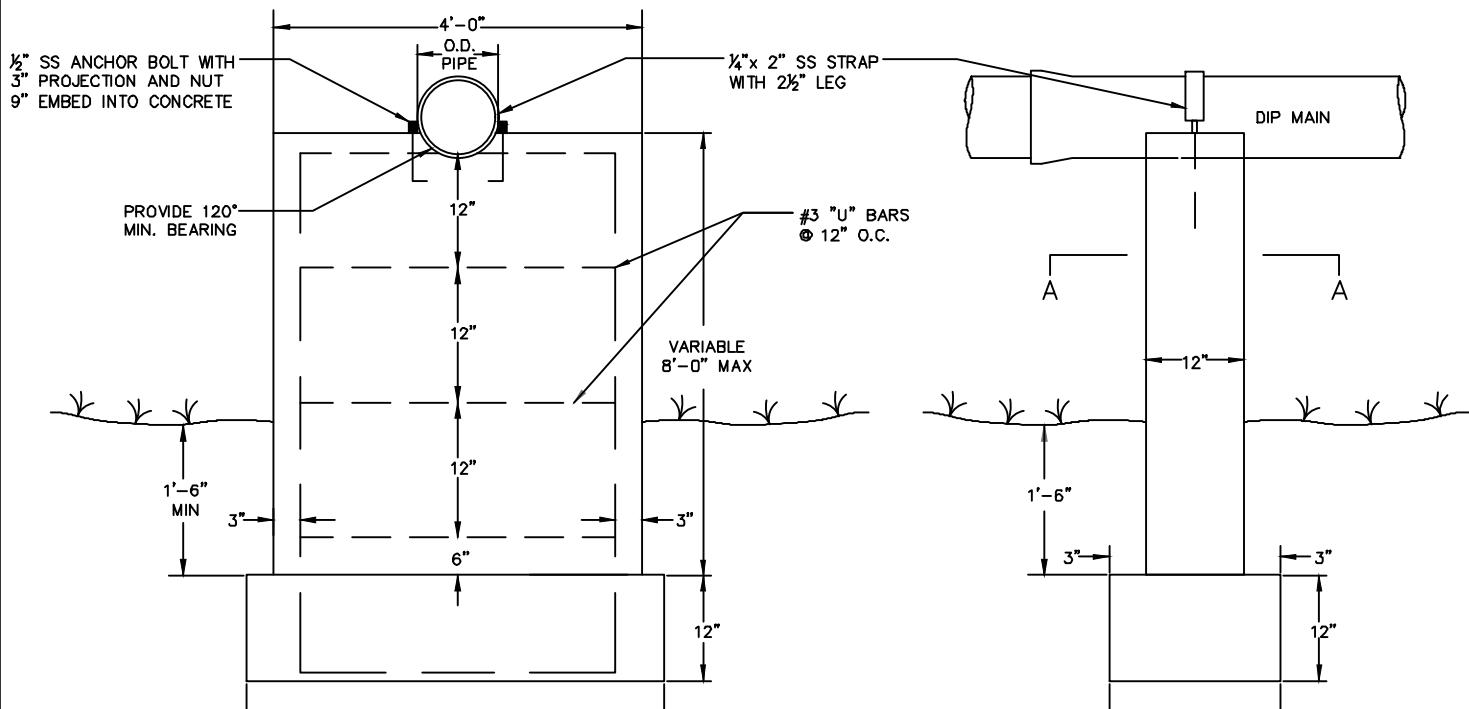
REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	AERIAL PIPE SUPPORT H-PILE	STD NO. SS-19
DATE	DESCRIPTION			



ANCHOR BOLT DETAIL



SECTION A-A



END VIEW

SIDE VIEW

AERIAL PIPE SUPPORTS DETAIL  
(NTS)

NOTE:

AT THE CONTRACTORS OPTION,  
IN LIEU OF FORMING THE 120° CONCRETE SADDLE,  
A STAINLESS STEEL PIPE SADDLE MAY BE PROVIDED.  
ALL HARDWARE TO BE STAINLESS STEEL.

REVISED		MOORE COUNTY PUBLIC WORKS ENGINEERING DIVISION	AERIAL PIPE SUPPORT REINFORCED CONCRETE	STD NO. SS-20
DATE	DESCRIPTION			