

			<u> </u>	
DIMENSIONS			QUANTITIES ONE HEADWALL	
DIAMETER	Н		CONCRETE CU. YDS.	REINFORCING STEEL LBS.
15"	5'-2"	7'-0"	1.7	41
18"	5'-5''	8'-4"	2.2	57
21"	5'-8"	9'-8"	2.8	62
24"	5'-11"	11'-0"	3.3	69
30"	6'-5"	13'-8"	4.7	92
36"	7'-0"	16'-4"	6.5	105

L CIRCULAR SECTIONS	= 5D + Rt
L ELLIPTICAL OR PIPE-ARCH	= 4R + 4t + 3
H CIRCULAR SECTIONS	= D + t + 44"
H ELLIPTICAL OR PIPE-ARCH	= R + t + 44"

D= DIAMETER OF PIPE

R= RISE OF PIPE

S= SPAN OF PIPE

T = THICKNESS OF BARREL

L= LENGTH OF HEADWALL

H= HEIGHT OF HEADWALL

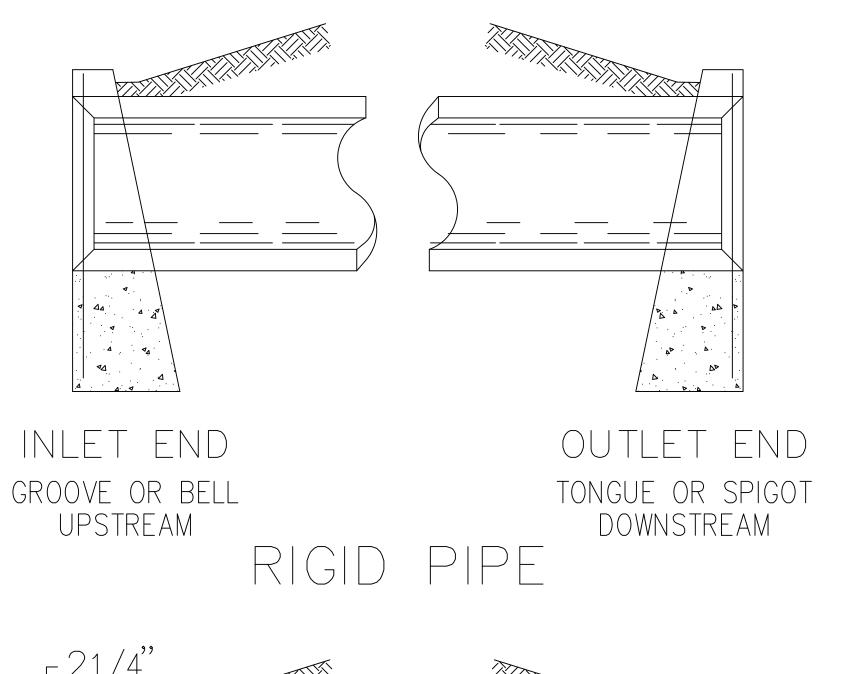
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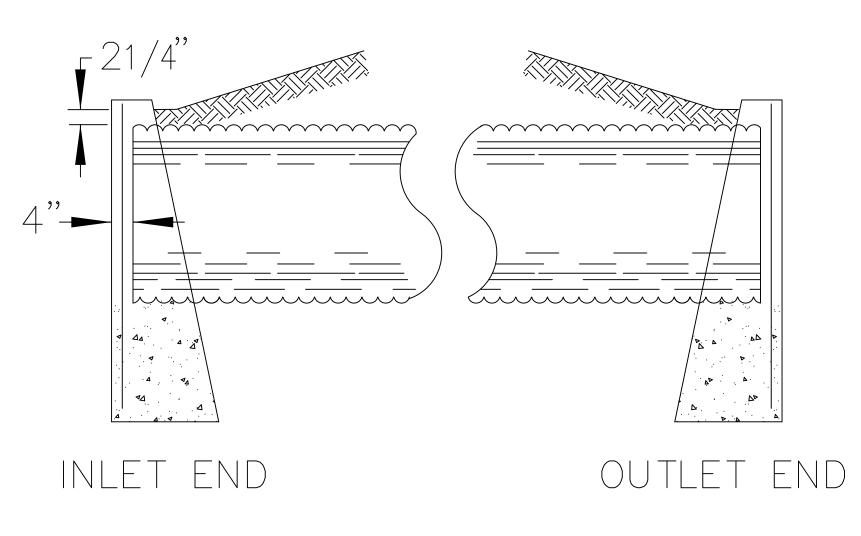
No. 1 HEADWALL Where required will be provided for nonskewed culverts having a diameter or rise of 36 inches or less.

CONCRETE shall be Class "C"
REINFORCING STEEL BARS shall be 5/8 inch round.

DIMENSIONS AND QUANTITIES are shown for circular sections only. It will be necessary to determine dimensions for the No. 1 headwall required for reinforced elliptical concrete pipe or corrugated metal pipe arches in accordance with the equations listed on this drawing. Chamfer all exposed corners 3/4 of an inch.

FOUNDATION. Where the soil borings indicate a bearing capacity of less than 2600 pounds per square foot, it will be necessary to increase the width of the base.





CORRUGATED PIPE

REINFORCING STEEL

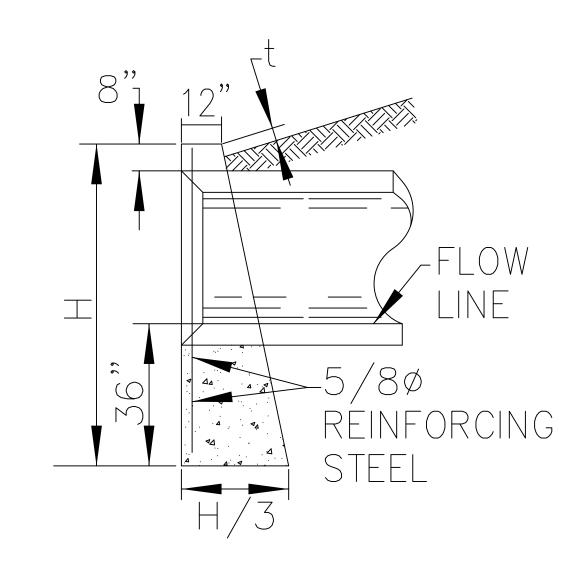
S/80

REINFORCING NOT TO EXCEED 2'-0"

5/80

REINFORCING STEEL

ELEVATION



SECTION A-A

END TREATMENT AT HEADWALL

STANDARD No. 1 HEADWALL