

12"	4"-
Flow Line	
36"	5/8" Dia. Reinforcing Steel
H/3	

CITY OF NORTHAIDGEVILLE, ENGINEER

SECTION A-A

DIMENSIONS		QUANTITIES ONE HEADWALL		
DIAMETER	H	L	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 + 4t

L ELLIPTICAL OR PIPE ARCH = 4R + 4t + S

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

NOTES

No. 1 headwall, where required, will be provided for nonskewed culverts having a diameter or rise of 36" or less.

Concrete shall be class "C".

Reinforcing steel bars shall be 5/8" round.

Dimension and quantities are shown for circular sections only. It will be necessary to determine dimensions for the No. 1 headwall required for other pipe shapes in accordance with the equations listed on this drawing.

Full height headwalls are required for all pipes.

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.

For headwall outlet protection, see STM-13.

All cast in place headwalls shall have a cement wash.

REV No. DATE BY DESCRIPTION CITY OF NORTH RIDGEVILLE, OHIO

DEPARTMENT OF ENGINEERING

STANDARD No. 1 HEADWALL

STM-10

SCALE: NOT TO SCALE

DATE: 10/01/08 | DRWN BY: JAB/TEB