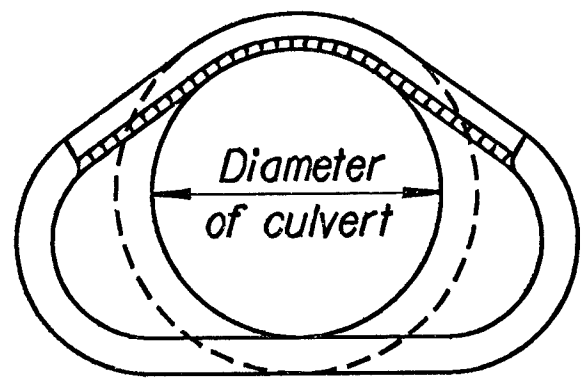




*Alternate
Opening
Shape*



A diagram of a circular track with two runners labeled 'R' at opposite ends of a diameter. The track is represented by two concentric circles, and the area between them is divided into segments by radial lines.

END SECTION (TYPE D) NOMINAL DIMENSIONS								
DiAm.	A	B [#]	C [#]	D	E	R ₁	Slope	T
12"	6'-0 7/8"	4'-0 7/8"	2'-0"	2'-0"	4"	9	3:1	2"
15"	6'-1"	3'-10"	2'-3"	2'-6"	6"	11	3:1	2 1/4"
18"	6'-1"	3'-10"	2'-3"	3'-0"	9"	12	3:1	2 1/2"
24"	6'-1 1/2"	2'-6"	3'-7 1/2"	4'-0"	9 1/2"	14	3:1	3"
30"	6'-1 3/4"	1'-7 3/4"	4'-6"	5'-0"	1'-0"	15	3:1	3 1/2"
36"	8'-1 3/4"	2'-10 3/4"	5'-3"	6'-0"	1'-3"	20	3:1	4"
42"	8'-2"	2'-11"	5'-3"	6'-6"	1'-9"	22	3:1	4 1/2"
48"	8'-2"	2'-2"	6'-0"	7'-0"	2'-0"	22	3:1	5"
54"	8'-2 1/4"	2'-9 1/4"	5'-5"	7'-6"	2'-3"	24	2.4 :1	5 1/2"
60"	8'-3"	3'-3"	5'-0"	8'-0"	2'-11"	24	2:1	6"
72"	8'-3"	1'-9"	6'-6"	9'-0"	3'-0"	24	1.86 :1	7"
84"	9'-3 1/2"	1'-9"	7'-6 1/2"	10'-0"	3'-0"	24	1.6 :1	8"

Diam.	Min. W.W.* Area Sq.Ft.	F	G	H	I	J	K	R	T
24"	4.5	4'-3"	2'-3"	1'-5 1/8"	2'-8"	1 1/2"	8"	1'-0"	3"
30"	7.0	4'-9 1/2"	2'-9 1/2"	1'-9 1/2"	3'-4"	2"	10"	1'-3"	3 1/2"
36"	10.1	5'-4"	3'-4"	2'-1 1/2"	4'-0"	2"	1'-0"	1'-6"	4"
42"	13.7	5'-10 1/2"	3'-10 1/2"	2'-5 1/8"	4'-8"	2 1/2"	1'-2"	1'-9"	4 1/2"
48"	17.9	6'-5"	4'-5"	2'-10 1/8"	5'-4"	3"	1'-4"	2'-0"	5"
54"	22.7	6'-11 1/2"	4'-11 1/2"	3'-2 1/2"	6'-0"	3 1/2"	1'-6"	2'-3"	5 1/2"
60"	28.0	7'-6"	5'-6"	3'-6 1/8"	6'-8"	4"	1'-8"	2'-6"	6"
72"	40.3	8'-7"	6'-7"	4'-3 5/8"	8'-0"	5"	2'-0"	3'-0"	7"
84"	54.8	9'-8"	7'-8"	5'-0 3/8"	9'-4"	6"	2'-4"	3'-6"	8"

Horizontal Roadway Lt.

Length of Pipe Lt.

2'-0"

6:1 or steeper

Road surface

1:1 or variable

Bar and steel fabric reinforcement

Double reinforcement for 36" and larger pipes

Diagram illustrating an alternate plan shape for a tapered beam. The beam has a top width labeled $G \#$ and a bottom width labeled T . The height is labeled "Greater than or equal to I ". The top surface is labeled "4:1 or flatter" and "Variable $\# \#$ ". The bottom surface is labeled "4". The text "Alternate Plan Shape" is written across the middle.

Bar and steel fabric reinforcement
Double reinforcement for 36" and larger pipes

6:1 or steeper

Bar and steel fabric reinforcement

Direction of flow

Technical drawing of a tapered shaft. The shaft has a constant diameter T for a length W , followed by a tapered section of length A that tapers to a diameter D . The tapered section is divided into two parts: $B \pm \dagger$ and $C \dagger$. The end section is labeled "End Section (Type I)" and features a rounded inside edge, with a note: "Round inside edge of end section, see Section A-A." An "Optional alternate shape" is also shown for the tapered section.

[illegible]

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