

ROUND PIPE

SLOPEWALL LENGTH DIMENSIONS			
PIPE SIZE D(IN)	3:1 SLOPE LENGTH (L)	4:1 SLOPE LENGTH (L)	END TAPER E (IN)
15	4'-3 3/4"	5'-9"	6
18	5'-1 1/2"	6' - 10"	6
24	6'-9"	9'-0"	6
30	6'-10 1/2"	9'-2"	12
36	8'-6"	11'-4"	12
42	10'- 1 1/2"	13'-6"	12
48	10'-3"	13'-8"	18
54	11'-10 1/2"	15'-10"	18
60	13'-6"	18'-0"	18

ALL DIMENSIONS ARE SHOWN IN FEET AND INCHES

$$L = \left(\frac{D+T+6-E}{12} \right) X$$

X = SLOPE OF EMBANKMENT
 D = INSIDE DIAMETER OF PIPE
 T = PIPE WALL THICKNESS
 E = END OF SLOPEWALL

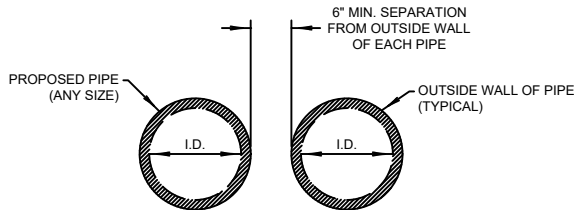
ELLIPTICAL PIPE

SLOPEWALL LENGTH DIMENSIONS			
ELLIPTICAL PIPE SIZE RISE x SPAN(IN)	3:1 SLOPE LENGTH (L)	4:1 SLOPE LENGTH (L)	END TAPER E (IN)
14x23	4'-2 1/4"	5'-7"	6
19x30	5'-6 3/4"	7'-5"	6
24x38	6'-11 1/4"	9'-3"	6
29x45	6'-10 1/2"	9'-2"	12
34x53	8'-3"	11'-0"	12
38x60	9'-4 1/2"	12'-6"	12
43x68	10'-9"	14'-4"	12
48x76	10'-7 1/2"	14'-2"	18

ALL DIMENSIONS ARE SHOWN IN FEET AND INCHES

$$L = \left(\frac{\text{RISE}+T+6-E}{12} \right) X$$

X = SLOPE OF EMBANKMENT
 RISE = INSIDE HEIGHT OF PIPE
 T = PIPE WALL THICKNESS
 E = END OF SLOPEWALL



B

Parallel Pipe Installation Detail

DESIGN DATA

CONCRETE (CLASS A)fc=3,000 psi
 REINFORCING STEEL (GR 60). .fs=60,000 psi

REVISION	BY	DATE	CONCRETE SLOPEWALL (2)	
			STANDARD DETAILS	
			CITY OF JENKS, OKLAHOMA	
			ENGINEERING DEPARTMENT	
			DATE: 4-24-23	STANDARD NO. STRM-23