


Dimension Table

S x H	12' x 12'	12' x 11'	12' x 10'	12' x 9'	12' x 8'	12' x 7'	12' x 6'	12' x 5'	12' x 4'	10' x 12'	10' x 11'	10' x 10'	10' x 9'	10' x 8'	10' x 7'	10' x 6'	10' x 5'	10' x 4'	8' x 10'	8' x 9'	8' x 8'	8' x 7'	8' x 6'	8' x 5'	8' x 4'	S x H	
A	37'-0	34'-0	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	37'-0	34'-0	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	A	
B	12'-4	11'-4	10'-4	9'-4	8'-4	7'-4	6'-4	5'-4	4'-4	12'-4	11'-4	10'-4	9'-4	8'-4	7'-4	6'-4	5'-4	4'-4	10'-4	9'-4	8'-4	7'-4	6'-4	5'-4	4'-4	B	
C	24'-8	22'-8	20'-8	18'-8	16'-8	14'-8	12'-8	10'-8	8'-8	24'-8	22'-8	20'-8	18'-8	16'-8	14'-8	12'-8	10'-8	8'-8	20'-8	18'-8	16'-8	14'-8	12'-8	10'-8	8'-8	C	
C1	28'-5 1/2	26'-2 1/2	23'-10 1/2	21'-6 1/2	19'-3	16'-11 1/2	14'-7 1/2	12'-3 1/2	10'-0 1/2	28'-5 1/2	26'-2 1/2	23'-10 1/2	21'-6 1/2	19'-3	16'-11 1/2	14'-7 1/2	12'-3 1/2	10'-0 1/2	23'-10 1/2	21'-6 1/2	19'-3	16'-11 1/2	14'-7 1/2	12'-3 1/2	10'-0 1/2	C1	
C2	27'-10 1/2	25'-7 1/2	23'-4 1/2	21'-0 1/2	18'-9 1/2	16'-6	14'-2 1/2	11'-10 1/2	9'-6 1/2	27'-10 1/2	25'-7 1/2	23'-4 1/2	21'-0 1/2	18'-9 1/2	16'-6	14'-2 1/2	11'-10 1/2	9'-6 1/2	23'-4 1/2	21'-0 1/2	18'-9 1/2	16'-6	14'-2 1/2	11'-10 1/2	9'-6 1/2	C2	
C3	3 1/2	3 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3 1/2	3 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	C3	
DL	12'-5 1/2	11'-5 1/2	10'-5 1/2	9'-5 1/2	8'-5 1/2	7'-5 1/2	6'-4 1/2	5'-4 1/2	4'-4 1/2	12'-5 1/2	11'-5 1/2	10'-5 1/2	9'-5 1/2	8'-5 1/2	7'-5 1/2	6'-4 1/2	5'-4 1/2	4'-4 1/2	10'-5 1/2	9'-5 1/2	8'-5 1/2	7'-5 1/2	6'-4 1/2	5'-4 1/2	4'-4 1/2	DL	
DS	9'-4	8'-6 1/2	7'-9 1/2	7'-0 1/2	6'-3 1/2	5'-6 1/2	4'-9 1/2	4'-0 1/2	3'-3 1/2	9'-4	8'-6 1/2	7'-9 1/2	7'-0 1/2	6'-3 1/2	5'-6 1/2	4'-9 1/2	4'-0 1/2	3'-3 1/2	7'-9 1/2	7'-0 1/2	6'-3 1/2	5'-6 1/2	4'-9 1/2	4'-0 1/2	3'-3 1/2	DS	
D1	35'-9 1/2	32'-10 1/2	29'-11 1/2	27'-0 1/2	24'-2 1/2	21'-3 1/2	18'-4 1/2	15'-5 1/2	12'-6 1/2	35'-9 1/2	32'-10 1/2	29'-11 1/2	27'-0 1/2	24'-2 1/2	21'-3 1/2	18'-4 1/2	15'-5 1/2	12'-6 1/2	29'-11 1/2	27'-0 1/2	24'-2 1/2	21'-3 1/2	18'-4 1/2	15'-5 1/2	12'-6 1/2	D1	
D2	10'-7	9'-8 1/2	8'-10 1/2	8'-0 1/2	7'-1 1/2	6'-3 1/2	5'-5 1/2	4'-6 1/2	3'-8 1/2	10'-7	9'-8 1/2	8'-10 1/2	8'-0 1/2	7'-1 1/2	6'-3 1/2	5'-5 1/2	4'-6 1/2	3'-8 1/2	8'-10 1/2	8'-0 1/2	7'-1 1/2	6'-3 1/2	5'-5 1/2	4'-6 1/2	3'-8 1/2	D2	
E	46'-9 1/2	44'-11 1/2	43'-1 1/2	41'-4 1/2	39'-6 1/2	37'-8 1/2	35'-11 1/2	34'-2 1/2	32'-5	42'-9 1/2	40'-11 1/2	39'-1 1/2	37'-4 1/2	35'-6 1/2	33'-8 1/2	31'-11 1/2	30'-2 1/2	28'-5	35'-1 1/2	33'-4 1/2	31'-6 1/2	29'-8 1/2	27'-11 1/2	26'-2 1/2	24'-5	E	
E1	54'-0 1/2	51'-11	49'-9 1/2	47'-8 1/2	45'-8 1/2	43'-6 1/2	41'-6 1/2	39'-5 1/2	37'-5 1/2	49'-5 1/2	47'-3 1/2	45'-2	43'-1 1/2	41'-0 1/2	38'-11 1/2	36'-10 1/2	34'-10 1/2	32'-9 1/2	40'-6 1/2	38'-6	36'-5 1/2	34'-3 1/2	32'-3 1/2	30'-2 1/2	28'-2 1/2	E1	
FL	12'-9 1/2	11'-9 1/2	10'-9 1/2	9'-9 1/2	8'-9 1/2	7'-9 1/2	6'-8 1/2	5'-8 1/2	4'-8 1/2	12'-9 1/2	11'-9 1/2	10'-9 1/2	9'-9 1/2	8'-9 1/2	7'-9 1/2	6'-8 1/2	5'-8 1/2	4'-8 1/2	10'-9 1/2	9'-9 1/2	8'-9 1/2	7'-9 1/2	6'-8 1/2	5'-8 1/2	4'-8 1/2	FL	
F5	9'-8	8'-10 1/2	8'-1 1/2	7'-4 1/2	6'-7 1/2	5'-10 1/2	5'-1 1/2	4'-4 1/2	3'-7 1/2	9'-8	8'-10 1/2	8'-1 1/2	7'-4 1/2	6'-7 1/2	5'-10 1/2	5'-1 1/2	4'-4 1/2	3'-7 1/2	8'-1 1/2	7'-4 1/2	6'-7 1/2	5'-10 1/2	5'-1 1/2	4'-4 1/2	3'-7 1/2	F5	
F1	21'-11 1/2	20'-2 1/2	18'-5 1/2	16'-8 1/2	14'-11 1/2	13'-2 1/2	11'-5 1/2	9'-8 1/2	7'-11 1/2	21'-11 1/2	20'-2 1/2	18'-5 1/2	16'-8 1/2	14'-11 1/2	13'-2 1/2	11'-5 1/2	9'-8 1/2	7'-11 1/2	18'-5 1/2	16'-8 1/2	14'-11 1/2	13'-2 1/2	11'-5 1/2	9'-8 1/2	7'-11 1/2	F1	
F2	4'-0 1/2	3'-9	3'-5 1/2	3'-1 1/2	2'-10 1/2	2'-6 1/2	2'-3 1/2	1'-11 1/2	1'-8	4'-0 1/2	3'-9	3'-5 1/2	3'-1 1/2	2'-10 1/2	2'-6 1/2	2'-3 1/2	1'-11 1/2	1'-8	3'-5 1/2	3'-1 1/2	2'-10 1/2	2'-6 1/2	2'-3 1/2	1'-11 1/2	1'-8	F2	
G	24'-4	24'-3	24'-2	24'-2	24'-2	24'-1	24'-1	24'-1	24'-1	20'-4	20'-3	20'-2	20'-2	20'-1	20'-1	20'-1	20'-1	16'-2	16'-2	16'-2	16'-1	16'-1	16'-1	16'-1	16'-1	G	
G1	28'-1 1/2	28'-0	27'-10 1/2	27'-10 1/2	27'-10 1/2	27'-9 1/2	27'-9 1/2	27'-9 1/2	27'-9 1/2	23'-5 1/2	23'-4 1/2	23'-3 1/2	23'-3 1/2	23'-3 1/2	23'-2 1/2	23'-2 1/2	23'-2 1/2	18'-8	18'-8	18'-8	18'-8	18'-6 1/2	18'-6 1/2	18'-6 1/2	18'-6 1/2	G1	
G2	29'-4	29'-2 1/2	29'-1 1/2	29'-1 1/2	29'-1 1/2	29'-0 1/2	29'-0 1/2	29'-0	28'-11 1/2	24'-8 1/2	24'-7 1/2	24'-6 1/2	24'-6 1/2	24'-6	24'-4 1/2	24'-4 1/2	24'-4 1/2	19'-10 1/2	19'-10 1/2	19'-10 1/2	19'-9 1/2	19'-9 1/2	19'-9 1/2	19'-9 1/2	19'-9	G2	
G3	25'-1 1/2	23'-1 1/2	21'-1 1/2	19'-1 1/2	17'-1 1/2	15'-1 1/2	13'-1	11'-0 1/2	9'-0 1/2	25'-1 1/2	23'-1 1/2	21'-1 1/2	19'-1 1/2	17'-1 1/2	15'-1 1/2	13'-1	11'-0 1/2	9'-0 1/2	21'-1 1/2	19'-1 1/2	17'-1 1/2	15'-1 1/2	13'-1	11'-0 1/2	9'-0 1/2	G3	
G4	25'-7 1/2	23'-4 1/2	21'-0 1/2	19'-0 1/2	17'-0 1/2	14'-8 1/2	12'-8 1/2	10'-8 1/2	8'-8 1/2	25'-7 1/2	23'-4 1/2	21'-0 1/2	19'-0 1/2	17'-0 1/2	14'-8 1/2	12'-8 1/2	10'-8 1/2	8'-8 1/2	21'-0 1/2	19'-0 1/2	17'-0 1/2	14'-8 1/2	12'-8 1/2	10'-8 1/2	8'-8 1/2	G4	
G5	12'-11 1/2	11'-11 1/2	10'-10 1/2	9'-10 1/2	8'-9 1/2	7'-9 1/2	6'-8 1/2	5'-8 1/2	4'-7 1/2	12'-11 1/2	11'-11 1/2	10'-10 1/2	9'-10 1/2	8'-9 1/2	7'-9 1/2	6'-8 1/2	5'-8 1/2	4'-7 1/2	10'-10 1/2	9'-10 1/2	8'-9 1/2	7'-9 1/2	6'-8 1/2	5'-8 1/2	4'-7 1/2	G5	
G6	14'-3 1/2	13'-0 1/2	11'-10 1/2	10'-10 1/2	9'-9 1/2	8'-7 1/2	7'-7	6'-6 1/2	5'-6 1/2	14'-3 1/2	13'-0 1/2	11'-10 1/2	10'-10 1/2	9'-9 1/2	8'-7 1/2	7'-7	6'-6 1/2	5'-6 1/2	11'-10 1/2	10'-10 1/2	9'-9 1/2	8'-7 1/2	7'-7	6'-6 1/2	5'-6 1/2	G6	
G7	2 1/2	5 1/2	8 1/2	8 1/2	8 1/2	1'-0 1/2	1'-0	1'-0	11 1/2	2 1/2	5 1/2	8 1/2	8 1/2	8 1/2	1'-0 1/2	1'-0	1'-0	11 1/2	8 1/2	8 1/2	8 1/2	1'-0 1/2	1'-0	1'-0	11 1/2	G7	
G8	4 1/2	6 1/2	7 1/2	7 1/2	7 1/2	9	9	9	9	4 1/2	6 1/2	7 1/2	7 1/2	9	9	9	9	7 1/2	7 1/2	7 1/2	9	9	9	9	9	G8	
K	25'-0	24'-11	24'-10	24'-10	24'-10	24'-9	24'-9	24'-9	24'-9	21'-0	20'-11	20'-10	20'-10	20'-10	20'-9	20'-9	20'-9	16'-10	16'-10	16'-10	16'-9	16'-9	16'-9	16'-9	16'-9	K	
K1	28'-10 1/2	28'-9 1/2	28'-8 1/2	28'-8 1/2	28'-8 1/2	28'-7	28'-7	28'-7	28'-7	24'-3	24'-1 1/2	24'-0 1/2	24'-0 1/2	24'-0 1/2	23'-11 1/2	23'-11 1/2	23'-11 1/2	19'-5 1/2	19'-5 1/2	19'-5 1/2	19'-4 1/2	19'-4 1/2	19'-4 1/2	19'-4 1/2	19'-4 1/2	K1	
PL	51'-5 1/2	47'-3 1/2	43'-1 1/2	38'-11 1/2	34'-9 1/2	30'-7 1/2	26'-5 1/2	22'-3 1/2	18'-1	51'-5 1/2	47'-3 1/2	43'-1 1/2	38'-11 1/2	34'-9 1/2	30'-7 1/2	26'-5 1/2	22'-3 1/2	18'-1	43'-1 1/2	38'-11 1/2	34'-9 1/2	30'-7 1/2	26'-5 1/2	22'-3 1/2	18'-1	PL	
P5	38'-5 1/2	35'-4 1/2	32'-2 1/2	29'-1 1/2	26'-0	22'-10 1/2	19'-9 1/2	16'-7 1/2	13'-6 1/2	38'-5 1/2	35'-4 1/2	32'-2 1/2	29'-1 1/2	26'-0	22'-10 1/2	19'-9 1/2	16'-7 1/2	13'-6 1/2	32'-2 1/2	29'-1 1/2	26'-0	22'-10 1/2	19'-9 1/2	16'-7 1/2	13'-6 1/2	P5	
RL	52'-11 1/2	48'-7 1/2	44'-4 1/2	40'-0 1/2	35'-9 1/2	31'-5 1/2	27'-2 1/2	22'-10 1/2	18'-7 1/2	52'-11 1/2	48'-7 1/2	44'-4 1/2	40'-0 1/2	35'-9 1/2	31'-5 1/2	27'-2 1/2	22'-10 1/2	18'-7 1/2	44'-4 1/2	40'-0 1/2	35'-9 1/2	31'-5 1/2	27'-2 1/2	22'-10 1/2	18'-7 1/2	RL	
RS	40'-5	37'-1 1/2	33'-10 1/2	30'-7	27'-3 1/2	24'-0 1/2	20'-9	17'-5 1/2	14'-2 1/2	40'-5	37'-1 1/2	33'-10 1/2	30'-7	27'-3 1/2	24'-0 1/2	20'-9	17'-5 1/2	14'-2 1/2	33'-10 1/2	30'-7	27'-3 1/2	24'-0 1/2	20'-9	17'-5 1/2	14'-2 1/2	RS	
R1	30'-0	27'-6 1/2	25'-0 1/2	22'-6 1/2	20'-0 1/2	17'-6 1/2	15'-0 1/2	12'-6 1/2	10'-0 1/2	30'-0	27'-6 1/2	25'-0 1/2	22'-6 1/2	20'-0 1/2	17'-6 1/2	15'-0 1/2	12'-6 1/2	10'-0 1/2	25'-0 1/2	22'-6 1/2	20'-0 1/2	17'-6 1/2	15'-0 1/2	12'-6 1/2	10'-0 1/2	R1	
S1	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	11'-6 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	S1	
T	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	T
U	1'-0	11	10	10	10	9	9	9	9	1'-0	11	10	10	10	9	9	9	9	10	10	10	9	9	9	9	9	U
V	1'-0	11	10	10	10	9	9	9	9	1'-0	11	10	10	10	9	9	9	9	10	10	10	9	9	9	9	9	V
V1	1'-1 1/2	1'-0 1/2	11 1/2	11 1/2	11 1/2	10 1/2	10 1/2	10 1/2	1'-1 1/2	1'-0 1/2	11 1/2	11 1/2	11 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	11 1/2	11 1/2	11 1/2	10 1/2	10 1/2	10 1/2	10 1/2	V1	
W	5'-0	4'-9	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	5'-0	4'-9	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	W	

- Notes:
- See Sheet TWFH G1-21 for General Notes, Specifications, and Design Stresses.
 - See Sheet TWFH 30-1-21 and sheets TWFH 30-3-21 thru 30-5-21 for location of certain dimensions tabulated.
 - Dimensions are in feet and inches unless otherwise noted.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER	 Standard Design - Twin Reinforced Concrete Box Culverts <h3 style="margin: 0;">Flared Wing Headwalls</h3> <p style="margin: 0;">February, 2021</p>		
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Dimension Table 30° Skew</td> <td style="width: 50%; text-align: center;">TWFH 30-2-21</td> </tr> </table>	Dimension Table 30° Skew	TWFH 30-2-21
Dimension Table 30° Skew	TWFH 30-2-21			

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