


ENGLISHRFDDESIGNEDTWINCULVERTS.DGN - TWPWH 45-2-20 - THIS SHEET ISSUED 07-2020.

		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'	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	A	
C1	52'-3 3/8	48'-1	43'-10 1/2	39'-7 1/2	35'-4 1/2	31'-1 1/2	26'-10 1/2	22'-7 1/2	18'-4 1/2	52'-3 3/8	48'-1	43'-10 1/2	39'-7 1/2	35'-4 1/2	31'-1 1/2	26'-10 1/2	22'-7 1/2	18'-4 1/2	C1	
C2	51'-3 3/8	47'-1	43'-0 1/2	38'-9 1/2	34'-6 1/2	30'-4 1/2	26'-1 1/2	21'-10 1/2	17'-7 1/2	51'-3 3/8	47'-1	43'-0 1/2	38'-9 1/2	34'-6 1/2	30'-4 1/2	26'-1 1/2	21'-10 1/2	17'-7 1/2	C2	
C3	6	6	5	5	5	4 1/2	4 1/2	4 1/2	4 1/2	6	6	5	5	5	4 1/2	4 1/2	4 1/2	4 1/2	C3	
H	12'-0	11'-0	10'-0	9'-0	8'-0	7'-0	6'-0	5'-0	4'-0	12'-0	11'-0	10'-0	9'-0	8'-0	7'-0	6'-0	5'-0	4'-0	H	
K	25'-0	25'-0	24'-10	24'-10	24'-10	24'-9	24'-9	24'-9	24'-9	21'-0	21'-0	20'-10	20'-10	20'-10	20'-9	20'-9	20'-9	20'-9	K	
K1	35'-4 1/2	35'-4 1/2	35'-1 3/8	35'-1 3/8	35'-1 3/8	35'-0	35'-0	35'-0	35'-0	29'-8 1/2	29'-8 1/2	29'-5 1/2	29'-5 1/2	29'-5 1/2	29'-4 1/2	29'-4 1/2	29'-4 1/2	29'-4 1/2	K1	
P	52'-3 3/8	48'-1	43'-10 1/2	39'-7 1/2	35'-4 1/2	31'-1 1/2	26'-10 1/2	22'-7 1/2	18'-4 1/2	52'-3 3/8	48'-1	43'-10 1/2	39'-7 1/2	35'-4 1/2	31'-1 1/2	26'-10 1/2	22'-7 1/2	18'-4 1/2	P	
R	53'-9 1/2	49'-4 1/2	45'-0 1/2	40'-8 1/2	36'-3 1/2	31'-11 1/2	27'-7 1/2	23'-3	18'-10 1/2	53'-9 1/2	49'-4 1/2	45'-0 1/2	40'-8 1/2	36'-3 1/2	31'-11 1/2	27'-7 1/2	23'-3	18'-10 1/2	R	
R1	52'-5 1/2	48'-1 1/2	43'-11 1/2	39'-7	35'-2 1/2	30'-11 1/2	26'-7 1/2	22'-2 1/2	17'-10 1/2	52'-5 1/2	48'-1 1/2	43'-11 1/2	39'-7	35'-2 1/2	30'-11 1/2	26'-7 1/2	22'-2 1/2	17'-10 1/2	R1	
S	12'-0	12'-0	12'-0	12'-0	12'-0	12'-0	12'-0	12'-0	12'-0	10'-0	10'-0	10'-0	10'-0	10'-0	10'-0	10'-0	10'-0	10'-0	S	
S1	16'-11 1/2	16'-11 1/2	16'-11 1/2	16'-11 1/2	16'-11 1/2	16'-11 1/2	16'-11 1/2	16'-11 1/2	16'-11 1/2	14'-1 1/2	14'-1 1/2	14'-1 1/2	14'-1 1/2	14'-1 1/2	14'-1 1/2	14'-1 1/2	14'-1 1/2	14'-1 1/2	S1	
T	1'-2	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	T	
U	1'-0	1'-0	10	10	10	10	9	9	9	1'-0	1'-0	10	10	10	9	9	9	9	U	
V	1'-0	1'-0	10	10	10	10	9	9	9	1'-0	1'-0	10	10	10	9	9	9	9	V	
V1	1'-5	1'-5	1'-2 1/2	1'-2 1/2	1'-2 1/2	1'-0 1/2	1'-0 1/2	1'-0 1/2	1'-0 1/2	1'-5	1'-5	1'-2 1/2	1'-2 1/2	1'-2 1/2	1'-0 1/2	1'-0 1/2	1'-0 1/2	1'-0 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	W	
B	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	B	
C	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	9	9	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	9	9	C	
D	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	D	
E	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	E	

		Dimension Table										
S x H	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	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	A				
C1	43'-10 1/2	39'-7 1/2	35'-4 1/2	31'-1 1/2	26'-10 1/2	22'-7 1/2	18'-4 1/2	C1				
C2	43'-0 1/2	38'-9 1/2	34'-6 1/2	30'-4 1/2	26'-1 1/2	21'-10 1/2	17'-7 1/2	C2				
C3	5	5	5	4 1/2	4 1/2	4 1/2	4 1/2	C3				
H	10'-0	9'-0	8'-0	7'-0	6'-0	5'-0	4'-0	H				
K	16'-10	16'-10	16'-10	16'-9	16'-9	16'-9	16'-9	K				
K1	23'-9 1/2	23'-9 1/2	23'-9 1/2	23'-8 1/2	23'-8 1/2	23'-8 1/2	23'-8 1/2	K1				
P	43'-10 1/2	39'-7 1/2	35'-4 1/2	31'-1 1/2	26'-10 1/2	22'-7 1/2	18'-4 1/2	P				
R	45'-0 1/2	40'-8 1/2	36'-3 1/2	31'-11 1/2	27'-7 1/2	23'-3	18'-10 1/2	R				
R1	43'-11 1/2	39'-7	35'-2 1/2	30'-11 1/2	26'-7 1/2	22'-2 1/2	17'-10 1/2	R1				
S	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	S				
S1	11'-3 1/2	11'-3 1/2	11'-3 1/2	11'-3 1/2	11'-3 1/2	11'-3 1/2	11'-3 1/2	S1				
T	11	11	11	11	11	11	11	T				
U	10	10	10	9	9	9	9	U				
V	10	10	10	9	9	9	9	V				
V1	1'-2 1/2	1'-2 1/2	1'-2 1/2	1'-0 1/2	1'-0 1/2	1'-0 1/2	1'-0 1/2	V1				
W	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	W				
B	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	B				
C	1'-0	1'-0	9	9	9	1'-0	1'-0	C				
D	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	D				
E	6	6	6	6	6	9	9	E				

**Notes:**

1. See Sheet TWRCB G2-20 for General Notes, Specifications, and Design Stresses.
2. See Sheets TWPWH 45-1-20 and Sheets TWPWH 45-3-20 thru 45-6-20 for location of certain dimensions tabulated.
3. Dimensions are in feet and inches unless otherwise noted.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER	 Standard Design - Twin Reinforced Concrete Box Culverts <b>Parallel Wing Headwalls</b> July, 2020	
		<b>Dimension Table</b> 45° Skew	TWPWH 45-2-20