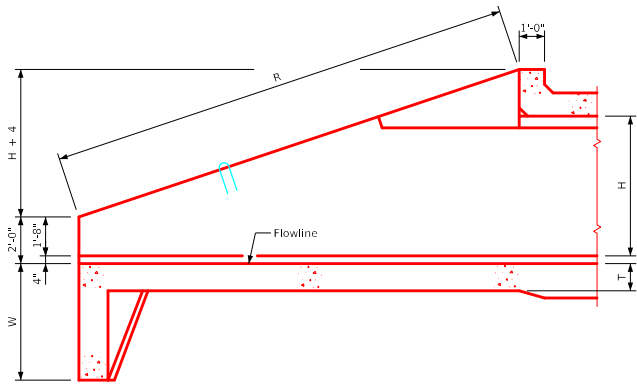
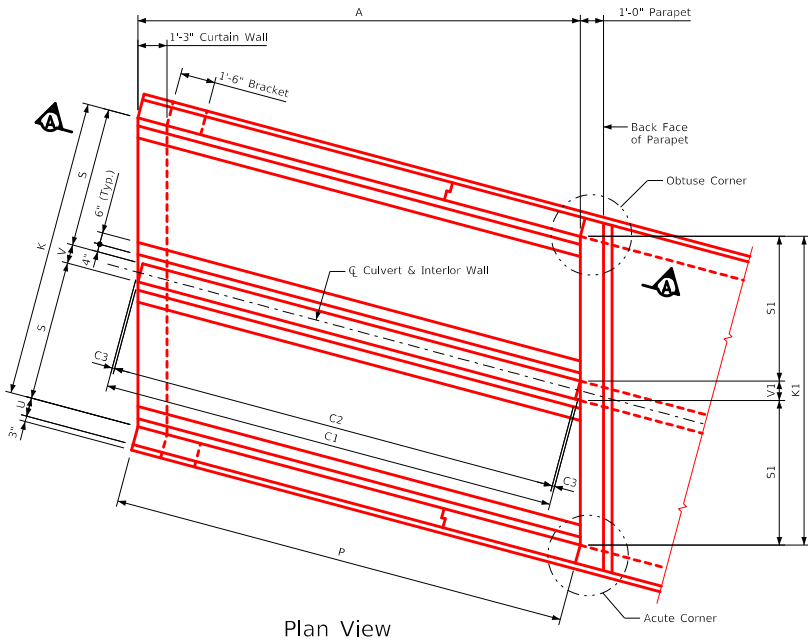


ENGLISHRFDDESIGNEDTWINCULVERTS.DGN - TWPWH 15-1-20 - THIS SHEET ISSUED 07-2020.



Elevation Section A-A



Plan View

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	38'-3/8	35'-2 1/2	32'-1 1/2	28'-11 1/2	25'-10 1/2	22'-9 1/2	19'-8	16'-6 1/2	13'-5 1/2	38'-3/8	35'-2 1/2	32'-1 1/2	28'-11 1/2	25'-10 1/2	22'-9 1/2	19'-8	16'-6 1/2	13'-5 1/2	C1
C2	38'-0 1/2	34'-1 1/2	31'-1 1/2	28'-9 1/2	25'-7 1/2	22'-6 1/2	19'-5 1/2	16'-4 1/2	13'-3	38'-0 1/2	34'-1 1/2	31'-1 1/2	28'-9 1/2	25'-7 1/2	22'-6 1/2	19'-5 1/2	16'-4 1/2	13'-3	C2
C3	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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	25'-10 1/2	25'-10 1/2	25'-8 1/2	25'-8 1/2	25'-8 1/2	25'-7 1/2	25'-7 1/2	25'-7 1/2	25'-7 1/2	21'-8 1/2	21'-8 1/2	21'-6 1/2	21'-6 1/2	21'-6 1/2	21'-5 1/2	21'-5 1/2	21'-5 1/2	21'-5 1/2	K1
P	38'-3/8	35'-2 1/2	32'-1 1/2	28'-11 1/2	25'-10 1/2	22'-9 1/2	19'-8	16'-6 1/2	13'-5 1/2	38'-3/8	35'-2 1/2	32'-1 1/2	28'-11 1/2	25'-10 1/2	22'-9 1/2	19'-8	16'-6 1/2	13'-5 1/2	P
R	40'-2 1/2	36'-1 1/2	33'-1 1/2	30'-5 1/2	27'-2 1/2	23'-11 1/2	20'-8	17'-4 1/2	14'-1 1/2	40'-2 1/2	36'-1 1/2	33'-1 1/2	30'-5 1/2	27'-2 1/2	23'-11 1/2	20'-8	17'-4 1/2	14'-1 1/2	R
R1	39'-7 1/2	36'-4	33'-1 1/2	29'-10 1/2	26'-7 1/2	23'-4 1/2	20'-1 1/2	16'-10 1/2	13'-7 1/2	39'-7 1/2	36'-4	33'-1 1/2	29'-10 1/2	26'-7 1/2	23'-4 1/2	20'-1 1/2	16'-10 1/2	13'-7 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	12'-5 1/2	12'-5 1/2	12'-5 1/2	12'-5 1/2	12'-5 1/2	12'-5 1/2	12'-5 1/2	12'-5 1/2	12'-5 1/2	10'-4 1/2	10'-4 1/2	10'-4 1/2	10'-4 1/2	10'-4 1/2	10'-4 1/2	10'-4 1/2	10'-4 1/2	10'-4 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	9	9	9	9	1'-0	1'-0	10	10	10	9	9	9	9	U
V	1'-0	1'-0	10	10	10	9	9	9	9	1'-0	1'-0	10	10	10	9	9	9	9	V
V1	1'-0 1/2	1'-0 1/2	10 1/2	10 1/2	10 1/2	9 1/2	9 1/2	9 1/2	9 1/2	1'-0 1/2	1'-0 1/2	10 1/2	10 1/2	10 1/2	9 1/2	9 1/2	9 1/2	9 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	1'-0	1'-0	B
C	1'-0	1'-0	1'-0	1'-0	9	9	9	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	9	1'-0	1'-0	1'-0	C
D	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	9	1'-0	6	6	1'-0	9	1'-0	1'-0	1'-0	1'-0	1'-0	D
E	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	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	32'-1 1/2	28'-11 1/2	25'-10 1/2	22'-9 1/2	19'-8	16'-6 1/2	13'-5 1/2	C1
C2	31'-10 1/2	28'-9 1/2	25'-7 1/2	22'-6 1/2	19'-5 1/2	16'-4 1/2	13'-3	C2
C3	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 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	17'-5 1/2	17'-5 1/2	17'-5 1/2	17'-4 1/2	17'-4 1/2	17'-4 1/2	17'-4 1/2	K1
P	32'-1 1/2	28'-11 1/2	25'-10 1/2	22'-9 1/2	19'-8	16'-6 1/2	13'-5 1/2	P
R	33'-8 1/2	30'-5 1/2	27'-2 1/2	23'-11 1/2	20'-8	17'-4 1/2	14'-1 1/2	R
R1	33'-1 1/2	29'-10 1/2	26'-7 1/2	23'-4 1/2	20'-1 1/2	16'-10 1/2	13'-7 1/2	R1
S	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	S
S1	8'-3 1/2	8'-3 1/2	8'-3 1/2	8'-3 1/2	8'-3 1/2	8'-3 1/2	8'-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	10 1/2	10 1/2	10 1/2	9 1/2	9 1/2	9 1/2	9 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	1'-0	1'-0	B
C	1'-0	1'-0	9	9	9	1'-0	1'-0	C
D	6	6	9	1'-0	1'-0	1'-0	1'-0	D
E	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	E

Notes:

1. See Sheet TWRCB G2-20 for General Notes, Specifications, and Design Stresses.
2. See Sheets TWPWH 15-2-20 thru 15-5-20 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	
		Parallel Wing Headwalls	
		July, 2020	
		Dimension Table 15° Skew	TWPWH 15-1-20