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
Headwall Dimensions	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'-3⅜	48'-1	43'-10⅛	39'-7⅛	35'-4¼	31'-1⅜	26'-10½	22'-7½	18'-4⅝	52'-3⅜	48'-1	43'-10⅛	39'-7⅛	35'-4¼	31'-1⅜	26'-10½	22'-7½	18'-4⅝	C1
	C2	51'-3⅜	47'-1	43'-0⅛	38'-9⅛	34'-6¼	30'-4⅜	26'-1½	21'-10½	17'-7⅝	51'-3⅜	47'-1	43'-0⅛	38'-9⅛	34'-6¼	30'-4⅜	26'-1½	21'-10½	17'-7⅝	C2
	C3	6	6	5	5	5	4½	4½	4½	4½	6	6	5	5	5	4½	4½	4½	4½	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'-4¼	35'-4¼	35'-1⅜	35'-1⅜	35'-1⅜	35'-0	35'-0	35'-0	35'-0	29'-8½	29'-8½	29'-5⅝	29'-5⅝	29'-5⅝	29'-4¼	29'-4¼	29'-4¼	29'-4¼	K1
	P	52'-3⅜	48'-1	43'-10⅛	39'-7⅛	35'-4¼	31'-1⅜	26'-10½	22'-7½	18'-4⅝	52'-3⅜	48'-1	43'-10⅛	39'-7⅛	35'-4¼	31'-1⅜	26'-10½	22'-7½	18'-4⅝	P
	R	53'-9⅛	49'-4¾	45'-0½	40'-8¼	36'-3⅜	31'-11⅝	27'-7¼	23'-3	18'-10⅝	53'-9⅛	49'-4¾	45'-0½	40'-8¼	36'-3⅜	31'-11⅝	27'-7¼	23'-3	18'-10⅝	R
	R1	52'-5⅛	48'-1⅝	43'-11¼	39'-7	35'-2¾	30'-11⅜	26'-7⅛	22'-2⅞	17'-10⅝	52'-5⅛	48'-1⅝	43'-11¼	39'-7	35'-2¾	30'-11⅜	26'-7⅛	22'-2⅞	17'-10⅝	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'-11⅝	16'-11⅝	16'-11⅝	16'-11⅝	16'-11⅝	16'-11⅝	16'-11⅝	16'-11⅝	16'-11⅝	14'-1¾	14'-1¾	14'-1¾	14'-1¾	14'-1¾	14'-1¾	14'-1¾	14'-1¾	14'-1¾	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'-5	1'-5	1'-2⅛	1'-2⅛	1'-2⅛	1'-0¾	1'-0¾	1'-0¾	1'-0¾	1'-5	1'-5	1'-2⅛	1'-2⅛	1'-2⅛	1'-0¾	1'-0¾	1'-0¾	1'-0¾	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
Bar Spacing	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	9	9	9	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	9	1'-0	C
	D	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	6	6	6	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
Headwall Dimensions	A	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	A
	C1	43'-10⅛	39'-7⅛	35'-4¼	31'-1⅜	26'-10½	22'-7½	18'-4⅝	C1
	C2	43'-0⅛	38'-9⅛	34'-6¼	30'-4⅜	26'-1½	21'-10½	17'-7⅝	C2
	C3	5	5	5	4½	4½	4½	4½	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'-9⅝	23'-9⅝	23'-9⅝	23'-8¼	23'-8¼	23'-8¼	23'-8¼	K1
	P	43'-10⅛	39'-7⅛	35'-4¼	31'-1⅜	26'-10½	22'-7½	18'-4⅝	P
	R	45'-0½	40'-8¼	36'-3⅜	31'-11⅝	27'-7¼	23'-3	18'-10⅝	R
	R1	43'-11¼	39'-7	35'-2¾	30'-11⅜	26'-7⅛	22'-2⅞	17'-10⅝	R1
	S	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	S
	S1	11'-3¾	11'-3¾	11'-3¾	11'-3¾	11'-3¾	11'-3¾	11'-3¾	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'-2⅛	1'-2⅛	1'-2⅛	1'-0¾	1'-0¾	1'-0¾	1'-0¾	V1
	W	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	W
Bar Spacing	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

IOWADOT

Standard Design - Twin Reinforced Concrete Box Culverts

Parallel Wing Headwalls

July, 2020

Dimension Table
45° Skew

TWPWH
45-2-20

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