

Note to Designer:
 The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO.	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	Original Issue	S.U.H.	2-12
2	Added 3'-4.5' height for existing box extensions only	D.B.B.	5-15
3			
4			

		DIMENSIONS																																									
Span	Hgt.	0° Skew			5° Skew					10° Skew					15° Skew					20° Skew				25° Skew				30° Skew				35° Skew				40° Skew				45° Skew			
		A	B	C	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
6'	3'	9'-10 1/2"	4'-8 1/4"	3'-7 1/4"	10'-0 1/2"	4'-8 1/2"	2'-8 1/4"	4'-8 3/4"	10'-1 1/4"	10'-1 1/4"	4'-9 1/4"	1'-9 3/8"	5'-8 1/4"	9'-10 1/2"	10'-1 1/4"	4'-10 1/4"	10 1/8"	6'-11 1/4"	9'-10 1/2"	10'-0"	4'-11 1/4"	8'-2 1/2"	9'-9 1/4"	9'-0"	5'-2 1/2"	9'-6 1/2"	9'-6 1/2"	8'-6"	5'-6 1/2"	10'-11 1/4"	9'-2 1/4"	7'-6"	5'-10 1/2"	12'-4 1/2"	8'-8 1/4"	7'-0"	6'-4 1/2"	14'-4 1/2"	8'-3 1/2"	7'-0"	6'-11 1/4"	16'-6 1/2"	7'-8 1/2"
	4'	12'-3 1/2"	4'-8 1/4"	4'-5 1/2"	12'-5 1/2"	4'-8 1/2"	3'-4 1/8"	5'-9 1/2"	12'-5"	12'-6 1/2"	4'-9 1/4"	2'-2 1/8"	6'-11 1/4"	12'-0 1/2"	12'-1"	4'-10 1/4"	1'-0 1/8"	8'-4 1/8"	11'-1 1/4"	12'-0"	4'-11 1/4"	9'-9 1/4"	11'-8 1/4"	11'-0"	5'-2 1/2"	11'-3 1/4"	11'-3 1/4"	10'-6"	5'-6 1/2"	13'-2 1/2"	11'-1 1/4"	9'-6"	5'-10 1/2"	14'-10 1/4"	10'-4 1/4"	9'-0"	6'-4 1/2"	16'-11 1/4"	9'-9 1/4"	8'-6"	6'-11 1/4"	19'-8 1/4"	9'-2 1/2"
	5'	14'-7 1/4"	4'-8 1/4"	5'-3 1/4"	14'-10 1/2"	4'-8 1/2"	3'-1 1/8"	6'-10 1/2"	14'-8 1/4"	14'-6 1/2"	4'-9 1/4"	2'-6 1/8"	8'-5 1/4"	14'-7 1/4"	14'-6 1/2"	4'-10 1/4"	1'-3 1/8"	9'-9 3/4"	13'-11 1/4"	14'-6"	4'-11 1/4"	11'-8 1/4"	13'-11 1/4"	13'-6"	5'-2 1/2"	13'-5 1/4"	13'-5 1/4"	12'-6"	5'-6 1/2"	15'-6 1/2"	13'-0 1/2"	11'-6"	5'-10 1/2"	17'-8 1/4"	12'-5"	10'-6"	6'-4 1/2"	20'-0"	11'-6 1/2"	10'-0"	6'-11 1/4"	22'-10 1/4"	10'-7 1/4"
	6'	16'-11 1/2"	4'-8 1/4"	6'-2 1/8"	16'-9 1/4"	4'-8 1/2"	4'-6"	7'-10 1/2"	16'-11 1/4"	17'-0"	4'-9 1/4"	3'-0"	9'-8 1/4"	16'-9 1/4"	17'-0 1/4"	4'-10 1/4"	1'-5 1/8"	11'-6"	16'-5 1/2"	17'-0"	4'-11 1/4"	13'-4 1/4"	15'-10 1/4"	15'-6"	5'-2 1/2"	15'-6 1/2"	15'-6 1/2"	14'-6"	5'-6 1/2"	17'-10 1/4"	14'-1 1/4"	13'-6"	5'-10 1/2"	20'-2 1/4"	14'-1 1/4"	12'-6"	6'-4 1/2"	23'-0 1/4"	13'-3 1/2"	12'-0"	6'-11 1/4"	26'-0 1/4"	12'-1 1/4"
	7'	19'-3 1/2"	4'-8 1/4"	7'-0 1/8"	19'-2 1/4"	4'-8 1/2"	5'-1 1/4"	8'-11 1/2"	19'-2 1/2"	19'-5 1/2"	4'-9 1/4"	3'-5 1/8"	10'-11 1/4"	18'-11 1/4"	19'-6 1/2"	4'-10 1/4"	1'-8 1/2"	12'-11 1/4"	18'-5 1/2"	19'-6"	4'-11 1/4"	15'-3 1/4"	18'-2 1/2"	17'-6"	5'-2 1/2"	17'-8 1/4"	17'-8 1/4"	16'-6"	5'-6 1/2"	20'-1 1/4"	16'-10 1/4"	15'-0"	5'-10 1/2"	22'-7 1/4"	15'-10 1/4"	14'-0"	6'-4 1/2"	26'-0 1/4"	15'-0 1/2"	13'-6"	6'-11 1/4"	29'-2 1/4"	13'-7 1/4"
8'	3'	9'-10 1/2"	6'-10 1/4"	3'-7 1/4"	10'-0 1/2"	6'-10 1/2"	2'-8 1/4"	4'-8 3/4"	10'-1 1/4"	10'-1 1/4"	6'-11 1/2"	1'-9 3/8"	5'-8 1/4"	9'-10 1/2"	10'-1 1/4"	7'-1 1/4"	10 1/8"	6'-11 1/4"	9'-10 1/2"	10'-0"	7'-3 1/2"	9'-9 1/4"	11'-8 1/4"	11'-0"	7'-7 1/2"	11'-3 1/4"	11'-3 1/4"	10'-6"	8'-0 1/2"	13'-2 1/2"	11'-1 1/4"	9'-6"	8'-6 1/2"	14'-10 1/4"	10'-4 1/4"	9'-0"	9'-2 1/2"	16'-11 1/4"	9'-9 1/4"	8'-6"	9'-11 1/4"	19'-8 1/4"	9'-2 1/2"
	4'	12'-3 1/2"	6'-10 1/4"	4'-5 1/2"	12'-5 1/2"	6'-10 1/2"	3'-4 1/8"	5'-9 1/2"	12'-5"	12'-6 1/2"	6'-11 1/2"	2'-2 1/8"	6'-11 1/4"	12'-0 1/2"	12'-1"	7'-1 1/4"	1'-0 1/8"	8'-4 1/8"	11'-1 1/4"	12'-0"	7'-3 1/2"	9'-9 1/4"	11'-8 1/4"	11'-0"	7'-7 1/2"	11'-3 1/4"	11'-3 1/4"	10'-6"	8'-0 1/2"	13'-2 1/2"	11'-1 1/4"	9'-6"	8'-6 1/2"	14'-10 1/4"	10'-4 1/4"	9'-0"	9'-2 1/2"	16'-11 1/4"	9'-9 1/4"	8'-6"	9'-11 1/4"	19'-8 1/4"	9'-2 1/2"
	5'	14'-7 1/4"	6'-10 1/4"	5'-3 1/4"	14'-10 1/2"	6'-10 1/2"	3'-1 1/8"	6'-10 1/2"	14'-8 1/4"	14'-6 1/2"	6'-11 1/2"	2'-6 1/8"	8'-5 1/4"	14'-7 1/4"	14'-6 1/2"	7'-1 1/4"	1'-3 1/8"	9'-9 3/4"	13'-11 1/4"	14'-6"	7'-3 1/2"	11'-8 1/4"	13'-11 1/4"	13'-6"	7'-7 1/2"	13'-5 1/4"	13'-5 1/4"	12'-6"	8'-0 1/2"	15'-6 1/2"	13'-0 1/2"	11'-6"	8'-6 1/2"	17'-8 1/4"	12'-5"	10'-6"	9'-2 1/2"	20'-0"	11'-6 1/2"	10'-0"	9'-11 1/4"	22'-10 1/4"	10'-7 1/4"
	6'	16'-11 1/2"	6'-10 1/4"	6'-2 1/8"	16'-9 1/4"	6'-10 1/2"	4'-6"	7'-10 1/2"	16'-11 1/4"	17'-0"	6'-11 1/2"	3'-0"	9'-8 1/4"	16'-9 1/4"	17'-0 1/4"	7'-1 1/4"	1'-5 1/8"	11'-6"	16'-5 1/2"	17'-0"	7'-3 1/2"	13'-4 1/4"	15'-10 1/4"	15'-6"	7'-7 1/2"	15'-6 1/2"	15'-6 1/2"	14'-6"	8'-0 1/2"	17'-10 1/4"	14'-1 1/4"	13'-6"	8'-6 1/2"	20'-2 1/4"	14'-1 1/4"	12'-6"	9'-2 1/2"	23'-0 1/4"	13'-3 1/2"	12'-0"	9'-11 1/4"	26'-0 1/4"	12'-1 1/4"
	7'	19'-3 1/2"	6'-10 1/4"	7'-0 1/8"	19'-2 1/4"	6'-10 1/2"	5'-1 1/4"	8'-11 1/2"	19'-2 1/2"	19'-5 1/2"	6'-11 1/2"	3'-5 1/8"	10'-11 1/4"	18'-11 1/4"	19'-6 1/2"	7'-1 1/4"	1'-8 1/2"	12'-11 1/4"	18'-5 1/2"	19'-6"	7'-3 1/2"	15'-3 1/4"	18'-2 1/2"	17'-6"	7'-7 1/2"	17'-8 1/4"	17'-8 1/4"	16'-6"	8'-0 1/2"	20'-1 1/4"	16'-10 1/4"	15'-0"	8'-6 1/2"	22'-7 1/4"	15'-10 1/4"	14'-0"	9'-2 1/2"	26'-0 1/4"	15'-0 1/2"	13'-6"	9'-11 1/4"	29'-2 1/4"	13'-7 1/4"
8'	21'-9 1/2"	5'-9 1/2"	7'-11 1/4"	21'-9 1/4"	5'-9 3/4"	5'-10"	10'-1 1/4"	21'-8 1/4"	22'-0 1/2"	5'-10 1/2"	3'-10 1/8"	12'-3 1/2"	21'-4 1/4"	21'-7 1/2"	8'-2 1/2"	1'-10 1/8"	14'-6 1/2"	20'-9 1/2"	21'-6"	8'-5 1/4"	17'-1 1/4"	20'-5 1/4"	20'-0"	8'-9 1/2"	19'-9 1/2"	19'-9 1/2"	18'-6"	9'-3"	22'-10 1/4"	19'-2 1/2"	17'-0"	9'-9 1/2"	26'-1 1/4"	18'-3 1/4"	16'-0"	10'-6 1/2"	29'-5"	16'-11 1/4"	15'-0"	11'-4 1/2"	33'-9 1/2"	15'-9 1/2"	
10'	3'	9'-10 1/2"	9'-0 1/4"	3'-7 1/4"	10'-0 1/2"	9'-0 1/2"	2'-8 1/4"	4'-8 3/4"	10'-1 1/4"	10'-1 1/4"	9'-1 1/4"	1'-9 3/8"	5'-8 1/4"	9'-10 1/2"	10'-1 1/4"	9'-4"	10 1/8"	6'-11 1/4"	9'-10 1/2"	10'-0"	9'-7"	8'-2 1/2"	9'-9 1/4"	9'-0"	10'-0"	9'-6 1/2"	9'-6 1/2"	8'-6"	10'-6 1/2"	10'-11 1/4"	9'-2 1/4"	7'-6"	11'-2 1/2"	12'-4 1/2"	8'-8 1/4"	7'-0"	12'-0 1/2"	14'-4 1/2"	8'-3 1/2"	7'-0"	13'-0 1/4"	16'-6 1/2"	7'-8 1/2"
	4'	12'-3 1/2"	9'-0 1/4"	4'-5 1/2"	12'-5 1/2"	9'-0 1/2"	3'-4 1/8"	5'-9 1/2"	12'-5"	12'-6 1/2"	9'-1 1/4"	2'-2 1/8"	6'-11 1/4"	12'-0 1/2"	12'-1"	9'-4"	1'-0 1/8"	8'-4 1/8"	11'-1 1/4"	12'-0"	9'-7"	9'-9 1/4"	11'-8 1/4"	11'-0"	10'-0"	11'-3 1/4"	11'-3 1/4"	10'-6"	10'-6 1/2"	13'-2 1/2"	11'-1 1/4"	9'-6"	11'-2 1/2"	14'-10 1/4"	10'-4 1/4"	9'-0"	12'-0 1/2"	16'-11 1/4"	9'-9 1/4"	8'-6"	13'-0 1/4"	19'-8 1/4"	9'-2 1/2"
	5'	14'-7 1/4"	9'-0 1/4"	5'-3 1/4"	14'-10 1/2"	9'-0 1/2"	3'-1 1/8"	6'-10 1/2"	14'-8 1/4"	14'-6 1/2"	9'-1 1/4"	2'-6 1/8"	8'-5 1/4"	14'-7 1/4"	14'-6 1/2"	9'-4"	1'-3 1/8"	9'-9 3/4"	13'-11 1/4"	14'-6"	9'-7"	11'-8 1/4"	13'-11 1/4"	13'-6"	10'-0"	13'-5 1/4"	13'-5 1/4"	12'-6"	10'-6 1/2"	15'-6 1/2"	13'-0 1/2"	11'-6"	11'-2 1/2"	17'-8 1/4"	12'-5"	10'-6"	12'-0 1/2"	20'-0"	11'-6 1/2"	10'-0"	13'-0 1/4"	22'-10 1/4"	10'-7 1/4"
	6'	16'-11 1/2"	9'-0 1/4"	6'-2 1/8"	16'-9 1/4"	9'-0 1/2"	4'-6"	7'-10 1/2"	16'-11 1/4"	17'-0"	9'-1 1/4"	3'-0"	9'-8 1/4"	16'-9 1/4"	17'-0 1/4"	9'-4"	1'-5 1/8"	11'-6"	16'-5 1/2"	17'-0"	9'-7"	13'-4 1/4"	15'-10 1/4"	15'-6"	10'-0"	15'-6 1/2"	15'-6 1/2"	14'-6"	10'-6 1/2"	17'-10 1/4"	14'-1 1/4"	13'-6"	11'-2 1/2"	20'-2 1/4"	14'-1 1/4"	12'-6"	12'-0 1/2"	23'-0 1/4"	13'-3 1/2"	12'-0"	13'-0 1/4"	26'-0 1/4"	12'-1 1/4"
	7'	19'-3 1/2"	9'-0 1/4"	7'-0 1/8"	19'-2 1/4"	9'-0 1/2"	5'-1 1/4"	8'-11 1/2"	19'-2 1/2"	19'-5 1/2"	9'-1 1/4"	3'-5 1/8"	10'-11 1/4"	18'-11 1/4"	19'-6 1/2"	9'-4"	1'-8 1/2"	12'-11 1/4"	18'-5 1/2"	19'-6"	9'-7"	15'-3 1/4"	18'-2 1/2"	17'-6"	10'-0"	17'-8 1/4"	17'-8 1/4"	16'-6"	10'-6 1/2"	20'-1 1/4"	16'-10 1/4"	15'-0"	11'-2 1/2"	22'-7 1/4"	15'-10 1/4"	14'-0"	12'-0 1/2"	26'-0 1/4"	15'-0 1/2"	13'-6"	13'-0 1/4"	29'-2 1/4"	13'-7 1/4"
8'	21'-9 1/2"	7'-11 1/4"	7'-11 1/4"	21'-9 1/4"	7'-11 1/4"	5'-10"	10'-1 1/4"	21'-8 1/4"	22'-0 1/2"	8'-0 1/2"	3'-10 1/8"	12'-3 1/2"	21'-4 1/4"	21'-7 1/2"	8'-2 1/2"	1'-10 1/8"	14'-6 1/2"	20'-9 1/2"	21'-6"	8'-5 1/4"	17'-1 1/4"	20'-5 1/4"	20'-0"	8'-9 1/2"	19'-9 1/2"	19'-9 1/2"	18'-6"	9'-3"	22'-10 1/4"	19'-2 1/2"	17'-0"	9'-9 1/2"	26'-1 1/4"	18'-3 1/4"	16'-0"	10'-6 1/2"	29'-5"	16'-11 1/4"	15'-0"	11'-4 1/2"	33'-9 1/2"	15'-9 1/2"	
9'	24'-2 1/2"	7'-9 1/2"	8'-9 1/4"	24'-2 1/2"	7'-9 1/2"	6'-5 1/2"	11'-2 1/4"	23'-11 1/4"	24'-0"	7'-10 1/4"	4'-2 1/4"	13'-7 1/4"	23'-6 1/4"	24'-1 1/4"	8'-0 1/2"	2'-1 1/4"	16'-3 1/2"	23'-3 1/4"	24'-0"	8'-2 1/2"	19'-1 1/2"	22'-9 1/2"	22'-0"	8'-7 1/2"	21'-11 1/4"	21'-11 1/4"	20'-6"	9'-0 1/2"	25'-3 1/4"	21'-2 1/2"	19'-0"	9'-7 1/2"	28'-7 1/4"	20'-0 1/2"	17'-6"	10'-3 1/2"	32'-6 1/4"	18'-9 1/2"	17'-0"	11'-1 1/4"	37'-1 1/2"	17'-3 1/4"	
10'	26'-7"	7'-7 1/4"	9'-8 1/4"	26'-7 1/4"	7'-7 1/4"	7'-1 1/2"	12'-3 1/2"	26'-3 1/2"	26'-5 1/4"	7'-8 1/2"	4'-8"	14'-10 1/2"	25'-9 1/2"	26'-7"	7'-10 1/4"	2'-3 1/2"	17'-9 1/2"	25'-4 1/2"	26'-6"	8'-0 1/2"	20'-9 1/4"	24'-9 1/4"	24'-0"	8'-4 1/4"	24'-1 1/4"	24'-1 1/4"	22'-6"	8'-9 1/2"	27'-7 1/4"	23'-2 1/2"	20'-6"	9'-4 1/4"	31'-7 1/4"	22'-1 1/4"	19'-6"	10'-0 1/2"	35'-8 1/4"	20'-7 1/2"	18'-6"	10'-9 1/4"	40'-5 1/2"	18'-10 1/2"	
12'	8'	21'-9 1/2"	10'-3 1/2"	7'-11 1/4"	21'-9 1/4"	10'-3 1/2"	5'-10"	10'-1 1/4"	21'-8 1/4"	22'-0 1/2"	10'-5 1/4"	3'-10 1/8"	12'-3 1/2"	21'-4 1/4"	10'-7 1/2"	1'-10 1/8"	14'-6 1/2"	20'-9 1/2"	21'-6"	10'-11 1/4"	17'-1 1/4"	20'-5 1/4"	20'-0"	11'-4 1/2"	19'-9 1/2"	19'-9 1/2"	18'-6"	11'-11 1/4"	22'-10 1/4"	19'-2 1/2"	17'-0"	12'-8 1/2"	26'-1 1/4"	18'-3 1/4"	16'-0"	13'-6 1/2"	29'-5"	16'-11 1/4"	15'-0"	14'-8 1/4"	33'-9 1/2"	15'-9 1/2"	
	9'	24'-2 1/2"	10'-1"	8'-9 1/4"	24'-2 1/2"	10'-1 1/4"	6'-5 1/2"	11'-2 1/4"	23'-11 1/4"	24'-0"	10'-3 1/4"	4'-2 1/4"	13'-7 1/4"	23'-6 1/4"	24'-1 1/4"	10'-5 1/2"	2'-1 1/4"	16'-3 1/2"	23'-3 1/4"	24'-0"	10'-8 1/4"	19'-1 1/2"	22'-9 1/2"	22'-0"	11'-2"	21'-11 1/4"	21'-11 1/4"	20'-6"	11'-8 1/2"	25'-3 1/4"	21'-2 1/2"	19'-0"	12'-5 1/2"	28'-7 1/4"	20'-0 1/2"	17'-6"	13'-3 1/2"	32'-6 1/4"	18'-9 1/2"	17'-0"	14'-4 1/4"	37'-1 1/2"	17'-3 1/4"
	10'	26'-7"	9'-11 1/4"	9'-8 1/4"	26'-7 1/4"	9'-11 1/4"	7'-1 1/2"	12'-3 1/2"	26'-3 1/2"	26'-5 1/4"	10'-1"	4'-8"	14'-10 1/2"	25'-9 1/2"	26'-7"	10'-3 1/2"	2'-3 1/2"	17'-9 1/2"	25'-4 1/2"	26'-6"	10'-6 1/2"	20'-9 1/4"	24'-9 1/4"	24'-0"	10'-11 1/4"	24'-1 1/4"	24'-1 1/4"	22'-6"	11'-6 1/4"	27'-7 1/4"	23'-2 1/2"	20'-6"	12'-2 1/2"	31'-7 1/4"	22'-1 1/4"	19'-6"	13'-0 1/2"	35'-8 1/4"					