

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.	DATE	DESCRIPTION OF REVISIONS
1	2-12	Original Issue
2	5-15	Added 3'-4.5' height for existing box extensions only
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'	12'-3 1/8"	4'-8 1/4"	4'-5 1/2"	12'-5 1/2"	4'-8 1/2"	3'-4 1/8"	5'-6"	11'-11 1/2"	12'-0"	4'-9 1/8"	2'-1 1/2"	6'-11 1/4"	12'-0"	12'-1"	4'-10 1/8"	1'-0"	8'-4 1/8"	11'-11"	12'-0"	4'-11 1/4"	9'-5 1/2"	11'-3 3/8"	11'-0"	5'-2 1/8"	10'-11 1/2"	10'-11 1/2"	10'-0"	5'-6 1/8"	12'-5 1/4"	10'-5 1/8"	9'-0"	5'-10 1/8"	14'-5 3/8"	10'-1 3/8"	8'-6"	6'-4 1/2"	16'-1 1/4"	9'-3 3/8"	8'-0"	6'-11 1/8"	18'-3 3/8"	8'-6 1/2"
	4'	15'-0 1/8"	4'-8 1/4"	5'-5 1/8"	15'-4 3/8"	4'-8 1/2"	4'-1 1/8"	7'-0"	15'-1 1/8"	15'-0 3/8"	4'-9 1/8"	2'-7 1/8"	8'-5 1/4"	14'-7 1/4"	15'-0 1/8"	4'-10 1/8"	1'-3 1/8"	10'-0 1/8"	14'-4 1/2"	15'-0"	4'-11 1/4"	11'-8 1/8"	13'-11 1/8"	13'-6"	5'-2 1/8"	13'-5 1/4"	13'-5 1/4"	12'-6"	5'-6 1/8"	15'-6 1/2"	13'-0 1/2"	11'-6"	5'-10 1/8"	17'-3 3/8"	12'-1 1/2"	10'-6"	6'-4 1/2"	19'-6 1/8"	11'-3 3/8"	10'-0"	6'-11 1/8"	21'-11 1/8"	10'-2 1/4"
	5'	17'-10 1/4"	4'-8 1/4"	6'-6 1/8"	18'-3 3/8"	4'-8 1/2"	4'-10 1/8"	8'-3 3/8"	17'-10 1/4"	17'-11 1/4"	4'-9 1/8"	3'-2 1/8"	10'-2 1/4"	17'-7 1/4"	18'-0 1/4"	4'-10 1/8"	1'-7"	12'-0 1/8"	17'-2 1/8"	18'-0"	4'-11 1/4"	13'-11 1/8"	16'-8"	16'-0"	5'-2 1/8"	15'-10 1/8"	15'-10 1/8"	14'-6"	5'-6 1/8"	18'-2 1/8"	15'-3 1/2"	13'-6"	5'-10 1/8"	20'-7 1/8"	14'-5"	12'-6"	6'-4 1/2"	23'-0 1/8"	13'-3 3/8"	12'-0"	6'-11 1/8"	25'-6 1/8"	11'-11 1/8"
	6'	20'-8 1/4"	4'-8 1/4"	7'-6 1/2"	21'-1 1/8"	4'-8 1/2"	5'-8"	9'-7 1/8"	20'-6 1/8"	20'-10 1/4"	4'-9 1/8"	3'-8 1/8"	11'-8 1/4"	20'-2 1/4"	21'-0 1/4"	4'-10 1/8"	1'-10 1/8"	13'-9 1/2"	19'-8 1/8"	21'-0"	4'-11 1/4"	15'-11"	18'-11 1/8"	19'-0"	5'-2 1/8"	18'-4 1/8"	18'-4 1/8"	17'-0"	5'-6 1/8"	20'-10 1/8"	17'-6 1/2"	15'-6"	5'-10 1/8"	23'-5 1/2"	16'-5 1/8"	14'-6"	6'-4 1/2"	26'-6"	15'-3 3/8"	13'-6"	6'-11 1/8"	29'-7 1/8"	13'-9 1/8"
	7'	23'-6 1/8"	4'-8 1/4"	8'-6 1/4"	24'-0 1/8"	4'-8 1/2"	6'-5 3/8"	10'-10 1/8"	23'-3 1/2"	23'-10 1/4"	4'-9 1/8"	4'-2 1/2"	13'-2 1/4"	22'-10"	24'-0 1/2"	4'-10 1/8"	2'-1 1/4"	15'-9 1/2"	22'-6 1/8"	24'-0"	4'-11 1/4"	18'-2"	21'-7 1/8"	21'-6"	5'-2 1/8"	20'-10 1/8"	20'-10 1/8"	19'-6"	5'-6 1/8"	23'-7"	19'-9 1/2"	18'-0"	5'-10 1/8"	26'-8 1/8"	18'-8 1/8"	16'-6"	6'-4 1/2"	29'-11 1/2"	17'-3 3/8"	15'-6"	6'-11 1/8"	33'-3 3/8"	15'-6 1/4"
8'	3'	12'-3 1/8"	6'-10 1/4"	4'-5 1/2"	12'-5 1/2"	6'-10 1/2"	3'-4 1/8"	5'-6"	11'-11 1/2"	12'-0"	6'-11 1/2"	2'-1 1/2"	6'-11 1/4"	12'-0"	12'-1"	7'-1 1/8"	1'-0"	8'-4 1/8"	11'-11"	12'-0"	7'-3 3/8"	9'-5 1/2"	11'-3 3/8"	11'-0"	7'-7 1/8"	10'-11 1/2"	10'-11 1/2"	10'-0"	8'-0 1/8"	12'-5 1/4"	10'-5 1/8"	9'-0"	8'-6 1/8"	14'-5 3/8"	10'-1 3/8"	8'-6"	9'-2 1/8"	16'-1 1/4"	9'-3 3/8"	8'-0"	9'-11 1/8"	18'-3 3/8"	8'-6 1/2"
	4'	15'-0 1/8"	6'-10 1/4"	5'-5 1/8"	15'-4 3/8"	6'-10 1/2"	4'-1 1/8"	7'-0"	15'-1 1/8"	15'-0 3/8"	6'-11 1/2"	2'-7 1/8"	8'-5 1/4"	14'-7 1/4"	15'-0 1/8"	7'-1 1/8"	1'-3 1/8"	10'-0 1/8"	14'-4 1/2"	15'-0"	7'-3 3/8"	11'-8 1/8"	13'-11 1/8"	13'-6"	7'-7 1/8"	13'-5 1/4"	13'-5 1/4"	12'-6"	8'-0 1/8"	15'-6 1/2"	13'-0 1/2"	11'-6"	8'-6 1/8"	17'-3 3/8"	12'-1 1/2"	10'-6"	9'-2 1/8"	19'-6 1/8"	11'-3 3/8"	10'-0"	9'-11 1/8"	21'-11 1/8"	10'-2 1/4"
	5'	17'-10 1/4"	6'-10 1/4"	6'-6 1/8"	18'-3 3/8"	6'-10 1/2"	4'-10 1/8"	8'-3 3/8"	17'-10 1/4"	17'-11 1/4"	6'-11 1/2"	3'-2 1/8"	10'-2 1/4"	17'-7 1/4"	18'-0 1/4"	7'-1 1/8"	1'-7"	12'-0 1/8"	17'-2 1/8"	18'-0"	7'-3 3/8"	13'-11 1/8"	16'-8"	16'-0"	7'-7 1/8"	15'-10 1/8"	15'-10 1/8"	14'-6"	8'-0 1/8"	18'-2 1/8"	15'-3 1/2"	13'-6"	8'-6 1/8"	20'-7 1/8"	14'-5"	12'-6"	9'-2 1/8"	23'-0 1/8"	13'-3 3/8"	12'-0"	9'-11 1/8"	25'-6 1/8"	11'-11 1/8"
	6'	20'-8 1/4"	6'-10 1/4"	7'-6 1/2"	21'-1 1/8"	6'-10 1/2"	5'-8"	9'-7 1/8"	20'-6 1/8"	20'-11 1/4"	6'-11 1/2"	3'-8 1/8"	11'-8 1/4"	20'-2 1/4"	21'-0 1/4"	7'-1 1/8"	1'-10 1/8"	13'-9 1/2"	19'-8 1/8"	21'-0"	7'-3 3/8"	15'-11"	18'-11 1/8"	19'-0"	7'-7 1/8"	18'-4 1/8"	18'-4 1/8"	17'-0"	8'-0 1/8"	20'-10 1/8"	17'-6 1/2"	15'-6"	8'-6 1/8"	23'-5 1/2"	16'-5 1/8"	14'-6"	9'-2 1/8"	26'-6"	15'-3 3/8"	13'-6"	9'-11 1/8"	29'-7 1/8"	13'-9 1/8"
	7'	23'-6 1/8"	6'-10 1/4"	8'-6 1/4"	24'-0 1/8"	6'-10 1/2"	6'-5 3/8"	10'-10 1/8"	23'-3 1/2"	23'-10 1/4"	6'-11 1/2"	4'-2 1/2"	13'-2 1/4"	22'-10"	24'-0 1/2"	7'-1 1/8"	2'-1 1/4"	15'-9 1/2"	22'-6 1/8"	24'-0"	7'-3 3/8"	18'-2"	21'-7 1/8"	21'-6"	7'-7 1/8"	20'-10 1/8"	20'-10 1/8"	19'-6"	8'-0 1/8"	23'-7"	19'-9 1/2"	18'-0"	11'-2 1/8"	26'-8 1/8"	18'-8 1/8"	16'-6"	12'-0 1/8"	29'-11 1/2"	17'-3 3/8"	15'-6"	13'-0 1/8"	33'-3 3/8"	15'-6 1/4"
8'	27'-0"	5'-9 1/2"	9'-9 1/2"	27'-1"	5'-9 1/2"	7'-3 1/8"	12'-2 1/4"	26'-2 1/8"	26'-11 1/4"	5'-10 1/2"	4'-9"	15'-0 1/8"	26'-1 1/8"	27'-0 1/2"	5'-11 1/4"	2'-4 1/8"	17'-8 1/4"	25'-3 1/4"	27'-0"	6'-4 1/8"	20'-8 1/4"	24'-7 1/8"	24'-0"	6'-4 1/8"	23'-8 1/4"	23'-8 1/4"	22'-0"	6'-9"	26'-8 1/8"	22'-5 1/8"	20'-0"	7'-2 1/8"	30'-2 1/4"	21'-1 1/8"	18'-6"	7'-8 1/8"	33'-8 1/8"	19'-5 1/4"	17'-6"	8'-3 3/8"	37'-10 1/2"	17'-7 1/8"	
10'	3'	12'-3 1/8"	9'-0 1/4"	4'-5 1/2"	12'-5 1/2"	9'-0 1/2"	3'-4 1/8"	5'-6"	11'-11 1/2"	12'-0"	9'-1 1/2"	6'-11 1/4"	12'-0"	12'-1"	9'-4"	1'-0"	8'-4 1/8"	11'-11"	12'-0"	9'-7"	9'-5 1/2"	11'-3 3/8"	11'-0"	10'-0"	10'-11 1/2"	10'-11 1/2"	10'-0"	10'-6 1/8"	12'-5 1/4"	10'-5 1/8"	9'-0"	11'-2 1/8"	14'-5 3/8"	10'-1 3/8"	8'-6"	12'-0 1/8"	16'-1 1/4"	9'-3 3/8"	8'-0"	13'-0 1/8"	18'-3 3/8"	8'-6 1/2"	
	4'	15'-0 1/8"	9'-0 1/4"	5'-5 1/8"	15'-4 3/8"	9'-0 1/2"	4'-1 1/8"	7'-0"	15'-1 1/8"	15'-0 3/8"	9'-1 1/2"	2'-7 1/8"	8'-5 1/4"	14'-7 1/4"	15'-0 1/8"	9'-4"	1'-3 1/8"	10'-0 1/8"	14'-4 1/2"	15'-0"	9'-7"	11'-8 1/8"	13'-11 1/8"	13'-6"	10'-0"	13'-5 1/4"	13'-5 1/4"	12'-6"	10'-6 1/8"	15'-6 1/2"	13'-0 1/2"	11'-6"	11'-2 1/8"	17'-3 3/8"	12'-1 1/2"	10'-6"	12'-0 1/8"	19'-6 1/8"	11'-3 3/8"	10'-0"	13'-0 1/8"	21'-11 1/8"	10'-2 1/4"
	5'	17'-10 1/4"	9'-0 1/4"	6'-6 1/8"	18'-3 3/8"	9'-0 1/2"	4'-10 1/8"	8'-3 3/8"	17'-10 1/4"	17'-11 1/4"	9'-1 1/2"	3'-2 1/8"	10'-2 1/4"	17'-7 1/4"	18'-0 1/4"	9'-4"	1'-7"	12'-0 1/8"	17'-2 1/8"	18'-0"	9'-7"	13'-11 1/8"	16'-8"	16'-0"	10'-0"	15'-10 1/8"	15'-10 1/8"	14'-6"	10'-6 1/8"	18'-2 1/8"	15'-3 1/2"	13'-6"	11'-2 1/8"	20'-7 1/8"	14'-5"	12'-6"	12'-0 1/8"	23'-0 1/8"	13'-3 3/8"	12'-0"	13'-0 1/8"	25'-6 1/8"	11'-11 1/8"
	6'	20'-8 1/4"	9'-0 1/4"	7'-6 1/2"	21'-1 1/8"	9'-0 1/2"	5'-8"	9'-7 1/8"	20'-6 1/8"	20'-11 1/4"	9'-1 1/2"	3'-8 1/8"	11'-8 1/4"	20'-2 1/4"	21'-0 1/4"	9'-4"	1'-10 1/8"	13'-9 1/2"	19'-8 1/8"	21'-0"	9'-7"	15'-11"	18'-11 1/8"	19'-0"	10'-0"	18'-4 1/8"	18'-4 1/8"	17'-0"	10'-6 1/8"	20'-10 1/8"	17'-6 1/2"	15'-6"	11'-2 1/8"	23'-5 1/2"	16'-5 1/8"	14'-6"	12'-0 1/8"	26'-6"	15'-3 3/8"	13'-6"	13'-0 1/8"	29'-7 1/8"	13'-9 1/8"
	7'	23'-6 1/8"	9'-0 1/4"	8'-6 1/4"	24'-0 1/8"	9'-0 1/2"	6'-5 3/8"	10'-10 1/8"	23'-3 1/2"	23'-10 1/4"	9'-1 1/2"	4'-2 1/2"	13'-2 1/4"	22'-10"	24'-0 1/2"	9'-4"	2'-1 1/4"	15'-9 1/2"	22'-6 1/8"	24'-0"	9'-7"	18'-2"	21'-7 1/8"	21'-6"	10'-0"	20'-10 1/8"	20'-10 1/8"	19'-6"	10'-6 1/8"	23'-7"	19'-9 1/2"	18'-0"	11'-2 1/8"	26'-8 1/8"	18'-8 1/8"	16'-6"	12'-0 1/8"	29'-11 1/2"	17'-3 3/8"	15'-6"	13'-0 1/8"	33'-3 3/8"	15'-6 1/4"
8'	27'-0"	7'-11 1/2"	9'-9 1/2"	27'-1"	7'-11 1/2"	7'-3 1/8"	12'-2 1/4"	26'-2 1/8"	26'-11 1/4"	8'-0 1/2"	4'-9"	15'-0 1/8"	26'-1 1/8"	27'-0 1/2"	8'-2 1/2"	2'-4 1/8"	17'-8 1/4"	25'-3 1/4"	27'-0"	8'-5 1/4"	20'-8 1/4"	24'-7 1/8"	24'-0"	8'-9 1/2"	23'-8 1/4"	23'-8 1/4"	22'-0"	9'-3"	26'-8 1/8"	22'-5 1/8"	20'-0"	9'-9 1/2"	30'-2 1/4"	21'-1 1/8"	18'-6"	10'-6 1/8"	33'-8 1/8"	19'-5 1/4"	17'-6"	11'-4 1/8"	37'-10 1/2"	17'-7 1/8"	

		QUANTITIES																																							
Span	Hgt.	0° Skew				5° Skew				10° Skew				15° Skew				20° Skew				25° Skew				30° Skew				35° Skew				40° Skew				45° Skew			
		Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs	Conc. I Bbl.	C. Y.	Steel I Bbl.	Δs
6'	3'	0.47	1.75	69	143	0.47	1.75	69	143	0.49	1.75	70	143	0.53	1.78	75	146	0.54	1.78	74	146	0.98	1.76	106	145	1.40	1.73	137	144	1.85	1.73	173	144	2.23	1.74	202	147	2.65	1.78	237	151
	4'	0.73	2.10	104	169	0.75	2.13	108	171	0.75	2.10	105	169	0.79	2.13	108	172	0.84	2.15	111	174	1.38	2.10	150	170	1.94	2.09	194	171	2.41	2.07	228	170	2.91	2.06	267	170	3.42	2.10	304	175
	5'	1.04	2.45	147	195	1.07	2.47	151	197	1.09	2.47	152	197	1.15	2.50	156	199	1.20	2.53	158	202	1.83	2.48	203	195	2.48	2.40	252	193	3.10	2.39	299	194	3.67	2.39	341	194	4.29	2.42	381	198
	6'	1.46	2.79	199	221	1.50	2.82	203	223	1.52	2.82	203	223	1.57	2.85	205	225	1.63	2.87	205	228	2.42	2.81	265	223	3.14	2.73	320	218	3.85	2.69	369	216	4.62	2.71	424	218	5.36	2.72	473	221
	7'	1.98	3.14	258	247	2.03	3.17	262	249	2.05	3.17	261	249	2.17	3.22	269	253	2.24	3.24	268	255	3.14	3.15	335	248	4.02	3.07	396	243	4.92	3.06	461	243	5.72	3.03	518	242	6.55	3.04	568	244
8'	3'	1.09	2.36	115	186	1.09	2.37	114	186	1.11	2.37	116	186	1.16	2.40	121	190	1.18	2.41	121	190	1.61	2.38	152	188	2.02	2.35	183	187	2.48	2.35	220	188	2.86	2.38	249	190	3.31	2.43	285	195
	4'	1.47	2.82	159	220	1.50	2.86	163	22																																