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TABLE OF FOUNDATION LOADS - 0° SKEW									
Span Average	Minimum Concrete Pile Size	Tx28, Tx34 & Tx40 GIRDERS				Tx46 & Tx54 GIRDERS			
		Pile Loads				Pile Loads			
		DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	In.	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	18	53	22	75	105	56	22	78	109
45		58	23	81	113	61	23	84	117
50		62	24	86	120	66	24	90	125
55	20	67	25	92	128	71	25	96	133
60		72	26	98	136	77	26	103	142
65		77	27	104	144	82	27	109	150
70	24	81	28	109	150	87	28	115	158
75		86	29	115	158	92	29	121	166
80		91	30	121	166	97	30	127	174
85		96	31	127	174	102	31	133	182

TABLE OF FOUNDATION LOADS - 15° SKEW									
Span Average	Minimum Concrete Pile Size	Tx28, Tx34 & Tx40 GIRDERS				Tx46 & Tx54 GIRDERS			
		Pile Loads				Pile Loads			
		DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	In.	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	18	53	22	75	105	56	22	78	109
45		58	23	81	113	61	23	84	117
50		63	24	87	121	67	24	91	126
55	20	67	25	92	128	72	25	97	134
60		72	26	98	136	77	26	103	142
65		77	27	104	144	82	27	109	150
70	24	82	28	110	152	87	28	115	158
75		86	29	115	158	92	29	121	166
80		91	30	121	166	97	30	127	174
85		96	31	127	174	103	31	134	183

TABLE OF FOUNDATION LOADS - 30° SKEW									
Span Average	Minimum Concrete Pile Size	Tx28, Tx34 & Tx40 GIRDERS				Tx46 & Tx54 GIRDERS			
		Pile Loads				Pile Loads			
		DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	In.	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	18	54	22	76	106	57	22	79	110
45		59	23	82	114	63	23	86	119
50		64	24	88	122	68	24	92	127
55	20	68	25	93	129	73	25	98	135
60		73	26	99	137	78	26	104	143
65		78	27	105	145	83	27	110	151
70	24	83	28	111	153	88	28	116	159
75		87	29	116	160	93	29	122	167
80		92	30	122	168	99	30	129	176
85		97	31	128	176	104	31	135	184

TABLE OF FOUNDATION LOADS - 45° SKEW									
Span Average	Minimum Concrete Pile Size	Tx28, Tx34 & Tx40 GIRDERS				Tx46 & Tx54 GIRDERS			
		Pile Loads				Pile Loads			
		DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	In.	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	18	56	22	78	109	59	22	81	112
45		61	23	84	117	65	23	88	122
50		66	24	90	125	70	24	94	130
55	20	70	25	95	131	75	25	100	138
60		75	26	101	139	80	26	106	146
65		80	27	107	147	85	27	112	154
70	24	85	28	113	155	90	28	118	162
75		89	29	118	162	95	29	124	170
80		94	30	124	170	101	30	131	179
85		99	31	130	178	106	31	137	187

- (1) 1.00DC + 1.00LL (all other loads not included)
- (2) 1.25DC + 1.75LL (all other loads not included)

GENERAL NOTES:
 Designed according to AASHTO LRFD Bridge Design Specifications.
 Pile foundation loads based on exposed height of 24 ft.

FOR DESIGNER'S INFORMATION ONLY.
 Loads included here within are to be added to the Foundation Notes sheet.

The values shown on these sheets are applicable for use only with the I-girder trestle bents shown on the standards BTIG-40, BTIG-40-15, BTIG-40-30, and BTIG-40-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

Texas Department of Transportation				Bridge Division Standard	
<h2 style="margin: 0;">TRESTLE BENT FOUNDATION LOADS</h2> <h3 style="margin: 0;">PRESTR CONCRETE I-GIRDERS</h3> <h3 style="margin: 0;">40' ROADWAY</h3> <h2 style="margin: 0;">IG-BTFL40-24</h2>					
FILE: IG-BTFL40-24.dgn		DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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