

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

TABLE OF FOUNDATION LOADS - 0° SKEW								
Span Average	Drilled Shaft Loads				Pile Load			
					4 Pile			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
60	114	34	148	202	32	9	41	56
65	121	35	156	213	34	9	43	58
70	127	37	164	224	35	10	45	61
75	134	38	172	234	37	10	47	64
80	141	39	180	245	39	10	49	66
85	147	40	187	254	40	10	50	68
90	154	42	196	266	42	11	53	72
95	160	43	203	275	44	11	55	74
100	167	44	211	286	45	11	56	76
105	173	45	218	295	47	12	59	80
110	180	46	226	306	49	12	61	82
115	186	47	233	315	50	12	62	84
120	193	49	242	327	52	13	65	88
125	200	50	250	338	53	13	66	89
130	206	51	257	347	55	13	68	92
135	213	52	265	357	57	13	70	94

TABLE OF FOUNDATION LOADS - 15° SKEW								
Span Average	Drilled Shaft Loads				Pile Load			
					4 Pile			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
60	115	34	149	203	32	9	41	56
65	121	35	156	213	34	9	43	58
70	128	37	165	225	36	10	46	63
75	134	38	172	234	37	10	47	64
80	141	39	180	245	39	10	49	66
85	148	40	188	255	40	10	50	68
90	154	42	196	266	42	11	53	72
95	161	43	204	277	44	11	55	74
100	167	44	211	286	45	11	56	76
105	174	45	219	296	47	12	59	80
110	180	46	226	306	49	12	61	82
115	187	47	234	316	50	12	62	84
120	193	49	242	327	52	13	65	88
125	200	50	250	338	54	13	67	90
130	206	51	257	347	55	13	68	92
135	213	52	265	357	57	13	70	94

TABLE OF FOUNDATION LOADS - 30° SKEW								
Span Average	Drilled Shaft Loads				Pile Load			
					4 Pile			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
60	116	34	150	205	33	9	42	57
65	123	35	158	215	34	9	43	58
70	129	37	166	226	36	10	46	63
75	136	38	174	237	38	10	48	65
80	143	39	182	247	39	10	49	66
85	149	40	189	256	41	10	51	69
90	156	42	198	269	42	11	53	72
95	162	43	205	278	44	11	55	74
100	169	44	213	288	46	11	57	77
105	175	45	220	298	47	12	59	80
110	182	46	228	308	49	12	61	82
115	188	47	235	317	51	12	63	85
120	195	49	244	330	52	13	65	88
125	202	50	252	340	54	13	67	90
130	208	51	259	349	56	13	69	93
135	215	52	267	360	57	13	70	94

TABLE OF FOUNDATION LOADS - 45° SKEW								
Span Average	Drilled Shaft Loads				Pile Load			
					4 Pile			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
60	119	34	153	208	33	9	42	57
65	126	35	161	219	35	9	44	60
70	132	37	169	230	37	10	47	64
75	139	38	177	240	38	10	48	65
80	146	39	185	251	40	10	50	68
85	152	40	192	260	42	10	52	70
90	159	42	201	272	43	11	54	73
95	165	43	208	282	45	11	56	76
100	172	44	216	292	46	11	57	77
105	178	45	223	301	48	12	60	81
110	185	46	231	312	50	12	62	84
115	191	47	238	321	51	12	63	85
120	198	49	247	333	53	13	66	89
125	205	50	255	344	55	13	68	92
130	211	51	262	353	56	13	69	93
135	218	52	270	364	58	13	71	95

- 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.
 Foundation loads based on "H" = 36 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 bents shown on the standards BIG-62-24, BIG-62-24-15, BIG-62-24-30, and BIG-62-24-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

Texas Department of Transportation				Bridge Division Standard	
<h2 style="margin: 0;">BENT FOUNDATION LOADS</h2> <h3 style="margin: 0;">PRESTR CONCRETE I-GIRDERS</h3> <h3 style="margin: 0;">TYPE Tx62</h3> <h3 style="margin: 0;">24' ROADWAY</h3> <h2 style="margin: 0;">IG-BFL6224-24</h2>					
FILE: IG-BFL6224-24.dgn		DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT May 2024		CONT	SECT	JOB	HIGHWAY
REVISIONS					
		DIST	COUNTY		SHEET NO.