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TABLE OF FOUNDATION LOADS - 0° SKEW

Span Average	Drilled Shaft Loads				Pile Load											
					3 Pile Ftg				4 Pile Ftg				5 Pile Ftg			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)	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	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	100	36	136	188	37	12	49	67	29	9	38	52	24	8	32	44
45	109	38	147	203	40	13	53	73	31	10	41	56	25	8	33	45
50	117	40	157	216	43	14	57	78	33	10	43	59	27	8	35	48
55	126	42	168	231	45	14	59	81	35	11	46	63	29	9	38	52
60	134	43	177	243	48	15	63	86	37	11	48	66	31	9	40	55
65	143	45	188	258	51	15	66	90	39	12	51	70	32	9	41	56
70	152	47	199	272	54	16	70	96	41	12	53	72	34	10	44	60
75	160	48	208	284	57	16	73	99	44	12	56	76	36	10	46	63
80	169	50	219	299	60	17	77	105	46	13	59	80	37	10	47	64
85	177	51	228	311	63	17	80	109	48	13	61	83	39	11	50	68
90	186	53	239	325	66	18	84	114	50	14	64	87	41	11	52	71
95	194	54	248	337	68	18	86	117	52	14	66	90	43	11	54	73
100	203	56	259	352	71	19	90	122	54	14	68	92	44	12	56	76
105	212	57	269	365	74	19	93	126	56	15	71	96	46	12	58	79
110	220	59	279	378	77	20	97	131	59	15	74	100	48	12	60	81
115	229	60	289	391	80	20	100	135	61	15	76	103	49	12	61	82
120	237	62	299	405	83	21	104	141	63	16	79	107	51	13	64	87

TABLE OF FOUNDATION LOADS - 15° SKEW

Span Average	Drilled Shaft Loads				Pile Load											
					3 Pile Ftg				4 Pile Ftg				5 Pile Ftg			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)	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	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	101	36	137	189	37	12	49	67	29	9	38	52	24	8	32	44
45	109	38	147	203	40	13	53	73	31	10	41	56	25	8	33	45
50	118	40	158	218	43	14	57	78	33	10	43	59	27	8	35	48
55	126	42	168	231	46	14	60	82	35	11	46	63	29	9	38	52
60	135	43	178	244	49	15	64	88	37	11	48	66	31	9	40	55
65	143	45	188	258	51	15	66	90	39	12	51	70	32	9	41	56
70	152	47	199	272	54	16	70	96	42	12	54	74	34	10	44	60
75	161	48	209	285	57	16	73	99	44	12	56	76	36	10	46	63
80	169	50	219	299	60	17	77	105	46	13	59	80	37	10	47	64
85	178	51	229	312	63	17	80	109	48	13	61	83	39	11	50	68
90	186	53	239	325	66	18	84	114	50	14	64	87	41	11	52	71
95	195	54	249	338	69	18	87	118	52	14	66	90	43	11	54	73
100	204	56	260	353	71	19	90	122	54	14	68	92	44	12	56	76
105	212	57	269	365	74	19	93	126	57	15	72	98	46	12	58	79
110	221	59	280	380	77	20	97	131	59	15	74	100	48	12	60	81
115	229	60	289	391	80	20	100	135	61	15	76	103	50	12	62	84
120	238	62	300	406	83	21	104	141	63	16	79	107	51	13	64	87

TABLE OF FOUNDATION LOADS - 30° SKEW

Span Average	Drilled Shaft Loads				Pile Load											
					3 Pile Ftg				4 Pile Ftg				5 Pile Ftg			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)	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	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	82	27	109	150	31	9	40	55	24	7	31	42	20	6	26	36
45	88	29	117	161	33	10	43	59	26	8	34	47	21	6	27	37
50	95	30	125	171	35	10	45	61	27	8	35	48	23	6	29	39
55	101	31	132	181	37	11	48	66	29	8	37	50	24	7	31	42
60	107	33	140	192	39	11	50	68	30	9	39	53	25	7	32	44
65	114	34	148	202	42	12	54	74	32	9	41	56	26	7	33	45
70	120	35	155	211	44	12	56	76	34	9	43	58	28	7	35	47
75	127	36	163	222	46	12	58	79	35	9	44	60	29	8	37	50
80	133	38	171	233	48	13	61	83	37	10	47	64	30	8	38	52
85	140	39	179	243	50	13	63	85	38	10	48	65	32	8	40	54
90	146	40	186	253	52	14	66	90	40	10	50	68	33	8	41	55
95	152	41	193	262	54	14	68	92	42	11	53	72	34	9	43	58
100	159	42	201	272	57	14	71	96	43	11	54	73	35	9	44	60
105	165	43	208	282	59	15	74	100	45	11	56	76	37	9	46	62
110	172	44	216	292	61	15	76	103	46	11	57	77	38	9	47	63
115	178	45	223	301	63	15	78	105	48	12	60	81	39	9	48	65
120	185	46	231	312	65	16	81	109	50	12	62	84	41	10	51	69

TABLE OF FOUNDATION LOADS - 45° SKEW

Span Average	Drilled Shaft Loads				Pile Load											
					3 Pile Ftg				4 Pile Ftg				5 Pile Ftg			
	DC	LL	Service I (1)	Strength I (2)	DC	LL	Service I (1)	Strength I (2)	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	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
40	84	27	111	152	32	9	41	56	25	7	32	44	20	6	26	36
45	91	29	120	165	34	10	44	60	26	8	34	47	22	6	28	38
50	97	30	127	174	36	10	46	63	28	8	36	49	23	6	29	39
55	104	31	135	184	38	11	49	67	29	8	37	50	24	7	31	42
60	110	33	143	195	40	11	51	69	31	9	40	55	26	7	33	45
65	116	34	150	205	42	12	54	74	33	9	42	57	27	7	34	46
70	123	35	158	215	44	12	56	76	34	9	43	58	28	7	35	47
75	129	36	165	224	47	12	59	80	36	9	45	61	30	8	38	52
80	136	38	174	237	49	13	62	84	37	10	47	64	31	8	39	53
85	142	39	181	246	51	13	64	87	39	10	49	66	32	8	40	54
90	149	40	189	256	53	14	67	91	41	10	51	69	33	8	41	55
95	155	41	196	266	55	14	69	93	42	11	53	72	35	9	44	60
100	161	42	203	275	57	14	71	96	44	11	55	74	36	9	45	61
105	168	43	211	285	60	15	75	101	46	11	57	77	37	9	46	62
110	174	44	218	295	62	15	77	104	47	11	58	78	39	9	48	65
115	181	45	226	305	64	15	79	106	49	12	61	82	40	9	49	66
120	187	46	233	314	66	16	82	111	50	12	62	84	41	10	51	69

- (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-40, BIG-40-15, BIG-40-30, and BIG-40-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING



**BENT FOUNDATION LOADS
 PRESTR CONCRETE I-GIRDERS
 TYPE Tx28 - Tx54
 40' ROADWAY
 IG-BFL40-24**

FILE: IG-BFL40-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS				HIGHWAY
	DIST		COUNTY	SHEET NO.

DATE:
FILE: