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DATE:
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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	94	28	122	167	35	10	45	61	27	7	34	46	22	6	28	38
45	102	30	132	180	37	10	47	64	29	8	37	50	24	6	30	41
50	110	31	141	192	40	11	51	69	31	8	39	53	26	7	33	45
55	118	33	151	205	43	11	54	73	33	9	42	57	27	7	34	46
60	126	34	160	217	46	12	58	79	35	9	44	60	29	7	36	49
65	134	35	169	229	48	12	60	81	37	9	46	62	30	7	37	50
70	142	37	179	242	51	13	64	87	39	10	49	66	32	8	40	54
75	150	38	188	254	54	13	67	90	41	10	51	69	34	8	42	57
80	158	39	197	266	56	13	69	93	43	10	53	71	35	8	43	58
85	166	40	206	278	59	14	73	98	45	10	55	74	37	8	45	60
90	174	42	216	291	62	14	76	102	47	11	58	78	38	9	47	63
95	182	43	225	303	64	15	79	106	49	11	60	81	40	9	49	66
100	190	44	234	315	67	15	82	110	51	11	62	83	42	9	51	68
105	198	45	243	326	70	15	85	114	53	12	65	87	43	9	52	70
110	206	46	252	338	72	16	88	118	55	12	67	90	45	10	55	74
115	214	47	261	350	75	16	91	122	57	12	69	92	46	10	56	75
120	222	49	271	363	78	17	95	127	59	13	72	97	48	10	58	78
125	230	50	280	375	80	17	97	130	61	13	74	99	50	10	60	80

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	94	28	122	167	35	10	45	61	27	7	34	46	23	6	29	39
45	102	30	132	180	38	10	48	65	29	8	37	50	24	6	30	41
50	110	31	141	192	40	11	51	69	31	8	39	53	26	7	33	45
55	118	33	151	205	43	11	54	73	33	9	42	57	27	7	34	46
60	126	34	160	217	46	12	58	79	35	9	44	60	29	7	36	49
65	134	35	169	229	48	12	60	81	37	9	46	62	31	7	38	51
70	142	37	179	242	51	13	64	87	39	10	49	66	32	8	40	54
75	150	38	188	254	54	13	67	90	41	10	51	69	34	8	42	57
80	158	39	197	266	56	13	69	93	43	10	53	71	35	8	43	58
85	166	40	206	278	59	14	73	98	45	10	55	74	37	8	45	60
90	174	42	216	291	62	14	76	102	47	11	58	78	39	9	47	63
95	182	43	225	303	64	15	79	106	49	11	60	81	40	9	49	66
100	191	44	235	316	67	15	82	110	51	11	62	83	42	9	51	68
105	199	45	244	328	70	15	85	114	53	12	65	87	43	9	52	70
110	207	46	253	339	72	16	88	118	55	12	67	90	45	10	55	74
115	215	47	262	351	75	16	91	122	57	12	69	92	47	10	57	76
120	223	49	272	365	78	17	95	127	59	13	72	97	48	10	58	78
125	231	50	281	376	80	17	97	130	61	13	74	99	50	10	60	80

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	96	28	124	169	35	10	45	61	27	7	34	46	23	6	29	39
45	104	30	134	183	38	10	48	65	29	8	37	50	24	6	30	41
50	112	31	143	194	41	11	52	71	31	8	39	53	26	7	33	45
55	120	33	153	208	43	11	54	73	34	9	43	58	28	7	35	47
60	128	34	162	220	46	12	58	79	36	9	45	61	29	7	36	49
65	136	35	171	231	49	12	61	82	38	9	47	63	31	7	38	51
70	144	37	181	245	52	13	65	88	40	10	50	68	32	8	40	54
75	152	38	190	257	54	13	67	90	42	10	52	70	34	8	42	57
80	160	39	199	268	57	13	70	94	44	10	54	73	36	8	44	59
85	168	40	208	280	60	14	74	100	46	10	56	75	37	8	45	60
90	176	42	218	294	62	14	76	102	48	11	59	79	39	9	48	65
95	184	43	227	305	65	15	80	108	50	11	61	82	40	9	49	66
100	192	44	236	317	68	15	83	111	52	11	63	84	42	9	51	68
105	200	45	245	329	70	15	85	114	54	12	66	89	44	9	53	71
110	208	46	254	341	73	16	89	119	56	12	68	91	45	10	55	74
115	216	47	263	352	76	16	92	123	58	12	70	94	47	10	57	76
120	224	49	273	366	78	17	95	127	60	13	73	98	48	10	58	78
125	232	50	282	378	81	17	98	131	62	13	75	100	50	10	60	80

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	79	21	100	136	30	7	37	50	23	6	29	39	19	5	24	33
45	85	23	108	147	32	8	40	54	25	6	31	42	21	5	26	35
50	91	24	115	156	34	8	42	57	26	6	32	43	22	5	27	36
55	97	25	122	165	36	9	45	61	28	7	35	47	23	5	28	38
60	103	26	129	174	38	9	47	63	29	7	36	49	24	6	30	41
65	109	27	136	184	40	9	49	66	31	7	38	51	25	6	31	42
70	115	28	143	193	42	10	52	70	32	7	39	52	27	6	33	44
75	121	29	150	202	44	10	54	73	34	8	42	57	28	6	34	46
80	127	30	157	211	46	10	56	75	35	8	43	58	29	6	35	47
85	133	30	163	219	48	10	58	78	37	8	45	60	30	6	36	48
90	139	31	170	228	50	11	61	82	38	8	46	62	31	7	38	51
95	145	32	177	237	52	11	63	84	40	8	48	64	33	7	40	54
100	151	33	184	247	54	11	65	87	41	9	50	67	34	7	41	55
105	157	34	191	256	56	12	68	91	43	9	52	70	35	7	42	56
110	163	35	198	265	58	12	70	94	44	9	53	71	36	7	43	57
115	169	36	205	274	60	12	72	96	46	9	55	73	37	8	45	60
120	175	37	212	284	62	13	75	100	47	10	57	76	39	8	47	63
125	181	37	218	291	64	13	77	103	49	10	59	79	40	8	48	64

- (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-34, BIG-34-15, BIG-34-30, and BIG-34-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING



BENT FOUNDATION LOADS
PRESTR CONCRETE I-GIRDERS
TYPE Tx28 - Tx54
34' ROADWAY
IG-BFL34-24

FILE: IG-BFL34-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS				HIGHWAY
		DIST	COUNTY	SHEET NO.