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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	98	36	134	186	36	12	48	66	28	9	37	51	23	8	31	43
45	106	38	144	199	39	13	52	72	30	10	40	55	25	8	33	45
50	115	40	155	214	42	14	56	77	32	10	42	58	27	8	35	48
55	123	42	165	227	45	14	59	81	34	11	45	62	28	9	37	51
60	131	43	174	239	47	15	62	85	36	11	47	64	30	9	39	53
65	140	45	185	254	50	15	65	89	38	12	50	69	32	9	41	56
70	148	47	195	267	53	16	69	94	41	12	53	72	33	10	43	59
75	156	48	204	279	56	16	72	98	43	12	55	75	35	10	45	61
80	165	50	215	294	59	17	76	104	45	13	58	79	37	10	47	64
85	173	51	224	306	61	17	78	106	47	13	60	82	38	11	49	67
90	182	53	235	320	64	18	82	112	49	14	63	86	40	11	51	69
95	190	54	244	332	67	18	85	115	51	14	65	88	42	11	53	72
100	198	56	254	346	70	19	89	121	53	14	67	91	43	12	55	75
105	207	57	264	359	72	19	91	123	55	15	70	95	45	12	57	77
110	215	59	274	372	75	20	95	129	57	15	72	98	47	12	59	80
115	224	60	284	385	78	20	98	133	59	15	74	100	48	12	60	81
120	232	62	294	399	81	21	102	138	62	16	78	106	50	13	63	85
125	240	63	303	410	84	21	105	142	64	16	80	108	52	13	65	88

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	100	36	136	188	37	12	49	67	29	9	38	52	24	8	32	44
45	108	38	146	202	40	13	53	73	31	10	41	56	25	8	33	45
50	117	40	157	216	42	14	56	77	33	10	43	59	27	8	35	48
55	125	42	167	230	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	30	9	39	53
65	142	45	187	256	51	15	66	90	39	12	51	70	32	9	41	56
70	150	47	197	270	54	16	70	96	41	12	53	72	34	10	44	60
75	159	48	207	283	56	16	72	98	43	12	55	75	35	10	45	61
80	167	50	217	296	59	17	76	104	45	13	58	79	37	10	47	64
85	175	51	226	308	62	17	79	107	47	13	60	82	39	11	50	68
90	184	53	237	323	65	18	83	113	49	14	63	86	40	11	51	69
95	192	54	246	335	68	18	86	117	52	14	66	90	42	11	53	72
100	201	56	257	349	70	19	89	121	54	14	68	92	44	12	56	76
105	209	57	266	361	73	19	92	125	56	15	71	96	45	12	57	77
110	217	59	276	375	76	20	96	130	58	15	73	99	47	12	59	80
115	226	60	286	388	79	20	99	134	60	15	75	101	49	12	61	82
120	234	62	296	401	82	21	103	139	62	16	78	106	50	13	63	85
125	242	63	305	413	84	21	105	142	64	16	80	108	52	13	65	88

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

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	98	36	134	186	36	12	48	66	28	9	37	51	23	8	31	43
45	107	38	145	200	39	13	52	72	30	10	40	55	25	8	33	45
50	115	40	155	214	42	14	56	77	32	10	42	58	27	8	35	48
55	123	42	165	227	45	14	59	81	34	11	45	62	28	9	37	51
60	132	43	175	240	47	15	62	85	36	11	47	64	30	9	39	53
65	140	45	185	254	50	15	65	89	39	12	51	70	32	9	41	56
70	149	47	196	269	53	16	69	94	41	12	53	72	33	10	43	59
75	157	48	205	280	56	16	72	98	43	12	55	75	35	10	45	61
80	165	50	215	294	59	17	76	104	45	13	58	79	37	10	47	64
85	174	51	225	307	61	17	78	106	47	13	60	82	38	11	49	67
90	182	53	235	320	64	18	82	112	49	14	63	86	40	11	51	69
95	190	54	244	332	67	18	85	115	51	14	65	88	42	11	53	72
100	199	56	255	347	70	19	89	121	53	14	67	91	43	12	55	75
105	207	57	264	359	73	19	92	125	55	15	70	95	45	12	57	77
110	216	59	275	373	75	20	95	129	57	15	72	98	47	12	59	80
115	224	60	284	385	78	20	98	133	60	15	75	101	48	12	60	81
120	232	62	294	399	81	21	102	138	62	16	78	106	50	13	63	85
125	241	63	304	412	84	21	105	142	64	16	80	108	52	13	65	88

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	82	27	109	150	31	9	40	55	24	7	31	42	20	6	26	36
45	89	29	118	162	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	41	12	53	72	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	126	36	162	221	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	139	39	178	242	50	13	63	85	38	10	48	65	31	8	39	53
90	145	40	185	251	52	14	66	90	40	10	50	68	33	8	41	55
95	151	41	192	261	54	14	68	92	41	11	52	71	34	9	43	58
100	158	42	200	271	56	14	70	95	43	11	54	73	35	9	44	60
105	164	43	207	280	58	15	73	99	45	11	56	76	36	9	45	61
110	170	44	214	290	60	15	75	101	46	11	57	77	38	9	47	63
115	177	45	222	300	62	15	77	104	48	12	60	81	39	9	48	65
120	183	46	229	309	64	16	80	108	49	12	61	82	40	10	50	68
125	189	48	237	320	67	16	83	112	51	12	63	85	41	10	51	69


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-38, BIG-38-15, BIG-38-30, and BIG-38-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

 Texas Department of Transportation		Bridge Division Standard	
BENT FOUNDATION LOADS PRESTR CONCRETE I-GIRDERS TYPE Tx28 - Tx54 38' ROADWAY IG-BFL38-24			
FILE: IG-BFL38-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT
©TxDOT	May 2024	CONTRACT	SECTION
REVISIONS		JOB	HIGHWAY
		DIST	COUNTY
			SHEET NO.