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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	81	28	109	150	31	10	41	56	24	7	31	42	20	6	26	36
45	87	30	117	161	33	10	43	59	25	8	33	45	21	6	27	37
50	94	31	125	172	35	11	46	63	27	8	35	48	22	7	29	40
55	101	33	134	184	37	11	48	66	29	9	38	52	24	7	31	42
60	107	34	141	193	39	12	51	70	30	9	39	53	25	7	32	44
65	114	35	149	204	42	12	54	74	32	9	41	56	26	7	33	45
70	121	37	158	216	44	13	57	78	34	10	44	60	28	8	36	49
75	127	38	165	225	46	13	59	80	35	10	45	61	29	8	37	50
80	134	39	173	236	48	13	61	83	37	10	47	64	30	8	38	52
85	140	40	180	245	50	14	64	87	39	10	49	66	32	8	40	54
90	147	42	189	257	53	14	67	91	40	11	51	69	33	9	42	57
95	154	43	197	268	55	15	70	95	42	11	53	72	34	9	43	58
100	160	44	204	277	57	15	72	98	44	11	55	74	36	9	45	61
105	167	45	212	288	59	15	74	100	45	12	57	77	37	9	46	62
110	174	46	220	298	61	16	77	104	47	12	59	80	38	10	48	65
115	180	47	227	307	64	16	80	108	49	12	61	82	40	10	50	68
120	187	49	236	320	66	17	83	112	50	13	63	85	41	10	51	69
125	193	50	243	329	68	17	85	115	52	13	65	88	42	10	52	70

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	83	28	111	153	31	10	41	56	24	7	31	42	20	6	26	36
45	89	30	119	164	33	10	43	59	26	8	34	47	21	6	27	37
50	96	31	127	174	35	11	46	63	27	8	35	48	23	7	30	41
55	102	33	135	185	38	11	49	67	29	9	38	52	24	7	31	42
60	109	34	143	196	40	12	52	71	31	9	40	55	25	7	32	44
65	116	35	151	206	42	12	54	74	32	9	41	56	27	7	34	46
70	122	37	159	217	44	13	57	78	34	10	44	60	28	8	36	49
75	129	38	167	228	47	13	60	82	36	10	46	63	29	8	37	50
80	136	39	175	238	49	13	62	84	37	10	47	64	31	8	39	53
85	142	40	182	248	51	14	65	88	39	10	49	66	32	8	40	54
90	149	42	191	260	53	14	67	91	41	11	52	71	33	9	42	57
95	155	43	198	269	55	15	70	95	42	11	53	72	35	9	44	60
100	162	44	206	280	58	15	73	99	44	11	55	74	36	9	45	61
105	169	45	214	290	60	15	75	101	46	12	58	79	37	9	46	62
110	175	46	221	299	62	16	78	106	47	12	59	80	39	10	49	66
115	182	47	229	310	64	16	80	108	49	12	61	82	40	10	50	68
120	189	49	238	322	66	17	83	112	51	13	64	87	41	10	51	69
125	195	50	245	331	69	17	86	116	52	13	65	88	43	10	53	71

- (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-28, BIG-28-15, BIG-28-30, and BIG-28-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

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	81	28	109	150	31	10	41	56	24	7	31	42	20	6	26	36
45	88	30	118	163	33	10	43	59	25	8	33	45	21	6	27	37
50	94	31	125	172	35	11	46	63	27	8	35	48	23	7	30	41
55	101	33	134	184	37	11	48	66	29	9	38	52	24	7	31	42
60	108	34	142	195	39	12	51	70	30	9	39	53	25	7	32	44
65	114	35	149	204	42	12	54	74	32	9	41	56	27	7	34	46
70	121	37	158	216	44	13	57	78	34	10	44	60	28	8	36	49
75	128	38	166	227	46	13	59	80	35	10	45	61	29	8	37	50
80	134	39	173	236	48	13	61	83	37	10	47	64	30	8	38	52
85	141	40	181	246	50	14	64	87	39	10	49	66	32	8	40	54
90	147	42	189	257	53	14	67	91	40	11	51	69	33	9	42	57
95	154	43	197	268	55	15	70	95	42	11	53	72	34	9	43	58
100	161	44	205	278	57	15	72	98	44	11	55	74	36	9	45	61
105	167	45	212	288	59	15	74	100	45	12	57	77	37	9	46	62
110	174	46	220	298	62	16	78	106	47	12	59	80	38	10	48	65
115	181	47	228	309	64	16	80	108	49	12	61	82	40	10	50	68
120	187	49	236	320	66	17	83	112	50	13	63	85	41	10	51	69
125	194	50	244	330	68	17	85	115	52	13	65	88	42	10	52	70

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	85	28	113	155	32	10	42	58	25	7	32	44	21	6	27	37
45	92	30	122	168	34	10	44	60	26	8	34	47	22	6	28	38
50	98	31	129	177	36	11	47	64	28	8	36	49	23	7	30	41
55	105	33	138	189	39	11	50	68	30	9	39	53	25	7	32	44
60	111	34	145	198	41	12	53	72	31	9	40	55	26	7	33	45
65	118	35	153	209	43	12	55	75	33	9	42	57	27	7	34	46
70	125	37	162	221	45	13	58	79	35	10	45	61	29	8	37	50
75	131	38	169	230	47	13	60	82	36	10	46	63	30	8	38	52
80	138	39	177	241	50	13	63	85	38	10	48	65	31	8	39	53
85	145	40	185	251	52	14	66	90	40	10	50	68	33	8	41	55
90	151	42	193	262	54	14	68	92	41	11	52	71	34	9	43	58
95	158	43	201	273	56	15	71	96	43	11	54	73	35	9	44	60
100	164	44	208	282	58	15	73	99	45	11	56	76	37	9	46	62
105	171	45	216	293	61	15	76	103	46	12	58	79	38	9	47	63
110	178	46	224	303	63	16	79	107	48	12	60	81	39	10	49	66
115	184	47	231	312	65	16	81	109	50	12	62	84	41	10	51	69
120	191	49	240	325	67	17	84	114	51	13	64	87	42	10	52	70
125	198	50	248	335	69	17	86	116	53	13	66	89	43	10	53	71

HL93 LOADING

Texas Department of Transportation		Bridge Division Standard
<p>BENT FOUNDATION LOADS PRESTR CONCRETE I-GIRDERS TYPE Tx28 - Tx54 28' ROADWAY IG-BFL28-24</p>		
FILE: IG-BFL28-24.dgn	DN: TxDOT	CK: TxDOT
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CONTRACT	SECTION	JOB
DISTRICT	COUNTY	SHEET NO.