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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	88	27	115	157	33	9	42	57	25	7	32	44	21	6	27	37
45	95	29	124	170	35	10	45	61	27	8	35	48	23	6	29	39
50	102	30	132	180	38	10	48	65	29	8	37	50	24	6	30	41
55	110	31	141	192	40	11	51	69	31	8	39	53	26	7	33	45
60	117	33	150	204	42	11	53	72	33	9	42	57	27	7	34	46
65	124	34	158	215	45	12	57	77	35	9	44	60	28	7	35	47
70	131	35	166	225	47	12	59	80	36	9	45	61	30	7	37	50
75	139	36	175	237	50	12	62	84	38	9	47	63	31	8	39	53
80	146	38	184	249	52	13	65	88	40	10	50	68	33	8	41	55
85	153	39	192	260	55	13	68	92	42	10	52	70	34	8	42	57
90	161	40	201	271	57	14	71	96	44	10	54	73	36	8	44	59
95	168	41	209	282	60	14	74	100	46	11	57	77	37	9	46	62
100	175	42	217	292	62	14	76	102	47	11	58	78	39	9	48	65
105	182	43	225	303	64	15	79	106	49	11	60	81	40	9	49	66
110	190	44	234	315	67	15	82	110	51	11	62	83	42	9	51	68
115	197	45	242	325	69	15	84	113	53	12	65	87	43	9	52	70
120	204	46	250	336	72	16	88	118	55	12	67	90	45	10	55	74
125	212	48	260	349	74	16	90	121	56	12	68	91	46	10	56	75

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	88	27	115	157	33	9	42	57	26	7	33	45	21	6	27	37
45	95	29	124	170	35	10	45	61	27	8	35	48	23	6	29	39
50	103	30	133	181	38	10	48	65	29	8	37	50	24	6	30	41
55	110	31	141	192	40	11	51	69	31	8	39	53	26	7	33	45
60	117	33	150	204	43	11	54	73	33	9	42	57	27	7	34	46
65	124	34	158	215	45	12	57	77	35	9	44	60	29	7	36	49
70	132	35	167	226	47	12	59	80	36	9	45	61	30	7	37	50
75	139	36	175	237	50	12	62	84	38	9	47	63	31	8	39	53
80	146	38	184	249	52	13	65	88	40	10	50	68	33	8	41	55
85	154	39	193	261	55	13	68	92	42	10	52	70	34	8	42	57
90	161	40	201	271	57	14	71	96	44	10	54	73	36	8	44	59
95	168	41	209	282	60	14	74	100	46	11	57	77	37	9	46	62
100	176	42	218	294	62	14	76	102	47	11	58	78	39	9	48	65
105	183	43	226	304	64	15	79	106	49	11	60	81	40	9	49	66
110	190	44	234	315	67	15	82	110	51	11	62	83	42	9	51	68
115	197	45	242	325	69	15	84	113	53	12	65	87	43	9	52	70
120	205	46	251	337	72	16	88	118	55	12	67	90	45	10	55	74
125	212	48	260	349	74	16	90	121	57	12	69	92	46	10	56	75

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	90	27	117	160	33	9	42	57	26	7	33	45	22	6	28	38
45	97	29	126	172	36	10	46	63	28	8	36	49	23	6	29	39
50	104	30	134	183	38	10	48	65	30	8	38	52	24	6	30	41
55	111	31	142	193	41	11	52	71	31	8	39	53	26	7	33	45
60	119	33	152	207	43	11	54	73	33	9	42	57	27	7	34	46
65	126	34	160	217	46	12	58	79	35	9	44	60	29	7	36	49
70	133	35	168	228	48	12	60	81	37	9	46	62	30	7	37	50
75	141	36	177	239	50	12	62	84	39	9	48	65	32	8	40	54
80	148	38	186	252	53	13	66	89	41	10	51	69	33	8	41	55
85	155	39	194	262	55	13	68	92	42	10	52	70	35	8	43	58
90	162	40	202	273	58	14	72	97	44	10	54	73	36	8	44	59
95	170	41	211	284	60	14	74	100	46	11	57	77	38	9	47	63
100	177	42	219	295	63	14	77	103	48	11	59	79	39	9	48	65
105	184	43	227	305	65	15	80	108	50	11	61	82	41	9	50	67
110	192	44	236	317	67	15	82	110	51	11	62	83	42	9	51	68
115	199	45	244	328	70	15	85	114	53	12	65	87	43	9	52	70
120	206	46	252	338	72	16	88	118	55	12	67	90	45	10	55	74
125	213	48	261	350	75	16	91	122	57	12	69	92	46	10	56	75

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	92	27	119	162	34	9	43	58	27	7	34	46	22	6	28	38
45	100	29	129	176	37	10	47	64	28	8	36	49	24	6	30	41
50	107	30	137	186	39	10	49	66	30	8	38	52	25	6	31	42
55	114	31	145	197	42	11	53	72	32	8	40	54	26	7	33	45
60	121	33	154	209	44	11	55	74	34	9	43	58	28	7	35	47
65	129	34	163	221	46	12	58	79	36	9	45	61	29	7	36	49
70	136	35	171	231	49	12	61	82	38	9	47	63	31	7	38	51
75	143	36	179	242	51	12	63	85	39	9	48	65	32	8	40	54
80	151	38	189	255	54	13	67	90	41	10	51	69	34	8	42	57
85	158	39	197	266	56	13	69	93	43	10	53	71	35	8	43	58
90	165	40	205	276	59	14	73	98	45	10	55	74	37	8	45	60
95	172	41	213	287	61	14	75	101	47	11	58	78	38	9	47	63
100	180	42	222	299	63	14	77	103	48	11	59	79	40	9	49	66
105	187	43	230	309	66	15	81	109	50	11	61	82	41	9	50	67
110	194	44	238	320	68	15	83	111	52	11	63	84	43	9	52	70
115	202	45	247	331	71	15	86	115	54	12	66	89	44	9	53	71
120	209	46	255	342	73	16	89	119	56	12	68	91	45	10	55	74
125	216	48	264	354	76	16	92	123	58	12	70	94	47	10	57	76

- (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-44, BIG-44-15, BIG-44-30, and BIG-44-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING



BENT FOUNDATION LOADS
PRESTR CONCRETE I-GIRDERS
TYPE Tx28 - Tx54
44' ROADWAY
IG-BFL44-24

FILE: IG-BFL44-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT	May 2024	CONT	SECT	JOB
REVISIONS				HIGHWAY
		DIST	COUNTY	SHEET NO.

DATE:
FILE: