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TABLE OF FOUNDATION LOADS - 0° SKEW									
Span Length	Drilled Shaft Loads				Pile Loads				
	DC	LL	Service I (1)	Strength I (2)	DC	EH (3)	LL	Service I (1)	Strength I (2)
	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
Ft									
60	53	21	74	103	28	17	20	65	96
65	56	22	78	109	29	17	21	67	99
70	59	22	81	112	31	17	21	69	101
75	62	23	85	118	32	17	21	70	102
80	65	23	88	122	34	17	21	72	105
85	68	24	92	127	36	17	22	75	109
90	72	24	96	132	37	17	22	76	110
95	75	25	100	138	39	17	22	78	113
100	78	25	103	141	40	17	23	80	116
105	81	26	107	147	42	17	23	82	118
110	84	26	110	151	43	17	23	83	120
115	87	27	114	156	45	17	23	85	122
120	90	27	117	160	47	17	24	88	126
125	93	28	121	165	48	17	24	89	128
130	96	28	124	169	50	17	24	91	130
135	99	29	128	175	51	17	24	92	131

TABLE OF FOUNDATION LOADS - 15° SKEW									
Span Length	Drilled Shaft Loads				Pile Loads				
	DC	LL	Service I (1)	Strength I (2)	DC	EH (3)	LL	Service I (1)	Strength I (2)
	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
Ft									
60	54	21	75	104	28	17	21	66	97
65	57	22	79	110	29	17	21	67	99
70	60	22	82	114	31	17	21	69	101
75	63	23	86	119	33	17	21	71	104
80	66	23	89	123	34	17	22	73	107
85	69	24	93	128	36	17	22	75	109
90	72	24	96	132	37	17	22	76	110
95	75	25	100	138	39	17	23	79	115
100	78	25	103	141	40	17	23	80	116
105	81	26	107	147	42	17	23	82	118
110	84	26	110	151	44	17	23	84	121
115	87	27	114	156	45	17	24	86	124
120	90	27	117	160	47	17	24	88	126
125	93	28	121	165	48	17	24	89	128
130	96	28	124	169	50	17	24	91	130
135	100	29	129	176	52	17	24	93	133

TABLE OF FOUNDATION LOADS - 30° SKEW									
Span Length	Drilled Shaft Loads				Pile Loads				
	DC	LL	Service I (1)	Strength I (2)	DC	EH (3)	LL	Service I (1)	Strength I (2)
	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
Ft									
60	55	21	76	106	28	19	21	68	100
65	58	22	80	111	30	19	22	71	105
70	61	22	83	115	32	19	22	73	107
75	64	23	87	120	33	19	22	74	108
80	67	23	90	124	35	19	23	77	113
85	70	24	94	130	36	19	23	78	114
90	73	24	97	133	38	19	23	80	116
95	76	25	101	139	40	19	23	82	119
100	79	25	104	143	41	19	24	84	122
105	82	26	108	148	43	19	24	86	124
110	85	26	111	152	44	19	24	87	126
115	88	27	115	157	46	19	24	89	128
120	92	27	119	162	47	19	25	91	131
125	95	28	123	168	49	19	25	93	134
130	98	28	126	172	51	19	25	95	136
135	101	29	130	177	52	19	25	96	137

TABLE OF FOUNDATION LOADS - 45° SKEW									
Span Length	Drilled Shaft Loads				Pile Loads				
	DC	LL	Service I (1)	Strength I (2)	DC	EH (3)	LL	Service I (1)	Strength I (2)
	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
Ft									
60	48	17	65	90	25	19	20	64	95
65	51	18	69	95	26	19	20	65	96
70	53	19	72	100	28	19	20	67	99
75	56	19	75	103	29	19	20	68	100
80	58	19	77	106	30	19	21	70	103
85	61	20	81	111	32	19	21	72	105
90	63	20	83	114	33	19	21	73	107
95	66	21	87	119	34	19	21	74	108
100	68	21	89	122	35	19	22	76	111
105	71	22	93	127	37	19	22	78	113
110	74	22	96	131	38	19	22	79	115
115	76	22	98	134	39	19	22	80	116
120	79	23	102	139	41	19	22	82	118
125	81	23	104	142	42	19	23	84	121
130	84	24	108	147	43	19	23	85	123
135	86	24	110	150	45	19	23	87	125

- ① 1.00DC + 1.00EH + 1.00LL (all other loads not included)
- ② 1.25DC + 1.50EH + 1.75LL (all other loads not included)
- ③ Axial load due to the soil pressure acting on the backwall, which is generated due to the pile batter.


GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.

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 abutments shown on the standards AIG-62-44, AIG-62-44-15, AIG-62-44-30, and AIG-62-44-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

				Bridge Division Standard	
ABUTMENT FOUNDATION LOADS PRESTR CONCRETE I-GIRDERS TYPE Tx62 44' ROADWAY IG-AFL6244-24					
FILE: IG-AFL6244-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT	
©TxDOT	May 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS		DIST		COUNTY	SHEET NO.

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