

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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
60	58	27	85	120	30	16	23	69	102
65	61	28	89	125	32	16	23	71	104
70	65	29	94	132	34	16	24	74	109
75	68	30	98	138	35	16	24	75	110
80	71	30	101	141	37	16	25	78	114
85	74	31	105	147	39	16	25	80	117
90	78	32	110	154	40	16	25	81	118
95	81	32	113	157	42	16	26	84	122
100	84	33	117	163	44	16	26	86	125
105	88	34	122	170	45	16	26	87	126
110	91	34	125	173	47	16	27	90	130
115	94	35	129	179	49	16	27	92	133
120	97	35	132	183	50	16	27	93	134
125	101	36	137	189	52	16	28	96	138
130	104	37	141	195	54	16	28	98	141
135	107	37	144	199	55	16	28	99	142

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
60	58	27	85	120	30	16	23	69	102
65	62	28	90	127	32	16	24	72	106
70	65	29	94	132	34	16	24	74	109
75	68	30	98	138	35	16	24	75	110
80	72	30	102	143	37	16	25	78	114
85	75	31	106	148	39	16	25	80	117
90	78	32	110	154	40	16	26	82	120
95	81	32	113	157	42	16	26	84	122
100	85	33	118	164	44	16	26	86	125
105	88	34	122	170	46	16	27	89	129
110	91	34	125	173	47	16	27	90	130
115	94	35	129	179	49	16	27	92	133
120	98	35	133	184	51	16	28	95	137
125	101	36	137	189	52	16	28	96	138
130	104	37	141	195	54	16	28	98	141
135	108	37	145	200	56	16	28	100	143

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
60	59	27	86	121	31	17	24	72	106
65	63	28	91	128	33	17	24	74	109
70	66	29	95	133	34	17	25	76	112
75	69	30	99	139	36	17	25	78	114
80	73	30	103	144	38	17	26	81	119
85	76	31	107	149	39	17	26	82	120
90	79	32	111	155	41	17	26	84	122
95	82	32	114	159	43	17	27	87	127
100	86	33	119	165	44	17	27	88	128
105	89	34	123	171	46	17	27	90	130
110	92	34	126	175	48	17	28	93	135
115	95	35	130	180	49	17	28	94	136
120	99	35	134	185	51	17	28	96	138
125	102	36	138	191	53	17	29	99	143
130	105	37	142	196	54	17	29	100	144
135	109	37	146	201	56	17	29	102	146

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
60	46	20	66	93	24	15	19	58	86
65	49	21	70	98	25	15	19	59	87
70	51	22	73	102	27	15	20	62	91
75	54	22	76	106	28	15	20	63	93
80	56	23	79	110	29	15	20	64	94
85	59	23	82	114	31	15	21	67	98
90	61	24	85	118	32	15	21	68	99
95	64	24	88	122	33	15	21	69	101
100	66	25	91	126	34	15	21	70	102
105	69	25	94	130	36	15	22	73	106
110	71	26	97	134	37	15	22	74	107
115	74	26	100	138	38	15	22	75	109
120	76	27	103	142	39	15	22	76	110
125	78	27	105	145	41	15	23	79	114
130	81	28	109	150	42	15	23	80	115
135	83	28	111	153	43	15	23	81	117

- 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-62-24, AIG-62-24-15, AIG-62-24-30, and AIG-62-24-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

				Bridge Division Standard	
ABUTMENT FOUNDATION LOADS PRESTR CONCRETE I-GIRDERS TYPE Tx62 24' ROADWAY IG-AFL6224-24					
FILE: IG-AFL6224-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT	
©TxDOT	May 2024	CONT	SECT	JOB	HIGHWAY
REVISIONS					
		DIST	COUNTY	SHEET NO.	

DATE:
FILE: