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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
40	40	17	57	80	21	14	18	53	79
45	43	18	61	85	22	14	18	54	80
50	46	19	65	91	24	14	19	57	84
55	49	20	69	96	25	14	19	58	86
60	52	20	72	100	27	14	19	60	88
65	55	21	76	106	29	14	20	63	92
70	58	22	80	111	30	14	20	64	94
75	61	22	83	115	32	14	20	66	96
80	64	23	87	120	33	14	20	67	97
85	67	23	90	124	35	14	21	70	102
90	70	24	94	130	36	14	21	71	103
95	73	24	97	133	38	14	21	73	105
100	76	25	101	139	39	14	21	74	107
105	79	25	104	143	41	14	22	77	111
110	82	26	108	148	42	14	22	78	112
115	85	26	111	152	44	14	22	80	115
120	88	27	115	157	46	14	22	82	117
125	91	27	118	161	47	14	23	84	120

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
40	40	17	57	80	21	15	18	54	80
45	43	18	61	85	23	15	18	56	83
50	46	19	65	91	24	15	19	58	86
55	49	20	69	96	26	15	19	60	88
60	52	20	72	100	27	15	20	62	91
65	55	21	76	106	29	15	20	64	94
70	58	22	80	111	30	15	20	65	95
75	61	22	83	115	32	15	20	67	98
80	64	23	87	120	33	15	21	69	101
85	67	23	90	124	35	15	21	71	103
90	70	24	94	130	36	15	21	72	104
95	73	24	97	133	38	15	21	74	107
100	76	25	101	139	40	15	22	77	111
105	79	25	104	143	41	15	22	78	112
110	82	26	108	148	43	15	22	80	115
115	85	26	111	152	44	15	22	81	116
120	88	27	115	157	46	15	23	84	120
125	91	27	118	161	47	15	23	85	122

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
40	41	17	58	81	21	16	19	56	84
45	44	18	62	87	23	16	19	58	86
50	47	19	66	92	25	16	20	61	90
55	50	20	70	98	26	16	20	62	92
60	53	20	73	101	28	16	20	64	94
65	56	21	77	107	29	16	21	66	97
70	59	22	81	112	31	16	21	68	100
75	62	22	84	116	32	16	21	69	101
80	65	23	88	122	34	16	21	71	103
85	68	23	91	125	35	16	22	73	106
90	71	24	95	131	37	16	22	75	109
95	74	24	98	135	39	16	22	77	111
100	77	25	102	140	40	16	23	79	114
105	80	25	105	144	42	16	23	81	117
110	83	26	109	149	43	16	23	82	118
115	86	26	112	153	45	16	23	84	121
120	89	27	116	159	46	16	23	85	122
125	92	27	119	162	48	16	24	88	126

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
40	35	14	49	68	18	15	16	49	73
45	37	15	52	73	19	15	17	51	76
50	40	15	55	76	21	15	17	53	79
55	42	16	58	81	22	15	17	54	80
60	45	16	61	84	23	15	18	56	83
65	47	17	64	89	24	15	18	57	84
70	49	17	66	91	26	15	18	59	87
75	52	18	70	97	27	15	18	60	88
80	54	18	72	99	28	15	18	61	89
85	57	19	76	105	29	15	19	63	92
90	59	19	78	107	31	15	19	65	95
95	61	20	81	111	32	15	19	66	96
100	64	20	84	115	33	15	19	67	97
105	66	20	86	118	34	15	20	69	100
110	69	21	90	123	36	15	20	71	103
115	71	21	92	126	37	15	20	72	104
120	73	21	94	128	38	15	20	73	105
125	76	22	98	134	39	15	20	74	106

- 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-34, AIG-34-15, AIG 34-30, and AIG-34-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING



**ABUTMENT FOUNDATION LOADS
PRESTR CONCRETE I-GIRDERS
TYPE Tx28 - Tx54
34' ROADWAY
IG-AFL34-24**

FILE: IG-AFL34-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	DIST	COUNTY	SHEET NO.	