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TABLE OF FOUNDATION LOADS									
28' Roadway - 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)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
30	29	20	49	72	15	13	22	50	77
35	30	22	52	76	16	13	23	52	80
40	32	23	55	81	17	13	24	54	83
45	34	24	58	85	18	13	24	55	84
50	37	25	62	90	19	13	25	57	87
55	39	26	65	95	20	13	25	58	89
60	41	27	68	99	21	13	26	60	92
65	43	28	71	103	22	13	26	61	93
70	46	29	75	109	24	13	27	64	97
75	48	30	78	113	25	13	27	65	98
80	51	30	81	117	27	13	28	68	103
85	53	31	84	121	28	13	28	69	104
90	57	32	89	128	30	13	28	71	106
95	59	32	91	130	31	13	29	73	109
100	62	33	95	136	32	13	29	74	111
105	64	34	98	140	33	13	29	75	112
110	69	34	103	146	36	13	30	79	117
115	72	35	107	152	37	13	30	80	119
120	76	35	111	157	39	13	30	82	121

TABLE OF FOUNDATION LOADS									
28' Roadway - 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)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
30	29	20	49	72	15	13	22	50	77
35	30	22	52	76	16	13	23	52	80
40	33	23	56	82	17	13	24	54	83
45	35	24	59	86	18	13	24	55	84
50	37	25	62	90	19	13	25	57	87
55	39	26	65	95	20	13	25	58	89
60	41	27	68	99	21	13	26	60	92
65	43	28	71	103	22	13	26	61	93
70	46	29	75	109	24	13	27	64	97
75	48	30	78	113	25	13	27	65	98
80	51	30	81	117	27	13	28	68	103
85	54	31	85	122	28	13	28	69	104
90	57	32	89	128	30	13	28	71	106
95	59	32	91	130	31	13	29	73	109
100	63	33	96	137	33	13	29	75	112
105	65	34	99	141	34	13	29	76	113
110	69	34	103	146	36	13	30	79	117
115	72	35	107	152	37	13	30	80	119
120	76	35	111	157	39	13	30	82	121

TABLE OF FOUNDATION LOADS									
28' Roadway - 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)
Ft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Shaft	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile	Tons/Pile
30	30	20	50	73	16	13	22	51	78
35	31	22	53	78	16	13	23	52	80
40	33	23	56	82	17	13	24	54	83
45	36	24	60	87	19	13	24	56	86
50	38	25	63	92	20	13	25	58	89
55	40	26	66	96	21	13	25	59	90
60	42	27	69	100	22	13	26	61	93
65	44	28	72	104	23	13	26	62	94
70	47	29	76	110	24	13	27	64	97
75	49	30	79	114	26	13	27	66	100
80	52	30	82	118	27	13	28	68	103
85	55	31	86	123	28	13	28	69	104
90	58	32	90	129	30	13	28	71	106
95	60	32	92	131	31	13	29	73	109
100	64	33	97	138	33	13	29	75	112
105	66	34	100	142	34	13	29	76	113
110	70	34	104	147	36	13	30	79	117
115	73	35	108	153	38	13	30	81	120
120	77	35	112	158	40	13	30	83	122

- 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 steel beam abutments shown on the standards ASB-28, ASB-28-15, and ASB-28-30.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

 Texas Department of Transportation	Bridge Division Standard
<h2 style="margin: 0;">ABUTMENT FOUNDATION LOADS</h2> <h3 style="margin: 0;">STEEL BEAMS</h3> <h3 style="margin: 0;">28' ROADWAY</h3> <h2 style="margin: 0;">SB-AFL28-24</h2>	
FILE: SB-AFL28-24.dgn © TxDOT May 2024	DN: TxDOT CK: TxDOT DW: TxDOT CK: TxDOT CONT SECT JOB HIGHWAY REVISIONS DIST COUNTY SHEET NO.