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TABLE OF FOUNDATION LOADS									
24' 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	31	20	51	74	16	6	16	38	57
35	35	21	56	81	18	6	17	41	61
40	38	23	61	88	19	6	18	43	64
45	41	24	65	93	21	6	18	45	67
50	44	25	69	99	23	6	19	48	71
55	48	26	74	106	25	6	20	51	75
60	51	27	78	111	26	6	20	52	77
65	54	27	81	115	28	6	20	54	79
70	58	28	86	122	30	6	21	57	83
75	61	29	90	127	31	6	21	58	85
80	64	30	94	133	33	6	22	61	89
85	68	30	98	138	35	6	22	63	91
90	71	31	102	143	37	6	22	65	94
95	74	32	106	149	38	6	23	67	97

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	34	20	54	78	17	6	17	40	60
35	37	21	58	83	19	6	18	43	64
40	41	23	64	92	21	6	19	46	69
45	45	24	69	98	23	6	19	48	71
50	48	25	73	104	25	6	20	51	75
55	52	26	78	111	27	6	20	53	78
60	56	27	83	117	29	6	21	56	82
65	59	27	86	121	30	6	21	57	83
70	63	28	91	128	32	6	22	60	88
75	66	29	95	133	34	6	22	62	90
80	70	30	100	140	36	6	22	64	93
85	74	30	104	145	38	6	23	67	97
90	77	31	108	151	40	6	23	69	99
95	81	32	113	157	42	6	24	72	104
100	85	32	117	162	44	6	24	74	106

TABLE OF FOUNDATION LOADS									
30' 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	36	20	56	80	18	6	18	42	63
35	40	21	61	87	20	6	19	45	67
40	44	23	67	95	22	6	19	47	70
45	48	24	72	102	24	6	20	50	74
50	51	25	76	108	27	6	20	53	78
55	55	26	81	114	29	6	21	56	82
60	59	27	86	121	31	6	21	58	85
65	63	27	90	126	33	6	22	61	89
70	67	28	95	133	35	6	22	63	91
75	71	29	100	140	37	6	23	66	96
80	75	30	105	146	39	6	23	68	98
85	79	30	109	151	41	6	23	70	101
90	83	31	114	158	43	6	24	73	105
95	87	32	119	165	45	6	24	75	107
100	91	32	123	170	47	6	24	77	110

- 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 box beam abutments shown on the standards ABB-24, ABB-28, and ABB-30.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

				Bridge Division Standard	
ABUTMENT FOUNDATION LOADS BOX BEAMS					
BB-AFL-24					
FILE: BB-AFL-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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