

SPAN IN FEET	RISE NO. OF PLATES AND R/S	SPRINGING LINE ABOVE STREAMBED-HSL				SPANDREL ONE WALL		COVER IN FEET	SOIL BEARING = 6000 LBS. PER SQ. FT.				SOIL BEARING = 10000 LBS. PER SQ. FT.							
		0'	1'	2'	3'	LSW	CU.YD.		ABUTMENT		PIER		ABUTMENT		PIER					
									DEPTH D=3'	DEPTH D=5'	BB	FF	CY./FOOT	DEPTH D=3'	DEPTH D=5'	BB	FF	CY./FOOT		
		TOTAL AREA (SQ. FT.)																		
6	2'-5" 2 0.40	11	16	21	26	7'-6"	1,124 ● .155	2 AND 3	2.2	.215	2.9	.417	2.5	0	.287	.472	2.1	.209	2.6	.389
								4 TO 6	2.3	.221	3.0	.426	2.5	0	.287	.472	2.0	.204	2.4	.371
								7 AND 8	2.3	.221	3.1	.435	2.5	0	.287	.472	2.0	.204	2.5	.380
								9 AND 10	2.5	.232	3.4	.463	2.5	0	.287	.472	2.1	.209	2.75	.403
7	3'-1" 2 1/2 0.44	16	22	28	34	8'-6"	1,402 ● .194	2 AND 3	2.2	.215	2.9	.417	2.5	0	.287	.472	2.0	.204	2.4	.371
								4 TO 6	2.2	.215	2.9	.417	2.5	0	.287	.472	1.8	.193	2.3	.361
								7 AND 8	2.4	.226	3.2	.447	2.5	0	.287	.472	1.8	.193	2.4	.371
								9 AND 10	2.6	.237	3.4	.463	2.5	0	.287	.472	2.1	.209	2.6	.389
8	2'-8" 2 1/2 0.33	15	22	29	36	9'-6"	1,487 ● .169	2 AND 3	2.5	.232	3.3	.454	2.5	0	.287	.472	2.4	.226	2.8	.408
								4 TO 6	2.5	.232	3.4	.463	2.5	0	.287	.472	2.3	.221	2.9	.417
								7 AND 8	2.7	.243	3.8	.500	2.5	0	.287	.472	2.3	.221	3.0	.426
								9 AND 10	3.1	.265	4.1	.528	2.5	0	.287	.472	2.4	.226	3.2	.447
9	3'-10" 3 0.48	24	31	38	45	9'-6"	1,731 ● .243	2 AND 3	2.1	.209	2.8	.408	2.5	0	.287	.472	1.9	.198	2.5	.380
								4 TO 6	2.3	.221	3.2	.447	2.5	0	.287	.472	1.9	.198	2.6	.380
								7 AND 8	2.4	.226	3.2	.447	2.5	0	.287	.472	2.0	.204	2.6	.389
								9 AND 10	2.6	.237	3.4	.463	2.5	0	.287	.472	2.1	.209	2.8	.408
10	3'-6" 3 0.39	23	31	39	47	10'-6"	1,843 ● .220	2 AND 3	2.4	.226	3.3	.454	2.5	0	.287	.472	2.2	.215	2.9	.417
								4 TO 6	2.6	.237	3.4	.463	2.5	0	.287	.472	2.1	.209	2.8	.408
								7 AND 8	2.9	.254	3.8	.500	2.5	0	.287	.472	2.2	.215	2.9	.417
								9 AND 10	3.1	.265	4.1	.528	2.7	0.1	.289	.474	2.4	.226	3.1	.435
11	4'-6" 3 1/2 0.50	32	40	48	56	10'-6"	2,080 ● .292	2 AND 3	2.1	.209	2.8	.408	2.5	0	.287	.472	1.8	.193	2.3	.361
								4 TO 6	2.3	.221	3.0	.426	2.5	0	.287	.472	1.9	.198	2.4	.371
								7 AND 8	2.5	.232	3.3	.454	2.5	0	.287	.472	2.0	.204	2.5	.380
								9 AND 10	2.7	.243	3.5	.472	2.7	0.1	.289	.474	2.2	.215	2.7	.398
12	3'-0" 3 0.30	21	30	39	48	11'-6"	1,941 ● .188	2 AND 3	2.8	.248	3.7	.491	2.5	0	.287	.472	2.5	.232	3.3	.454
								4 TO 6	3.2	.271	4.1	.528	2.5	0	.287	.472	2.6	.237	3.4	.463
								7 AND 8	3.4	.282	4.5	.565	2.5	0	.287	.472	2.6	.237	3.5	.472
								9 AND 10	3.5	.287	4.8	.593	2.9	0.2	.293	.478	2.8	.248	3.7	.491
13	4'-3" 3 1/2 0.42	31	40	49	58	11'-6"	2,374 ● .273	2 AND 3	2.4	.226	3.2	.447	2.5	0	.287	.472	2.0	.204	2.6	.389
								4 TO 6	2.6	.237	3.5	.472	2.5	0	.287	.472	2.1	.209	2.8	.408
								7 AND 8	3.0	.259	3.9	.509	2.5	0	.287	.472	2.4	.226	3.0	.426
								9 AND 10	3.4	.282	4.5	.565	2.9	0.2	.293	.478	2.7	.243	3.4	.463
14	5'-2" 4 0.50	41	50	59	68	11'-6"	2,465 ● .346	2 AND 3	2.3	.221	3.1	.435	2.5	0	.287	.472	1.9	.198	2.5	.380
								4 TO 6	2.4	.226	3.2	.447	2.5	0	.287	.472	1.9	.198	2.6	.389
								7 AND 8	2.6	.237	3.4	.463	2.5	0	.287	.472	2.1	.209	2.7	.398
								9 AND 10	2.8	.248	3.7	.491	2.9	0.2	.293	.478	2.2	.215	2.8	.408
15	3'-10" 3 1/2 0.34	30	40	50	60	12'-6"	2,832 ● .243	2 AND 3	2.8	.248	3.6	.482	2.5	0	.287	.472	2.5	.232	3.2	.447
								4 TO 6	3.0	.259	4.0	.519	2.5	0	.287	.472	2.5	.232	3.2	.447
								7 AND 8	3.2	.271	4.3	.546	2.7	0.1	.289	.474	2.6	.237	3.4	.463
								9 AND 10	3.4	.282	4.5	.565	3.1	0.3	.301	.486	2.8	.248	3.5	.472
16	5'-0" 4 0.45	41	51	61	71	12'-6"	2,804 ● .333	2 AND 3	2.4	.226	3.2	.447	2.5	0	.287	.472	2.0	.204	2.6	.389
								4 TO 6	2.7	.243	3.5	.472	2.5	0	.287	.472	2.0	.204	2.7	.398
								7 AND 8	3.0	.259	3.8	.500	2.7	0.1	.289	.474	2.3	.221	2.8	.408
								9 AND 10	3.3	.276	4.1	.528	3.1	0.3	.301	.486	2.5	.232	3.1	.435
17	3'-3" 3 1/2 0.27	27	38	49	60	13'-6"	2,366 ● .204	2 AND 3	3.2	.271	4.2	.537	2.5	0	.287	.472	2.8	.248	3.8	.500
								4 TO 6	3.5	.287	4.8	.593	2.5	0	.287	.472	2.9	.254	3.8	.500
								7 AND 8	3.9	.309	5.1	.621	2.9	0.2	.293	.478	3.1	.265	4.0	.519
								9 AND 10	4.2	.326	5.5	.658	3.3	0.4	.311	.496	3.3	.276	4.3	.546
18	4'-7" 4 0.38	41	52	63	74	13'-6"	2,696 ● .299	2 AND 3	2.7	.243	3.5	.472	2.5	0	.287	.472	2.2	.215	3.1	.435
								4 TO 6	2.9	.254	3.9	.509	2.5	0	.287	.472	2.4	.226	3.2	.447
								7 AND 8	3.2	.271	4.3	.546	2.9	0.2	.293	.478	2.5	.232	3.4	.463
								9 AND 10	3.4	.282	4.6	.574	3.3	0.4	.311	.496	2.7	.243	3.5	.472
19	5'-8" 4 1/2 0.47	51	62	73	84	13'-6"	3,370 ● .392	2 AND 3	2.4	.226	3.2	.447	2.5	0	.287	.472	1.9	.198	2.5	.380
								4 TO 6	2.7	.243	3.5	.472	2.5	0	.287	.472	2.1	.209	2.7	.398
								7 AND 8	2.9	.254	3.8	.500	2.9	0.2	.293	.478	2.3	.221	2.9	.417
								9 AND 10	3.1	.265	4.1	.528	3.3	0.4	.311	.496	2.4	.226	3.1	.435
20	4'-2" 4 0.32	38	50	62	74	14'-6"														