HS 20 Equivalents of HL 93						
	HS 20-44		HL 93			
	(No Impact)		(No Impact, Includes Lane and Semi or Tandem)			
SPAN					Equivalent HS Load	
[feet]	M [kip-ft]	V [kip]	M [kip-ft]	V [kip]	Moment	Shear
1	8.0	32.0	8.2	32.6	HS 20.4	HS 20.4
2	16.0	32.0	16.3	33.0	HS 20.4	HS 20.6
3	24.0	32.0	24.8	33.3	HS 20.7	HS 20.8
4	32.0	32.0	33.3	33.6	HS 20.8	HS 21.0
5	40.0	32.0	42.1	33.9	HS 21.0	HS 21.2
6	48.0	32.0	50.9	35.6	HS 21.2	HS 22.2
7	56.0	32.0	60.0	38.3	HS 21.4	HS 23.9
8	64.0	32.0	69.1	40.4	HS 21.6	HS 25.2
9	72.0	32.0	78.6	42.1	HS 21.8	HS 26.3
10	80.0	32.0	88.0	43.5	HS 22.0	HS 27.2
11	88.0	32.0	101.5	44.7	HS 23.1	HS 28.0
12	96.0	32.0	115.4	45.8	HS 24.0	HS 28.6
13	104.0	32.0	129.6	46.8	HS 24.9	HS 29.2
14	112.0	32.0	143.9	47.7	HS 25.7	HS 29.8
15	120.0	34.1	158.6	48.5	HS 26.4	HS 28.4
16	128.0	36.0	173.3	49.2	HS 27.1	HS 27.3
17	136.0	37.6	188.3	49.9	HS 27.7	HS 26.5
18	144.0	39.1	203.4	50.5	HS 28.2	HS 25.8
19	152.0	40.4	218.8	51.1	HS 28.8	HS 25.3
20	160.0	41.6	234.2	51.7	HS 29.3	HS 24.9
21	168.0	42.7	249.9	52.3	HS 29.8	HS 24.5
22	176.0	43.6	265.7	52.8	HS 30.2	HS 24.2
23	184.0	44.5	281.8	53.3	HS 30.6	HS 24.0
24	192.6	45.3	297.8	53.8	HS 30.9	HS 23.8
25	207.3	46.1	314.3	54.4	HS 30.3	HS 23.6
26	222.2	46.8	330.7	55.4	HS 29.8	HS 23.7
27	237.0	47.4	347.4	56.4	HS 29.3	HS 23.8
28	252.0	48.0	364.2	57.3	HS 28.9	HS 23.9
29	267.0	48.8	381.3	58.4	HS 28.6	HS 23.9
30	282.1	49.6	398.2	59.5	HS 28.2	HS 24.0
31	297.3	50.3	415.8	60.6	HS 28.0	HS 24.1
32	312.5	51.0	433.1	61.6	HS 27.7	HS 24.1
33	327.7	51.6	450.9	62.5	HS 27.5	HS 24.2
34	343.4	52.2	468.6	63.4	HS 27.3	HS 24.3
35	361.2	52.8	486.7	64.3	HS 26.9	HS 24.4
36	378.8	53.3	504.7	65.2	HS 26.6	HS 24.5
37	396.6	53.8	523.1	66.0	HS 26.4	HS 24.5
38	414.2	54.3	541.5	66.8	HS 26.1	HS 24.6
39	432.0	54.8	560.2	67.6	HS 25.9	HS 24.7
40	449.8	55.2	578.9	68.3	HS 25.7	HS 24.8
42	485.2	56.0	624.6	69.8	HS 25.7	HS 24.9
44	520.8	56.7	674.0	71.1	HS 25.9	HS 25.1
46	556.4	57.4	724.1	72.4	HS 26.0	HS 25.3
48	592.2	58.0	774.8	73.7	HS 26.2	HS 25.4
50	627.7	58.6	826.2	74.9	HS 26.3	HS 25.6
52	663.5	59.1	878.3	76.0	HS 26.5	HS 25.7
54	699.2	59.6	931.0	77.2	HS 26.6	HS 25.9
56	735.0	60.0	984.3	78.2	HS 26.8	HS 26.1
58	770.7	60.4	1038.4	79.3	HS 26.9	HS 26.3
60	806.4	60.8	1093.1	80.3	HS 27.1	HS 26.4
62	842.2	61.2	1148.4	81.3	HS 27.3	HS 26.6
64	878.0	61.5	1204.4	82.3	HS 27.4	HS 26.8
66	913.9	61.8	1261.0	83.3	HS 27.6	HS 26.9
68	949.6	62.1	1318.3	84.2	HS 27.8	HS 27.1
70	985.6	62.4	1376.2	85.1	HS 27.9	HS 27.3
75	1075.1	63.0	1523.9	87.4	HS 28.3	HS 27.7
80	1164.9	63.6	1675.6	89.5	HS 28.8	HS 28.2
85	1254.6	64.1	1831.3	91.6	HS 29.2	HS 28.6
90	1344.2	64.5	1991.2	93.7	HS 29.6	HS 29.0
95	1433.9	64.9	2154.8	95.6	HS 30.1	HS 29.5
100	1523.8	65.3	2322.8	97.6	HS 30.5	HS 29.9
110	1703.4	65.9	2670.5	101.4	HS 31.4	HS 30.8
120	1883.3	66.4	3034.2	105.1	HS 32.2	HS 31.7
130	2062.9	67.6	3414.0	108.8	HS 33.1	HS 32.2
140	2242.8	70.8	3809.8	112.3	HS 34.0	HS 31.7
150	2475.0	74.0	4221.6	115.8	HS 34.1	HS 31.3
160	2768.0	77.2	4649.5	119.3	HS 33.6	HS 30.9
170	3077.0	80.4	5093.4	122.8	HS 33.1	HS 30.5
180	3402.0	83.6	5553.3	126.2	HS 32.6	HS 30.2
190	3743.0	86.8	6029.2	129.6	HS 32.2	HS 29.9
200	4100.0	90.0	6521.1	133.0	HS 31.8	HS 29.5
220	4862.0	96.4	7552.9	139.7	HS 31.1	HS 29.0
240	5688.0	102.8	8648.8	146.3	HS 30.4	HS 28.5
260	6578.0	109.2	9808.7	152.9	HS 29.8	HS 28.0
280	7532.0	115.6	11032.0	159.5	HS 29.3	HS 27.6
300	8550.0	122.0	12320.0	166.1	HS 28.8	HS 27.2
Prepared at NHDOT January 2012						