

LOAD FACTORS:

DESIGN LOAD RATING FACTORS	LIMIT STATE	γ_{DC}	γ_{DW}
	STRENGTH I	1.25	1.50
	SERVICE III	1.00	1.00

LEVEL	VEHICLE	WEIGHT (W) (TONS)	CONTROLLING LOAD RATING #	MINIMUM RATING FACTORS (RF)	TONS = W x RF	STRENGTH I LIMIT STATE										SERVICE III LIMIT STATE					COMMENT NUMBER			
						MOMENT					SHEAR					MOMENT								
						LIVE-LOAD FACTORS (γ_{LL})	DISTRIBUTION FACTORS (DF)	RATING FACTOR	SPAN	GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	DISTRIBUTION FACTORS (DF)	RATING FACTOR	SPAN	GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	LIVE-LOAD FACTORS (γ_{LL})	DISTRIBUTION FACTORS (DF)	RATING FACTOR	SPAN		GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	
DESIGN LOAD RATING	HL-93 (INVENTORY)	N/A	1	1.19	--	1.75	0.81	1.50	A	E	47.25	0.94	1.23	A	I	76.03	0.80	0.81	1.19	A	E	47.25		
	HL-93 (OPERATING)	N/A		1.64	--	1.35	0.81	1.95	A	E	47.25	0.94	1.64	A	I	76.03	N/A	--	--	--	--	--		
	HS-20 (INVENTORY)	36.000	2	1.63	58.680	1.75	0.81	2.07	A	E	47.25	0.94	1.63	A	I	76.03	0.80	0.81	1.63	A	E	47.25		
	HS-20 (OPERATING)	36.000		2.16	77.760	1.35	0.81	2.68	A	E	47.25	0.94	2.16	A	I	76.03	N/A	--	--	--	--	--		
LEGAL LOAD RATING	SINGLE VEHICLE (SV)	SNSH	13.500		3.10	41.850	1.40	0.81	6.09	A	E	47.25	0.94	5.25	A	I	76.03	0.80	0.81	3.10	A	E	47.25	
		SNGARBS2	20.000		2.25	45.000	1.40	0.81	4.43	A	E	47.25	0.94	3.65	A	I	76.03	0.80	0.81	2.25	A	E	47.25	
		SNAGRIS2	22.000		2.11	46.420	1.40	0.81	4.15	A	E	47.25	0.94	3.37	A	I	76.03	0.80	0.81	2.11	A	E	47.25	
		SNCOTTS3	27.250		1.54	41.965	1.40	0.81	3.03	A	E	47.25	0.94	2.54	A	I	76.03	0.80	0.81	1.54	A	E	47.25	
		SNAGGRS4	34.925		1.26	44.006	1.40	0.81	2.49	A	E	47.25	0.94	2.06	A	I	76.03	0.80	0.81	1.26	A	E	47.25	
		SNS5A	35.550		1.24	44.020	1.40	0.81	2.44	A	E	47.25	0.94	2.08	A	I	76.03	0.80	0.81	1.24	A	E	47.25	
		SNS6A	39.950		1.13	45.144	1.40	0.81	2.22	A	E	47.25	0.94	1.87	A	I	76.03	0.80	0.81	1.13	A	E	47.25	
		SNS7B	42.000		1.07	44.940	1.40	0.81	2.11	A	E	47.25	0.94	1.83	A	I	76.03	0.80	0.81	1.07	A	E	47.25	
	TRUCK TRACTOR SEMI-TRAILER (TTST)	TNAGRIT3	33.000		1.37	45.210	1.40	0.81	2.70	A	E	47.25	0.94	2.26	A	I	76.03	0.80	0.81	1.37	A	E	47.25	
		TNT4A	33.075		1.37	45.313	1.40	0.81	2.71	A	E	47.25	0.94	2.21	A	I	76.03	0.80	0.81	1.37	A	E	47.25	
		TNT6A	41.600		1.12	46.592	1.40	0.81	2.20	A	E	47.25	0.94	1.94	A	I	76.03	0.80	0.81	1.12	A	E	47.25	
		TNT7A	42.000		1.12	47.040	1.40	0.81	2.20	A	E	47.25	0.94	1.90	A	I	76.03	0.80	0.81	1.12	A	E	47.25	
		TNT7B	42.000		1.14	47.880	1.40	0.81	2.25	A	E	47.25	0.94	1.79	A	I	76.03	0.80	0.81	1.14	A	E	47.25	
		TNAGRIT4	43.000		1.10	47.300	1.40	0.81	2.16	A	E	47.25	0.94	1.73	A	I	76.03	0.80	0.81	1.10	A	E	47.25	
TNAGT5A	45.000		1.04	46.800	1.40	0.81	2.04	A	E	47.25	0.94	1.71	A	I	76.03	0.80	0.81	1.04	A	E	47.25			
TNAGT5B	45.000		3	1.03	46.350	1.40	0.81	2.03	A	E	47.25	0.94	1.64	A	I	76.03	0.80	0.81	1.03	A	E	47.25		

NOTES:

MINIMUM RATING FACTORS ARE BASED ON THE STRENGTH I AND SERVICE III LIMIT STATES.

ALLOWABLE STRESSES FOR SERVICE III LIMIT STATE ARE AS REQUIRED FOR DESIGN.

COMMENTS:

- 1.
- 2.
- 3.
- 4.

CONTROLLING LOAD RATING

1 DESIGN LOAD RATING (HL-93)

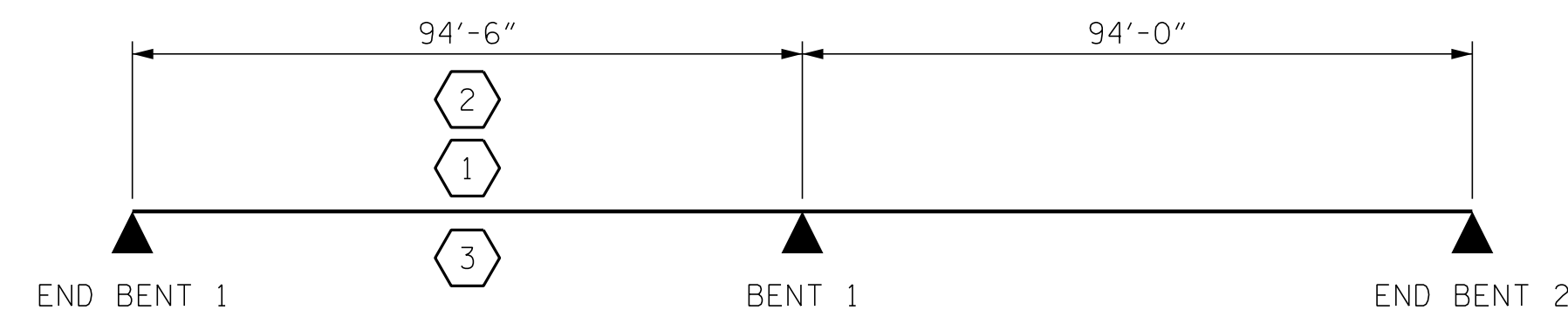
2 DESIGN LOAD RATING (HS-20)

3 LEGAL LOAD RATING **

** SEE CHART FOR VEHICLE TYPE

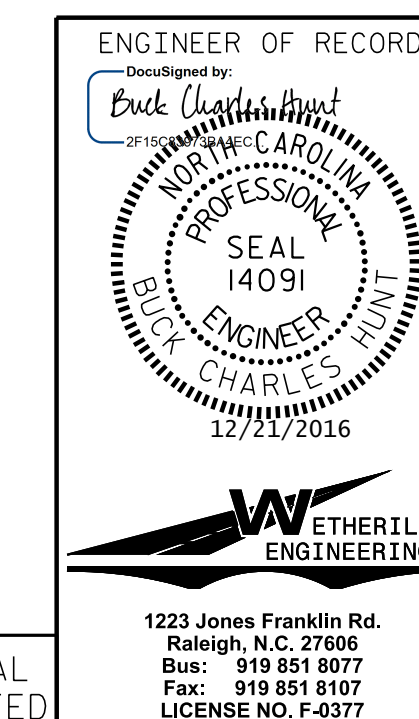
GIRDER LOCATION

I - INTERIOR GIRDER
 EL - EXTERIOR LEFT GIRDER
 ER - EXTERIOR RIGHT GIRDER



LRFR SUMMARY

PROJECT NO. R-5311A
HERTFORD COUNTY
 STATION: 50+99.00 -Y2-



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
STANDARD LRFR SUMMARY FOR PRESTRESSED CONCRETE GIRDERS (NON-INTERSTATE TRAFFIC)					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S02-4					TOTAL SHEETS 61

ASSEMBLED BY : B.C. HUNT	DATE : 2-29-16
CHECKED BY : G.M. GILLAND	DATE : 3-3-16
DRAWN BY : MAA 1/08	REV. 11/2/08RR MAA/GM
CHECKED BY : GM/DI 2/08	REV. 10/1/11 MAA/GM

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED