

LOAD FACTORS:

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

LOAD AND RESISTANCE FACTOR RATING (LRFD) SUMMARY FOR PRESTRESSED CONCRETE GIRDERS																								
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			
						LIVELOAD FACTORS	MOMENT					SHEAR					LIVELOAD FACTORS	MOMENT						
							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)		DISTRIBUTION FACTORS (DF)	RATING FACTOR	SPAN		GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	
DESIGN LOAD RATING	HL-93(Inv)	N/A	1	1.14	--	1.75	0.248	1.34	A	EL	26.923	0.655	1.21	A	EL	10.769	0.80	0.248	1.14	A	EL	26.923		
	HL-93(0pr)	N/A	--	1.56	--	1.35	0.248	1.74	A	EL	26.923	0.655	1.56	A	EL	10.769	N/A	--	--	--	--	--		
	HS-20(Inv)	36.000	2	1.42	51.296	1.75	0.248	1.68	A	EL	26.923	0.655	1.42	A	EL	10.769	0.80	0.248	1.43	A	EL	26.923		
	HS-20(0pr)	36.000	--	1.85	66.494	1.35	0.248	2.18	A	EL	26.923	0.655	1.85	A	EL	10.769	N/A	--	--	--	--	--		
LEGAL LOAD RATING	SV	SNSH	13.500	--	2.99	40.423	1.4	0.248	4.42	A	EL	26.923	0.655	3.96	A	EL	10.769	0.80	0.248	2.99	A	EL	26.923	
		SNGARBS2	20.000	--	2.33	46.506	1.4	0.248	3.43	A	EL	26.923	0.655	2.9	A	EL	10.769	0.80	0.248	2.33	A	EL	26.923	
		SNAGRIS2	22.000	--	2.24	49.365	1.4	0.248	3.31	A	EL	26.923	0.655	2.73	A	EL	10.769	0.80	0.248	2.24	A	EL	26.923	
		SNCOTTS3	27.250	--	1.49	40.675	1.4	0.248	2.2	A	EL	26.923	0.655	1.98	A	EL	10.769	0.80	0.248	1.49	A	EL	26.923	
		SNAGGRS4	34.925	--	1.28	44.808	1.4	0.248	1.89	A	EL	26.923	0.655	1.71	A	EL	10.769	0.80	0.248	1.28	A	EL	26.923	
		SNS5A	35.550	--	1.25	44.513	1.4	0.248	1.85	A	EL	26.923	0.655	1.76	A	EL	10.769	0.80	0.248	1.25	A	EL	26.923	
		SNS6A	39.950	--	1.16	46.513	1.4	0.248	1.72	A	EL	26.923	0.655	1.64	A	EL	10.769	0.80	0.248	1.16	A	EL	26.923	
	SNS7B	42.000	--	1.11	46.592	1.4	0.248	1.64	A	EL	26.923	0.655	1.64	A	EL	10.769	0.80	0.248	1.11	A	EL	26.923		
	TTST	TNAGRIT3	33.000	--	1.42	47.006	1.4	0.248	2.1	A	EL	26.923	0.655	1.92	A	EL	10.769	0.80	0.248	1.42	A	EL	26.923	
		TNT4A	33.075	--	1.44	47.464	1.4	0.248	2.12	A	EL	26.923	0.655	1.85	A	EL	10.769	0.80	0.248	1.44	A	EL	26.923	
		TNT6A	41.600	--	1.19	49.449	1.4	0.248	1.75	A	EL	26.923	0.655	1.81	A	EL	10.769	0.80	0.248	1.19	A	EL	26.923	
		TNT7A	42.000	--	1.2	50.525	1.4	0.248	1.78	A	EL	26.923	0.655	1.68	A	EL	10.769	0.80	0.248	1.20	A	EL	26.923	
		TNT7B	42.000	--	1.26	52.730	1.4	0.248	1.85	A	EL	26.923	0.655	1.58	A	EL	10.769	0.80	0.248	1.26	A	EL	26.923	
		TNAGRIT4	43.000	--	1.19	51.095	1.4	0.248	1.75	A	EL	26.923	0.655	1.52	A	EL	10.769	0.80	0.248	1.19	A	EL	26.923	
TNAGT5A		45.000	--	1.11	50.092	1.4	0.248	1.64	A	EL	26.923	0.655	1.55	A	EL	10.769	0.80	0.248	1.11	A	EL	26.923		
TNAGT5B	45.000	3	1.09	49.201	1.4	0.248	1.61	A	EL	26.923	0.655	1.44	A	EL	10.769	0.80	0.248	1.09	A	EL	26.923			

NOTES:

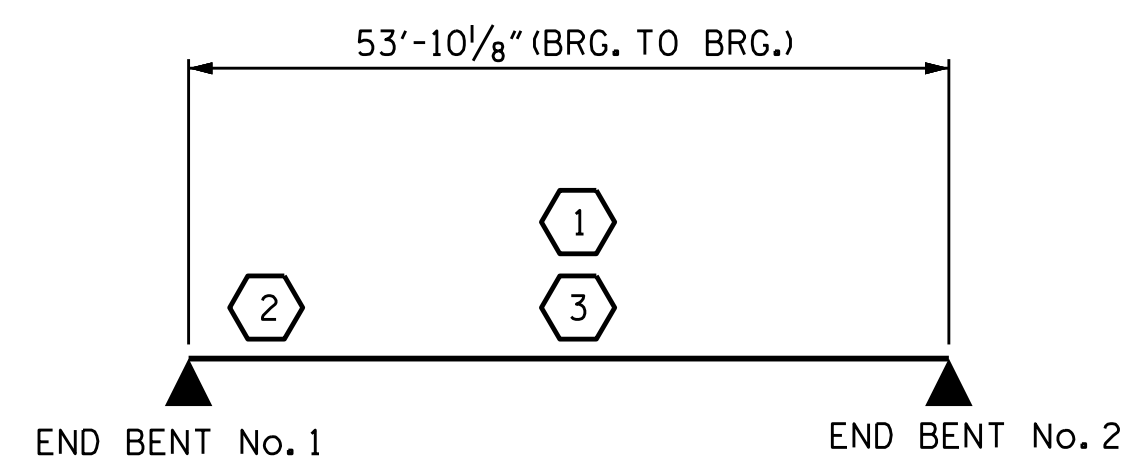
MINIMUM RATING FACTORS ARE BASED ON THE STRENGTH I AND SERVICE III LIMIT STATES.

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

COMMENTS:

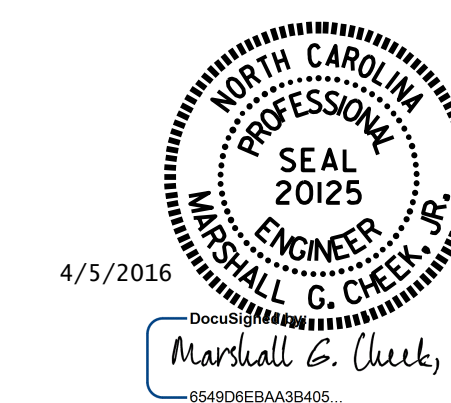
- 1.
- 2.
- 3.
- 4.

#	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. B-5410  
JACKSON COUNTY  
 STATION: 14+13.00 -L-



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 LRFR SUMMARY FOR  
 PRESTRESSED  
 CONCRETE GIRDERS  
 (NON-INTERSTATE TRAFFIC)

ASSEMBLED BY : M. POOLE      DATE : 01-16  
 CHECKED BY : M. G. CHEEK      DATE : 2-11-16

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			3			TOTAL SHEETS
2			4			17

STD. NO. LRFR1