

LOAD FACTORS:

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

LOAD AND RESISTANCE FACTOR RATING (LRFR) 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						
						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		--	1.75											0.80										
	HL-93 (OPERATING)	N/A			--	1.35											N/A	--	--	--	--	--					
	HS-20 (INVENTORY)	36.000	②			1.75											0.80										
	HS-20 (OPERATING)	36.000				1.35											N/A	--	--	--	--	--					
LEGAL LOAD RATING	SINGLE VEHICLE (SV)	SH	12.500			1.40											0.80										
		S3C	21.500			1.40												0.80									
		S3A	22.750			1.40												0.80									
		S4A	26.750			1.40												0.80									
		S5A	30.500			1.40												0.80									
		S6A	34.500			1.40												0.80									
		S7B	38.500			1.40												0.80									
		S7A	40.000			1.40												0.80									
	TRUCK TRACTOR SEMI-TRAILER (TTST)	T4A	28.250				1.40											0.80									
		T5B	32.000				1.40											0.80									
		T6A	36.000				1.40											0.80									
		T7A	40.000				1.40											0.80									
		T7B	40.000				1.40											0.80									

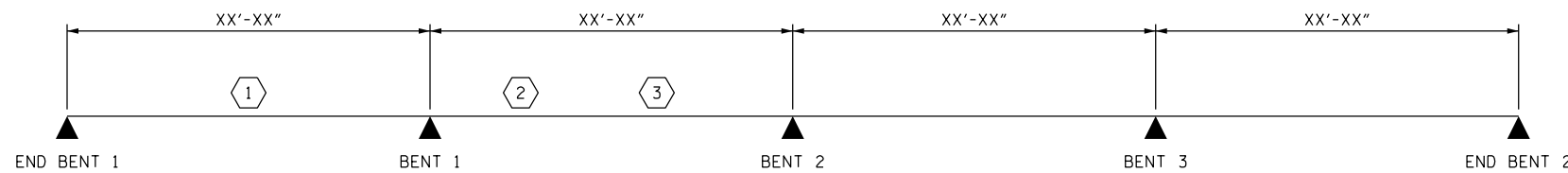
NOTES:

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:

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#	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	



PROJECT NO. _____
_____ COUNTY
STATION: _____

LRFR SUMMARY

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

ASSEMBLED BY : _____ DATE : _____
CHECKED BY : _____ DATE : _____
DRAWN BY : MAA 1/08 REV. 11/12/08RR MAA/GM
CHECKED BY : GM/DI 2/08 REV. 10/11/11 MAA/GM

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED