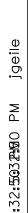
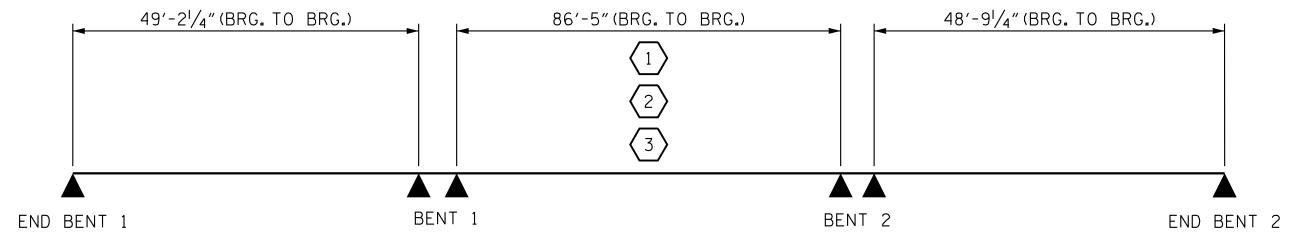
								STRENGTH I LIMIT STATE								SERVICE III LIMIT STATE									
								MOMENT				SHEAR				MOMENT									
LEVEL		VEHICLE	WEIGHT (W) (TONS)	CONTROLLING LOAD RATING	MINIMUM RATING FACTOR (RF)	RATING FACTOR (RF) TONS = W X RF		LIVE LOAD FACTORS (YLL)	DISTRIBUTION FACTOR (DF)	RATING FACTOR	SPAN	GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	DISTRIBUTION FACTOR (DF)	RATING FACTOR	SPAN	GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	LIVE LOAD FACTORS (yul)	DISTRIBUTION FACTOR (DF)	RATING FACTOR	SPAN	GIRDER LOCATION	DISTANCE FROM LEFT END OF SPAN (ft)	COMMENT NUMBER
		HL-93 (INVENTORY)	N/A		1.03		1.75	.841	1.25	1	Ι	24.6	.972	1.08	3	Ι	24.4	0.80	.841	1.03	2	Ι	43.2		
DESIGN LOAD RATING		HL-93 (OPERATING)	N/A		1.23		1.35	.841	1.62	1	Ι	24.6	.972	1.23	1	Ι	44.8	N/A	-	-	-	-	-		
		HS-20 (INVENTORY)	36.000	2	1.36	49.0	1.75	.841	1.57	1	Ι	24.6	.972	1.41	3	Ι	24.4	0.80	.841	1.36	2	Ι	43.2		
		HS-20 (OPERATING)	36.000		1.69	60.8	1.35	.841	2.04	1	Ι	24.6	.972	1.69	1	Ι	49.2	N/A	-	-	-	-	-		
	TRUCK TRACTOR SINGLE VEHICLE SEMI-TRAILER (SV) (TTST)	SH	12.500		1.77	22.1	1.40	.841	2.42	1	Ι	24.6	.972	2.30	1	Ι	49.2	0.80	.841	1.77	1	Ι	24.6		
		S3C	21.500		1.86	40.0	1.40	.841	2.55	1	Ι	24.6	.972	2.43	1	Ι	49.2	0.80	.841	1.86	1	Ι	24.6		
		S3A	22.750		1.62	36.9	1.40	.841	2.21	1	Ι	24.6	.972	2.02	1	Ι	49.2	0.80	.841	1.62	1	Ι	24.6		
		S4A	26.750	3	1.20	32.1	1.40	.841	1.65	1	Ι	24.6	.972	1.65	1	Ι	49.2	0.80	.841	1.20	2	Ι	43.2		
		S5A	30.500		1.31	40.0	1.40	.841	1.83	1	Ι	24.6	.972	1.77	1	Ι	49.2	0.80	.841	1.31	2	Ι	43.2		
LEGAL		S6A	34.500	3	1.20	41.4	1.40	.841	1.72	1	Ι	24.6	.972	1.87	2	Ι	69.5	0.80	.841	1.20	2	Ι	43.2		
LOAD		S7B	38.500		1.21	46.6	1.40	.841	1.69	1	Ι	24.6	.972	1.80	2	Ι	16.9	0.80	.841	1.21	2	Ι	43.2		
RATING		S7A	40.000		2.20	88.0	1.40	.841	4.36	1	Ι	24.6	.972	4.15	1	Ι	49.2	0.80	.785	2.20	3	EL	0.0		
		T4A	28.250		1.62	45.8	1.40	.841	2.27	1	Ι	24.6	.972	1.98	1	Ι	49.2	0.80	.841	1.62	2	Ι	43.2		
		T5B	32.000		1.43	45.8	1.40	.841	1.99	1	Ι	24.6	.972	1.88	1	Ι	49.2	0.80	.841	1.43	2	Ι	43.2		
		T6A	36.000		1.32	47.5	1.40	.841	1.88	1	Ι	24.6	.972	1.86	3	Ι	0.0	0.80	.841	1.32	2	Ι	43.2		
		T7A	40.000		1.24	49.6	1.40	.841	1.81	1	Ι	24.6	.972	1.87	2	Ι	16.9	0.80	.841	1.24	2	Ι	43.2		
		Т7В	40.000		1.34	53.6	1.40	.841	2.00	1	Ι	24.6	.972	1.71	3	Ι	0.0	0.80	.841	1.34	2	Ι	43.2		



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LOAD RATING ANALYSIS PERFORMED AS A CONTINUOUS FOR LIVE LOAD STRUCTURE.

uctures\Drawing\	<b>Stantec</b>	Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672		
U:\Str		AIUTO DATE : 01/25/17   FRAGA DATE : 05/04/17	DESIGN ENGINEER OF RECORD:	DATE : <u>01/16/18</u>

## LRFR SUMMARY

## LOAD FACTORS:

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

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.

(#) CONTROLLING LOAD RATING
1 DESIGN LOAD RATING (HL-93)
2 DESIGN LOAD RATING (HS-20)
<pre>3 LEGAL LOAD RATING **</pre>
* * SEE CHART FOR VEHICLE TYPE
GIRDER LOCATION
I – INTERIOR GIRDER EL – EXTERIOR LEFT GIRDER ER – EXTERIOR RIGHT GIRDER

	PROJEC	CT NO.	<u> </u>	525C						
		GUIL	FORD	CO	UNTY					
	STATION: <u>337+20.09</u> -L-									
	SHEET 4 C	)F 4								
	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH									
	STANDARD									
OFESSION	LR				OR					
Towary Dudist 462	СС		STRES ITE G		RS					
AS R DUDINI	(INTERSTATE TRAFFIC) (LL)									
1/16/2018			SIONS		SHEET NO.					
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL	NO. ВҮ:	DATE:	NO. BY:	DATE:	S4-4 TOTAL SHEETS					
SIGNATURES COMPLETED	<b>2</b>		4		39					