

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6" Ø LOW RELAXATION	SPAN A																				
	GIRDER 1 (EXTERIOR)																				
	FOURTIETH POINTS	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.031	0.061	0.091	0.121	0.149	0.177	0.204	0.227	0.252	0.274	0.294	0.313	0.329	0.344	0.356	0.366	0.375	0.380	0.384	0.385
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.024	0.047	0.070	0.092	0.114	0.136	0.156	0.174	0.193	0.210	0.225	0.239	0.252	0.263	0.273	0.280	0.287	0.291	0.294	0.295
FINAL CAMBER ↑	0"	1/16"	3/16"	1/4"	5/16"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1"	1"	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1 1/16"
GIRDER 1 (EXTERIOR)																					
FOURTIETH POINTS	0.525	0.55	0.575	0.6	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	1	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.384	0.380	0.375	0.366	0.356	0.344	0.329	0.313	0.294	0.274	0.252	0.227	0.204	0.177	0.149	0.121	0.091	0.061	0.031	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.294	0.291	0.287	0.280	0.273	0.263	0.252	0.239	0.225	0.210	0.193	0.174	0.156	0.136	0.114	0.092	0.070	0.047	0.024	0.000	
FINAL CAMBER ↑	1 1/16"	1 1/16"	1 1/16"	1 1/16"	1"	1"	15/16"	7/8"	13/16"	3/4"	11/16"	5/8"	9/16"	1/2"	7/16"	5/16"	1/4"	3/16"	1/16"	0"	
GIRDER 2 (INTERIOR)																					
FOURTIETH POINTS	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475	0.5
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.030	0.060	0.090	0.119	0.147	0.174	0.200	0.224	0.248	0.270	0.290	0.308	0.324	0.339	0.351	0.361	0.369	0.374	0.378	0.379
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.023	0.045	0.067	0.089	0.110	0.130	0.149	0.167	0.185	0.201	0.216	0.230	0.242	0.253	0.262	0.269	0.275	0.279	0.282	0.283
FINAL CAMBER ↑	0"	1/16"	3/16"	1/4"	3/8"	7/16"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1"	1 1/16"	1 1/16"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
GIRDER 2 (INTERIOR)																					
FOURTIETH POINTS	0.525	0.55	0.575	0.6	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	1	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.378	0.374	0.369	0.361	0.351	0.339	0.324	0.308	0.290	0.270	0.248	0.224	0.200	0.174	0.147	0.119	0.090	0.060	0.030	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.282	0.279	0.275	0.269	0.262	0.253	0.242	0.230	0.216	0.201	0.185	0.167	0.149	0.130	0.110	0.089	0.067	0.045	0.023	0.000	
FINAL CAMBER ↑	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/16"	1 1/16"	1"	15/16"	7/8"	13/16"	3/4"	11/16"	5/8"	9/16"	7/16"	3/8"	1/4"	3/16"	1/16"	0"	
GIRDER 3 (INTERIOR)																					
FOURTIETH POINTS	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475	0.5
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.030	0.059	0.087	0.116	0.143	0.170	0.195	0.218	0.242	0.263	0.282	0.300	0.316	0.330	0.342	0.351	0.359	0.365	0.368	0.369
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.019	0.038	0.057	0.076	0.094	0.111	0.128	0.143	0.158	0.172	0.185	0.196	0.207	0.216	0.224	0.230	0.235	0.239	0.241	0.242
FINAL CAMBER ↑	0"	1/8"	1/4"	3/8"	1/2"	5/8"	11/16"	13/16"	7/8"	1"	1 1/16"	1 3/16"	1 1/4"	1 5/16"	1 3/8"	1 7/16"	1 7/16"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
GIRDER 3 (INTERIOR)																					
FOURTIETH POINTS	0.525	0.55	0.575	0.6	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	1	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.368	0.365	0.359	0.351	0.342	0.330	0.316	0.300	0.282	0.263	0.242	0.218	0.195	0.170	0.143	0.116	0.087	0.059	0.030	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.241	0.239	0.235	0.230	0.224	0.216	0.207	0.196	0.185	0.172	0.158	0.143	0.128	0.111	0.094	0.076	0.057	0.038	0.019	0.000	
FINAL CAMBER ↑	1 1/2"	1 1/2"	1 1/2"	1 7/16"	1 7/16"	1 3/8"	1 5/16"	1 1/4"	1 3/16"	1 1/16"	1"	7/8"	13/16"	11/16"	5/8"	1/2"	3/8"	1/4"	1/8"	0"	
GIRDER 4 (EXTERIOR)																					
FOURTIETH POINTS	0	0.025	0.05	0.075	0.1	0.125	0.15	0.175	0.2	0.225	0.25	0.275	0.3	0.325	0.35	0.375	0.4	0.425	0.45	0.475	0.5
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.029	0.057	0.084	0.112	0.138	0.164	0.188	0.210	0.233	0.254	0.273	0.290	0.305	0.319	0.330	0.339	0.347	0.352	0.355	0.356
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.015	0.030	0.045	0.059	0.073	0.087	0.100	0.111	0.123	0.134	0.144	0.153	0.161	0.168	0.174	0.179	0.183	0.186	0.188	0.188
FINAL CAMBER ↑	0"	3/16"	5/16"	1/2"	5/8"	13/16"	15/16"	1 1/16"	1 3/16"	1 5/16"	1 7/16"	1 9/16"	1 5/8"	1 3/4"	1 13/16"	1 7/8"	1 15/16"	1 15/16"	2"	2"	2"
GIRDER 4 (EXTERIOR)																					
FOURTIETH POINTS	0.525	0.55	0.575	0.6	0.625	0.65	0.675	0.7	0.725	0.75	0.775	0.8	0.825	0.85	0.875	0.9	0.925	0.95	0.975	1	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.355	0.352	0.347	0.339	0.330	0.319	0.305	0.290	0.273	0.254	0.233	0.210	0.188	0.164	0.138	0.112	0.084	0.057	0.029	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.188	0.186	0.183	0.179	0.174	0.168	0.161	0.153	0.144	0.134	0.123	0.111	0.100	0.087	0.073	0.059	0.045	0.030	0.015	0.000	
FINAL CAMBER ↑	2"	2"	1 15/16"	1 15/16"	1 7/8"	1 13/16"	1 3/4"	1 5/8"	1 9/16"	1 7/16"	1 5/16"	1 3/16"	1 1/16"	15/16"	13/16"	5/8"	1/2"	5/16"	3/16"	0"	

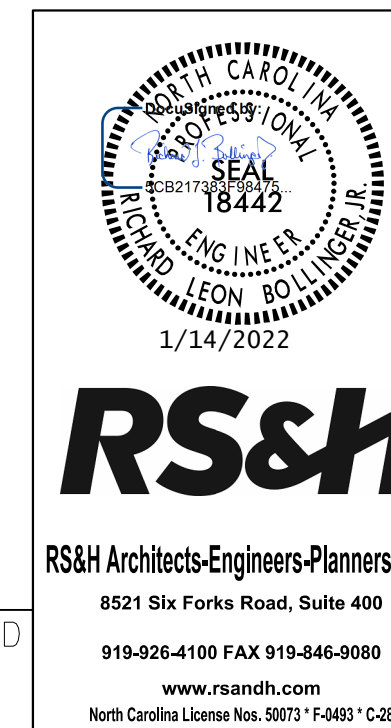
* INCLUDES FUTURE WEARING SURFACE IN SUPERIMPOSED DEAD LOAD.
ALL VALUES ARE SHOWN IN FEEL (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. U-5798A
CUMBERLAND COUNTY
STATION: 76+80.00 -L-

SHEET 1 OF 2

DRAWN BY : MRA DATE : 04/2020
CHECKED BY : MKO DATE : 04/2021
DESIGN ENGINEER OF RECORD: RLB DATE : 09/2021

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SUPERSTRUCTURE DEAD LOAD DEFLECTIONS LEFT LANE						REVISIONS			SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-16		TOTAL SHEETS		
1			3			43				
2			4							