

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6" DIA. LOW-RELAXATION STRANDS	SPAN A																				
	GIRDERS 1 & 4																				
FOURTIETH POINTS	BRG	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.015	0.030	0.044	0.058	0.072	0.086	0.098	0.110	0.122	0.133	0.142	0.151	0.159	0.166	0.172	0.177	0.181	0.184	0.186	0.186
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.011	0.021	0.032	0.043	0.052	0.062	0.071	0.080	0.088	0.096	0.103	0.110	0.115	0.120	0.124	0.128	0.131	0.133	0.134	0.134
FINAL CAMBER ↑	0	1/16"	1/8"	1/8"	3/16"	1/4"	5/16"	5/16"	3/8"	7/16"	7/16"	1/2"	1/2"	9/16"	9/16"	9/16"	9/16"	5/8"	5/8"	5/8"	5/8"

0.6" DIA. LOW-RELAXATION STRANDS	SPAN A																				
	GIRDERS 1 & 4																				
FOURTIETH POINTS	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	BRG
CAMBER (GIRDER ALONE IN PLACE) ↑	0.186	0.186	0.184	0.181	0.177	0.172	0.166	0.159	0.151	0.142	0.133	0.122	0.111	0.098	0.086	0.072	0.058	0.044	0.030	0.015	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.134	0.134	0.133	0.130	0.128	0.124	0.120	0.115	0.108	0.103	0.096	0.088	0.078	0.071	0.062	0.052	0.040	0.032	0.021	0.011	0.000
FINAL CAMBER ↑	5/8"	5/8"	5/8"	5/8"	5/8"	9/16"	9/16"	9/16"	1/2"	1/2"	7/16"	7/16"	3/8"	5/16"	5/16"	1/4"	3/16"	1/8"	1/8"	1/16"	0

0.6" DIA. LOW-RELAXATION STRANDS	SPAN A																				
	GIRDERS 2 & 3																				
FOURTIETH POINTS	BRG	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.015	0.030	0.044	0.058	0.072	0.086	0.098	0.110	0.122	0.133	0.142	0.151	0.159	0.166	0.172	0.177	0.181	0.184	0.186	0.186
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.011	0.022	0.032	0.043	0.053	0.063	0.072	0.081	0.089	0.097	0.104	0.111	0.116	0.122	0.126	0.130	0.132	0.134	0.136	0.136
FINAL CAMBER ↑	0	1/16"	1/8"	1/8"	3/16"	1/4"	1/4"	5/16"	3/8"	3/8"	7/16"	7/16"	1/2"	1/2"	9/16"	9/16"	9/16"	9/16"	5/8"	5/8"	5/8"

0.6" DIA. LOW-RELAXATION STRANDS	SPAN A																				
	GIRDERS 2 & 3																				
FOURTIETH POINTS	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	BRG
CAMBER (GIRDER ALONE IN PLACE) ↑	0.186	0.186	0.184	0.181	0.177	0.172	0.166	0.159	0.151	0.142	0.133	0.122	0.111	0.098	0.086	0.072	0.058	0.044	0.030	0.015	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.136	0.136	0.134	0.132	0.129	0.126	0.122	0.116	0.110	0.104	0.097	0.089	0.079	0.072	0.063	0.053	0.041	0.032	0.022	0.011	0.000
FINAL CAMBER ↑	5/8"	5/8"	5/8"	9/16"	9/16"	9/16"	9/16"	1/2"	1/2"	7/16"	7/16"	3/8"	3/8"	5/16"	1/4"	1/4"	3/16"	1/8"	1/8"	1/16"	0

0.6" DIA. LOW-RELAXATION STRANDS	SPANS B-D																				
	GIRDERS 1 & 4																				
FOURTIETH POINTS	BRG	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.021	0.041	0.062	0.082	0.101	0.120	0.137	0.153	0.170	0.185	0.199	0.211	0.222	0.232	0.241	0.247	0.253	0.257	0.259	0.260
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.015	0.030	0.044	0.056	0.072	0.086	0.098	0.109	0.122	0.133	0.142	0.151	0.159	0.166	0.172	0.177	0.181	0.184	0.186	0.186
FINAL CAMBER ↑	0	1/16"	1/8"	3/16"	5/16"	5/16"	7/16"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	3/4"	13/16"	13/16"	13/16"	7/8"	7/8"	7/8"	7/8"

0.6" DIA. LOW-RELAXATION STRANDS	SPANS B-D																				
	GIRDERS 1 & 4																				
FOURTIETH POINTS	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	BRG
CAMBER (GIRDER ALONE IN PLACE) ↑	0.260	0.259	0.257	0.252	0.247	0.241	0.232	0.222	0.211	0.199	0.185	0.170	0.154	0.137	0.120	0.101	0.082	0.062	0.041	0.021	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.186	0.186	0.184	0.181	0.177	0.172	0.166	0.159	0.151	0.142	0.133	0.122	0.109	0.098	0.086	0.072	0.056	0.044	0.030	0.015	0.000
FINAL CAMBER ↑	7/8"	7/8"	7/8"	7/8"	13/16"	13/16"	13/16"	3/4"	3/4"	11/16"	5/8"	9/16"	9/16"	7/16"	7/16"	5/16"	5/16"	3/16"	1/8"	1/16"	0

0.6" DIA. LOW-RELAXATION STRANDS	SPANS B-D																				
	GIRDERS 2 & 3																				
FOURTIETH POINTS	BRG	0.025	0.050	0.075	0.100	0.125	0.150	0.175	0.200	0.225	0.250	0.275	0.300	0.325	0.350	0.375	0.400	0.425	0.450	0.475	0.500
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.021	0.041	0.062	0.082	0.101	0.120	0.137	0.153	0.170	0.185	0.199	0.211	0.222	0.232	0.241	0.247	0.253	0.257	0.259	0.260
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.015	0.030	0.045	0.057	0.073	0.087	0.100	0.110	0.123	0.134	0.144	0.152	0.161	0.168	0.174	0.179	0.183	0.186	0.188	0.188
FINAL CAMBER ↑	0	1/16"	1/8"	3/16"	5/16"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	11/16"	3/4"	3/4"	13/16"	13/16"	13/16"	7/8"	7/8"	7/8"

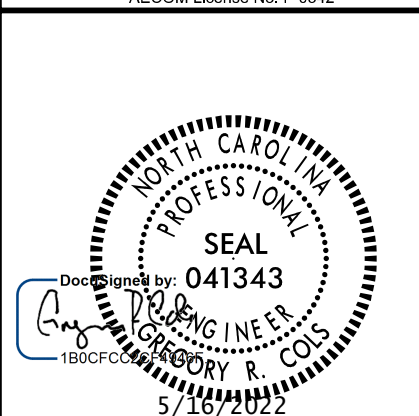
0.6" DIA. LOW-RELAXATION STRANDS	SPANS B-D																				
	GIRDERS 2 & 3																				
FOURTIETH POINTS	0.500	0.525	0.550	0.575	0.600	0.625	0.650	0.675	0.700	0.725	0.750	0.775	0.800	0.825	0.850	0.875	0.900	0.925	0.950	0.975	BRG
CAMBER (GIRDER ALONE IN PLACE) ↑	0.260	0.259	0.257	0.252	0.247	0.241	0.232	0.222	0.211	0.199	0.185	0.170	0.154	0.137	0.120	0.101	0.082	0.062	0.041	0.021	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.188	0.188	0.186	0.183	0.179	0.174	0.168	0.161	0.152	0.144	0.134	0.123	0.110	0.100	0.087	0.073	0.057	0.045	0.030	0.015	0.000
FINAL CAMBER ↑	7/8"	7/8"	7/8"	13/16"	13/16"	13/16"	3/4"	3/4"	11/16"	11/16"	5/8"	9/16"	1/2"	7/16"	3/8"	5/16"	5/16"	3/16"	1/8"	1/16"	0

* INCLUDES FUTURE WEARING SURFACE IN SUPERIMPOSED DEAD LOAD.

ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS SHOWN IN INCHES (FRACTION FORM).

PROJECT NO. BR-0044
ROCKINGHAM COUNTY
STATION: 21+97.00 -L-

SHEET 4 OF 6



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE

PRESTRESSED CONCRETE GIRDER
DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-17
1			3			TOTAL SHEETS
2			4			39

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DATE: 3/29/2022
TIME: 2:28:17 PM

USER: Bin.Tam.C.Hogack
DIR: R:\Structures\04 Drawings\01_0033_BR0044_SML_G04.dgn

DRAWN BY : D.R. DRUM	DATE : 02/2022
CHECKED BY : G.R. COLS	DATE : 02/2022
DESIGNED BY : D.R. DRUM	DATE : 02/2022
DESIGN CHECKED BY : G.R. COLS	DATE : 02/2022