

DEAD LOAD DEFLECTION TABLE FOR GIRDERS - SPAN B

0.6" Ø LOW RELAXATION		GIRDERS 2, 3 & 14																					
FORTIETH POINTS		0	.025	.05	.075	.1	.125	.15	.175	.2	.225	.25	.275	.3	.325	.35	.375	.4	.425	.45	.475	.50	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.0	0.021	0.042	0.063	0.084	0.104	0.123	0.141	0.158	0.175	0.190	0.204	0.217	0.229	0.239	0.247	0.254	0.260	0.264	0.266	0.267	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.0	0.014	0.028	0.042	0.056	0.069	0.082	0.095	0.109	0.119	0.129	0.140	0.150	0.157	0.163	0.170	0.177	0.179	0.181	0.183	0.186	
FINAL CAMBER ↑		0.0	1/16"	3/16"	1/4"	5/16"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	3/4"	13/16"	7/8"	15/16"	15/16"	15/16"	15/16"	1"	1"	1"	1"
0.6" Ø LOW RELAXATION		GIRDERS 2, 3 & 14																					
FORTIETH POINTS		.50	.525	.55	.575	.6	.625	.65	.675	.7	.725	.75	.775	.8	.825	.85	.875	.9	.925	.95	.975	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.267	0.266	0.264	0.260	0.254	0.247	0.239	0.229	0.217	0.204	0.190	0.175	0.158	0.141	0.123	0.104	0.084	0.063	0.042	0.021	0.0	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.186	0.183	0.181	0.179	0.177	0.170	0.163	0.157	0.150	0.140	0.129	0.119	0.109	0.095	0.082	0.069	0.056	0.042	0.028	0.014	0.0	
FINAL CAMBER ↑		1"	1"	1"	1"	15/16"	15/16"	15/16"	7/8"	13/16"	3/4"	3/4"	11/16"	5/8"	9/16"	1/2"	7/16"	5/16"	1/4"	3/16"	1/16"	0.0	
0.6" Ø LOW RELAXATION		GIRDERS 1, 4-6, 13 & 15																					
FORTIETH POINTS		0	.025	.05	.075	.1	.125	.15	.175	.2	.225	.25	.275	.3	.325	.35	.375	.4	.425	.45	.475	.50	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.0	0.021	0.042	0.063	0.084	0.104	0.123	0.141	0.158	0.175	0.190	0.204	0.217	0.229	0.239	0.247	0.254	0.260	0.264	0.266	0.267	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.0	0.013	0.026	0.039	0.052	0.065	0.077	0.090	0.102	0.112	0.122	0.132	0.142	0.148	0.154	0.160	0.167	0.169	0.171	0.173	0.175	
FINAL CAMBER ↑		0.0	1/8"	3/16"	5/16"	3/8"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	7/8"	1"	1"	11/16"	11/16"	11/8"	11/8"	11/8"	11/8"	
0.6" Ø LOW RELAXATION		GIRDERS 1, 4-6, 13 & 15																					
FORTIETH POINTS		.50	.525	.55	.575	.6	.625	.65	.675	.7	.725	.75	.775	.8	.825	.85	.875	.9	.925	.95	.975	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.267	0.266	0.264	0.260	0.254	0.247	0.239	0.229	0.217	0.204	0.190	0.175	0.158	0.141	0.123	0.104	0.084	0.063	0.042	0.021	0.0	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.175	0.173	0.171	0.169	0.167	0.160	0.154	0.148	0.142	0.132	0.122	0.112	0.102	0.090	0.077	0.065	0.052	0.039	0.026	0.013	0.0	
FINAL CAMBER ↑		1/8"	1/8"	1/8"	1/8"	1/16"	1/16"	1"	1"	7/8"	7/8"	13/16"	3/4"	11/16"	5/8"	9/16"	1/2"	3/8"	5/16"	3/16"	1/8"	0.0	
0.6" Ø LOW RELAXATION		GIRDERS 9 & 10																					
FORTIETH POINTS		0	.025	.05	.075	.1	.125	.15	.175	.2	.225	.25	.275	.3	.325	.35	.375	.4	.425	.45	.475	.50	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.0	0.021	0.042	0.063	0.084	0.104	0.123	0.141	0.158	0.175	0.190	0.204	0.217	0.229	0.239	0.247	0.254	0.260	0.264	0.266	0.267	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.0	0.013	0.025	0.038	0.050	0.062	0.074	0.086	0.098	0.108	0.117	0.126	0.136	0.142	0.148	0.154	0.160	0.162	0.164	0.166	0.168	
FINAL CAMBER ↑		0.0	1/8"	3/16"	5/16"	3/8"	1/2"	9/16"	11/16"	3/4"	13/16"	7/8"	15/16"	1"	11/16"	11/8"	11/8"	11/8"	13/16"	13/16"	13/16"	13/16"	
0.6" Ø LOW RELAXATION		GIRDERS 9 & 10																					
FORTIETH POINTS		.50	.525	.55	.575	.6	.625	.65	.675	.7	.725	.75	.775	.8	.825	.85	.875	.9	.925	.95	.975	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.267	0.266	0.264	0.260	0.254	0.247	0.239	0.229	0.217	0.204	0.190	0.175	0.158	0.141	0.123	0.104	0.084	0.063	0.042	0.021	0.0	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.168	0.166	0.164	0.162	0.160	0.154	0.148	0.142	0.136	0.126	0.117	0.108	0.098	0.086	0.074	0.062	0.050	0.038	0.025	0.013	0.0	
FINAL CAMBER ↑		13/16"	13/16"	13/16"	13/16"	11/8"	11/8"	11/8"	11/16"	1"	15/16"	7/8"	13/16"	3/4"	11/16"	9/16"	1/2"	3/8"	5/16"	3/16"	1/8"	0.0	
0.6" Ø LOW RELAXATION		GIRDERS 7 & 8																					
FORTIETH POINTS		0	.025	.05	.075	.1	.125	.15	.175	.2	.225	.25	.275	.3	.325	.35	.375	.4	.425	.45	.475	.50	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.0	0.021	0.042	0.063	0.084	0.104	0.123	0.141	0.158	0.175	0.190	0.204	0.217	0.229	0.239	0.247	0.254	0.260	0.264	0.266	0.267	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.0	0.012	0.023	0.035	0.047	0.058	0.069	0.080	0.092	0.100	0.109	0.118	0.127	0.132	0.138	0.143	0.149	0.151	0.153	0.155	0.157	
FINAL CAMBER ↑		0.0	1/8"	1/4"	3/16"	7/16"	9/16"	5/8"	3/4"	13/16"	7/8"	1"	11/16"	11/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	
0.6" Ø LOW RELAXATION		GIRDERS 7 & 8																					
FORTIETH POINTS		.50	.525	.55	.575	.6	.625	.65	.675	.7	.725	.75	.775	.8	.825	.85	.875	.9	.925	.95	.975	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.267	0.266	0.264	0.260	0.254	0.247	0.239	0.229	0.217	0.204	0.190	0.175	0.158	0.141	0.123	0.104	0.084	0.063	0.042	0.021	0.0	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.157	0.155	0.153	0.151	0.149	0.143	0.138	0.132	0.127	0.118	0.109	0.100	0.092	0.080	0.069	0.058	0.047	0.035	0.023	0.012	0.0	
FINAL CAMBER ↑		13/16"	13/16"	13/16"	13/16"	11/4"	11/4"	13/16"	13/16"	11/16"	11/16"	1"	7/8"	13/16"	3/4"	5/8"	9/16"	7/16"	5/16"	1/4"	1/8"	0.0	
0.6" Ø LOW RELAXATION		GIRDERS 11 & 12																					
FORTIETH POINTS		0	.025	.05	.075	.1	.125	.15	.175	.2	.225	.25	.275	.3	.325	.35	.375	.4	.425	.45	.475	.50	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.0	0.021	0.042	0.063	0.084	0.104	0.123	0.141	0.158	0.175	0.190	0.204	0.217	0.229	0.239	0.247	0.254	0.260	0.264	0.266	0.267	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.0	0.010	0.020	0.030	0.040	0.049	0.059	0.070	0.078	0.085	0.092	0.100	0.107	0.112	0.117	0.121	0.126	0.128	0.129	0.131	0.133	
FINAL CAMBER ↑		0.0	1/8"	1/4"	3/8"	9/16"	11/16"	3/4"	7/8"	1"	11/16"	13/16"	11/4"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	
0.6" Ø LOW RELAXATION		GIRDERS 11 & 12																					
FORTIETH POINTS		.50	.525	.55	.575	.6	.625	.65	.675	.7	.725	.75	.775	.8	.825	.85	.875	.9	.925	.95	.975	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑		0.267	0.266	0.264	0.260	0.254	0.247	0.239	0.229	0.217	0.204	0.190	0.175	0.158	0.141	0.123	0.104	0.084	0.063	0.042	0.021	0.0	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓		0.133	0.131	0.129	0.128	0.126	0.121	0.117	0.112	0.107	0.100	0.092	0.085	0.078	0.070	0.059	0.049	0.040	0.030	0.020	0.010	0.0	
FINAL CAMBER ↑		13/16"	13/16"	13/16"	13/16"	13/16"	11/2"	13/16"	13/16"	13/16"	11/4"	13/16"	11/16"	1"	7/8"	3/4"	11/16"	9/16"	3/8"	1/4"	1/8"	0.0	

* INCLUDES FUTURE WEARING SURFACE.

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

PLANS PREPARED BY:



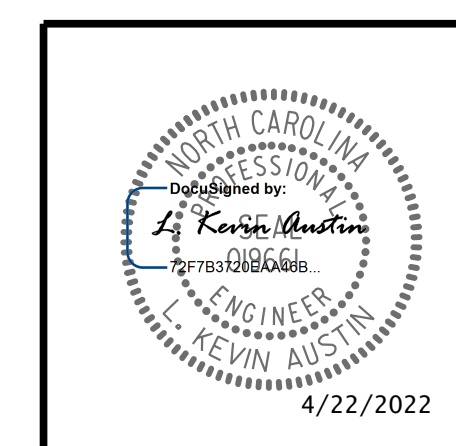
PROJECT NO. I-5987B
ROBESON COUNTY
STATION: 617+12.20 -L- POT

SHEET 5 OF 6

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
PRESTRESSED CONCRETE GIRDER
DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	56-24
1			3			TOTAL SHEETS
2			4			53

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



4/20/2022 11:45 AM G:\Project\1208\20957\03\CLIENT\Structures\I-5987B\15 - NC 2016\987B_SML 05_170193.dgn

DRAWN BY : W.B. ALLEN DATE : 12/21
CHECKED BY : M.D. METZGER DATE : 12/21
DESIGN ENGINEER OF RECORD: L. K. AUSTIN DATE : 01/22