

DEAD LOAD DEFLECTION TABLE FOR GIRDERS OF SPAN B												
0.6" ø LOW RELAXATION												
GIRDER 1												
20TH POINTS	0.000	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
CAMBER (GIRDER IN PLACE) ↑	0.000	0.020	0.039	0.053	0.066	0.075	0.084	0.088	0.093	0.095	0.096	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.007	0.014	0.021	0.028	0.034	0.039	0.043	0.046	0.047	0.049	
FINAL CAMBER ↑	0"	3/16"	5/16"	7/16"	1/2"	1/2"	9/16"	9/16"	5/8"	5/8"	5/8"	
20TH POINTS		0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	
CAMBER (GIRDER IN PLACE) ↑		0.095	0.093	0.088	0.084	0.075	0.066	0.053	0.039	0.020	0.000	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓		0.047	0.046	0.043	0.039	0.034	0.028	0.021	0.014	0.007	0.000	
FINAL CAMBER ↑		5/8"	5/8"	9/16"	9/16"	1/2"	7/16"	5/16"	3/16"	0"		
0.6" ø LOW RELAXATION												
GIRDER 2												
20TH POINTS	0.000	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
CAMBER (GIRDER IN PLACE) ↑	0.000	0.020	0.039	0.053	0.066	0.075	0.084	0.088	0.093	0.095	0.096	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.007	0.014	0.020	0.027	0.032	0.037	0.041	0.044	0.045	0.046	
FINAL CAMBER ↑	0"	3/16"	5/16"	7/16"	1/2"	9/16"	9/16"	5/8"	5/8"	5/8"	5/8"	
20TH POINTS		0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	
CAMBER (GIRDER IN PLACE) ↑		0.095	0.093	0.088	0.084	0.075	0.066	0.053	0.039	0.020	0.000	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓		0.045	0.044	0.041	0.037	0.032	0.027	0.020	0.014	0.007	0.000	
FINAL CAMBER ↑		5/8"	5/8"	5/8"	9/16"	9/16"	1/2"	7/16"	5/16"	3/16"	0"	
0.6" ø LOW RELAXATION												
GIRDER 3												
20TH POINTS	0.000	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
CAMBER (GIRDER IN PLACE) ↑	0.000	0.020	0.039	0.053	0.066	0.075	0.084	0.088	0.093	0.095	0.096	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.007	0.014	0.021	0.028	0.033	0.039	0.042	0.046	0.047	0.048	
FINAL CAMBER ↑	0"	3/16"	5/16"	7/16"	1/2"	9/16"	9/16"	5/8"	5/8"	5/8"	5/8"	
20TH POINTS		0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	
CAMBER (GIRDER IN PLACE) ↑		0.095	0.093	0.088	0.084	0.075	0.066	0.053	0.039	0.020	0.000	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓		0.047	0.046	0.042	0.039	0.033	0.028	0.021	0.014	0.007	0.000	
FINAL CAMBER ↑		5/8"	5/8"	9/16"	9/16"	1/2"	7/16"	5/16"	3/16"	0"		
0.6" ø LOW RELAXATION												
GIRDER 4												
20TH POINTS	0.000	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
CAMBER (GIRDER IN PLACE) ↑	0.000	0.020	0.039	0.053	0.066	0.075	0.084	0.088	0.093	0.095	0.096	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.007	0.013	0.020	0.026	0.031	0.037	0.040	0.043	0.044	0.045	
FINAL CAMBER ↑	0"	3/16"	5/16"	7/16"	1/2"	9/16"	5/8"	5/8"	5/8"	5/8"	5/8"	
20TH POINTS		0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	
CAMBER (GIRDER IN PLACE) ↑		0.095	0.093	0.088	0.084	0.075	0.066	0.053	0.039	0.020	0.000	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓		0.044	0.043	0.040	0.037	0.031	0.026	0.020	0.013	0.007	0.000	
FINAL CAMBER ↑		5/8"	5/8"	5/8"	5/8"	9/16"	1/2"	7/16"	5/16"	3/16"	0"	
0.6" ø LOW RELAXATION												
GIRDER 5												
20TH POINTS	0.000	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
CAMBER (GIRDER IN PLACE) ↑	0.000	0.020	0.039	0.053	0.066	0.075	0.084	0.088	0.093	0.095	0.096	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.008	0.016	0.024	0.031	0.038	0.044	0.047	0.051	0.053	0.054	
FINAL CAMBER ↑	0"	3/16"	5/16"	3/8"	7/16"	1/2"	1/2"	1/2"	9/16"	9/16"	9/16"	
20TH POINTS		0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	
CAMBER (GIRDER IN PLACE) ↑		0.095	0.093	0.088	0.084	0.075	0.066	0.053	0.039	0.020	0.000	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓		0.053	0.051	0.047	0.044	0.038	0.031	0.024	0.016	0.008	0.000	
FINAL CAMBER ↑		9/16"	9/16"	1/2"	1/2"	1/2"	7/16"	3/8"	5/16"	3/16"	0"	
0.6" ø LOW RELAXATION												
GIRDER 6												
20TH POINTS	0.000	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
CAMBER (GIRDER IN PLACE) ↑	0.000	0.020	0.039	0.053	0.066	0.075	0.084	0.088	0.093	0.095	0.096	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.008	0.017	0.025	0.033	0.039	0.046	0.050	0.054	0.055	0.056	
FINAL CAMBER ↑	0"	3/16"	5/16"	3/8"	7/16"	7/16"	1/2"	1/2"	1/2"	1/2"	1/2"	
20TH POINTS		0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	
CAMBER (GIRDER IN PLACE) ↑		0.095	0.093	0.088	0.084	0.075	0.066	0.053	0.039	0.020	0.00	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓		0.055	0.054	0.050	0.046	0.039	0.033	0.025	0.017	0.008	0.00	
FINAL CAMBER ↑		1/2"	1/2"	1/2"	1/2"	7/16"	7/16"	3/8"	5/16"	3/16"	0"	
0.6" ø LOW RELAXATION												
GIRDER 7												
20TH POINTS	0.000	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
CAMBER (GIRDER IN PLACE) ↑	0.000	0.020	0.039	0.053	0.066	0.075	0.084	0.088	0.093	0.095	0.096	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.009	0.018	0.026	0.035	0.042	0.049	0.053	0.057	0.059	0.060	
FINAL CAMBER ↑	0"	3/16"	5/16"	3/8"	3/8"	7/16"	7/16"	7/16"	7/16"	7/16"	7/16"	
20TH POINTS		0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	
CAMBER (GIRDER IN PLACE) ↑		0.095	0.093	0.088	0.084	0.075	0.066	0.053	0.039	0.020	0.000	
* DEFLECTION DUE TO SUPERIMPOSED DL ↓		0.059	0.057	0.053	0.049	0.042	0.035	0.026	0.018	0.009	0.000	
FINAL CAMBER ↑		7/16"	7/16"	7/16"	7/16"	7/16"	3/8"	3/8"	5/16"	3/16"	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. B-3186 / B-5898  
HAYWOOD COUNTY  
 STATION: 24+70.00 -L LT-  
 SHEET 6 OF 7

DRAWN BY : T.E. NEAL DATE : 04/2023  
 CHECKED BY : S. NATARAJAN DATE : 04/2023  
 DESIGN ENGINEER OF RECORD: D. TUTTLE DATE : 06/2023

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**SUPERSTRUCTURE  
 DEAD LOAD  
 DEFLECTION  
 TABLES**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			50
2			4			