

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																																										
SPAN A																																										
GIRDER #9																																										
FORTIETH POINTS	CL 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	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	CL BRG.	
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.001	0.003	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.007	0.006	0.005	0.004	0.003	0.002	0.000	-0.001	-0.002	-0.002	-0.003	-0.004	-0.005	-0.005	-0.005	-0.005	-0.005	-0.004	-0.003	-0.002	0.000	
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.005	0.009	0.014	0.018	0.022	0.026	0.029	0.032	0.034	0.036	0.038	0.039	0.039	0.039	0.039	0.038	0.036	0.034	0.032	0.029	0.026	0.023	0.020	0.016	0.013	0.009	0.006	0.003	0.000	-0.003	-0.005	-0.007	-0.009	-0.010	-0.010	-0.010	-0.009	-0.007	-0.004	0.000	
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.001	0.001	0.002	0.003	0.003	0.004	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.004	0.004	0.003	0.002	0.002	0.001	0.001	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.007	0.013	0.020	0.026	0.031	0.037	0.042	0.046	0.049	0.052	0.054	0.056	0.057	0.056	0.055	0.051	0.049	0.046	0.042	0.037	0.033	0.028	0.023	0.019	0.012	0.007	0.003	-0.001	-0.005	-0.009	-0.012	-0.014	-0.016	-0.016	-0.016	-0.014	-0.011	-0.006	0.000		
REQUIRED CAMBER	0	1/16"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1 1/8"	1 1/16"	1 1/8"	1 1/4"	5/8"	3/4"	7/8"	1 1/8"	1 1/4"	3/4"	1/2"	3/8"	1/4"	3/16"	1/8"	1/16"	0	-1/16"	-1/8"	-1/8"	-3/16"	-3/16"	-3/16"	-3/16"	-1/8"	-1/16"	0			

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FORTIETH POINTS	CL 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	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	CL BRG.		
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.003	0.006	0.010	0.015	0.019	0.024	0.030	0.035	0.040	0.046	0.051	0.056	0.061	0.065	0.069	0.073	0.077	0.079	0.082	0.083	0.085	0.085	0.085	0.085	0.083	0.081	0.079	0.075	0.072	0.067	0.062	0.057	0.051	0.045	0.038	0.031	0.023	0.016	0.008	0.000		
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.007	0.015	0.025	0.036	0.048	0.061	0.074	0.088	0.101	0.115	0.129	0.142	0.155	0.166	0.177	0.187	0.196	0.204	0.210	0.214	0.218	0.219	0.220	0.219	0.215	0.210	0.203	0.195	0.186	0.174	0.162	0.148	0.132	0.116	0.098	0.080	0.061	0.041	0.021	0.000		
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.001	0.002	0.003	0.005	0.006	0.008	0.010	0.011	0.013	0.015	0.016	0.018	0.020	0.021	0.022	0.023	0.024	0.025	0.026	0.026	0.027	0.027	0.027	0.026	0.025	0.025	0.024	0.022	0.021	0.019	0.018	0.016	0.014	0.012	0.010	0.007	0.005	0.002	0.000			
TOTAL DEAD LOAD DEFLECTION	0.000	0.011	0.023	0.038	0.056	0.073	0.093	0.114	0.134	0.154	0.176	0.196	0.216	0.236	0.252	0.268	0.283	0.297	0.308	0.318	0.323	0.330	0.331	0.332	0.332	0.324	0.316	0.307	0.294	0.280	0.262	0.243	0.223	0.199	0.175	0.148	0.121	0.091	0.062	0.031	0.000		
REQUIRED CAMBER	0	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1 1/8"	1 1/8"	1 1/4"	1 1/4"	1 1/2"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	0

\* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.  
 ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM). EXCEPT "REQUIRED CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. R-2566BA  
WATAUGA COUNTY  
 STATION: 164+30.00 -L-  
 SHEET 9 OF 11

9/30/2021 | 1:43 PM EDT

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**SUPERSTRUCTURE**  
**DEAD LOAD DEFLECTIONS**

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TGS ENGINEERS  
 706 HILLSBOROUGH STREET  
 SUITE 200  
 RALEIGH, NC 27603  
 PH (919) 773-8887  
 CORP. LICENSE NO.: C-0275

DRAWN BY : ZCS DATE : 06/21  
 CHECKED BY : MGC DATE : 06/21  
 DESIGN ENGINEER OF RECORD: RDE DATE : 09/21