


DEAD LOAD DEFLECTION TABLE FOR GIRDERS																																											
SPAN A																																											
GIRDER #3																																											
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	0.007	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.009	0.009	0.008	0.007	0.006	0.005	0.003	0.002	0.001	0.000	-0.001	-0.002	-0.003	-0.003	-0.004	-0.004	-0.005	-0.005	-0.004	-0.004	-0.003	-0.002	0.000		
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.005	0.010	0.015	0.019	0.023	0.027	0.031	0.033	0.036	0.038	0.040	0.041	0.041	0.041	0.040	0.039	0.038	0.036	0.033	0.031	0.027	0.024	0.021	0.017	0.013	0.010	0.006	0.003	0.000	-0.003	-0.006	-0.008	-0.010	-0.011	-0.011	-0.011	-0.011	-0.010	-0.008	-0.004	0.000	
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.006	0.014	0.020	0.025	0.031	0.036	0.042	0.045	0.048	0.051	0.053	0.054	0.054	0.054	0.053	0.052	0.050	0.047	0.044	0.041	0.036	0.032	0.028	0.022	0.017	0.012	0.007	0.003	-0.001	-0.005	-0.009	-0.012	-0.014	-0.016	-0.016	-0.015	-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"	5/8"	5/8"	11/16"	11/16"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	1/2"	7/16"	3/8"	5/16"	1/4"	3/16"	1/8"	1/16"	1/16"	0	-1/16"	-1/8"	-1/8"	-3/16"	-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	0.041	0.046	0.051	0.056	0.061	0.066	0.070	0.074	0.077	0.080	0.082	0.084	0.085	0.086	0.086	0.085	0.084	0.082	0.079	0.076	0.072	0.068	0.063	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	0.017	0.027	0.039	0.052	0.066	0.080	0.095	0.110	0.125	0.140	0.154	0.167	0.180	0.192	0.202	0.212	0.220	0.226	0.231	0.235	0.237	0.237	0.236	0.231	0.226	0.219	0.210	0.200	0.187	0.174	0.159	0.142	0.124	0.106	0.086	0.065	0.044	0.022	0.000
DEFLECTION DUE TO WEIGHT OF PARAPET	0.000	0.000	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.005	0.005	0.006	0.007	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.007	0.006	0.006	0.005	0.004	0.003	0.002	0.001	0.000	
TOTAL DEAD LOAD DEFLECTION	0.000	0.010	0.024	0.038	0.056	0.073	0.093	0.113	0.134	0.156	0.176	0.197	0.217	0.235	0.254	0.270	0.285	0.298	0.310	0.318	0.325	0.330	0.333	0.333	0.331	0.325	0.318	0.308	0.295	0.281	0.263	0.245	0.223	0.199	0.175	0.149	0.121	0.091	0.062	0.031	0.000
REQUIRED CAMBER	0	1/8"	1/4"	7/16"	11/16"	7/8"	11/8"	13/8"	15/8"	17/8"	21/8"	23/8"	25/8"	213/16"	31/16"	31/4"	37/8"	33/16"	313/16"	37/8"	315/16"	4"	4"	4"	37/8"	313/16"	311/16"	33/16"	33/8"	33/16"	215/16"	211/16"	23/8"	21/8"	13/4"	17/16"	11/8"	3/4"	3/8"	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 3 OF 11



9/30/2021 | 1:43 PM EDT

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD DEFLECTIONS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-29
1			3			TOTAL SHEETS
2			4			79

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