

NOTE :
ORDINATE DUE TO SUPERELEVATION
IS ZERO FOR EACH GIRDER.

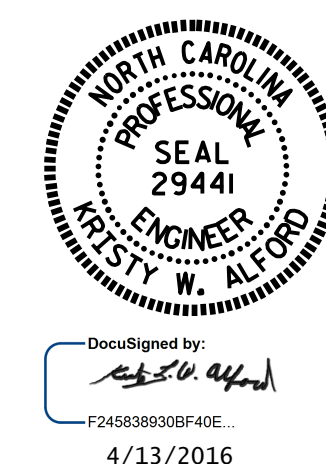
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
SPAN A																						
GIRDER #1																						
TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0.000	0.003	0.005	0.008	0.010	0.012	0.013	0.015	0.015	0.016	0.016	0.015	0.014	0.013	0.011	0.009	0.007	0.005	0.004	0.002	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.010	0.019	0.027	0.035	0.041	0.046	0.050	0.053	0.054	0.054	0.052	0.049	0.044	0.039	0.033	0.026	0.019	0.013	0.006	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	0.003	0.006	0.008	0.011	0.013	0.014	0.015	0.016	0.017	0.017	0.016	0.015	0.014	0.012	0.010	0.008	0.006	0.004	0.002	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.016	0.030	0.043	0.056	0.066	0.073	0.080	0.084	0.087	0.087	0.083	0.078	0.071	0.062	0.052	0.041	0.030	0.021	0.010	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.067	0.130	0.185	0.234	0.275	0.308	0.334	0.353	0.364	0.368	0.365	0.354	0.335	0.310	0.277	0.236	0.188	0.133	0.070	0.000
REQUIRED CAMBER	↑	0	1"	1 ⁵ / ₁₆ "	2 ³ / ₄ "	3 ¹ / ₂ "	4 ¹ / ₁₆ "	4 ⁹ / ₁₆ "	4 ¹⁵ / ₁₆ "	5 ¹ / ₄ "	5 ⁷ / ₁₆ "	5 ⁷ / ₁₆ "	5 ³ / ₈ "	5 ³ / ₁₆ "	4 ⁷ / ₁₆ "	4 ⁷ / ₁₆ "	3 ¹⁵ / ₁₆ "	3 ⁵ / ₁₆ "	2 ⁵ / ₈ "	1 ⁷ / ₈ "	1 ⁵ / ₁₆ "	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
SPAN B																						
GIRDER #1																						
TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0.000	-0.001	-0.002	-0.002	-0.003	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.003	-0.003	-0.003	-0.002	-0.002	-0.001	0.000	
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	-0.003	-0.006	-0.008	-0.010	-0.011	-0.012	-0.013	-0.014	-0.014	-0.015	-0.015	-0.014	-0.014	-0.013	-0.012	-0.010	-0.009	-0.006	-0.003	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	-0.001	-0.002	-0.002	-0.003	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.003	-0.003	-0.003	-0.002	-0.001	0.000	
TOTAL DEAD LOAD DEFLECTION	↓	0.000	-0.005	-0.010	-0.012	-0.016	-0.017	-0.018	-0.021	-0.022	-0.022	-0.023	-0.022	-0.022	-0.022	-0.020	-0.018	-0.016	-0.014	-0.010	-0.005	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.034	0.064	0.091	0.114	0.133	0.149	0.162	0.171	0.176	0.178	0.176	0.171	0.162	0.149	0.133	0.114	0.091	0.064	0.034	0.000
REQUIRED CAMBER	↑	0	3 ⁸ / ₁₆ "	5 ⁸ / ₁₆ "	1 ⁵ / ₁₆ "	1 ³ / ₁₆ "	1 ³ / ₈ "	1 ⁹ / ₁₆ "	1 ¹¹ / ₁₆ "	1 ¹³ / ₁₆ "	1 ⁷ / ₈ "	1 ⁷ / ₈ "	1 ¹³ / ₁₆ "	1 ¹³ / ₁₆ "	1 ¹¹ / ₁₆ "	1 ⁹ / ₁₆ "	1 ³ / ₈ "	1 ³ / ₁₆ "	1 ⁵ / ₁₆ "	5 ⁸ / ₁₆ "	3 ⁸ / ₁₆ "	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
SPAN C																						
GIRDER #1																						
TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0.000	0.002	0.004	0.007	0.009	0.011	0.014	0.016	0.017	0.018	0.019	0.019	0.019	0.018	0.017	0.015	0.012	0.010	0.007	0.004	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.007	0.015	0.023	0.032	0.040	0.048	0.055	0.060	0.064	0.066	0.066	0.065	0.062	0.058	0.051	0.043	0.034	0.024	0.012	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	0.002	0.005	0.008	0.010	0.013	0.015	0.017	0.019	0.020	0.021	0.021	0.020	0.019	0.018	0.016	0.013	0.010	0.007	0.004	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.011	0.024	0.038	0.051	0.064	0.077	0.088	0.096	0.102	0.106	0.106	0.104	0.099	0.093	0.082	0.068	0.054	0.038	0.020	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.079	0.150	0.212	0.266	0.311	0.349	0.378	0.399	0.411	0.415	0.411	0.399	0.378	0.349	0.311	0.266	0.212	0.150	0.079	0.000
REQUIRED CAMBER	↑	0	1 ¹ / ₁₆ "	2 ¹ / ₁₆ "	3"	3 ¹³ / ₁₆ "	4 ¹ / ₂ "	5 ¹ / ₈ "	5 ⁹ / ₁₆ "	5 ¹⁵ / ₁₆ "	6 ¹ / ₈ "	6 ¹ / ₄ "	6 ³ / ₁₆ "	6 ¹ / ₁₆ "	5 ³ / ₄ "	5 ⁵ / ₁₆ "	4 ¹¹ / ₁₆ "	4"	3 ³ / ₁₆ "	2 ¹ / ₄ "	1 ³ / ₁₆ "	0

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

PROJECT NO. B-5121/B-5317
WAKE COUNTY
STATION: 20+19.94 -FLYOVER-
SHEET 1 OF 6



STATE OF NORTH CAROLINA		REVISIONS		SHEET NO.	
DEPARTMENT OF TRANSPORTATION				S-67	
RALEIGH				TOTAL SHEETS	
SUPERSTRUCTURE				110	
DEAD LOAD DEFLECTIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

DRAWN BY : J.P. ADAMS DATE : 1/2016
CHECKED BY : I.L. AVERETTE DATE : 2/2016
DESIGN ENGINEER OF RECORD: R.L. CHESSON DATE : 2/2016

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED