

SCHEMATIC CAMBER ORDINATES

SLOPE FOR THE ZERO CAMBER BASE LINE VARIES

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

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN A																					
GIRDER #6																					
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	0.008	0.015	0.022	0.028	0.034	0.038	0.041	0.043	0.044	0.043	0.042	0.039	0.035	0.031	0.026	0.020	0.015	0.010	0.005	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓ 0.000	0.028	0.054	0.077	0.099	0.117	0.132	0.143	0.149	0.152	0.151	0.145	0.136	0.123	0.107	0.090	0.071	0.052	0.035	0.017	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓ 0.000	0.010	0.019	0.027	0.034	0.041	0.046	0.050	0.052	0.053	0.053	0.051	0.048	0.044	0.038	0.033	0.026	0.019	0.013	0.007	0.000
TOTAL DEAD LOAD DEFLECTION	↓ 0.000	0.046	0.088	0.126	0.161	0.192	0.216	0.234	0.244	0.249	0.247	0.238	0.223	0.202	0.176	0.149	0.117	0.086	0.058	0.029	0.000
VERTICAL CURVE ORDINATE	↑ 0.000	0.082	0.155	0.220	0.276	0.324	0.362	0.393	0.414	0.427	0.431	0.427	0.414	0.393	0.362	0.324	0.276	0.220	0.155	0.082	0.000
REQUIRED CAMBER	↑ 0	1 1/16"	2 1/16"	4 1/8"	5 1/4"	6 3/16"	6 15/16"	7 1/2"	7 7/8"	8 1/8"	8 1/8"	8"	7 5/8"	7 1/8"	6 7/16"	5 11/16"	4 11/16"	3 11/16"	2 9/16"	1 5/16"	0
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN B																					
GIRDER #6																					
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	-0.005	-0.006	-0.007	-0.008	-0.008	-0.008	-0.009	-0.009	-0.009	-0.008	-0.008	-0.007	-0.006	-0.005	-0.004	-0.003	-0.002	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓ 0.000	-0.007	-0.013	-0.018	-0.022	-0.025	-0.028	-0.029	-0.031	-0.031	-0.031	-0.031	-0.030	-0.028	-0.026	-0.023	-0.020	-0.016	-0.011	-0.006	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓ 0.000	-0.002	-0.005	-0.006	-0.008	-0.009	-0.010	-0.010	-0.011	-0.011	-0.011	-0.011	-0.010	-0.010	-0.009	-0.008	-0.007	-0.005	-0.004	-0.002	0.000
TOTAL DEAD LOAD DEFLECTION	↓ 0.000	-0.011	-0.022	-0.029	-0.036	-0.041	-0.046	-0.047	-0.050	-0.051	-0.051	-0.051	-0.048	-0.046	-0.042	-0.037	-0.032	-0.025	-0.018	-0.010	0.000
VERTICAL CURVE ORDINATE	↑ 0.000	0.025	0.047	0.067	0.084	0.099	0.111	0.120	0.126	0.130	0.132	0.130	0.126	0.120	0.111	0.099	0.084	0.067	0.047	0.025	0.000
REQUIRED CAMBER	↑ 0	3/16"	5/16"	7/16"	9/16"	1 1/16"	3/4"	7/8"	1 5/16"	1 5/16"	1"	1 5/16"	1 5/16"	7/8"	1 3/16"	3/4"	5/8"	1/2"	3/8"	3/16"	0
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN C																					
GIRDER #6																					
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	0.006	0.010	0.014	0.018	0.021	0.023	0.025	0.027	0.028	0.028	0.028	0.026	0.024	0.022	0.018	0.014	0.010	0.005	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓ 0.000	0.011	0.023	0.036	0.048	0.062	0.073	0.082	0.090	0.095	0.098	0.098	0.097	0.093	0.085	0.076	0.063	0.050	0.035	0.019	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓ 0.000	0.004	0.008	0.012	0.017	0.021	0.024	0.027	0.030	0.031	0.032	0.032	0.032	0.030	0.028	0.024	0.020	0.016	0.011	0.006	0.000
TOTAL DEAD LOAD DEFLECTION	↓ 0.000	0.018	0.037	0.058	0.079	0.101	0.118	0.132	0.145	0.153	0.158	0.158	0.157	0.149	0.137	0.122	0.101	0.080	0.056	0.030	0.000
VERTICAL CURVE ORDINATE	↑ 0.000	0.064	0.121	0.171	0.215	0.252	0.282	0.306	0.323	0.333	0.336	0.333	0.323	0.306	0.282	0.252	0.215	0.171	0.121	0.064	0.000
REQUIRED CAMBER	↑ 0	1"	1 7/8"	2 3/4"	3 1/2"	4 1/4"	4 13/16"	5 1/4"	5 5/8"	5 13/16"	5 15/16"	5 7/8"	5 3/4"	5 7/16"	5"	4 1/2"	3 13/16"	3"	2 1/8"	1 1/8"	0

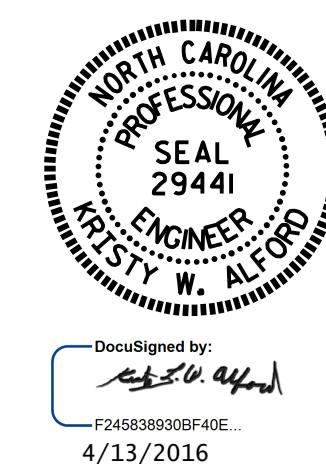
* INCLUDES SLAB, BUILDUPS & STAY-IN-PLACE FORMS.
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT " FINAL CAMBER ", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. B-5121/B-5317

WAKE COUNTY

STATION: 20+19.94 -FLYOVER-

SHEET 6 OF 6



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD
DEFLECTIONS

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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-72
1			3			TOTAL SHEETS 110
2			4			