

STAGE II

	GIRDER #1																				
@ TWENTIETH POINTS BETWEEN C BEARINGS	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	0.038	0.074	0.109	0.139	0.166	0.189	0.207	0.220	0.228	0.230	0.228	0.220	0.207	0.188	0.166	0.139	0.108	0.074	0.038	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.117	0.229	0.335	0.430	0.513	0.582	0.637	0.677	0.701	0.709	0.700	0.675	0.635	0.579	0.509	0.427	0.332	0.227	0.117	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.013	0.026	0.037	0.048	0.057	0.065	0.071	0.075	0.078	0.079	0.078	0.075	0.071	0.065	0.057	0.048	0.037	0.025	0.013	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.168	0.329	0.481	0.617	0.736	0.836	0.915	0.973	1.007	1.018	1.006	0.970	0.912	0.832	0.732	0.613	0.477	0.326	0.169	0.000
VERTICAL CURVE ORDINATE	0.000	-0.071	-0.134	-0.190	-0.239	-0.280	-0.314	-0.340	-0.358	-0.370	-0.373	-0.370	-0.358	-0.340	-0.314	-0.280	-0.239	-0.190	-0.134	-0.071	0.000
ORDINATE DUE TO SUPERELEVATION	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	1 ³ / ₁₆	2 ⁵ / ₁₆	3 ¹ / ₂	4 ¹ / ₂	5 ¹ / ₂	6 ¹ / ₄	6 ⁷ / ₈	7 ³ / ₈	7 ⁵ / ₈	7 ³ / ₄	7 ⁵ / ₈	7 ³ / ₈	6 ⁷ / ₈	6 ³ / ₁₆	5 ⁵ / ₁₆	4 ⁷ / ₁₆	3 ⁵ / ₁₆	2 ¹ / ₄	1 ¹ / ₈	0

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

	GIRDER #2																				
@ TWENTIETH POINTS BETWEEN C BEARINGS	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	0.037	0.074	0.108	0.139	0.166	0.188	0.206	0.219	0.227	0.230	0.227	0.219	0.206	0.188	0.166	0.139	0.108	0.074	0.037	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.101	0.198	0.290	0.373	0.446	0.508	0.556	0.593	0.617	0.625	0.616	0.595	0.560	0.513	0.452	0.379	0.295	0.202	0.103	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.013	0.026	0.038	0.049	0.058	0.066	0.073	0.077	0.080	0.081	0.080	0.077	0.073	0.066	0.058	0.049	0.038	0.026	0.013	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.152	0.297	0.436	0.561	0.670	0.762	0.835	0.890	0.924	0.936	0.923	0.892	0.839	0.767	0.676	0.566	0.441	0.301	0.154	0.000
VERTICAL CURVE ORDINATE	0.000	-0.071	-0.134	-0.190	-0.239	-0.280	-0.314	-0.340	-0.358	-0.370	-0.373	-0.370	-0.358	-0.340	-0.314	-0.280	-0.239	-0.190	-0.134	-0.071	0.000
ORDINATE DUE TO SUPERELEVATION	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	1 ⁵ / ₁₆	2	3	3 ⁷ / ₈	4 ¹¹ / ₁₆	5 ³ / ₈	5 ³ / ₄	6 ³ / ₈	6 ⁵ / ₈	6 ³ / ₄	6 ⁵ / ₈	6 ³ / ₈	5 ³ / ₄	5 ⁷ / ₁₆	4 ³ / ₄	3 ⁷ / ₈	3	2	1	0

	GIRDER #3																				
@ TWENTIETH POINTS BETWEEN C BEARINGS	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	0.038	0.074	0.108	0.139	0.166	0.188	0.207	0.219	0.227	0.230	0.228	0.220	0.207	0.189	0.166	0.139	0.109	0.074	0.038	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.089	0.172	0.251	0.322	0.384	0.436	0.478	0.508	0.532	0.540	0.530	0.510	0.477	0.436	0.384	0.321	0.251	0.171	0.087	0.000
DEFLECTION DUE TO WEIGHT OF RAIL	0.000	0.014	0.027	0.039	0.050	0.060	0.068	0.075	0.079	0.082	0.083	0.082	0.080	0.075	0.069	0.060	0.051	0.040	0.027	0.014	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.141	0.272	0.398	0.511	0.610	0.693	0.759	0.806	0.842	0.853	0.840	0.809	0.759	0.693	0.610	0.511	0.399	0.272	0.139	0.000
VERTICAL CURVE ORDINATE	0.000	-0.071	-0.134	-0.190	-0.239	-0.280	-0.314	-0.340	-0.358	-0.370	-0.373	-0.370	-0.358	-0.340	-0.314	-0.280	-0.239	-0.190	-0.134	-0.071	0.000
ORDINATE DUE TO SUPERELEVATION	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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	1 ³ / ₁₆	1 ⁵ / ₈	2 ¹ / ₂	3 ¹ / ₄	4	4 ⁹ / ₁₆	5	5 ³ / ₈	5 ¹¹ / ₁₆	5 ³ / ₄	5 ⁵ / ₈	5 ⁷ / ₁₆	5	4 ⁹ / ₁₆	4	3 ¹ / ₄	2 ¹ / ₂	1 ⁵ / ₈	1 ³ / ₁₆	0

PROJECT NO. B-3375
WAKE COUNTY
 STATION: 43+81.84 -L-

SHEET 2 OF 2



Emily E. Murray
12/17/04

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH SUPERSTRUCTURE					
DEAD LOAD DEFLECTIONS (STAGE II CONSTRUCTION)					
REVISIONS					SHEET NO. S-16
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					37

DRAWN BY : M. M. PARSONS DATE : 9/30/04
 CHECKED BY : W.D. CRUTCHER DATE : 11-04