

DEAD LOAD DEFLECTION TABLE FOR BEAMS																																
TENTH POINTS	SPAN A																															
	BEAM A1										BEAM A2										BEAM A3											
	BRG.	.1	.2	.3	.4	.5	.6	.7	.8	.9	BRG.	.1	.2	.3	.4	.5	.6	.7	.8	.9	BRG.	.1	.2	.3	.4	.5	.6	.7	.8	.9	BRG.	
DEFLECTION DUE TO WEIGHT OF BEAM	0	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0	0	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0	0	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0	
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.005	0.010	0.016	0.016	0.016	0.016	0.016	0.010	0.005	0	0	0.005	0.010	0.016	0.016	0.016	0.016	0.010	0.005	0	0	0.010	0.016	0.016	0.021	0.021	0.016	0.016	0.010	0.005	0
DEFLECTION DUE TO WEIGHT OF SIDEWALK	0	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0	0	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0	0	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0	
TOTAL DEAD LOAD DEFLECTION	0	0.015	0.020	0.026	0.026	0.026	0.026	0.026	0.020	0.015	0	0	0.015	0.020	0.026	0.026	0.026	0.026	0.020	0.015	0	0	0.020	0.026	0.026	0.031	0.031	0.026	0.026	0.020	0.015	0
VERTICAL CURVE ORDINATE	0	-0.002	-0.003	-0.004	-0.005	-0.005	-0.005	-0.004	-0.003	-0.002	0	0	-0.002	-0.003	-0.004	-0.005	-0.005	-0.004	-0.003	-0.002	0	0	-0.002	-0.003	-0.004	-0.005	-0.005	-0.004	-0.003	-0.002	0	
ORDINATE DUE TO SUPERELEVATION	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SEE NOTE																																

* 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).

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																								
TWENTIETH POINTS	SPAN B																							
	GIRDER B1																							
	BRG.	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	BRG.			
DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.014	0.027	0.039	0.050	0.059	0.067	0.073	0.078	0.081	0.082	0.081	0.078	0.073	0.067	0.059	0.050	0.039	0.027	0.014	0			
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.046	0.091	0.132	0.170	0.202	0.229	0.250	0.266	0.275	0.278	0.275	0.266	0.250	0.229	0.202	0.170	0.132	0.091	0.046	0			
DEFLECTION DUE TO WEIGHT OF SIDEWALK	0	0.009	0.017	0.025	0.032	0.038	0.043	0.047	0.050	0.052	0.053	0.052	0.050	0.047	0.043	0.038	0.032	0.025	0.017	0.009	0			
TOTAL DEAD LOAD DEFLECTION	0	0.069	0.135	0.196	0.252	0.299	0.339	0.370	0.394	0.408	0.413	0.408	0.394	0.370	0.339	0.299	0.252	0.196	0.135	0.069	0			
VERTICAL CURVE ORDINATE	0	-0.006	-0.012	-0.017	-0.021	-0.025	-0.028	-0.030	-0.032	-0.033	-0.033	-0.033	-0.032	-0.030	-0.028	-0.025	-0.021	-0.017	-0.012	-0.006	0			
ORDINATE DUE TO SUPERELEVATION	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
REQUIRED CAMBER	0	3/4"	1 1/8"	2 1/8"	2 3/4"	3 5/16"	3 3/4"	4 1/16"	4 3/8"	4 1/2"	4 9/16"	4 1/2"	4 3/8"	4 1/16"	3 3/4"	3 5/16"	2 3/4"	2 1/8"	1 3/8"	3/4"	0			
TWENTIETH POINTS	GIRDER B2																							
	BRG.	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	BRG.			
	DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.014	0.027	0.039	0.050	0.059	0.067	0.073	0.078	0.081	0.082	0.081	0.078	0.073	0.067	0.059	0.050	0.039	0.027	0.014	0		
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.045	0.090	0.132	0.169	0.202	0.228	0.250	0.266	0.275	0.278	0.275	0.266	0.250	0.228	0.202	0.169	0.132	0.090	0.045	0			
DEFLECTION DUE TO WEIGHT OF SIDEWALK	0	0.009	0.017	0.025	0.032	0.038	0.043	0.047	0.049	0.051	0.052	0.051	0.049	0.047	0.043	0.038	0.032	0.025	0.017	0.009	0			
TOTAL DEAD LOAD DEFLECTION	0	0.068	0.134	0.196	0.251	0.299	0.338	0.370	0.393	0.407	0.412	0.407	0.393	0.370	0.338	0.299	0.251	0.196	0.134	0.068	0			
VERTICAL CURVE ORDINATE	0	-0.006	-0.012	-0.017	-0.021	-0.025	-0.028	-0.030	-0.032	-0.033	-0.033	-0.033	-0.032	-0.030	-0.028	-0.025	-0.021	-0.017	-0.012	-0.006	0			
ORDINATE DUE TO SUPERELEVATION	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
REQUIRED CAMBER	0	3/4"	1 1/16"	2 1/8"	2 3/4"	3 5/16"	3 3/4"	4 1/16"	4 5/16"	4 1/2"	4 9/16"	4 1/2"	4 5/16"	4 1/16"	3 3/4"	3 5/16"	2 3/4"	2 1/8"	1 7/16"	3/4"	0			
TWENTIETH POINTS	GIRDER B3																							
	BRG.	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	BRG.			
	DEFLECTION DUE TO WEIGHT OF GIRDER	0	0.014	0.027	0.039	0.050	0.059	0.067	0.073	0.078	0.081	0.082	0.081	0.078	0.073	0.067	0.059	0.050	0.039	0.027	0.014	0		
DEFLECTION DUE TO WEIGHT OF SLAB *	0	0.050	0.100	0.146	0.187	0.223	0.253	0.277	0.294	0.304	0.307	0.304	0.294	0.277	0.253	0.223	0.187	0.146	0.100	0.050	0			
DEFLECTION DUE TO WEIGHT OF SIDEWALK	0	0.009	0.017	0.025	0.032	0.038	0.043	0.047	0.049	0.051	0.052	0.051	0.049	0.047	0.043	0.038	0.032	0.025	0.017	0.009	0			
TOTAL DEAD LOAD DEFLECTION	0	0.073	0.144	0.210	0.269	0.320	0.363	0.397	0.421	0.436	0.441	0.436	0.421	0.397	0.363	0.320	0.269	0.210	0.144	0.073	0			
VERTICAL CURVE ORDINATE	0	-0.006	-0.012	-0.017	-0.021	-0.025	-0.028	-0.030	-0.032	-0.033	-0.033	-0.033	-0.032	-0.030	-0.028	-0.025	-0.021	-0.017	-0.012	-0.006	0			
ORDINATE DUE TO SUPERELEVATION	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
REQUIRED CAMBER	0	1 3/16"	1 1/16"	2 5/16"	3"	3 3/16"	4"	4 3/8"	4 11/16"	4 13/16"	4 7/8"	4 13/16"	4 11/16"	4 3/8"	4"	3 3/16"	3"	2 5/16"	1 9/16"	1 3/16"	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).

NOTES:

NO SHOP CAMBER REQUIRED FOR SPAN A,
TURN NATURAL MILL CAMBER UP.

PROJECT NO. U-3837
FORSYTH COUNTY
STATION: 21+64.07 -L-

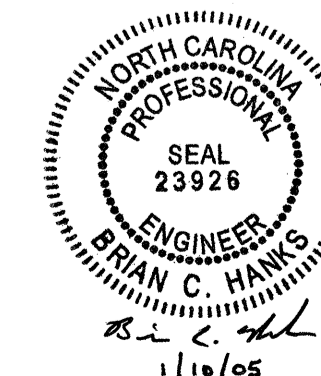
SHEET 1 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DEAD LOAD
DEFLECTIONS

(LEFT LANE WIDENING)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-17
1			3			TOTAL SHEETS
2			4			78



DRAWN BY: William J. Parker DATE: 02/03/04
CHECKED BY: K. K. PUROHIT DATE: 5/25/04