

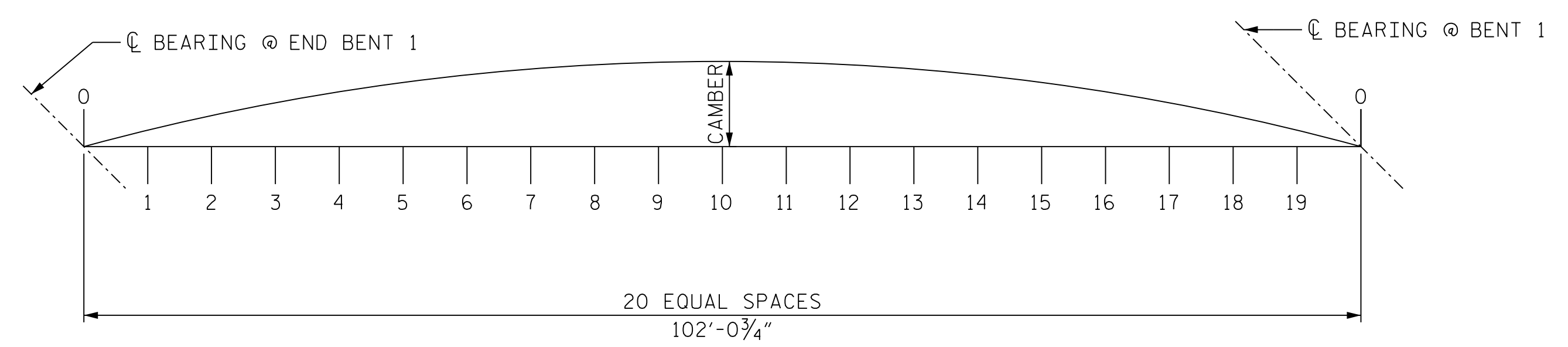
pw:\parrish-pw\Bentley\comp\parrish-pw\Documents\Surface Transportation\NC001 BR\_840010 (BR-0047)\Project Design\Structures\DRAWINGS\FINAL\400.033.BR0047\_SML.DL\_016\_084010 4/8/2020 2:30:57 PM

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
TWENTIETH POINTS	SPAN A																					
	GIRDER #1																					
	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	0.007	0.013	0.018	0.023	0.027	0.030	0.032	0.033	0.032	0.031	0.028	0.025	0.022	0.017	0.013	0.009	0.006	0.003	0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.019	0.038	0.055	0.069	0.081	0.090	0.096	0.098	0.097	0.092	0.085	0.076	0.065	0.052	0.040	0.028	0.017	0.008	0.002	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	0.002	0.004	0.006	0.008	0.009	0.010	0.010	0.011	0.011	0.010	0.009	0.008	0.007	0.006	0.005	0.003	0.002	0.001	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.028	0.055	0.079	0.100	0.117	0.130	0.138	0.141	0.139	0.133	0.123	0.109	0.093	0.076	0.058	0.040	0.025	0.012	0.003	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.002	0.004	0.005	0.007	0.009	0.011	0.013	0.015	0.016	0.018	0.020	0.022	0.024	0.025	0.026	0.024	0.021	0.016	0.009	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	3/8"	11/16"	1"	1 1/16"	1 1/2"	1 11/16"	1 3/16"	1 7/8"	1 7/8"	1 3/16"	1 11/16"	1 9/16"	1 3/8"	1 3/16"	1"	3/4"	5/16"	5/16"	1/8"	0

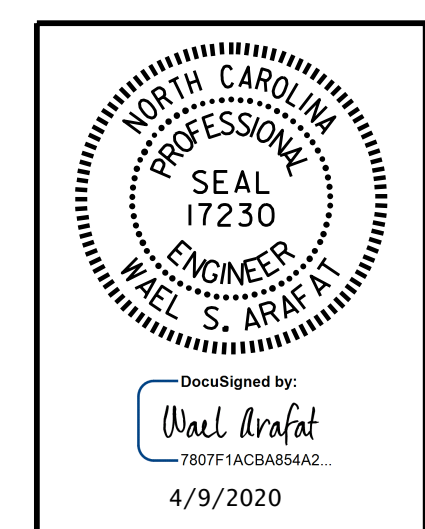
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
TWENTIETH POINTS	SPAN A																					
	GIRDER #2																					
	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0.000	0.007	0.013	0.018	0.023	0.027	0.030	0.032	0.033	0.032	0.031	0.028	0.025	0.022	0.017	0.013	0.009	0.006	0.003	0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.020	0.038	0.055	0.070	0.082	0.090	0.096	0.098	0.097	0.093	0.086	0.076	0.065	0.052	0.040	0.028	0.017	0.008	0.002	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	0.002	0.003	0.004	0.005	0.006	0.007	0.007	0.008	0.008	0.007	0.007	0.006	0.005	0.004	0.003	0.002	0.001	0.001	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.028	0.054	0.078	0.098	0.115	0.127	0.135	0.138	0.137	0.131	0.121	0.107	0.091	0.074	0.056	0.039	0.024	0.012	0.003	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.003	0.006	0.009	0.012	0.015	0.018	0.021	0.024	0.027	0.031	0.034	0.037	0.038	0.038	0.036	0.033	0.027	0.020	0.011	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	3/8"	11/16"	1 1/16"	1 5/16"	1 9/16"	1 3/4"	1 7/8"	1 5/16"	2"	1 5/16"	1 7/8"	1 3/4"	1 9/16"	1 3/8"	1 1/8"	7/8"	5/8"	3/8"	3/16"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
TWENTIETH POINTS	SPAN A																					
	GIRDER #3																					
	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	0.007	0.013	0.018	0.023	0.027	0.030	0.032	0.033	0.032	0.031	0.028	0.025	0.022	0.017	0.013	0.009	0.006	0.003	0.001	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	↓	0.000	0.020	0.038	0.055	0.070	0.082	0.091	0.096	0.098	0.097	0.093	0.086	0.076	0.065	0.053	0.040	0.028	0.017	0.008	0.002	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	↓	0.000	0.001	0.002	0.003	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.004	0.004	0.003	0.002	0.002	0.001	0.001	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	↓	0.000	0.027	0.053	0.076	0.097	0.113	0.126	0.133	0.136	0.135	0.129	0.119	0.106	0.090	0.073	0.055	0.039	0.024	0.011	0.003	0.000
VERTICAL CURVE ORDINATE	↑	0.000	0.005	0.009	0.014	0.018	0.023	0.028	0.032	0.037	0.041	0.046	0.050	0.051	0.051	0.049	0.046	0.040	0.033	0.024	0.013	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	3/8"	3/4"	1 1/16"	1 3/8"	1 5/8"	1 13/16"	2"	2 1/16"	2 1/8"	2 1/8"	2"	1 7/8"	1 11/16"	1 7/16"	1 3/16"	1 5/16"	1 1/16"	7/16"	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).



**SCHEMATIC CAMBER ORDINATES**  
 SLOPE FOR THE ZERO CAMBER BASE LINE VARIES.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PROJECT NO. BR-0047  
STOKES COUNTY  
 STATION: 18+27.98 -L-

SHEET 1 OF 4  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 DEAD LOAD DEFLECTIONS

DRAWN BY : G.C. MORRIS DATE : 08-19  
 CHECKED BY : W.S. ARAFAT DATE : 11-19  
 DESIGN ENGINEER OF RECORD: O. PUIGCERVER DATE : 09-19

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS 39
2			4			