

**NOTE**  
UPWARD DEFLECTIONS ARE INDICATED WITH A "-" SIGN.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
SPAN A																					
GIRDERS 1 & 5																					
TWENTIETH POINTS	0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.003	0.005	0.007	0.009	0.011	0.011	0.012	0.012	0.011	0.010	0.008	0.006	0.004	0.002	0.000	-0.001	-0.002	-0.002	-0.002	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.015	0.028	0.038	0.047	0.052	0.056	0.058	0.057	0.053	0.048	0.039	0.030	0.022	0.013	0.003	-0.004	-0.007	-0.007	-0.005	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	0.001	0.003	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.004	0.003	0.002	0.001	0.000	-0.001	-0.001	-0.001	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.019	0.036	0.049	0.061	0.069	0.073	0.076	0.075	0.070	0.063	0.052	0.040	0.029	0.017	0.004	-0.005	-0.010	-0.010	-0.008	0.000
VERTICAL CURVE ORDINATE	0.000	0.099	0.187	0.265	0.333	0.390	0.436	0.473	0.499	0.514	0.520	0.514	0.499	0.473	0.436	0.390	0.333	0.265	0.187	0.099	0.000
REQUIRED CAMBER	0"	1 1/16"	2 1/16"	3 3/4"	4 3/4"	5 1/2"	6 1/8"	6 9/16"	6 7/8"	7"	7"	6 13/16"	6 7/16"	6"	5 7/16"	4 3/4"	3 15/16"	3 1/8"	2 1/8"	1 1/8"	0"

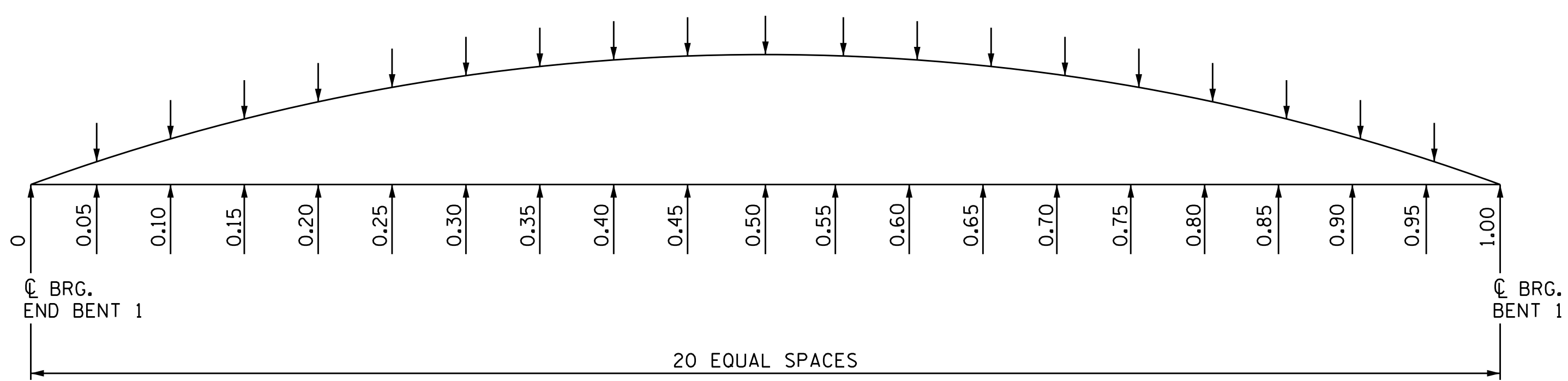
  

GIRDERS 2 & 4																					
TWENTIETH POINTS	0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.003	0.005	0.008	0.010	0.011	0.012	0.012	0.012	0.011	0.010	0.008	0.006	0.004	0.002	0.000	-0.001	-0.002	-0.002	-0.002	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.017	0.032	0.045	0.055	0.063	0.068	0.070	0.069	0.065	0.058	0.048	0.037	0.026	0.015	0.004	-0.004	-0.008	-0.009	-0.006	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	0.001	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.002	0.001	0.000	0.000	0.000	-0.001	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.021	0.039	0.056	0.068	0.078	0.084	0.086	0.085	0.080	0.072	0.059	0.046	0.032	0.018	0.004	-0.005	-0.010	-0.012	-0.008	0.000
VERTICAL CURVE ORDINATE	0.000	0.099	0.187	0.265	0.333	0.390	0.436	0.473	0.499	0.514	0.520	0.514	0.499	0.473	0.436	0.390	0.333	0.265	0.187	0.099	0.000
REQUIRED CAMBER	0"	1 7/16"	2 1/16"	3 7/8"	4 13/16"	5 5/8"	6 1/4"	6 11/16"	7"	7 1/8"	7 1/8"	6 7/8"	6 3/16"	6 1/8"	5 7/16"	4 3/4"	3 15/16"	3 1/8"	2 1/8"	1 1/8"	0"

GIRDER 3																					
TWENTIETH POINTS	0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.003	0.005	0.008	0.010	0.011	0.012	0.012	0.012	0.011	0.010	0.008	0.006	0.004	0.002	0.000	-0.001	-0.002	-0.002	-0.002	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.019	0.036	0.050	0.062	0.071	0.077	0.079	0.077	0.072	0.065	0.054	0.042	0.029	0.017	0.005	-0.004	-0.009	-0.010	-0.007	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL	0.000	0.001	0.003	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.005	0.004	0.004	0.003	0.002	0.001	0.000	-0.001	-0.001	-0.001	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.023	0.044	0.062	0.077	0.087	0.095	0.097	0.095	0.089	0.080	0.066	0.052	0.036	0.021	0.006	-0.005	-0.012	-0.013	-0.010	0.000
VERTICAL CURVE ORDINATE	0.000	0.099	0.187	0.265	0.333	0.390	0.436	0.473	0.499	0.514	0.520	0.514	0.499	0.473	0.436	0.390	0.333	0.265	0.187	0.099	0.000
REQUIRED CAMBER	0"	1 7/16"	2 3/4"	3 15/16"	4 15/16"	5 3/4"	6 3/8"	6 13/16"	7 1/8"	7 1/4"	7 3/16"	6 15/16"	6 5/8"	6 1/8"	5 1/2"	4 3/4"	3 15/16"	3 1/16"	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).



SPAN A  
SCHEMATIC CAMBER ORDINATES

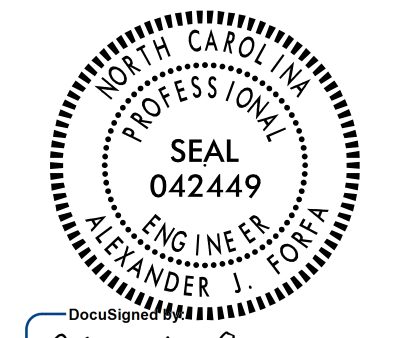
PROJECT NO. BR-0033  
McDOWELL COUNTY  
STATION: 16+11.51 -L-

SHEET 1 OF 2

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

SUPERSTRUCTURE  
DEAD LOAD DEFLECTION TABLES

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			32



Alexander Forfa 11/23/2021

DRAWN BY : M. SPENCER DATE : 06/2021  
CHECKED BY : A. FORFA DATE : 06/2021  
DESIGN ENGINEER OF RECORD : A. FORFA DATE : 09/2021



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