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DEAD LOAD DEFLECTION TABLE FOR GIRDERS

	GIRDERS A1 & A4																				
TWENTIETH POINTS	BRG.	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	BRG.
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.034	0.066	0.097	0.124	0.149	0.169	0.186	0.198	0.205	0.207	0.205	0.198	0.186	0.169	0.149	0.124	0.097	0.066	0.034	0.000
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	0.077	0.154	0.226	0.291	0.348	0.397	0.436	0.464	0.481	0.487	0.481	0.464	0.436	0.397	0.348	0.291	0.226	0.154	0.077	0.000
DEFLECTION DUE TO BARRIER RAIL	0.000	0.023	0.046	0.067	0.086	0.103	0.117	0.128	0.137	0.142	0.143	0.142	0.137	0.128	0.117	0.103	0.086	0.067	0.046	0.023	0.000
TOTAL DEAL LOAD DEFLECTION	0.000	0.134	0.266	0.389	0.501	0.600	0.683	0.749	0.798	0.827	0.837	0.827	0.798	0.749	0.683	0.600	0.501	0.389	0.266	0.134	0.000
VERTICAL CURVE ORDINATE	0.000	-0.061	-0.117	-0.165	-0.207	-0.243	-0.272	-0.295	-0.311	-0.320	-0.324	-0.320	-0.311	-0.295	-0.272	-0.243	-0.207	-0.165	-0.117	-0.061	0.000
REQUIRED CAMBER	0	7/8	1 13/16	2 11/16	3 1/2	4 5/16	4 15/16	5 7/16	5 7/8	6 1/16	6 3/16	6 1/16	5 7/8	5 7/16	4 15/16	4 5/16	3 1/2	2 11/16	1 13/16	7/8	0

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

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

	GIRDERS A2 & A3																				
TWENTIETH POINTS	BRG.	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	BRG.
DEFLECTION DUE TO WEIGHT OF GIRDER	0.000	0.035	0.069	0.101	0.130	0.156	0.177	0.194	0.207	0.214	0.217	0.214	0.207	0.194	0.177	0.156	0.130	0.101	0.069	0.035	0.000
DEFLECTION DUE TO WEIGHT OF SLAB ✳	0.000	0.077	0.154	0.225	0.291	0.348	0.396	0.435	0.463	0.480	0.486	0.480	0.463	0.435	0.396	0.348	0.291	0.225	0.154	0.077	0.000
DEFLECTION DUE TO BARRIER RAIL	0.000	0.022	0.044	0.064	0.083	0.099	0.113	0.123	0.131	0.136	0.138	0.136	0.131	0.123	0.113	0.099	0.083	0.064	0.044	0.022	0.000
TOTAL DEAL LOAD DEFLECTION	0.000	0.134	0.267	0.391	0.503	0.602	0.686	0.753	0.801	0.831	0.841	0.831	0.801	0.753	0.686	0.602	0.503	0.391	0.267	0.134	0.000
VERTICAL CURVE ORDINATE	0.000	-0.061	-0.117	-0.165	-0.207	-0.243	-0.272	-0.295	-0.311	-0.320	-0.324	-0.320	-0.311	-0.295	-0.272	-0.243	-0.207	-0.165	-0.117	-0.061	0.000
REQUIRED CAMBER	0	7/8	1 13/16	2 11/16	3 9/16	4 5/16	4 15/16	5 1/2	5 7/8	6 1/8	6 3/16	6 1/8	5 7/8	5 1/2	4 15/16	4 5/16	3 9/16	2 11/16	1 13/16	14/16	0

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

PROJECT NO. R-2519B
YANCEY/MITCHELL COUNTY
STATION: 247+87.50 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
DEAD LOAD DEFLECTIONS
(RIGHT LANE)

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8/21/2014
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DocuSigned by: Matthew K. Tom
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REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-178
1			3					TOTAL SHEETS
2			4					194

DRAWN BY : M. K. TOM DATE : 12/11/12
CHECKED BY : J. C. HALL DATE : 5/9/13
DESIGNED BY : M. K. TOM DATE : 12/11/12

8/20/2014
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