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			— I	DEAD	L0/	AD D	EFLE	CTI	ON T	ABL	E FO	R G	IRDE	RS								
SPAN A																						
	GIRDERS G1-G5																					
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	1.00
DEFLECTION DUE TO WEIGHT OF STEEL	<b>\</b>	0	.000	.000	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.000	.000	0
* DEFLECTION DUE TO WEIGHT OF SLAB	<b>\rightarrow</b>	0	.001	.002	.003	.004	.005	.005	.006	.006	.006	.006	.006	.006	.006	.005	.005	.004	.003	.002	.001	0
DEFLECTION DUE TO WEIGHT OF RAIL	<b>\rightarrow</b>	0	.000	.000	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.000	.000	0
TOTAL DEAD LOAD DEFLECTION	<b>†</b>	0	.001	.002	.005	.006	.007	.007	.008	.008	.008	.008	.008	.008	.008	.007	.007	.006	.005	.002	.001	0
VERTICAL CURVE ORDINATE	<b>A</b>	0	.002	.005	.007	.008	.010	.011	.012	.012	.013	.013	.013	.012	.012	.011	.010	.008	.007	.005	.002	0
SUPERELEVATION ORDINATE	<b>A</b>	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
REQUIRED CAMBER	<b>A</b>	0	½16"	½16"	1/8"	<sup>3</sup> ⁄ <sub>16</sub> "	<sup>3</sup> / <sub>16</sub> "	<sup>3</sup> ⁄ <sub>16</sub> "	1⁄4"	1⁄4"	1/4"	1/4"	1/4"	1/4"	1/4"	<sup>3</sup> ⁄ <sub>16</sub> "	<sup>3</sup> ⁄ <sub>16</sub> "	<sup>3</sup> ⁄ <sub>16</sub> "	1/8"	½16"	½16"	0

<sup>\*</sup> 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).

			— [	<b>DEAD</b>	LO/	AD D	EFLE	ECTI	ON 1	ΓABLI	FG	$\mathbf{G}$	IRDE	RS								
SPAN B																						
	GIRDERS G1-G5 (0 THRU .500)																					
FORTIETH POINTS		0	.025	.050	.075	.100	.125	.150	.175	.200	.225	.250	.275	300	.325	.350	.375	.400	.425	.450	.475	.500
DEFLECTION DUE TO WEIGHT OF STEEL	+	0	.010	.021	.031	.041	.050	.059	.068	.077	.085	.092	.099	.105	.111	.115	.120	.123	.126	.128	.129	.129
* DEFLECTION DUE TO WEIGHT OF SLAB	+	0	.019	.046	.074	.100	.126	.152	.176	.198	.220	.240	.258	.275	.290	.303	314	.324	.331	.336	.339	340
DEFLECTION DUE TO WEIGHT OF RAIL	<del> </del>	0	.013	.014	.022	.029	.035	.042	.048	.054	.060	.065	.070	.074	.078	.081	.084	.087	.088	.090	.091	.091
TOTAL DEAD LOAD DEFLECTION	<del> </del>	0	.036	.081	.127	.170	.211	.253	.292	.329	.365	.397	.427	.454	.479	.499	518	.534	.545	.554	.559	.560
VERTICAL CURVE ORDINATE	<u> </u>	0	.012	.024	.035	.046	.056	.065	.074	.082	.089	.096	.102	.107	.112	.116	.120	.123	.125	.126	.127	.128
SUPERELEVATION ORDINATE	<u> </u>	0	.000	000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
REQUIRED CAMBER	<u> </u>	0	9/16"	11/4"	1 <sup>15</sup> / <sub>16</sub> "	25/8"	31/4"	313/16"	4½°	415/16"	5½"	5 <sup>15</sup> / <sub>16</sub> "	63/8"	63/4"	71/8"		711/16"		8½6"	83/16"	81/4"	8 <sup>5</sup> / <sub>16</sub> "
	SPAN B																					
	GIRDERS G1-G5 (.500 THRU 1.000)																					
FORTIETH POINTS		.500	.525	.550	.575	.600	.625	.650	.675	.700	.725	.750	.775	.800	.825	.850	.875	.900	.925	.950	.975	1.00
DEFLECTION DUE TO WEIGHT OF STEEL	<b>+</b>	.129	.129	.128	.126	.123	.120	.115	.111	.105	.099	.092	.085	.077	.068	.059	.050	.041	.031	.021	.010	0
* DEFLECTION DUE TO WEIGHT OF SLAB	<b>+</b>	.340	.339	.336	.331	.324	.314	.303	.290	.275	.258	.240	.220	.198	.176	.152	.126	.100	.074	.046	.019	0
DEFLECTION DUE TO WEIGHT OF RAIL	<b>+</b>	.091	.091	.090	.088	.087	.084	.081	.078	.074	.070	.065	.060	.054	.048	.042	.035	.029	.022	.014	.007	0
TOTAL DEAD LOAD DEFLECTION	<b>\</b>	.560	.559	.554	.545	.534	.518	.499	.479	.454	.427	.397	.365	.329	.292	.253	.211	.170	.127	.081	.036	0
VERTICAL CURVE ORDINATE	<u></u>	.128	.127	.126	.125	.123	.120	.116	.112	.107	.102	.096	.089	.082	.074	.065	.056	.046	.035	.024	.012	0
SUPERELEVATION ORDINATE	<b>A</b>	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
REQUIRED CAMBER	<b>A</b>	8 <sup>5</sup> ⁄16"	8½"	8 <sup>3</sup> ⁄16"	81/16"	7 <sup>15</sup> ⁄16"	711/16"	77/16"	7 <sup>1</sup> ⁄ <sub>8</sub> "	6¾"	6 <sup>3</sup> ⁄8"	5 <sup>15</sup> ⁄16"	5½"	415/16"	4½6"	33/16"	211/16"	25/8"	1 <sup>15</sup> ⁄16"	11/4"	<sup>9</sup> / <sub>16</sub> "	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).

			<b>—</b> [	DEAD	L0/	AD D	EFLE	CTI	ON T	ABLI	E FO	R G	CRDE	RS								
SPAN C																						
GIRDERS G1-G5																						
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	1.00
DEFLECTION DUE TO WEIGHT OF STEEL	<b>†</b>	0	.000	.000	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.000	.000	0
* DEFLECTION DUE TO WEIGHT OF SLAB	<b>†</b>	0	.001	.002	.003	.004	.005	.005	.006	.006	.006	.006	.006	.006	.006	.005	.005	.004	.003	.002	.001	0
DEFLECTION DUE TO WEIGHT OF RAIL	<b>†</b>	0	.000	.000	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.000	.000	0
TOTAL DEAD LOAD DEFLECTION	<b>†</b>	0	.001	.002	.005	.006	.007	.007	.008	.008	.008	.008	.008	.008	.008	.007	.007	.006	.005	.002	.001	0
VERTICAL CURVE ORDINATE	<b>A</b>	0	.002	.005	.007	.008	.010	.011	.012	.012	.013	.013	.013	.012	.012	.011	.010	.008	.007	.005	.002	0
SUPERELEVATION ORDINATE	<b>A</b>	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
REQUIRED CAMBER	<b>A</b>	0	½16"	½16"	1/8"	<sup>3</sup> ⁄ <sub>16</sub> "	<sup>3</sup> / <sub>16</sub> "	<sup>3</sup> ⁄16"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	<sup>3</sup> ⁄16"	<sup>3</sup> ⁄16"	<sup>3</sup> ⁄16"	1/8"	½16"	½16"	0

<sup>\*</sup> 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).



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RALEIGH SUPERSTRUCTURE

\_ COUNTY

PROJECT NO. B-5783

STATION: 21+13.32 -NBL-

DAVIDSON

DEAD LOAD DEFLECTION AND GIRDER CAMBER

LICENSURE NO. C-4434

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DRAWN BY: S.D. COOPER DATE: 12-22
CHECKED BY: J.A. BATTS
DESIGN ENGINEER OF RECORD: J.A. BATTS
DATE: 12-22
DATE: 12-22