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	DE	AD L	OAD	DE	FLE	CTI	ON	TAE	LE	FOR	GI	RDE	RS								
		SPAN B																			
										GI	RDER	2 1									
TWENTIETH POINTS	0	.05	.10	<b>.</b> 15	.20	<b>.</b> 25	.30	.35	.40	.45	<b>.</b> 50	<b>.</b> 55	.60	.65	.70	.75	.80	.85	.90	<b>.</b> 95	1.0
DEFLECTION DUE TO WEIGHT OF GIRDER	0	.001	.003	.006	.010	.015	.019	.024	.028	.032	.035	.037	.037	.037	.035	.031	.027	.021	.015	.008	0
*DEFLECTION DUE TO WEIGHT OF SLAB	0	.002	.008	.017	.027	.039	.052	.065	.076	.086	.094	.099	.100	.099	.093	.084	.072	.057	.039	.020	0
DEFLECTION DUE TO WEIGHT OF RAIL & SIDEWALK	0	.001	.003	.006	.010	.014	.018	.022	.026	.029	.031	.033	.033	.032	.031	.028	.024	.019	.013	.007	0
TOTAL DEAD LOAD DEFLECTION	0	.004	.014	.029	.047	.068	.089	.111	.130	.147	.160	<b>.</b> 169	.170	.168	.159	.143	.123	.097	.067	.035	0
VERTICAL CURVE ORDINATE	0	.014	.027	.039	.049	.057	.064	.069	.073	.075	.076	.075	.073	.069	.064	.057	.049	.039	.027	.014	0
REQUIRED CAMBER	0	3/16"	1/2"	13/16"	11/8"	11/2"	113/16"	23/16"	27/16"	2 <sup>11</sup> / <sub>16</sub> "	2 <sup>13</sup> / <sub>16</sub> "	2 <sup>15</sup> / <sub>16</sub> "	2 <sup>15</sup> / <sub>16</sub> "	27/8"	211/16"	23/8"	21/16"	15/8"	11/8"	9/16"	0
		SPAN B																			
										GI	RDER	2									
TWENTIETH POINTS	0	.05	.10	<b>.</b> 15	<b>.</b> 20	<b>.</b> 25	.30	.35	.40	<b>.</b> 45	<b>.</b> 50	<b>.</b> 55	.60	<b>.</b> 65	.70	<b>.</b> 75	.80	<b>.</b> 85	.90	<b>.</b> 95	1.0
DEFLECTION DUE TO WEIGHT OF GIRDER	0	.001	.003	.006	.010	.015	.019	.024	.028	.032	.035	.037	.037	.037	.035	.031	.027	.021	.015	.008	0
*DEFLECTION DUE TO WEIGHT OF SLAB	0	.002	.008	.017	.027	.039	.052	.065	.076	.087	.094	.099	.101	.099	.093	.084	.072	.057	.039	.020	0
DEFLECTION DUE TO WEIGHT OF RAIL & SIDEWALK	0	.001	.003	.005	.008	.012	.015	.019	.022	.025	.027	.028	.028	.028	.026	.023	.020	.016	.011	.006	0
TOTAL DEAD LOAD DEFLECTION	0	.004	.014	.028	.045	.066	.086	.108	.126	.144	.156	.164	.166	.164	.154	.138	.119	.094	.065	.034	0
VERTICAL CURVE ORDINATE	0	.014	.027	.039	.048	.057	.064	.069	.073	.075	.076	.075	.073	.069	.064	.057	.048	.039	.027	.014	0
REQUIRED CAMBER	0	3/16"	1/2"	13/16"	11/8"	11/2"	1 <sup>13</sup> / <sub>16</sub> "	21/8"	23/8"	25/8"	2 <sup>13</sup> / <sub>16</sub> "	2 1/8"	2 1/8"	2 <sup>13</sup> / <sub>16</sub> "	25/8"	2 <sup>5</sup> / <sub>16</sub> "	2"	15/8"	11/8"	9/16"	0
		SPAN B																			
		GIRDER 3																			
TWENTIETH POINTS	0	.05	.10	<b>.</b> 15	<b>.</b> 20	<b>.</b> 25	<b>.</b> 30	<b>.</b> 35	.40	<b>.</b> 45	<b>.</b> 50	<b>.</b> 55	<b>.</b> 60	<b>.</b> 65	.70	<b>.</b> 75	.80	.85	.90	<b>.</b> 95	1.0
DEFLECTION DUE TO WEIGHT OF GIRDER	0	.001	.003	.006	.010	<b>.</b> 015	.019	.024	.028	.032	.035	.037	.037	.037	.035	.031	.027	.021	.015	.008	0
*DEFLECTION DUE TO WEIGHT OF SLAB	0	.002		.017	.028	.039	.052	.065	.076	.087	.094	.099	.101	.099	.093	.084	.072	.057	.040	.020	0
DEFLECTION DUE TO WEIGHT OF RAIL & SIDEWALK	0	.001	.002	.004	.007	.010	.013	.016	.019	.022	.023	.025	.025	.024	.023	.021	.018	.014	.010	.005	0
TOTAL DEAD LOAD DEFLECTION	0	.004	.013	.027	.045	.064	.084	.105	.123	.141	.152	.161	.163	.160	.151	.136	.117	.092	.065	.033	0
VERTICAL CURVE ORDINATE	0	.014	.027	.039	.048	.057	.064	.069	.073	.075	.076	.075	.073	.069	.064	.057	.048	.039	.027	.014	0
																					0
REQUIRED CAMBER	Image: A contract of the contract of t						0														
		SPAN B																			
	GIRDER 4																				
TWENTIETH POINTS	0	.05	.10	.15	.20	<b>.</b> 25	.30	.35	.40	.45	<b>.</b> 50	<b>.</b> 55	.60	.65	.70	.75	.80	.85	.90	.95	1.0
DEFLECTION DUE TO WEIGHT OF GIRDER		.001	.003	.006	.010	.015	.019	.024	.028	.032	.035	.037	.037	.037	.035	.031	.027	.021	.015	.008	0
* DEFLECTION DUE TO WEIGHT OF SLAB		.002	.008	.017	.028	.039	.052	+	.077	.087	.095	.099	.101	.099	.094	.085	.072	.057	.040	.020	0
DEFLECTION DUE TO WEIGHT OF RAIL & SIDEWALK		.000	.002	.003	.005	.007	.009	.011	.013	<b>.</b> 015	.016	.016	.017	.016	<b>.</b> 015	.014	.012	.009	.006	.003	0
TOTAL DEAD LOAD DEFLECTION		.003	.013	.026	.043	.061	.080	.100	.118	.134	.146	<b>.</b> 152	<b>.</b> 155	.152	.144	.130	.111	.087	.061	.031	0
VERTICAL CURVE ORDINATE	0	.014	.027	.039	.048	.057	.064	.069	.073	.075	.076	.075	.073	.069	.064	.057	.048	.039	.027	.014	0
		7,		7,		.7/	. 7/			-1./	-11.4	-7/	-7/	-5'	-1/	-1.4	.15.4	.1.4	.1.7	0.4	0
REQUIRED CAMBER	0	3/16"	1/2"	3/4"	11/16"	1½6″	13/4"	2"	25/16"	21/2"	2 <sup>1</sup> 1/ <sub>16</sub> "	23/4"	23/4"	25/8"	21/2"	21/4"	1 <sup>15</sup> / <sub>16</sub> "	11/2"	1 1/16"	9/16"	0

\* INCLUDES SLAB, BUILDUPS AND STAY-IN-PLACE FORMS ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "REQUIRED CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PLANS PREPARED BY: MPSON
NGINEERS
SSOCIATES

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(919) 852-0598 (Fax)
www.simpsonengr.com LICENSURE NO. C-2521

2/13/2017

PROJECT NO. U-3109A ALAMANCE \_\_\_ COUNTY STATION: 26+54.73 -NBL-

SHEET 3 OF 4

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUPERSTRUCTURE

DEAD LOAD DEFLECTION AND GIRDER CAMBER

		SHEET NO.				
ю.	BY:	DATE:	NO.	BY:	DATE:	S01-19
1			3			TOTAL SHEETS
2			4			S01-49

DRAWN BY: S. D. COOPER CHECKED BY: B.S. COX DATE: 5-15
DATE: 5-15
DATE: 5-15 T.J. BEACH DESIGN ENGINEER OF RECORD: \_\_\_