

1/14/2020 10:06:20 AM G:\Projects\2017\I-5711\Structures\Drawings\Final\401-I5711-SMJ\_DL\_000177.dgn

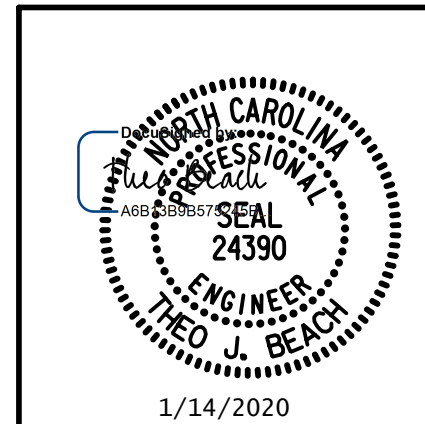
DEAD LOAD DEFLECTION TABLE FOR GIRDERS												
SPAN D												
0.6" Ø LOW RELAXATION GIRDER 1 & 10												
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0	.001	.002	.003	.004	.004	.004	.003	.002	.001	0
*DEFLECTION DUE TO WEIGHT OF SLAB	↓	0	.001	.004	.006	.008	.009	.008	.006	.004	.001	0
DEFLECTION DUE TO WEIGHT OF RAIL AND SIDEWALK	↓	0	.001	.002	.003	.004	.005	.004	.003	.002	.001	0
TOTAL DEAD LOAD DEFLECTION	↓	0	.003	.008	.012	.016	.018	.016	.012	.008	.003	0
VERTICAL CURVE ORDINATE	↑	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
REQUIRED CAMBER	↑	0	1/16"	1/8"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	0
SPAN D												
0.6" Ø LOW RELAXATION GIRDER 2 & 9												
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0	.001	.002	.003	.004	.004	.004	.003	.002	.001	0
*DEFLECTION DUE TO WEIGHT OF SLAB	↓	0	.001	.004	.007	.009	.010	.009	.007	.004	.001	0
DEFLECTION DUE TO WEIGHT OF RAIL AND SIDEWALK	↓	0	.001	.002	.003	.003	.004	.003	.003	.002	.001	0
TOTAL DEAD LOAD DEFLECTION	↓	0	.003	.008	.013	.016	.018	.016	.013	.008	.003	0
VERTICAL CURVE ORDINATE	↑	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
REQUIRED CAMBER	↑	0	1/16"	1/8"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	0
SPAN D												
0.6" Ø LOW RELAXATION GIRDER 3 & 8												
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0	.001	.002	.003	.004	.004	.004	.003	.002	.001	0
*DEFLECTION DUE TO WEIGHT OF SLAB	↓	0	.002	.004	.007	.009	.010	.009	.007	.004	.002	0
DEFLECTION DUE TO WEIGHT OF RAIL AND SIDEWALK	↓	0	.000	.001	.002	.003	.003	.003	.002	.001	.000	0
TOTAL DEAD LOAD DEFLECTION	↓	0	.003	.007	.012	.016	.017	.016	.012	.007	.003	0
VERTICAL CURVE ORDINATE	↑	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
REQUIRED CAMBER	↑	0	1/16"	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/16"	1/16"	0
SPAN D												
0.6" Ø LOW RELAXATION GIRDER 4 & 7												
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0	.001	.002	.003	.004	.004	.004	.003	.002	.001	0
*DEFLECTION DUE TO WEIGHT OF SLAB	↓	0	.002	.004	.007	.009	.010	.009	.007	.004	.002	0
DEFLECTION DUE TO WEIGHT OF RAIL AND SIDEWALK	↓	0	.000	.001	.001	.001	.001	.001	.001	.001	.000	0
TOTAL DEAD LOAD DEFLECTION	↓	0	.003	.007	.011	.014	.015	.014	.011	.007	.003	0
VERTICAL CURVE ORDINATE	↑	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
REQUIRED CAMBER	↑	0	1/16"	1/16"	1/8"	3/16"	3/16"	3/16"	1/8"	1/16"	1/16"	0
SPAN D												
0.6" Ø LOW RELAXATION GIRDER 5 & 6												
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	
DEFLECTION DUE TO WEIGHT OF GIRDER	↓	0	.001	.002	.003	.004	.004	.004	.003	.002	.001	0
*DEFLECTION DUE TO WEIGHT OF SLAB	↓	0	.001	.004	.006	.008	.009	.008	.006	.004	.001	0
DEFLECTION DUE TO WEIGHT OF RAIL AND SIDEWALK	↓	0	.000	.000	.001	.001	.001	.001	.001	.000	.000	0
TOTAL DEAD LOAD DEFLECTION	↓	0	.002	.006	.010	.013	.014	.013	.010	.006	.002	0
VERTICAL CURVE ORDINATE	↑	0	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
REQUIRED CAMBER	↑	0	0	1/16"	1/8"	1/8"	3/16"	1/8"	1/8"	1/16"	0	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).

PROJECT NO. I-5711  
ALAMANCE COUNTY  
 STATION: STA. 27+02.26 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
**DEAD LOAD DEFLECTION  
 AND GIRDER CAMBER  
 (SPAN D)**  
 (LEFT & RIGHT WIDENING)



PLANS PREPARED BY:  
**SIMPSON**  
 ENGINEERS  
 & ASSOCIATES  
 5640 Dillard Drive  
 Suite 200  
 Cary, NC 27518  
 (919) 852-0468  
 (919) 852-0538 (Fax)  
 www.simpsonengr.com  
 LICENSURE NO. C-2521

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-27
1			3			TOTAL SHEETS
2			4			89

**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

DRAWN BY: S.D. COOPER DATE: 1-20  
 CHECKED BY: T. BEACH DATE: 1-20  
 DESIGN ENGINEER OF RECORD: T. BEACH DATE: 1-20