

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
		GIRDER #1																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER ↓	0	0.026	0.051	0.074	0.095	0.113	0.129	0.141	0.150	0.156	0.157	0.156	0.150	0.141	0.129	0.113	0.095	0.074	0.051	0.026	0	
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0	0.092	0.172	0.247	0.315	0.374	0.424	0.464	0.494	0.512	0.518	0.512	0.494	0.464	0.424	0.374	0.315	0.247	0.172	0.092	0	
DEFLECTION DUE TO WEIGHT OF PARAPET AND SIDEWALK ↓	0	0.017	0.033	0.048	0.061	0.073	0.083	0.091	0.097	0.101	0.102	0.101	0.097	0.091	0.083	0.073	0.061	0.048	0.033	0.017	0	
TOTAL DEAD LOAD DEFLECTION ↓	0	0.134	0.256	0.369	0.471	0.560	0.636	0.696	0.741	0.768	0.777	0.768	0.741	0.696	0.636	0.560	0.471	0.369	0.256	0.134	0	
VERTICAL CURVE ORDINATE ↑	0	0.105	0.199	0.282	0.354	0.415	0.464	0.503	0.531	0.547	0.553	0.547	0.531	0.503	0.464	0.415	0.354	0.282	0.199	0.105	0	
REQUIRED CAMBER ↑	0	2 7/8"	5 7/16"	7 13/16"	9 7/8"	11 11/16"	13 3/16"	14 3/8"	15 1/4"	15 3/4"	15 5/16"	15 3/4"	15 1/4"	14 3/8"	13 3/16"	11 11/16"	9 7/8"	7 13/16"	5 7/16"	2 7/8"	0	

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
		GIRDER #2																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER ↓	0	0.026	0.051	0.074	0.095	0.113	0.129	0.141	0.150	0.156	0.157	0.156	0.150	0.141	0.129	0.113	0.095	0.074	0.051	0.026	0	
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0	0.090	0.168	0.242	0.307	0.365	0.414	0.453	0.482	0.499	0.505	0.499	0.482	0.453	0.414	0.365	0.307	0.242	0.168	0.090	0	
DEFLECTION DUE TO WEIGHT OF PARAPET AND SIDEWALK ↓	0	0.012	0.024	0.034	0.044	0.052	0.059	0.065	0.069	0.072	0.072	0.072	0.069	0.065	0.059	0.052	0.044	0.034	0.024	0.012	0	
TOTAL DEAD LOAD DEFLECTION ↓	0	0.127	0.243	0.350	0.446	0.530	0.602	0.659	0.701	0.726	0.735	0.726	0.701	0.659	0.602	0.530	0.446	0.350	0.243	0.127	0	
VERTICAL CURVE ORDINATE ↑	0	0.105	0.199	0.282	0.354	0.415	0.464	0.503	0.531	0.547	0.553	0.547	0.531	0.503	0.464	0.415	0.354	0.282	0.199	0.105	0	
REQUIRED CAMBER ↑	0	2 13/16"	5 5/16"	7 9/16"	9 9/16"	11 5/16"	12 13/16"	13 5/16"	14 3/4"	15 5/16"	15 7/16"	15 5/16"	14 3/4"	13 5/16"	12 13/16"	11 5/16"	9 9/16"	7 9/16"	5 5/16"	2 13/16"	0	

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
		GIRDER #3																				
TWENTIETH POINTS		0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
DEFLECTION DUE TO WEIGHT OF GIRDER ↓	0	0.026	0.051	0.074	0.095	0.113	0.129	0.141	0.150	0.156	0.157	0.156	0.150	0.141	0.129	0.113	0.095	0.074	0.051	0.026	0	
DEFLECTION DUE TO WEIGHT OF SLAB * ↓	0	0.088	0.164	0.236	0.300	0.356	0.404	0.442	0.470	0.487	0.493	0.487	0.470	0.442	0.404	0.356	0.300	0.236	0.164	0.088	0	
DEFLECTION DUE TO WEIGHT OF PARAPET AND SIDEWALK ↓	0	0.008	0.016	0.024	0.030	0.036	0.041	0.045	0.048	0.050	0.050	0.050	0.048	0.045	0.041	0.036	0.030	0.024	0.016	0.008	0	
TOTAL DEAD LOAD DEFLECTION ↓	0	0.122	0.232	0.334	0.425	0.505	0.574	0.628	0.668	0.692	0.700	0.692	0.668	0.628	0.574	0.505	0.425	0.334	0.232	0.122	0	
VERTICAL CURVE ORDINATE ↑	0	0.105	0.199	0.282	0.354	0.415	0.464	0.503	0.531	0.547	0.553	0.547	0.531	0.503	0.464	0.415	0.354	0.282	0.199	0.105	0	
REQUIRED CAMBER ↑	0	2 3/4"	5 3/16"	7 3/8"	9 5/16"	11 1/16"	12 7/16"	13 9/16"	14 3/8"	14 7/8"	15 1/16"	14 7/8"	14 3/8"	13 9/16"	12 7/16"	11 1/16"	9 5/16"	7 3/8"	5 3/16"	2 3/4"	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).
 FABRICATORS SHALL DETAIL DIAPHRAGM MEMBERS AND CONNECTIONS FOR STEEL DEAD LOAD FIT UP.

PROJECT NO. B-4490
CUMBERLAND COUNTY
 STATION: 29+57.01 -L-

SHEET 1 OF 3



DocuSigned by:
 3/29/2016

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 DEAD LOAD
 DEFLECTIONS

DRAWN BY : A. SORSENGINH DATE : 5/2015
 CHECKED BY : J.P. ADAMS DATE : 6/2015
 DESIGN ENGINEER OF RECORD : A. SORSENGINH DATE : 9/2015

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-13	
1			3			TOTAL SHEETS	
2			4			84	