

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
TWENTIETH POINTS BETWEEN \odot GIRDER	SPAN "A"																				
	GIRDER #3																				
	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	0.000	0.005	0.009	0.012	0.015	0.018	0.019	0.020	0.020	0.019	0.018	0.016	0.014	0.011	0.009	0.006	0.004	0.002	0.000	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.021	0.040	0.055	0.069	0.080	0.087	0.091	0.090	0.086	0.080	0.072	0.061	0.048	0.036	0.025	0.015	0.006	0.001	0.001	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL AND SIDEWALK	0.000	0.003	0.005	0.007	0.008	0.010	0.011	0.011	0.011	0.011	0.010	0.009	0.008	0.007	0.005	0.004	0.002	0.001	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.028	0.053	0.074	0.093	0.107	0.117	0.122	0.121	0.117	0.109	0.098	0.083	0.065	0.049	0.035	0.021	0.009	0.002	0.001	0.000
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	5/16"	5/8"	7/8"	1 1/8"	1 1/4"	1 1/2"	1 3/8"	1 1/2"	1 1/2"	1 1/2"	1 3/8"	1 3/8"	1"	1 3/16"	9/16"	7/16"	1/4"	1/8"	0	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
TWENTIETH POINTS BETWEEN \odot GIRDER	SPAN "B"																				
	GIRDER #3																				
	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	0.000	0.002	0.005	0.009	0.014	0.019	0.024	0.029	0.034	0.037	0.040	0.041	0.041	0.040	0.038	0.034	0.029	0.023	0.016	0.008	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.009	0.022	0.037	0.057	0.078	0.100	0.124	0.144	0.160	0.171	0.177	0.178	0.175	0.167	0.151	0.129	0.102	0.071	0.037	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL AND SIDEWALK	0.000	0.001	0.003	0.005	0.007	0.010	0.012	0.015	0.017	0.019	0.020	0.021	0.021	0.020	0.019	0.017	0.015	0.011	0.008	0.004	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.012	0.030	0.051	0.078	0.106	0.135	0.168	0.195	0.216	0.230	0.238	0.240	0.235	0.223	0.202	0.173	0.136	0.095	0.050	0.000
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	1/8"	3/8"	5/8"	1 5/16"	1 1/4"	1 5/8"	2"	2 5/16"	2 9/16"	2 3/4"	2 7/8"	2 7/8"	2 13/16"	2 11/16"	2 7/16"	2 1/16"	1 5/8"	1 1/8"	5/8"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
TWENTIETH POINTS BETWEEN \odot GIRDER	SPAN "A"																				
	GIRDER #4																				
	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	0.000	0.005	0.009	0.013	0.016	0.018	0.020	0.021	0.021	0.020	0.019	0.017	0.015	0.012	0.009	0.007	0.004	0.002	0.000	0.000	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.022	0.041	0.057	0.070	0.081	0.089	0.093	0.093	0.090	0.083	0.073	0.062	0.050	0.037	0.027	0.017	0.008	0.001	0.001	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL AND SIDEWALK	0.000	0.003	0.005	0.007	0.009	0.010	0.011	0.012	0.012	0.012	0.011	0.010	0.009	0.007	0.005	0.004	0.003	0.002	0.000	0.000	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.029	0.055	0.076	0.094	0.109	0.119	0.125	0.126	0.122	0.113	0.100	0.086	0.068	0.052	0.037	0.024	0.012	0.002	0.001	0.000
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	3/8"	5/8"	1 5/16"	1 1/8"	1 5/16"	1 7/16"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 3/8"	1 3/8"	1"	1 3/16"	5/8"	7/16"	5/16"	1/8"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																					
TWENTIETH POINTS BETWEEN \odot GIRDER	SPAN "B"																				
	GIRDER #4																				
	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	0.000	0.002	0.005	0.009	0.013	0.018	0.023	0.028	0.032	0.036	0.038	0.040	0.040	0.039	0.037	0.034	0.029	0.023	0.016	0.008	0.000
DEFLECTION DUE TO WEIGHT OF SLAB *	0.000	0.008	0.021	0.036	0.054	0.075	0.096	0.116	0.135	0.150	0.164	0.172	0.173	0.170	0.161	0.146	0.126	0.099	0.068	0.036	0.000
DEFLECTION DUE TO WEIGHT OF BARRIER RAIL AND SIDEWALK	0.000	0.001	0.003	0.005	0.007	0.009	0.012	0.014	0.016	0.018	0.019	0.020	0.020	0.020	0.018	0.017	0.014	0.011	0.008	0.004	0.000
TOTAL DEAD LOAD DEFLECTION	0.000	0.011	0.029	0.050	0.074	0.102	0.130	0.158	0.183	0.204	0.221	0.232	0.234	0.228	0.216	0.196	0.169	0.133	0.091	0.048	0.000
VERTICAL CURVE ORDINATE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
REQUIRED CAMBER	0	1/8"	3/8"	5/8"	7/8"	1 1/4"	1 9/16"	1 7/8"	2 3/16"	2 7/16"	2 11/16"	2 13/16"	2 13/16"	2 3/4"	2 5/8"	2 3/8"	2"	1 5/8"	1 1/16"	9/16"	0

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

PROJECT NO. U-0620
CUMBERLAND COUNTY
 STATION: 161+95.29 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUPERSTRUCTURE
 STRUCTURAL
 STEEL DETAILS
 DEFLECTION TABLES
 (LEFT LANE)



DRAWN BY : M. G. SHAIKH DATE : 6-29-04
 CHECKED BY : G. M. PATTERSON DATE : 9-9-04

09-SEP-2004 09:10
 W:\squad\U0620\Str2and3\mshalkh\lmcrostation\STR *2\U-0620.sd.SS.02.dgn
 mshalkh

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

64B
 TOTAL SHEETS
 129