

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL SHALL BE GRADE 60.

EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

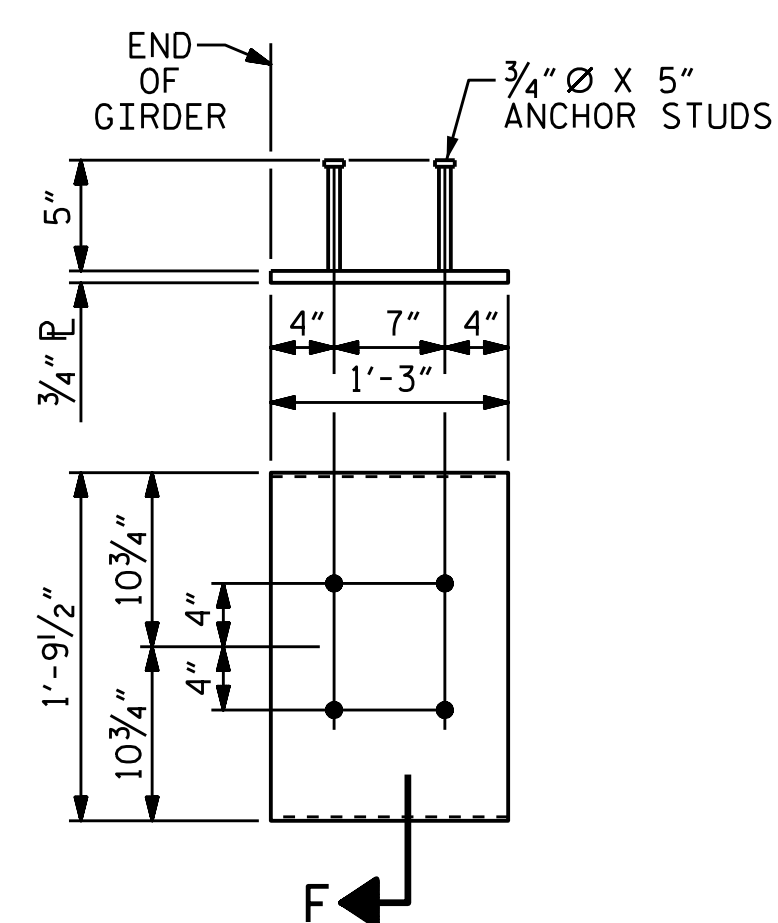
ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.

AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI. FOR SPAN A, 6,400 PSI. FOR SPAN B, AND 6,400 PSI. FOR SPAN C.

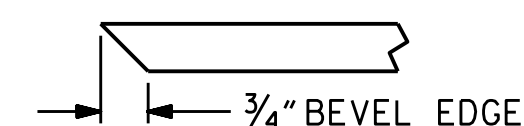
DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.

THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4".



EMBEDDED PLATE "B-1" DETAILS FOR AASHTO TYPE III GIRDER

(2 REQ'D PER GIRDER)



SECTION "F"

(SEE NOTES)

DEAD LOAD DEFLECTION TABLE FOR SPAN A											
0.6" LOW RELAXATION	GIRDER 2,3,&4										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.020	0.038	0.052	0.061	0.064	0.061	0.052	0.038	0.020	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.010	0.019	0.026	0.030	0.032	0.030	0.026	0.019	0.010	0.0
FINAL CAMBER ↑	0.0	1/8"	1/4"	5/16"	3/8"	3/8"	3/8"	5/16"	1/4"	1/8"	0.0

DEAD LOAD DEFLECTION TABLE FOR SPAN A											
0.6" LOW RELAXATION	GIRDER 1,5										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.020	0.038	0.052	0.061	0.064	0.061	0.052	0.038	0.020	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.009	0.017	0.023	0.027	0.029	0.027	0.023	0.017	0.009	0.0
FINAL CAMBER ↑	0.0	1/8"	1/4"	3/8"	7/16"	7/16"	7/16"	3/8"	1/4"	1/8"	0.0

DEAD LOAD DEFLECTION TABLE FOR SPAN B											
0.6" LOW RELAXATION	GIRDER 2,3,&4										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.055	0.104	0.142	0.166	0.175	0.166	0.142	0.104	0.055	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.039	0.073	0.100	0.117	0.123	0.117	0.100	0.073	0.039	0.0
FINAL CAMBER ↑	0.0	3/16"	3/8"	1/2"	9/16"	3/4"	9/16"	1/2"	3/8"	3/16"	0.0

DEAD LOAD DEFLECTION TABLE FOR SPAN B											
0.6" LOW RELAXATION	GIRDER 1 & 5										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.055	0.104	0.142	0.166	0.175	0.166	0.142	0.104	0.055	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.035	0.066	0.091	0.106	0.112	0.106	0.091	0.066	0.035	0.0
FINAL CAMBER ↑	0.0	1/4"	7/16"	5/8"	3/4"	3/4"	3/4"	5/8"	7/16"	1/4"	0.0

DEAD LOAD DEFLECTION TABLE FOR SPAN C											
0.6" LOW RELAXATION	GIRDER 2,3,&4										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.051	0.096	0.131	0.154	0.161	0.154	0.131	0.096	0.051	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.029	0.054	0.074	0.087	0.092	0.087	0.074	0.054	0.029	0.0
FINAL CAMBER ↑	0.0	1/4"	1/2"	11/16"	13/16"	13/16"	13/16"	11/16"	1/2"	1/4"	0.0

DEAD LOAD DEFLECTION TABLE FOR SPAN C											
0.6" LOW RELAXATION	GIRDER 1 & 5										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.051	0.096	0.131	0.154	0.161	0.154	0.131	0.096	0.051	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.026	0.049	0.068	0.079	0.083	0.079	0.068	0.049	0.026	0.0
FINAL CAMBER ↑	0.0	1/4"	9/16"	3/4"	7/8"	15/16"	7/8"	3/4"	9/16"	1/4"	0.0

* INCLUDES FUTURE WEARING SURFACE
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

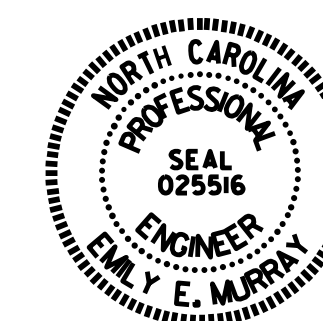
ASSEMBLED BY : M.D.PISO DATE : 6-30-2015
CHECKED BY : N.RUFFIN DATE : 8-21-2015

DRAWN BY : ELR 11/91 MAA/GM
CHECKED BY : GRP 11/91 REV. 1/15 MAA/TMG
REV. 2/15 MAA/TMG

DESIGN ENGINEER OF RECORD:
G. KOUCHEKI DATE : 3/14/16

27-APR-2016 07:35
R:\Structures\Plans\MDP\B-4761.SD.DL.dgn
jkbowles

PROJECT NO. B-4761
HALIFAX COUNTY
STATION: 20+11.00 -L-



DocuSigned by:
Emily E. Murray
4/27/2016

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
DETAILS

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-14	
1			3			TOTAL SHEETS 31	
2			4				