

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.

APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN ELEVATION VIEW.

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 END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH 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 6700 PSI FOR SPANS A AND B, 4000 PSI FOR SPAN C.

THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4", EXCEPT AS NOTED ON THE PLANS.

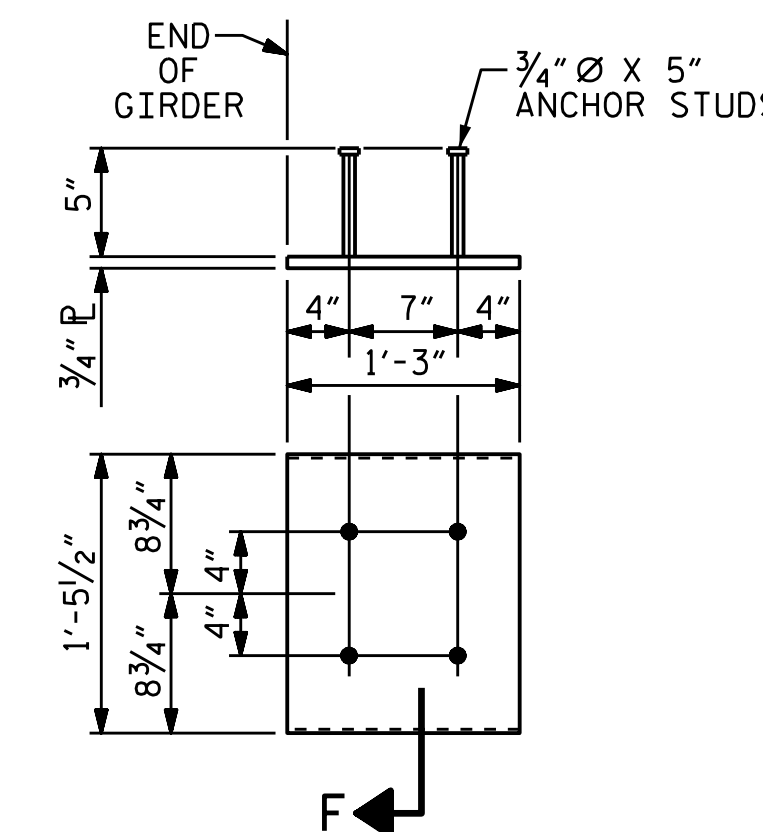
PRESTRESSED CONCRETE GIRDERS ARE DESIGNED FOR 0 PSI TENSION IN THE PRECOMPRESSED TENSILE ZONE UNDER ALL LOADING CONDITIONS.

PRESTRESSED CONCRETE GIRDERS SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

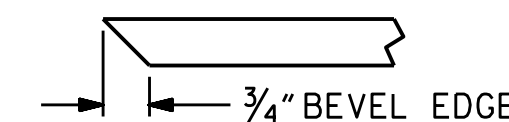
FOR EMBEDDED CLIPS FOR PRESTRESSED CONCRETE GIRDERS, SEE SPECIAL PROVISIONS.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS											
SPAN A											
0.6" Ø LOW RELAXATION	GIRDERS 1 & 4										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER ( GIRDER ALONE IN PLACE ) ↑	0	0.028	0.053	0.072	0.085	0.089	0.085	0.072	0.053	0.028	0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.014	0.027	0.037	0.044	0.046	0.044	0.037	0.027	0.014	0
FINAL CAMBER ↑	0	3/16"	5/16"	7/16"	1/2"	1/2"	1/2"	7/16"	5/16"	3/16"	0
SPAN A											
0.6" Ø LOW RELAXATION	GIRDERS 2 & 3										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER ( GIRDER ALONE IN PLACE ) ↑	0	0.028	0.053	0.072	0.085	0.089	0.085	0.072	0.053	0.028	0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.017	0.032	0.044	0.051	0.054	0.051	0.044	0.032	0.017	0
FINAL CAMBER ↑	0	1/8"	1/4"	5/16"	3/8"	7/16"	3/8"	5/16"	1/4"	1/8"	0
SPAN B											
0.6" Ø LOW RELAXATION	GIRDERS 1 & 4										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER ( GIRDER ALONE IN PLACE ) ↑	0	0.024	0.045	0.061	0.071	0.075	0.071	0.061	0.045	0.024	0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.010	0.019	0.026	0.030	0.032	0.030	0.026	0.019	0.010	0
FINAL CAMBER ↑	0	3/16"	5/16"	7/16"	1/2"	1/2"	1/2"	7/16"	5/16"	3/16"	0
SPAN B											
0.6" Ø LOW RELAXATION	GIRDERS 2 & 3										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER ( GIRDER ALONE IN PLACE ) ↑	0	0.024	0.045	0.061	0.071	0.075	0.071	0.061	0.045	0.024	0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.012	0.022	0.030	0.035	0.037	0.035	0.030	0.022	0.012	0
FINAL CAMBER ↑	0	1/8"	1/4"	3/8"	7/16"	7/16"	7/16"	3/8"	1/4"	1/8"	0
SPAN C											
0.6" Ø LOW RELAXATION	GIRDERS 1 & 4										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER ( GIRDER ALONE IN PLACE ) ↑	0	0.003	0.006	0.008	0.009	0.009	0.009	0.008	0.006	0.003	0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.001	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.001	0
FINAL CAMBER ↑	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0
SPAN C											
0.6" Ø LOW RELAXATION	GIRDERS 2 & 3										
TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER ( GIRDER ALONE IN PLACE ) ↑	0	0.003	0.006	0.008	0.009	0.009	0.009	0.008	0.006	0.003	0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0	0.001	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.001	0
FINAL CAMBER ↑	0	0	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	0	0

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



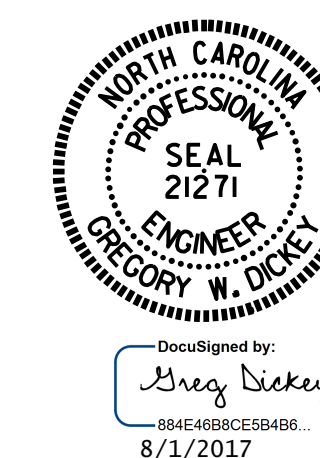
EMBEDDED PLATE "B-1" DETAILS FOR AASHTO TYPE II GIRDER  
(2 REQ'D PER GIRDER)



SECTION "F"  
(SEE NOTES)

PROJECT NO. B-5236  
NEW HANOVER COUNTY  
STATION: 15+64.40 -L-

SHEET 4 OF 4



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
STANDARD PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD DETAILS					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED					TOTAL SHEETS 35

DESIGN ENGINEER OF RECORD: A. K. PATEL	DATE : 06/17
ASSEMBLED BY : William J. Parker	DATE : 07/16
CHECKED BY : J. P. ADAMS	DATE : 08/16
DRAWN BY : ELR 11/91	REV. 10/1/11 MAA/GM
CHECKED BY : GRP 11/91	REV. 1/15 MAA/TMG
	REV. 2/15 MAA/TMG