

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. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

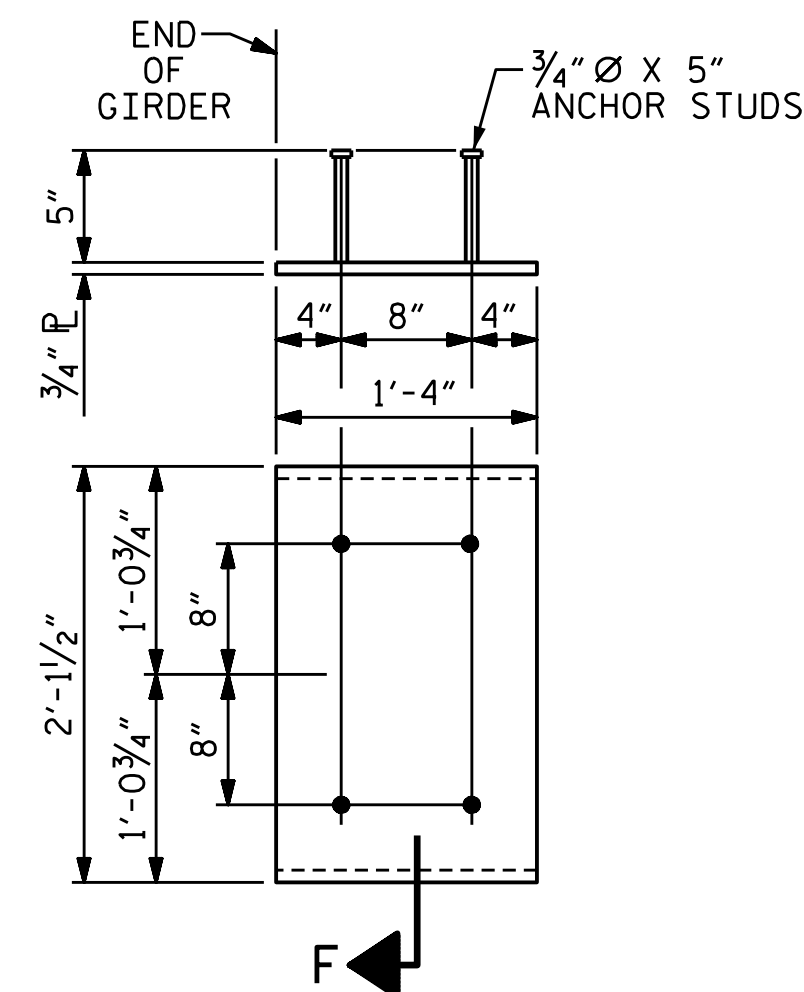
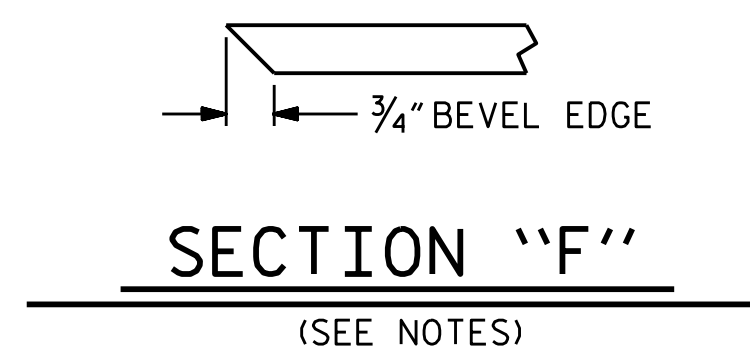
THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI IN SPANS A AND C OR 6800 PSI IN SPAN B.

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

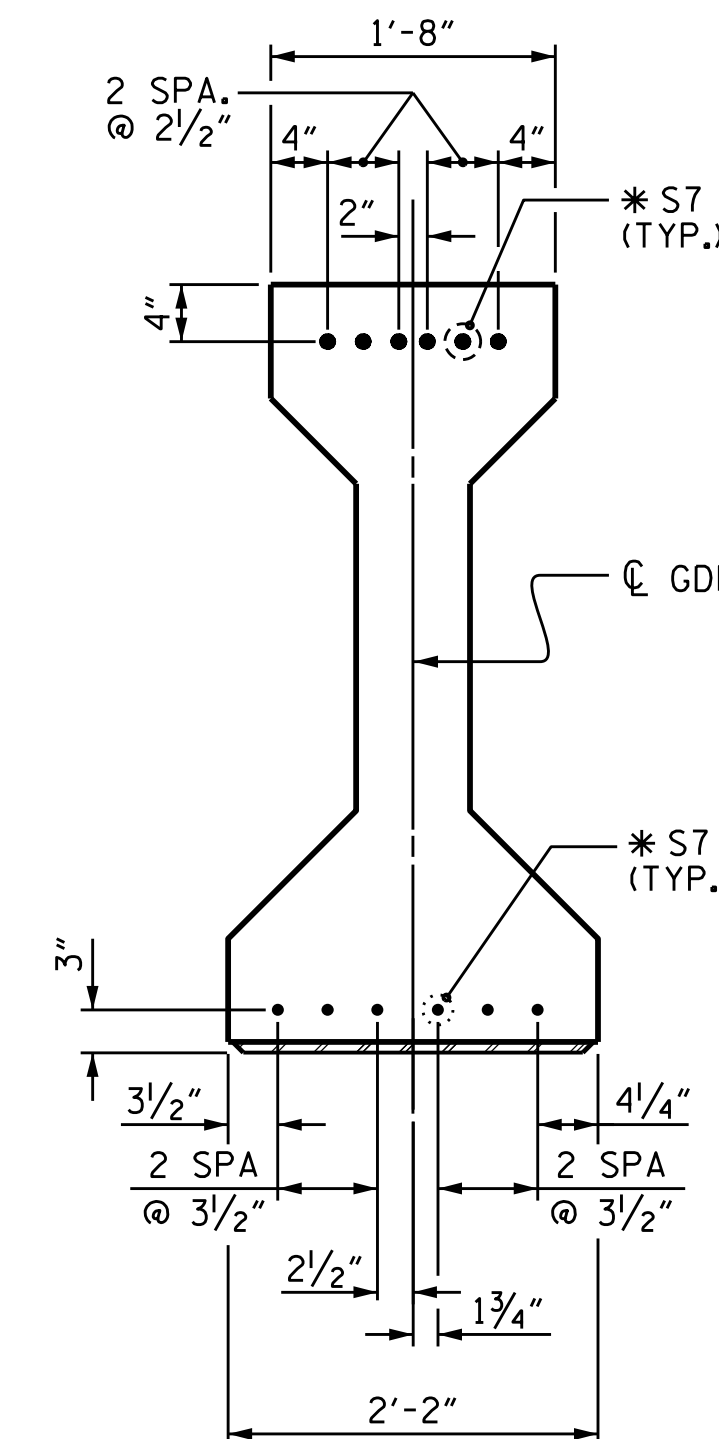
THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4", EXCEPT WHERE SHOWN IN "PLAN OF GIRDER."

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
0.6" Ø LOW RELAXATION	SPAN A (INTERIOR OR EXTERIOR)										SPAN C (INTERIOR OR EXTERIOR)											
	TENTH POINTS	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.007	0.013	0.017	0.020	0.021	0.020	0.017	0.013	0.007	0.000	0.000	0.006	0.011	0.015	0.017	0.018	0.017	0.015	0.011	0.006	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.001	0.003	0.005	0.006	0.006	0.006	0.005	0.003	0.001	0.000	0.000	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.001	0.000
FINAL CAMBER ↑	0	1/16"	1/8"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	0	0	1/16"	1/8"	1/8"	3/16"	3/16"	3/16"	1/8"	1/8"	1/16"	0
0.6" Ø LOW RELAXATION	SPAN B (INTERIOR GIRDER)																					
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.046	0.090	0.132	0.171	0.205	0.234	0.257	0.274	0.284	0.287	0.284	0.274	0.257	0.234	0.205	0.171	0.132	0.090	0.046	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.043	0.081	0.126	0.159	0.195	0.221	0.244	0.260	0.270	0.273	0.270	0.260	0.244	0.221	0.195	0.159	0.126	0.081	0.043	0.000	
FINAL CAMBER ↑	0	1/16"	1/8"	1/8"	1/8"	1/8"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	1/8"	1/8"	1/8"	1/8"	1/16"	0	
0.6" Ø LOW RELAXATION	SPAN B (EXTERIOR GIRDER)																					
	TWENTIETH POINTS	0	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.046	0.090	0.132	0.171	0.205	0.234	0.257	0.274	0.284	0.287	0.284	0.274	0.257	0.234	0.205	0.171	0.132	0.090	0.046	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.040	0.074	0.115	0.145	0.177	0.201	0.223	0.237	0.246	0.249	0.246	0.237	0.223	0.201	0.177	0.145	0.115	0.074	0.040	0.000	
FINAL CAMBER ↑	0	1/16"	3/16"	3/16"	5/16"	5/16"	3/8"	7/16"	7/16"	7/16"	7/16"	7/16"	7/16"	7/16"	3/8"	5/16"	5/16"	3/16"	3/16"	1/16"	0	

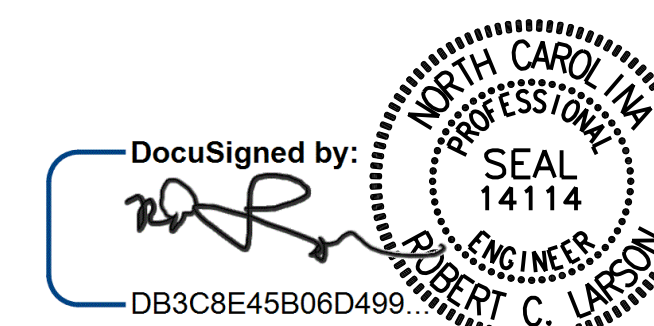
* INCLUDES FUTURE WEARING SURFACE
ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).



EMBEDDED PLATE "B-1" DETAILS
(2 REQ'D PER GIRDER)



DETAIL "A"
(FOR AASHTO TYPE IV GIRDERS)



PROJECT NO. B-5666
WILSON COUNTY
STATION: 17+37.36 -L-

SHEET 3 OF 3
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
PRESTRESSED CONCRETE GIRDER
DETAILS

KCI JOB NO: 251801945.22

DESIGN ENGINEER OF RECORD	DocuSigned by: [Signature]	DATE: 2/16/2021
ASSEMBLED BY: R. C. LARSON	DATE: 12/20/19	
CHECKED BY: A. K. ALLANKI	DATE: 12/23/19	
DRAWN BY: ELR 11/91	REV. 1/15 MAA/TMG	
CHECKED BY: GRP 11/91	REV. 2/15 MAA/TMG	
	REV. 12/17 MAA/THC	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-11
1			3			TOTAL SHEETS
2			4			30