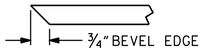
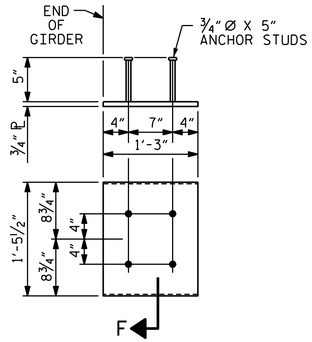


SECTION "F"

(SEE NOTES)



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

(2 REQ'D PER GIRDER)

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 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 6500 PSI.

THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF ¼", 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.

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6"Ø LOW RELAXATION STRANDS	SPAN A GIRDERS 1 & 5												SPANS A GIRDERS 2 - 4											
TENTH POINTS		℄ BRG.	.1	.2	.3	.4	.5	.6	.7	.8	.9	℄ BRG.		℄ BRG.	.1	.2	.3	.4	.5	.6	.7	.8	.9	℄ BRG.
CAMBER (GIRDER ALONE IN PLACE)	↑	.000	.015	.028	.039	.045	.048	.045	.039	.028	.015	.000	↑	.000	.015	.028	.038	.045	.047	.045	.038	.028	.015	.000
✱ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	.000	.008	.017	.023	.028	.029	.028	.023	.017	.008	.000	↓	.000	.008	.017	.023	.027	.029	.027	.023	.016	.008	.000
FINAL CAMBER	↑	0	1/16"	1/8"	3/16"	3/16"	1/4"	3/16"	3/16"	1/8"	1/16"	0	↑	0	1/16"	1/8"	3/16"	3/16"	1/4"	3/16"	3/16"	1/8"	1/16"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS

0.6"Ø LOW RELAXATION STRANDS	SPANS B & C GIRDERS 1 - 5												SPANS B & C GIRDERS 2 - 4											
TENTH POINTS		℄ BRG.	.1	.2	.3	.4	.5	.6	.7	.8	.9	℄ BRG.		℄ BRG.	.1	.2	.3	.4	.5	.6	.7	.8	.9	℄ BRG.
CAMBER (GIRDER ALONE IN PLACE)	↑	.000	.037	.069	.095	.111	.117	.111	.095	.069	.037	.000	↑	.000	.036	.069	.094	.111	.116	.111	.094	.069	.036	.000
✱ DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	.000	.019	.038	.053	.062	.066	.062	.053	.038	.019	.000	↓	.000	.019	.038	.053	.062	.065	.062	.053	.038	.019	.000
FINAL CAMBER	↑	0	3/16"	3/8"	1/2"	9/16"	5/8"	9/16"	1/2"	3/8"	3/16"	0	↑	0	3/16"	3/8"	1/2"	9/16"	5/8"	9/16"	1/2"	3/8"	3/16"	0

✱ INCLUDES FUTURE WEARING SURFACE
ALL VALUES ARE SHOWN IN FEET, EXCEPT "FINAL CAMBER" WHICH IS SHOWN IN INCHES.

PROJECT NO. B-4414
BEAUFORT COUNTY
STATION: 24+78.90 -L-

SHEET 4 OF 5

ASSEMBLED BY :	STM	DATE :	05/19
CHECKED BY :	MGC	DATE :	11/19
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

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL C. CHEEK, JR.
Marshall C. Cheek Jr.
5FBCC2F3A4DC413...
2/8/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
706 HILLSBOROUGH STREET
SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

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:	S-14
1			3			TOTAL SHEETS
2			4			33

STD. NO. PCG9 (Sht. 1)

10/5/2020
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User:smassinople