



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

DEAD LOAD DEFLECTION TABLE FOR GIRDERS - SPANS A, B & C																					
0.6"Ø LOW RELAXATION	GIRDERS 1 - 10																				
TWENTIETH POINTS	0	.05	.1	. 15	.2	.25	.3	.35	.4	.45	. 5	. 55	.6	.65	.7	.75	.8	.85	.9	. 95	1.0
CAMBER (GIRDER ALONE IN PLACE)	0.0	0.017	0.034	0.050	0.064	0.077	0.088	0.097	0.103	0.107	0.109	0.107	0.103	0.097	0.088	0.077	0.064	0.050	0.034	0.017	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	0.006	0.012	0.018	0.025	0.029	0.034	0.037	0.040	0.041	0.043	0.041	0.040	0.037	0.034	0.029	0.025	0.018	0.012	0.006	0.0
FINAL CAMBER	0.0	1/8"	1/4"	3/8"	1/2"	⁹ ∕ ₁₆ ″	5/8"	¹¹ / ₁₆ "	3/4"	13/16"	13/16"	13/16"	3/4"	11/16"	5/8"	9/16"	1/2"	3/8"	1/4"	1/8"	0.0

* INCLUDES FUTURE WEARING SURFACE.

ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT ''FINAL CAMBER'', WHICH IS GIVEN IN INCHES (FRACTION FORM).

> U-5839 PROJECT NO.__ HAYWOOD COUNTY STATION: 31+45.00 -L- POT

SHEET 3 OF 4

ocuSigned by:

5/19/2023

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

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

APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN

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

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.

CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 5000 PSI.

THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4" AND LINK SLAB

ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN

DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET

IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL SHALL BE GRADE 60.

ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.

REGIONS, SHALL BE RAKED TO A DEPTH OF 1/4".

ELEVATION VIEW.

SPECIFICATIONS.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE

PRESTRESSED CONCRETE GIRDER DETAILS

REVISIONS S2-20 NO. BY: DATE: DATE: TOTAL SHEETS

PLANS PREPARED BY: NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912

DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**

W.B.ALLEN DRAWN BY: ____ CHECKED BY: Z.H.BROWN DATE: 7/19
DESIGN ENGINEER OF RECORD: R.C.LARSON DATE: 2/23

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