

### DEAD LOAD DEFLECTION TABLE FOR GIRDERS OF SPAN A

0.6" ø LOW RELAXATION		GIRDER 1																			
40TH POINTS	0.000	0.025	0.05	0.075	0.10	0.125	0.15	0.175	0.20	0.225	0.25	0.275	0.30	0.325	0.35	0.375	0.40	0.425	0.45	0.475	0.50
CAMBER (GIRDER IN PLACE) ↑	0.000	0.027	0.053	0.080	0.107	0.125	0.143	0.162	0.180	0.192	0.203	0.215	0.227	0.233	0.239	0.246	0.252	0.254	0.256	0.258	0.260
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.000	0.015	0.031	0.046	0.062	0.076	0.089	0.103	0.117	0.128	0.139	0.149	0.160	0.167	0.174	0.181	0.188	0.190	0.192	0.195	0.197
FINAL CAMBER ↑	0"	3/16"	5/16"	7/16"	9/16"	5/8"	11/16"	3/4"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"
40TH POINTS	0.000	0.525	0.55	0.575	0.60	0.625	0.65	0.675	0.70	0.725	0.75	0.775	0.80	0.825	0.85	0.875	0.90	0.925	0.95	0.975	1.00
CAMBER (GIRDER IN PLACE) ↑	0.258	0.256	0.254	0.252	0.246	0.239	0.232	0.227	0.215	0.203	0.192	0.180	0.162	0.143	0.125	0.107	0.080	0.053	0.027	0.000	0.000
* DEFLECTION DUE TO SUPERIMPOSED DL ↓	0.195	0.192	0.190	0.188	0.181	0.174	0.167	0.160	0.149	0.139	0.128	0.117	0.103	0.089	0.076	0.062	0.046	0.031	0.015	0.000	0.000
FINAL CAMBER ↑	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	13/16"	3/4"	11/16"	5/8"	9/16"	7/16"	5/16"	3/16"	0"	0"

### 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 PLACE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

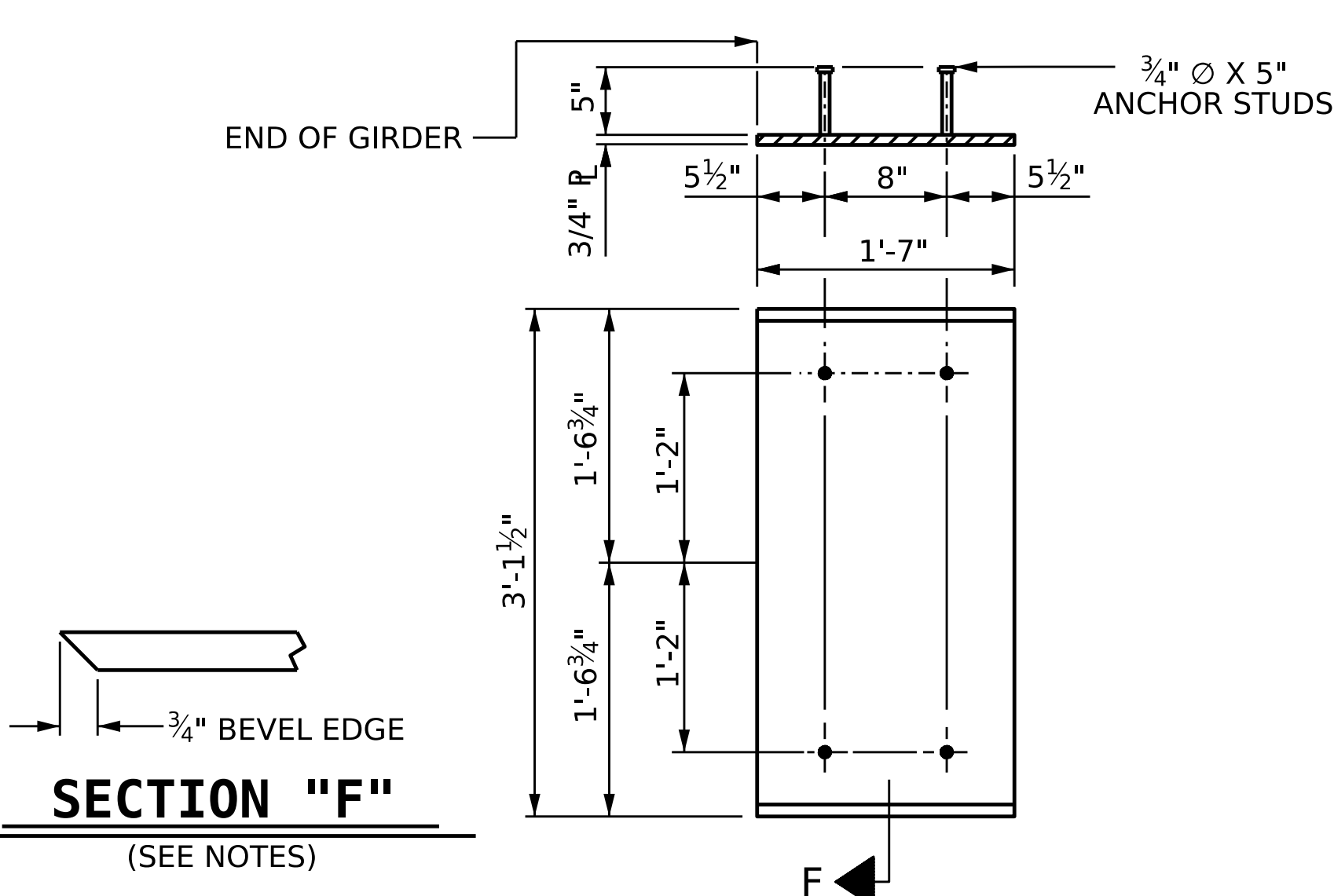
ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.

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 6000 PSI.

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 3/4".



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

PROJECT NO. B-3186 / B-5898  
HAYWOOD COUNTY  
 STATION: 32+21.34 -L LT-  
 SHEET 4 OF 4

AECOM

AECOM TECHNICAL SERVICES OF NC, INC.  
 5438 WADE PARK BOULEVARD, SUITE 200  
 RALEIGH, NC 27607  
 (919) 854-6200 www.aecom.com  
 AECOM License No. FC242

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUPERSTRUCTURE  
 DEAD LOAD DEFLECTION TABLES

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.  
S1-19  
TOTAL SHEETS  
43

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

DRAWN BY : S.NATARAJAN	DATE : 02/2023
CHECKED BY : G.R.COLS	DATE : 03/2023
DESIGN ENGINEER OF RECORD: G.R.COLS	DATE : 04/2023

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED