

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.

APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES.

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.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6,000 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 SHALL BE RAKED TO A DEPTH OF 1/4" EXCEPT IN THE AREA BETWEEN THE STIRRUP AND THE EDGE OF THE GIRDER, AND WHERE NOTED ON THE GIRDER SHEETS.

ALL PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

— DEAD LOAD DEFLECTION TABLE FOR GIRDERS —

0.6" Ø LOW RELAXATION	SPAN A											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.062	0.118	0.162	0.189	0.199	0.189	0.162	0.118	0.062	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.044	0.084	0.115	0.134	0.141	0.134	0.115	0.084	0.044	0.000	
FINAL CAMBER ↑	0"	1/4"	7/16"	9/16"	11/16"	11/16"	9/16"	7/16"	1/4"	0"	0"	

0.6" Ø LOW RELAXATION	GIRDERS 2 AND 3											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.062	0.118	0.162	0.189	0.199	0.189	0.162	0.118	0.062	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.051	0.096	0.131	0.154	0.161	0.154	0.131	0.096	0.051	0.000	
FINAL CAMBER ↑	0"	1/8"	1/4"	3/8"	7/16"	7/16"	7/16"	3/8"	1/4"	1/8"	0"	

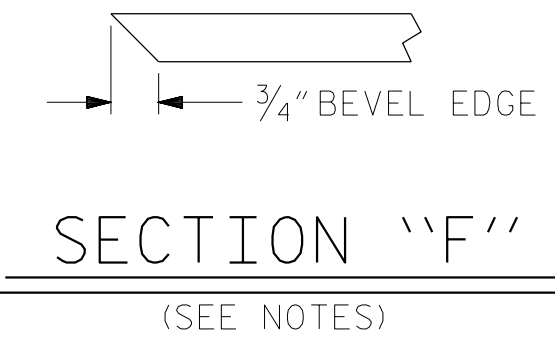
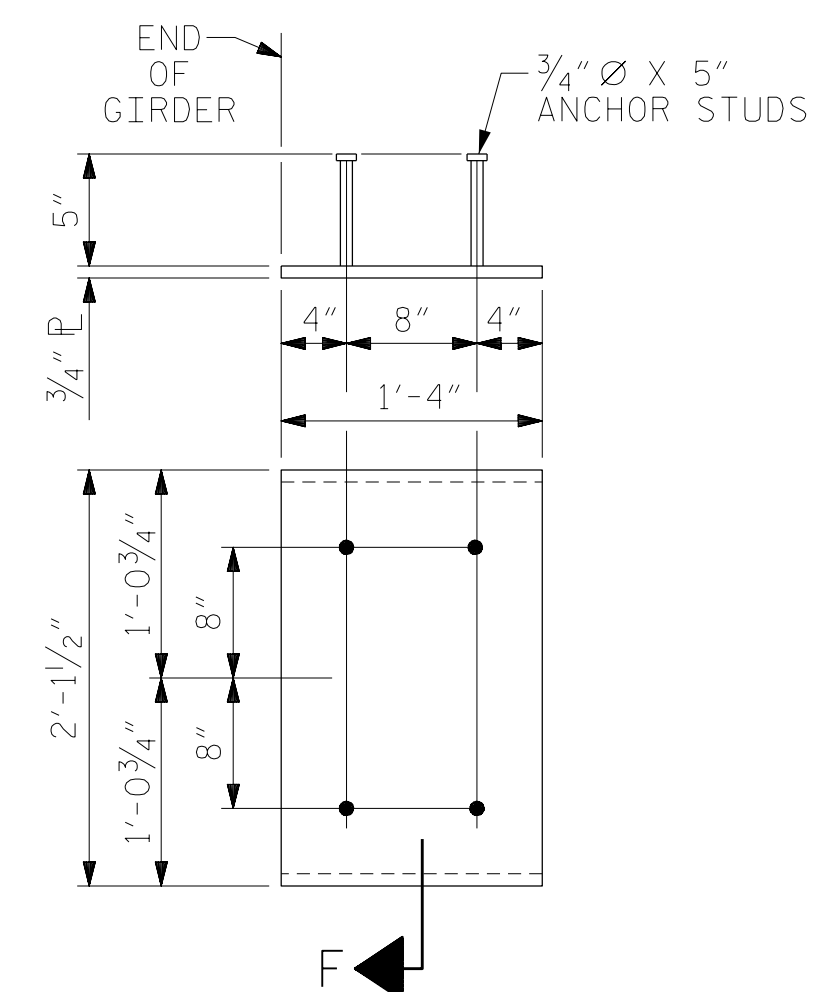
0.6" Ø LOW RELAXATION	GIRDER 4											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.062	0.118	0.162	0.189	0.199	0.189	0.162	0.118	0.062	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.042	0.079	0.108	0.126	0.133	0.126	0.108	0.079	0.042	0.000	
FINAL CAMBER ↑	0"	1/4"	1/2"	5/8"	3/4"	13/16"	3/4"	5/8"	1/2"	1/4"	0"	

— DEAD LOAD DEFLECTION TABLE FOR GIRDERS —

0.6" Ø LOW RELAXATION	SPANS B, C, D & E											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.063	0.119	0.163	0.190	0.200	0.190	0.163	0.119	0.063	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.047	0.089	0.122	0.143	0.151	0.143	0.122	0.089	0.047	0.000	
FINAL CAMBER ↑	0"	3/16"	3/8"	1/2"	9/16"	5/8"	9/16"	1/2"	3/8"	3/16"	0"	

0.6" Ø LOW RELAXATION	GIRDERS 2 AND 3											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.063	0.119	0.163	0.190	0.200	0.190	0.163	0.119	0.063	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.054	0.102	0.139	0.163	0.171	0.163	0.139	0.102	0.054	0.000	
FINAL CAMBER ↑	0"	1/8"	3/16"	5/16"	5/16"	3/8"	5/16"	5/16"	3/16"	1/8"	0"	

0.6" Ø LOW RELAXATION	GIRDER 4											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.063	0.119	0.163	0.190	0.200	0.190	0.163	0.119	0.063	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.044	0.084	0.115	0.135	0.141	0.135	0.115	0.084	0.044	0.000	
FINAL CAMBER ↑	0"	1/4"	7/16"	9/16"	11/16"	11/16"	11/16"	9/16"	7/16"	1/4"	0"	



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

— DEAD LOAD DEFLECTION TABLE FOR GIRDERS —

0.6" Ø LOW RELAXATION	SPAN F											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.062	0.118	0.162	0.189	0.199	0.189	0.162	0.118	0.062	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.044	0.082	0.113	0.132	0.139	0.132	0.113	0.082	0.044	0.000	
FINAL CAMBER ↑	0"	1/4"	7/16"	9/16"	11/16"	3/4"	11/16"	9/16"	7/16"	1/4"	0"	

0.6" Ø LOW RELAXATION	GIRDERS 2 AND 3											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.062	0.118	0.162	0.189	0.199	0.189	0.162	0.118	0.062	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.051	0.096	0.131	0.154	0.162	0.154	0.131	0.096	0.051	0.000	
FINAL CAMBER ↑	0"	1/8"	1/4"	3/8"	7/16"	7/16"	7/16"	3/8"	1/4"	1/8"	0"	

0.6" Ø LOW RELAXATION	GIRDER 4											
	GIRDER 1											
TENTH POINTS	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
CAMBER (GIRDER ALONE IN PLACE) ↑	0.000	0.062	0.118	0.162	0.189	0.199	0.189	0.162	0.118	0.062	0.000	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.000	0.043	0.082	0.112	0.131	0.138	0.131	0.112	0.082	0.043	0.000	
FINAL CAMBER ↑	0"	1/4"	7/16"	5/8"	11/16"	3/4"	11/16"	5/8"	7/16"	1/4"	0"	

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

PROJECT NO. B-4484
CRAVEN COUNTY
STATION: 25+06.00 -L1-

SHEET 4 OF 4 REPLACES BRIDGE NO. 240138

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-18
1			3			TOTAL SHEETS
2			4			37

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY : TWL DATE : 06/2019
CHECKED BY : MAL DATE : 06/2019
DESIGN ENGINEER OF RECORD: PDS DATE : 06/2019