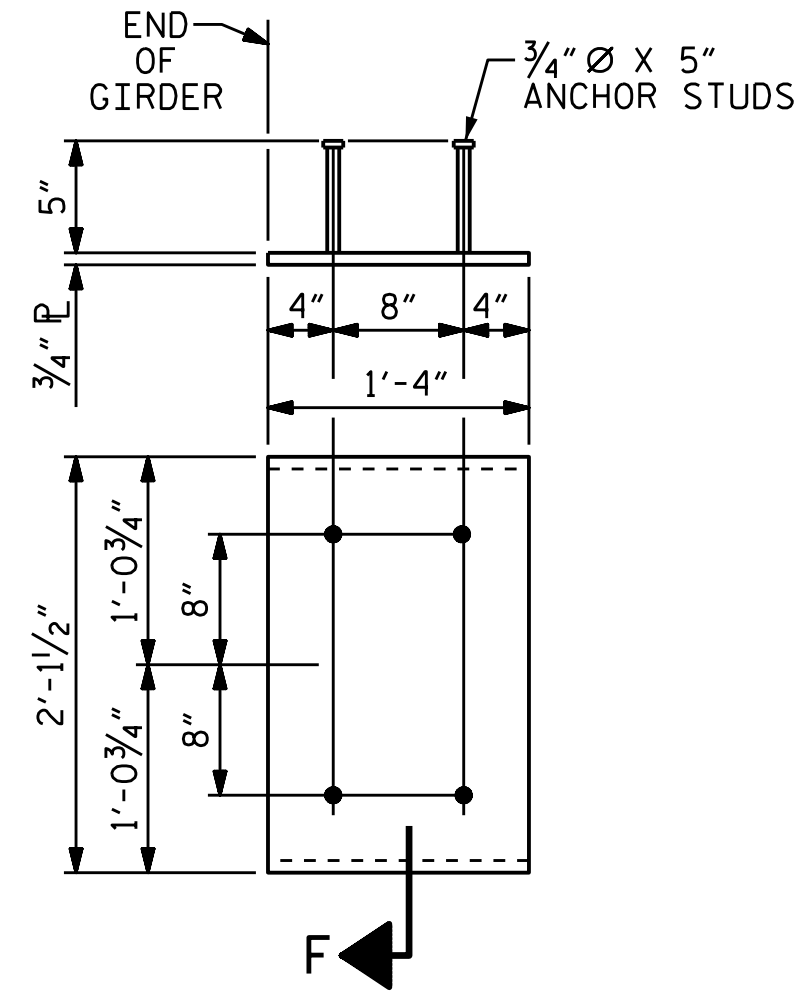
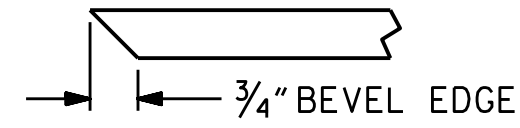


DETAIL "C"



EMBEDDED PLATE "B-1" DETAILS FOR 63" MODIFIED BULB TEES (2 REQ'D PER GIRDER)



SECTION "F" (SEE NOTES)

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 6,700 PSI FOR SPAN A AND 7500 PSI FOR 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".
- A 2" x 2" CHAMFER IS ALLOWED AT THE INTERSECTION OF THE WEB AND THE BOTTOM FLANGE OF THE 63" MODIFIED BULB TEES.
- THE CONTRACTOR HAS THE OPTION TO PROVIDE, AT NO ADDITIONAL COST TO THE DEPARTMENT, 2 ADDITIONAL STRANDS AT THE TOP OF THE GIRDER TO FACILITATE TYING OF THE REINFORCING STEEL. THESE STRANDS SHALL BE PULLED TO A LOAD OF 4,500 lbs.

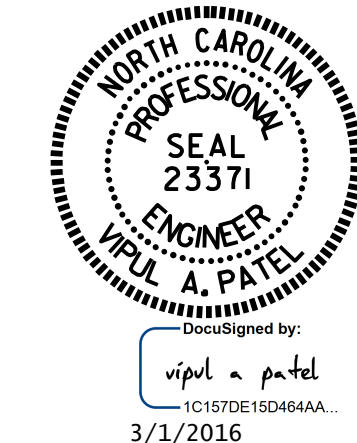
DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
0.6" Ø LOW RELAXATION	SPAN A																					
	GIRDERS 1 THROUGH 7																					
	TWENTIETH POINTS	0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	0.0
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.038	0.074	0.109	0.140	0.168	0.192	0.211	0.225	0.233	0.236	0.233	0.225	0.211	0.192	0.168	0.140	0.109	0.074	0.038	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.018	0.035	0.051	0.066	0.079	0.091	0.099	0.106	0.109	0.112	0.109	0.106	0.099	0.091	0.079	0.066	0.051	0.035	0.018	0.000
FINAL CAMBER	↑	0	1/4"	1/2"	11/16"	7/8"	1 1/16"	1 3/16"	1 3/8"	1 7/16"	1 1/2"	1 1/2"	1 1/2"	1 7/16"	1 3/8"	1 3/16"	1 1/16"	7/8"	1 1/16"	1/2"	1/4"	0

DEAD LOAD DEFLECTION TABLE FOR GIRDERS																						
0.6" Ø LOW RELAXATION	SPAN B																					
	GIRDERS 1 THROUGH 7																					
	TWENTIETH POINTS	0.0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	0.0
CAMBER (GIRDER ALONE IN PLACE)	↑	0.000	0.043	0.086	0.125	0.162	0.194	0.222	0.244	0.260	0.269	0.273	0.269	0.260	0.244	0.222	0.194	0.162	0.125	0.086	0.043	0.000
* DEFLECTION DUE TO SUPERIMPOSED D.L.	↓	0.000	0.021	0.042	0.060	0.079	0.093	0.108	0.117	0.126	0.129	0.132	0.129	0.126	0.117	0.108	0.093	0.079	0.060	0.042	0.021	0.000
FINAL CAMBER	↑	0	1/4"	1/2"	13/16"	1"	1 3/16"	1 3/8"	1 1/2"	1 5/8"	1 11/16"	1 11/16"	1 11/16"	1 5/8"	1 1/2"	1 3/8"	1 3/16"	1"	13/16"	1/2"	1/4"	0

* INCLUDES FUTURE WEARING SURFACE EXCEPT GIRDER 1. ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

PROJECT NO. B-5123
CABARRUS COUNTY
 STATION: 21+44.10 -L-

SHEET 3 OF 3



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD
 PRESTRESSED CONCRETE GIRDER
 CONTINUOUS FOR LIVE LOAD
 DETAILS
 (LEFT LANE)

ASSEMBLED BY : T. H. CARROLL	DATE : 7/16/15
CHECKED BY : K. D. LAYNE	DATE : 8/21/15
DRAWN BY : ELR 11/91	REV. 10/1/11
CHECKED BY : GRP 11/91	REV. 1/15
MAA/GM	DESIGN ENGINEER OF RECORD:
MAA/TMG	H.A. LOCKLEAR
MAA/TMG	DATE : 2-29-16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-14
1			3			TOTAL SHEETS
2			4			74