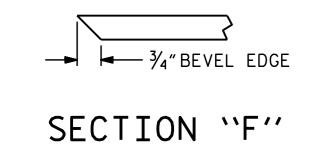


EMBEDDED PLATE "B-1" DETAILS FOR 63" MODIFIED BULB TEES

(2 REQ'D PER GIRDER)



(SEE NOTES)

DEAD LOAD	D	EFLE	ECTI	ON	TAB	LE	FOF	R SP	AN	Α	
O.6" LOW RELAXATION					GIRDE	R 1					
TENTH POINTS	0	.1	.2	. 3	.4	. 5	.6	.7	.8	. 9	0
CAMBER (GIRDER ALONE IN PLACE) ^	0.0	0.050	0.094	0.129	0.151	0.159	0.151	0.129	0.094	0.050	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	-0.024	-0.046	-0.063	-0.074	-0.077	-0.074	-0.063	-0.046	-0.024	0.0
FINAL CAMBER ↑	0.0	5/16"	9/16"	13/16"	¹⁵ / ₁₆ "	1"	15/16"	13/16"	%i6"	5/16"	0.0

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

DEAD LOAD	D	EFLE	ECTI	ON	TAB	LE	FOF	R SP	'ΑΝ	Α	
O.6" LOW RELAXATION GIRDER 2											
TENTH POINTS	0	.1	. 2	.3	. 4	. 5	. 6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ^	0.0	0.050	0.094	0.129	0.151	0.159	0.151	0.129	0.094	0.050	
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	-0.025	-0.048	-0.066	-0.077	-0.081	-0.077	-0.066	-0.048	-0.025	0.0
FINAL CAMBER ↑	0.0	5/16"	%6″	3/4"	7∕ ₈ ″	15/16"	7∕8″	³ / ₄ "	%6"	⁵ / ₁₆ "	0.0

* INCLUDES FUTURE WEARING SURFACE

ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER",

WHICH IS GIVEN IN INCHES (FRACTION FORM).

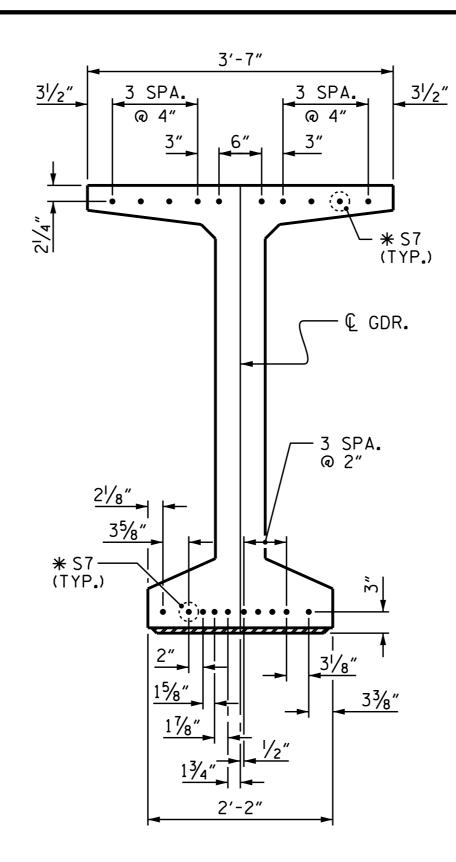
DEAD LOAD) D	EFLE	ECTI	ON	TAB	LE	FOF	R SP	'ΑΝ	Д	
O.6" LOW RELAXATION					GIRDE	R 3					
TENTH POINTS	0	.1	. 2	. 3	. 4	. 5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.050	0.094	0.129	0.151	0.159	0.151	0.129	0.094	0.050	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	-0.024	-0.045	-0.062	-0.073	-0.076	-0.073	-0.062	-0.045	-0.024	0.0
FINAL CAMBER ↑	0.0	5/16"	9/16"	13/16"	15/16"	1"	¹⁵ / ₁₆ "	13/16"	%6"	5/16"	0.0

* INCLUDES FUTURE WEARING SURFACE

ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER",

WHICH IS GIVEN IN INCHES (FRACTION FORM).

DRAWN BY :	M.D.PIS	50	DATE :	08-07-13
CHECKED BY : _	K.P.SED	ΔI		09-15-14
DESTON ENGINEE	D VE BECUBU.	R KOLICHEKT	DATE 4	02/2015



DETAIL "C"

(FOR 63"MODIFIED BULB TEES)

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 6000 PSI (SPAN A) & 6200 PSI (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".

WHEN DRAPED STRANDS ARE DETAILED, THE LONGITUDINAL LOCATION OF THE HOLD DOWN DEVICES SHALL BE WITHIN 6" OF THE LOCATION SHOWN AND THE CENTER OF GRAVITY OF THE GROUP OF DRAPED STRANDS SHALL BE LOCATED WITHIN $\frac{1}{2}$ " OF THE THEORETICAL LOCATION SHOWN.

A 2" × 2"CHAMFER IS ALLOWED AT THE INTERSECTION OF THE WEB AND THE BOTTOM FLANGE OF THE 63" AND 72" MODIFIED BULB TEES ONLY.

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 4500 lbs.

DEAD LOA[) [)EFLE	ECTI	ON	TAE	3LE	FOF	R SP	AN	В	
O.6" LOW RELAXATION					GIRD	ER 1					
TENTH POINTS	0	.1	. 2	. 3	.4	. 5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.054	0.102	0.140	0.164	0.172	0.164	0.140	0.102	0.054	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	-0.030	-0.057	-0.078	-0.091	-0.096	-0.091	-0.078	-0.057	-0.030	0.0
FINAL CAMBER ↑	0.0	5/16"	%6"	3/4"	7∕8"	¹⁵ / ₁₆ "	½″	3/4"	%6″	5∕ı6″	0.0

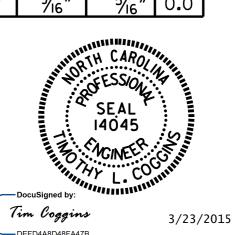
* INCLUDES FUTURE WEARING SURFACE ALL VALUES ARE SHOWN IN FEET (DECIMAL FORM), EXCEPT "FINAL CAMBER", WHICH IS GIVEN IN INCHES (FRACTION FORM).

DEAD LOAD) D	EFL	ECTI	ON	TAB	LE	FOR	SP	AN	В	
O.6" LOW RELAXATION		GIRDER 2									
TENTH POINTS	0	.1	.2	.3	.4	. 5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.054	0.102	0.140	0.164	0.172	0.164	0.140	0.102	0.054	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	-0.032	-0.060	-0.082	-0.096	-0.100	-0.096	-0.082	-0.060	-0.032	0.0
FINAL CAMBER ↑	0.0	1/4"	1/2"	11/16"	13/16"	⁷ ⁄8″	13/16"	¹¹ /16"	1/2"	1/4"	0.0

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

DEAD LOAD	D	EFLE	ECTI	ON	TAB	LE	FOF	R SP	AN	В	
O.6" LOW RELAXATION GIRDER 3											
TENTH POINTS	0	.1	.2	. 3	.4	. 5	.6	.7	.8	.9	0
CAMBER (GIRDER ALONE IN PLACE) ↑	0.0	0.054	0.102	0.140	0.164	0.172	0.164	0.140	0.102	0.054	0.0
* DEFLECTION DUE TO SUPERIMPOSED D.L. ↓	0.0	-0.030	-0.056	-0.077	-0.090	-0.095	-0.090	-0.077	-0.056	-0.030	0.0
FINAL CAMBER ↑	0.0	5/16"	9/16"	3/4"	7/8"	15/16"	7∕ ₈ ″	3/4"	%6"	5/16"	0.0

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



PROJECT NO. R-2514D JONES & CRAVEN COUNTY STATION: 28+29.35 -Y10-

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE DEAD LOAD DEFLECTION (SPANS A & B)

(RIGHT LANE)

	SHEET NO					
10.	BY:	DATE:	NO.	BY:	DATE:	S16-014
1			3			TOTAL SHEETS
2			4			30