

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203M EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

TIE ROD ASSEMBLY SHALL BE AASHTO M270 GRADE 250 STRUCTURAL STEEL.

ALL REINFORCING STEEL SHALL BE GRADE 420.

APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN ELEVATION VIEW. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. BEVEL EDGES OF PLATE "B-1" TO GIVE CLOSE FIT BUT NOT TIGHT FIT TO STEEL CASTING FORM.

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 50mm 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 27.6 MPa.

DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.

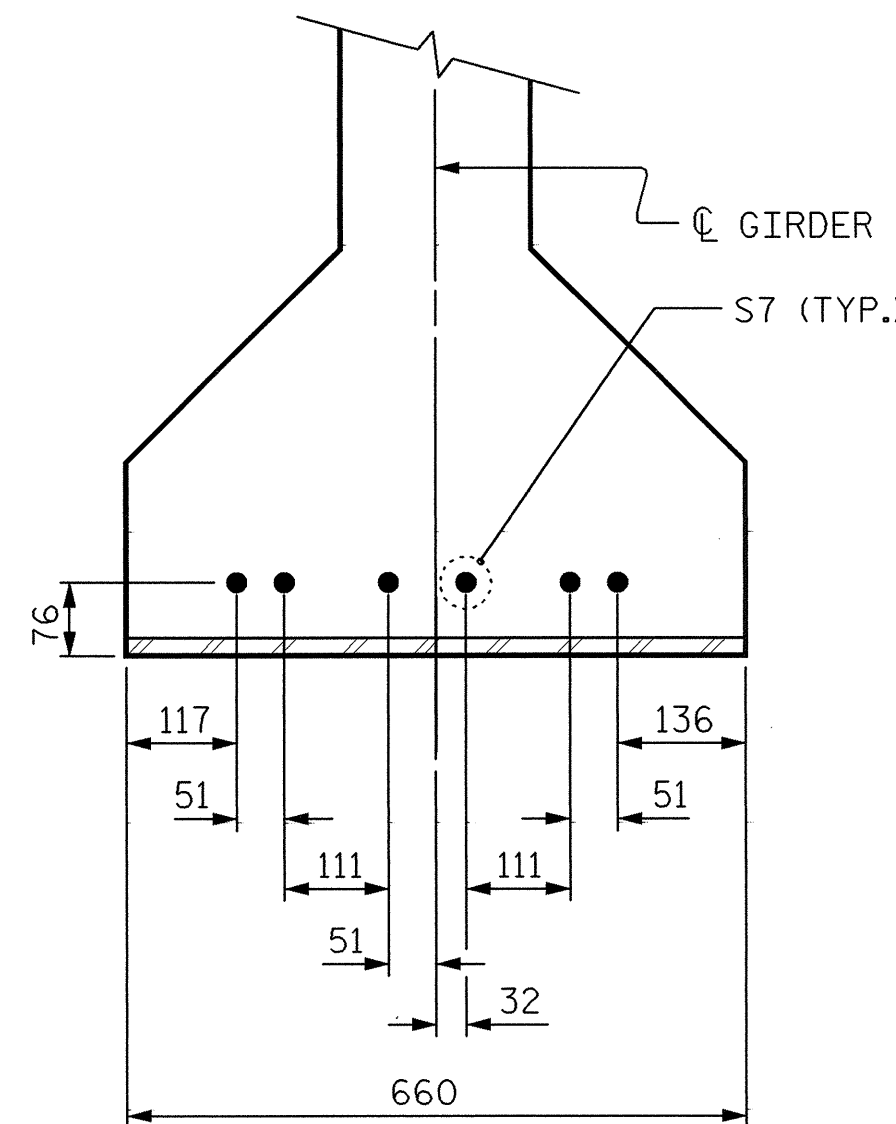
THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 100mm, SHALL BE RAKED TO A DEPTH OF 6mm.

WHEN DRAPED STRANDS ARE DETAILED, THE LONGITUDINAL LOCATION OF THE HOLD DOWN DEVICES SHALL BE WITHIN 150mm OF THE LOCATION SHOWN AND THE CENTER OF GRAVITY OF THE GROUP OF DRAPED STRANDS SHALL BE LOCATED WITHIN 13mm OF THE THEORETICAL LOCATION SHOWN.

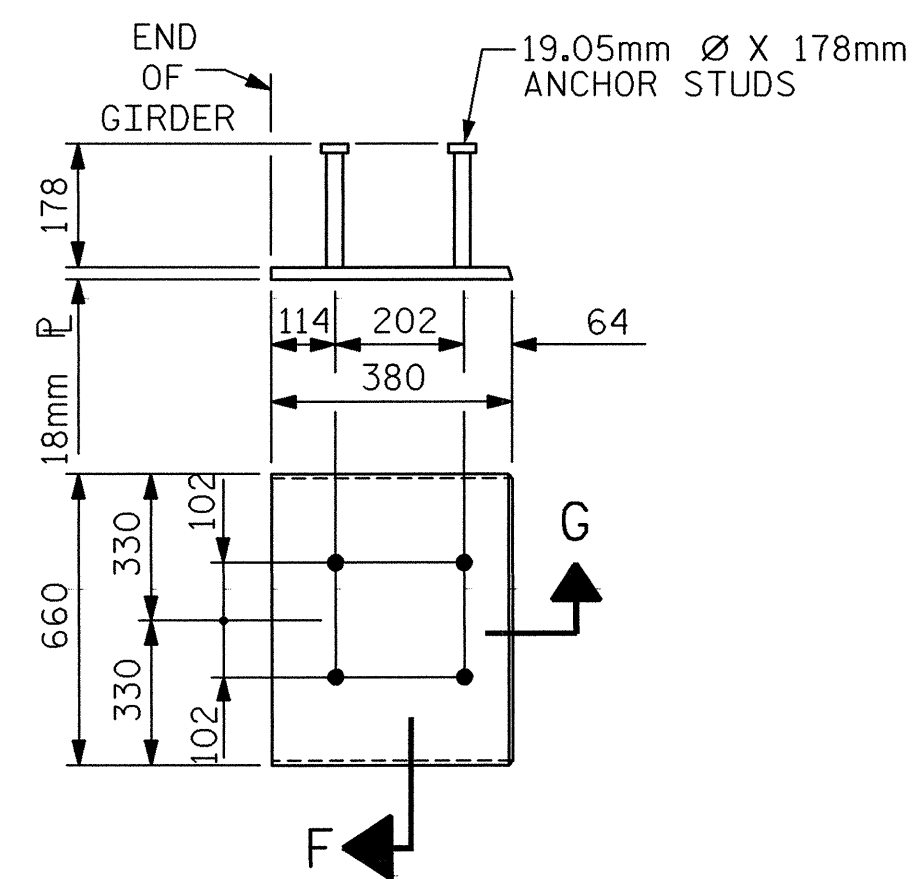
A 50mm x 50mm CHAMFER IS ALLOWED AT THE INTERSECTION OF THE WEB AND THE BOTTOM FLANGE OF THE 1600mm AND 1829mm MODIFIED BULB TEES ONLY.

FOR VERTICAL CRACKS IN PRESTRESSED CONCRETE GIRDERS PRIOR TO DETENSIONING, SEE SPECIAL PROVISIONS.

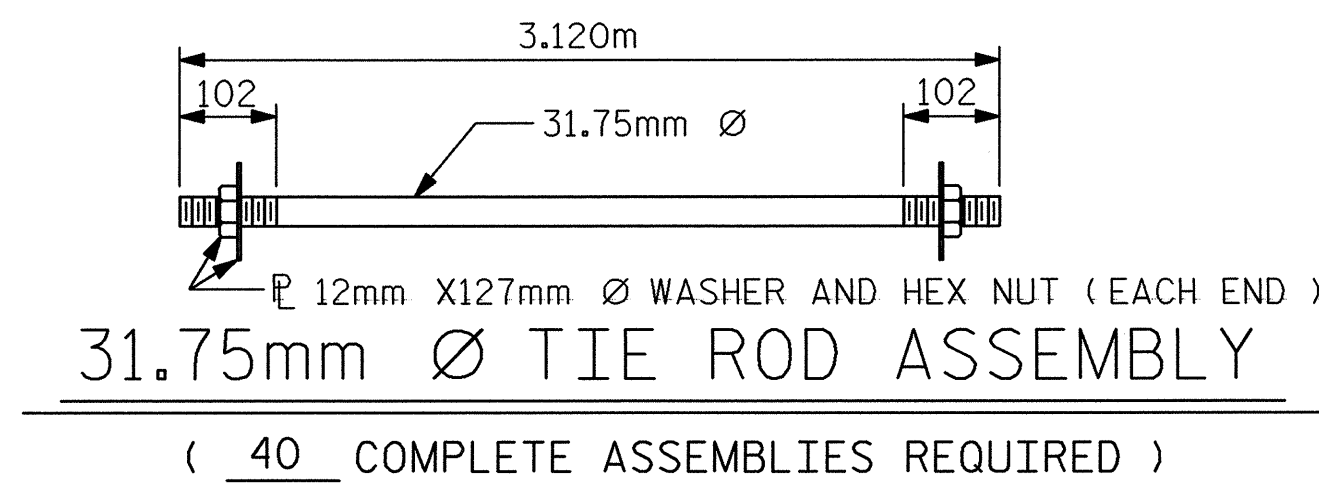
FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.



DETAIL "A"
(FOR AASHTO TYPE IV GIRDERS)



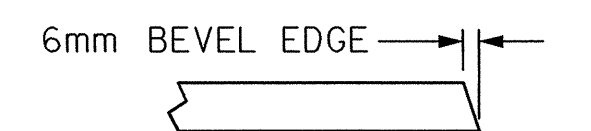
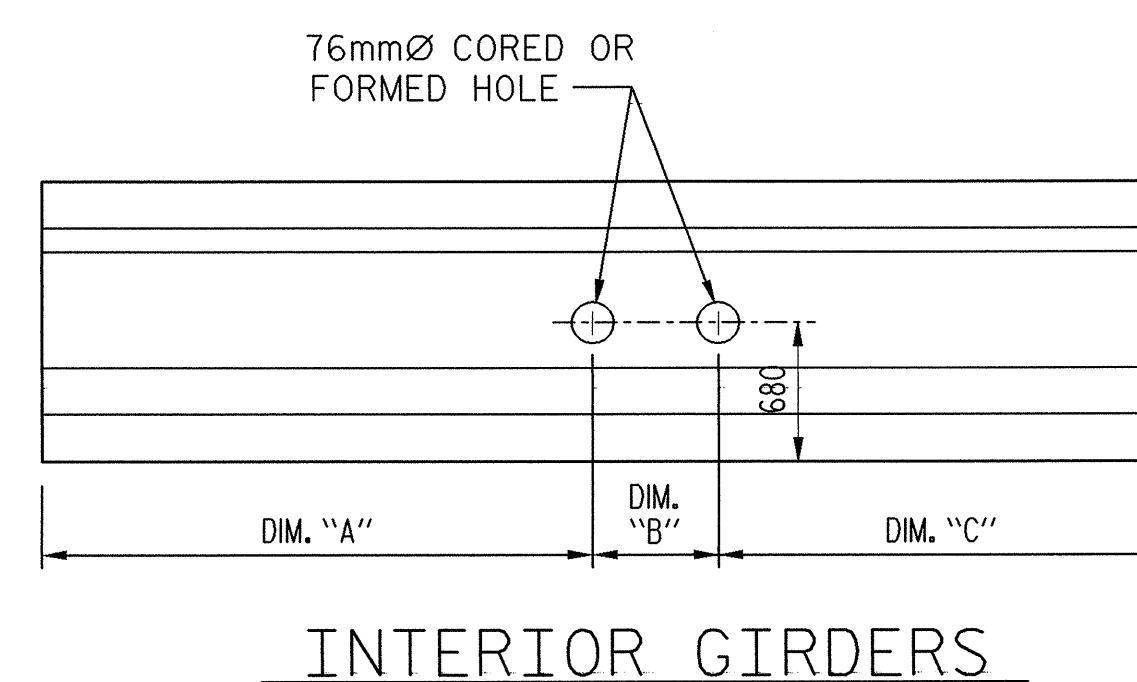
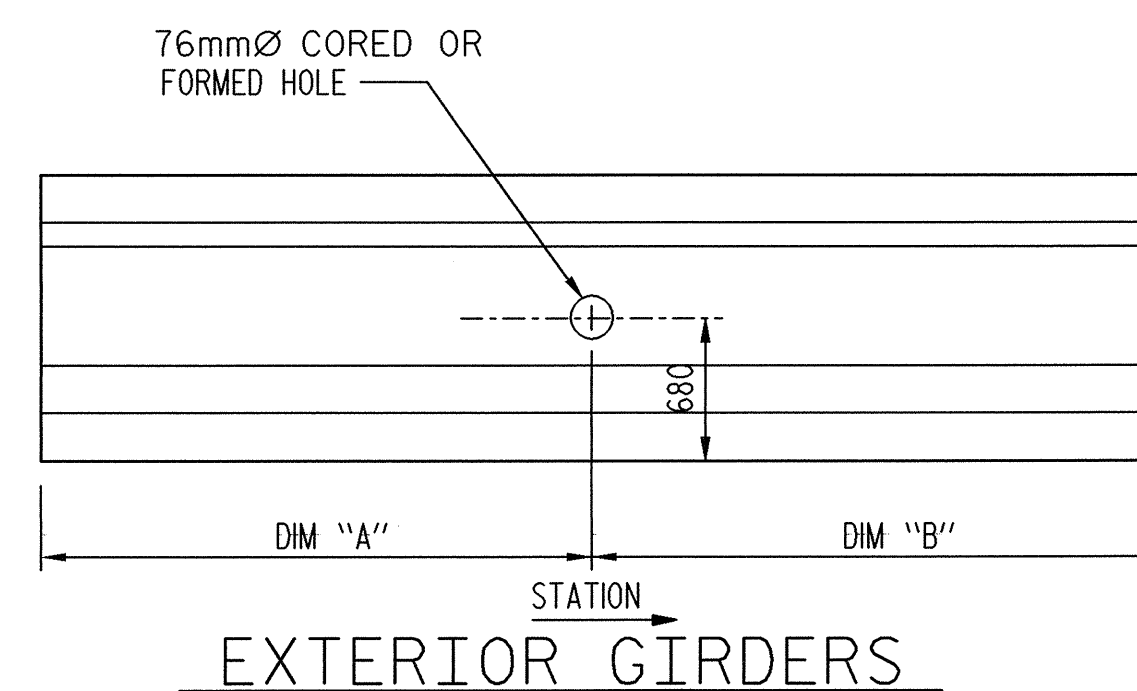
EMBEDDED PLATE "B-1" DETAILS
FOR AASHTO TYPE IV GIRDER
1600mm & 1829mm MODIFIED
BULB TEES
(2 REQ'D PER GIRDER)



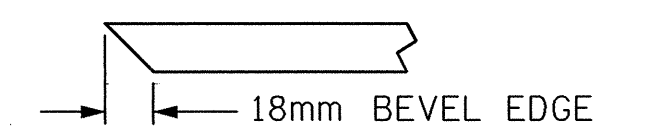
31.75mm diameter TIE ROD ASSEMBLY
(40 COMPLETE ASSEMBLIES REQUIRED)

	EXTERIOR GIRDERS				INTERIOR GIRDERS			
	GIRDER	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	GIRDER	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"
SPAN "A"	1	9.672m	8.228m	0	2	8.228m	1.444m	8.228m
	5	8.228m	9.672m	0	3	8.228m	1.444m	8.228m
					4	8.228m	1.444m	8.228m
SPAN "B"	1	13.147m	11.673m	0	2	11.673m	1.474m	11.673m
	5	11.673m	13.147m	0	3	11.673m	1.474m	11.673m
					4	11.673m	1.474m	11.673m
SPAN "C"	1	13.125m	11.615m	0	2	11.615m	1.511m	11.614m
	5	11.615m	13.125m	0	3	11.615m	1.511m	11.614m
					4	11.615m	1.511m	11.614m
SPAN "D"	1	13.143m	11.597m	0	2	11.597m	1.547m	11.596m
	5	11.597m	13.143m	0	3	11.597m	1.547m	11.596m
					4	11.597m	1.547m	11.596m
SPAN "E"	1	13.202m	11.618m	0	2	11.618m	1.584m	11.618m
	5	11.618m	13.202m	0	3	11.618m	1.584m	11.618m
					4	11.618m	1.584m	11.618m
SPAN "F"	1	13.220m	11.600m	0	2	11.600m	1.621m	11.599m
	5	11.600m	13.200m	0	3	11.600m	1.621m	11.599m
					4	11.600m	1.621m	11.599m
SPAN "G"	1	13.199m	11.541m	0	2	11.541m	1.658m	11.541m
	5	11.541m	13.199m	0	3	11.541m	1.658m	11.541m
					4	11.541m	1.658m	11.541m
SPAN "H"	1	13.218m	11.522m	0	2	11.522m	1.696m	11.522m
	5	11.522m	13.218m	0	3	11.522m	1.696m	11.522m
					4	11.522m	1.696m	11.522m
SPAN "I"	1	9.775m	8.045m	0	2	8.045m	1.730m	8.045m
	5	8.045m	9.775m	0	3	8.045m	1.730m	8.045m
					4	8.045m	1.730m	8.045m
SPAN "J"	1	9.829m	8.071m	0	2	8.071m	1.758m	8.071m
	5	8.071m	9.829m	0	3	8.071m	1.758m	8.071m
					4	8.071m	1.758m	8.071m

PLACEMENT OF TIE ROD HOLES



SECTION "G"



SECTION "F"

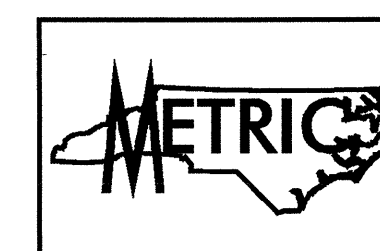
(SEE NOTES)

PROJECT NO. R-2552AB

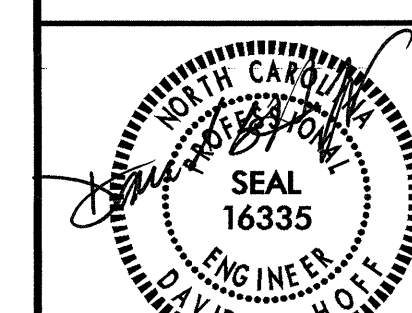
JOHNSTON COUNTY

STATION: 40+96.000 -L- P.O.C.

SHEET 4 OF 5



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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			429
2			4			429

DWG. NO.	TOTAL
22	64