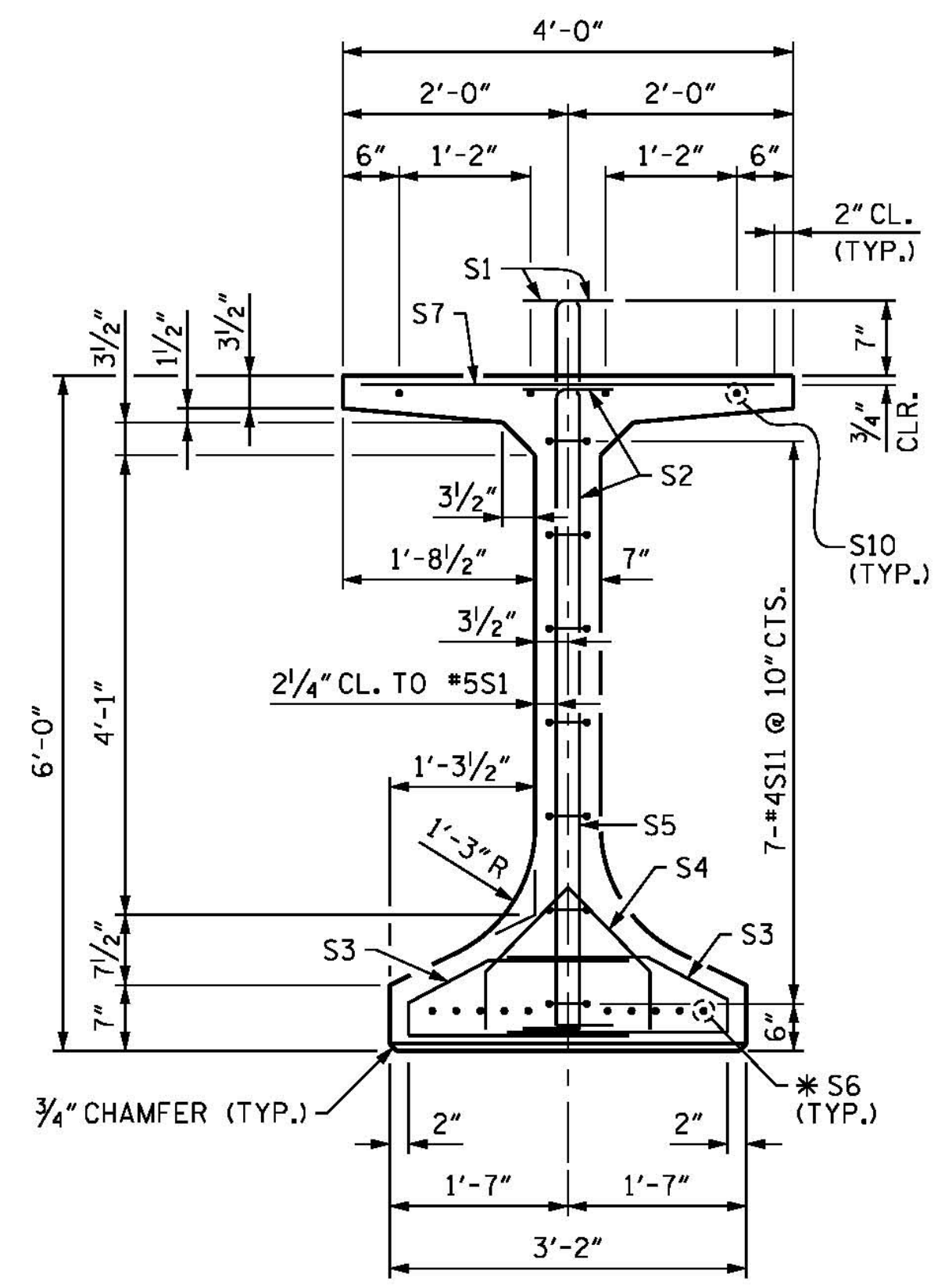
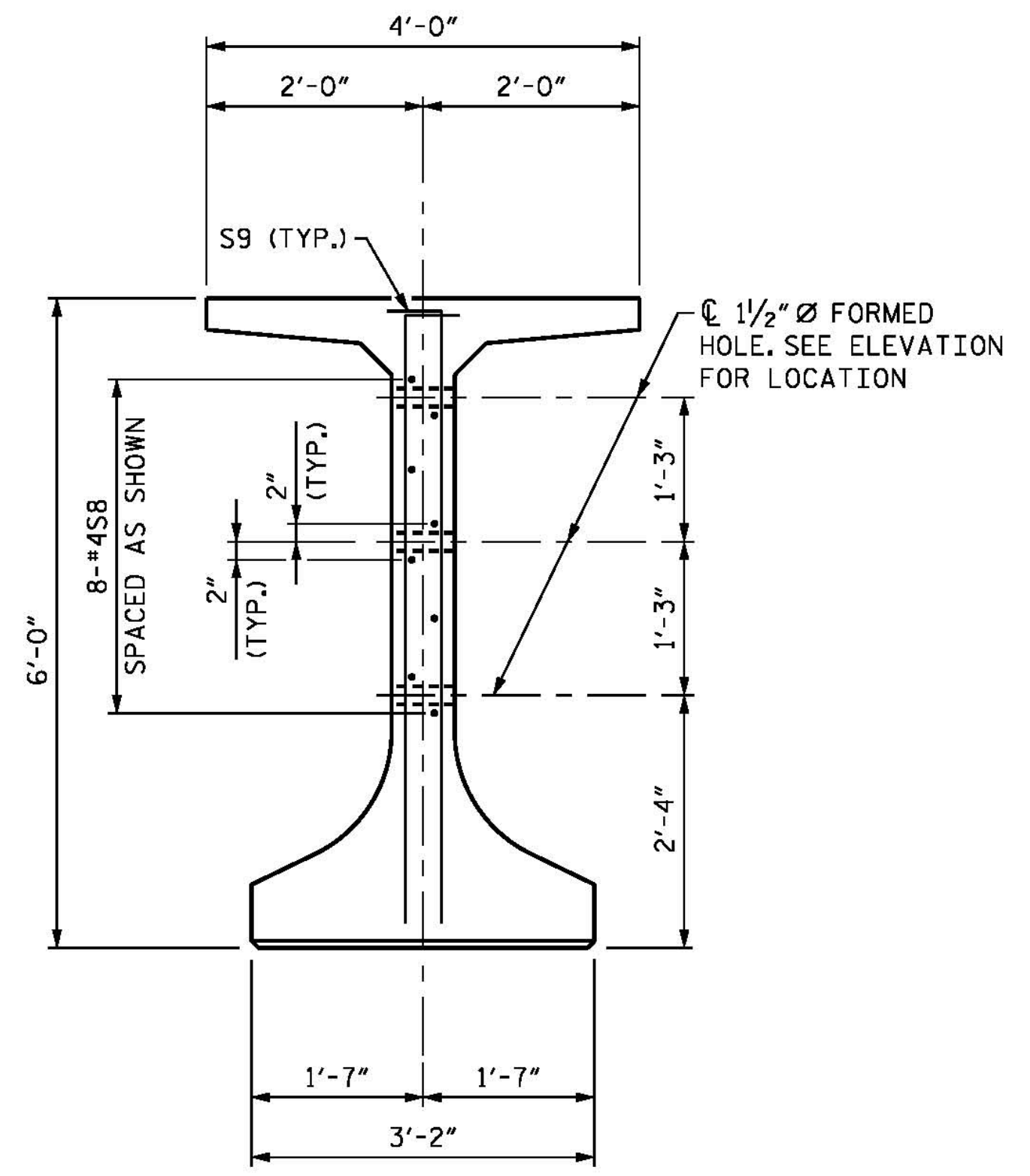


SECTION A-A

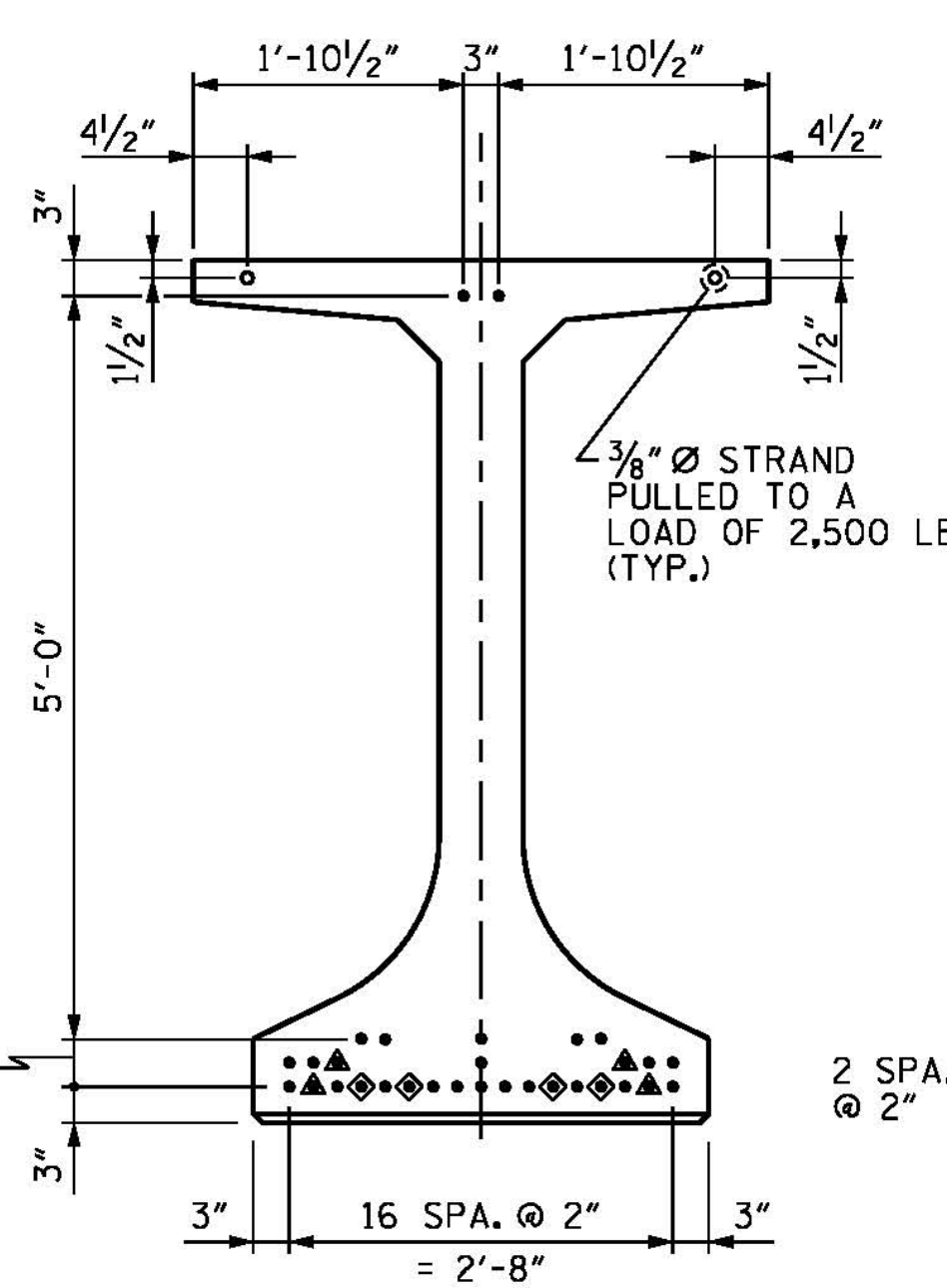


SECTION B-B

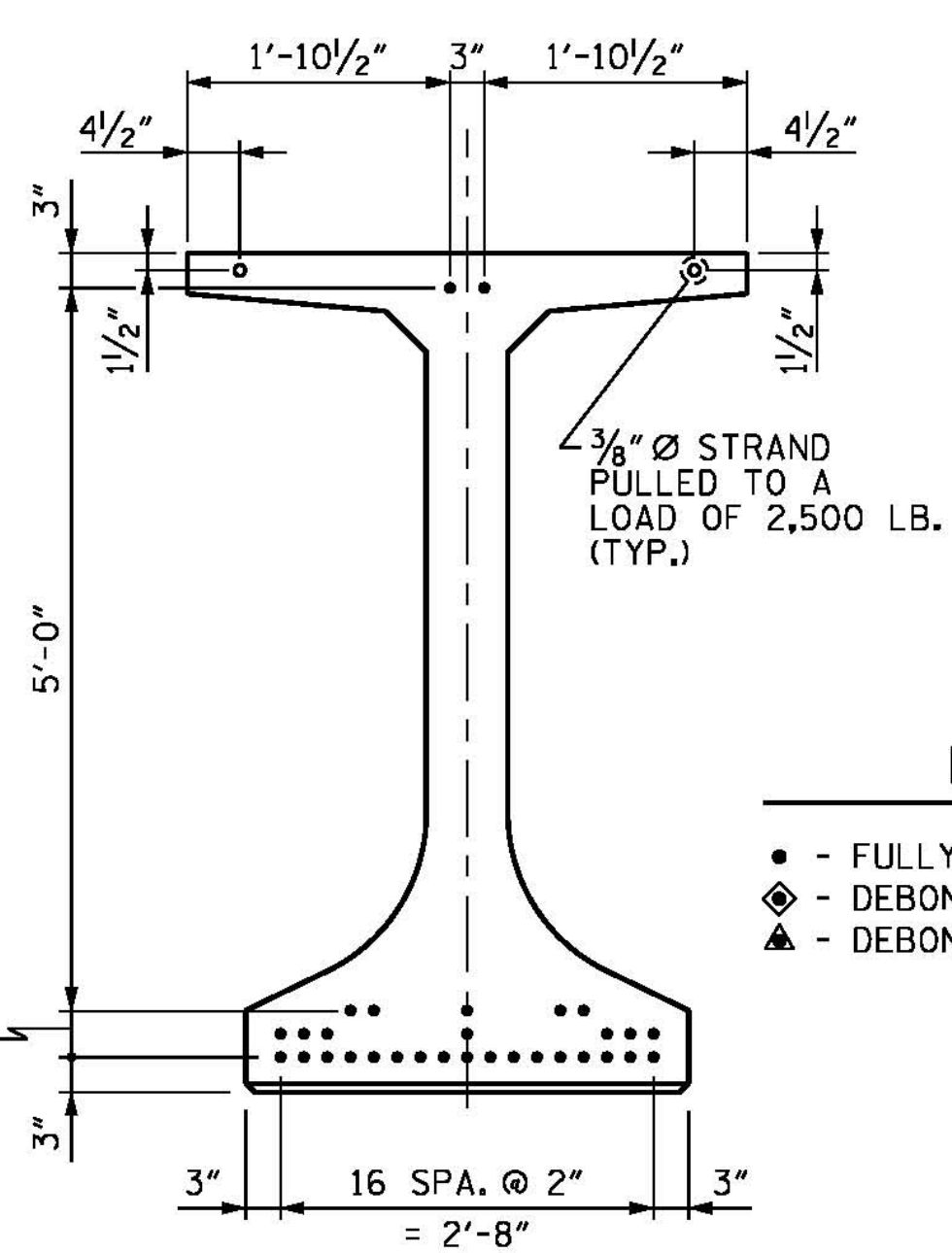


SECTION C-C

(S1, S3 AND S7 BARS NOT SHOWN)



AT END OF GIRDER



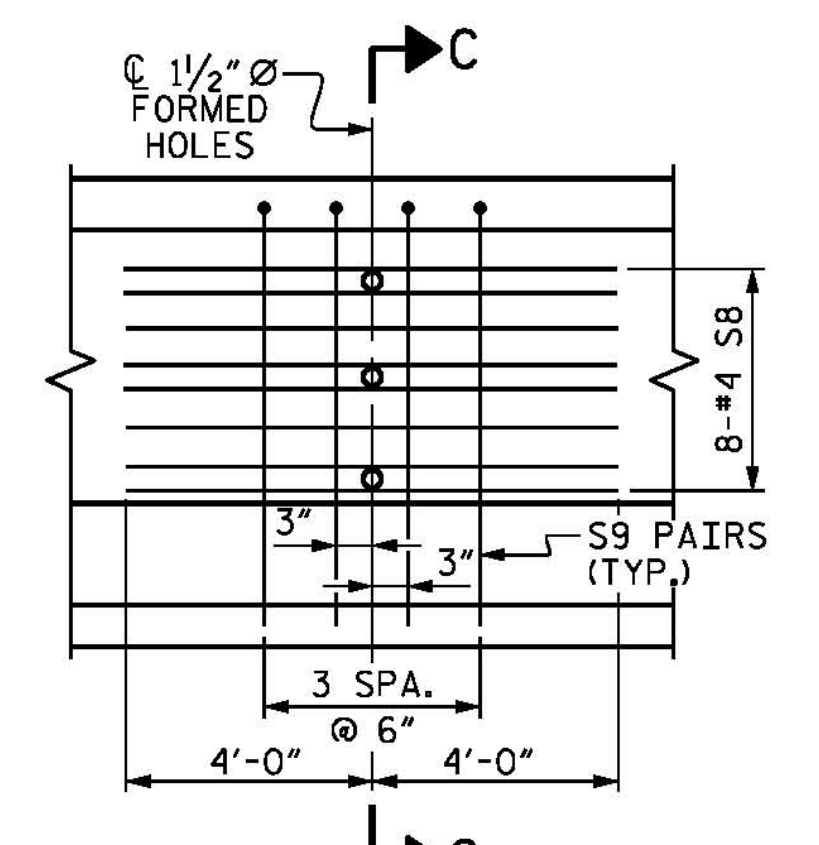
AT Q OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT

(31 STRANDS REQUIRED)

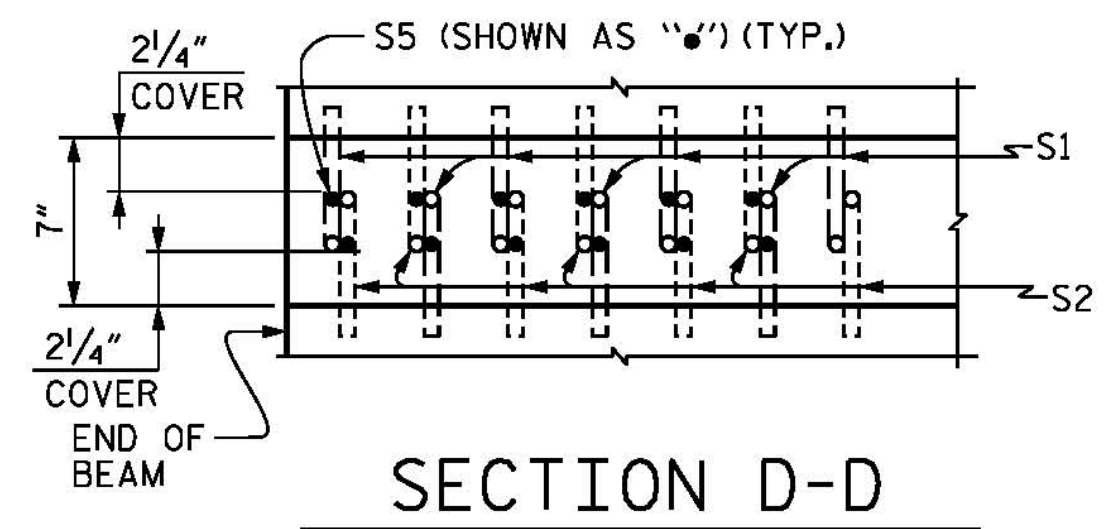
DEBONDING LEGEND

- - FULLY BONDED STRANDS
- ◊ - DEBONDED FOR 12'-0" FROM END OF GIRDER
- ▲ - DEBONDED FOR 8'-0" FROM END OF GIRDER



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR ALL SPANS.



SECTION D-D

0.6" Ø L. R. GRADE 270 STRANDS

AREA (SQ. INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

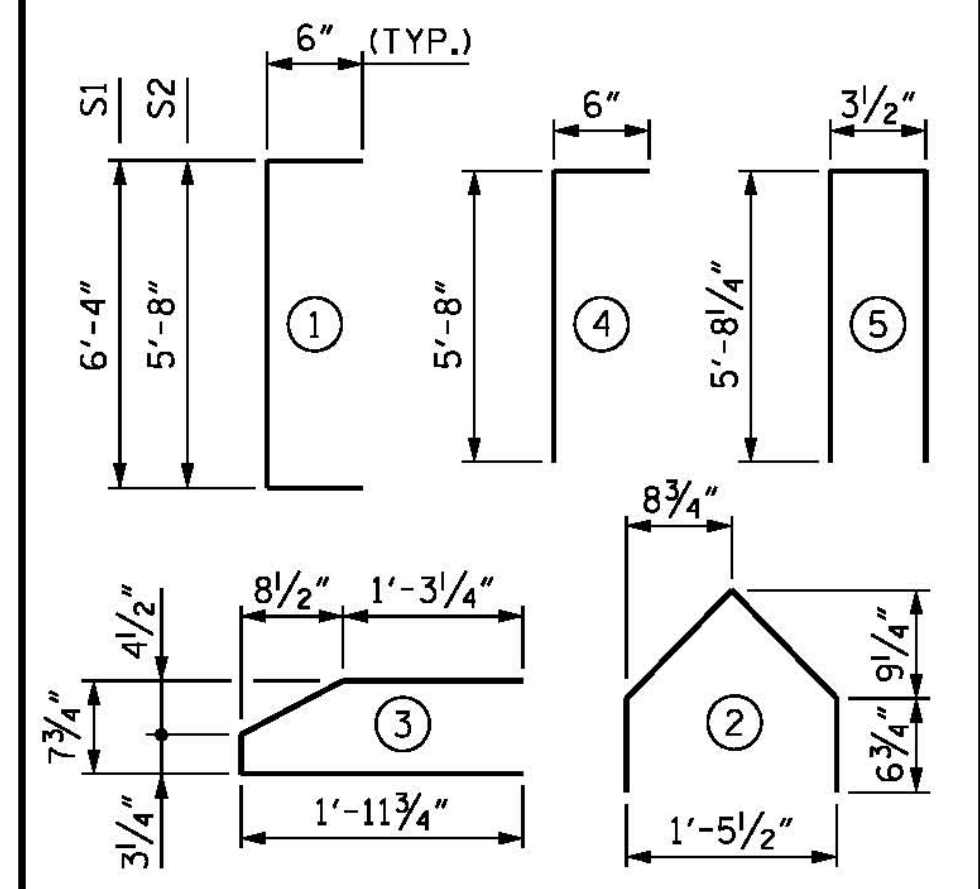
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	152	#5	1	7'-4"	1163
S2	108	#5	1	6'-8"	751
S3	184	#3	3	4'-4"	300
S4	42	#3	2	3'-3"	51
S5	24	#5	STR	5'-6"	138
S6	10	#5	STR	3'-8"	38
S7	110	#4	STR	3'-8"	269
S8	8	#4	STR	8'-0"	43
S9	8	#4	4	6'-2"	33
S10	8	#6	STR	26'-0"	312
S11	14	#4	5	11'-8"	109

* NOTE: S6 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER

REINFORCING STEEL	10,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
LB.	C.Y.	NO.
SPAN G	3207	25.5
SPANS H AND I	3245	25.5

GIRDERS REQUIRED

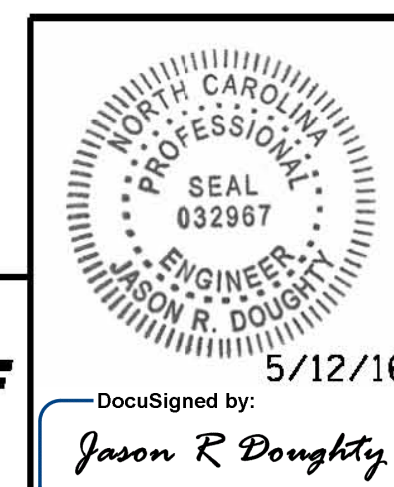
NUMBER	LENGTH	TOTAL LENGTH
15	93.57'	1403.55'

PROJECT NO. B-4929

PENDER COUNTY

STATION: 38+13.81 -L2-

SHEET 3 OF 3



PARSONS BRINCKERHOFF
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
LICENSE NO. F-0165

DocuSigned by:
Jason R. Doughty
00F1C86448274F7...

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
F.I.B. 72"
PRESTRESSED
CONCRETE GIRDER
(SPANS G, H AND I)

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

SHEET NO. S-81
TOTAL SHEETS 278

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

5/10/2016 400_159_B4929_SMU_FIB72_07.dgn

DESIGNED BY: E. DAVIS DATE: FEB 2016
DRAWN BY: M. HOBBS DATE: FEB 2016
CHECKED BY: B. LOFLIN DATE: MAR 2016
DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016