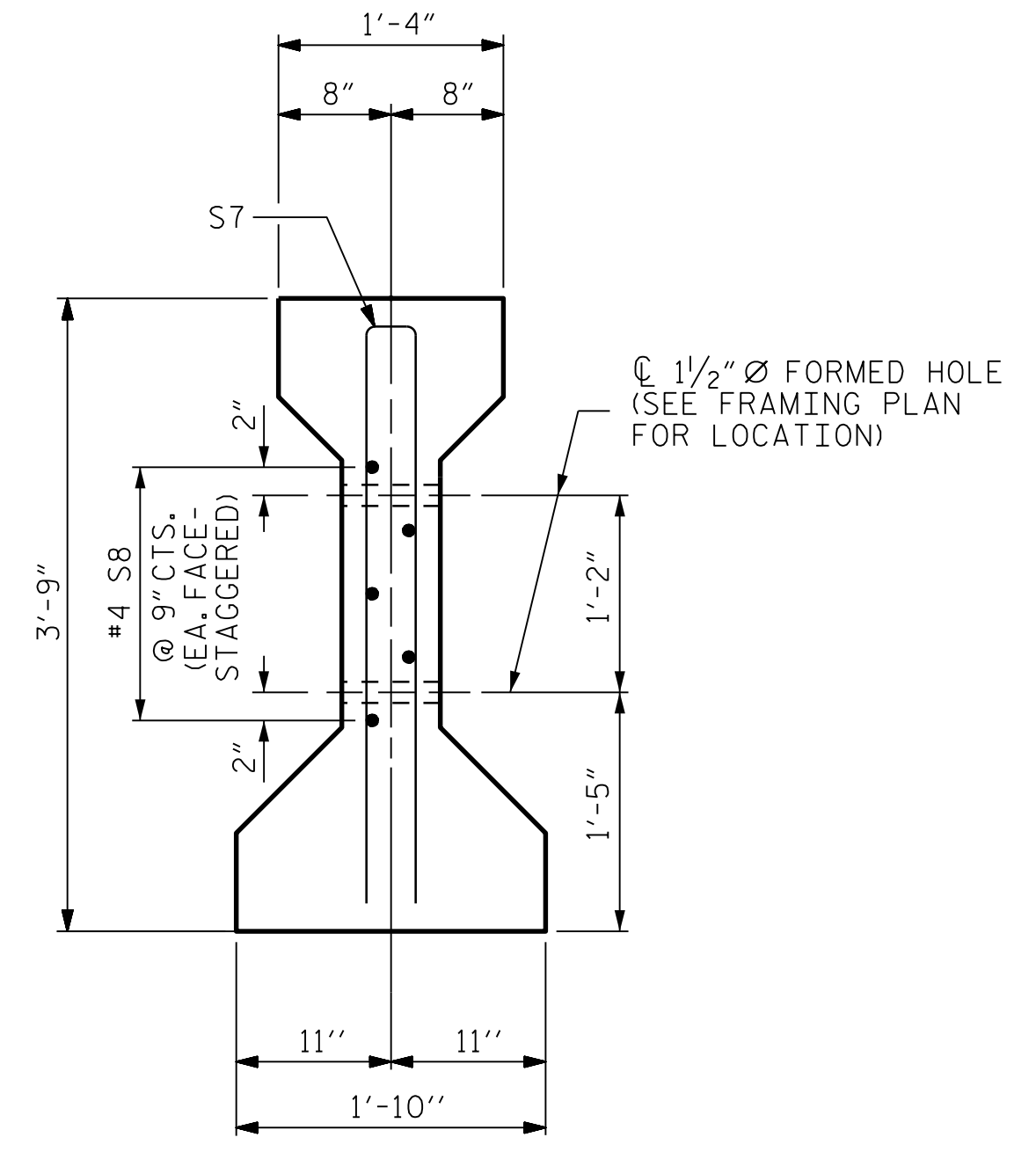
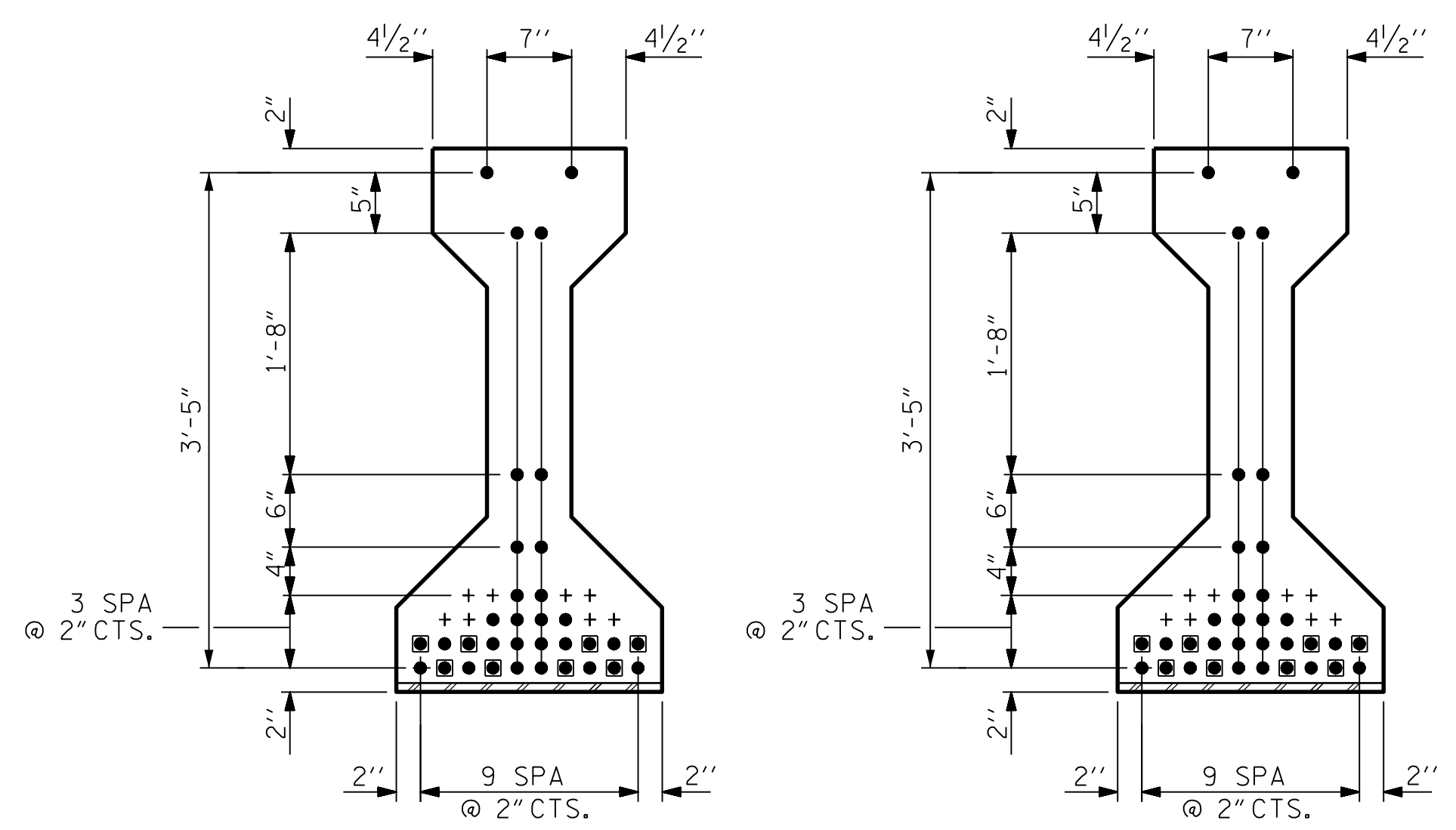


**SECTION A-A**  
(FOR EMBEDDED "B-1" DETAILS  
SEE SHEET 2 OF 2)



**SECTION C-C**  
(S1 BARS NOT SHOWN)



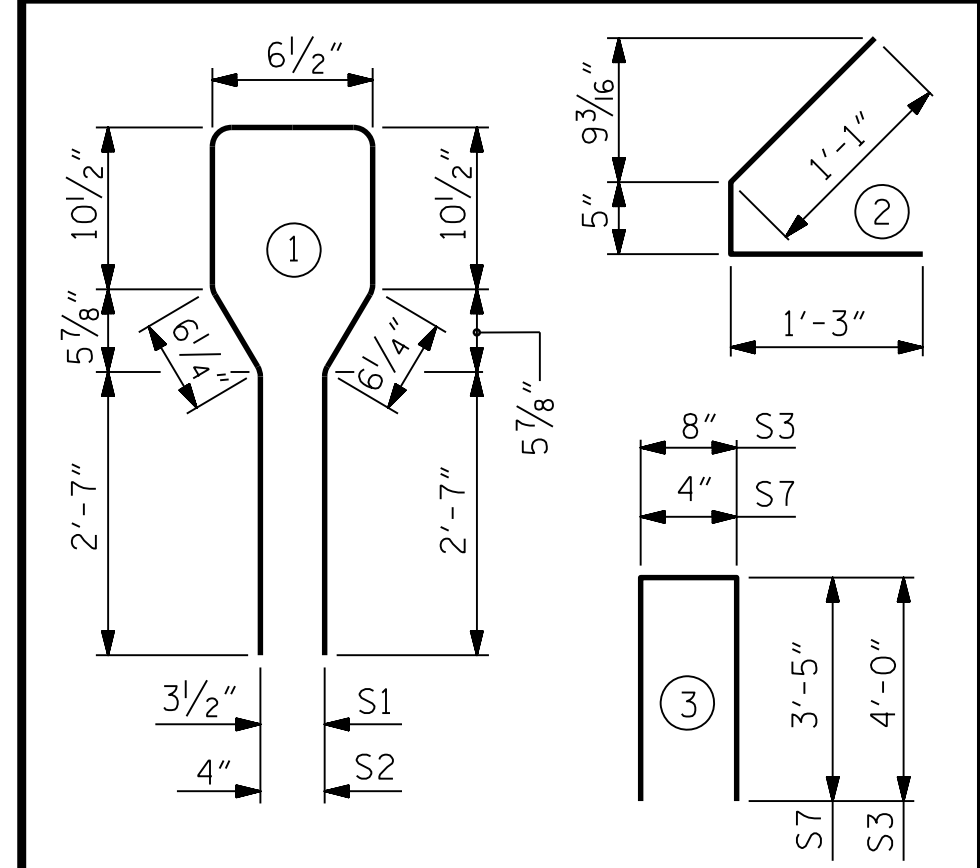
**0.6" Ø LOW RELAXATION STRAND LAYOUT**  
(34 STRANDS, ALL STRAIGHT, 8 DEBONDED STRANDS)  
DEBONDING LEGEND  
● FULLY BONDED STRANDS  
■ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

0.6" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE 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	76	#4	1	8'-6"	432
S2	12	#6	1	8'-6"	153
S3	4	#4	3	8'-8"	23
S4	60	#4	2	2'-9"	110
*S6	16	#5	STR	3'-8"	61
S7	2	#5	3	7'-2"	15
S8	5	#4	STR	7'-0"	23
S10	2	#3	STR	1'-0"	1

\*S6 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT TREATING SHALL NOT BE ALLOWED.

**BAR TYPES**



ALL BAR DIMENSIONS ARE OUT-TO-OUT

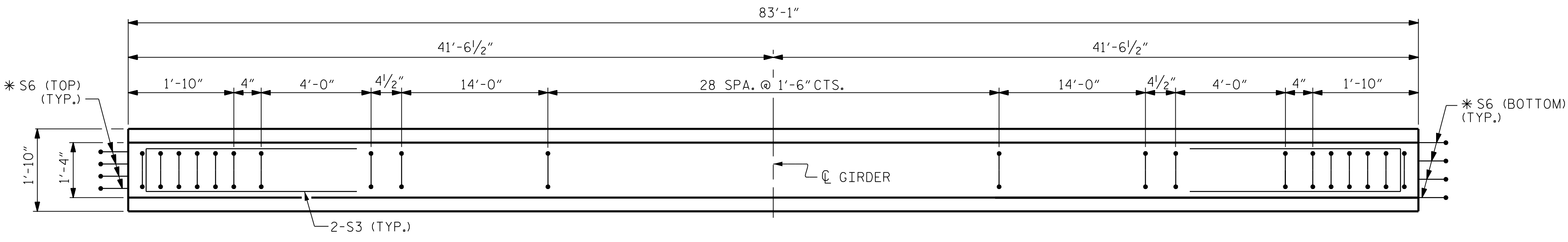
**QUANTITIES FOR ONE GIRDER**

	REINFORCING STEEL	9000 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
	817	12.0	34

**GIRDERS REQUIRED**

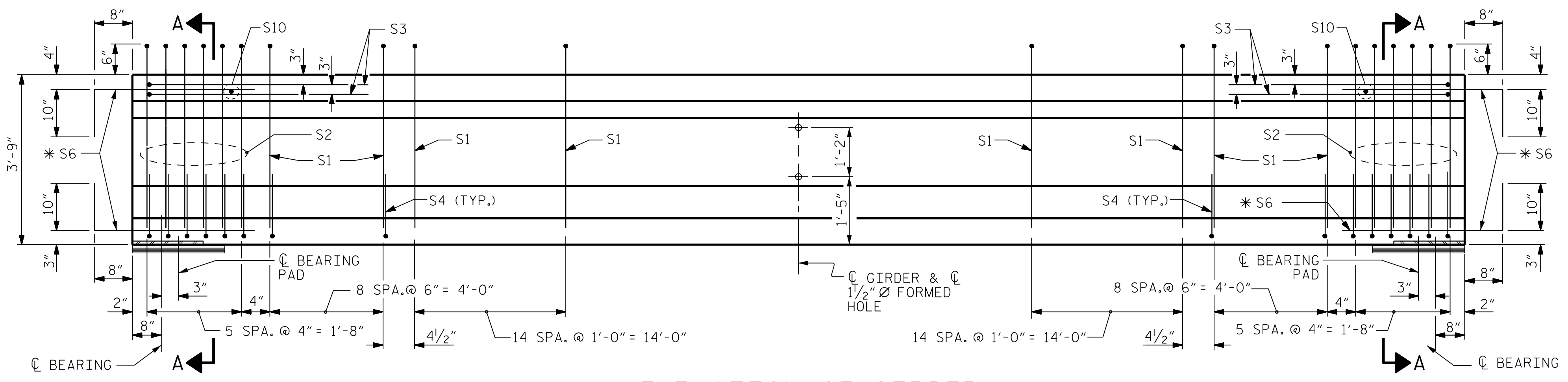
NUMBER	LENGTH	TOTAL LENGTH
6	83'-1"	498.50'

FOR PRESTRESSED GIRDER NOTES, SEE SHEET 2 OF 2.

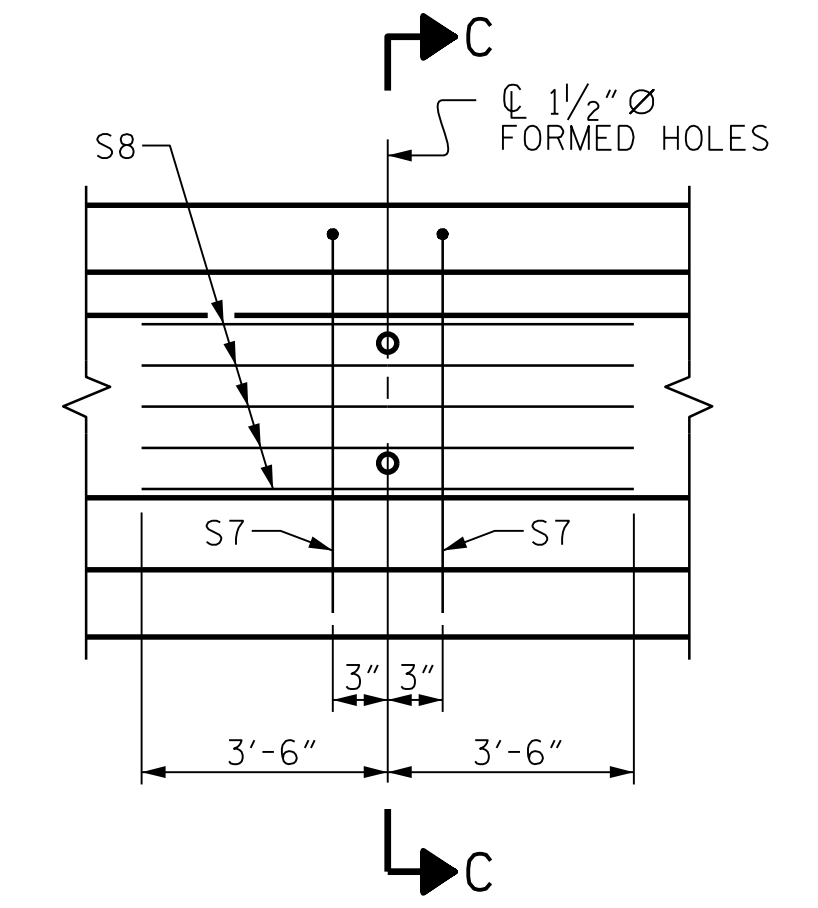


**PLAN OF GIRDER**

NO BEVEL REQUIRED AT END OF GIRDERS, ALL DIMENSIONS SHOWN ARE HORIZONTAL DISTANCE.



**ELEVATION OF GIRDER**  
(SEE PARTIAL ELEVATION FOR ADDITIONAL "S" BARS)



**PARTIAL ELEVATION**  
SHOWING INTERMEDIATE DIAPHRAGM REINFORCING STEEL FOR ALL GIRDERS

**END BENT 1**  
INTEGRAL

**END BENT 2**  
INTEGRAL

PROJECT NO. B-5624  
BRUNSWICK COUNTY  
STATION: 17+46.00 -L-

SHEET 1 OF 2

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
STANDARD  
AASHTO TYPE III  
PRESTRESSED CONCRETE GIRDER  
CONTINUOUS FOR LIVE LOAD  
SPAN A

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

TOTAL SHEETS: 20

**CDM Smith**  
CDM SMITH  
5400 Glenwood Avenue, Suite 400  
Raleigh, NC 27612-3228  
NC COA No. F-1255

NORTH CAROLINA PROFESSIONAL SEAL 16301 ENGINEER TUNG FANG HSUNG P.E.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	DRAWN BY: JJR DATE: 9/20	DATE: 9/20	DWG. No.
	CHECKED BY: THF DATE: 10/20	DATE: 10/20	
	DESIGN ENGINEER: VDK DATE: 11/20	DATE: 11/20	