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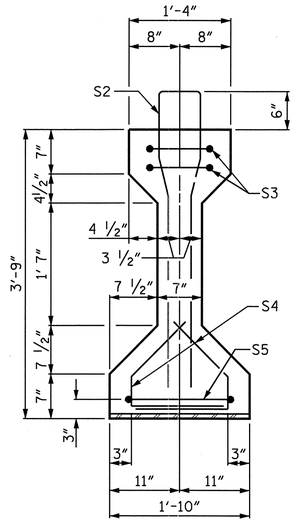
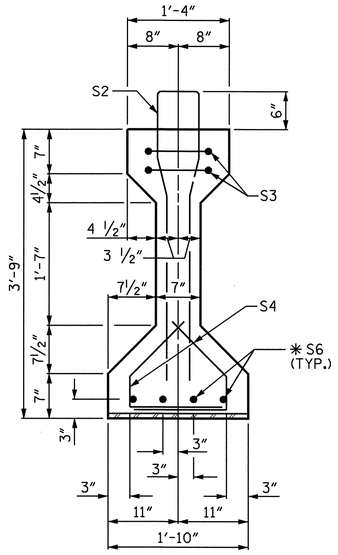
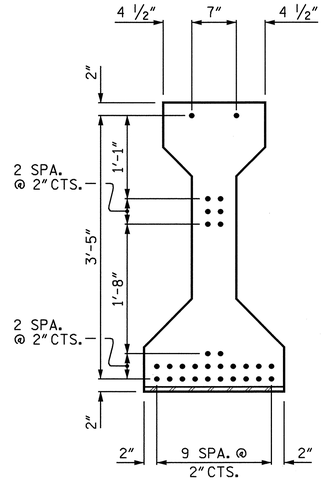


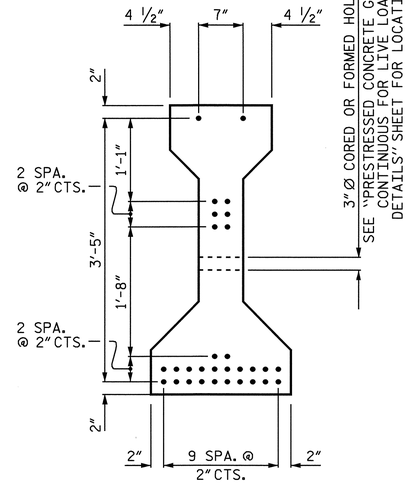
SECTION A-A



SECTION B-B

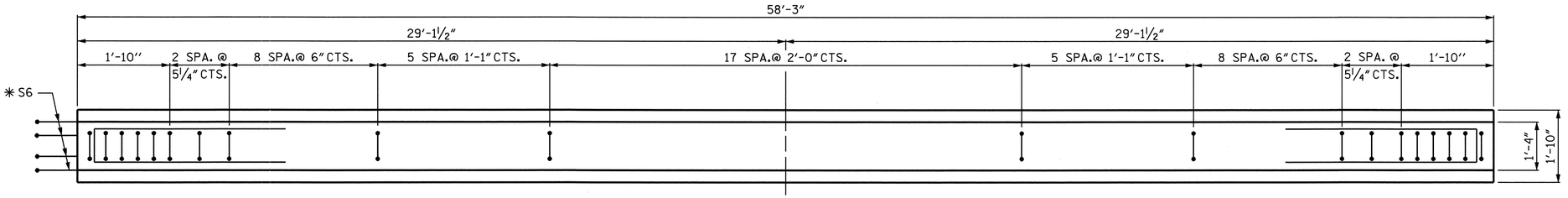


AT END OF GIRDER

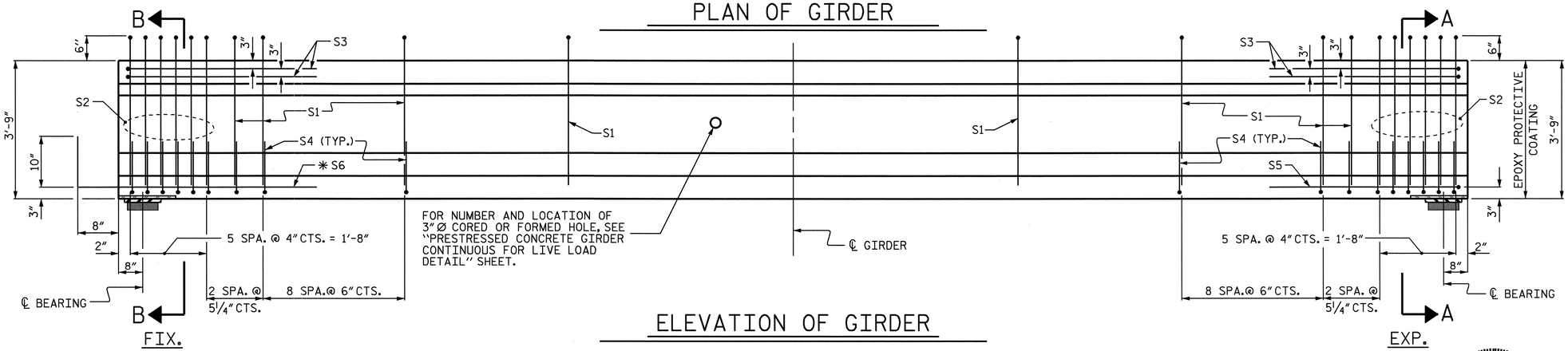


AT ℄ OF GIRDER

1/2" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



ELEVATION OF GIRDER

½" Ø L.R GRADE 270 STRANDS		
AREA (IN²)	ULTIMATE STRENGTH (LBS./STRAND)	APPLIED PRESTRESS (LBS./STRAND)
0.153	41,300	30,980

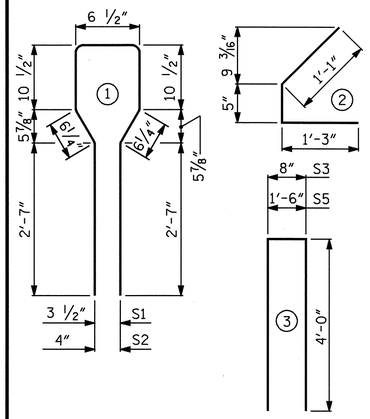
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	46	#4	1	8'-6"	261
S2	12	#6	1	8'-6"	153
S3	4	#4	3	8'-8"	23
S4	64	#4	2	2'-9"	118
S5	1	#4	3	9'-6"	6
✱S6	4	#5	STR	3'-8"	15

✱NOTE: S6 BARS SHALL BE BENT AFTER GIRDER FABRICATION AND BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT



QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	6500 PSI CONCRETE	½" Ø L.R. STRANDS
	LB.	C.Y.	No.
FOR ONE GIRDER	576	8.4	30

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
5	58'-3"	291.25

PROJECT NO. B-3623

CABARRUS COUNTY

STATION: 18+37.50 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

AASHTO TYPE III PRESTRESSED CONCRETE GIRDER CONTINUOUS FOR LIVE LOAD SPAN "C"

NORTH CAROLINA PROFESSIONAL SEAL 10757 ENGINEER ROBERT C. OUTLAW, JR.
12/12/03

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			34

ASSEMBLED BY : P.C. BREWER	DATE : 4/23/03	
CHECKED BY : S.B. WILLIAMS	DATE : 5/9/03	
DRAWN BY : ELR 8/91	REV. 2/6/97	EEM/RGW
CHECKED BY : GRP 8/91	REV. 7/17/98	RWW/LES
	REV. 10/17/00	RWW/LES

CADD STD. PCGS