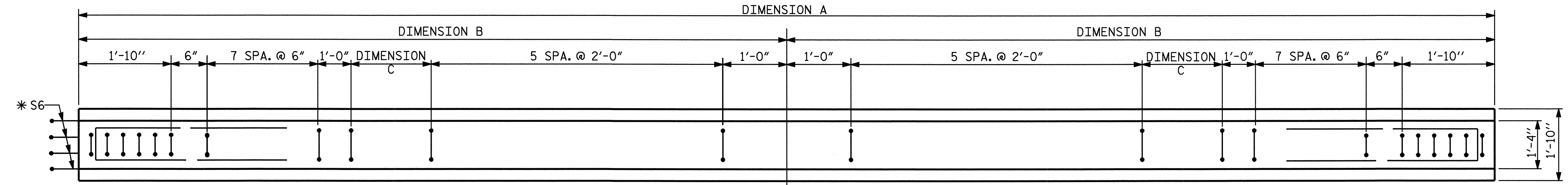
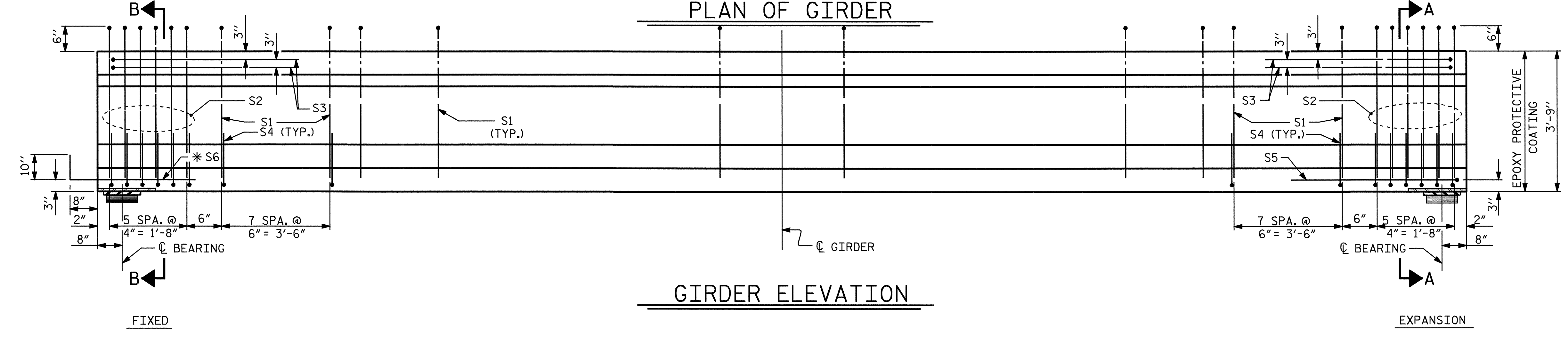


1/2" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER



GIRDER ELEVATION

GIRDER DIMENSIONS			
GIRDER	DIMENSION A	DIMENSION B	DIMENSION C
C1	37'-11 3/4"	18'-11 1/8"	1'-1 1/8"
C2	37'-11 1/2"	18'-11 3/4"	1'-1 3/4"
C3	37'-11 1/4"	18'-11 5/8"	1'-1 5/8"
C4	37'-11"	18'-11 1/2"	1'-1 1/2"
C5	37'-10 3/4"	18'-11 3/8"	1'-1 3/8"
C6	37'-10 1/2"	18'-11 1/4"	1'-1 1/4"

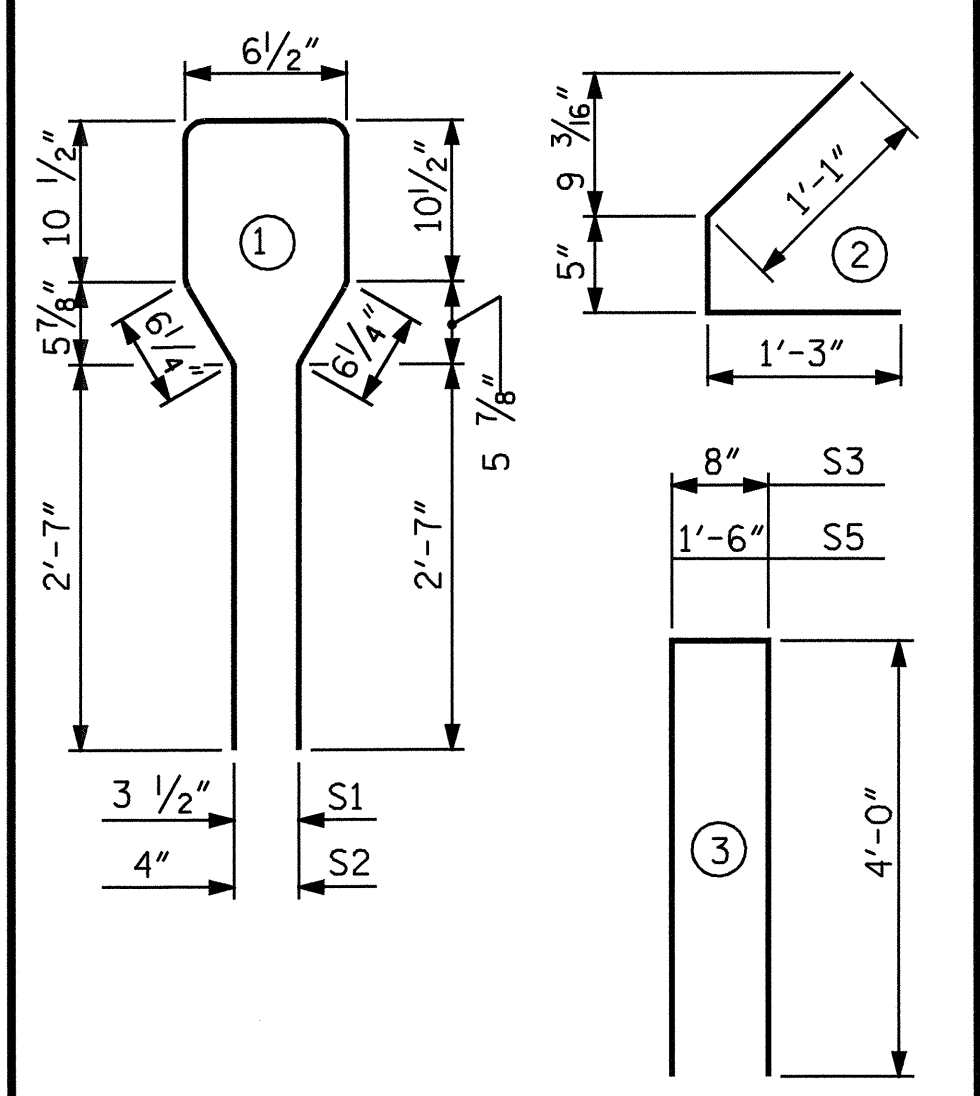
GIRDERS REQUIRED	
GIRDER	LENGTH
C1	37'-11 3/4"
C2	37'-11 1/2"
C3	37'-11 1/4"
C4	37'-11"
C5	37'-10 3/4"
C6	37'-10 1/2"
TOTAL LENGTH	227.56

1/2" Ø L. R. GRADE 270 STRANDS		
AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.153	41,300	30,980

REINFORCING STEEL FOR ONE GIRDER					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	30	#4	1	8'-6"	170
S2	12	#6	1	8'-6"	153
S3	4	#4	3	8'-8"	23
S4	56	#4	2	2'-9"	103
S5	1	#4	3	9'-6"	6
*S6	4	#5	STR	3'-8"	15

* 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			
GIRDER	REINFORCING STEEL LB.	5000 PSI CONCRETE C.Y.	1/2" Ø L.R. STRANDS No.
C1-C6	470	5.5	10

PROJECT NO. B-3694
ROCKINGHAM COUNTY
STATION: 17+27.50 -L-

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



ASSEMBLED BY : A.R.CHESSON	DATE : 5-04	CADD STANDARD
CHECKED BY : B.N.GRADY	DATE : 8-04	
DRAWN BY : RB	2/97	
CHECKED BY : VP	2/97	

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

TOTAL SHEETS	36
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