

1/2" Ø LOW RELAXATION STRAND LAYOUT

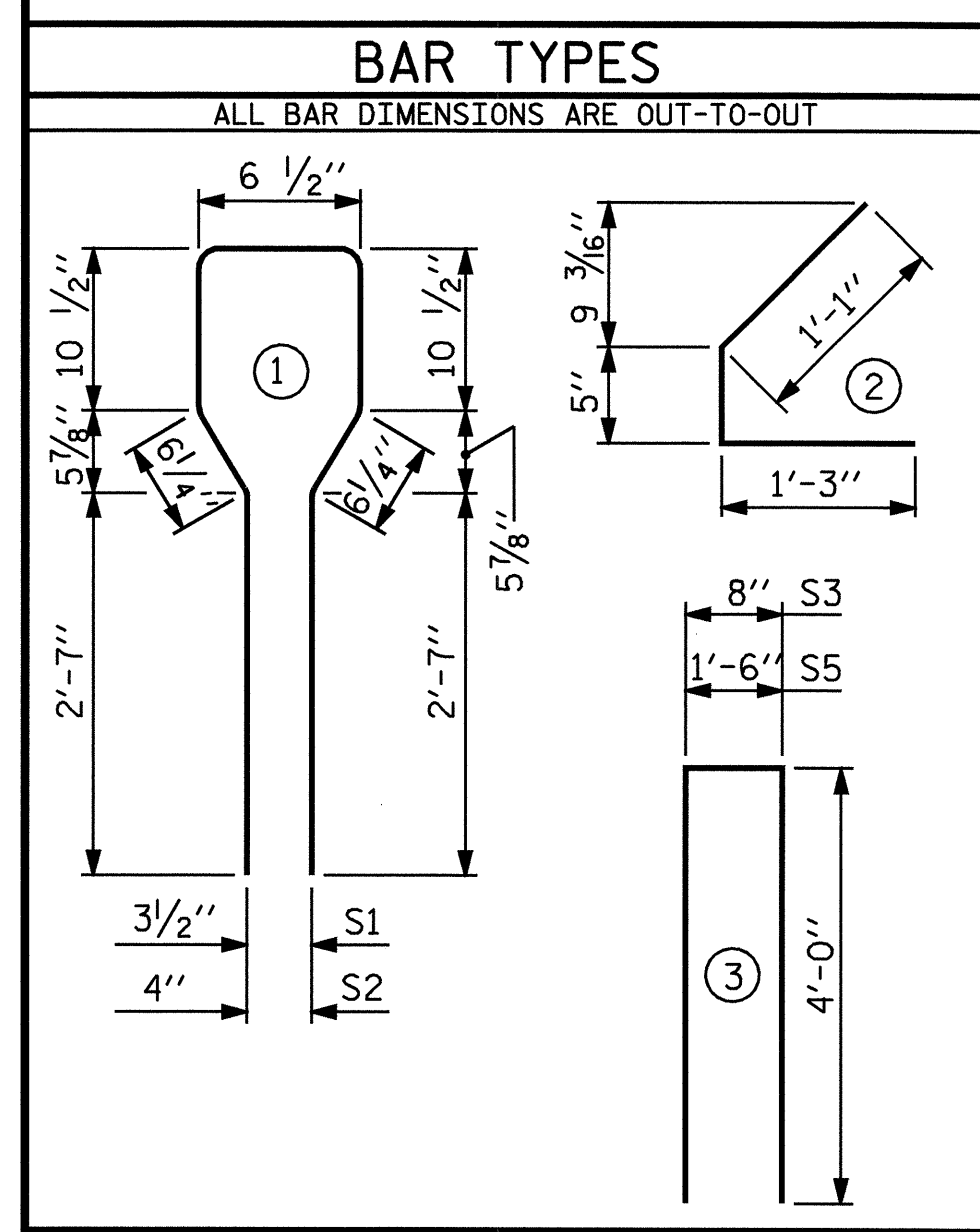
SPAN "A"		
GIRDER	"A"	"B"
A1	35'-10 <sup>5</sup> / <sub>16</sub> "	1'-1 <sup>1</sup> / <sub>2</sub> "
A2	35'-10 <sup>3</sup> / <sub>16</sub> "	1'-1 <sup>5</sup> / <sub>16</sub> "
A3	35'-10 <sup>3</sup> / <sub>16</sub> "	1'-1 <sup>1</sup> / <sub>8</sub> "
A4	35'-9 <sup>7</sup> / <sub>8</sub> "	1'-0 <sup>5</sup> / <sub>16</sub> "
A5	35'-9 <sup>3</sup> / <sub>4</sub> "	1'-0 <sup>7</sup> / <sub>8</sub> "
A6	35'-9 <sup>3</sup> / <sub>8</sub> "	1'-0 <sup>11</sup> / <sub>16</sub> "
A7	35'-9 <sup>1</sup> / <sub>16</sub> "	1'-0 <sup>9</sup> / <sub>16</sub> "
A8	35'-8 <sup>3</sup> / <sub>4</sub> "	1'-0 <sup>3</sup> / <sub>8</sub> "
A9	35'-8 <sup>3</sup> / <sub>8</sub> "	1'-0 <sup>3</sup> / <sub>16</sub> "
A10	35'-8 <sup>1</sup> / <sub>16</sub> "	1'-0 <sup>1</sup> / <sub>16</sub> "
A11	35'-7 <sup>3</sup> / <sub>4</sub> "	11 <sup>7</sup> / <sub>8</sub> "
A12	35'-7 <sup>1</sup> / <sub>16</sub> "	11 <sup>3</sup> / <sub>4</sub> "
A13	35'-7 <sup>1</sup> / <sub>8</sub> "	11 <sup>9</sup> / <sub>16</sub> "

SPAN "C"		
GIRDER	"A"	"B"
C1	35'-11 <sup>1</sup> / <sub>16</sub> "	1'-1 <sup>9</sup> / <sub>16</sub> "
C2	35'-10 <sup>3</sup> / <sub>16</sub> "	1'-1 <sup>7</sup> / <sub>16</sub> "
C3	35'-10 <sup>1</sup> / <sub>2</sub> "	1'-1 <sup>1</sup> / <sub>4</sub> "
C4	35'-10 <sup>3</sup> / <sub>16</sub> "	1'-1 <sup>1</sup> / <sub>8</sub> "
C5	35'-10 <sup>1</sup> / <sub>16</sub> "	1'-1 <sup>1</sup> / <sub>16</sub> "
C6	35'-9 <sup>3</sup> / <sub>16</sub> "	1'-0 <sup>5</sup> / <sub>16</sub> "
C7	35'-9 <sup>1</sup> / <sub>2</sub> "	1'-0 <sup>3</sup> / <sub>4</sub> "
C8	35'-9 <sup>1</sup> / <sub>4</sub> "	1'-0 <sup>5</sup> / <sub>8</sub> "
C9	35'-9"	1'-0 <sup>1</sup> / <sub>2</sub> "
C10	35'-8 <sup>11</sup> / <sub>16</sub> "	1'-0 <sup>3</sup> / <sub>8</sub> "
C11	35'-8 <sup>7</sup> / <sub>16</sub> "	1'-0 <sup>1</sup> / <sub>4</sub> "
C12	35'-8 <sup>3</sup> / <sub>16</sub> "	1'-0 <sup>1</sup> / <sub>8</sub> "
C13	35'-7 <sup>15</sup> / <sub>16</sub> "	1'-0"

1/2" Ø L. R. GRADE 270 STRANDS		
AREA (SQ. 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	33	#4	1	8'-6"	187
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.



QUANTITIES FOR ONE GIRDER		
REINFORCING STEEL LB.	5000 PSI CONCRETE C.Y.	1/2" Ø L.R. STRANDS No.
487	5.2	10

GIRDERS REQUIRED		
NUMBER	LENGTH (VARIES (SEE TABLE))	TOTAL LENGTH
26		930'-0 <sup>11</sup> / <sub>16</sub> "

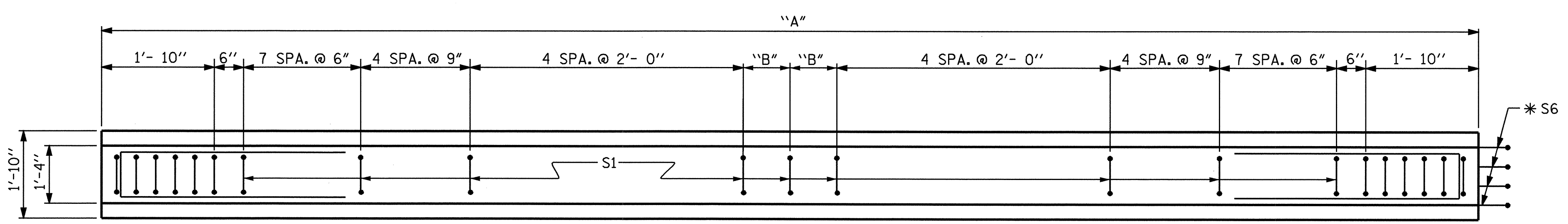
PROJECT NO. U-0620  
 CUMBERLAND COUNTY  
 STATION: 32+18.00 -L-

SHEET 1 OF 3

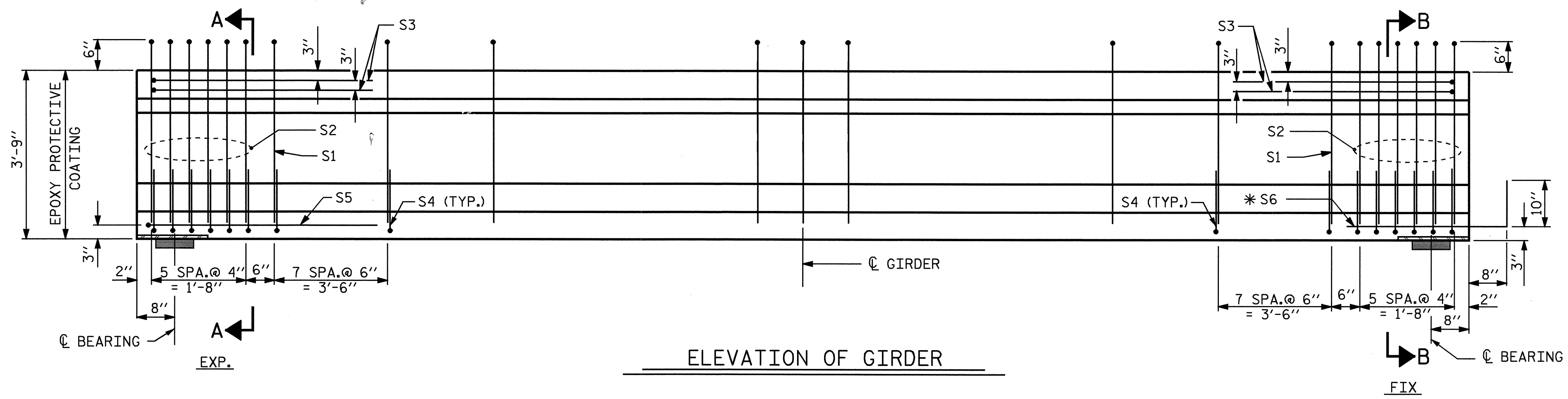
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 STANDARD  
 AASHTO TYPE III  
 PRESTRESSED CONCRETE GIRDER  
 CONTINUOUS FOR LIVE LOAD  
 SPANS "A" & "C"

NOVEMBER 1991

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-17	
1			3			TOTAL SHEETS 127	
2			4				



PLAN OF GIRDER



ELEVATION OF GIRDER

ASSEMBLED BY : M. G. SHAIKH	DATE : 5-12-03
CHECKED BY : D. A. GLADDEN	DATE : 07-03
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

