

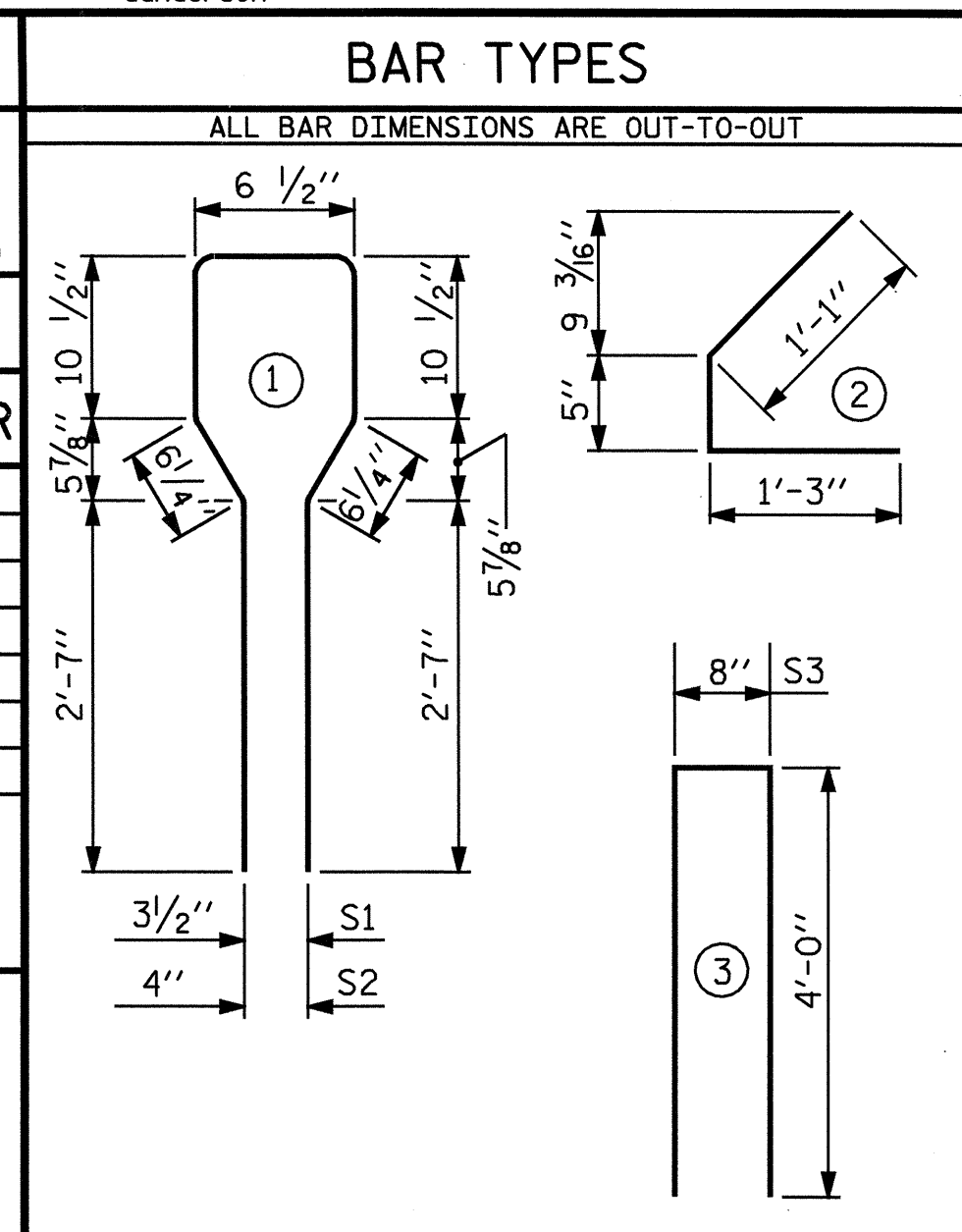
1/2" Ø L. R. GRADE 270 STRANDS

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	62	#4	1	8'-6"	352
S2	12	#6	1	8'-6"	153
S3	4	#4	3	8'-8"	23
S4	56	#4	2	2'-9"	103
*S6	8	#5	STR	3'-8"	31

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

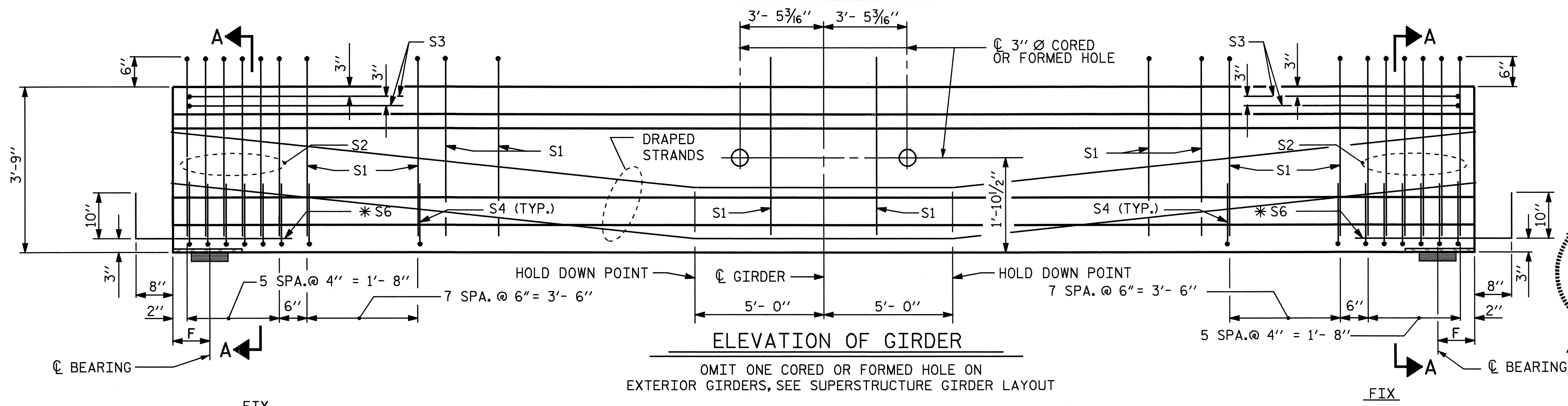
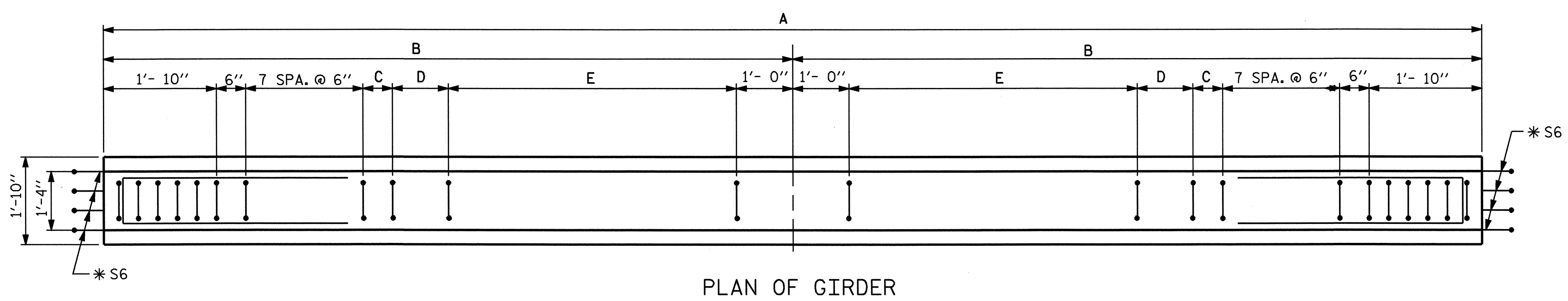


QUANTITIES FOR EACH GIRDER

	REINFORCING STEEL LB.	7,000 PSI CONCRETE C.Y.	1/2" Ø L.R. STRANDS No.
B1	662	9.9	34
B2	662	9.9	34
B3	662	10.0	34
B4	662	10.0	34

GIRDERS REQUIRED

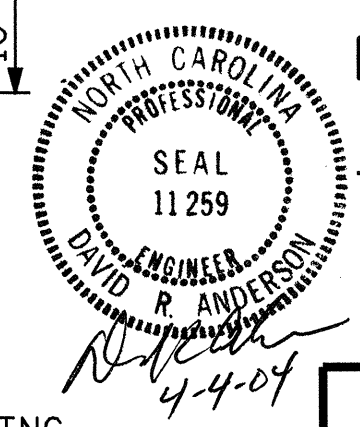
NUMBER	LENGTH	TOTAL LENGTH
B1	68'-10"	68'-10"
B2	69'-1"	69'-1"
B3	69'-4"	69'-4"
B4	69'-6"	69'-6"



GIRDER DIMENSIONS

GIRDER	A	B	C	D	E	F
B1	68'-10"	34'-5"	7"	2 SPA. @ 1'-0"	20 SPA. @ 1'-3"	8 1/16"
B2	69'-1"	34'-6 1/2"	8 1/2"	2 SPA. @ 1'-0"	20 SPA. @ 1'-3"	8"
B3	69'-4"	34'-8"	10"	2 SPA. @ 1'-0"	20 SPA. @ 1'-3"	8"
B4	69'-6"	34'-9"	8"	1'-0"	21 SPA. @ 1'-3"	7 1/2"

THE CONTRACTORS' ATTENTION IS CALLED TO THE FACT THAT THE CONCRETE STRENGTH REQUIRED IS 7,000 PSI.
THE UPLIFT FORCE DUE TO DRAPED STRANDS IS 25.2 KIPS



PROJECT NO. B-3649
 GUILFORD COUNTY
 STATION: 17+39.20 -L

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

STANDARD
 AASHTO TYPE III
 PRESTRESSED CONCRETE GIRDER
 SPAN B

ASSEMBLED BY : N. Q. TRAN DATE : 4-14-03
 CHECKED BY : T. A. WALTER DATE : 9-30-03
 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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			12
2			4			32