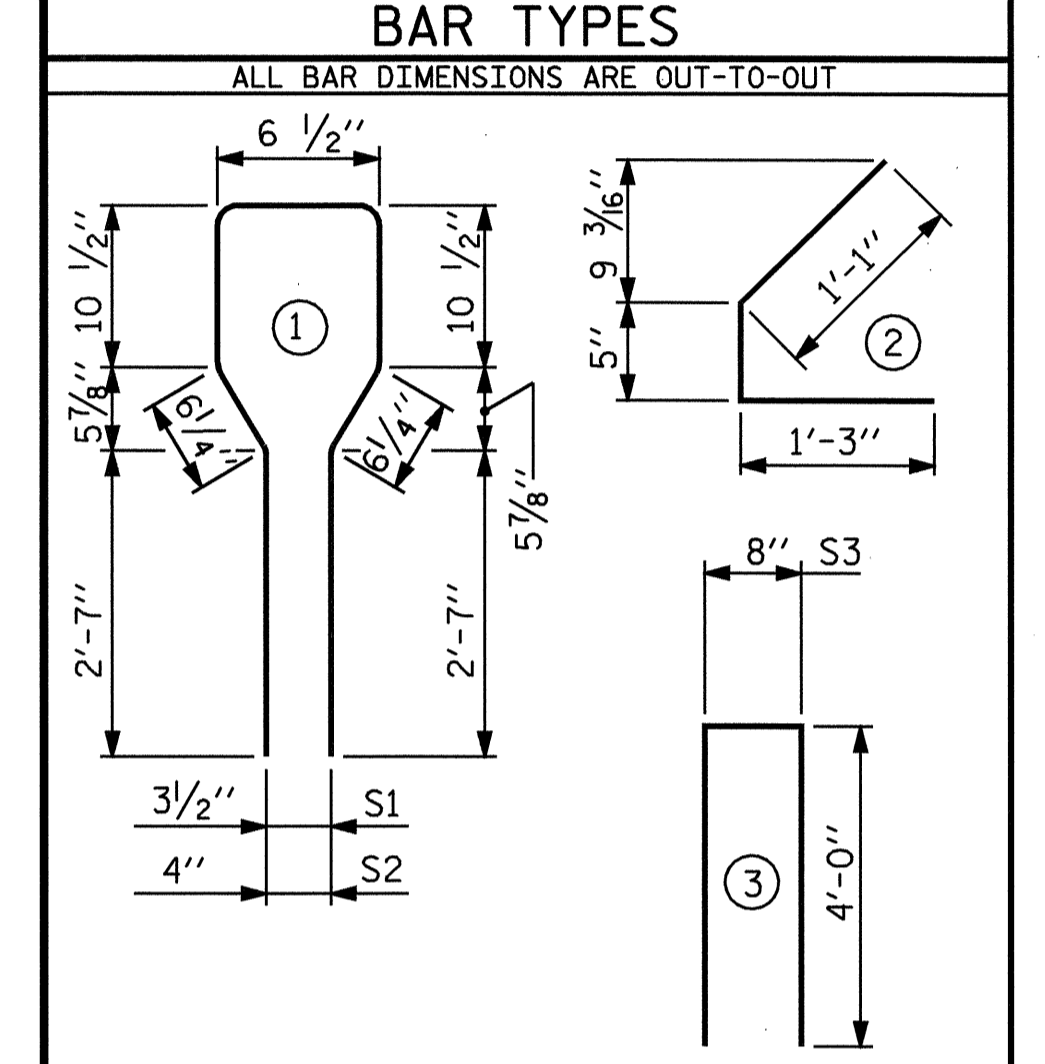


GIRDER DIMENSIONS					
GIRDER	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E
B1	63'-10 1/2"	31'-11 1/4"	5 1/4"	11 SPA. @ 8" = 7'-4"	20 SPA. @ 1'-10" = 36'-8"
B2	64'-1"	32'-0 1/2"	6 1/2"	11 SPA. @ 8" = 7'-4"	20 SPA. @ 1'-10" = 36'-8"
B3	64'-3 3/8"	32'-1 3/16"	7 13/16"	11 SPA. @ 8" = 7'-4"	20 SPA. @ 1'-10" = 36'-8"
B4	64'-6 3/8"	32'-3 3/16"	9 3/16"	11 SPA. @ 8" = 7'-4"	20 SPA. @ 1'-10" = 36'-8"

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	59	#4	1	8'-6"	335
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 ONE GIRDER			
SPAN B	REINFORCING STEEL LB.	5,000 PSI CONCRETE C.Y.	1/2" Ø L.R. STRANDS No.
GIRDER 1	645	9.2	24
GIRDER 2	645	9.2	24
GIRDER 3	645	9.3	24
GIRDER 4	645	9.3	24

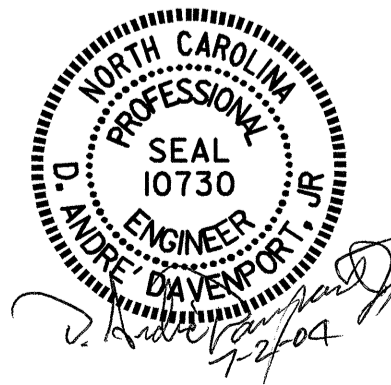
GIRDERS REQUIRED		
SPAN B	NUMBER	LENGTH
GIRDER 1	1	63'-10 1/2"
GIRDER 2	1	64'-1"
GIRDER 3	1	64'-3 3/8"
GIRDER 4	1	64'-6 3/8"
TOTAL LENGTH	4	256'-9 1/2"

PROJECT NO. B-3506
RANDOLPH COUNTY
 STATION: 17+97.50-L-
 SHEET 2 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

AASHTO TYPE III
 PRESTRESSED CONCRETE
 GIRDER CONTINUOUS
 FOR LIVE LOAD
 SPAN B

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	5-12
1			3			TOTAL SHEETS 35
2			4			



ASSEMBLED BY: H. T. BARBOUR DATE: 12-05-03
 CHECKED BY: D. A. DAVENPORT DATE: 3-04
 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