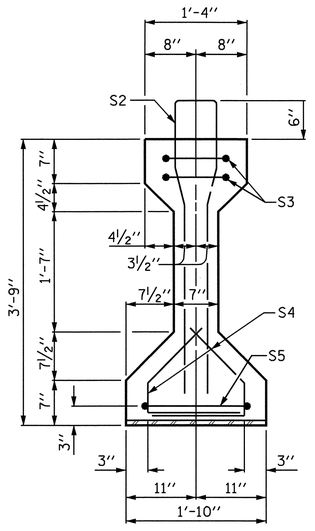
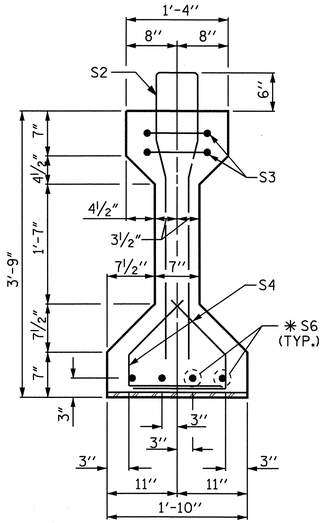
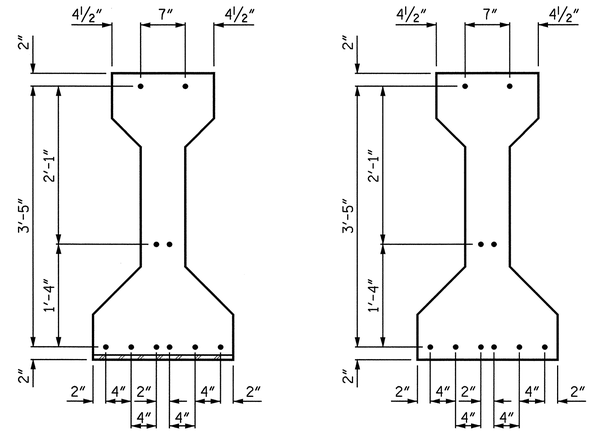
W:\squadv\b3885\pbrewer\Microstation\B3885_sd_G1_01.dgn
doutlaw



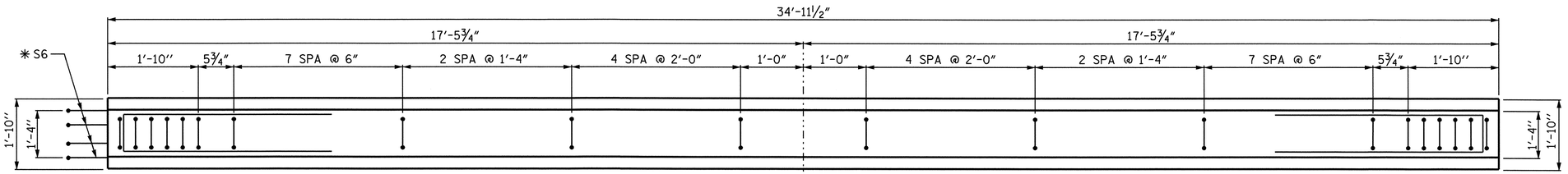
SECTION A-A



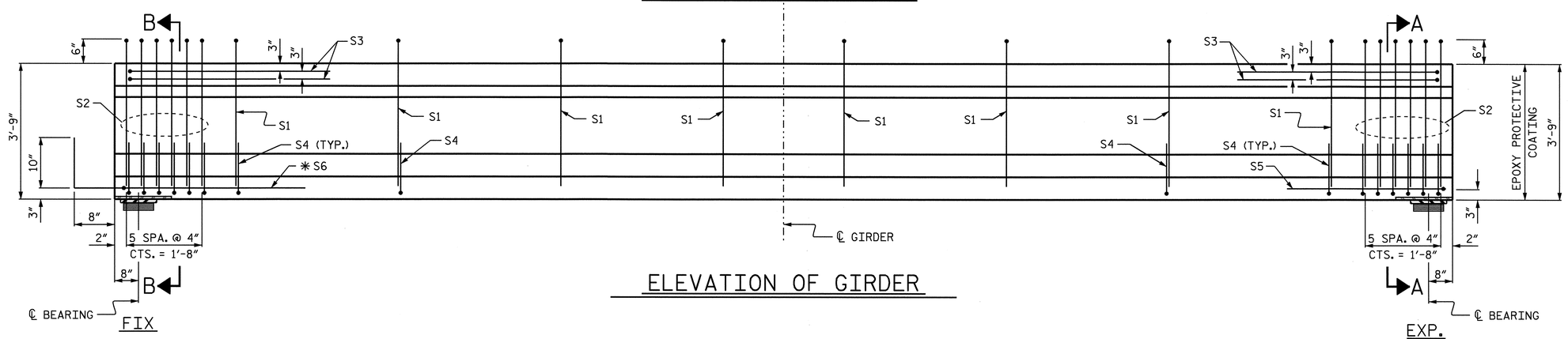
SECTION B-B



½"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

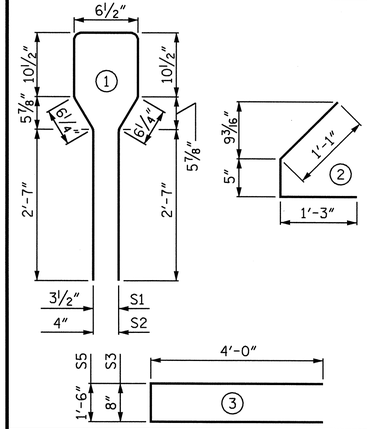
REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	28	#4	1	8'-6"	159
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 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	5000 PSI CONCRETE	½"Ø L.R. STRANDS
	LB.	C.Y.	No.
FOR ONE GIRDER	459	5.0	10

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	34'-11½"	139.83

PROJECT NO. B-3885

ORANGE COUNTY

STATION: 17+75.00 -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 ALBERT C. OUTLAW, Jr.
3/23/04

ASSEMBLED BY : P.C. BREWER	DATE : 7/22/03
CHECKED BY : S.B. WILLIAMS	DATE : 7/31/03
DRAWN BY : RB 2/97	REV. 10/99 MAB/LES
CHECKED BY : VP 2/97	

CADD STANDARD

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			33