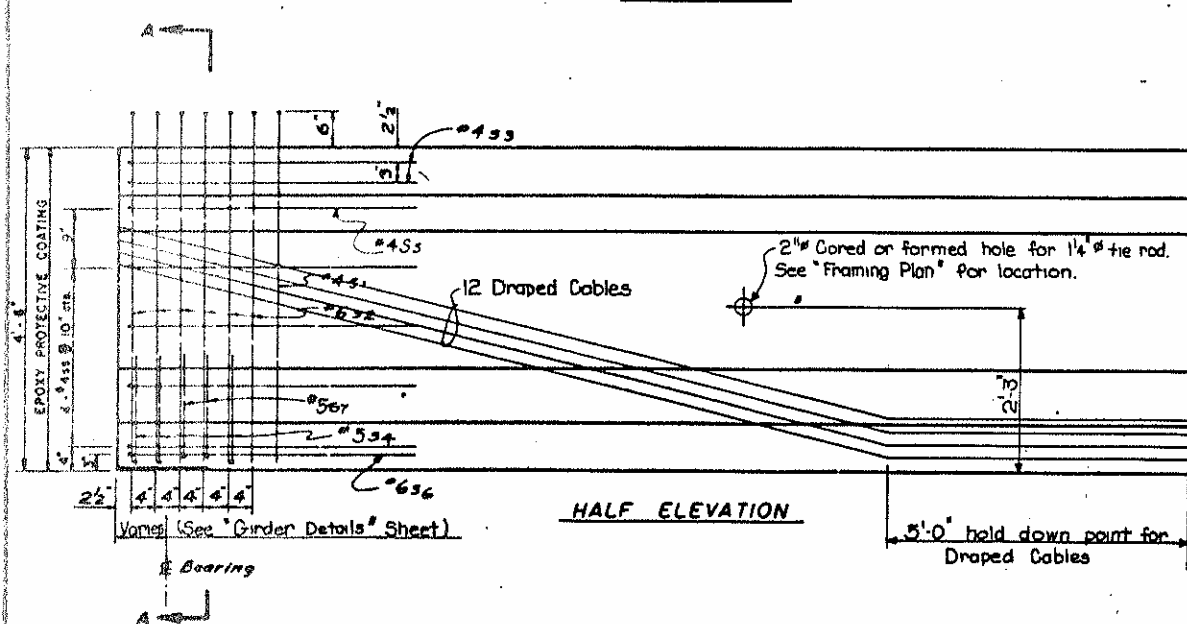
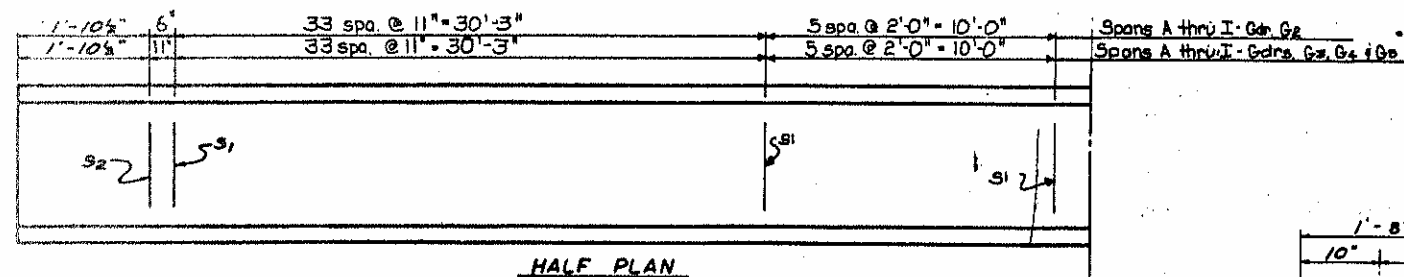
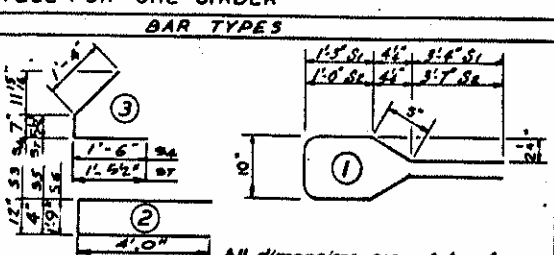


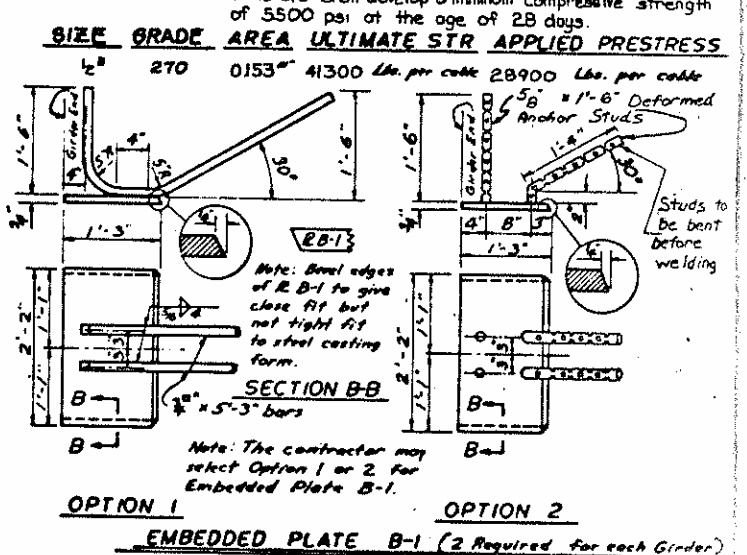
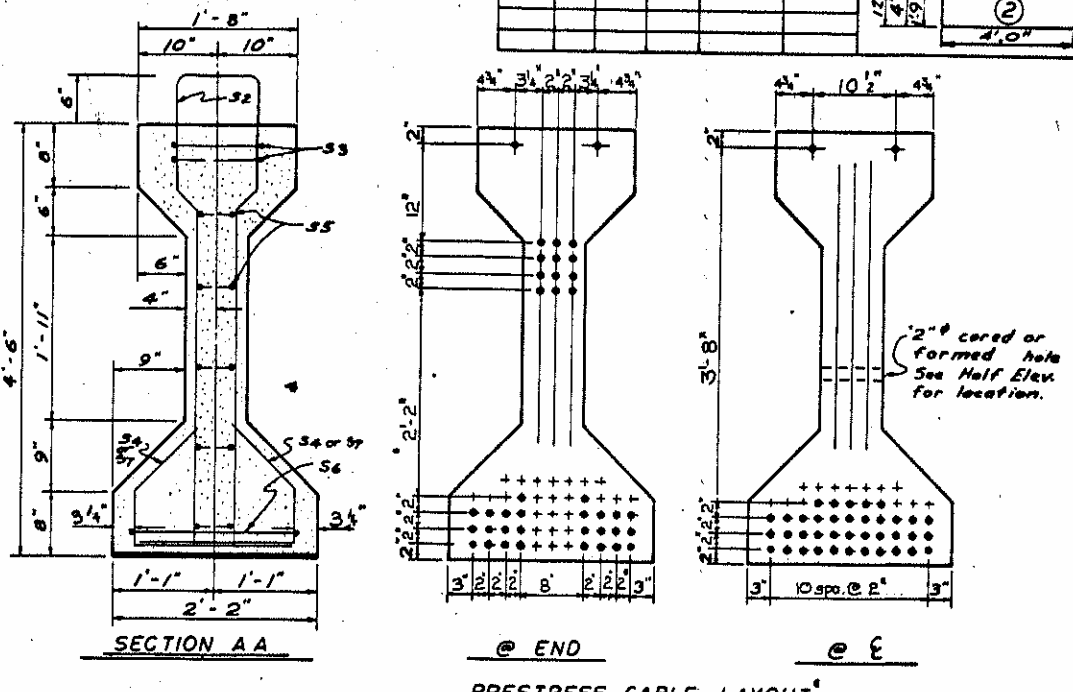
REVISED 7-9-81 BY: REX / BY: R.D.U.
 Revised 4-10-81 BY: REX / BY: R.D.U.
 Revised 3-20-80 BY: R.D.U. / BY: R.G.F.
 Revised 12-19-78 BY: REX / BY: G.B.H.
 Revised 7-14-74 BY: REX / BY: R.D.U.



REINFORCING STEEL FOR ONE GIRDER					
Bar	No.	Size	Type	Length	Weight
#1	78	#4	1	10'-10"	564
#2	12	#6	1	10'-10"	195
#3	4	#4	2	9'-0"	24
#4	12	#5	3	3'-5"	43
#5	10	#4	2	8'-4"	56
#6	2	#6	2	9'-9"	29
#7	8	#5	3	9'-8"	27



- NOTES**
- ELASTOMER IN ALL BEARINGS SHALL HAVE A GRADE SO DIRMETER HARDNESS. SEE SPECIAL PROVISIONS.
 - STEEL PLATES IN LAMINATED BEARINGS SHALL CONFORM TO ASTM A-36.
 - APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES.
 - FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.
 - EMBEDDED PLATE B-1 TO BE GALVANIZED.
 - DEFORMED ANCHOR STUDS SHALL CONFORM TO ASTM A-496. WELDING PROCEDURE QUALIFICATION TEST FOR DEFORMED ANCHOR STUDS MAY BE REQUIRED.
 - ALL PRESTRESSING STRANDS SHALL BE 1/2" 7-WIRE STRESS RELIEVED GRADE 270 CABLES IN ACCORDANCE WITH THE SPECIFICATIONS.
 - Concrete shall develop a minimum compressive strength of 5500 psi at the age of 28 days.



DEAD LOAD DEFLECTIONS AND ORDINATES						
Span	Girder	Damper (Girder alone in place)	Deflection due to superimposed Dead Load	Final Deflection	Vertical Curve ordinate	Superelevation ordinate
A thru I	G2, G3, G4	11'6"	1 1/4"	9 1/2"	15 1/2"	3 1/8"
A thru I	G5	11'6"	1 1/8"	7 1/2"	15 1/2"	3 1/8"
B thru H	G5	11'6"	1 1/2"	3 1/2"	15 1/2"	3 1/8"

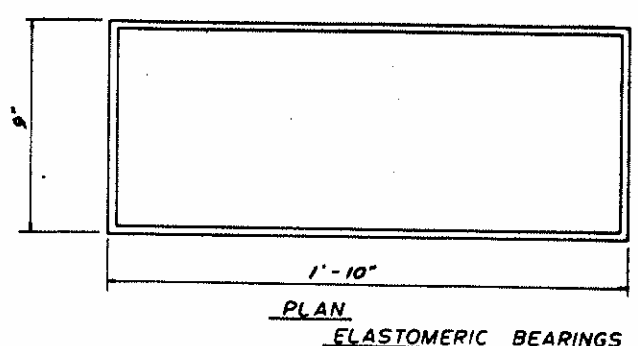
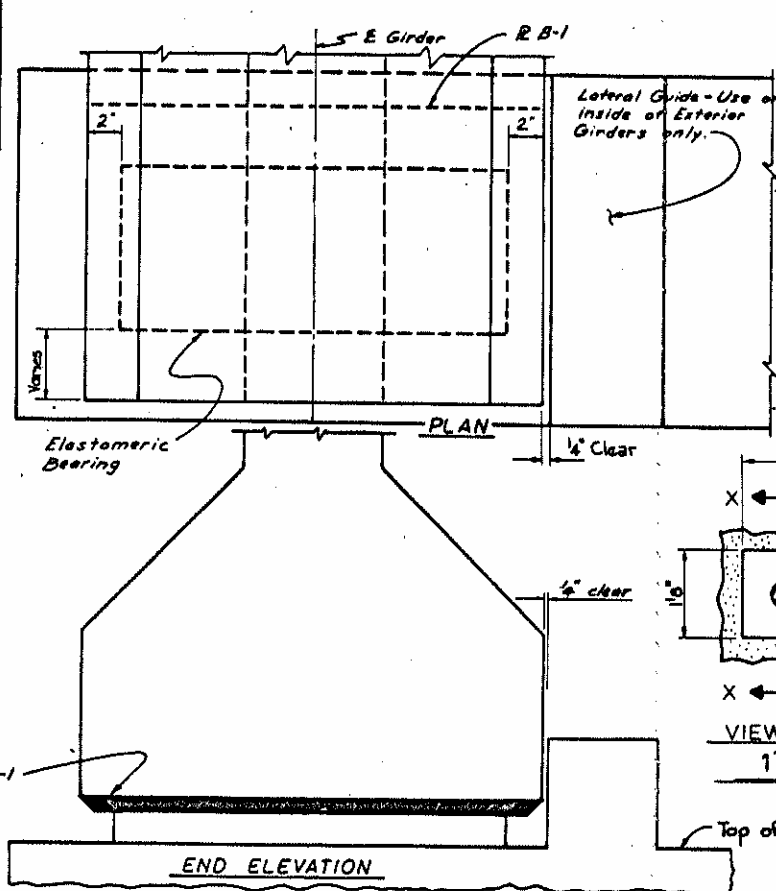
* Includes future wearing surface in superimposed dead load.

GIRDERS REQUIRED				
Span	Girder	No.	Length	Total Length
A thru F	G2	6	86'-11 3/16"	521'-7 3/8"
A thru F	G3	6	87'-3 1/16"	523'-10 3/8"
A thru F	G4	6	87'-8 1/8"	526'-0 3/4"
A thru F	G5	6	88'-0 9/16"	528'-3 3/8"
G thru I	G2	3	86'-11 3/16"	260'-9 9/16"
G thru I	G3	3	87'-3 1/16"	261'-11 1/16"
G thru I	G4	3	87'-8 1/8"	263'-0 3/8"
G thru I	G5	3	88'-0 9/16"	264'-1 1/16"

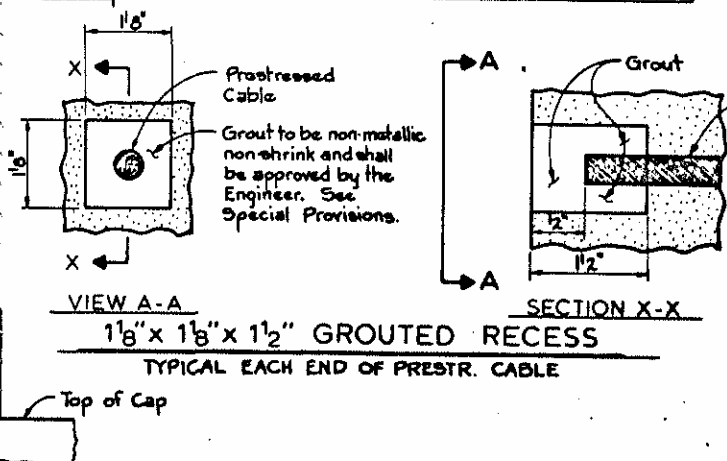
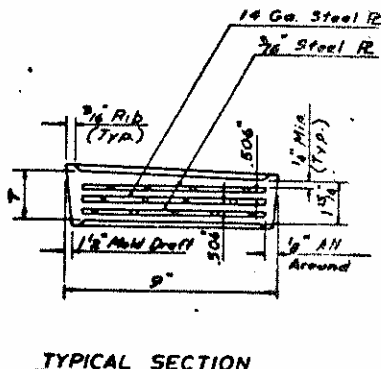
Note: Girder lengths shown for Span G thru I. Girders G2, G3, G4, & G5 are slope lengths. Ends of girders for Spans G thru I - Girders G2, G3, G4 & G5 to be beveled. See "Girder Details" sheet.

Note: For 1 1/4" tie rod details, see Girder Standard sheets 1 of 4 and 3 of 4.

QUANTITIES FOR ONE GIRDER				
Span	Girder	Reinforcing Steel, lbs.	5500 psi Concrete, cu yd.	Grade 270 Cables, lbs.
A thru I	G2	938	17.6	40
A thru I	G3	938	17.7	40
A thru I	G4	938	17.8	40
A thru I	G5	938	17.9	40



BEAM GRADE %	T (Inches)	BEARING TYPES
0.00 - 1.00	1 1/8"	P-1
1.00 - 2.25	2 1/8"	P-2
2.25 - 3.50	2 3/8"	P-3
3.50 - 5.00	2 7/8"	P-4



PROJECT No. 8.198.1901

SWAIN COUNTY

STATION: 181+35 Med. Rev.

STATE OF NORTH CAROLINA				
DEPARTMENT OF TRANSPORTATION				
RALEIGH				
STANDARD 54" PRESTRESSED CONCRETE GIRDER				
SPANS A THRU I - Girders G2, G3, G4 & G5				
JULY 1978				
REV.	BY	DATE	REV.	DATE
1	JST	2-19-82	2	

STD. NO. PCG3

