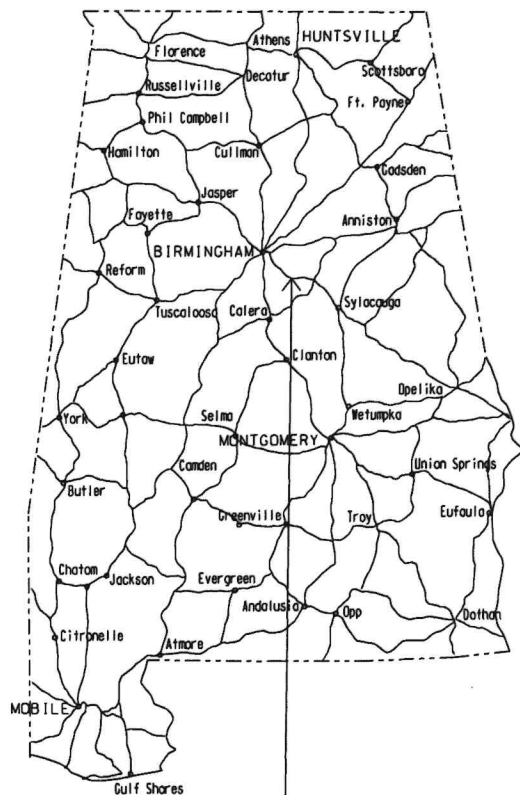


SHELBY COUNTY HIGHWAY DEPARTMENT

PLANS OF PROPOSED PROJECT NUMBER

SCP 59-992-26

BRIDGE PAINTING ON CR-43 OVER
NORTH FORK OF YELLOWLEAF CREEK
(BIN 12024)



INDEX TO PROJECT

① BRIDGE PAINTING ON CR-43 OVER
NORTH FORK OF YELLOWLEAF CREEK
(BIN 12024)

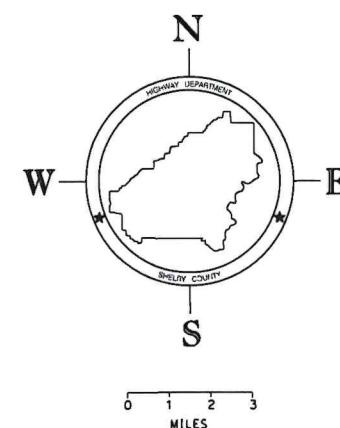
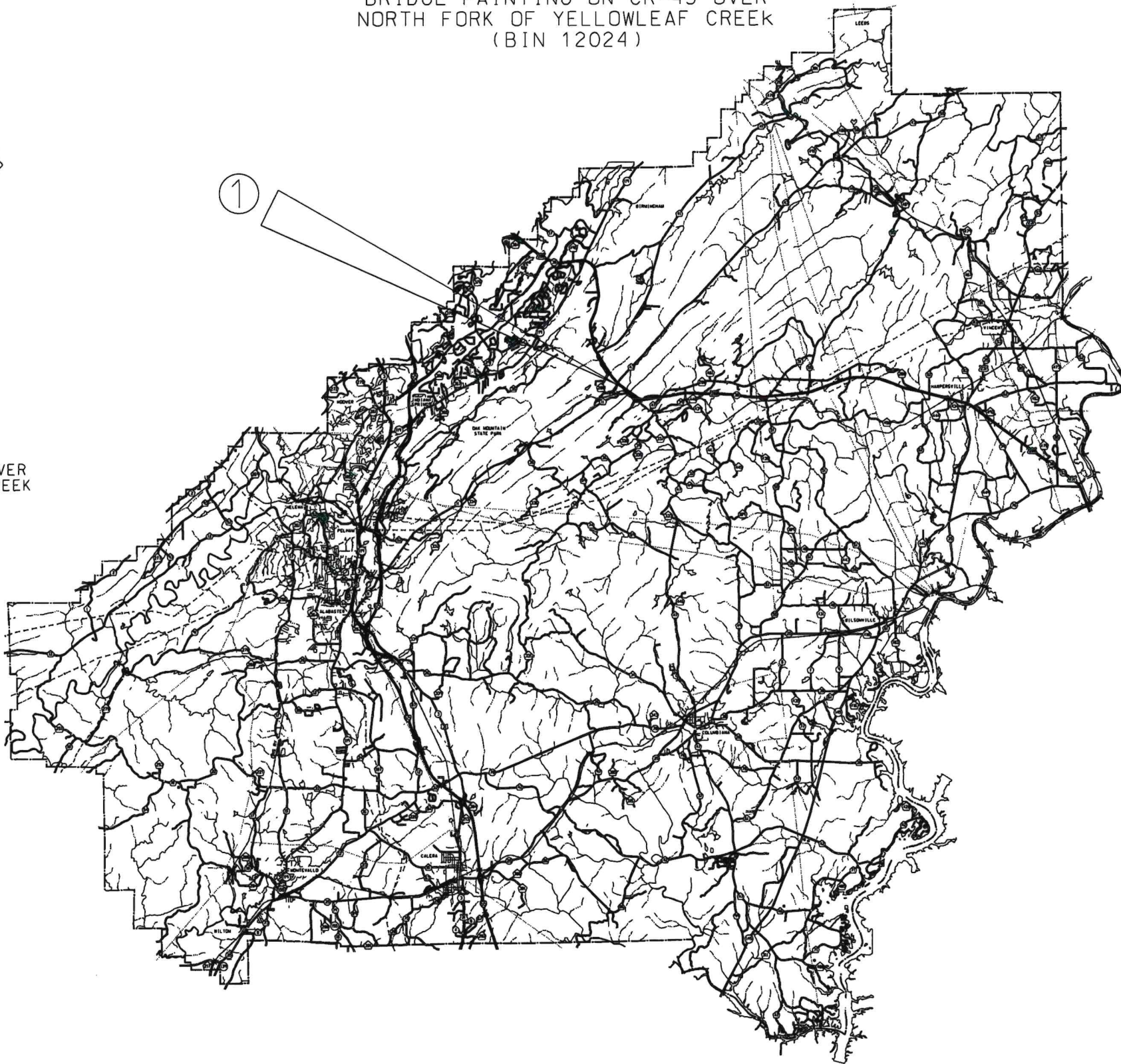
	FEET	MILE
TOTAL STATIONING OF PROJECT	0.000	
EQUATIONS AND EXCEPTIONS	0.000	
NET LENGTH OF PROJECT	309.21	0.059
NET LENGTH OF BRIDGES	309.21	0.059
NET LENGTH OF ROADWAY	0.00	0.059

DESIGN DESIGNATION

ADT (2024) = 3,310 VPD
V (DESIGN SPEED) = 40 MPH

COUNTY COMMISSIONERS

DISTRICT #1 KEVIN MORRIS	DISTRICT #2 TOMMY EDWARDS
DISTRICT #3 JON PARKER	DISTRICT #4 WARD WILLIAMS
DISTRICT #5 BLWYN BEARDON	DISTRICT #6 JOHN SISK
DISTRICT #7 LINDSEY ALLISON	DISTRICT #8 RICK SHEPHERD
DISTRICT #9 ROBBIE HAYES	



LEGEND

INTERSTATE HIGHWAY	—
U.S. HIGHWAY	—
STATE HIGHWAY	—
GRADED & DRAINED ROAD	—
COUNTY PAVED ROAD	—
RAILROAD	—

NOTE: THESE PLANS HAVE BEEN PREPARED TO CONFORM
WITH ALABAMA HIGHWAY DEPARTMENT STANDARD
SPECIFICATIONS DATED 2022.

ENGINEER OF RECORD

Mark Endfinger
MARK ENDFINGER, P.E., CHIEF ENGINEER

APPROVED FOR CONSTRUCTION

David Willingham
DAVID WILLINGHAM, P.E., COUNTY ENGINEER

SUMMARY OF QUANTITIES

REFERENCE
PROJECT NO
SCP 59-992-26

FISCAL
YEAR
2026

SHEET
NO
2

TOTAL	ITEM NUMBER	UNIT	DESCRIPTION	PROJECT NOTES
1	521B-000	LS	COATING EXISTING BRIDGE AT STA 23+31.14582 (APPROX. 6,700 SF)	100 - 108, 203
78.5	740B-000	SQFT	CONSTRUCTION SIGNS	
30	740E-000	EA	CONES (36" HIGH)	
2	740F-002	EA	BARRICADES, TYPE III	



SHELBY COUNTY
HIGHWAY DEPARTMENT

SHEET TITLE
SUMMARY OF
QUANTITIES

ROUTE
CR-43

PROJECT AND TRAFFIC CONTROL NOTES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-992-26	2026	3

NOTE NO	PROJECT NOTES	NOTE NO	PROJECT NOTES
100	REQUIRED BRIDGE PAINTING SHALL CONSIST OF ALL EXPOSED METAL. INCLUDING, BUT NOT LIMITED TO, STEEL PILING AT BENTS 3, 4, AND 7 AND STEEL GIRDERS AT SPAN 5.	300	THE CONTRACTOR SHALL SEAL ALL PLATES OR CONNECTIONS BY MINIMAL CAULKING WITH AN APPROVED SEALANT AS PER THE PAINT MANUFACTURER'S RECOMMENDATIONS. CAULKING SHALL ONLY BE APPLIED PRIOR TO THE TOP/FINAL COAT. THIS WORK SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF PAY ITEM 521B-000.
101	THE BRIDGE SHALL RECEIVE PAINT SYSTEM NO. 1E (3-PART) SELECTED FROM ALDOT QUALIFIED MATERIALS LIST III-1. EACH COAT'S COLOR SHALL CONTRAST WITH THE PREVIOUS COAT FOR EASE OF INSPECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WHICH COATING PRODUCT WILL BE UTILIZED PRIOR TO BEGINNING WORK.	301	PAY ITEM 521B-000, COATING EXISTING BRIDGE, SHALL INCLUDE THE COATING OF ALL BEARING ASSEMBLIES. CARE SHALL BE GIVEN TO PROTECT THE MACHINED SURFACES OF BEARING DEVICES DURING SURFACE PREPARATION AND COATING.
102	CLEANING/BLASTING OF THE EXISTING BRIDGE SHALL BE A SUBSIDIARY OBLIGATION OF PAY ITEM 521B-000 AND SHALL BE DONE IN ACCORDANCE WITH THE 2022 VERSION OF THE ALDOT STANDARD SPECIFICATIONS.	302	BRIDGE SURFACE PREPARATION PLAN AND APPLICABLE ADEM FORM 8700-12 WILL BE SUBMITTED IN ACCORDANCE WITH ARTICLE 521.06 OF THE 2022 VERSION OF THE ALDOT STANDARD SPECIFICATIONS.
103	THE EXISTING PAINT COATINGS ARE BELIEVED TO CONTAIN THE HEAVY METALS LEAD AND/OR CHROMIUM. THE CONTRACTOR SHALL TREAT ANY WASTE CREATED DURING THE CLEANING/BLASTING AS A HAZARDOUS WASTE. THIS WASTE SHALL BE HANDLED IN ACCORDANCE WITH ARTICLE 521.06 OF THE 2022 VERSION OF THE ALDOT STANDARD SPECIFICATIONS. ANY COST ASSOCIATED WITH THIS SHALL BE A SUBSIDIARY OBLIGATION OF PAY ITEM 521B-000.		
104	A SURFACE PREPARATION PLAN SHALL BE SUBMITTED IN ACCORDANCE WITH ARTICLE 521.07 OF THE 2022 VERSION OF THE ALDOT STANDARD SPECIFICATIONS.	NOTE NO	TRAFFIC CONTROL NOTES
105	THE CONTRACTOR SHALL NOTIFY SHELBY COUNTY AFTER CLEANING/BLASTING, SURFACE PREPARATION, AND EACH LAYER OF THE COATING SYSTEM IS APPLIED. SHELBY COUNTY SHALL BE ALLOWED TIME FOR INSPECTION OF EACH LAYER. ALL LAYERS SHALL BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.	700	DURING NON-WORKING HOURS, NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF THE ROADWAY. WHEN THIS IS NOT PRACTICAL, IT SHALL BE PLACED IN AN AREA APPROVED BY THE ENGINEER AND DELINEATED BY REFLECTORIZED CONES.
106	THE TOP COAT SHALL BE ALABAMA BRIDGE GREEN MATCHING FEDERAL STANDARD COLOR CHART NO. 24272.	701	ALL SIGNS SHALL BE POST MOUNTED EXCEPT FOR THE LANE SHIFT SIGN (W24-1). WHERE THIS IS NOT PRACTICAL, THE CONTRACTOR SHALL PLACE THE SIGN(S) ON TEMPORARY SUPPORTS AT A LOCATION APPROVED BY THE ENGINEER.
107	ANY OVERSPRAY SHALL BE CLEANED AND REMOVED AT THE DISCRETION OF THE ENGINEER.	702	THE CONTRACTOR SHALL PLACE ALL REQUIRED SIGNS PRIOR TO BEGINNING WORK.
108	THE BRIDGE REQUIRES APPROXIMATELY 6,700 SQUARE FEET OF CLEANING/BLASTING AND PAINTING.THE CONTRACTOR SHALL VERIFY ACTUAL QUANTITIES BEFORE SUBMITTING A BID.	703	THE CONTRACTOR SHALL REMOVE OR COVER ALL SIGNS THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME AT THE DISCRETION OF THE ENGINEER.
200	THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS PRIOR TO BEGINNING WORK AT THE BRIDGE SITE.	704	THE CONTRACTOR WILL BE ALLOWED TO CLOSE CR-43 NORTH BOUND FROM CR-280 TO US-280 on WEEK DAYS FROM 8:15 AM TO 3:00 PM AND ON SATURDAYS FROM 6:00 AM TO 4:00 PM. NO LANE CLOSURES WILL BE ALLOWED ON SUNDAYS.
201	ALL DEBRIS CREATED THROUGHOUT CONSTRUCTION OF THE PROJECT SHALL BE REMOVED EACH WORKDAY.	705	WHEN CR-43 NORTHBOUND IS CLOSED, THE CONTRACTOR SHALL PLACE THE REQUIRED BARRICADES AT THE INTERSECTION OF CR-43 AND CR-280.
203	BRIDGES AND TREES GREATHER THAN 3 INCHES IN DIAMETER WITHIN THE PROJECT AREA MAY PROVIDE A HABITAT FOR THREATENED BAT SPECIES. ACTIVITIES THAT MAY DISTURB THIS HABITAT MUST BE PERFORMED BETWEEN OCTOBER 15 AND MARCH 31. IF SUCH ACTIVITIES CANNOT BE PERFORMED IN SAID TIME FRAME. THE CONTRACTORMUST PROVIDE A CURRENT SPECIES SURVEY AND ACCEPTABLE WORK PLAN APPROVED BY SHELBY COUNTY. ANY COSTS ASSOCIATED WITH THE SURVEY, PLAN DEVELOPMENT, OR ALTERATIONS TO WORK SHALL BE A SUBSIDIARY OBLIGATION OF PAY ITEM 521B-000. PLEASE CONTACT THE SHELBY COUNTY HIGHWAY DEPARTMENT FOR MORE INFORMATION.	706	THE TRAFFIC CONTROL PLAN SHOWS THE PLACEMENT OF CONES WHEN WORK IS BEING CONDUCTED FROM THE EAST SIDE OF THE BRIDGE.
204	THERE SHALL BE NO DEBRIS OR FOREIGN MATERIAL DROPPED INTO YELLOWLEAF CREEK.	707	WHEN WORK IS BEING CONDUCTED FROM THE WEST SIDE OF THE BRIDGE, THE CONTRACTOR SHALL USE THE SAME DETAIL MIRRORED ABOUT THE CENTER LINE OF THE ROAD. IN THIS CASE, THE CONTRACTOR SHALL ALSO PLACE THE LANE SHIFT SIGN (W24-1) ON TEMPORARY SUPPORTS AT A LOCATION APPROVED BY THE ENGINEER.
205	THE CONTRACTOR SHALL PROTECT ALL PROPERTY, PUBLIC AND PRIVATE, FROM COATING DAMAGE.	708	AT THE END OF EACH WORK DAY, ALL CONES AND BARRICADES SHALL BE REMOVED FROM THE ROADWAY AND CR-43 NORTHBOUND OPENED TO TRAFFIC.
		709	AT THE OPTION OF THE CONTRACTOR, SHELBY COUNTY MAY PROVIDE PORTABLE CHANGEABLE MESSAGE SIGNS TO HELP DETOUR TRAFFIC.
		710	THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE CLOSING OF ANY LANES DURING CONSTRUCTION.

				 SHELBY COUNTY HIGHWAY DEPARTMENT		SHEET TITLE	ROUTE
						PROJECT AND TRAFFIC CONTROL NOTES	CR-43

TRAFFIC CONTROL PLAN AND SUMMARY

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-992-26	2026	4

REQUIRED CONSTRUCTION SIGNS - 740B-000			
SIGN	SIGN DESIGNATION	QUANTITY	DIMENSIONS (IN.)
END ROAD WORK	G20-2	1	36 X 18
CR-43	M1-6	3	24 X 24
SOUTH	M3-3	3	24 X 12
ROAD CLOSED	R11-2	2	48 X 30
ROAD WORK AHEAD	W20-1	3	36 X 36
LANE SHIFT	W24-1	1	36 X 36
TOTAL CONSTRUCTION SIGN AREA (SF):			78.50

REQUIRED TRAFFIC CONTROL DEVICES		
PAY ITEM	TRAFFIC CONTROL DEVICE	QUANTITY
740E-000	CONES (36" HIGH)	APPROX. 30
740F-002	BARRICADES, TYPE III	2

MAP LEGEND



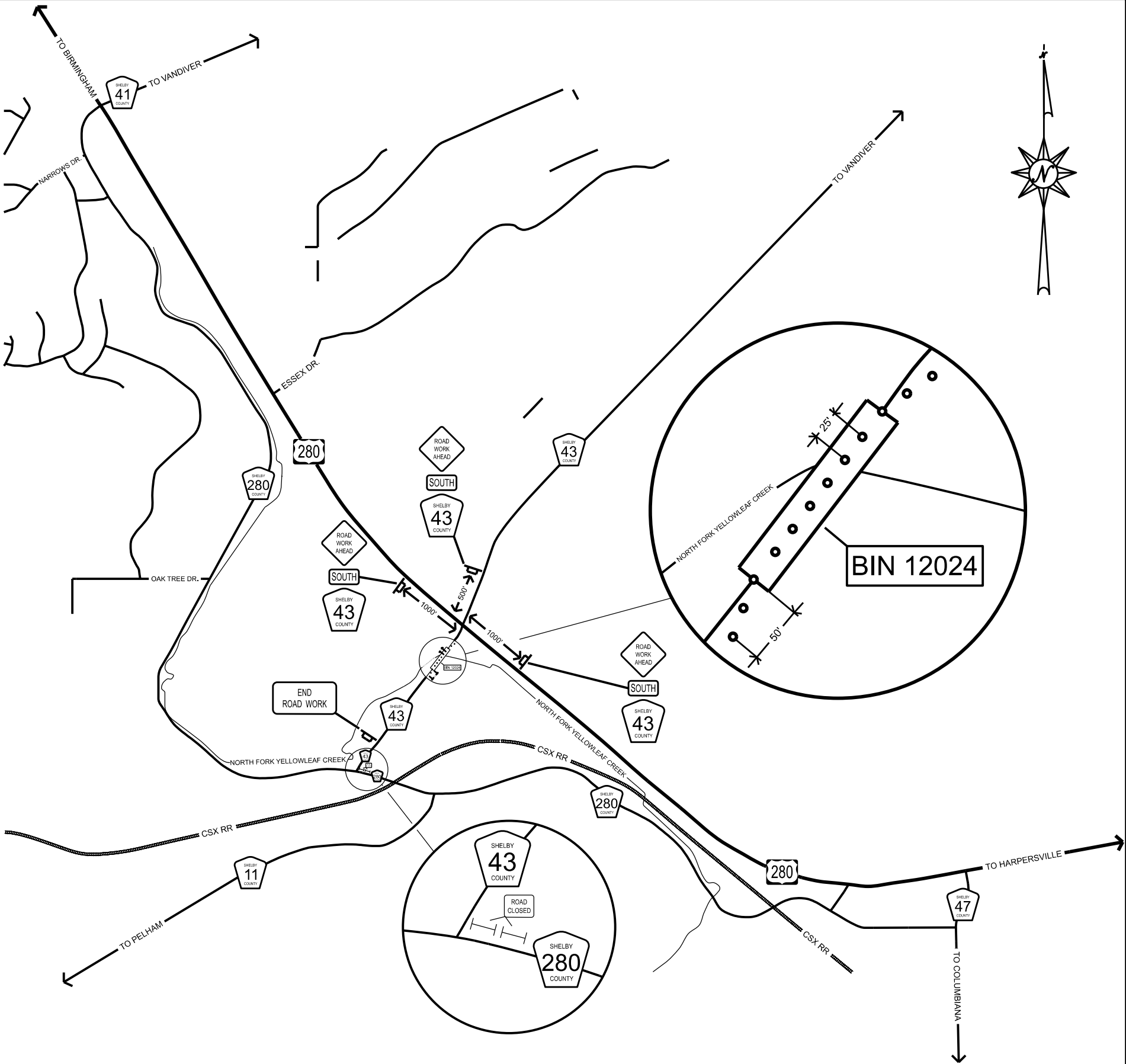
CONSTRUCTION SIGNS



CONES (25' O.C.)



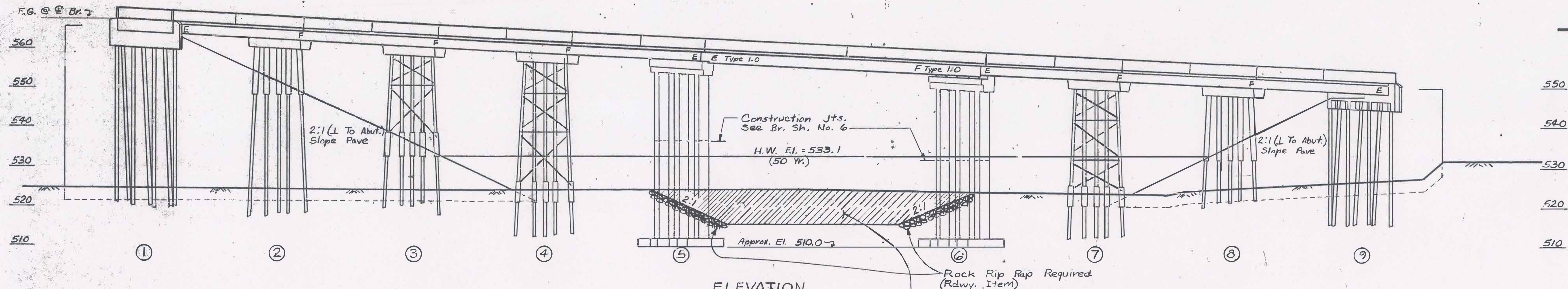
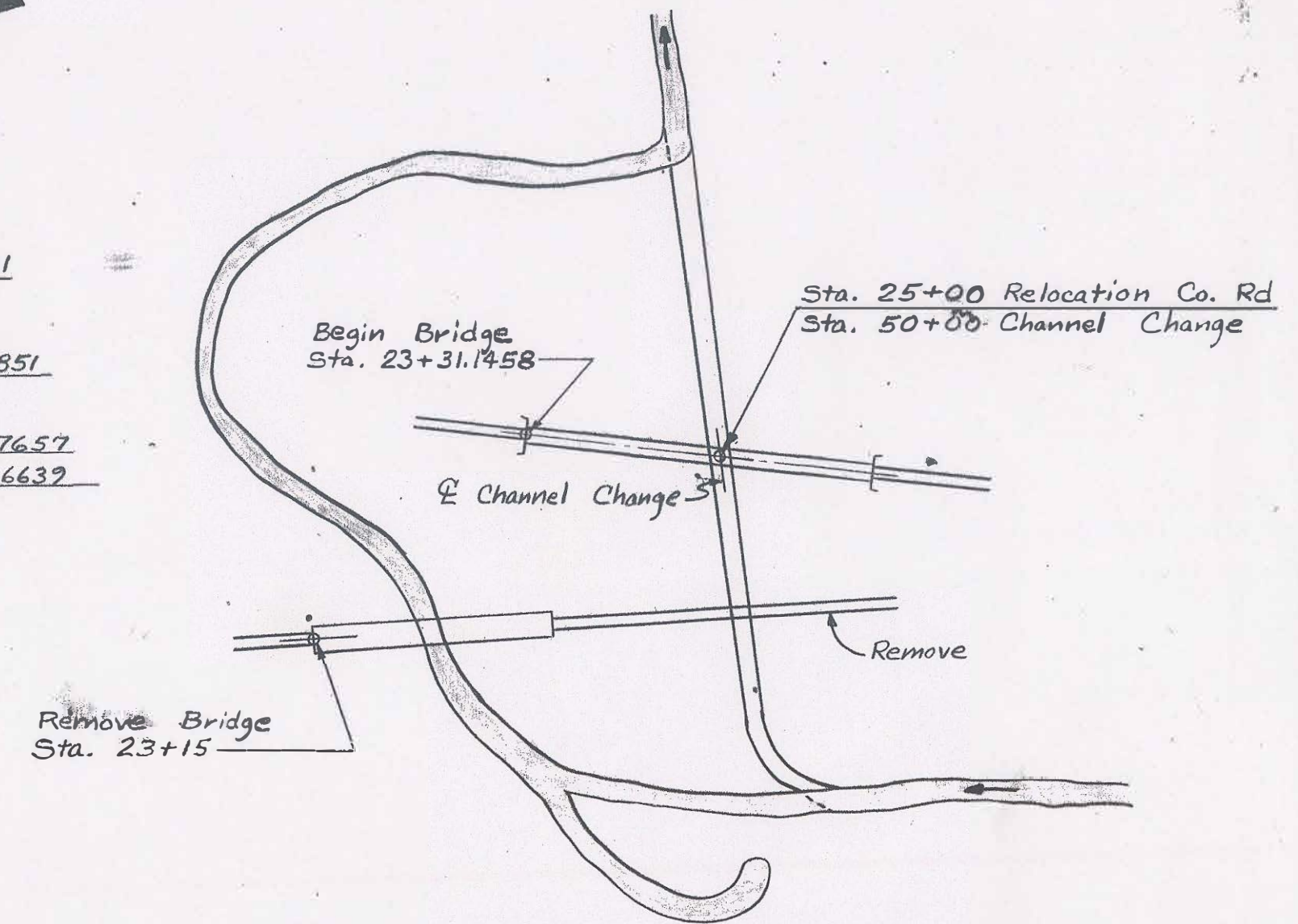
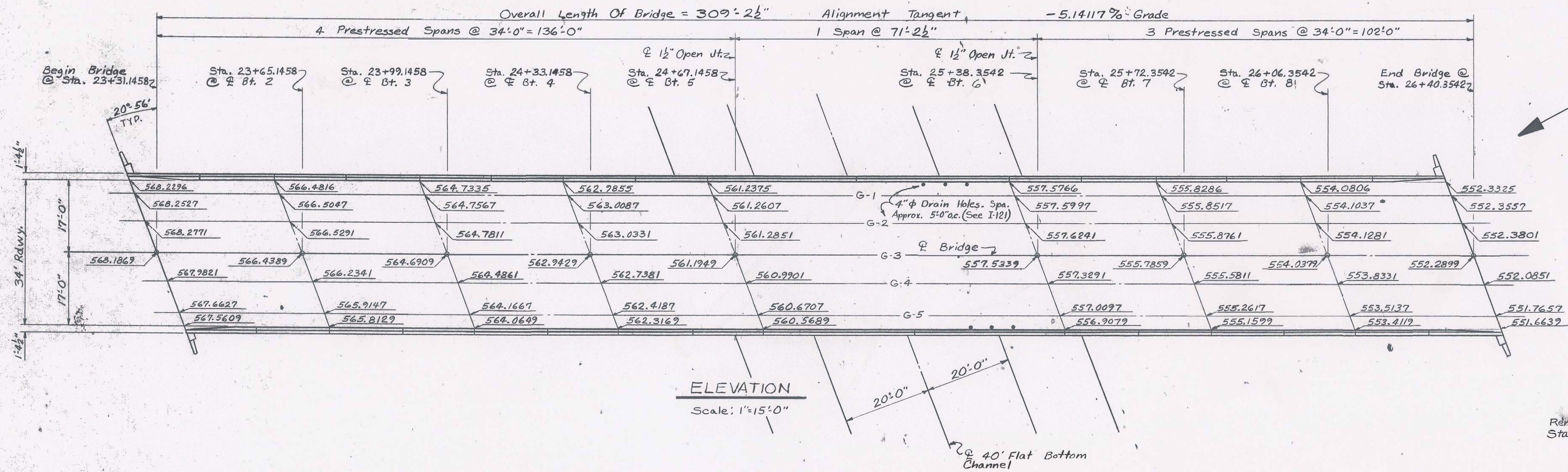
TYPE III BARRICADES



SHELBY COUNTY
HIGHWAY DEPARTMENT

NOT TO SCALE

SHEET TITLE	ROUTE
TRAFFIC CONTROL PLAN AND SUMMARY	CR-43



GENERAL NOTES

See Std. Dwg. No. GNI-1 (2 Sheets)
Roadway: 34'-0" w/ Barrier Rail

- 1 HS20-44
- 2 Green Bridge Paint
- 3 Abuts. 20 Tons
- 4 Bts. 2, 3, 4, 7 & 35 Tons
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ESTIMATED QUANTITIES

1 Lump Sum Removal Of Old Bridge Station 23+15
316 Cu. Yds. Unclassified Bridge Excavation
57,490 Lbs. Steel Reinforcement
2 Each Steel Test Piles (HP10x42)
2 Each Loading Tests (HP10x42)
1755 Lin. Ft. Steel Piling (HP10x42)
8810 Lbs. Structural Steel
1 Lump Sum Structural Steel Superstructure, 71'-1" Simple Span, Approx. 79,530 Lbs.
1 Set Self-Lubricating Bronze Bearing Plates
232 Cu. Yds. Bridge Substructure Concrete Class "A"
1 Lump Sum Bridge Concrete Superstructure, Station 23+31.1458 Approx. 324 Cu. Yds.
1170 Lin. Ft. Prestensioned Prestressed Concrete Girders, AASHTO Type "I" (34' Spans)
153 Cu. Yds. Slope Paving
73 Lin. Ft. Furnishing and Installation of Bridge End Joint Seal System 1' Total Movement.
*One Set Consist of 10 Plates

SUBSTRUCTURE CONCRETE SUMMARY

196 Cu. Yds. Bridge Substructure Concrete (Less Footings)
36 Cu. Yds. Footings Only
232 Cu. Yds. Total

HYDRAULIC DATA

D.A. ----- 15.2 Sq. Miles
Opening Provided ----- 1967 Sq. Miles
Q50 ----- 7500 cfs (H.W. 533.1)
Q100 ----- 8700 cfs (H.W. 534.4)
Vm ----- 3.81 fps

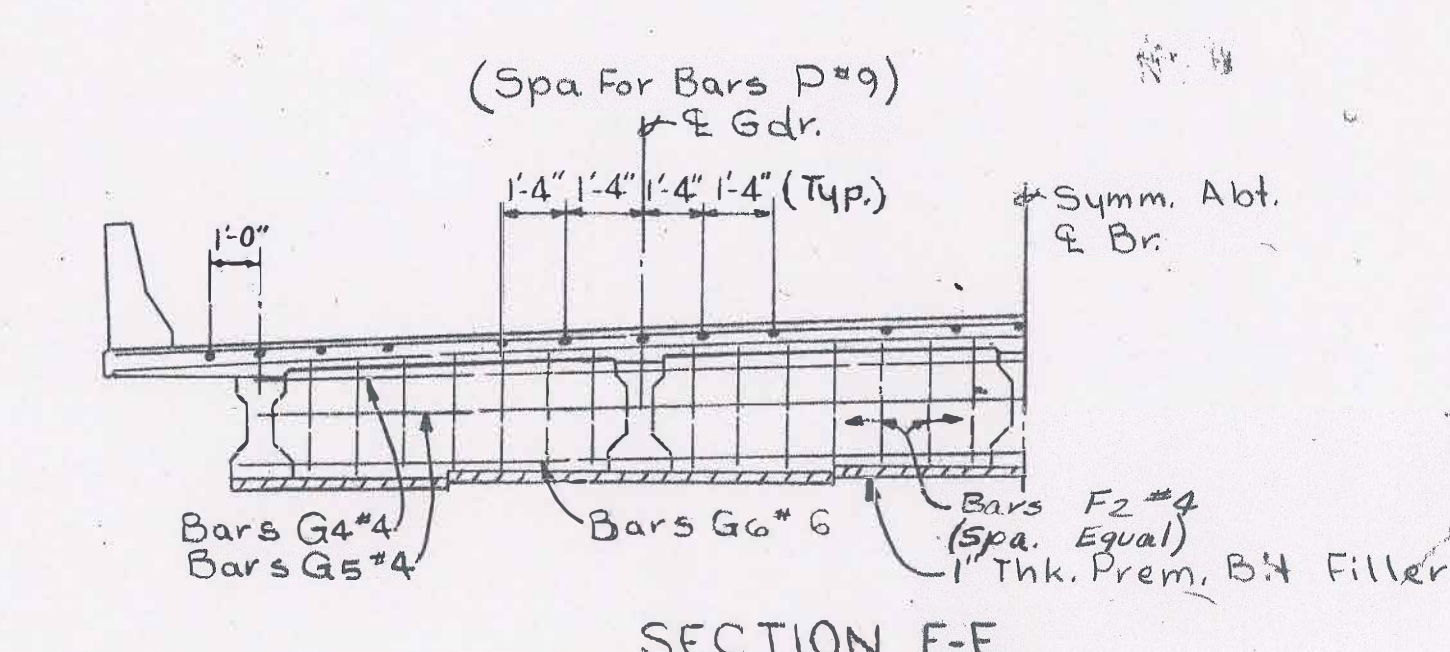
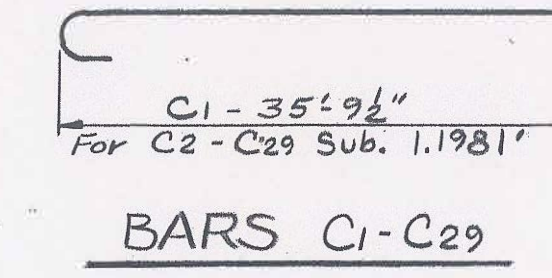
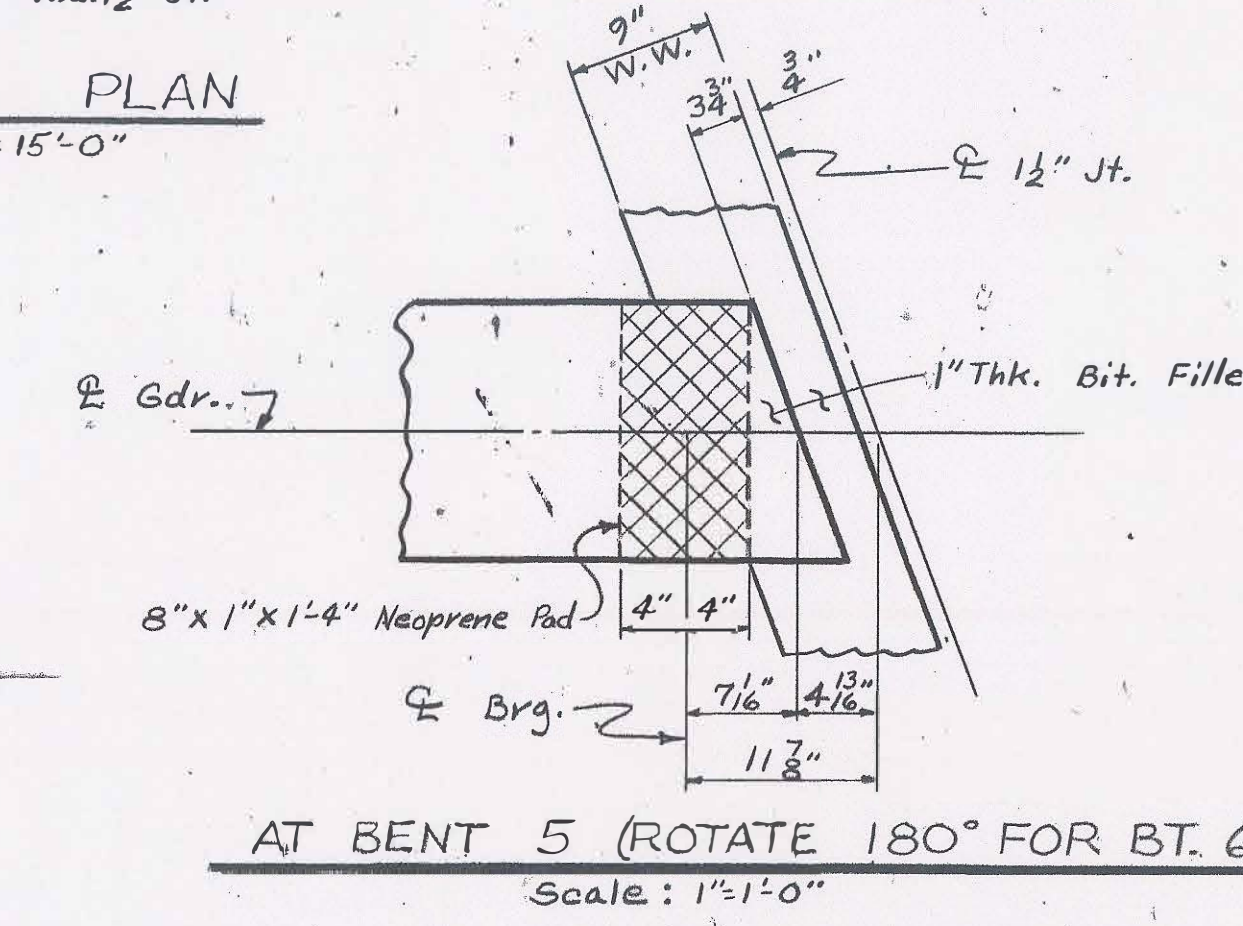
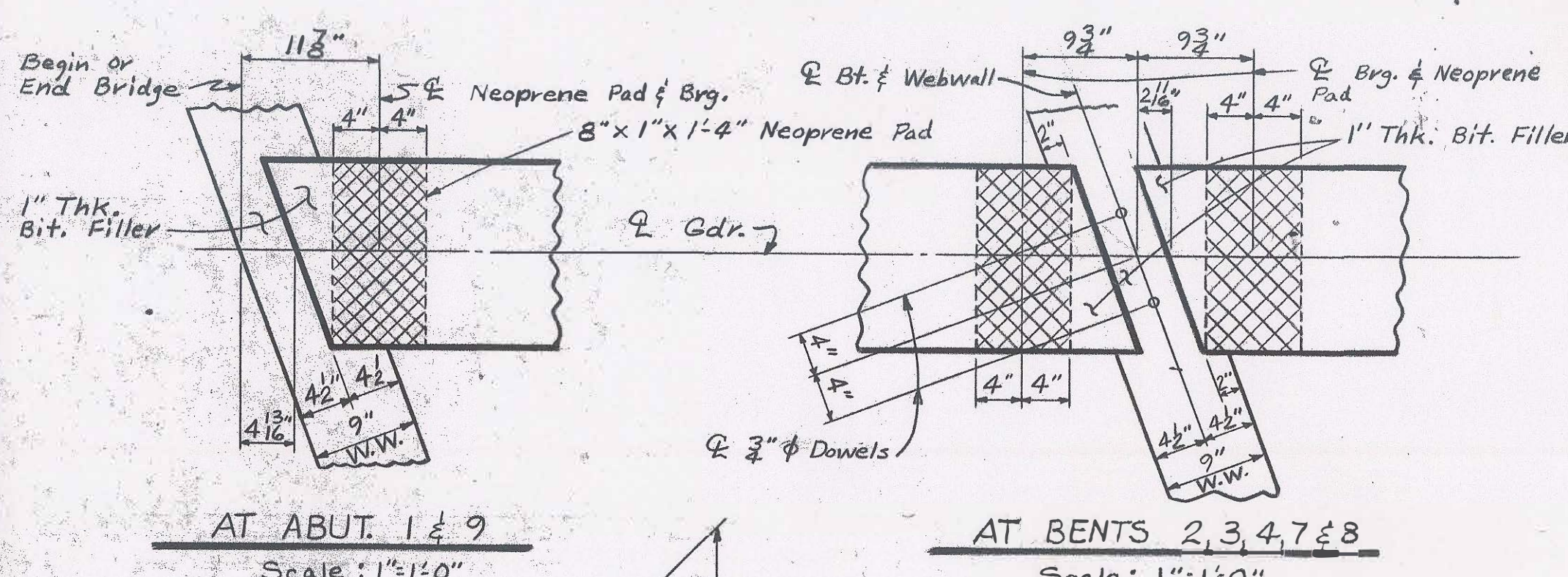
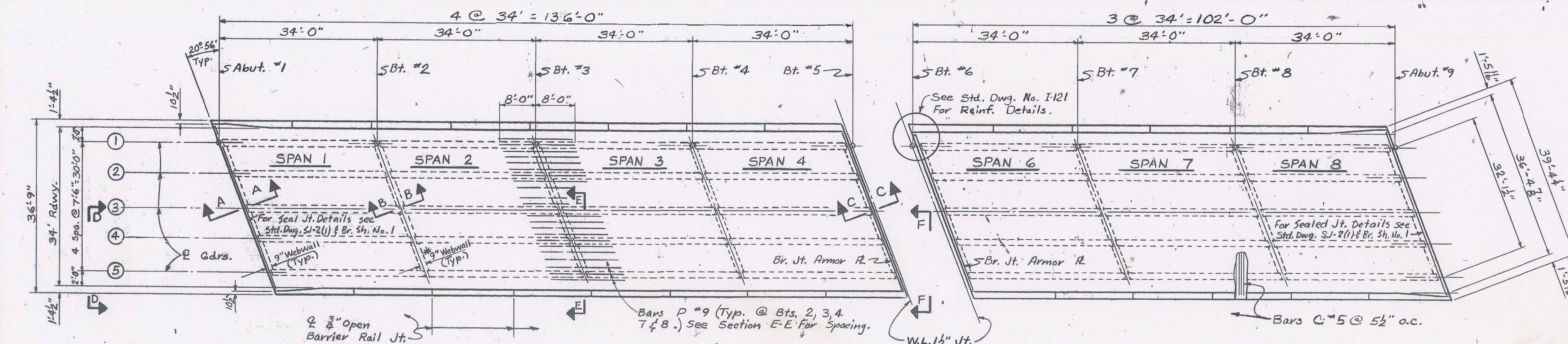
REQUIRED

1-70' Composite Steel Beam Span ----- Br. Sht. No. 4
7-34' Prestressed Conc. Beam Spans With
AASHTO Precast Prest. Conc. Gdgs. Type "I" ----- Br. Shts. No. 1, 2 & 3
2-6' Steel Pile & R.C. Abutments ----- Br. Sh. No. 7
5-Steel Pile Intermediate Bents (2, 3, 4, 7 & 8) ----- Br. Sh. No. 5
2-Reinforced Concrete Bts. (6 & 6) (Spread Flgs) ----- Br. Sh. No. 6
Bearing Assemblies ----- Std. Dwg. No. I-100 & Br. Sh. No. 4
Foundation Borings ----- Br. Sh. No. 8
Standard Details ----- Std. Dwg. No. I-121 (4 Shts)
General Notes ----- Std. Dwg. No. GNI-1 (2 Shts)
Slope Paving ----- Std. Dwg. No. 4-54
Sealed Joint Details ----- Std. Dwg. No. SJ-2 (1/4 Shts)

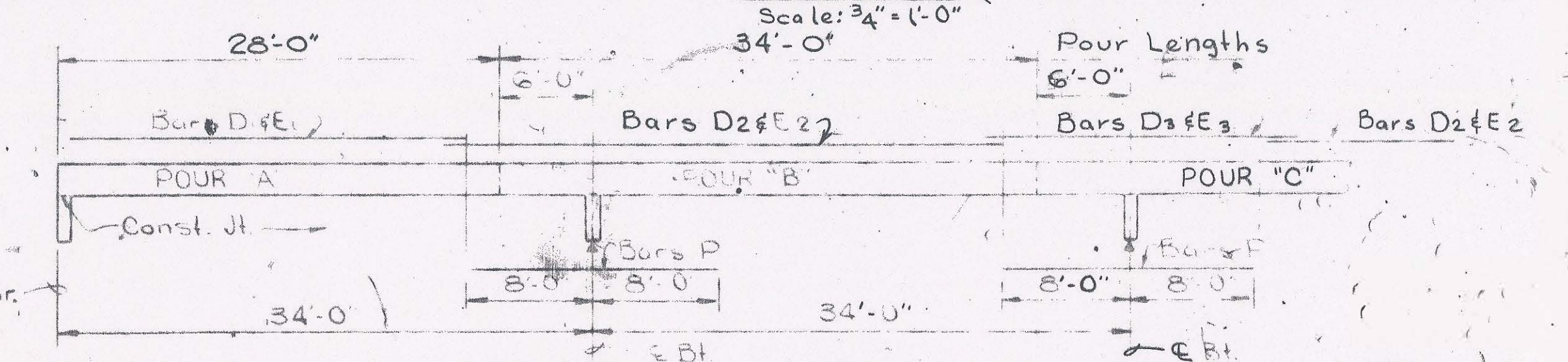
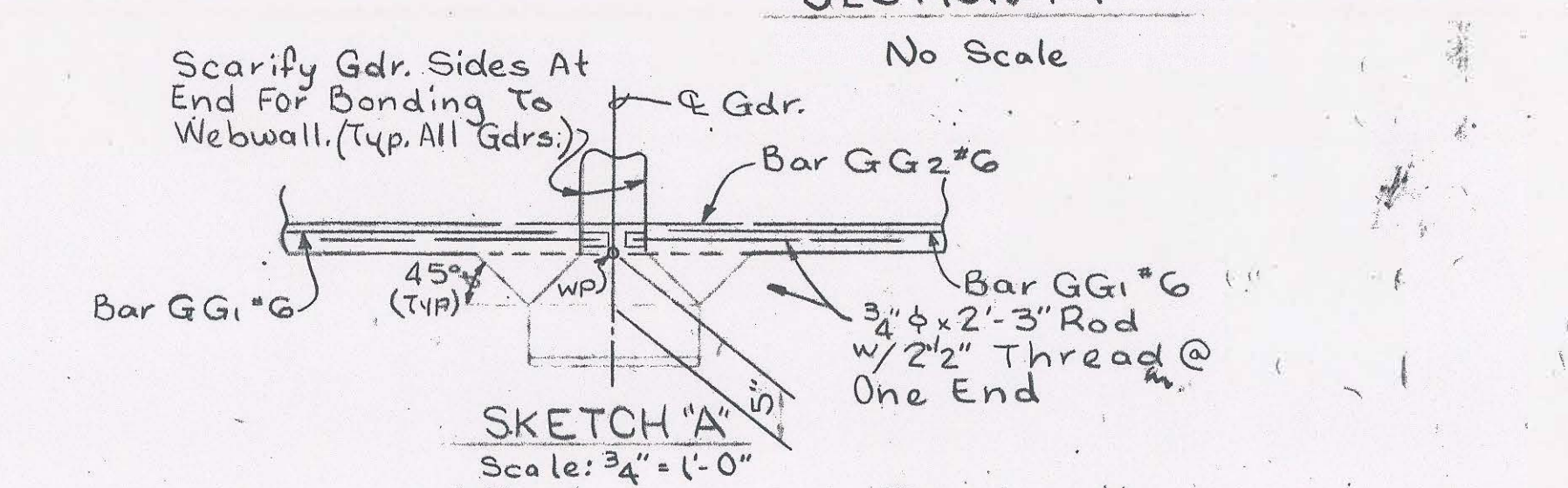
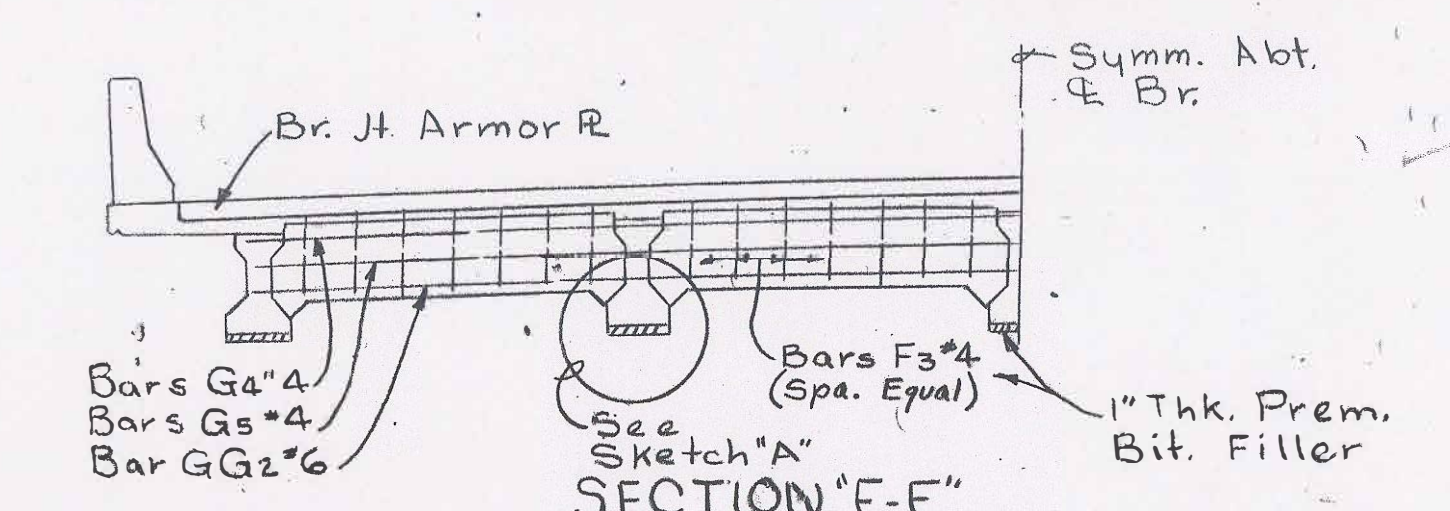
Sealed Joint Note

The Contractor Shall Seal The Joints At The Beginning & End Of Bridge
As Described Below And Detailed On Std. Dwg. No. SJ-2 (1/4) See Std. No. SJ-2(1)
For Required Joint Openings:
Alt. "A" Abut. 1 & 2 Use "3/4" Compression Seal Providing For Total
Movement Of At Least 1"
Alt. "B" Abut. 1 & 2 Use "Diaphragm Type Preformed Elastomeric Seal"
Providing For Total Movement Of At Least 1"

BRIDGE SHEET NO. 1 OF 8.		STATE OF ALABAMA HIGHWAY DEPARTMENT	
REVISIONS 1. Added Seal Joint pay item. 10/6/76 WRC 2. Channel Change Note. B.C.L. 11-2-76 AAC		PROJECT NO. RF-214(25) BRIDGE OVER YELLOW LEAF CREEK ON COUNTY ROAD #43 @ STA. 23+31.1458 RELOCATED U.S. 280 SHELBY COUNTY	
RECOMMEND APPROVAL SECTION SUPERVISOR <i>W. Fred Conway</i>		GENERAL PLAN & ELEVATION	
APPROVED: <i>Donald R. Lucas</i> CHIEF BRIDGE DESIGN ENGINEER <i>Charles H. Cook</i> BRIDGE ENGINEER		SCALE: As Shown	DESIGNED: DRAWN: A.R. CRUMLEY TRACED: CHECKED: E.M.B.
QUANTITIES Comp. ARC Chk. G.N.B.		DATE: July 75	



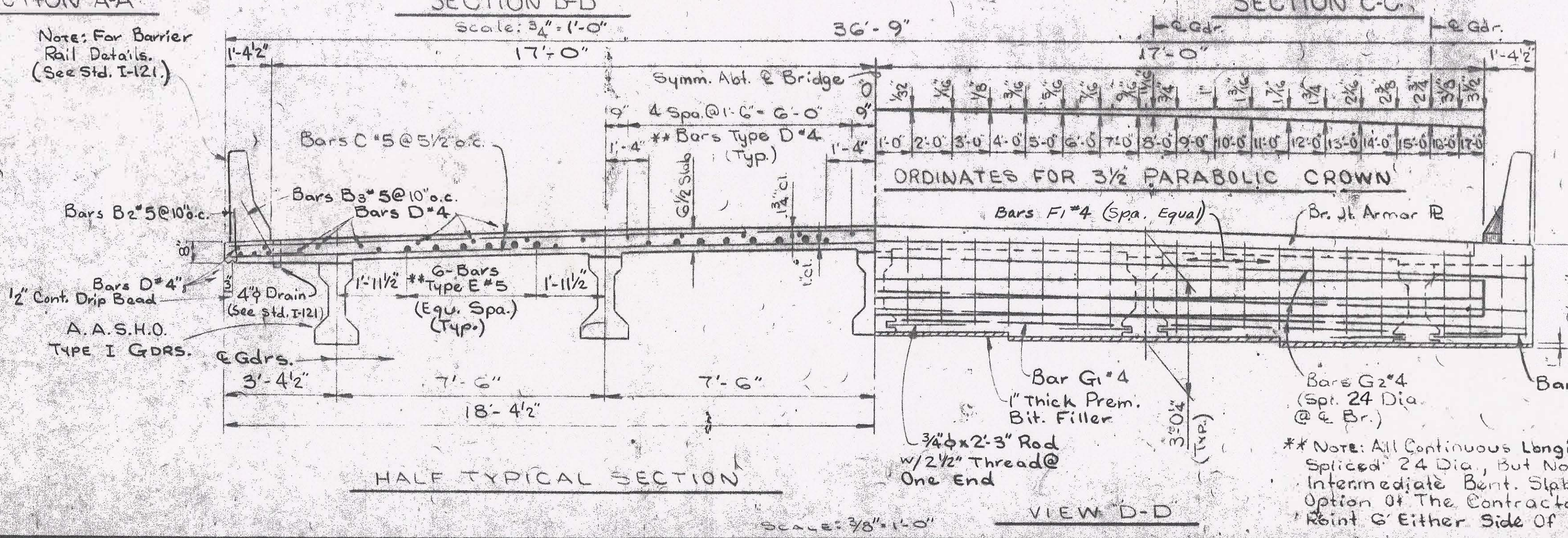
NOTE: For Slab & Curb Reinf. Not Shown In See "E-E" & "F-F" See Typical Section.



NOTE: If Contractor Does Not Desire Pouring Schedule As Shown, He Shall Submit One To Bridge Engineer For Approval. Slab Construction Joints Shall Be At A Point & Either Side Of An Intermediate Bent.

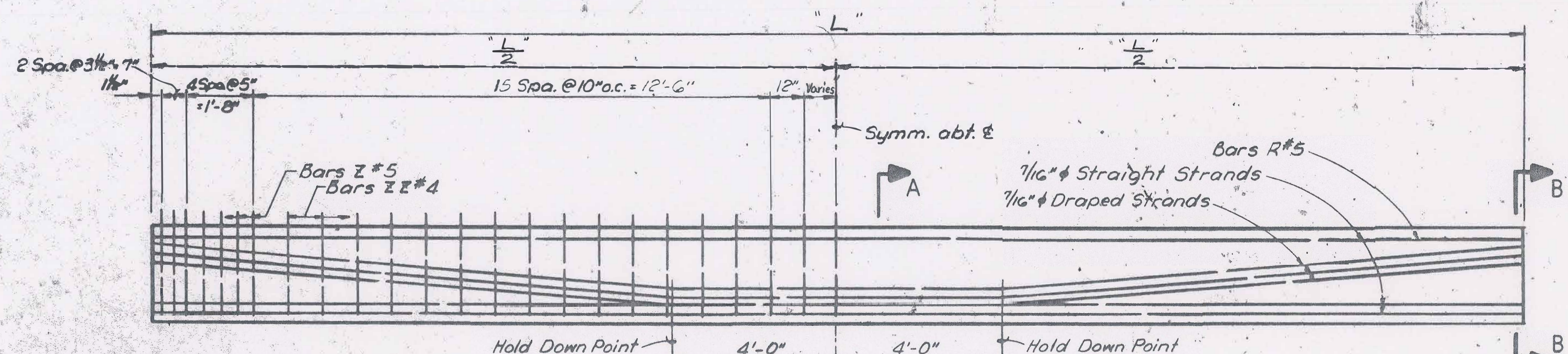
ESTIMATED QUANTITIES	
253	CU. YDS. BRIDGE SUPER. CONCRETE, CLASS "A"
71,350	LBS. STEEL REINFORCEMENT
1660	LBS. STRUCTURAL STEEL

NOTE: For Barrier Rail Details. (See Std. I-121.)



NOTE: All Continuous Longitudinal Slab Bars (D&E) Are To Be Spliced 24 Dia. But No Splice Shall Be Within 8' OF AN Intermediate Bent. Slab Const. Jts. May Be Located At The Option Of The Contractor Except That They Shall Be At A Point & Either Side Of An Int. Bent.

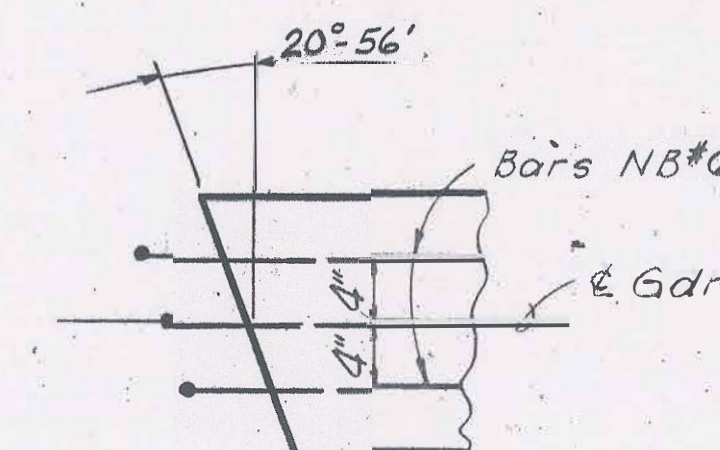
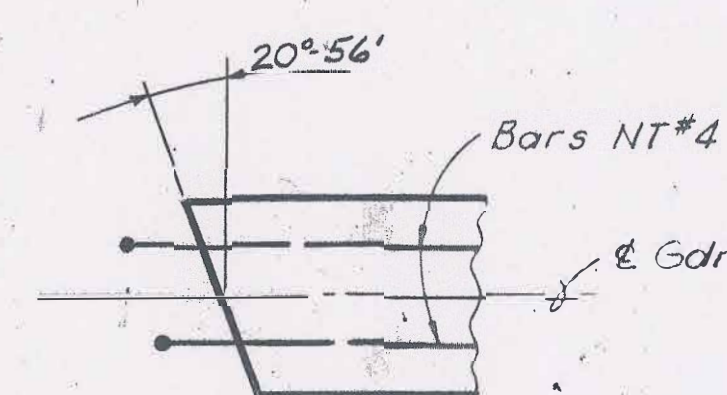
BRIDGE SHEET NO. 2 OF 8		STATE OF ALABAMA HIGHWAY DEPARTMENT	
REVISIONS 1. Added Seal Jt. Details. 10/6/76		PROJECT NO. RF-214(25) BRIDGE OVER YELLOW LEAF CREEK ON COUNTY ROAD #43 @ STA. 23+31.1458 RELOCATED U.S. 280 SHELBY COUNTY	
RECOMMEND APPROVAL SECTION SUPERVISOR W. Fred Conway		FRAMING PLAN (SPANS 1,2,3,4,6,7&8)	
APPROVED: Donald P. Reese CHIEF BRIDGE DESIGN ENGINEER	SCALE: AS SHOWN	DESIGNED: RSC-3437 BR DRAWN: A.R. CRUMLEY TRACED: CHECKED: E.H.D.	QUANTITIES Comp. ARC CK. G.N.B.
DATE Sept. 75		DATE Sept. 75	



DIMENSION "L"	
SPAN NO.	"L" LENGTH
SPANS 1 & 8	33'-4 1/2"
SPANS 2, 3, & 7	33'-6 5/8"
SPANS 4 & 6	33'-4 1/2"

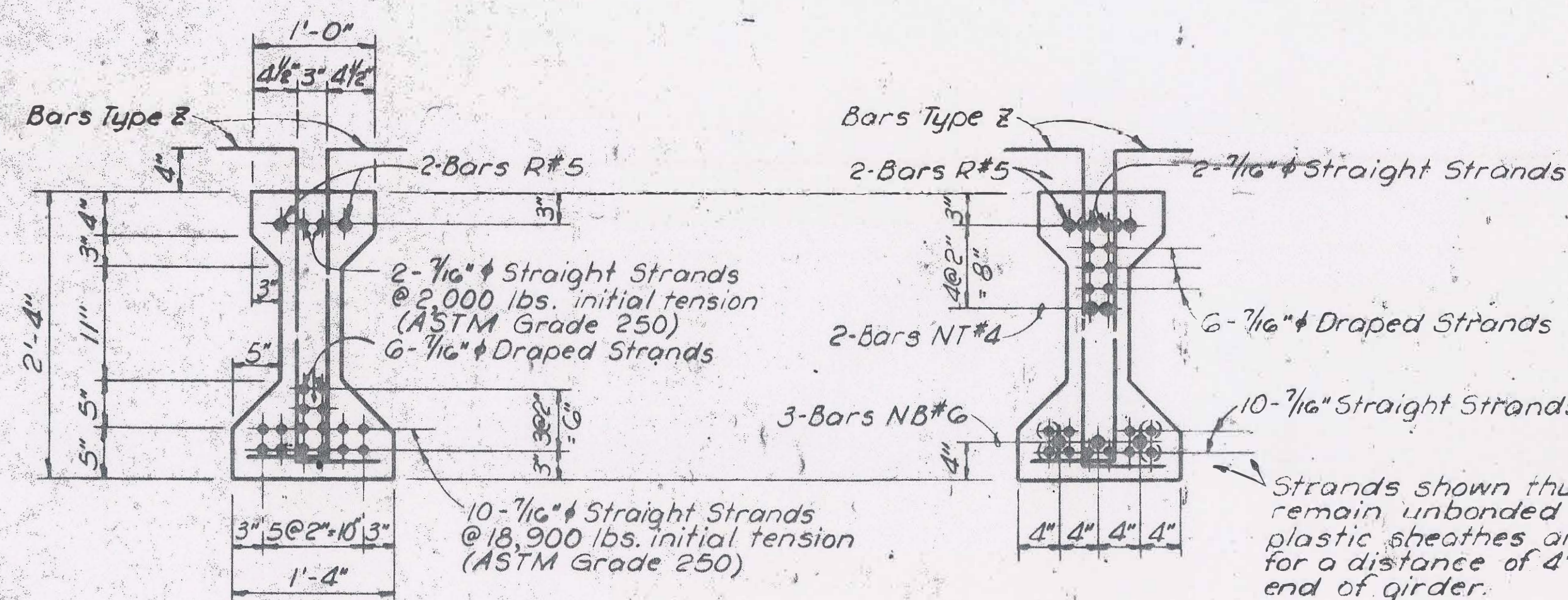
TYPICAL GIRDER ELEVATION

Scale: 1/2" = 1'-0"



PLAN SECTIONS SHOWING BARS TYPE "N"

Scale: 1" = 1'-0"



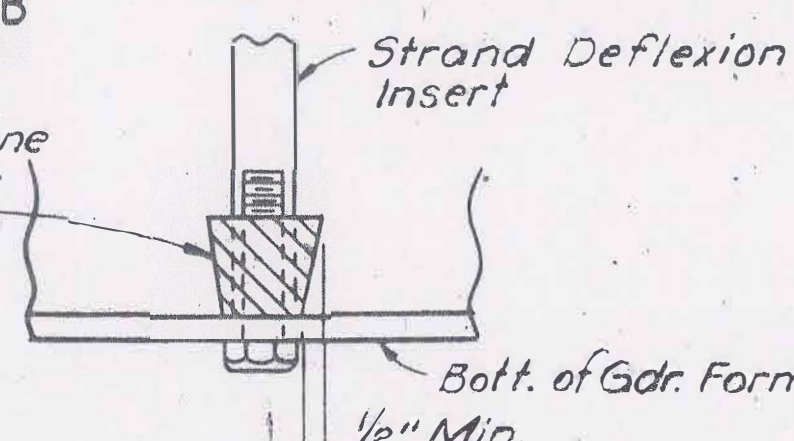
SECTION A-A

Scale: 1" = 1'-0"

SECTION B-B

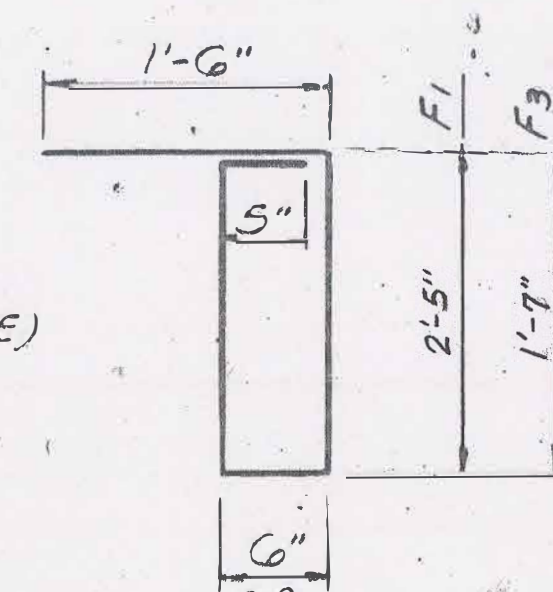
HOLES @ HOLD-DOWN POINTS

Special Polystyrene Plug for forming wedge shaped holes (See Std. No. GNI-1, Note No. 52-E)

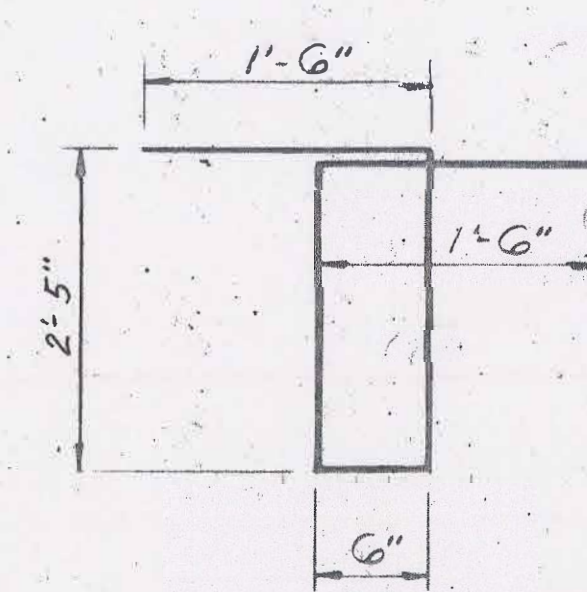


DETAIL OF BARS @ END OF GIRDER

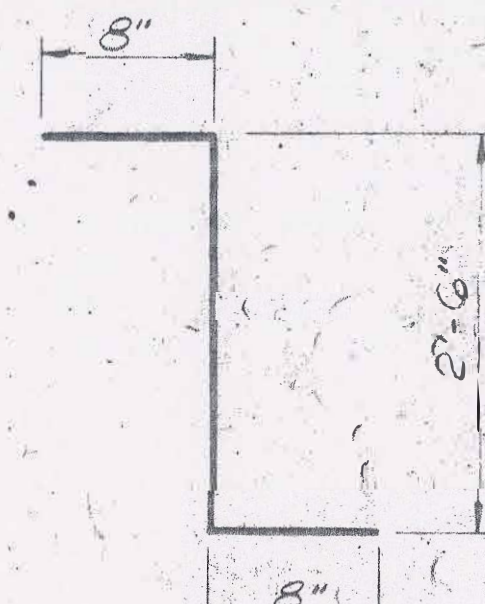
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BARS F1, F3



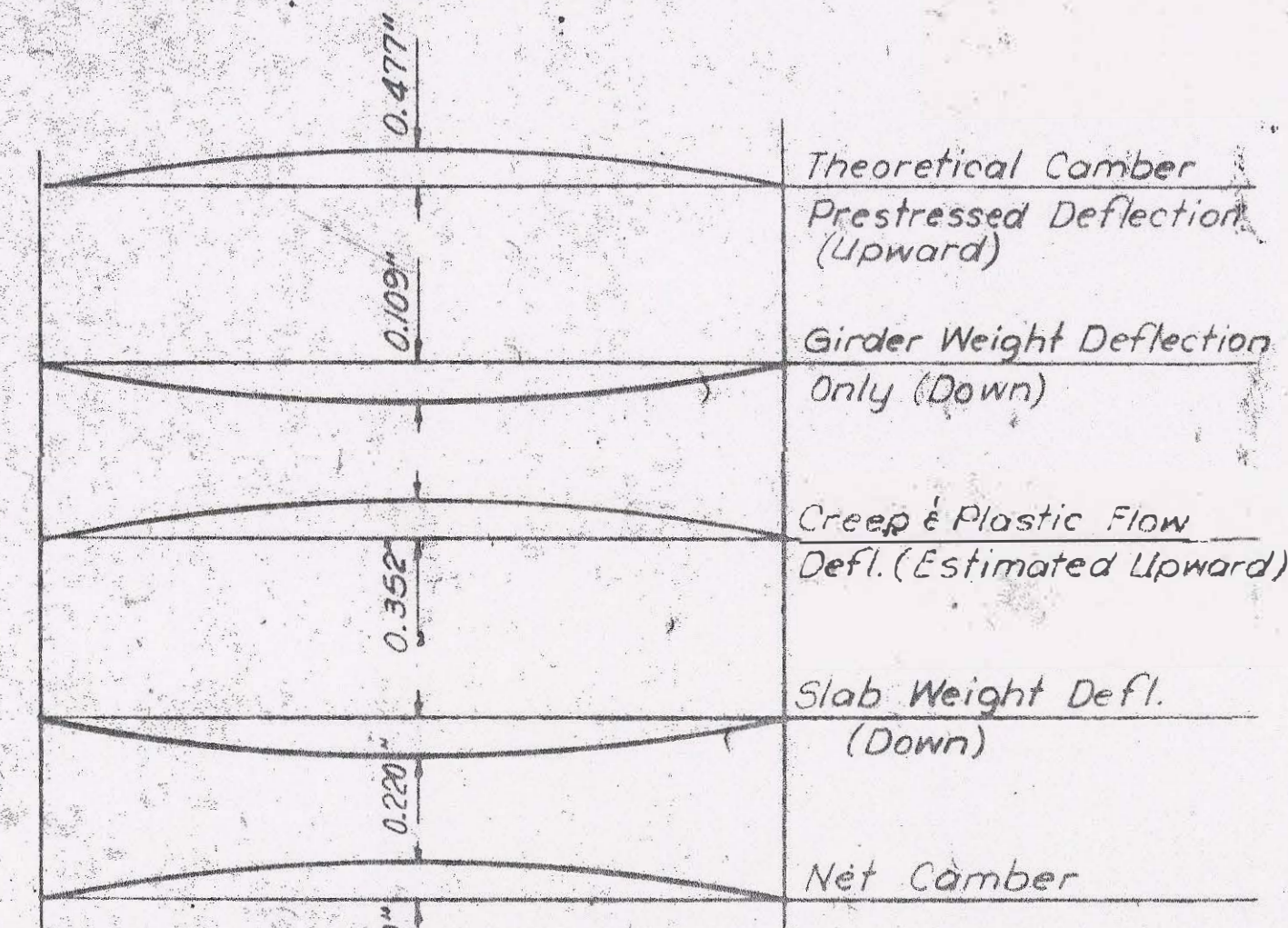
BAR F2



BAR Z & ZZ

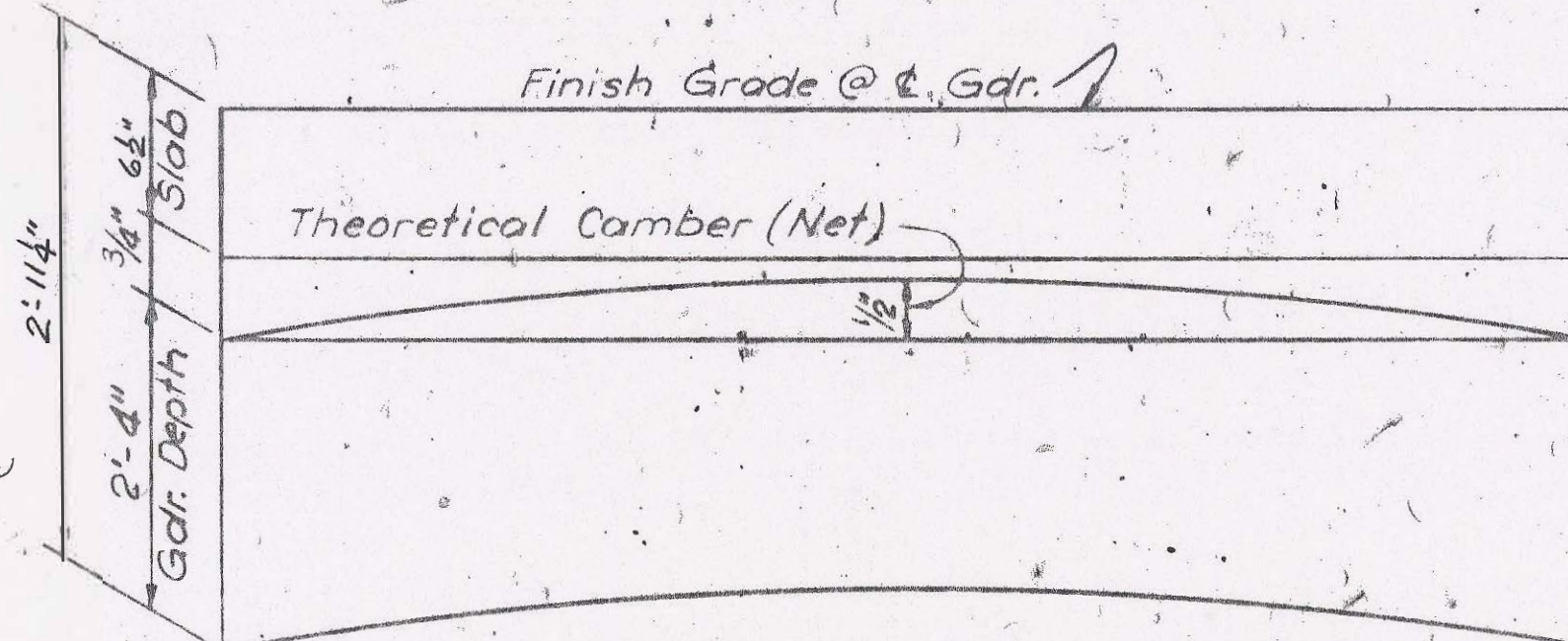
Note: Girders shall be Type I AASHTO Standard Prestressed Concrete Beams.

*The Contractor shall check grades on beams prior to pouring slab and make any adjustments needed in camber.



THEORETICAL CAMBER

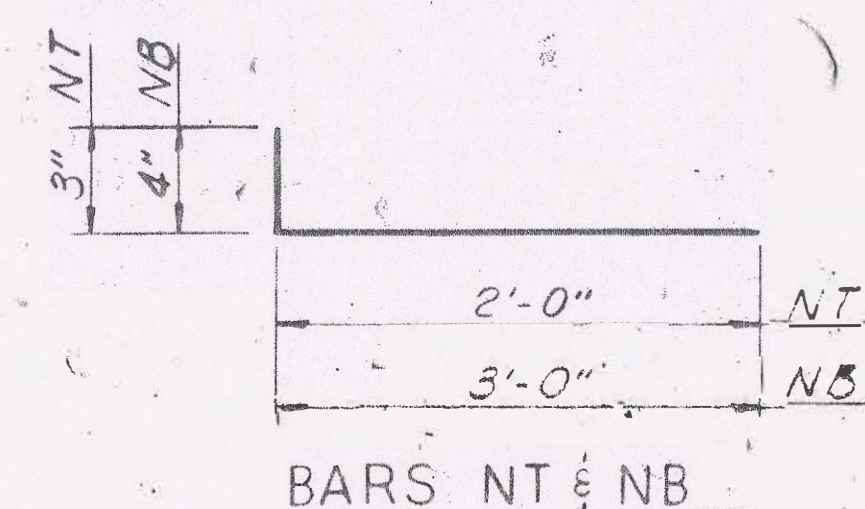
No Scale



SKETCH SHOWING THEORETICAL FINAL POSITION OF GIRDER WITH SLAB IN PLACE

No Scale

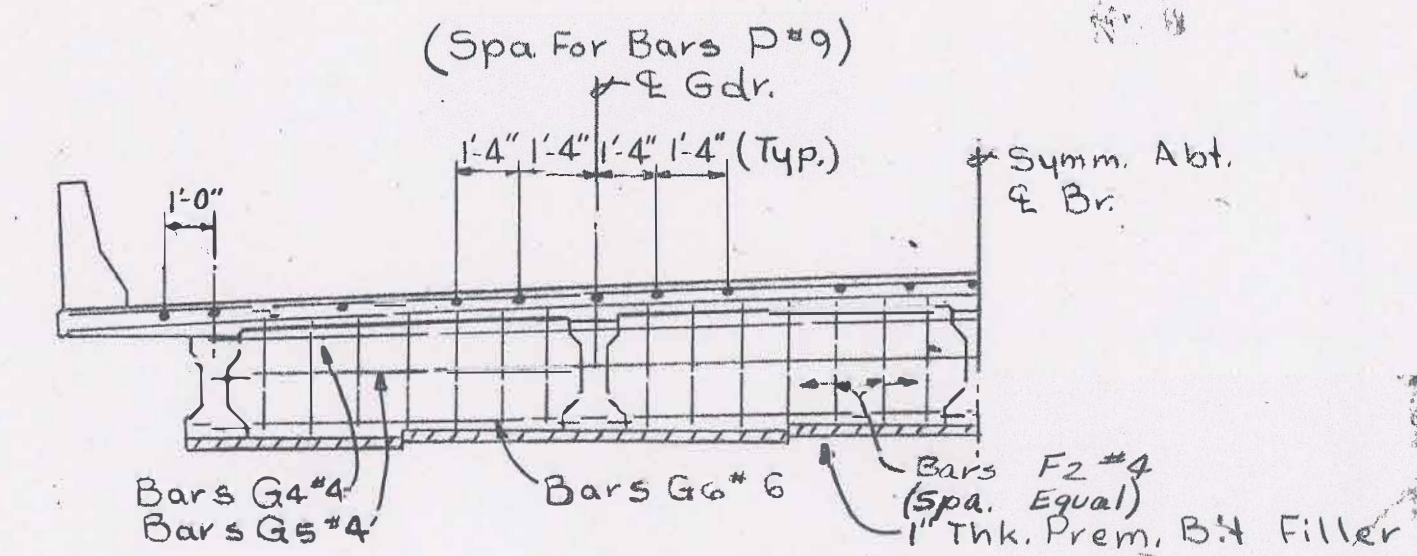
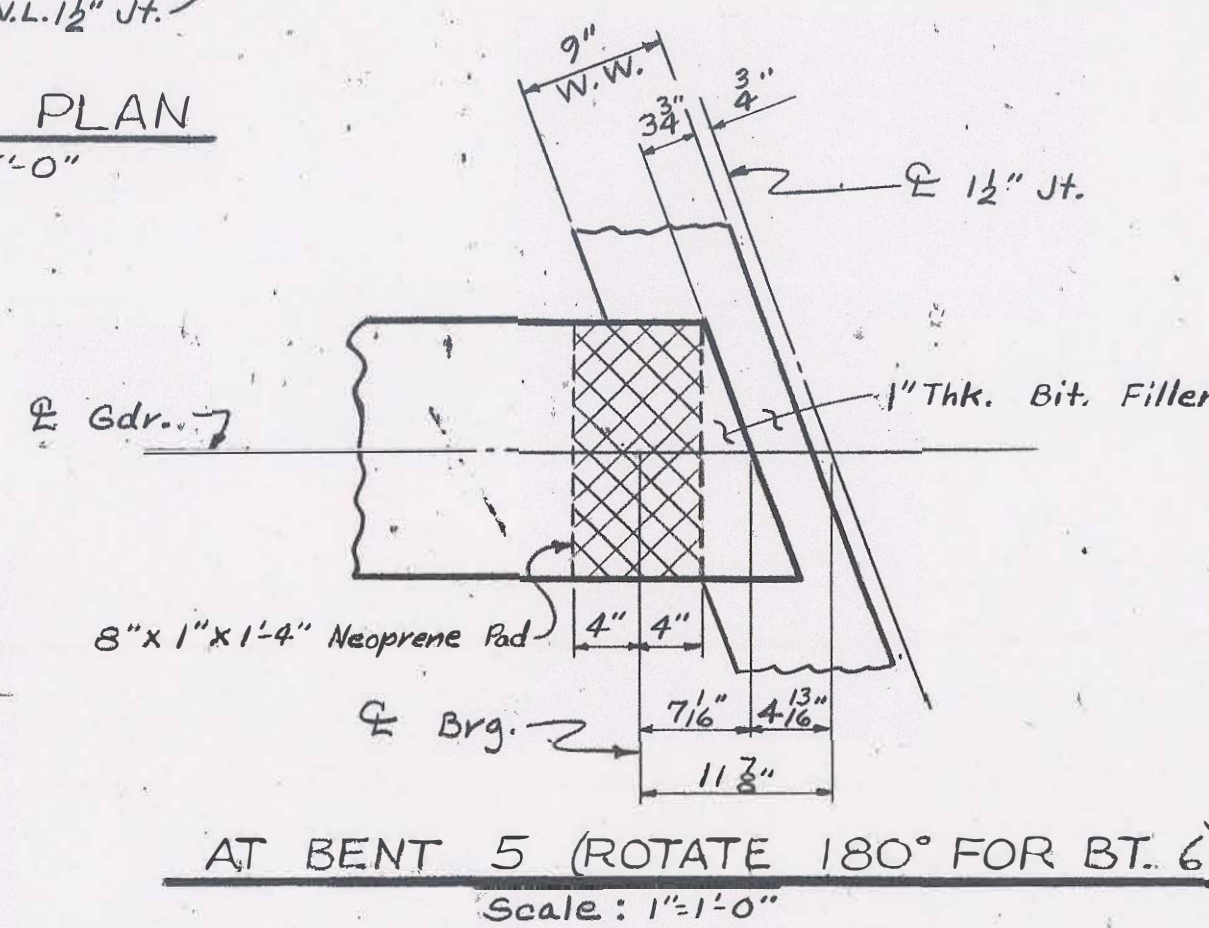
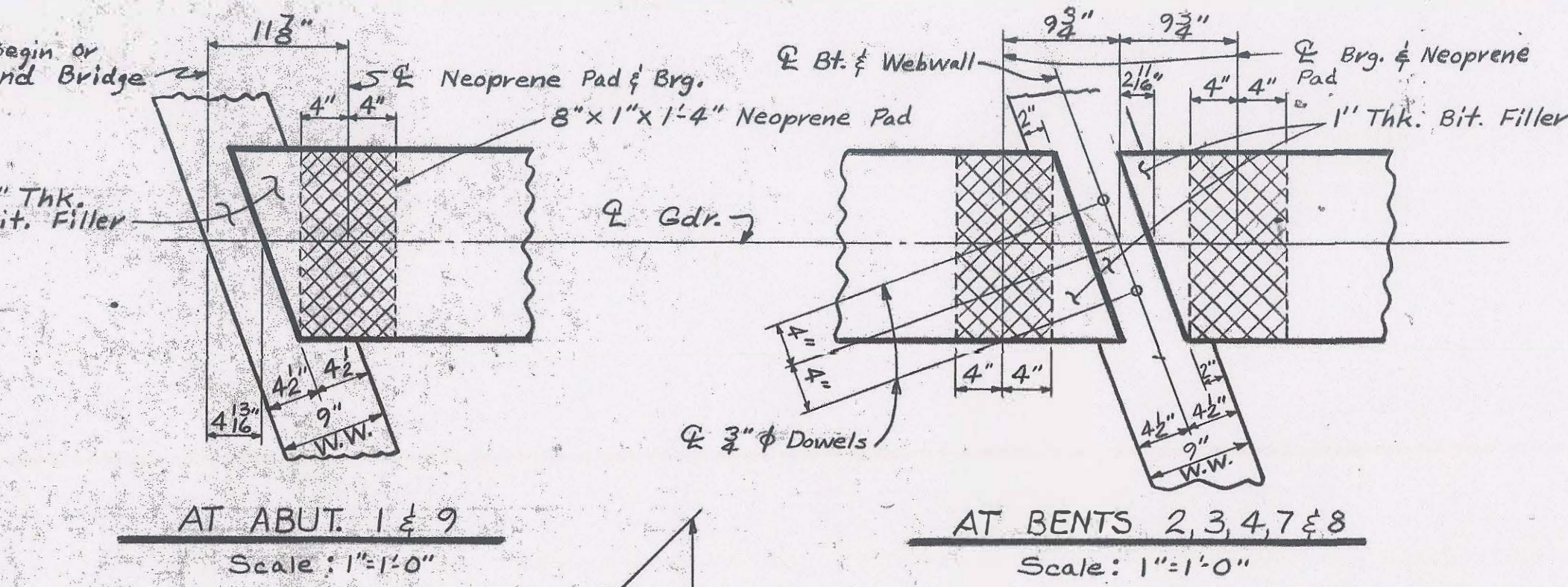
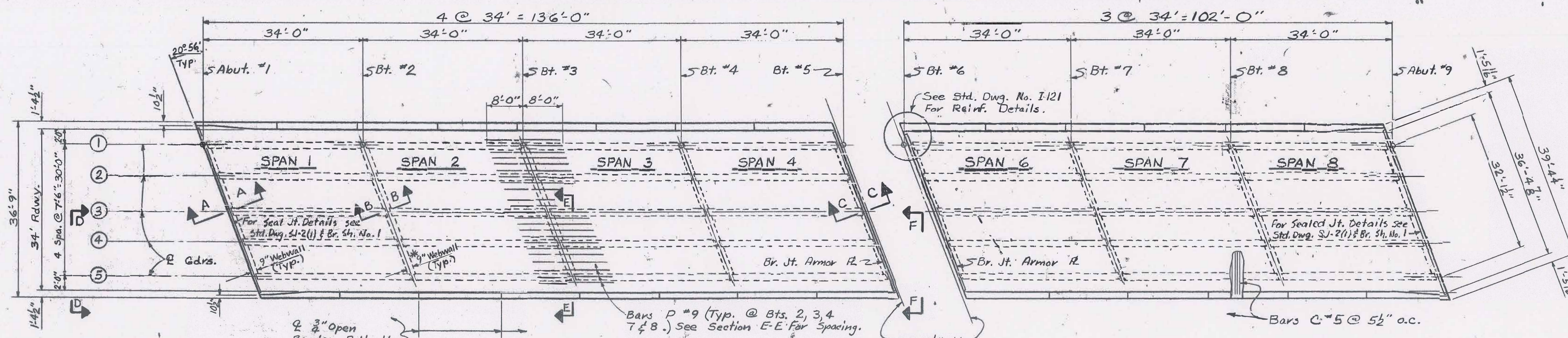
Note: The screed for finishing the bridge deck shall be set to finish grade profile, that is, on straight grades, use a straight screed; in vertical curves, set the vertical curve ordinates in the screed. No camber due to dead load or any other reason shall be set in the screed.



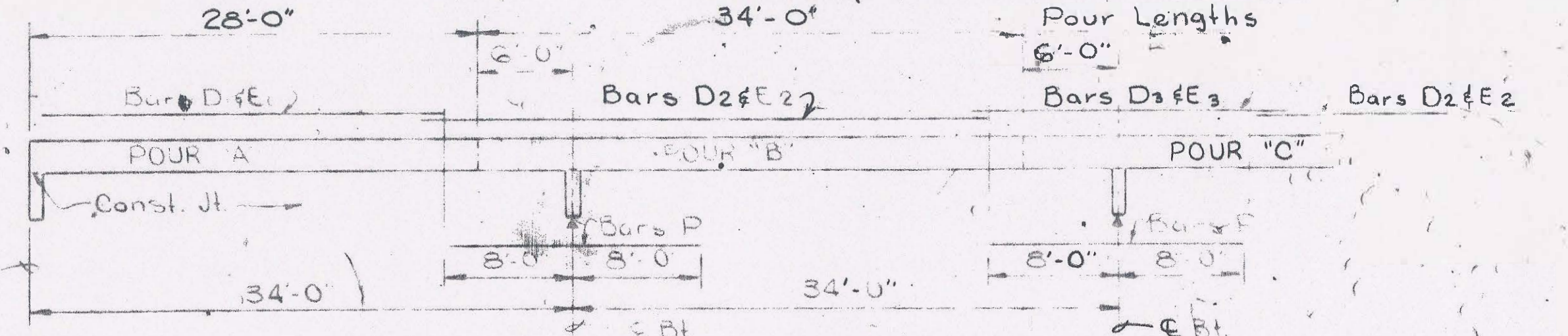
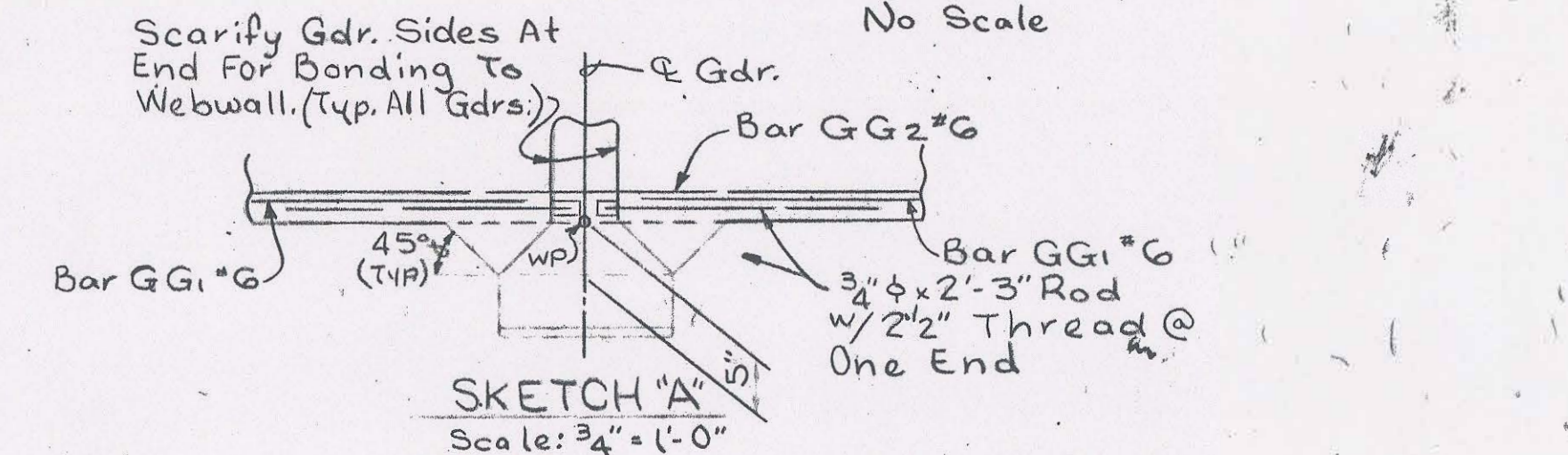
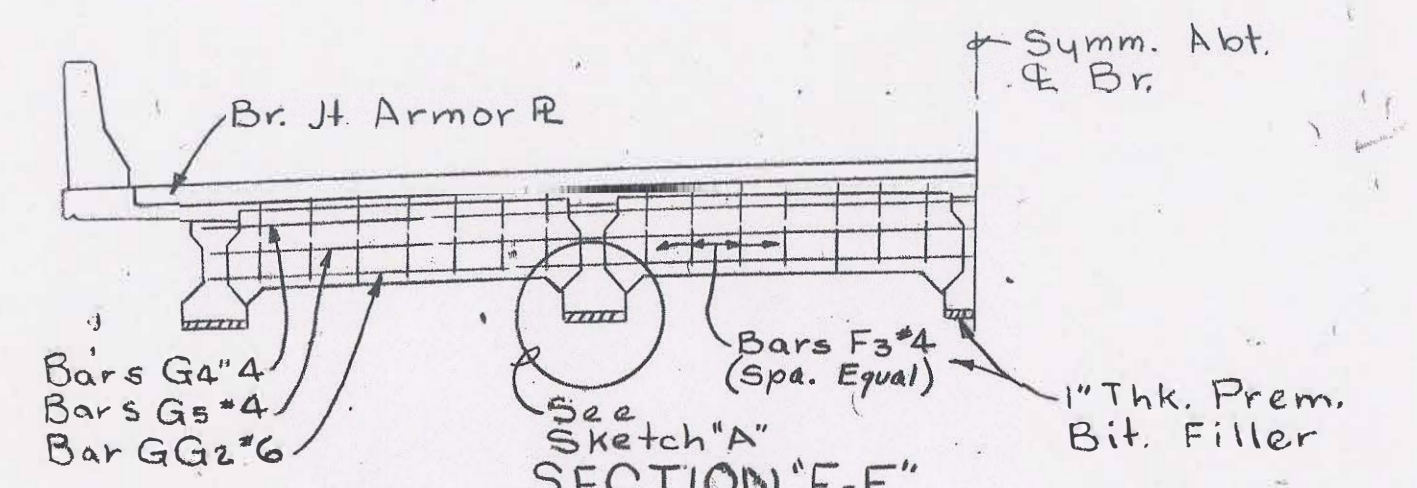
BARS NT & NB

BRIDGE SHEET NO. 3 OF 8		STATE OF ALABAMA			
REVISIONS		HIGHWAY DEPARTMENT			
RECOMMEND APPROVAL		PROJECT NO. RF-214(25)			
SECTION SUPV.		BRIDGE OVER YELLOW LEAF CREEK			
APPROVED		ON COUNTY ROAD 43 @ STA. 23+31.1458			
W. Fred Combs		RELOCATED U.S. 280			
Donal R. Reese		SHELBY COUNTY			
Charles H. Cobb		GIRDER DETAILS (SPANS 1,2,3,4,6,7,8)			
SCALE		DESIGNED: PSC 3434B		QUANTITIES	
As Shown		DRAWN: A.R. CRUMLEY		DATE	
CHECKED: E.M.B.		TRACED		Sept. 75	

1-28-76



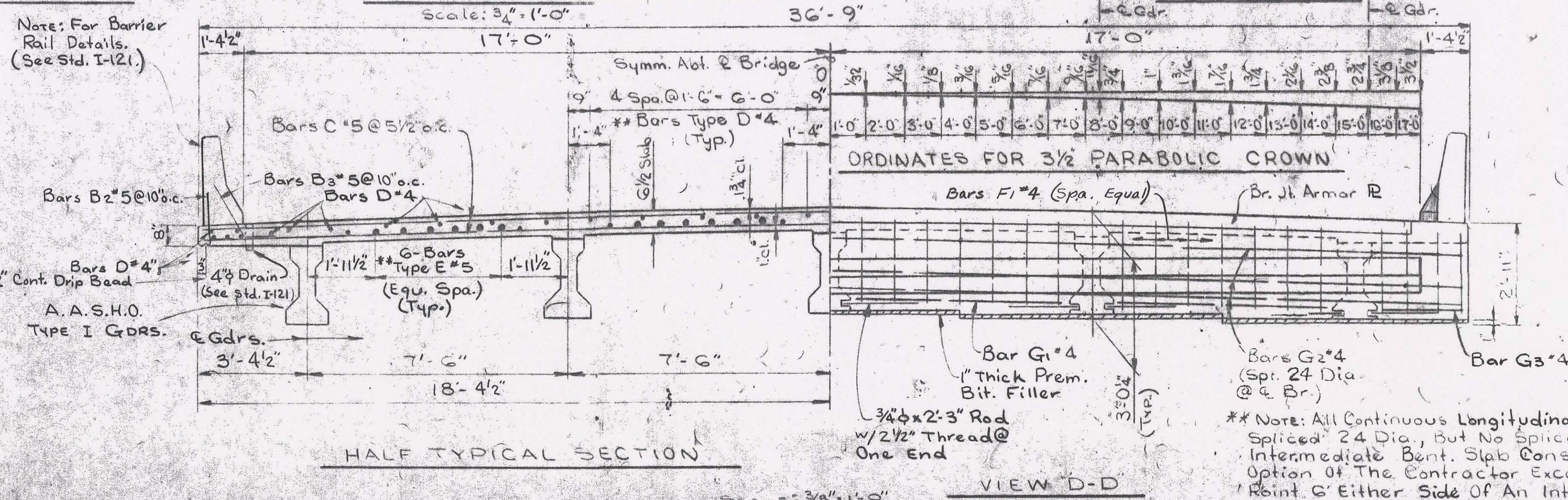
NOTE: For Slab & Curb Reinf. Not Shown In See "E-E" & "F-F" See Typical Section.



NOTE: If Contractor Does Not Desire Pouring Schedule As Shown, He Shall Submit One To Bridge Engineer For Approval. Slab Construction Joints Shall Be At A Point & Either Side Of An Intermediate Bent.

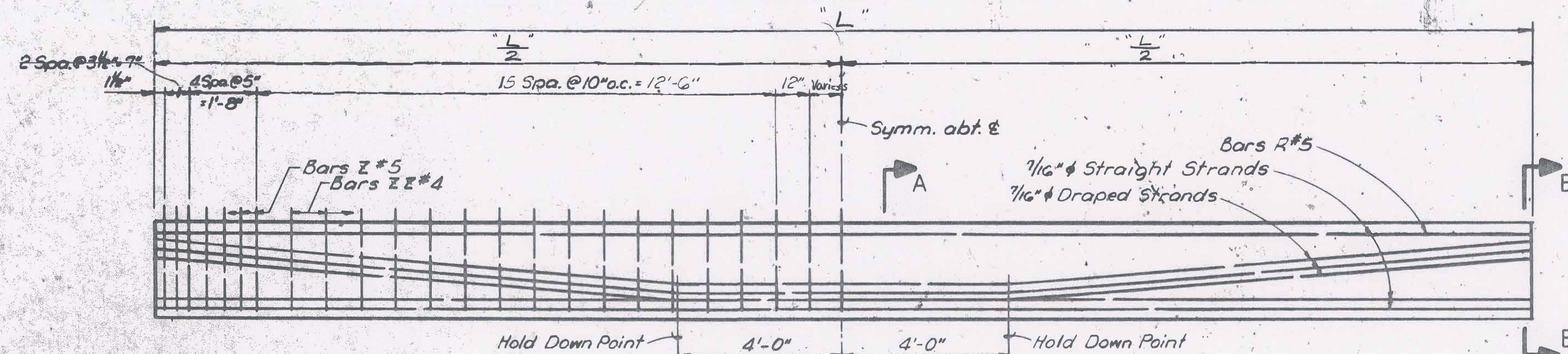
ESTIMATED QUANTITIES	
253	CU. YDS. BRIDGE SUPER. CONCRETE, CLASS "A"
71,350	LBS. STEEL REINFORCEMENT
1660	LBS. STRUCTURAL STEEL

NOTE: For Barrier Rail Details. (See Std. I-121.)



NOTE: All Continuous Longitudinal Slab Bars (D&E) Are To Be Spliced 24 Dia., But No Splice Shall Be Within 8' OR An Intermediate Bent. Slab Const. Jts. May Be Located At The Option Of The Contractor Except That They Shall Be At A Point & Either Side Of An Int. Bent.

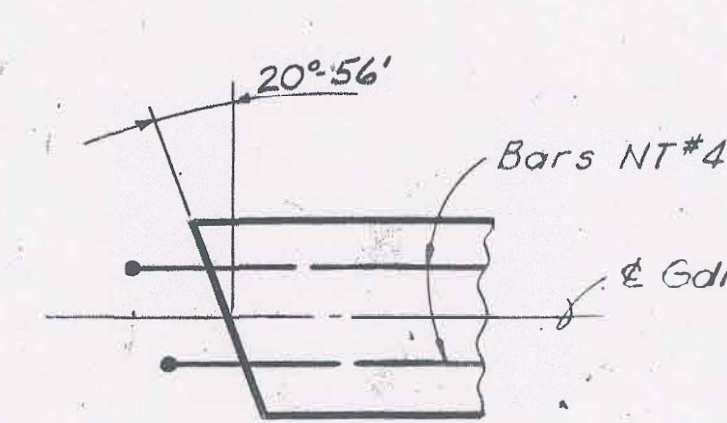
BRIDGE SHEET NO. 2 OF 8		STATE OF ALABAMA	
REVISIONS		HIGHWAY DEPARTMENT	
1. Added Seal Jt. Details. 10/16/76		PROJECT NO. RF-214(25)	
		BRIDGE OVER YELLOW LEAF CREEK	
		ON COUNTY ROAD #43 @ STA. 23+31.1458	
		RELOCATED U.S. 280	
		SHELBY COUNTY	
RECOMMEND APPROVAL		FRAMING PLAN (SPANS 1,2,3,4,6,7&8)	
SECTION SUPERVISOR		SCALE: AS SHOWN	
APPROVED: <i>Donald R. Kucera</i>		DESIGNED: RSC-3434 BR	
CHIEF BRIDGE DESIGN ENGINEER		DRAWN: A.R. CRUMLEY	
BRIDGE ENGINEER		TRACED: <i>E.M.S.</i>	
		QUANTITIES	
		Comp. ARC	
		DATE	
		Sept. 75	



DIMENSION "L"	
SPAN NO.	"L" LENGTH
SPANS 1 & 8	33'-4 1/2"
SPANS 2, 3, & 7	33'-6 3/4"
SPANS 4 & 6	33'-4 1/2"

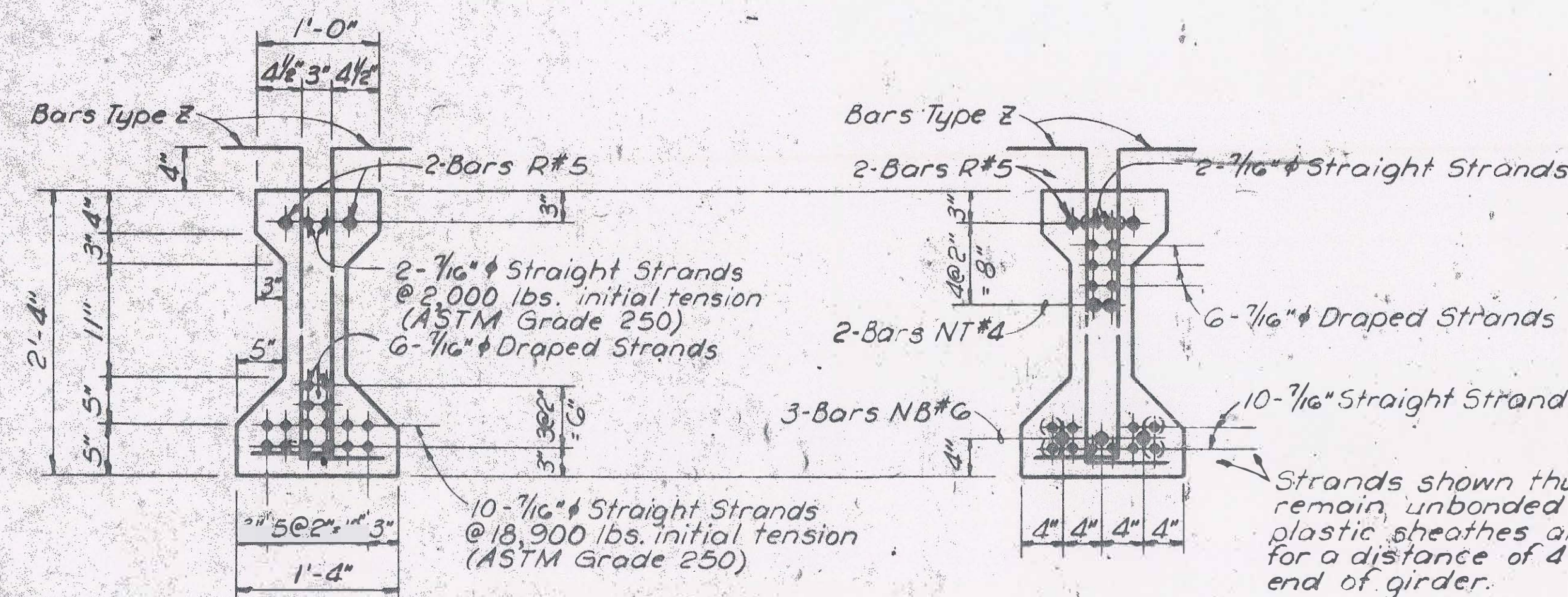
TYPICAL GIRDER ELEVATION

Scale: 1/2"=1'-0"



PLAN SECTIONS SHOWING BARS TYPE "N"

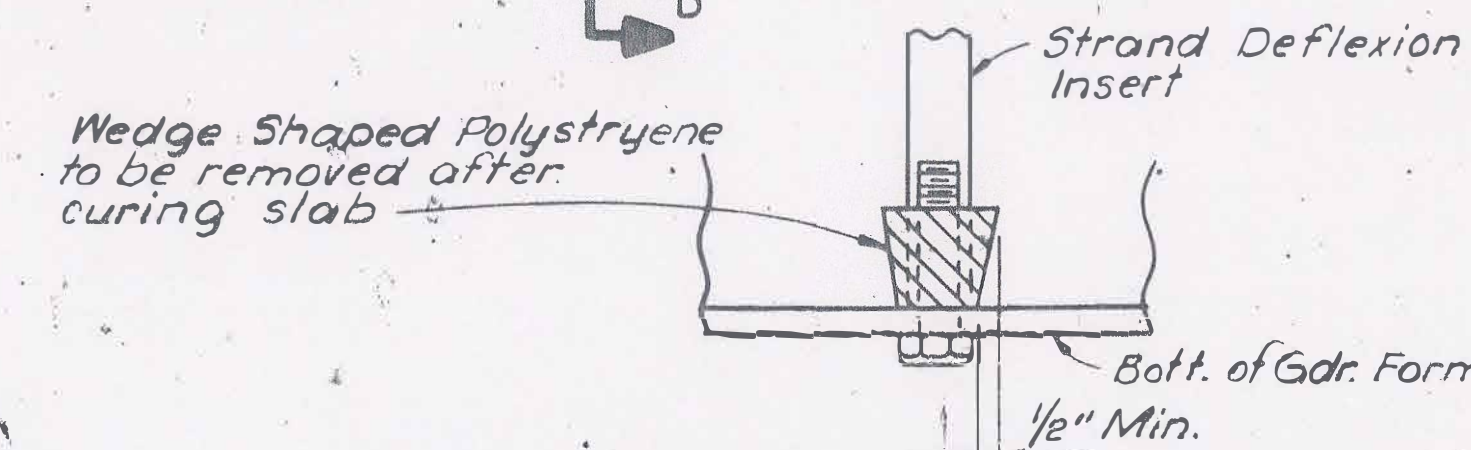
Scale: 1"=1'-0"



SECTION A-A

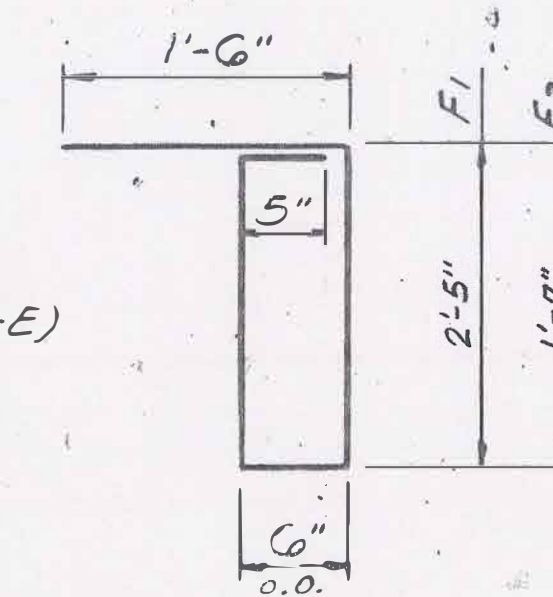
Scale: 1"=1'-0"

SECTION B-B

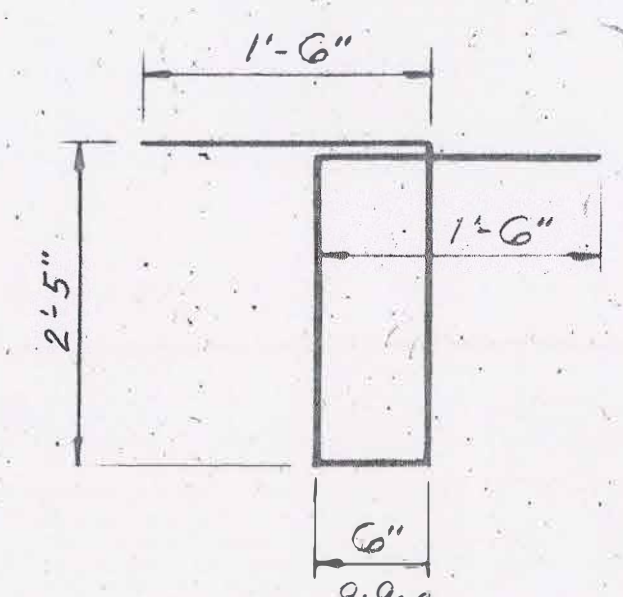


HOLE'S @ HOLD-DOWN POINTS

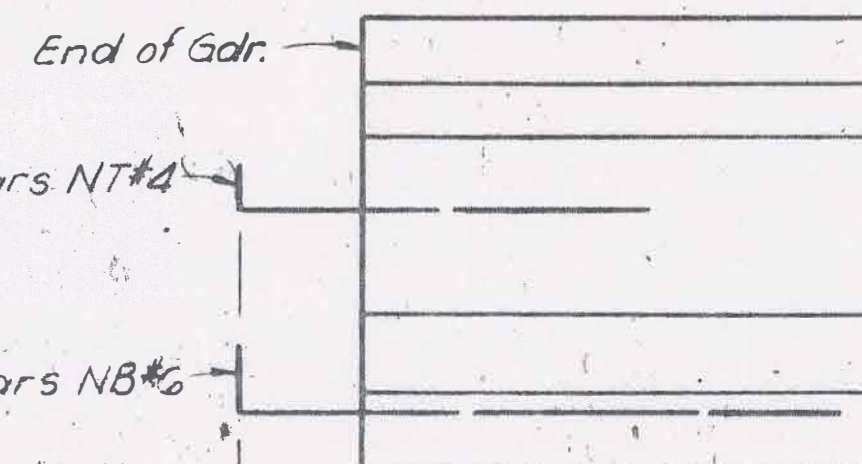
Special Polystyrene Plug for forming wedge shaped holes (See Std. No. GNI-1, Note No. 52-E)



BARS F1, F3

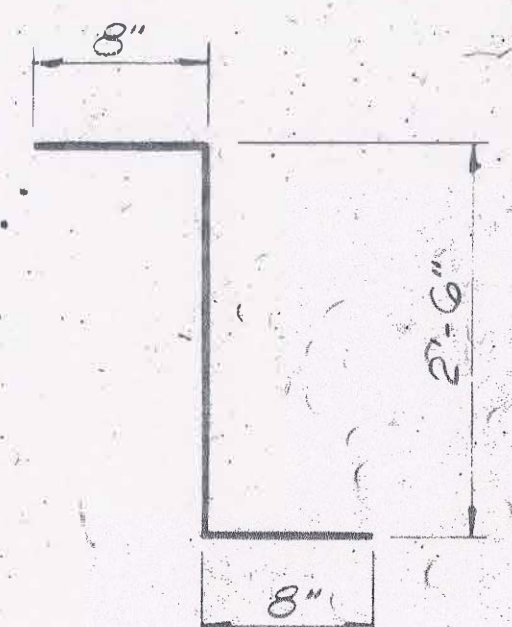


BAR F2



DETAIL OF BARS @ END OF GIRDER

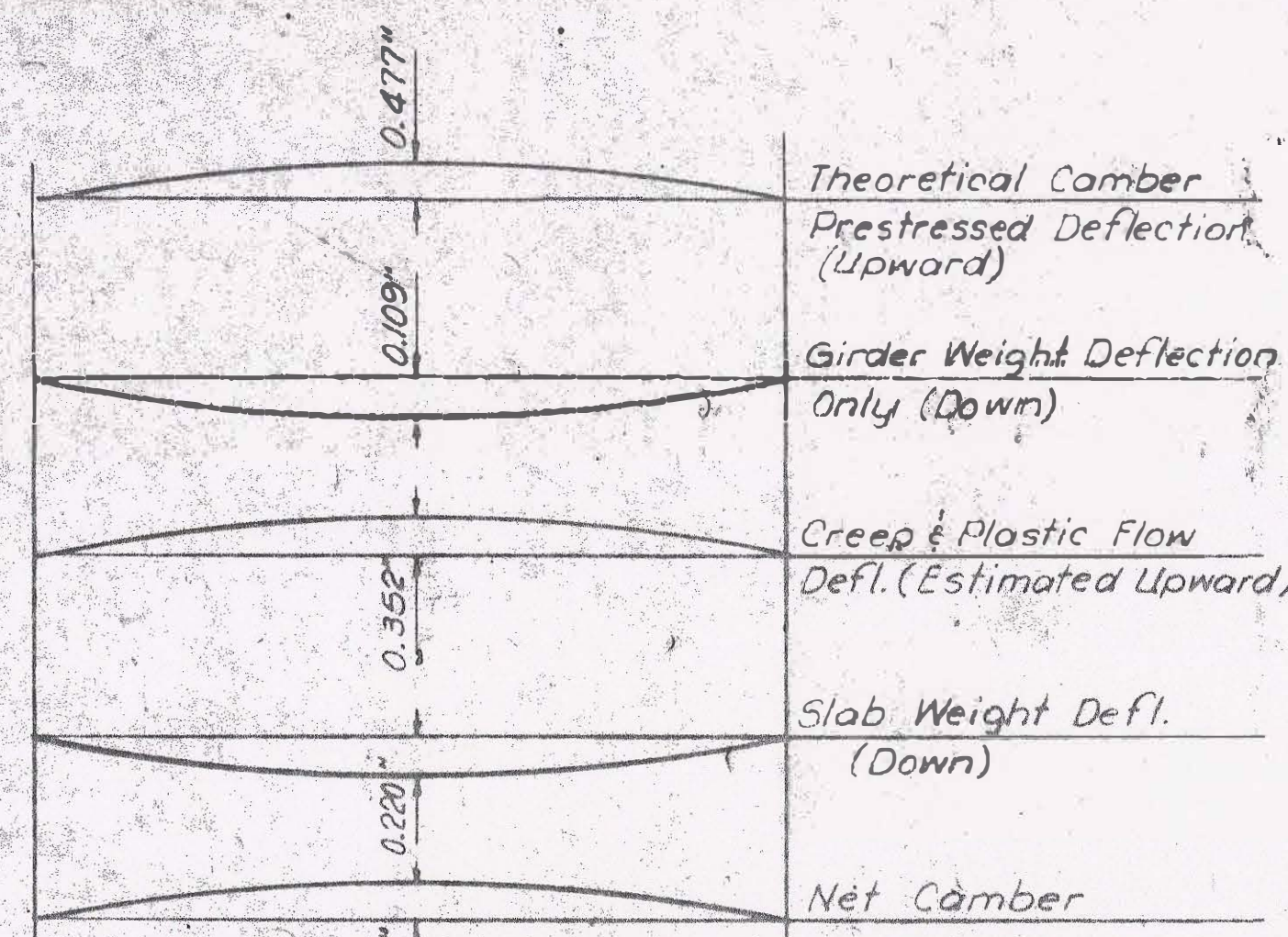
Scale: 1"=1'-0"



BAR Z & Z'

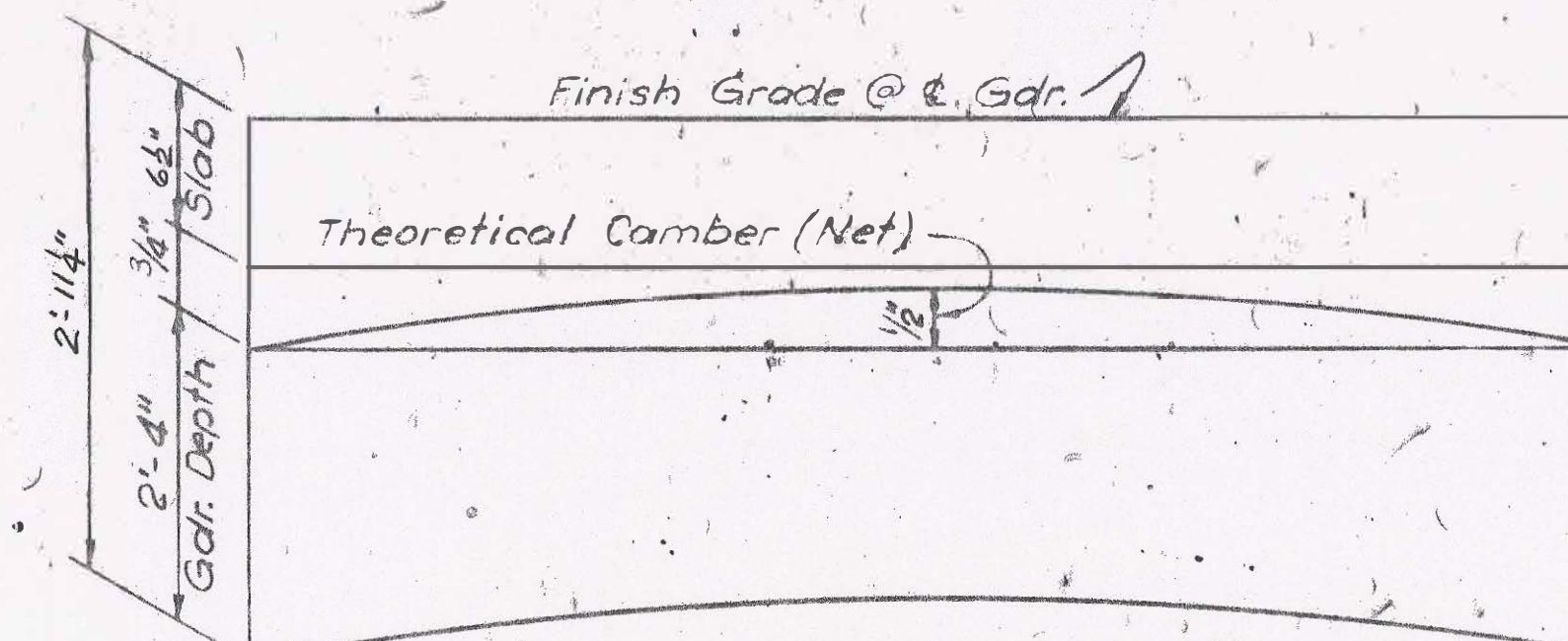
Note: Girders shall be Type I AASHTO Standard Prestressed Concrete Beams.

*The Contractor shall check grades on beams prior to pouring slab and make any adjustments needed in camber.



THEORETICAL CAMBER

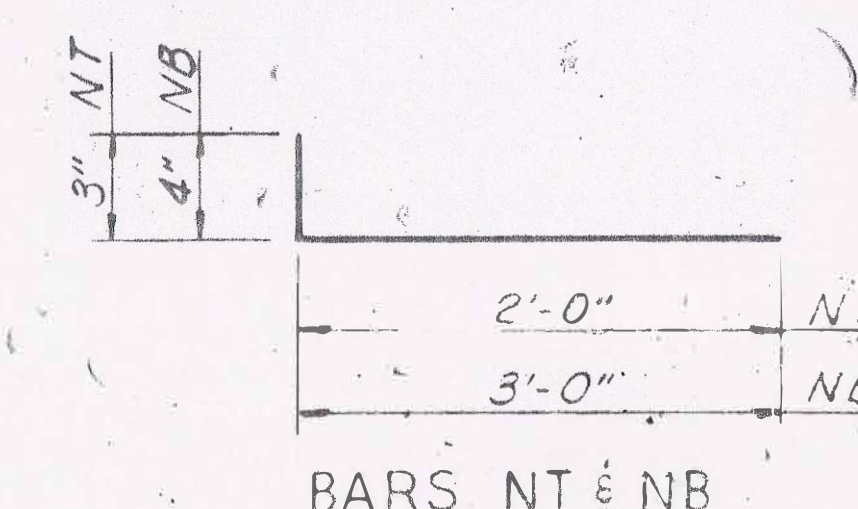
No Scale



SKETCH SHOWING THEORETICAL FINAL POSITION OF GIRDER WITH SLAB IN PLACE

No Scale

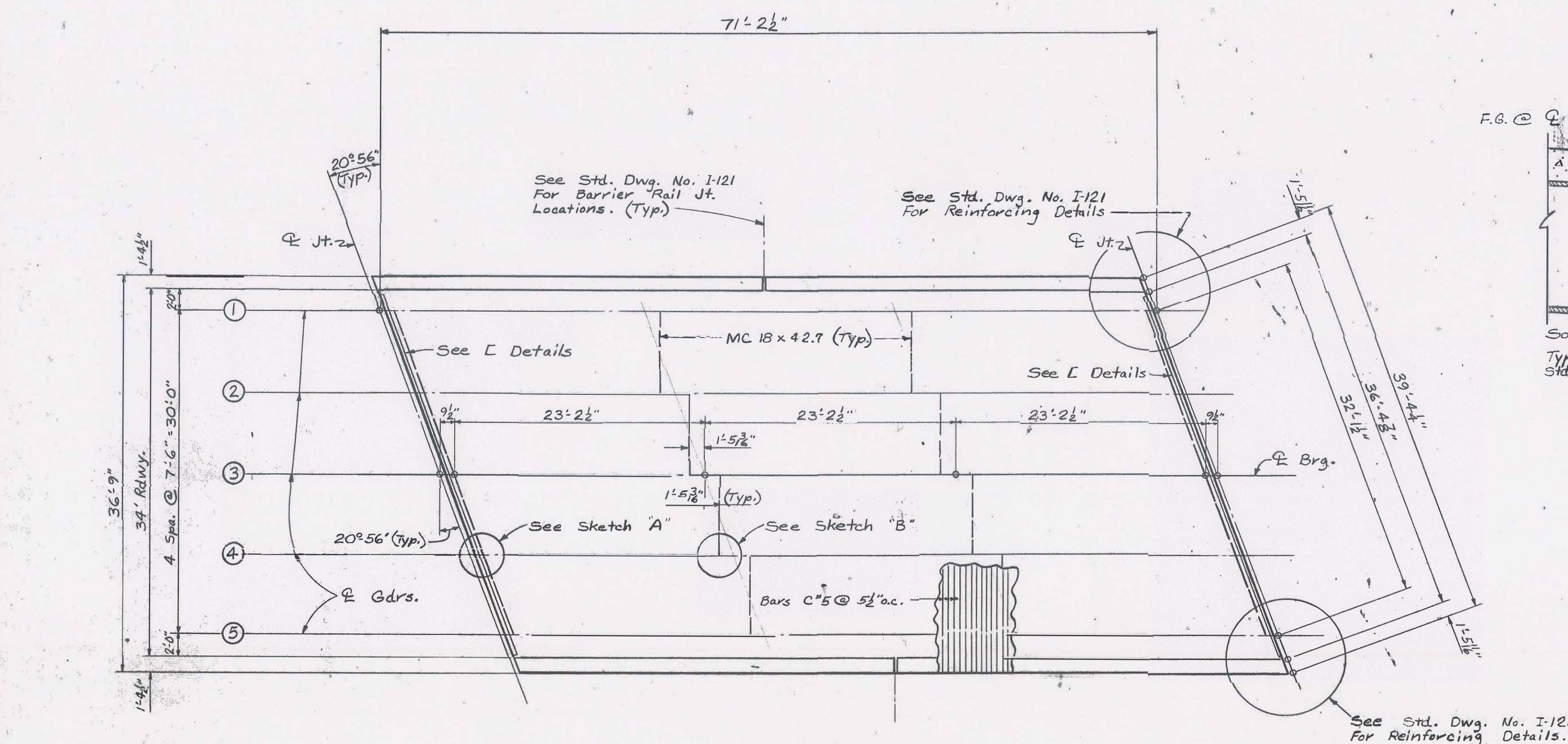
Note: The screed for finishing the bridge deck shall be set to finish grade profile, that is, on straight grades, use a straight screed; in vertical curves, set the vertical curve ordinates in the screed. No camber due to dead load or any other reason shall be set in the screed.



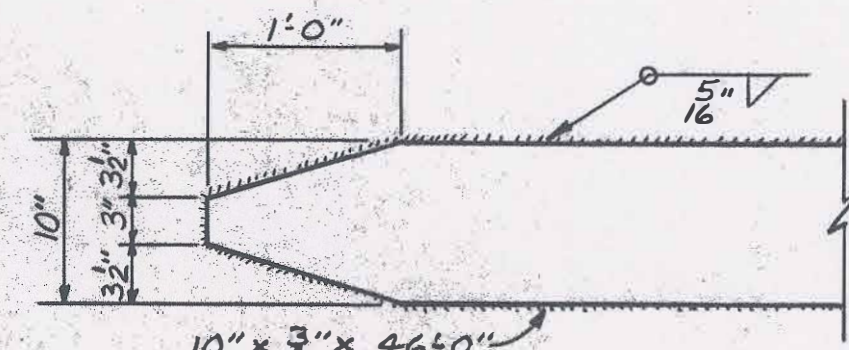
BARS NT & NB

BRIDGE SHEET NO 3 OF 8		STATE OF ALABAMA	
REVISIONS		HIGHWAY DEPARTMENT	
RECOMMEND APPROVAL SECTION SUPV. W. Fred Conway APPROVED Donald R. Lucas Charles H. Cook BRIDGE ENGINEER		PROJECT NO. RF-214(25) BRIDGE OVER YELLOW LEAF CREEK ON COUNTY ROAD 43 @ STA. 23+31.1458 RELOCATED U.S. 280 SHELBY COUNTY	
		GIRDER DETAILS (SPANS 1,2,3,4,6,7,8)	
SCALE As Shown	DESIGNED: PSC 3434BR DRAWN: A.R. CRUMLEY TRACED CHECKED: E.M.B.	QUANTITIES	DATE Sept. 75

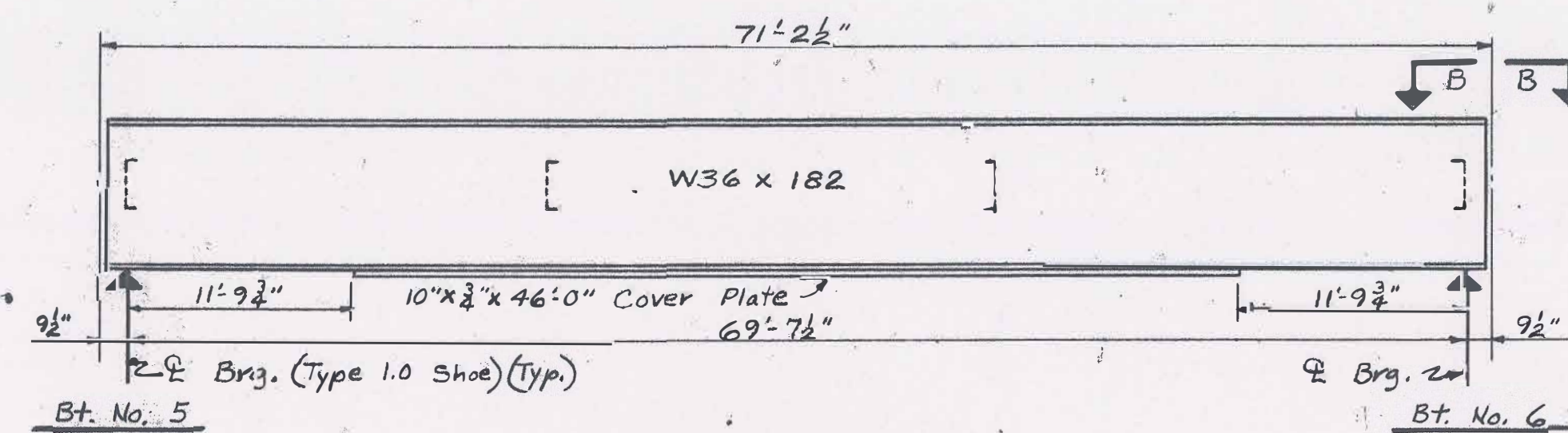
1-28-76



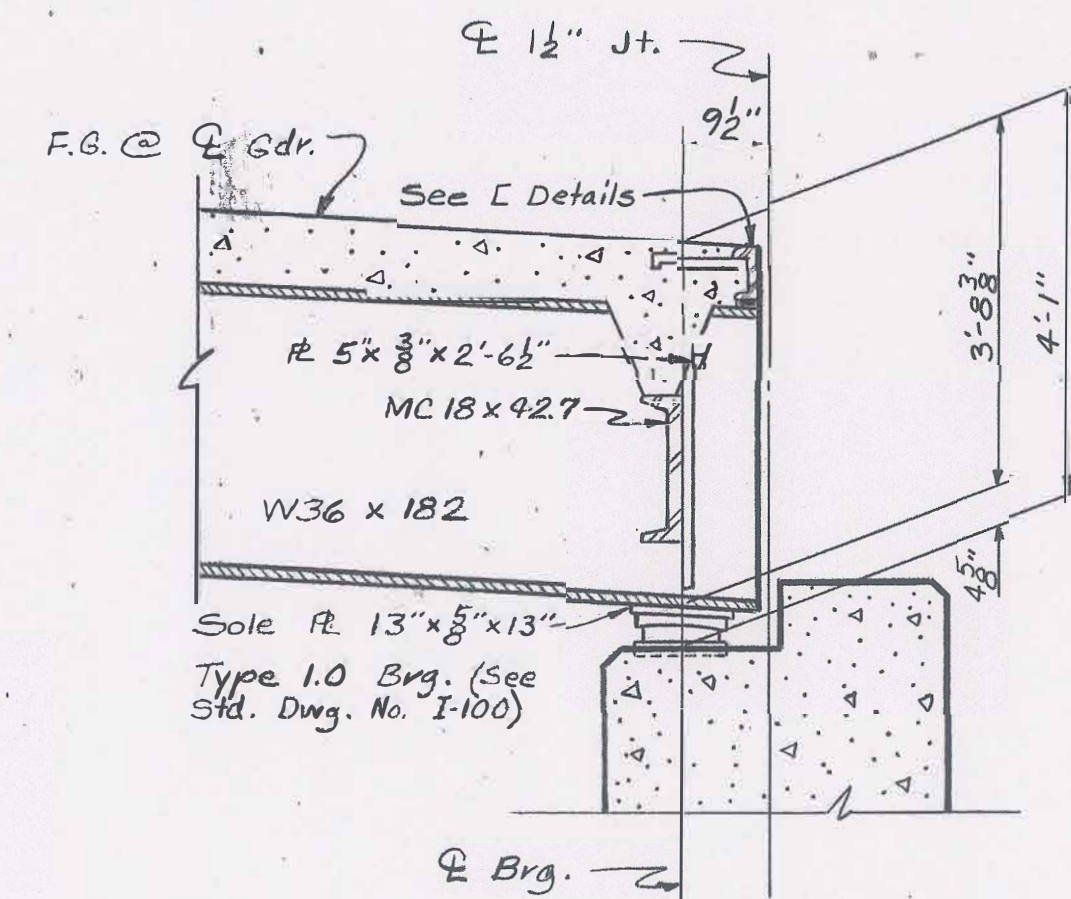
FRAMING PLAN



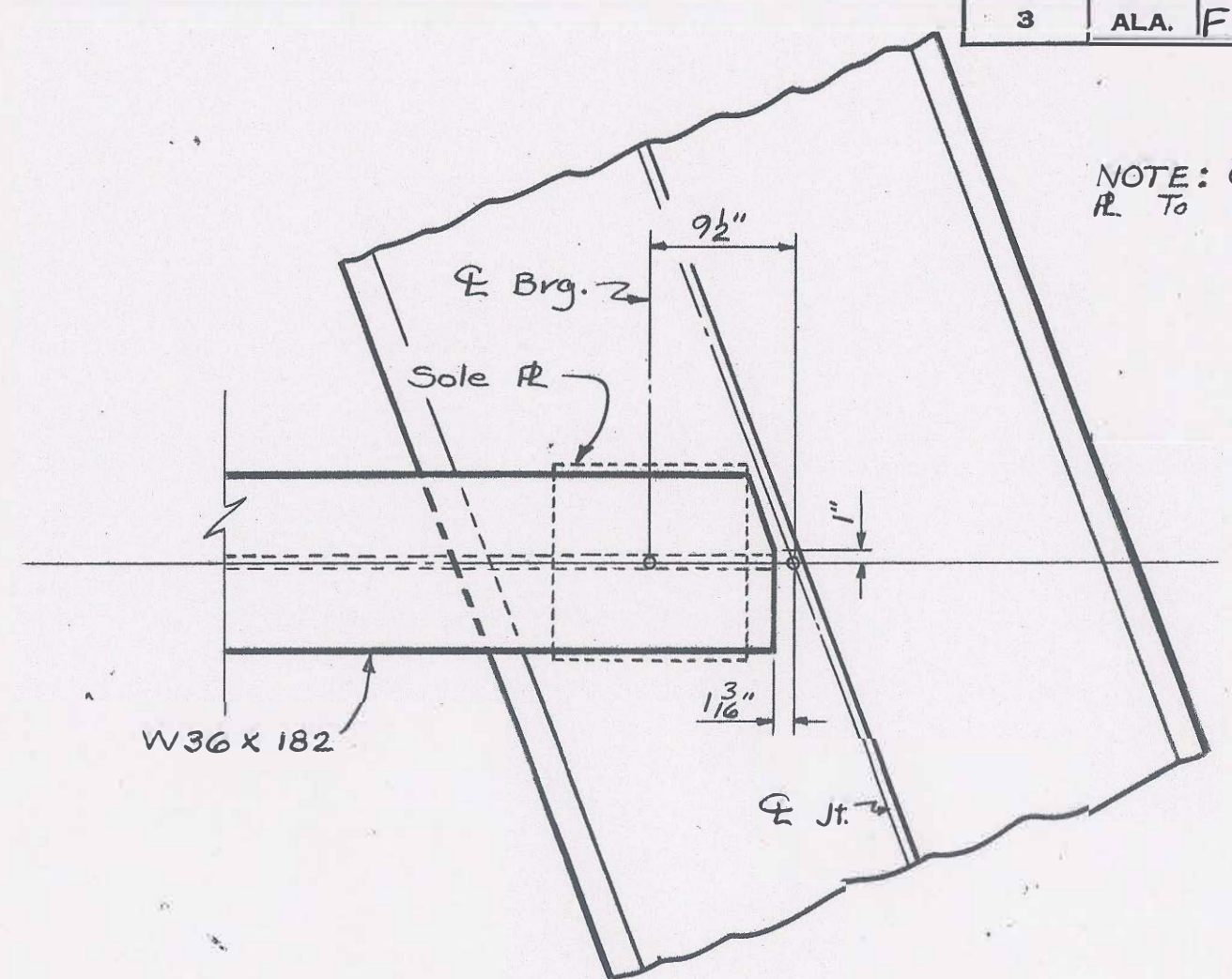
COVER & DETAILS



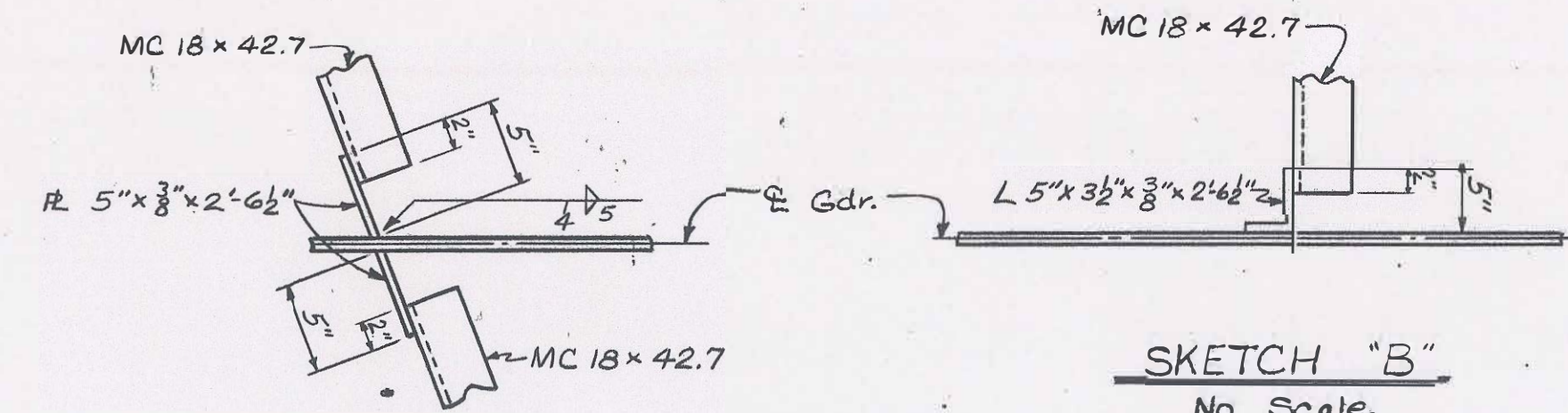
GIRDER DETAIL
No Scale



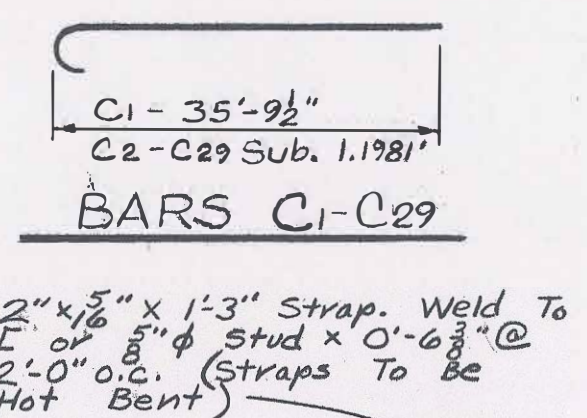
AT BENT 5 & 6
Scale: $\frac{1}{2}" = 1'-0"$



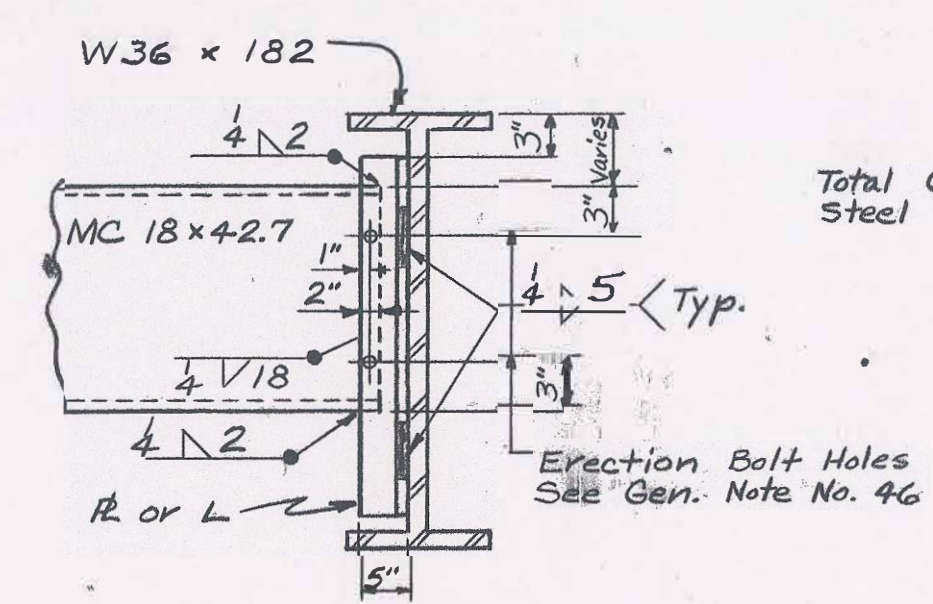
SECTION B-B
Scale: 1" = 1'-0"



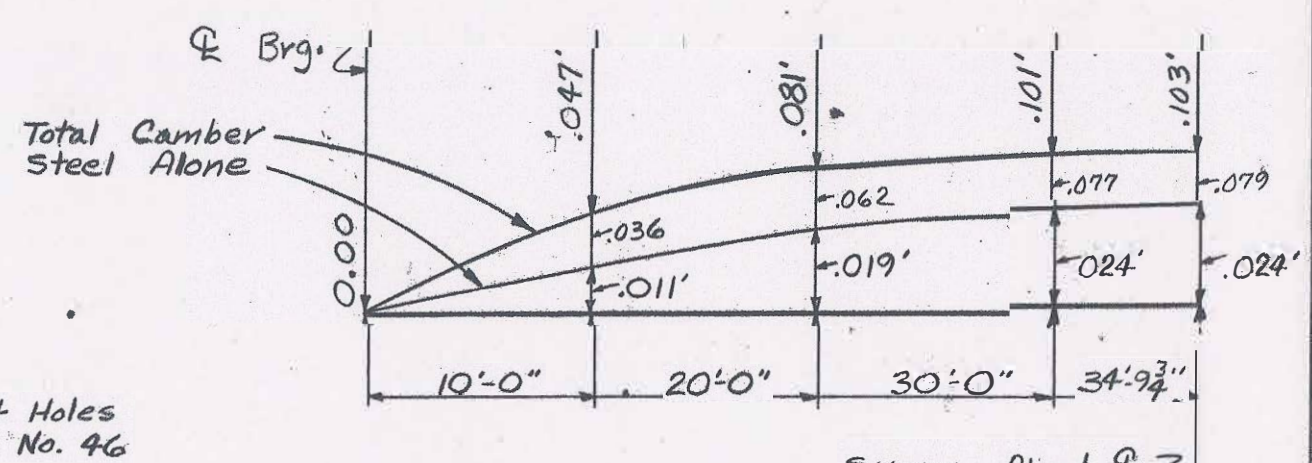
SKETCH "A"
No Scale



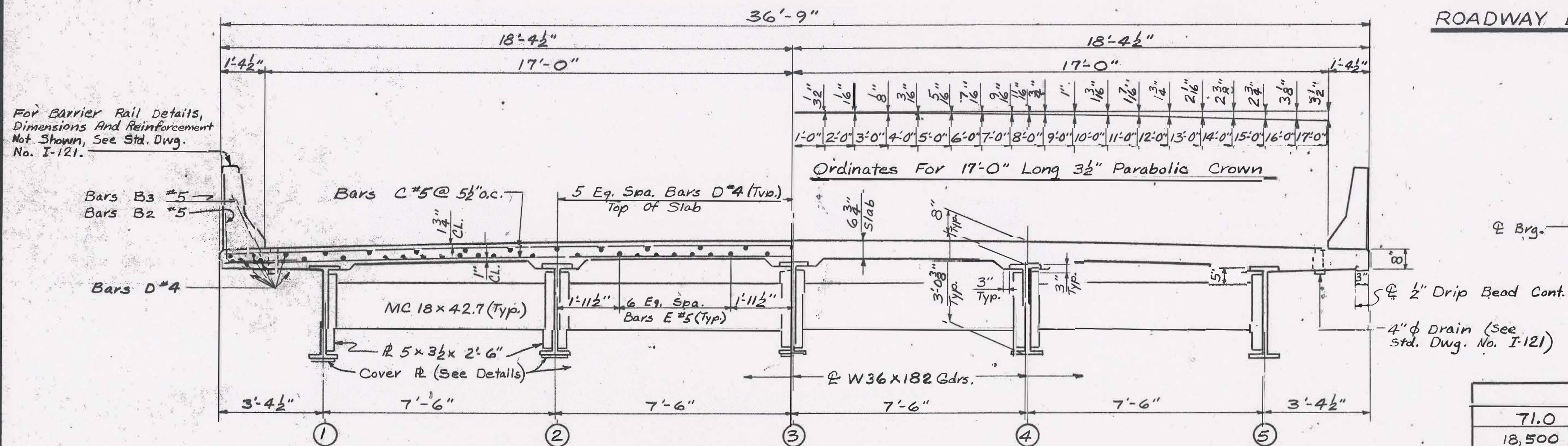
ROADWAY C DETAILS



TYPICAL DIAPHRAGM CONN.

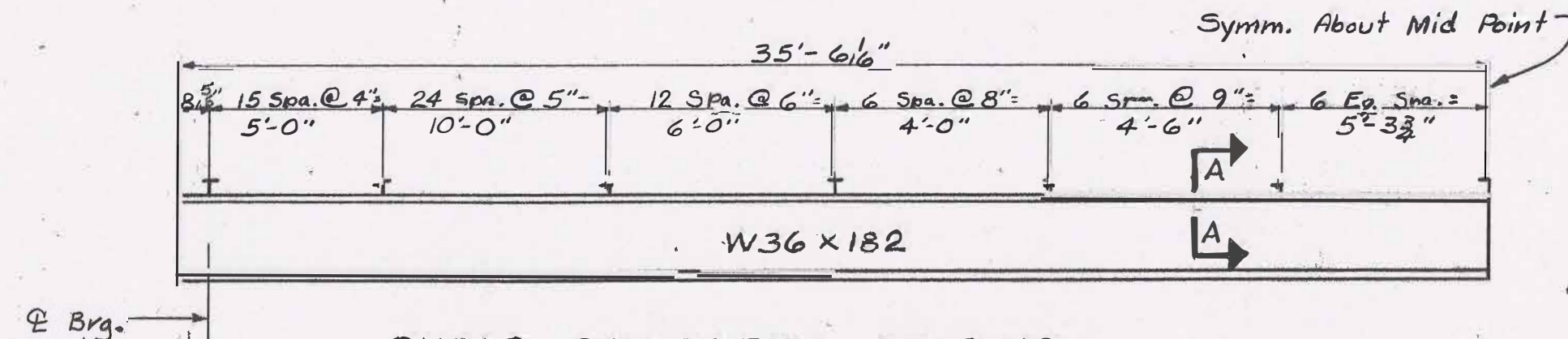


DEAD LOAD CAMBER DIAGRAM

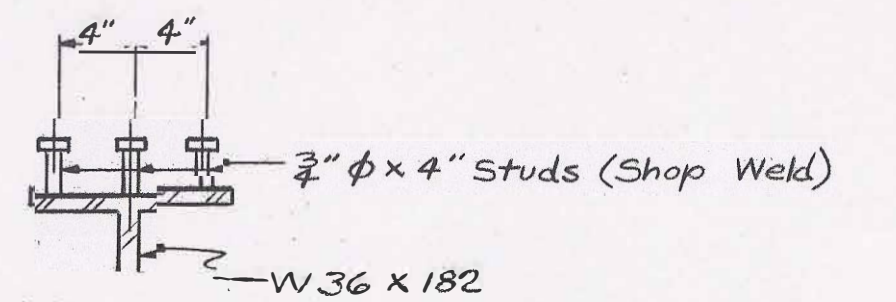


TYPICAL CROSS SECTION
Scale : $\frac{3}{8}'' = 1'-0''$

NOTE: Splice Bars D & E 24 Dia.



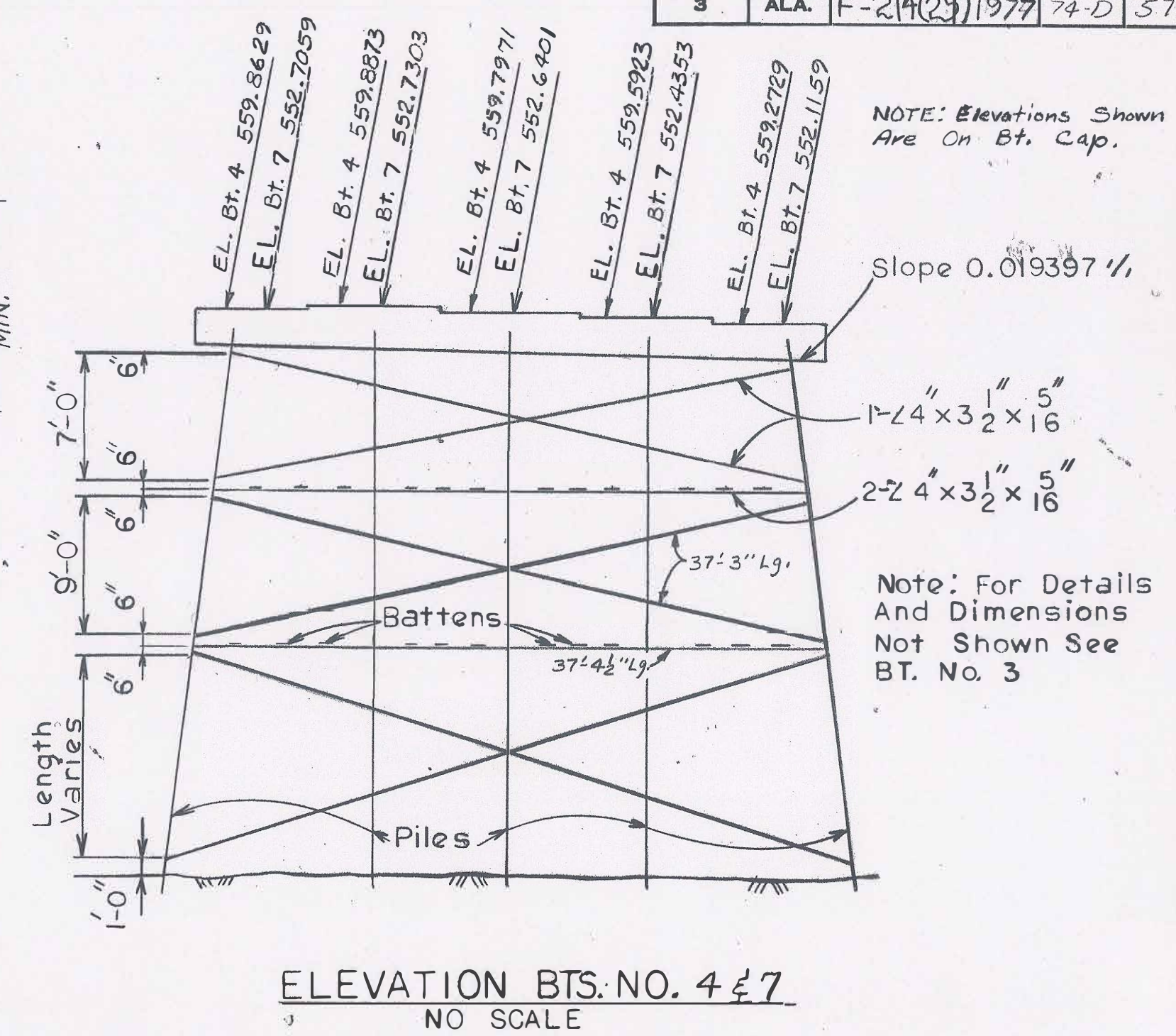
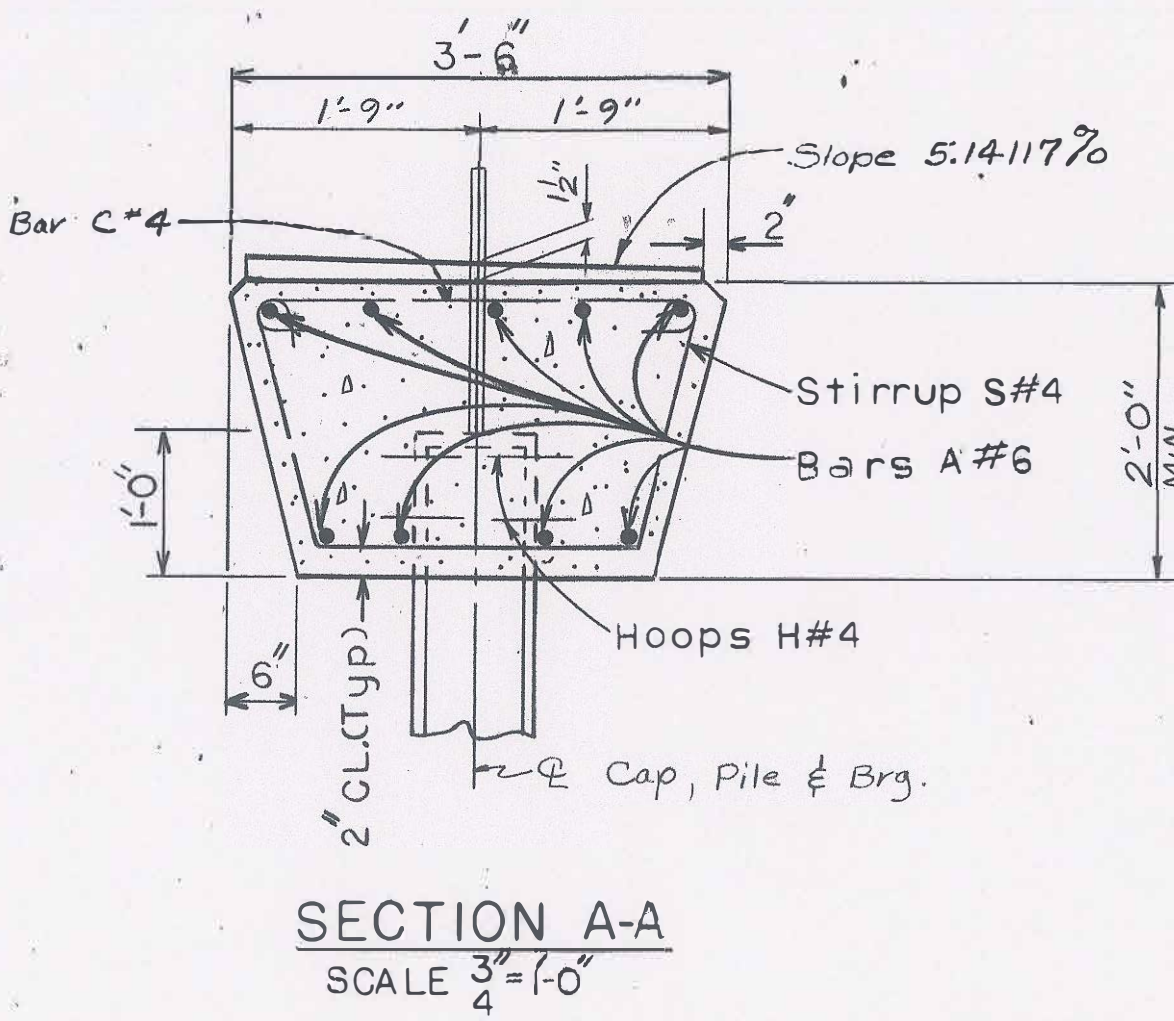
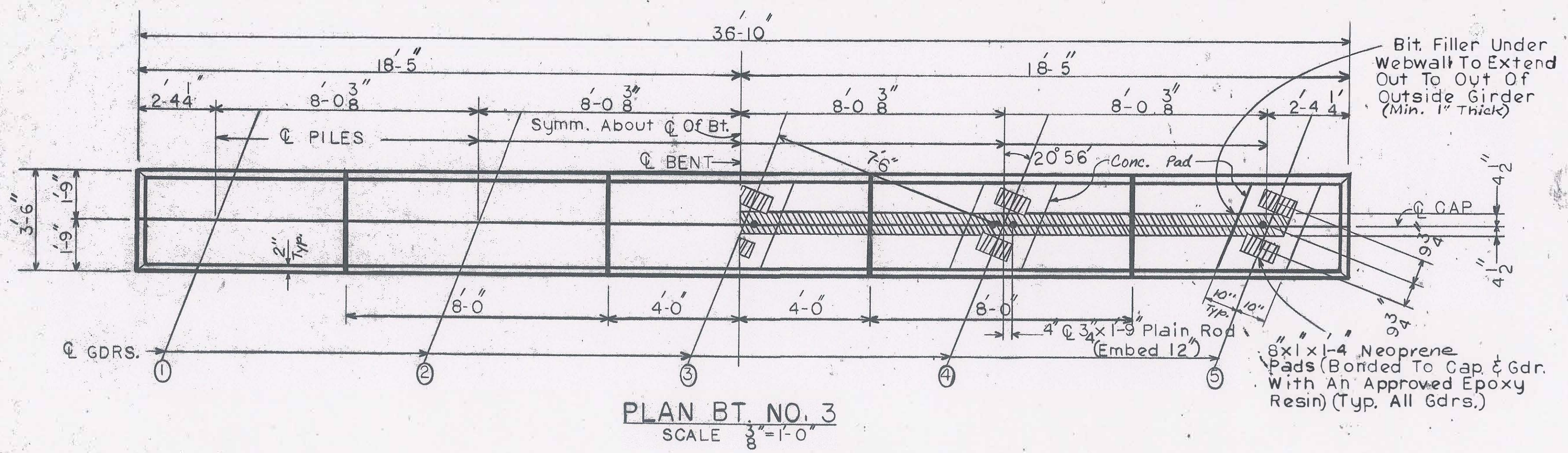
SHEAR CONNECTOR SPACING



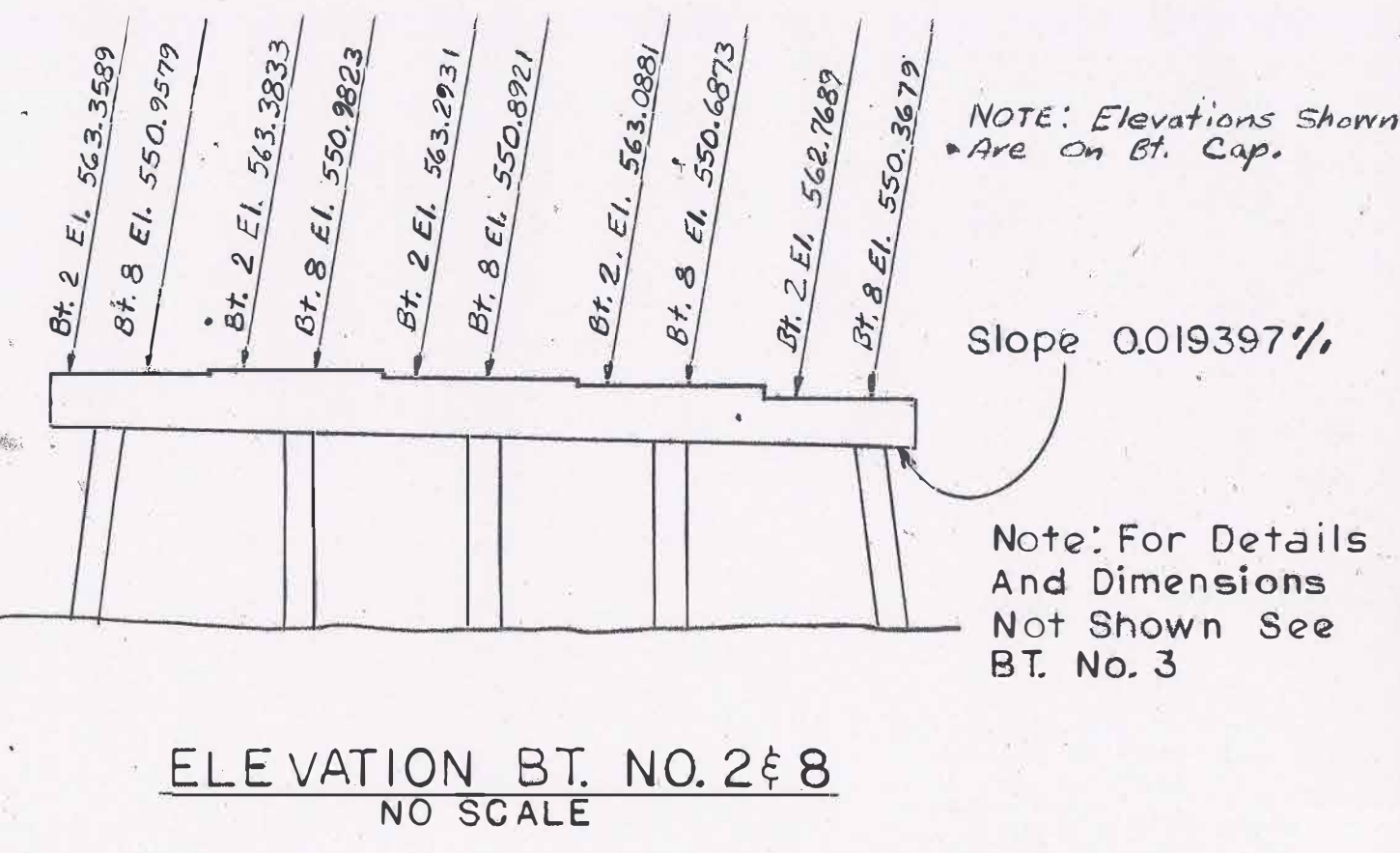
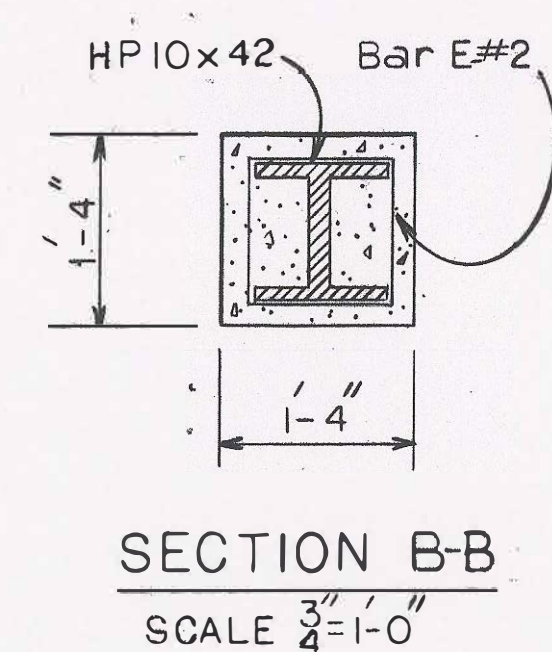
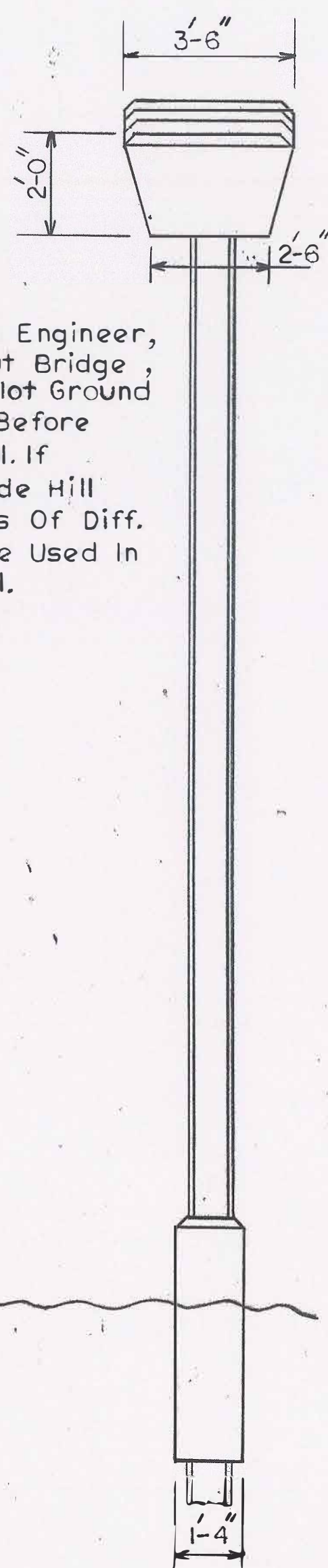
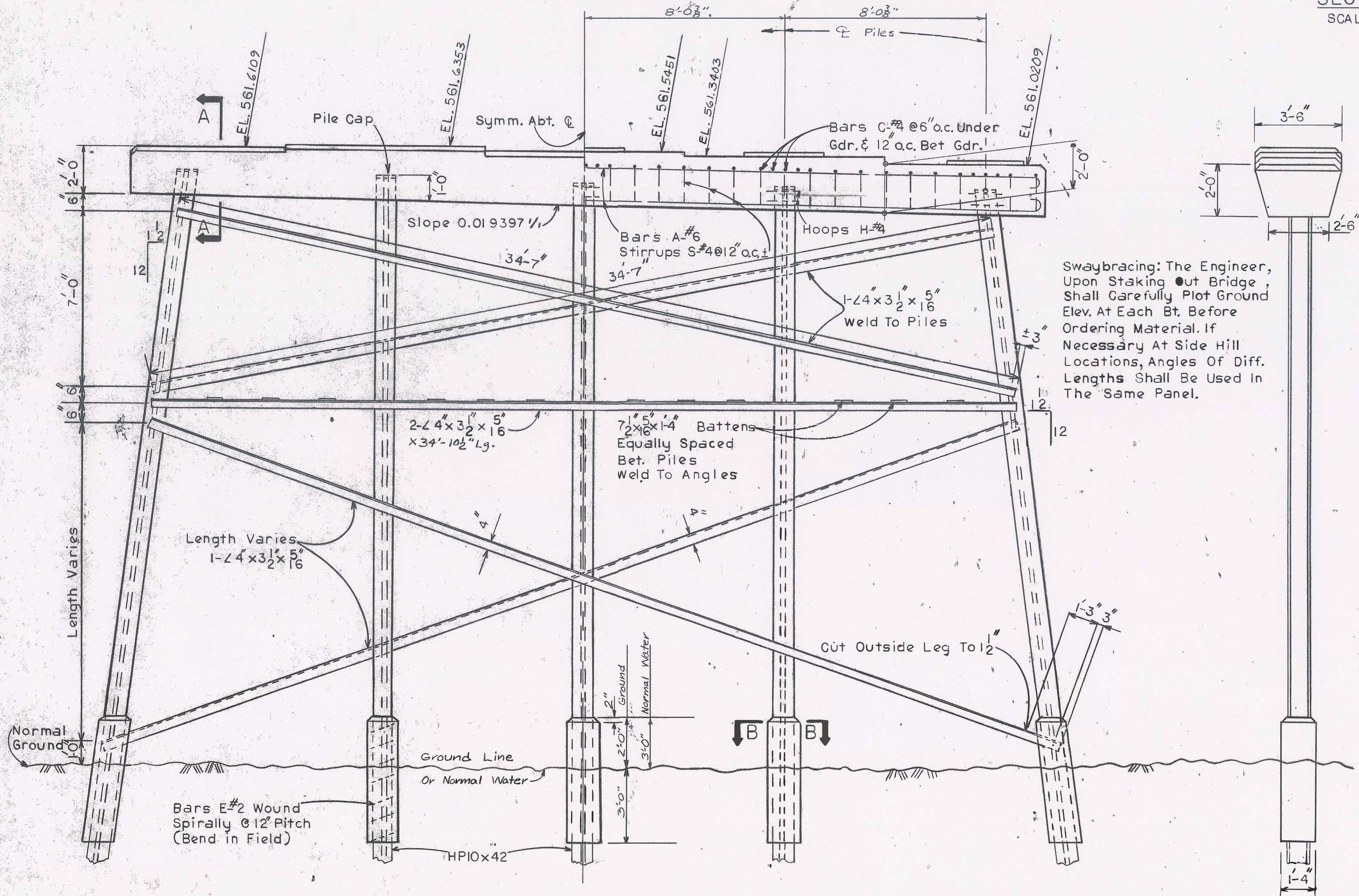
SECTION A-A

ESTIMATED QUANTITIES	
71.0	Cu. Yds. Bridge Superstructure Conc. Cl. "A"
18,500	Lbs. Steel Reinforcement
79,530	Lbs. Structural Steel

BRIDGE SHEET NO. 4 OF 8		STATE OF ALABAMA	
REVISIONS		HIGHWAY DEPARTMENT	
		PROJECT NO. RF-214 (25)	
		BRIDGE OVER YELLOW LEAF CREEK ON COUNTY RD. #43 @ STA. 23+31.1458 RELOCATED U.S. 280 SHELBY COUNTY	
RECOMMEND APPROVAL		SPAN DETAILS (71'22") SPAN NO. 5	
SECTION SUPER. <i>W. Speed Conway</i>			
APPROVED <i>Charles R. Crumley</i> CHIEF BRIDGE DESIGN ENGINEER	SCALE: As Shown	DESIGNED: B-28053 DRAWN: A.R. CRUMLEY TRACED: CHECKED: <i>EMR</i>	QUANTITIES Comp. ARC Ck. G.N.B.
BRIDGE ENGINEER <i>Charles H. Coste</i>			DATE Sept. 75



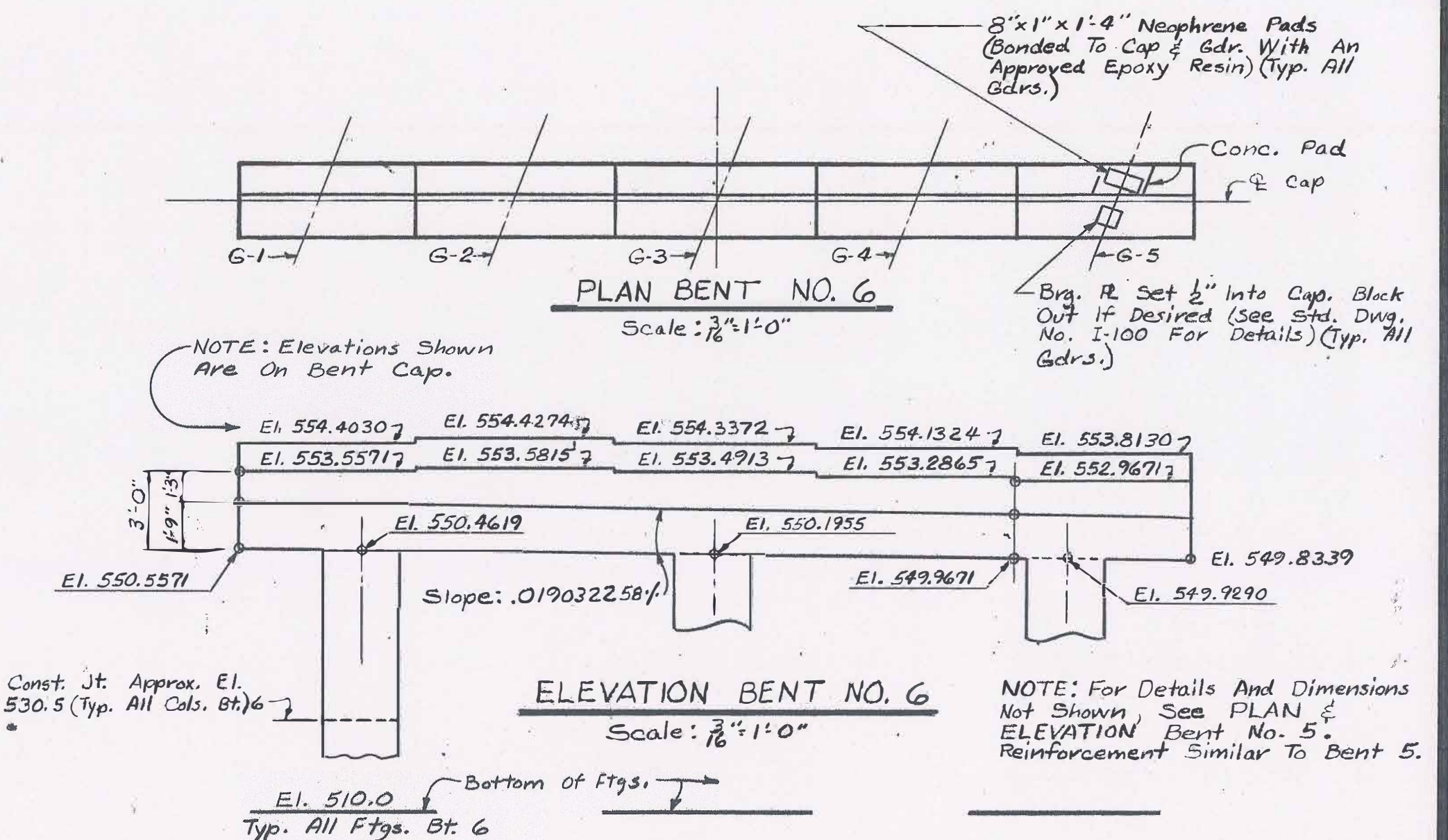
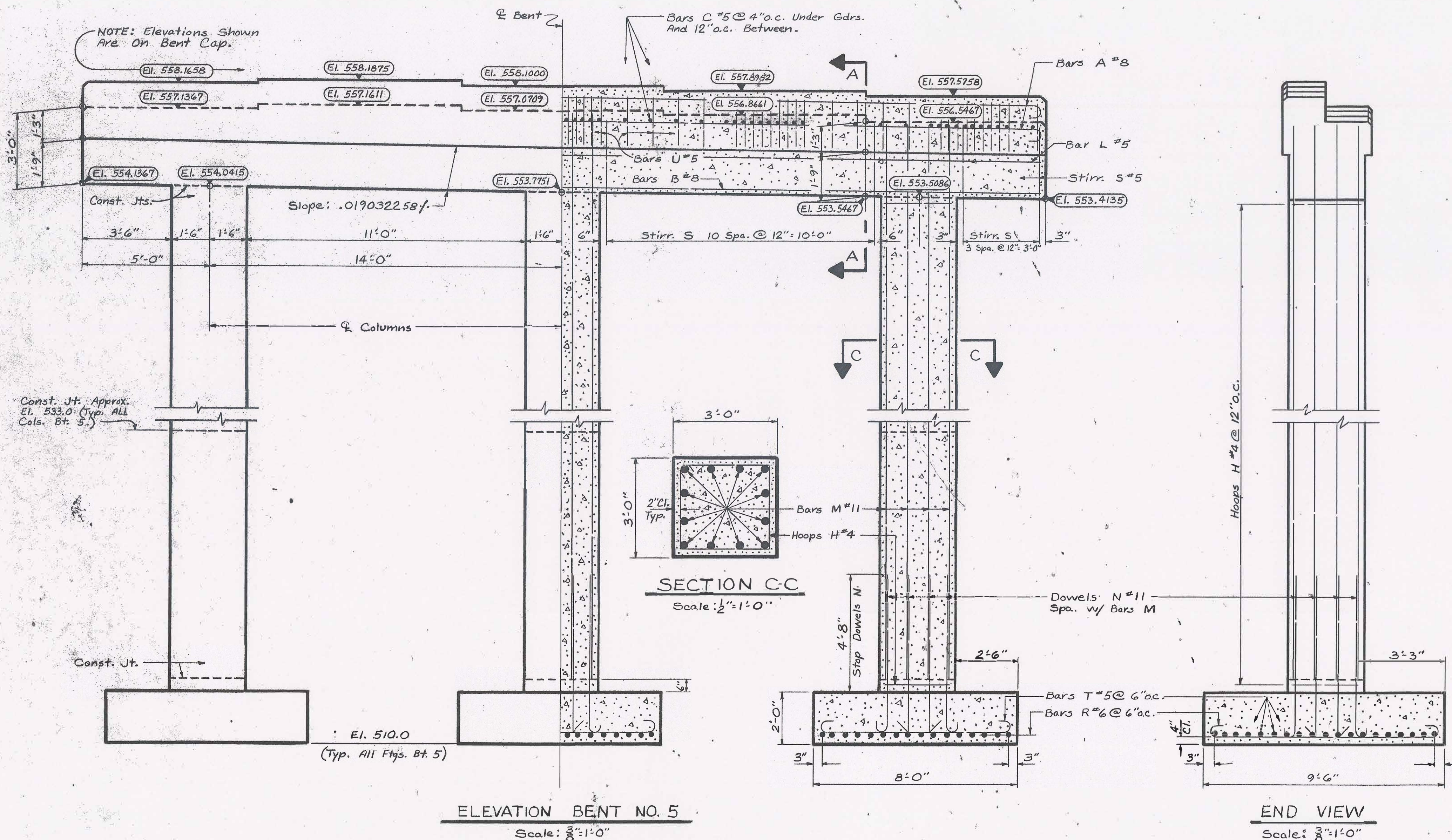
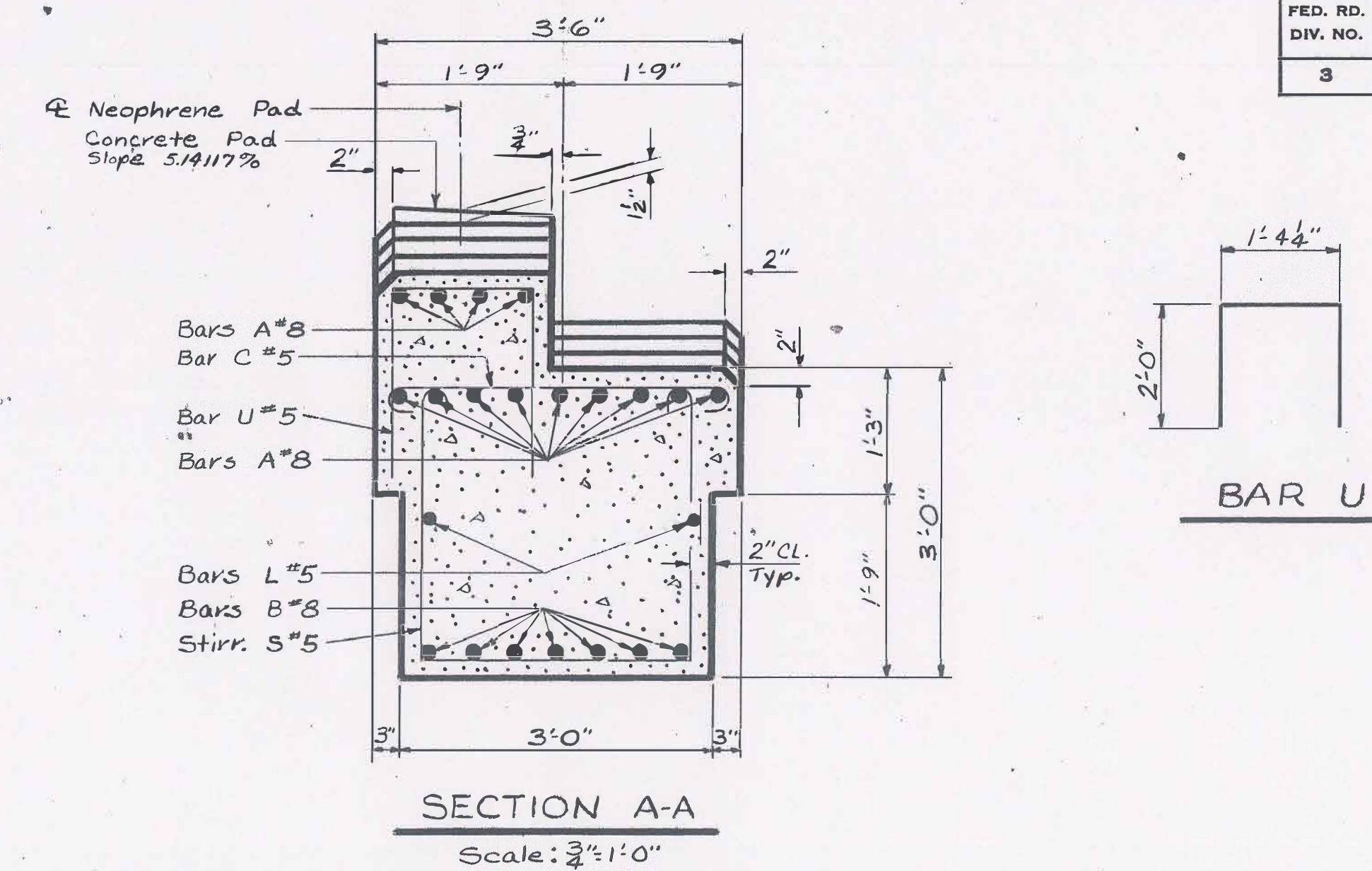
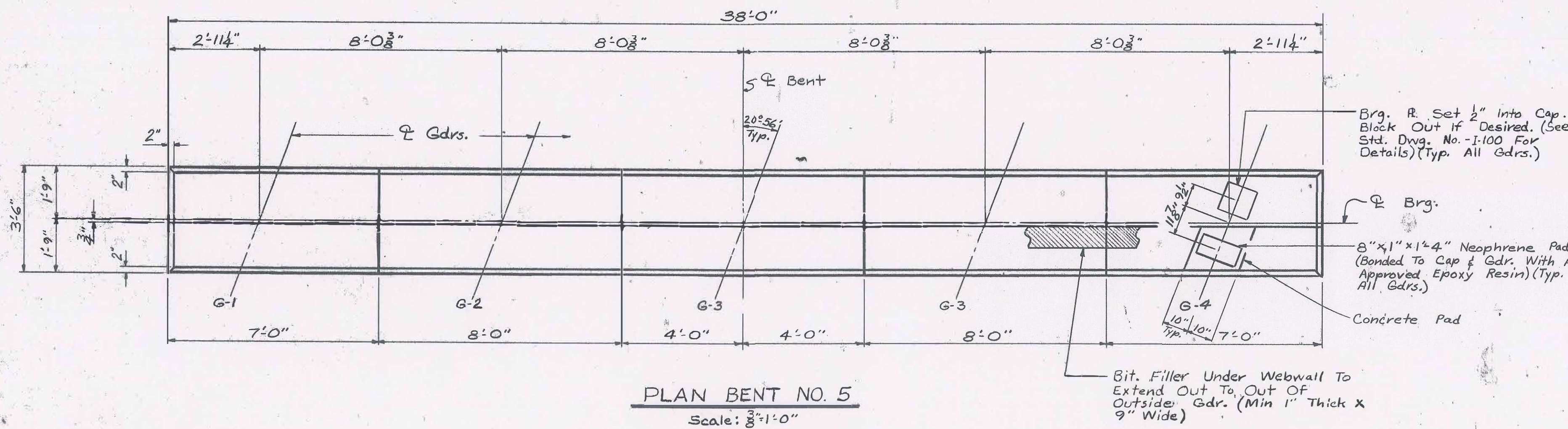
	BT. 2	BT. 3	BT. 4	BT. 7	BT. 8
Cu. Yds. Substructure Bridge Concrete Class A	12.2	9.9	10.0	10.0	13.5
Lbs. Steel Reinforcement	850	830	830	830	860
Lbs. Structural Steel	75	1875	3200	3160	75



NOTE: For Pile Cap Plate And Pile Splice Details See Std. Dwg. NO I-121 (2 Sheets)

BRIDGE SHEET NO. 5 OF 8		STATE OF ALABAMA HIGHWAY DEPARTMENT	
REVISIONS		PROJECT NO. RF-214(25) BRIDGE OVER YELLOW LEAF CRK. ON COUNTY ROAD #43 @ STA. 23+31.1458 RELOCATED U.S. 280 SHELBY COUNTY	
RECOMMEND APPROVAL SECTION SUPERVISOR W. Fred Conway		BENTS 2,3,4,7 & 8	
APPROVED: Charles E. Rivas CHIEF BRIDGE DESIGN ENGINEER		SCALE: AS SHOWN	DESIGNED: PB-3434-30 DRAWN: F.C. JULIAN TRACED: CHECKED: E.M.B.
BRIDGE ENGINEER		QUANTITIES COMP: ARC CKD: G.N.B.	DATE 7-29-75

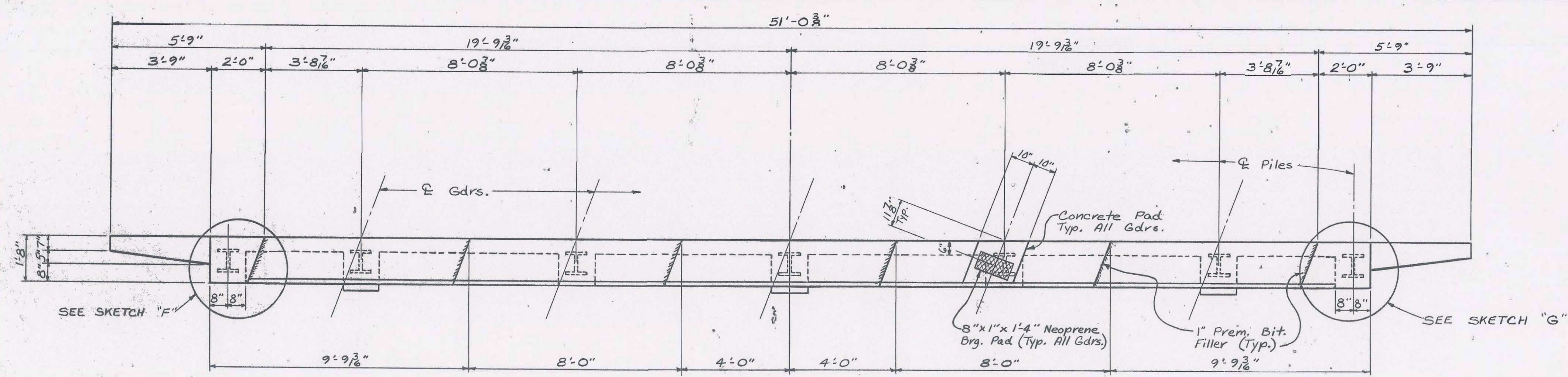
FED. RD. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	ALA.	F-214(25)	1977	74	571



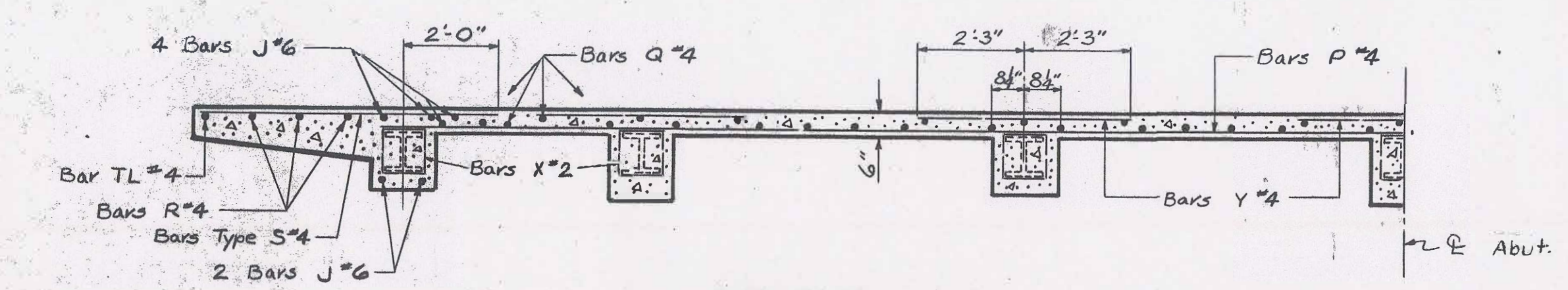
Bent 5	Bent 6	ESTIMATED QUANTITIES
75.0	71.0	Cu. Yds. Bridge Substructure Concrete Class "A"
15,100	14,350	Lbs. Steel Reinforcement

BRIDGE SHEET NO. 6 OF 8		STATE OF ALABAMA	
REVISIONS		HIGHWAY DEPARTMENT	
		PROJECT NO. RF-214(25)	
		BRIDGE OVER YELLOW LEAF CREEK	
		ON COUNTY ROAD #43 @ STA. 23+31.14-58	
		RELOCATED U.S. 280	
		SHELBY COUNTY	
RECOMMEND APPROVAL		BENT DETAILS (5 & 6)	
SECTION SUPERVISOR			
APPROVED: <i>Donald R. Lucas</i>		SCALE: As Shown	
CHIEF BRIDGE DESIGN ENGINEER		DESIGNED: CAUTHEN	
BRIDGE ENGINEER		DRAWN: A.R. CRUMLEY	
		QUANTITIES	
		Comp. ARC	
		CK. G.N.B.	
		DATE	
		Oct. 75	

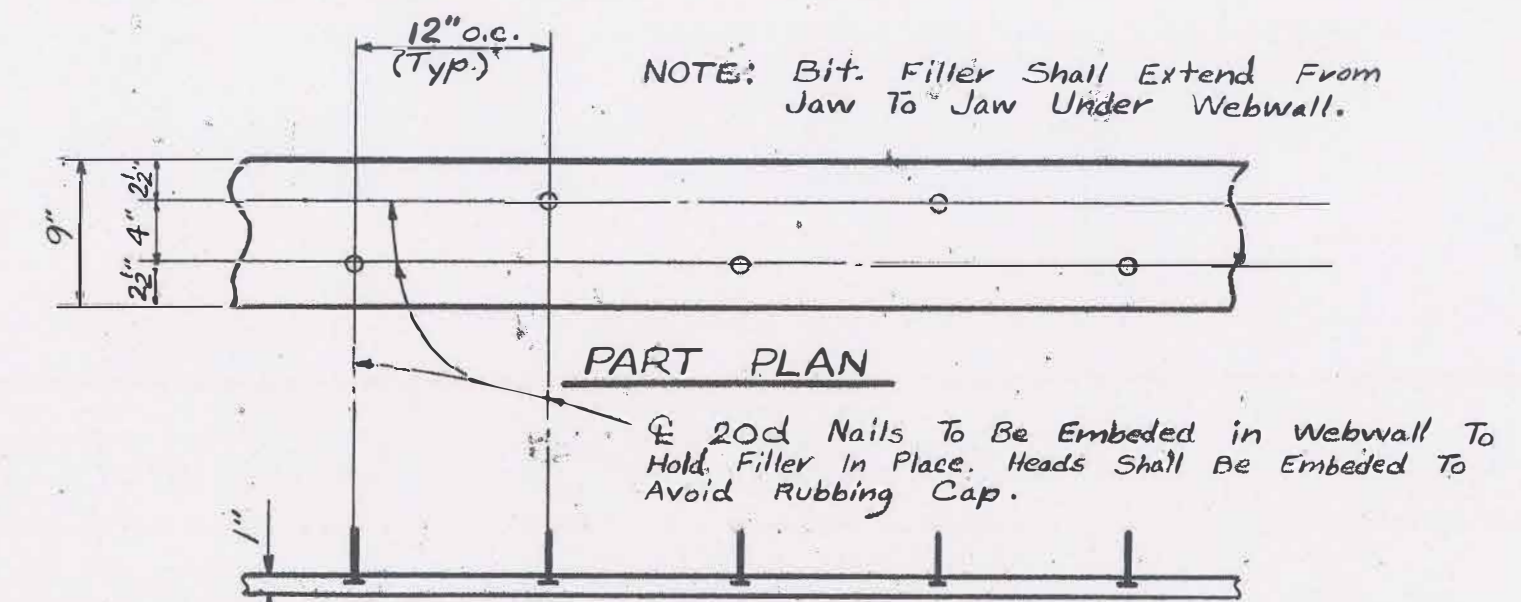
1-28-76



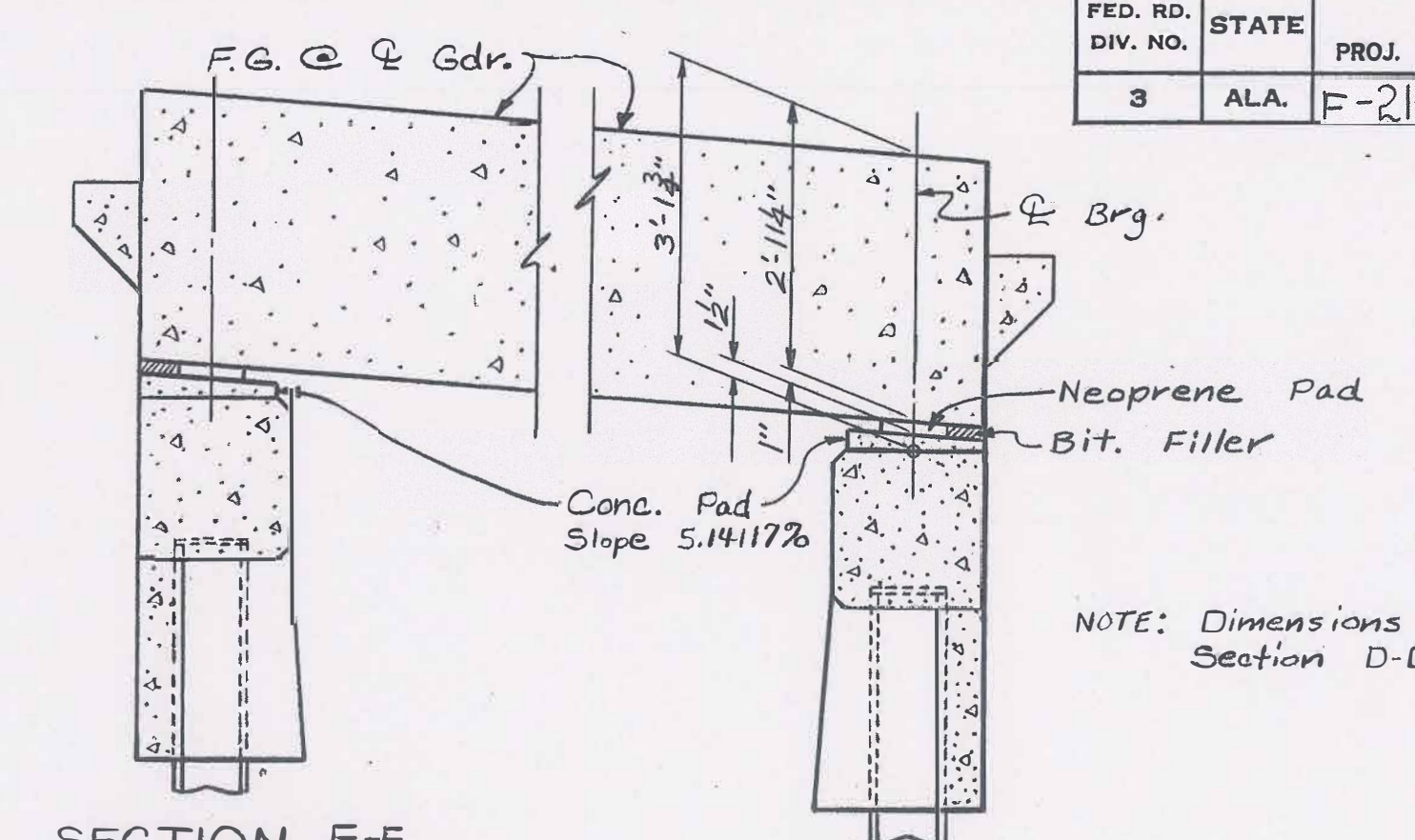
PLAN ABUTS. NO. 1 & 9
Scale: 3/8"=1'-0"



SECTION A-A
Scale: 3/8"=1'-0"



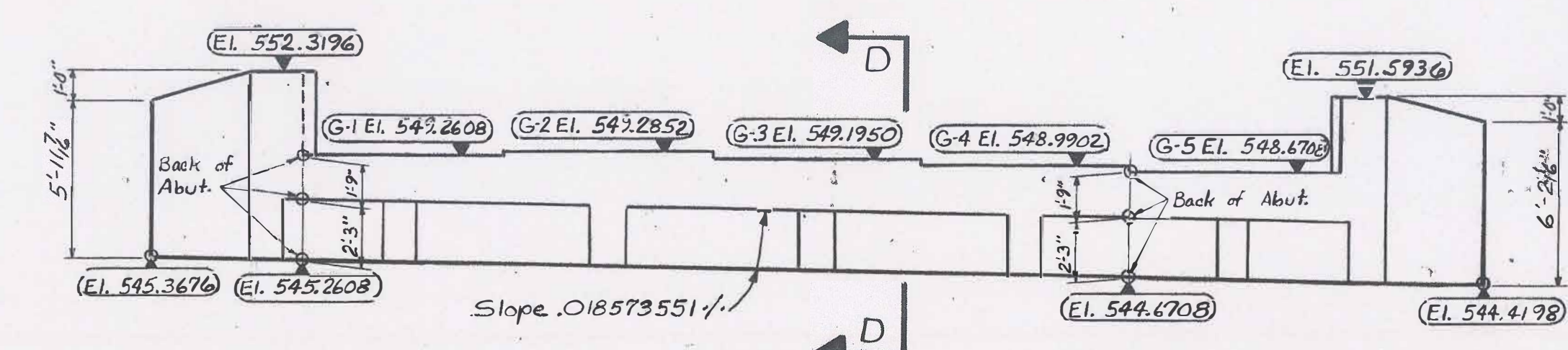
DETAILS OF PREMOLDED BIT. FILLER
Scale: 1"=1'-0"



SECTION E-E
Scale: 1/2"=1'-0"

SECTION D-D
Scale: 1/2"=1'-0"

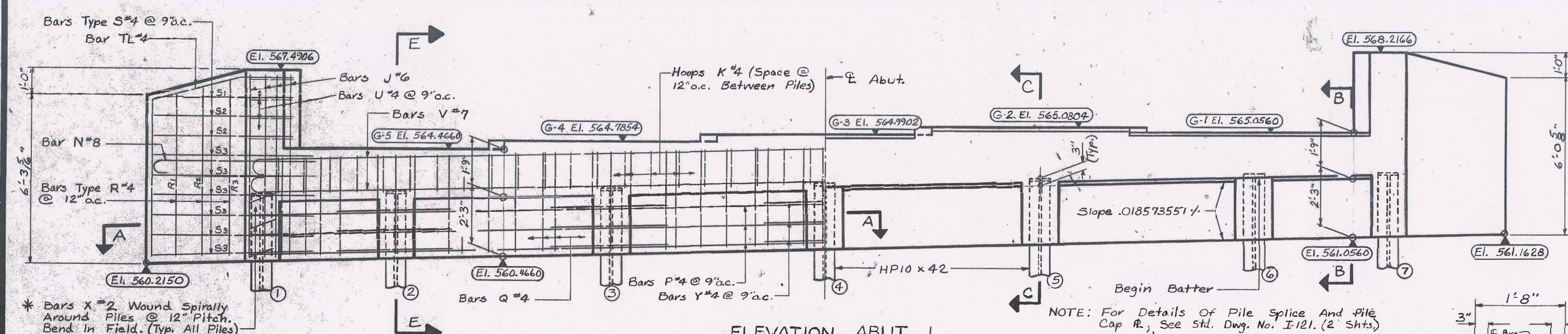
NOTE: Dimensions Same Section D-D & Section E-E



ELEVATION ABUT. 9
Scale: 1/8"=1'-0"

NOTE: For Details, Dimensions And Reinforcement, See PLAN & ELEVATION Abut. No. 1. (Reinforcement Similar)

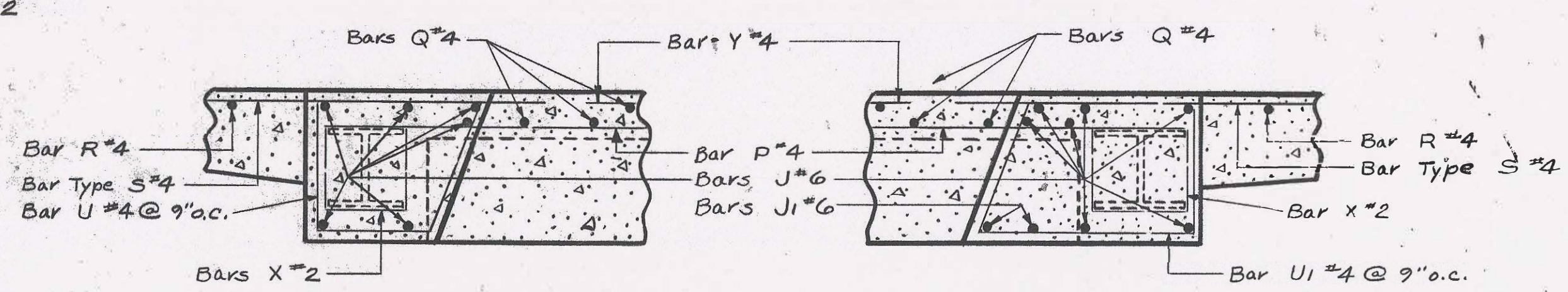
Bent 1	Bent 9	ESTIMATED QUANTITIES
9.5	9.5	Cu. Yds. Bridge Substructure Concrete Cl. "A"
1300	1300	Lbs. Reinforcing Steel
105	105	Lbs. Structural Steel



ELEVATION ABUT. 1
Scale: 3/8"=1'-0"

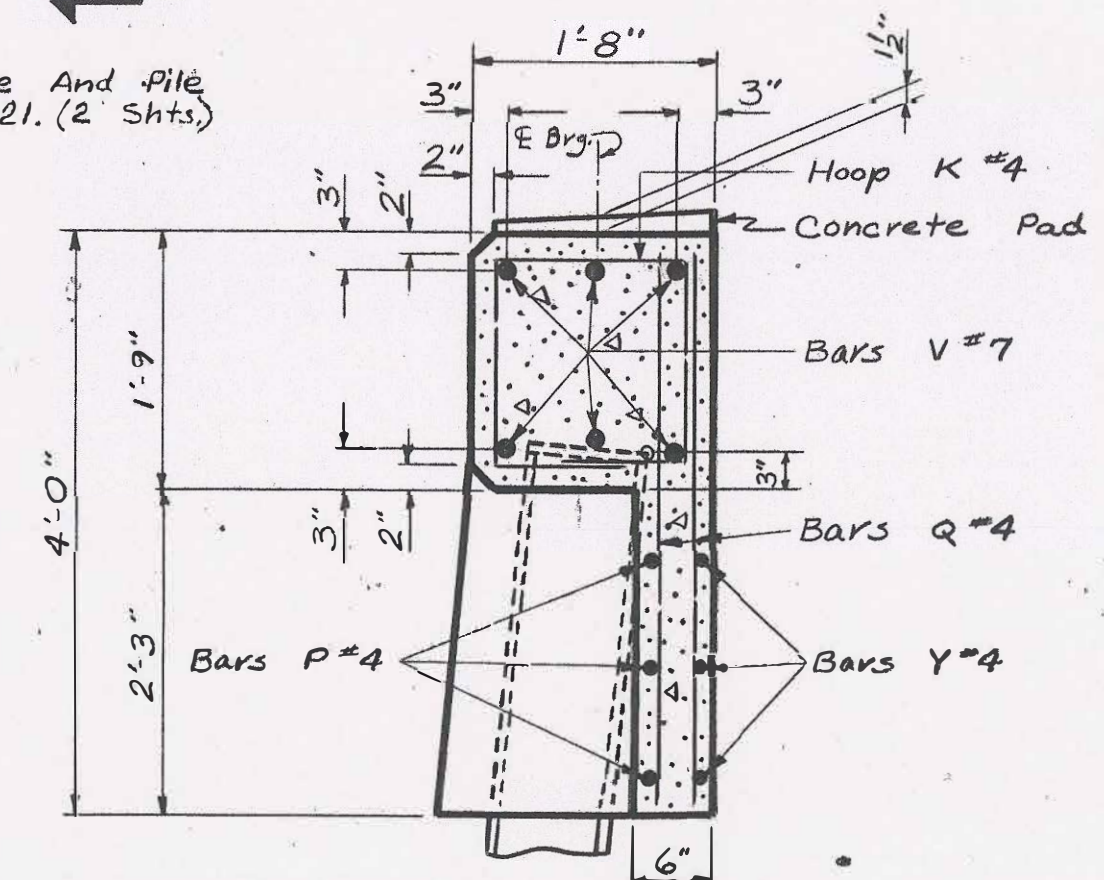
NOTE: For Details Of Pile Splice And Pile Cap R., See Std. Dwg. No. I121. (2 Shts.)

* Bars X #2 Wound Spirally Around Piles @ 12" Pitch. Bend In Field. (Typ. All Piles)
* NOTE: W4.5 Steel Wire As Per ASTM A82 (AASHTO M32 May Be Substituted For Bars X #2)

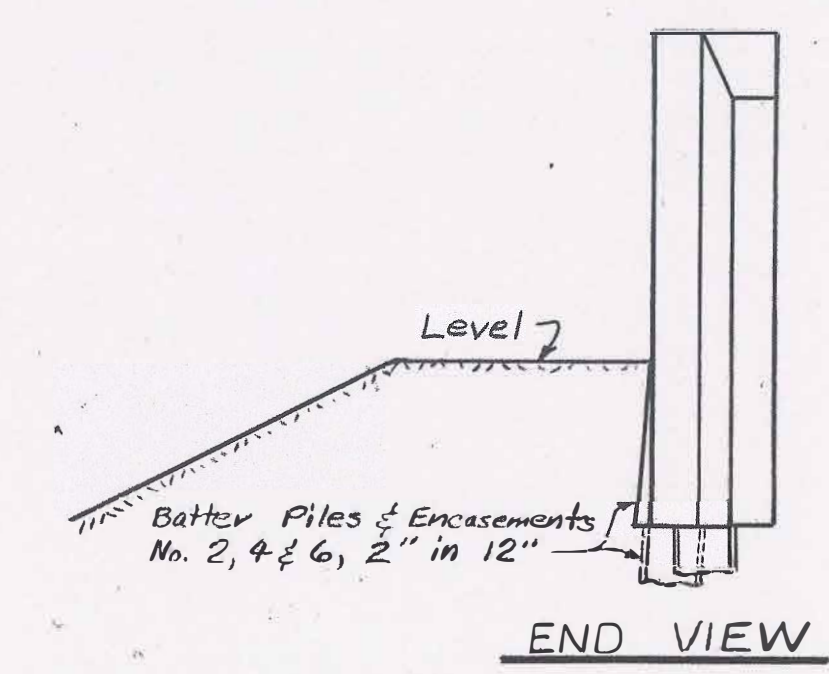


SKETCH "F"
Scale: 3/4"=1'-0"

SKETCH "G"
Scale: 3/4"=1'-0"



SECTION B-B
Scale: 3/4"=1'-0"



END VIEW

BRIDGE SHEET NO. 7 OF 8 REVISIONS		STATE OF ALABAMA HIGHWAY DEPARTMENT			
		PROJECT NO. RF-214(25)			
		BRIDGE OVER YELLOW LEAF CREEK ON COUNTY RD. #43 @ STA. 23+31.1458 RELOCATED U.S. 280 SHELBY COUNTY			
RECOMMEND APPROVAL SECTION SUPV. W. Fred Conway		ABUT. DETAILS 1 & 9			
APPROVED: Charles H. Cook BRIDGE ENGINEER		SCALE: As Shown	DESIGNED: PA-34.00 BA DRAWN: A.R. CRUMLEY TRACED: E.M.B. CHECKED: E.M.B.	QUANTITIES Comp. ARC Ck. G.N.B.	DATE Sept. 75

TEST BORING RECORD					
LOCATION: Sta. 23+31 15' Rt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
524.4	0.0				
523.2	1.2	Med moist brown silty sand clay			
521.0	3.4	Med damp brown sand clay	5.	6	Sample # 5-A
					Water Elev. 519.3
516.0	8.4	Loose wet brown sand clay			
514.1	10.3	Loose wet brown sand	10.	46	
507.0	17.4	Hard dry gray shale			

TEST BORING RECORD					
LOCATION: Sta. 23+65 15' Lt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
524.1	0.0				
523.0	1.1	Med. moist brown silty sand clay			
521.0	3.1	Med. damp brown sand clay			
					Water Elev. 518.6
516.4	7.7	Loose wet brown sand clay			
513.9	10.2	Loose wet brown sand			
508.0	16.1	Hard dry gray shale			

TEST BORING RECORD					
LOCATION: Sta. 23+99 15' Rt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
524.3	0.0				
523.1	1.2	Med. moist brown silty sand clay			
521.1	3.2	Med. damp brown sand clay	5.	7	Sample # 4-A
					Water Elev. 518.2
516.1	8.2	Loose wet brown sand clay			
514.4	9.9	Loose wet brown sand			
513.0	11.3	Hard dry gray shale			

TEST BORING RECORD					
LOCATION: Sta. 24+33 15' Lt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
524.6	0.0				
523.5	1.1	Med. moist brown silty sand clay			
521.0	3.6	Med. damp brown sand clay			
518.3	6.3	Loose damp brown sand clay			Water Elev. 518.6
514.2	10.4	Loose wet brown sand			
508.8	15.8	Hard dry gray shale			

TEST BORING RECORD					
LOCATION: Sta. 24+67 15' Rt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
524.8	0.0				
523.8	1.0	Med. moist brown silty sand clay			
521.7	3.1	Med. moist brown sand clay	5.	5	Sample # 3-A
518.0	6.8	Loose damp brown sand clay			
					Water Elev. 516.2
514.2	10.6	Loose wet brown sand	10.	49	
			15.	50	
505.3	19.5	Hard dry gray shale		3	

TEST BORING RECORD					
LOCATION: Sta. 25+38 15' Lt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
523.8	0.0				
522.8	1.0	Med. moist brown silty sand clay			
521.1	2.7	Med. damp brown sand clay			
519.3	4.5	Loose damp brown sand clay			Water Elev. 519.6
515.1	8.7	Loose wet brown sand clay			
513.0	10.8	Hard dry gray sand rock			
511.0	12.8	Hard dry gray shale, w/approx. 2" hard layer gray sand rock			
510.0	13.8	Med. damp gray shale			
509.6	14.3	Med. damp gray shale			
507.8	16.0	Med. damp gray shale			
500.2	23.6	Hard dry gray shale			

TEST BORING RECORD					
LOCATION: Sta. 25+72 15' Rt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
523.5	0.0				
522.5	1.0	Med. moist brown silty sand clay			
521.5	2.4	Med. damp brown sand clay	5.	6	Sample # 2-A
					Water Elev. 519.5
515.9	7.6	Loose wet brown sand clay			
512.1	11.4	Hard dry gray shale			

TEST BORING RECORD					
LOCATION: Sta. 26+06 11' Lt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
524.7	0.0				
523.8	0.8	Stiff moist brown silty sand clay			
521.2	3.5	Stiff moist brown sand clay			Water Elev. 520.5
518.8	5.0	Loose damp brown sand clay			
		Loose wet brown & gray sand clay			
		& small boulders			
514.6	10.0	Hard rock or large boulder			
513.5	11.4	Loose wet brown & gray sand clay			
510.9	13.8	Hard rock or large boulder			
		Rock still Cont.			

TEST BORING RECORD					
LOCATION: Sta. 26+08 11' Lt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
524.7	0.0				
523.8	0.9	Stiff moist brown silty sand clay			
521.1	3.6	Stiff moist brown sand clay			Water Elev. 520.3
516.7	8.0	Loose damp brown sand clay			
510.4	14.3	Hard dry gray shale			

TEST BORING RECORD					
LOCATION: Sta. 26+40 15' Rt. C/L					
ELEV.	DEPTH	DESCRIPTION	N	CR	REMARKS
525.0	0.0				
524.0	1.0	Stiff moist brown silty sand clay			
522.8	2.2	Stiff moist brown cherty clay	5.	7	Sample # 1-A
					Water Elev. 520.3
517.1	7.9	Loose damp brown & gray sand clay			
515.0	10.0	Med. damp brown & gray sand clay	10.	14	Sample # 1-B
513.0	12.0	Med. wet brown & gray sand clay			
510.0	15.0	Hard damp gray shale	15.	50	
507.2	17.8	Hard dry gray shale		4	

SPECIAL NOTE: SUBSURFACE INFORMATION SHOWN ON THIS DRAWING WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THIS PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED & IT IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THIS PROJECT.

N-IS PENETRATION IN BLOWS PER FOOT (ASTM D-1586)

5 CR-IS % CORE RECOVERY, NX OR AX DESIGNATES BIT SIZE (ASTM D-2113)

18 S - SYMBOLS DESCRIBED BELOW:

23 - UNDISTURBED SAMPLE (ASTM D-1587)

EX - WATER TABLE, TIME OF BORING

EX - WATER TABLE, 24 HOUR READING

EX - LOSS OF DRILLING FLUID

BRIDGE SHEET NO. 8 OF 8		STATE OF ALABAMA HIGHWAY DEPARTMENT	
REVISIONS		PROJECT NO. RF-214(25) BRIDGE OVER YELLOW LEAF CREEK ON COUNTY RD. #43 @ STA. 23+31.1458 RELOCATED U.S. 280 SHELBY COUNTY	
RECOMMEND APPROVAL SECTION SUPERVISOR <i>W. Fred Conway</i>		TEST BORING RECORD	
APPROVED: <i>Donald R. Fries</i> CHIEF BRIDGE DESIGN ENGINEER	SCALE:	DESIGNED: DRAWN: A. R. CRUMLEY TRACED: CHECKED: <i>ENTB</i>	QUANTITIES DATE Oct. 75