

FED. DIST. NO.	STATE	U.S.R.W. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	166-B	1934	1	15

ARKANSAS JOB No. 3217

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

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15	Details of Proj. Markers, Bridge Name Plates and R.O.W. Markers	2386

PLAN OF PROPOSED BRIDGE
OVER
LITTLE RIVER

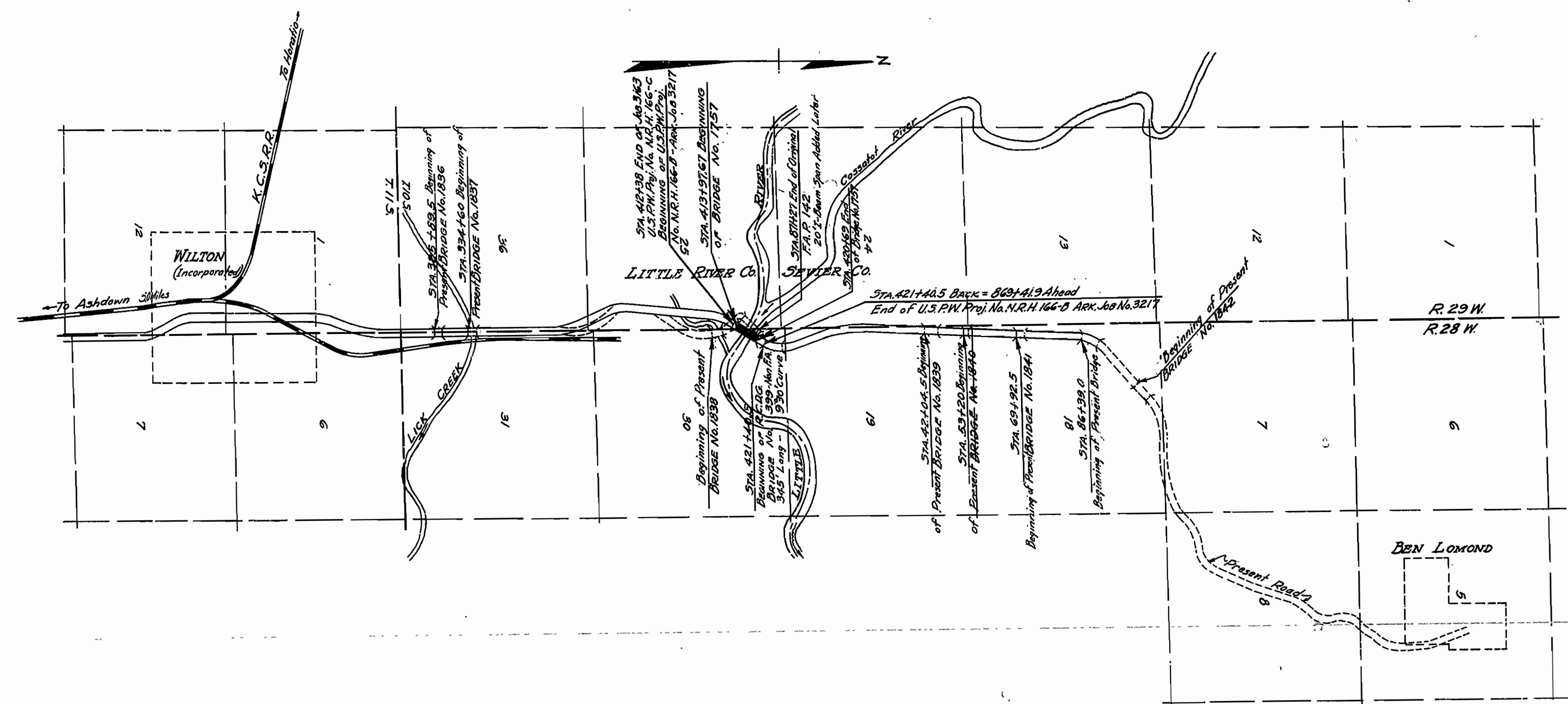
LITTLE RIVER AND SEVIER COUNTIES

ROUTE 71 SEC. 4 & 5

JOB No. 3217

U.S. PUBLIC WORKS PROJECT NO. N.R.H. 166-B

ITEM No.	ITEM	QUANTITY	UNIT
12	Common Excavation	4379	Cu. Yds.
13	Dry Excav. for Structures	815	Cu. Yds.
13	Wet Excav. for Structures	2710	Cu. Yds.
91	Class "A" Concrete for Bridges	1236.0	Cu. Yds.
91	Class "B" Concrete for Bridges	488.5	Cu. Yds.
92	Reinforcing Steel for Bridges	21310	Lbs.
94	Concrete Railing for Bridges	54	Lin. Ft.
95	Rip-Rap	445	Cu. Yds.
96	Structural Steel in Truss Spans	741.590	Lbs.
98	Untreated Timber Piling	1344	Lin. Ft.
3.P	Bronze Stake Bridge Name Plates	2	Each
3.P	Bronze Project Marker Plates	2	Each
3.P	Machined Bearing Devices	13680	Lbs.
3.P	Removal of Existing Structures and Maintaining Traffic	Lump Sum Complete	\$



Specifications approved by Chief, Bureau of Public Roads, September 28, 1925, and adopted by State Highway Commission May 30, 1925 with revisions and Special Provisions as follows:

REVISIONS			
Pamphlet A	Revised	March 1, 1931	Approved June 13, 1931
"	L	Feb. 10, 1933	
"	M	March 1, 1931	Approved June 13, 1931
"	N	Oct. 1, 1933	
"	O	Oct. 1, 1933	
"	P	Oct. 1, 1933	

SPECIAL PROVISIONS		
Item	No.	Of Sheets
Subletting, Labor and M.R. Aids Compliance	13	
Beginning and Prosecution of Work	1	
Engineer's Field Office	1	8-23-33
Bronze Proj. Marker Plates & Stake Bridge Name Plates	1	8-10-33
Machined Bearing Devices	1	5-21-34
Removal of Existing Structures and Maintaining Traffic	2	5-16-34

LAYOUT
Scale: 1" = 2000'

LENGTH OF PROJECT	=	902.50 FT. OR	0.170 MILES
LENGTH OF BRIDGES	=	671.33 "	0.127 "
LENGTH OF EMBANKMENT	=	231.17 "	0.043 "
LENGTH OF JOB	=	902.50 "	0.170 "

APPROVED
CHIEF ENGINEER - U. S. BUREAU OF PUBLIC ROADS

APPROVED
DISTRICT ENGINEER - U. S. BUREAU OF PUBLIC ROADS

APPROVED
CHIEF - U. S. BUREAU OF PUBLIC ROADS

APPROVED
CHAIRMAN - STATE HIGHWAY COMMISSION

APPROVED
STATE HIGHWAY ENGINEER

N.B. Sawyer
BRIDGE ENGINEER

BRIDGE No. 1757

DRAWING No. 3803

FED. ROAD DIST. NO.	STATE	U.S. P.W. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	166-B	1934	2	15

ARKANSAS Job No. 3217

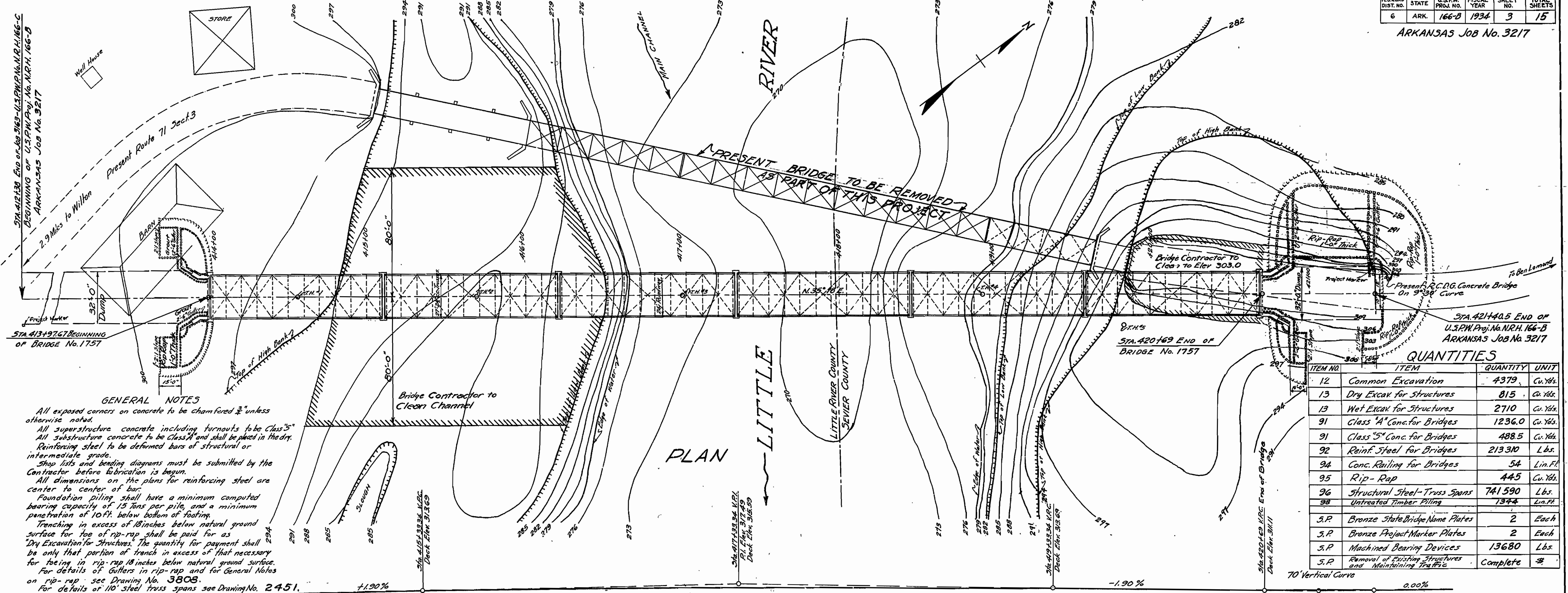
SCHEDULE OF QUANTITIES - BRIDGE No. 1757 - ARK. JOB No. 3217 - U.S.P.W. PROJ. No. N.R.H. 166-B

PART OF BRIDGE	No. 12 COMMON EXCAVATION Cu. Yds.	No. 13 DRY EXCAVATION FOR STRUCTURES Cu. Yds.	No. 13 WET EXCAVATION FOR STRUCTURES Cu. Yds.	No. 91 CLASS "A" CONCRETE FOR BRIDGES Cu. Yds.	No. 91 CLASS "S" CONCRETE FOR BRIDGES Cu. Yds.	No. 92 REINFORCING STEEL FOR BRIDGES LBS.	No. 94 CONCRETE RAILING FOR BRIDGES LIN. FT.	No. 95 RIP-RAP Cu. Yds.	No. 96 STRUCTURAL STEEL IN TRUSS SPANS LBS.	No. 98 UNTREATED TIMBER PILING LIN. FT.	S.P. BRONZE STATE BRIDGE NAME PLATES EACH	S.P. BRONZE PROJ. MARKER PLATES EACH	S.P. MACHINED BEARING DEVICES LBS.	S.P. REMOVAL OF EXISTING STRUCTURE AND MAINTAINING TRAFFIC LUMP SUM
EARTH EMBANKMENT SOUTH APPROACH	3715	43	-	0.13		15		86				1		
ABUTMENT No. 1		90	458	188.2		23900	27			672	1			
PIER No. 1		87	286	155.7		10610			250					
PIER No. 2		87	283	150.1		10860			250					
PIER No. 3		-	293	193.9		14920			340					
PIER No. 4		-	340	193.9		14920			340					
PIER No. 5		253	286	155.7		10610			250					
ABUTMENT No. 2		90	764	188.2		23900	27			672	1			
6-110'-0" STEEL TRUSS SPANS		-			488.5	103560			740160				13680	
EARTH EMBANKMENT NORTH APPROACH	664	165		0.13		15		359				1		
GRAND TOTALS	4379	815	2710	(1235.96) 1236.0	488.5	213310	54	445	741590	1344	2	2	13680	COMPLETE

SCHEDULE OF QUANTITIES
 BRIDGE OVER LITTLE RIVER
 AT WILTON, ARK.
 ROUTE 71 SEC. 4 & 5
 LITTLE RIVER AND SEVIER COUNTIES
 JOB NO. 3217
 ARKANSAS STATE HIGHWAY COMMISSION
 LITTLE ROCK, ARK.

M. B. Lanier
 BRIDGE ENGINEER

Drawn By: *MBL* Date: 5-19-34
 Traced By: *ELH* Date: 5-19-34
 Checked By: *ELH* Date: 5-19-34
 BRIDGE No. 1757 DRAWING No. 3804



GENERAL NOTES

All exposed corners on concrete to be chamfered $\frac{3}{8}$ " unless otherwise noted.

All superstructure concrete including turnouts to be Class "3".

All substructure concrete to be Class "A" and shall be placed in the dry.

Reinforcing steel to be deformed bars of structural or intermediate grade.

Shop lists and bending diagrams must be submitted by the Contractor before fabrication is begun.

All dimensions on the plans for reinforcing steel are center to center of bar.

Foundation piling shall have a minimum computed bearing capacity of 15 tons per pile, and a minimum penetration of 10 ft. below bottom of footing.

Trenching in excess of 18 inches below natural ground surface for top of rip-rap shall be paid for as "Dry Excavation for Structures". The quantity for payment shall be only that portion of trench in excess of that necessary for toeing in rip-rap 18 inches below natural ground surface.

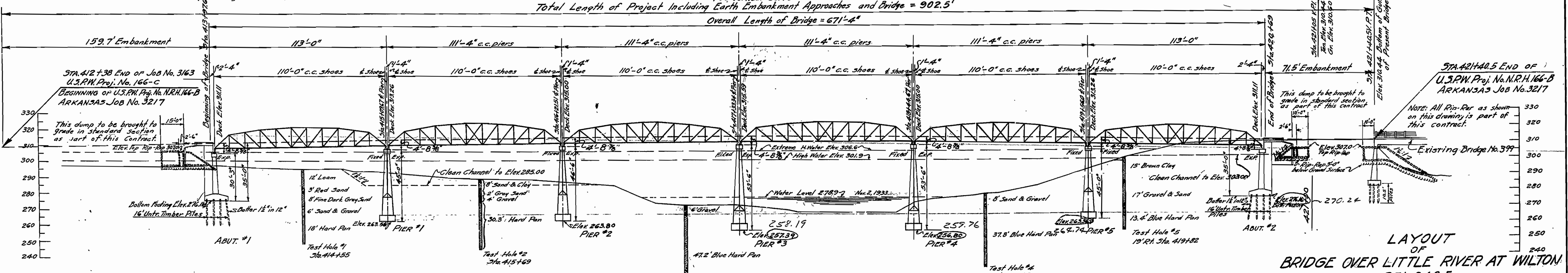
For details of gutters in rip-rap and for General Notes on rip-rap see Drawing No. 3808.

For details of 110' steel truss spans see Drawing No. 2451.

For details of substructure see Drawing Nos. 3806-3807-3808.

QUANTITIES

ITEM NO.	ITEM	QUANTITY	UNIT
12	Common Excavation	4379	Cu. Yds.
13	Dry Excav. for Structures	815	Cu. Yds.
13	Wet Excav. for Structures	2710	Cu. Yds.
91	Class "A" Conc. for Bridges	1236.0	Cu. Yds.
91	Class "3" Conc. for Bridges	488.5	Cu. Yds.
92	Reinf. Steel for Bridges	21330	Lbs.
94	Conc. Railing for Bridges	54	Lin. Ft.
95	Rip-Rap	445	Cu. Yds.
96	Structural Steel-Truss Spans	741590	Lbs.
98	Untreated Timber Piling	1344	Lin. Ft.
5.P	Bronze State Bridge Name Plates	2	Each
5.P	Bronze Project Marker Plates	2	Each
5.P	Machined Bearing Devices	13680	Lbs.
5.P	Removal of Existing Structures and Maintaining Traffic	Complete	#



NOTE:

Max. Design Bearing Pressure:

Piers 1, 2 & 5 = 3 Tons per sq. ft.

Piers 3 & 4 = 3.2 Tons per sq. ft.

Max. Design Pile Load: Abts 1 & 2 = 15 Tons.

Pile lengths shown are for estimating quantities only.

Actual lengths are to be determined in the field.

ELEVATION

LAYOUT OF BRIDGE OVER LITTLE RIVER AT WILTON

R. 71-34&5

LITTLE RIVER IN SEVIER COUNTIES

JOB NO. 3217

ARKANSAS HIGHWAY COMMISSION

LITTLE ROCK, ARKANSAS

Drawn By: R.E.H. Date: 4-10-34

Traced By: S.B.G. Date: 4-18-34

Checked By: R.E.H. Date: 5-10-34

Scale: 1" = 30'

R.E.H.
BRIDGE ENGINEER

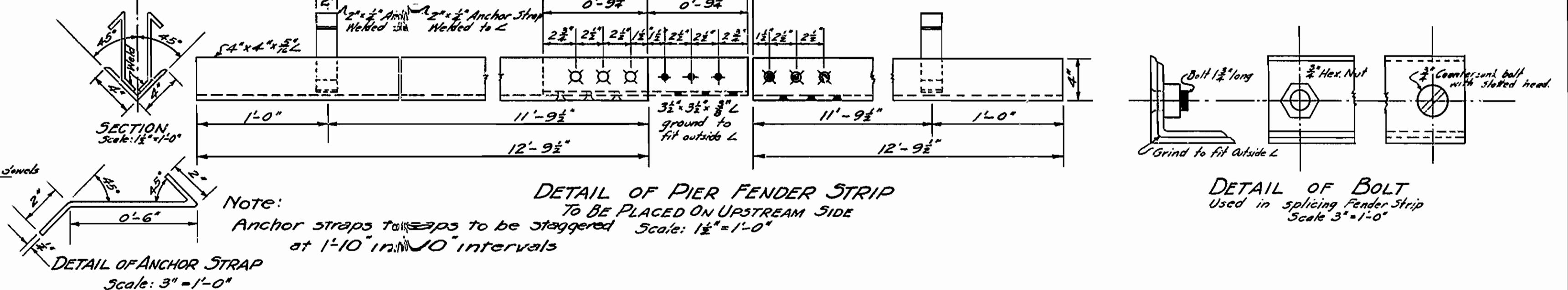
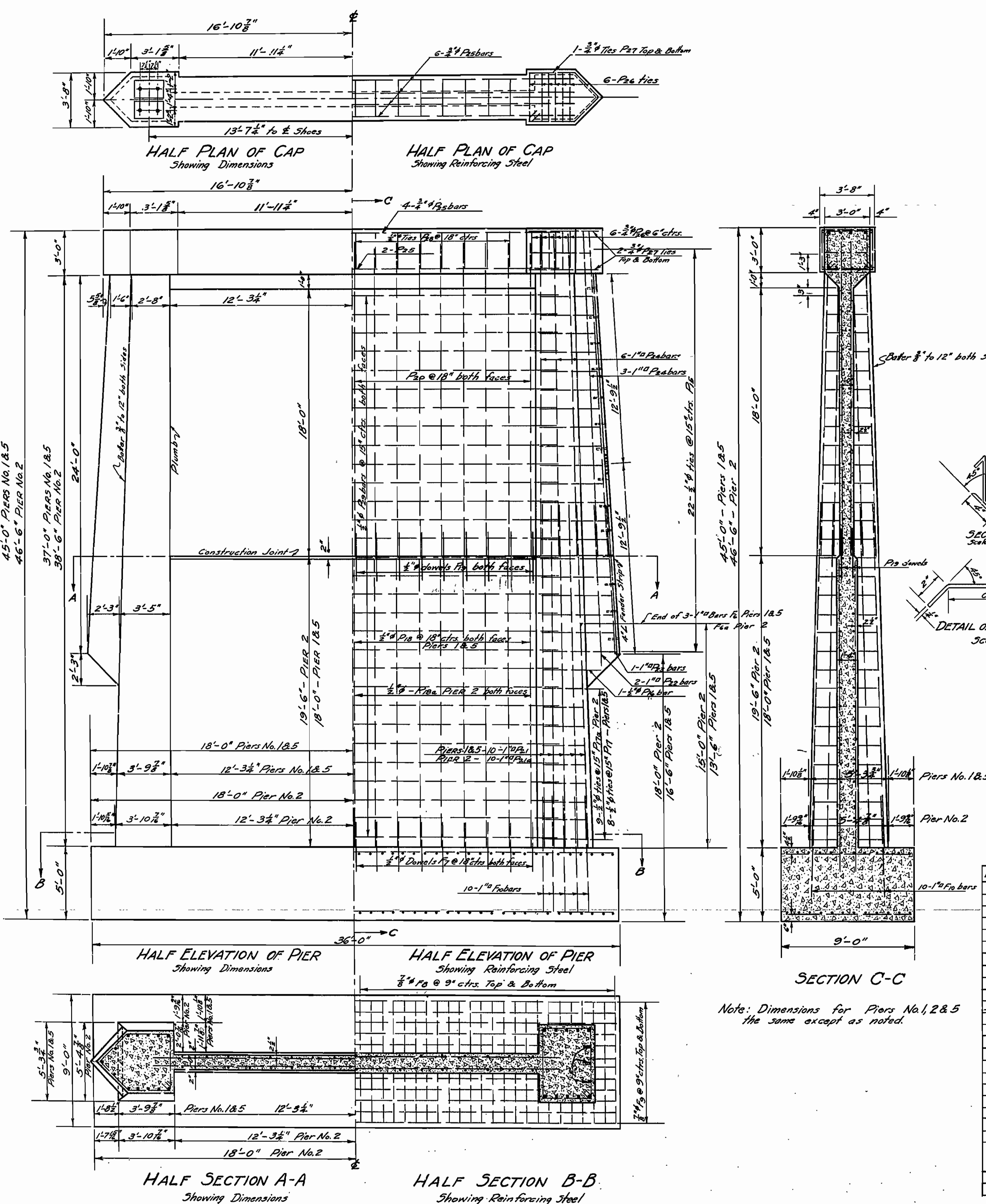
BRIDGE No. 1757 DRAWING No. 3805

PER. ROAD DIST. NO.	STATE	U.S.P.W. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	WCH 166	1934	5	15

Job No. 3217

BAR LIST FOR PIERS 1 AND 5

MARK	SIZE	NO. PCS.	LEN. S.	LENGTH	BENDING DIAGRAM	TOT. LENGTH	WEIGHT
F6	1"Ø	6		16'-10"	Straight Bars	101'-0"	
F10	"	20		6'-8"	"	133'-4"	
F21	"	20		21'-4"	"	426'-6"	
F22	"	4		11'-4"	"	45'-4"	
F23	"	2		10'-4"	"	20'-8"	
F24	"	18		21'-9"	"	391'-6"	
Total for 1"Ø for 1"Ø Reinforcing Steel Bars						1118'-6"	3,803.
F6	¾"Ø	96		6'-6"	Straight Bars	616'-0"	
F7	"	24		35'-6"	"	852'-0"	
Total for ¾"Ø for ¾"Ø Reinforcing Steel Bars						1668'-0"	3,410
F20	¾"Ø	6		30'-0"	Straight Bars	180'-0"	
F26	"	12		12'-8"	"	152'-0"	
F21	"	4		10'-3"	"	41'-0"	
Totals for ¾"Ø for ¾"Ø Reinforcing Steel Bars						373'-0"	561
F7	½"Ø	34		3'-4"	Straight Bars	113'-4"	
P19	"	34		3'-4"	"	113'-4"	
P20	"	58		27'-2"	"	1575'-8"	
P18	"	34		17'-9"	"	603'-6"	
F20	"	34		20'-8"	"	702'-8"	
P20	"	17		11'-4"	"	192'-8"	
P15	"	44		14'-5"	"	634'-4"	
P16	"	2		16'-7"	"	33'-2"	
P17	"	16		16'-8"	"	266'-8"	
Total for ½"Ø for ½"Ø Reinforcing Steel Bars						4245'-4"	2,836
Total Rebar Reinforcing Steel in Pier No. 1						10,610	
Total Rebar Reinforcing Steel in Pier No. 5						10,610	



SUMMARY OF QUANTITIES

	DRY EXCAV. FOR STRUCTURES CU.YDS.	WET EXCAV. FOR STRUCTURES CU.YDS.	CLASS 3" CONCRETE CU.YDS.	REINFORCING STEEL LBS.	STRUCTURAL STEEL LBS.
PIER-1	87	286	155.7	10,610	340
PIER-2	87	283	160.1	10,860	340
PIER-5	253	286	155.7	10,610	340
TOTAL	427	855	471.5	32,080	1020

BAR LIST FOR PIER No. 2

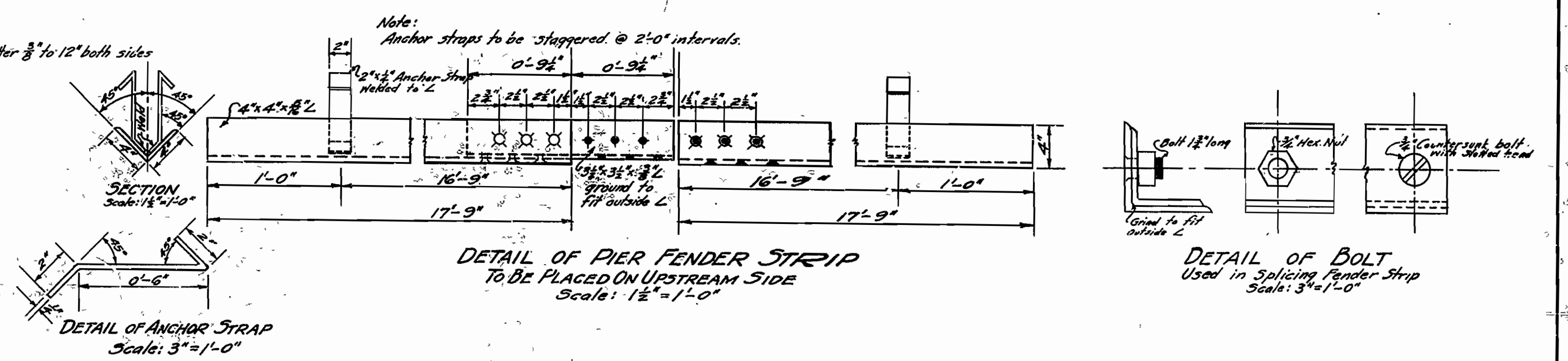
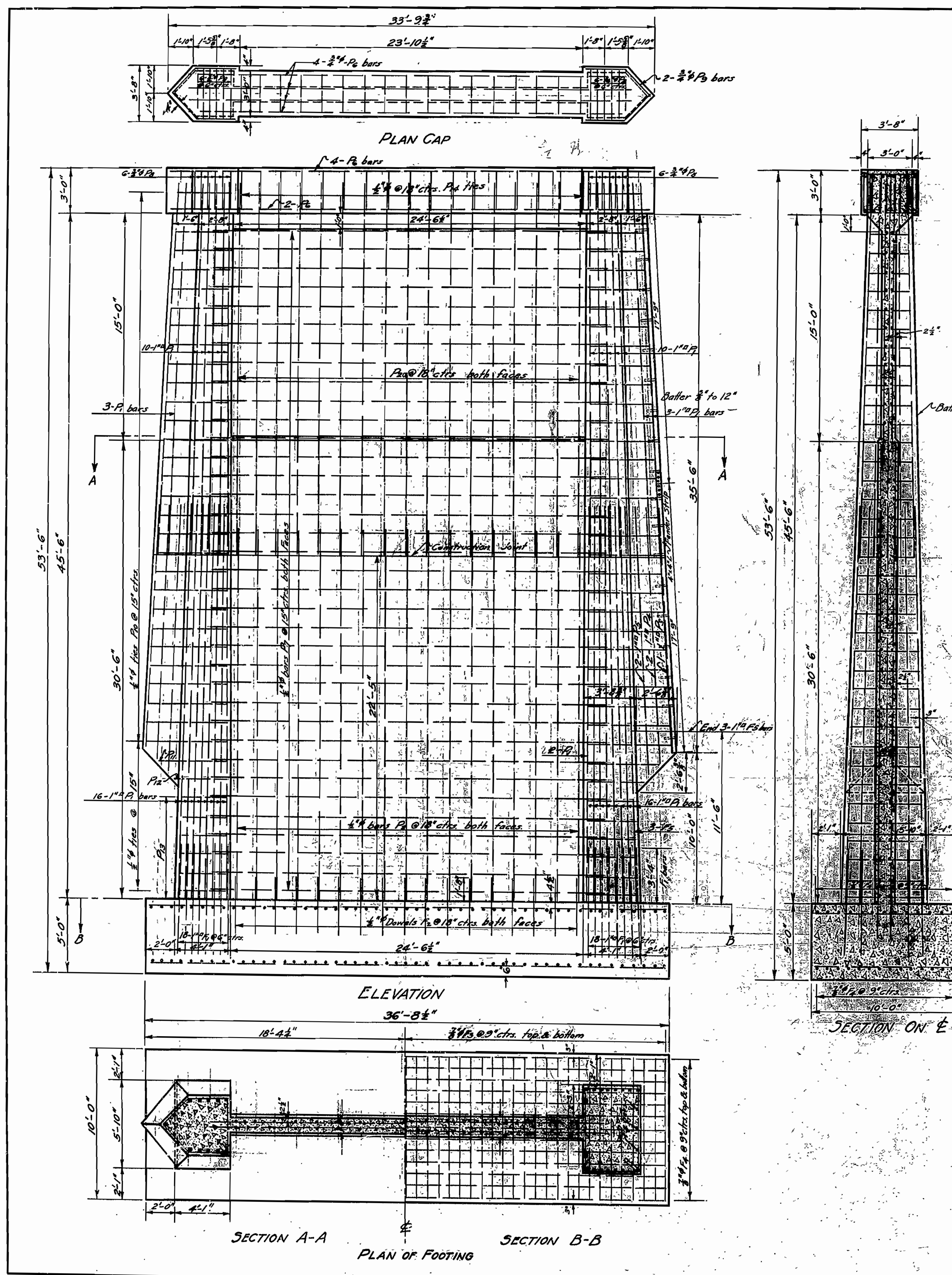
MARK	SIZE	NO. PCS.	LEN. S.	LENGTH	BENDING DIAGRAM	TOT. LENGTH	WEIGHT
F6	1"Ø	6		18'-4"	Straight Bars	110'-0"	
F10	"	20		6'-8"	"	133'-4"	
F18	"	20		22'-10"	"	456'-0"	
P22	"	4		11'-4"	"	45'-4"	
F23	"	2		10'-4"	"	20'-8"	
F24	"	18		21'-9"	"	391'-6"	
Total for 1"Ø for 1"Ø Reinforcing Steel Bars						1157'-6"	3,936
F6	¾"Ø	96		6'-6"	Straight Bars	616'-0"	
F7	"	24		35'-6"	"	852'-0"	
Total for ¾"Ø for ¾"Ø Reinforcing Steel Bars						1668'-0"	3,410
F20	¾"Ø	6		30'-0"	Straight Bars	180'-0"	
F26	"	12		12'-8"	"	152'-0"	
P21	"	4		10'-3"	"	41'-0"	
Total for ¾"Ø for ¾"Ø Reinforcing Steel Bars						373'-0"	560
F7	½"Ø	34		3'-4"	Straight Bars	113'-4"	
P19	"	34		3'-4"	"	113'-4"	
P20	"	34		20'-8"	"	702'-8"	
P20	"	17		11'-4"	"	192'-8"	
P21	"	60		27'-2"	"	1630'-0"	
P18	"	34		19'-5"	"	654'-6"	
P15	"	44		14'-5"	"	634'-4"	
P16	"	2		16'-7"	"	33'-2"	
P17	"	16		16'-8"	"	303'-0"	
Total for ½"Ø for ½"Ø Reinforcing Steel Bars						4,377'-0"	2,924
Total Reinforcing Steel in Pier No. 2						10,830	

DETAIL OF PIERS NO. 1, 2 & 5
FOR
BRIDGE OVER LITTLE RIVER AT WILTON
R. 71-34 & 5
LITTLE RIVER AND SEVIER COUNTIES
JOB NO. 3217
ARKANSAS HIGHWAY COMMISSION
LITTLE ROCK, ARKANSAS

Drawn By: Dean Swift Date: 4-20-34
Traced By: R.E.H. Date: 4-30-34
Checked By: R.E.H. Date: 5-9-34
Scale: 1/4" = 1'-0"
BRIDGE No. 1757 DRAWING No. 3806

FED. ROAD DIST. NO.	STATE	U.S.P.N. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	NR1166	1934	6	15

Job No. 3217



NOTE: Pier Fender Strip to be painted one shop coat and two field coats of paint the same as specified for Truss Spans.
All concrete in piers is Class "A".

MARK	SIZE	NO. PCS.	LENGTH	BENDING DIAGRAM	TOT. LENGTH	WEIGHT
F1	7" E	36	6'-8"	Straight Bars	240'-0"	
F2	"	6	14'-10"	"	89'-0"	
F3	"	62	25'-9"	"	1596'-6"	
F4	"	2	15'-9"	"	31'-6"	
F5	"	4	15'-6"	"	66'-0"	
F6	"	4	17'-3"	"	69'-0"	
Totals for 1" dia Reinforcing Bars					2072'-0"	7,113
F7	3/4" E	98	9'-6"	Straight Bars	931'-0"	
F8	"	26	36'-2"	"	940'-4"	
Totals for 3/4" dia Reinforcing Bars					1871'-4"	3826
P1	3/8" E	6	30'-0"	Straight Bars	180'-0"	
P2	"	12	12'-8"		152'-0"	
P3	"	4	10'-3"		41'-0"	
Totals for 3/8" dia Reinforcing Bars					373'-0"	561
F9	1/2" E	34	3'-4"	Straight Bars	113'-4"	
F10	"	34	24'-1"	"	818'-10"	
F11	"	34	24'-1"		818'-10"	
F12	"	72	27'-2"		1956'-0"	
F13	"	60	15'-6"		936'-0"	
F14	"	2	18'-2 1/2"		36'-5"	
F15	"	2	17'-9 1/2"		35'-7"	
F16	"	17	11'-4"		172'-8"	
F17	"	12	18'-0 1/2"		216'-6"	
Totals for 1/2" dia Reinforcing Bars					5118'-2"	3920
Total Reinforcing Steel in Pier No. 3					14,920	
Total Reinforcing Steel in Pier No. 4					14,920	

SUMMARY OF QUANTITIES

	DRY EXCAV FOR STRUCTURES CU.YDS	WET EXCAV FOR STRUCTURES CU.YDS	CLASS "A" CONCRETE CU.YDS	REINFORCING STEEL LBS	STRUCTURAL STEEL LBS
PIER-3		293	193.9	14,920	340
PIER-4		340	193.9	14,920	340
TOTAL		633	387.8	29,840	680

DETAIL OF PIERS NO. 3 & 4 FOR BRIDGE OVER LITTLE RIVER AT WILTON R. 71-34&5 LITTLE RIVER AND SEVIER COUNTIES JOB NO 3217 ARKANSAS HIGHWAY COMMISSION LITTLE ROCK, ARKANSAS

Drawn By: Dean Smith Date: 4-10-34
Traced By: R.E.H. Date: 4-24-34
Checked By: R.E.H. Date: 5-10-34

Scale: 1/4" = 1'-0"

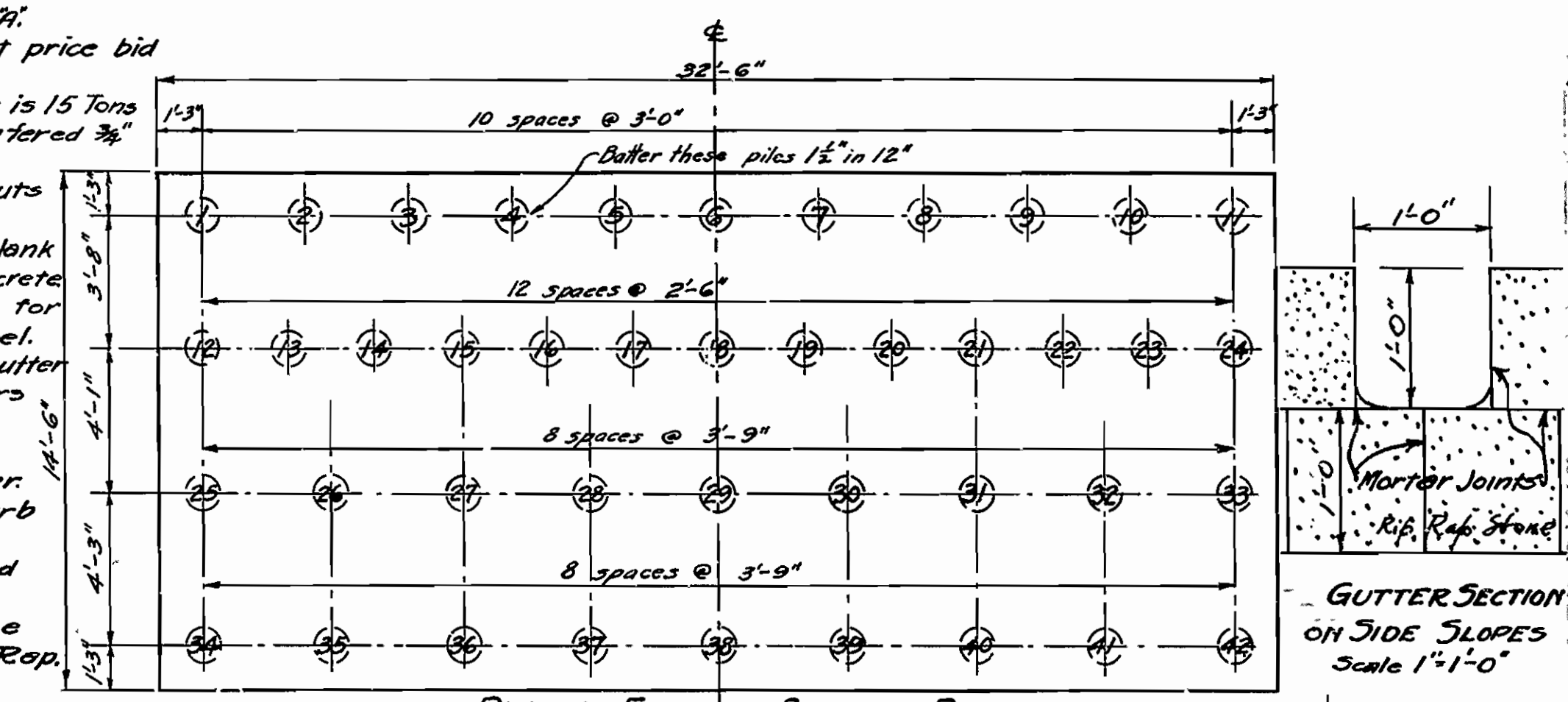
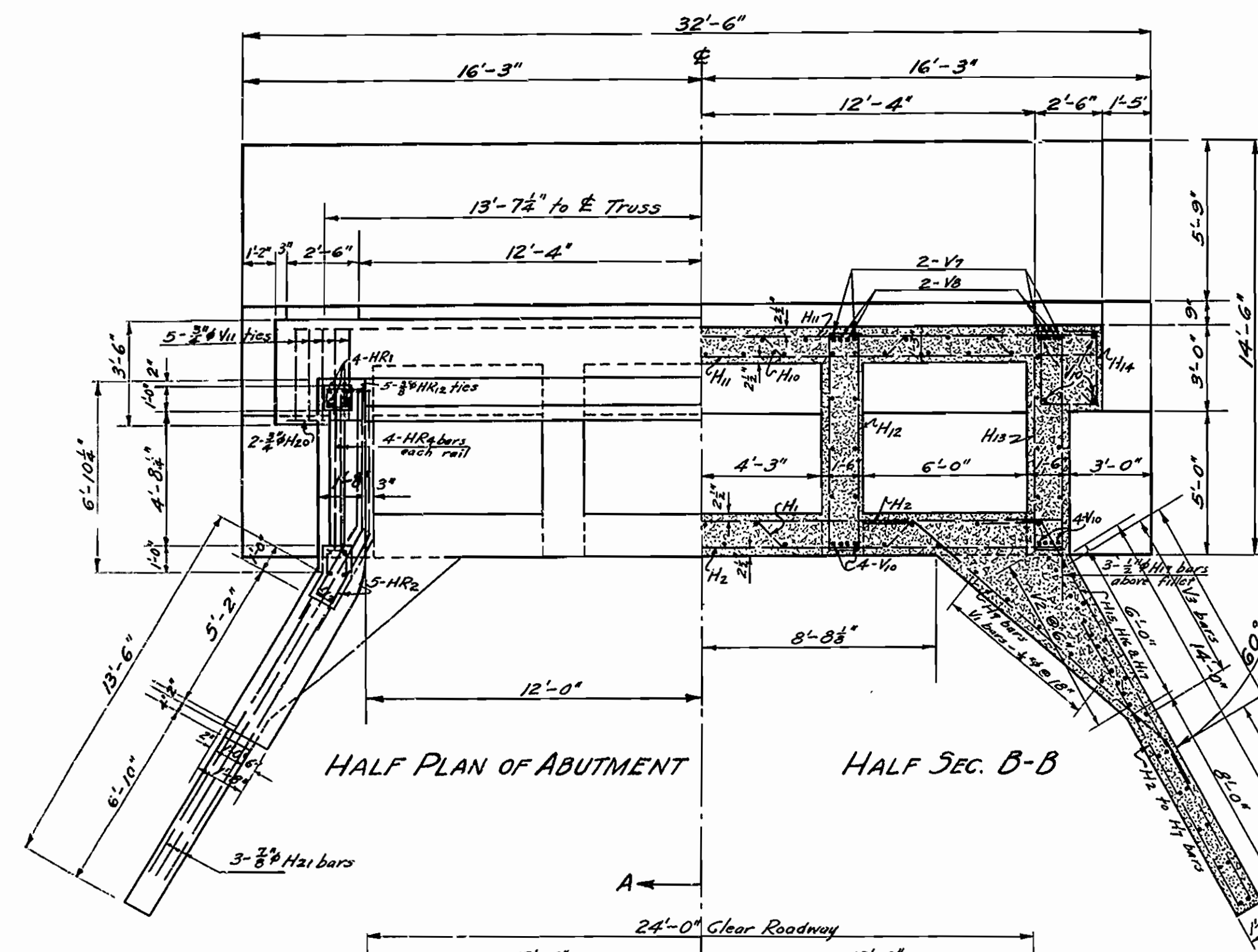
BRIDGE No. 1757 DRAWING No. 3807

N.B. Lewis
BRIDGE ENGINEER

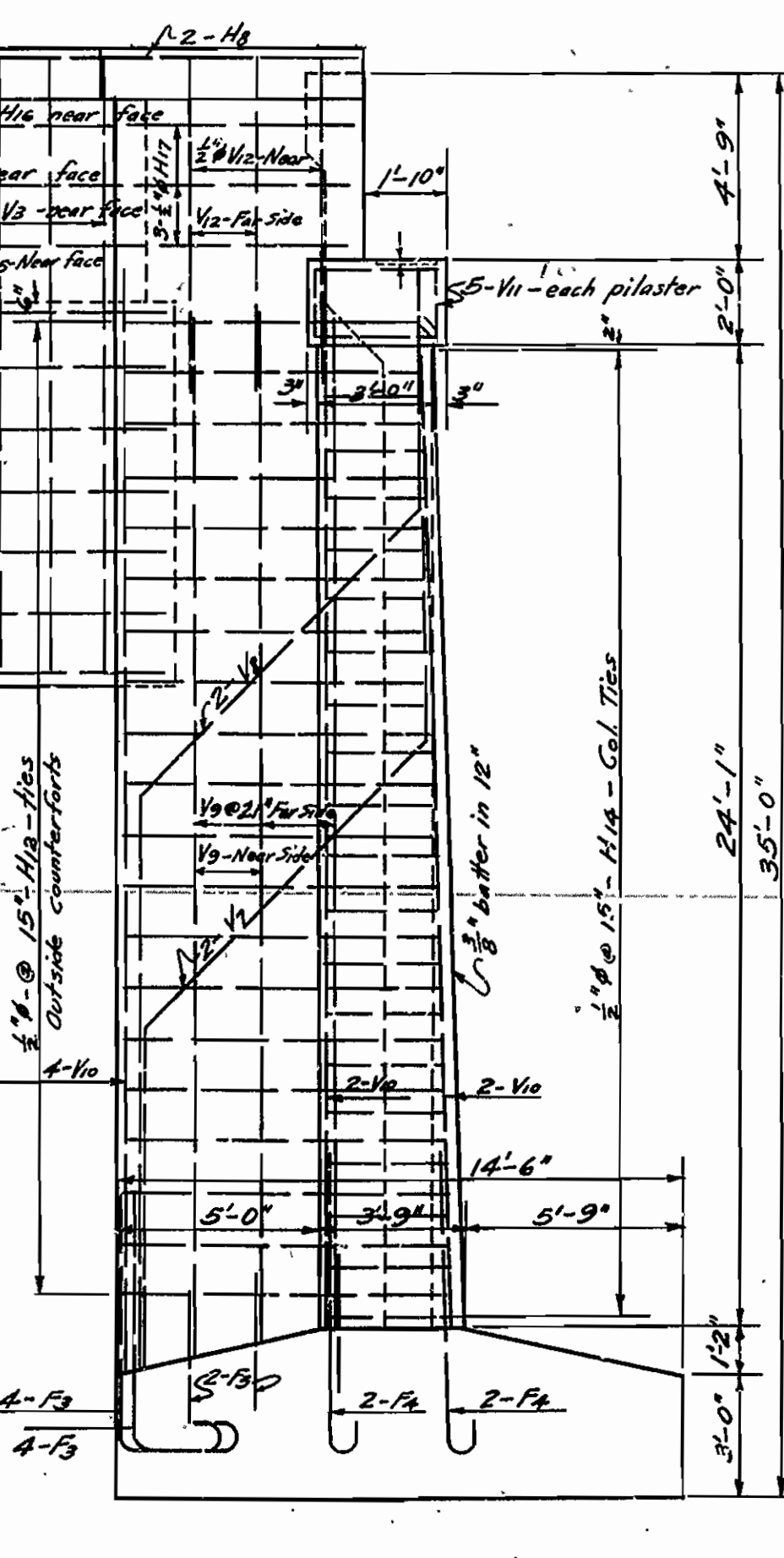
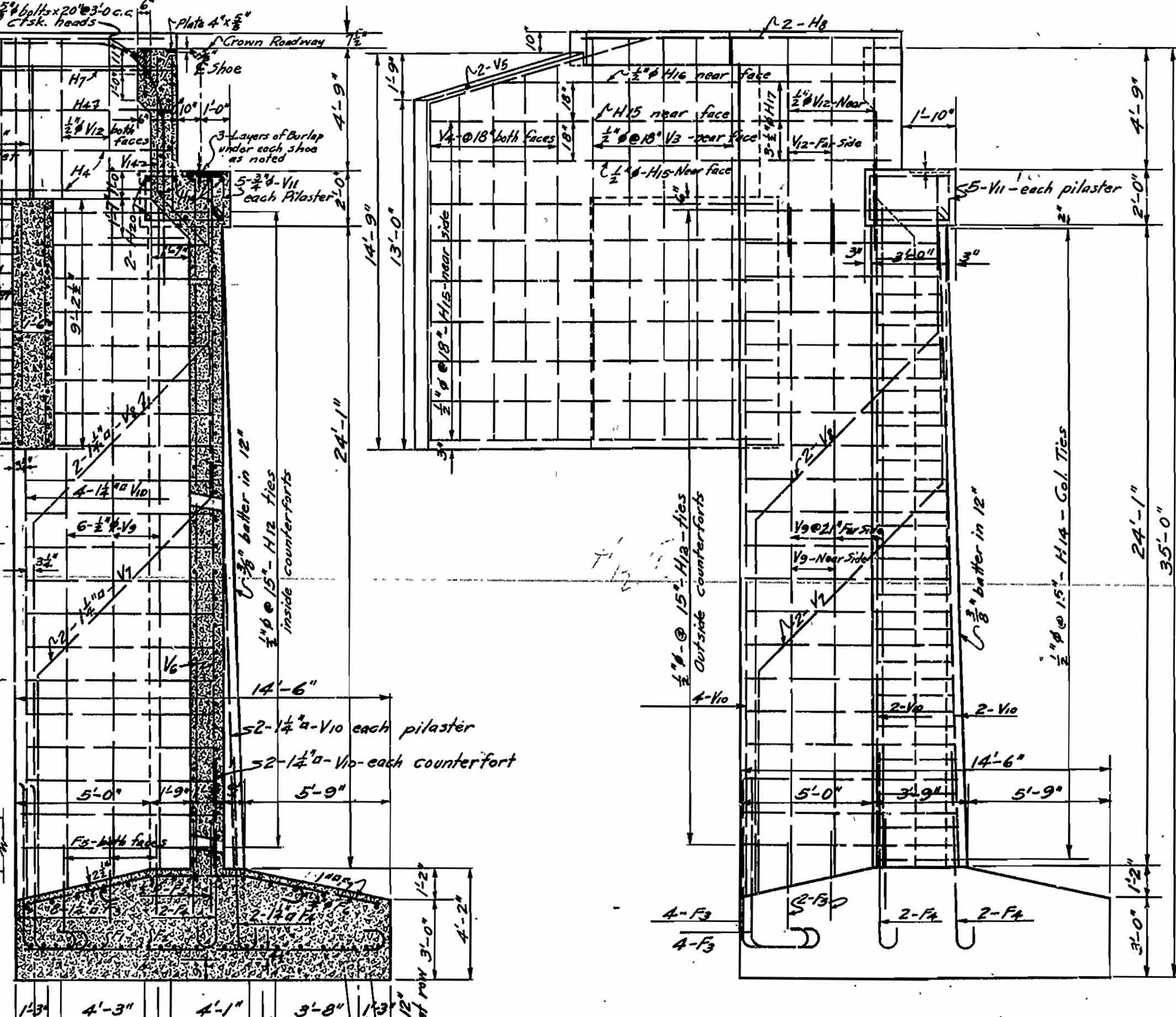
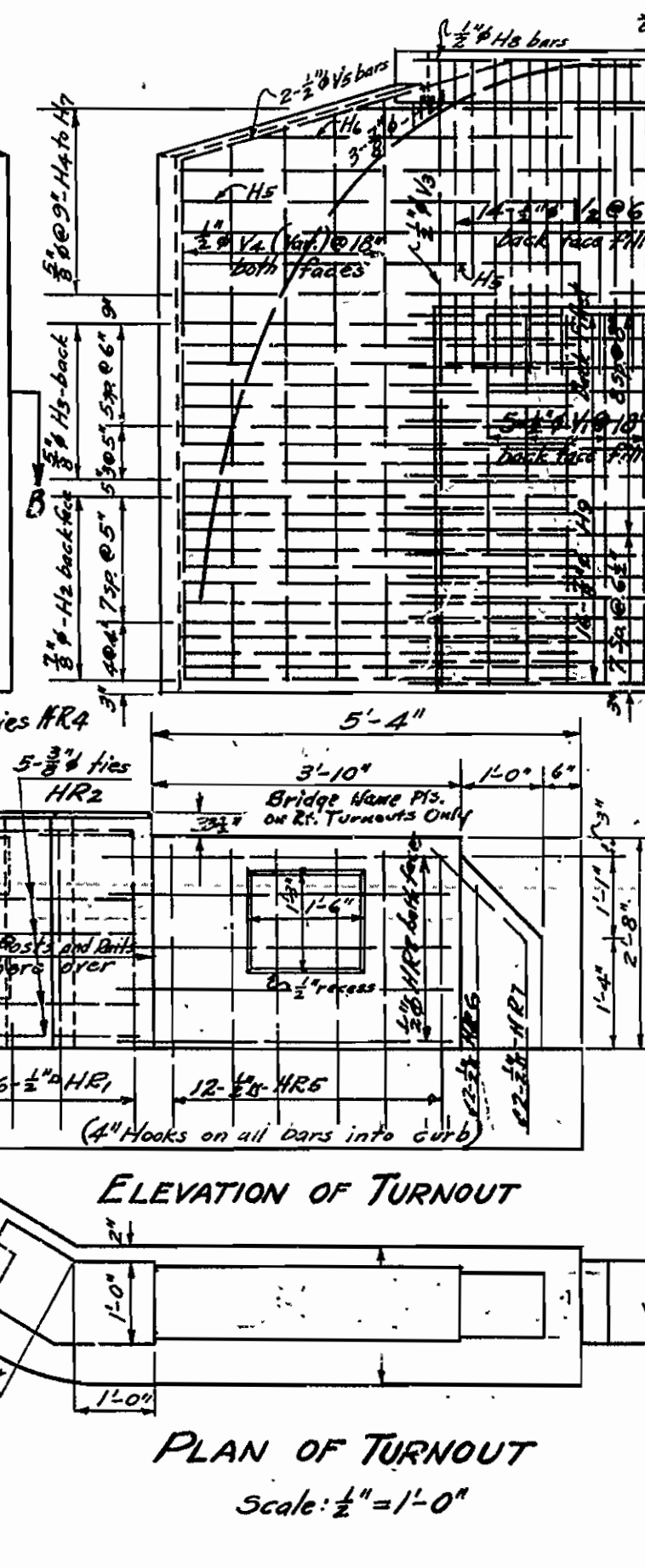
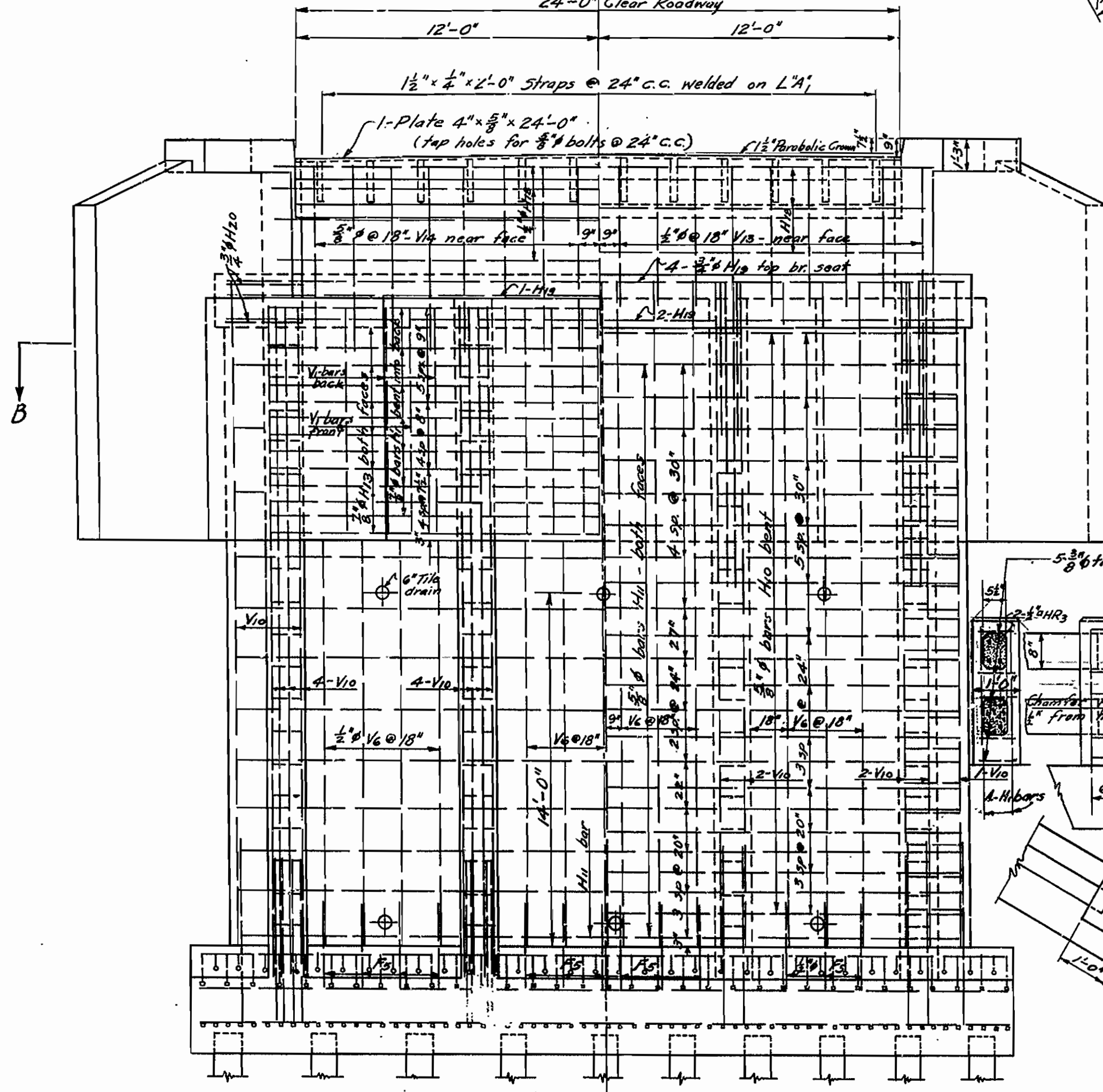
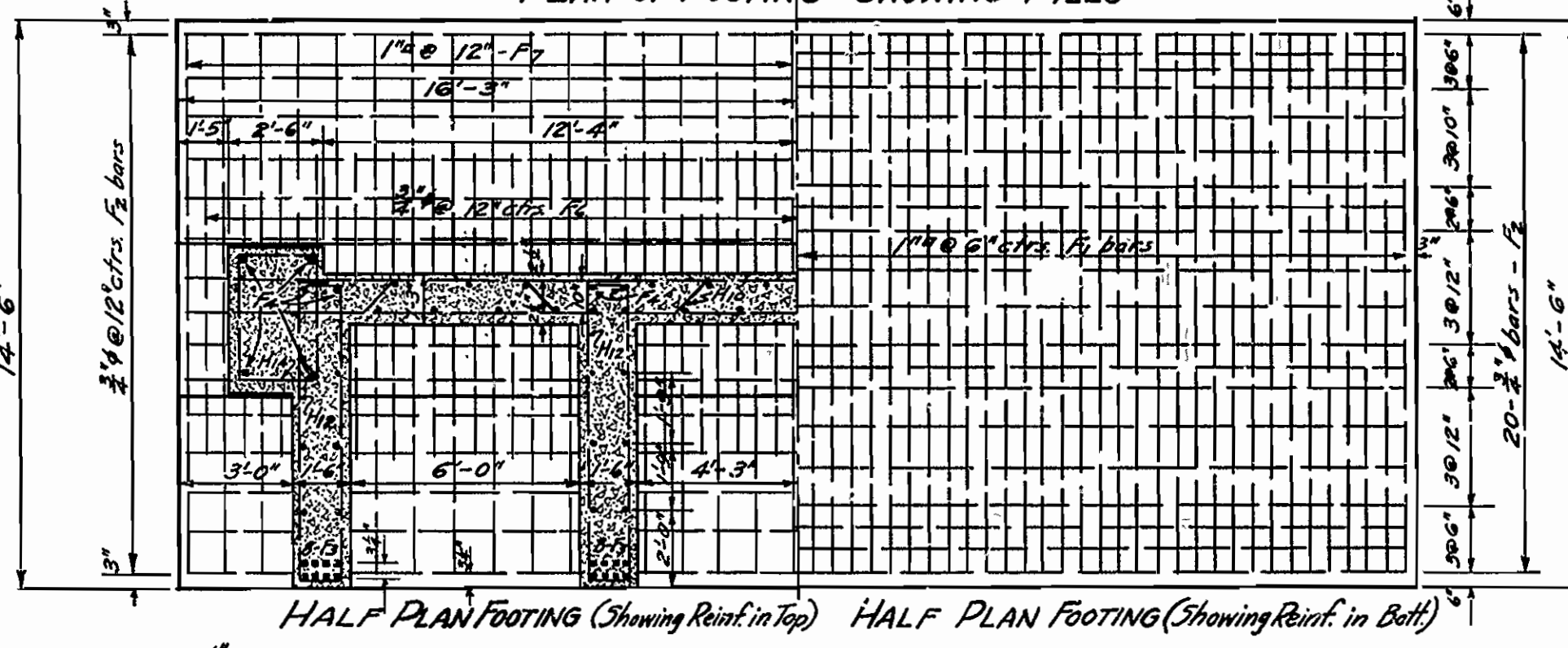
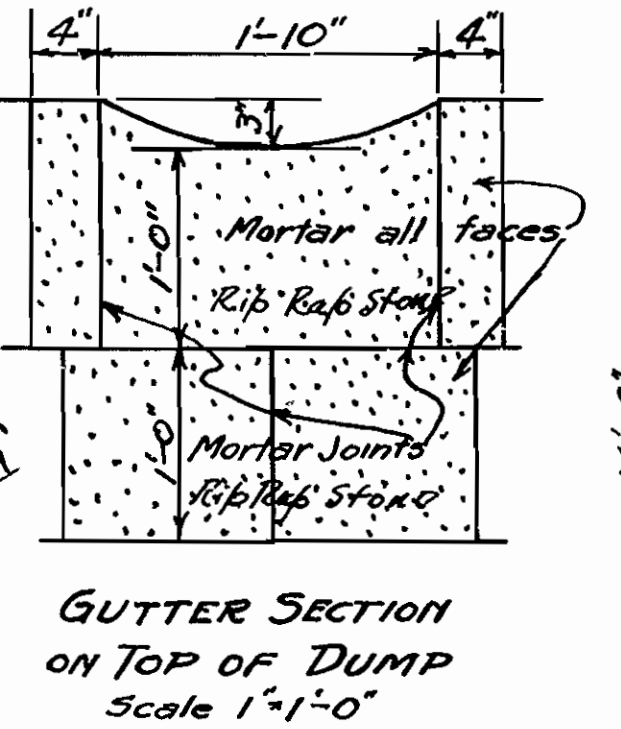
ROAD DIST. NO.	STATE	U.S.P.N. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	166-B	1934	7	15

ARKANSAS JOB NO. 3217

NOTE:
 All Concrete in Abutments is Class A.
 Tile Drains to be included in unit price bid for Class A Concrete.
 Maximum Design Load on piling is 15 Tons.
 All Exposed Corners to be chamfered $\frac{3}{8}$ " except as noted.
 Wrap Ends of handrails in turnouts with tar paper.
 Volume occupied by oak header plank is included in volume of Class A concrete.
 Oak header bolts are to be paid for at unit price bid for Reinforcing Steel.
 Rip-Rap shall be laid to form a gutter as indicated on layout-sheet. The gutters shall conform to section shown and shall be placed as indicated on the plans and as staked by the engineer for conducting water from the curb lines to the bottom of the slope.
 The gutters shall be well grouted with 1:2 cement mortar mix. Full Payment for these gutters will be included in the price bid for Rip-Rap.



MARK	SIZE	NO.	PCS.	LENGTH	BENDING DIAGRAM	TOT. LENGTH	WEIGHT	
F3	1 1/2"	32		8'-0"		288'-0"		
F4	"	16		8'-3"		132'-0"		
V1	"	8		29'-11"		239'-4"		
V8	"	8		29'-11"		239'-4"		
V6	"	24		25'-9"	Straight Bars	618'-0"		
Total for 1 1/2" Steel Reinforcing Bars							1516'-6"	8,058
F7	1"	65		15'-0"		975'-0"		
F1	"	33		14'-5"		475'-9"		
Total for 1" Steel Reinforcing Bars							1450'-9"	3,933
H1	3/8"	7		27'-11"		195'-9"		
H3	"	14		26'-0"	Straight Bars	364'-0"		
H4	"	32		15'-0"		480'-0"		
H5	"	24		11'-6"	Straight Bars	276'-0"		
H6	"	6		28'-0"		168'-0"		
Total for 3/8" Steel Reinforcing Bars							1483'-9"	3,032
F6	3/8"	32		9'-9"		312'-0"		
F2	"	35		32'-0"	Straight Bars	1120'-0"		
V7	"	10		10'-4"		103'-4"		
H10	"	4		2'-11"	Straight Bars	11'-8"		
H9	"	7		29'-8"		207'-8"		
Total for 1/2" Steel Reinforcing Bars							1754'-8"	2,636
H8	1/2"	18		11'-6"	Straight Bars	207'-0"		
H5	"	4		11'-6"		46'-0"		
H6	"	2		9'-3"		18'-6"		
H4	"	6		21'-8"		130'-0"		
H7	"	2		16'-3"		32'-6"		
H11	"	12		31'-2"		374'-0"		
H11	"	24		29'-8"	Straight Bars	704'-0"		
V4	"	16		8'-5"		134'-8"		
Total for 1/2" Steel Reinforcing Bars							1646'-8"	1,717
H12	1/4"	48		1'-6"		72'-0"	61	
F5	5/8"	33		3'-4"	Straight Bars	176'-8"		
V5	"	25		8'-9"		218'-9"		
V2	"	28		7'-9"		217'-0"		
V3	"	12		15'-3"		183'-0"		
V4	"	20		12'-9" to 14'-0"		267'-6"		
V6	"	4		10'-6"		42'-0"		
V7	"	31		25'-10"		800'-10"		
V8	"	22		24'-10" to 25'-8"		555'-6"		
V10	"	10		7'-9"		93'-0"		
V9	"	18		6'-0"		108'-0"		
H8	"	4		12'-6"		50'-0"		
H12	"	60		18'-2"		1453'-4"		
H10	"	40		10'-9"		436'-8"		
H13	"	18		17'-3"		310'-6"		
H14	"	2		14'-3"		28'-6"		
H11	"	6		9'-6"	Straight Bars	57'-0"		
H15	"	7		26'-0"		182'-0"		
Total for 1/4" Steel Reinforcing Bars							5164'-9"	3,450
Bolts 3/8"							8	15.0
Total for Abut. No. 1 - Same for Abut. No. 2							23,900	



QUANTITIES

ABUT. NO.	DRY STRUCT. EXCAV. CU. YDS.	NET STRUCT. EXCAV. CU. YDS.	CONCRETE CU. YDS.	REINFORCING STEEL LBS.	UNREINFORCED TIMBER PILING LIN. FT.	CONCRETE RAILING LIN. FT.
ABUT. NO. 1	90	458	188.1	23,900	672	27
ABUT. NO. 2	90	764	188.1	23,900	672	27
TOTAL	180	1222	376.2	47,800	1,344	54

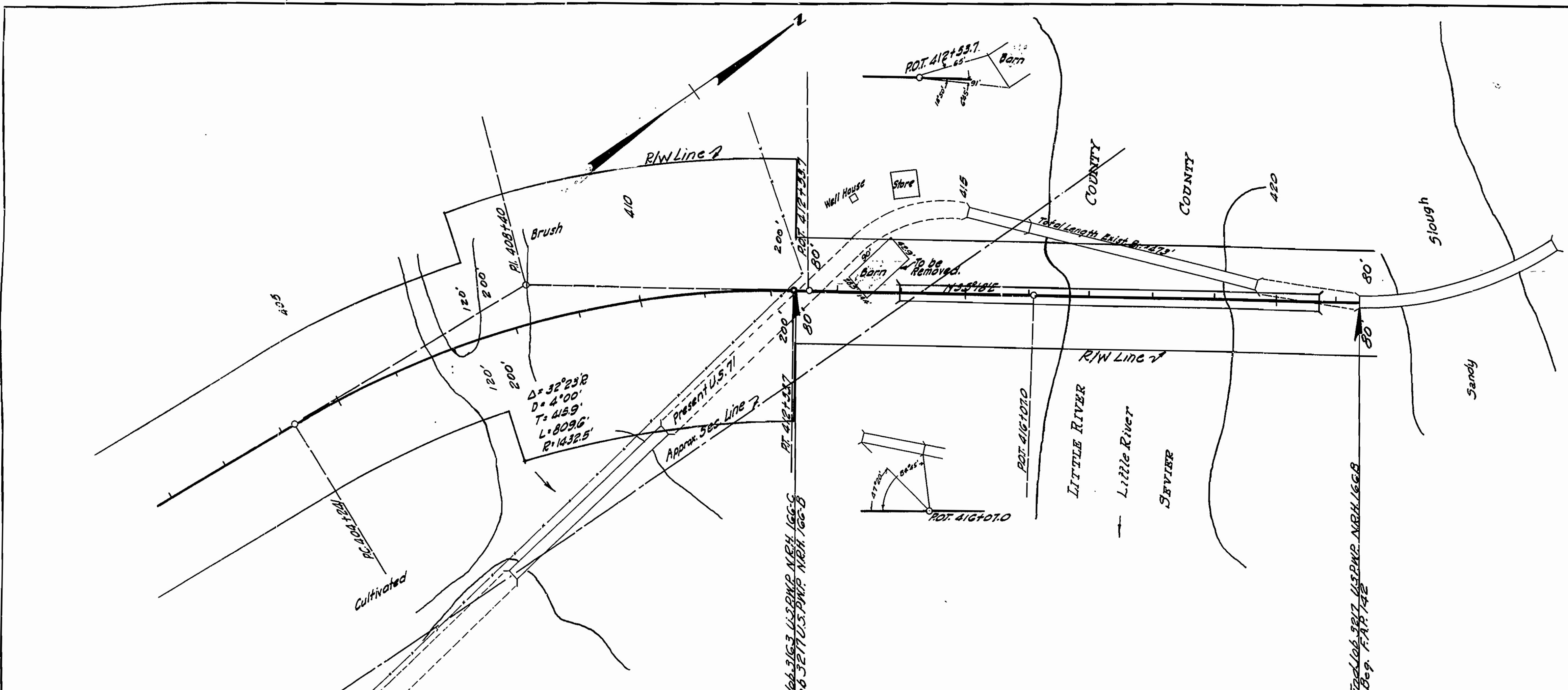
DETAIL OF ABUTMENTS FOR BRIDGE OVER LITTLE RIVER AT WILTON R. 71-34 & 5
 LITTLE RIVER AND SEVIER COUNTIES
 JOB NO. 3217
 ARKANSAS HIGHWAY COMMISSION
 LITTLE ROCK, ARKANSAS.

Drawn By: R.E. Hiles Date: 5-8-34
 Traced By: J.C. Smith Date: 5-10-34
 Checked By: S.A. Date: 5-15-34
 Scale: 1/2"=1'-0" except as noted

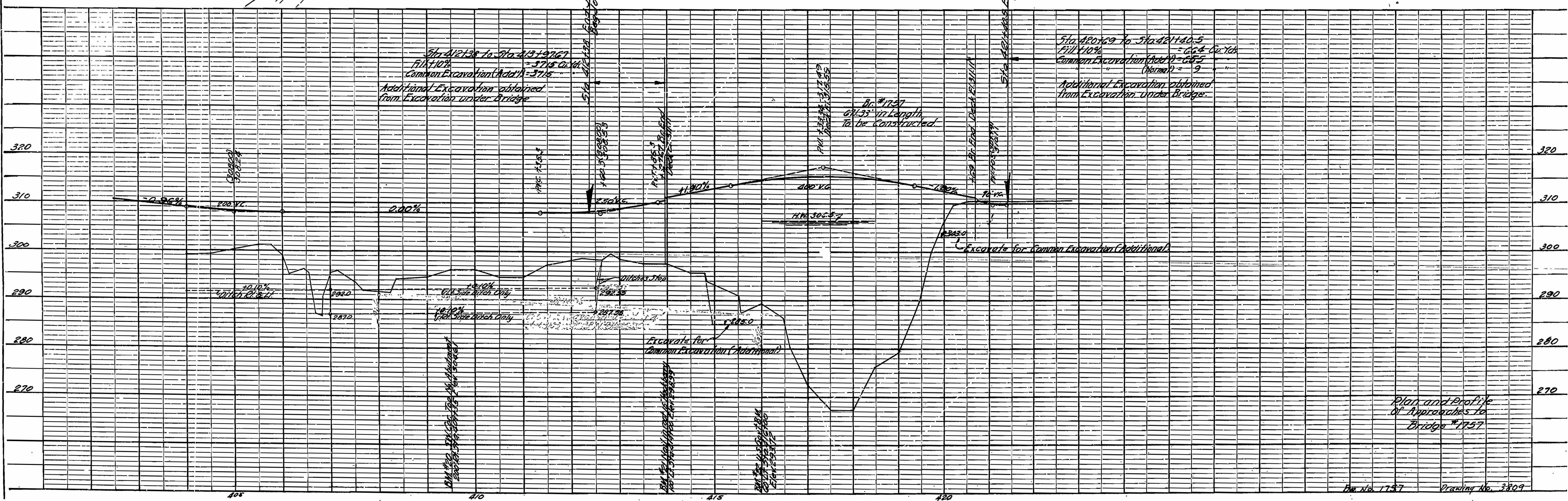
FED. ROAD DIST. No.	STATE	U.S.P.A. PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
8	ARK.	N.H. 1668	1934	8	15

Job 3217

PLAN	REVISIONS
NOTED	
ALIGNED CHECKED	
51.0' BY CHECKED	

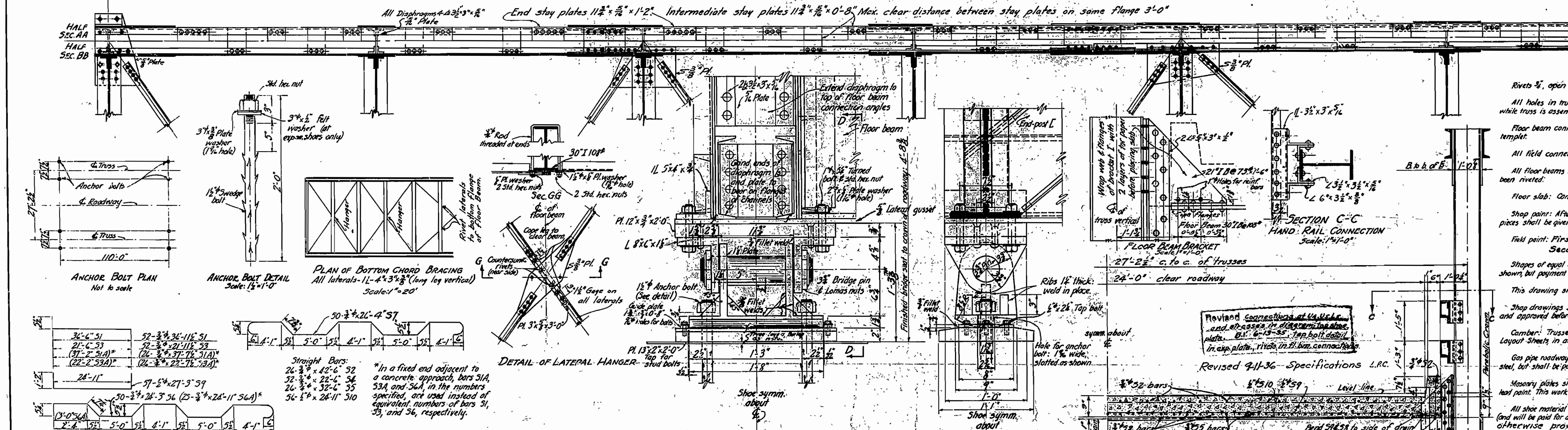
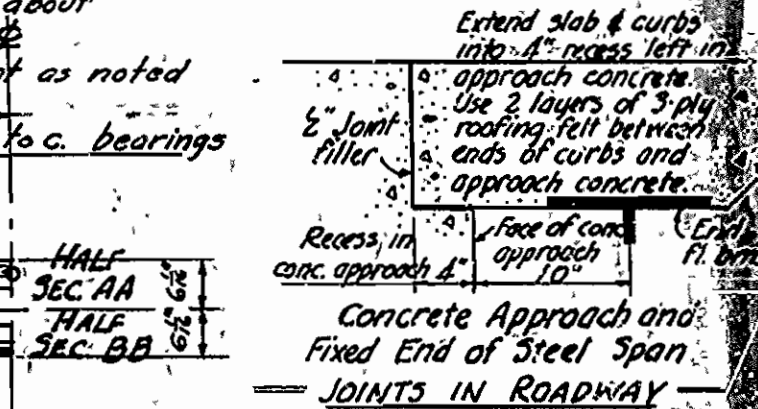
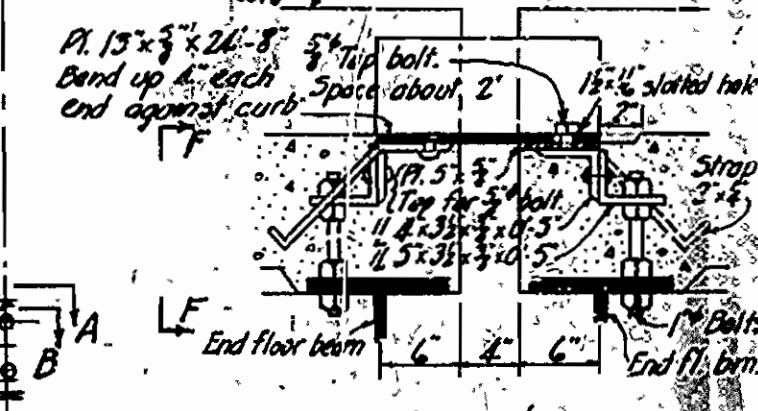
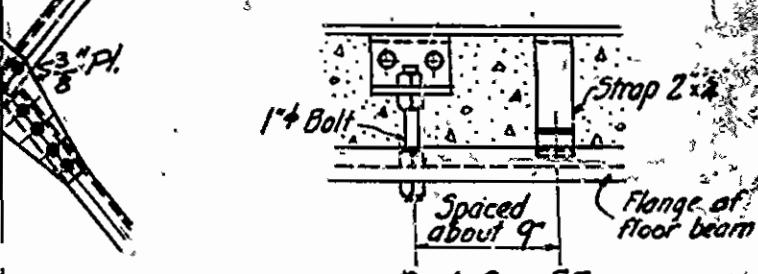
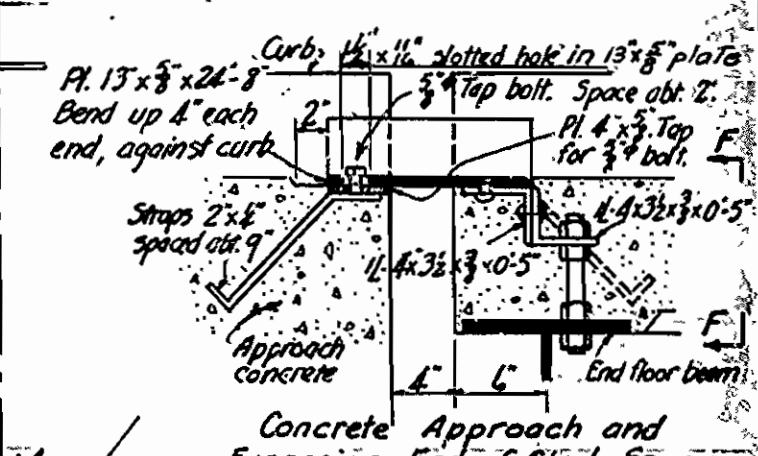
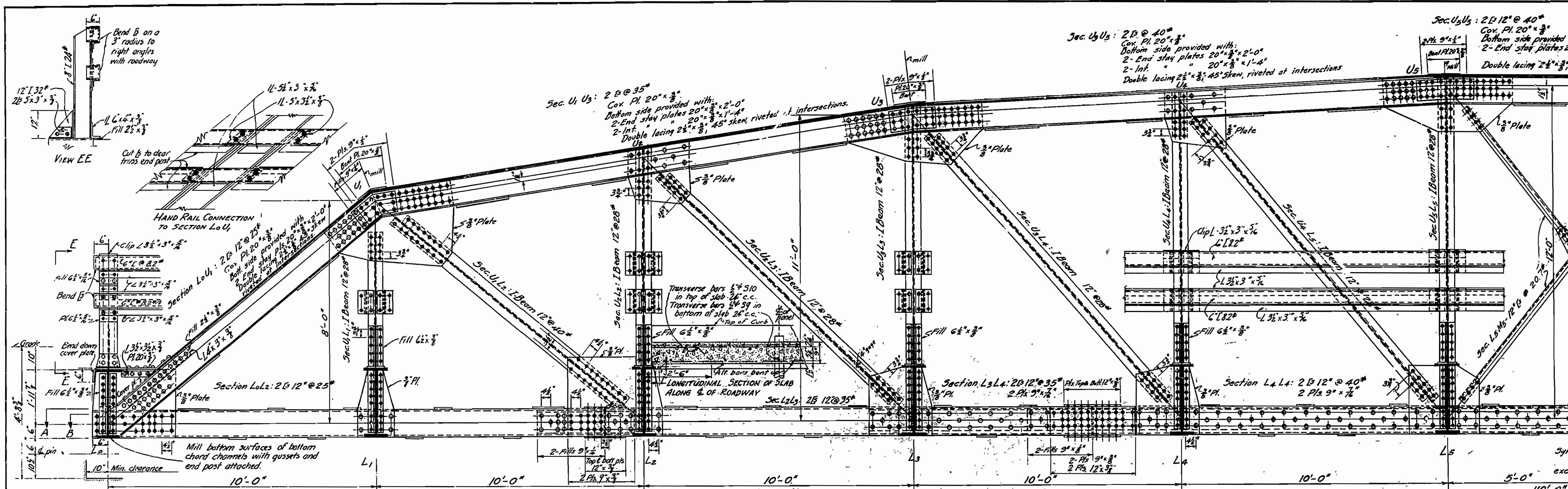


NOTE: For details of Std. Roadway Section see Drawing No. F55.



Plan and Profile of Approaches to Bridge #1757

FED. ROAD DIST. NO.	STATE	U.S.P.W. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			11	34



GENERAL NOTES

Rivets $\frac{1}{2}$ " open holes $\frac{1}{8}$ " except in flanges of C's; $\frac{1}{4}$ " holes.

All holes in truss connections to be sub-punched to $\frac{1}{8}$ " and reamed to size while truss is assembled. This applies to field as well as shop rivets.

Floor beam connections shall be sub-punched to $\frac{1}{8}$ " and reamed to a metal template.

All field connections shall be riveted.

All floor beams shall be milled to exact length after framing angles have been riveted.

Floor slab: Concrete to be Class 5. One inch has been added for wear.

Shop paint: After being completely assembled and shop work is finished all pieces shall be given one coat of red lead and raw linseed oil, before shipment.

Field paint: First coat - white lead tinted with lamp black. Second coat - Aluminum.

Shapes of equal or greater strength may be substituted for structural shapes shown, but payment will be made in accordance with sizes shown on this plan.

This drawing shows general features of design only.

Shop drawings shall be made in compliance with specifications, submitted and approved before fabrication begins.

Camber: Trusses shall be cambered to fit the vertical curve shown on the Layout Sheets in addition to that required for dead load only.

Gas pipe roadway drains shall be paid for at the unit price bid for reinforcing steel, but shall be painted the same as is specified for structural steel.

Masonry plates shall be finally sealed on three layers of burlap saturated with red lead paint. This work and material shall be included in price bid for Machine Boring Devices.

All steel material below bottom lateral plates, including anchor bolts, is considered (and will be paid for at the unit price bid for) Machine Boring Devices, unless otherwise provided for.

Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted June 30, 1930, and Special Provision for Design Specifications for Bridges dated 9-11-34.

REINFORCING BAR BENDING DIAGRAMS

Not to scale

DESIGN STRESSES

Reaction	D-209	L-101	T-189	D-249	L-119	T-209	D-259	L-129	T-219	D-269	L-139	T-229
Dead load moment	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000
Live load moment	226,000	226,000	226,000	226,000	226,000	226,000	226,000	226,000	226,000	226,000	226,000	226,000
Impact @ 30%	64,000	64,000	64,000	64,000	64,000	64,000	64,000	64,000	64,000	64,000	64,000	64,000
Total moment	408,000	408,000	408,000	408,000	408,000	408,000	408,000	408,000	408,000	408,000	408,000	408,000
Required section modulus	303 in ³	303 in ³	303 in ³	303 in ³	303 in ³	303 in ³	303 in ³	303 in ³	303 in ³	303 in ³	303 in ³	303 in ³
Sec. modulus of 30" I 108*	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2

UNIT STRESSES

750 lb./sq. in.

Concrete

Reinforcing steel 16,000

Structural steel 16,000

LIVE LOAD

H-15 Loading

FLOOR BEAM DATA

Dead load moment = 118,000 ft.-lb.

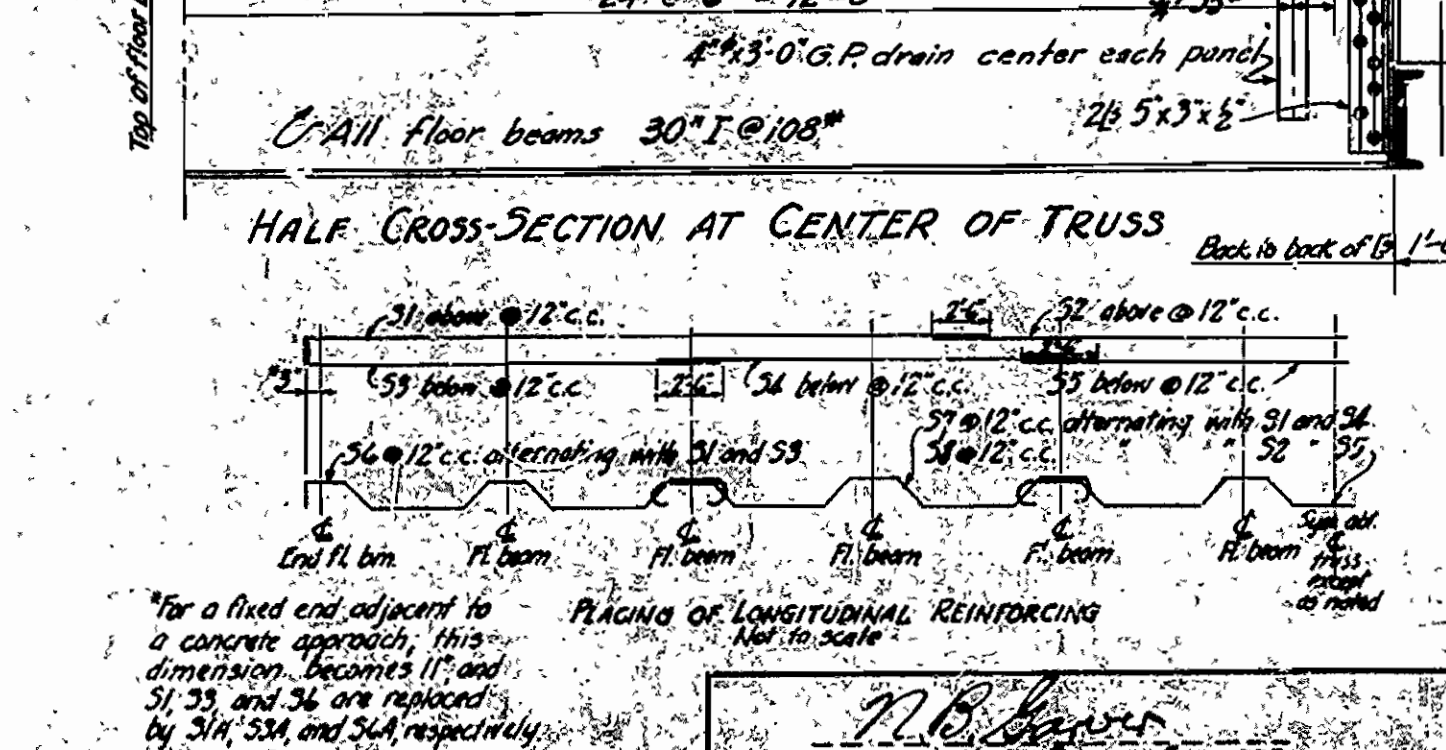
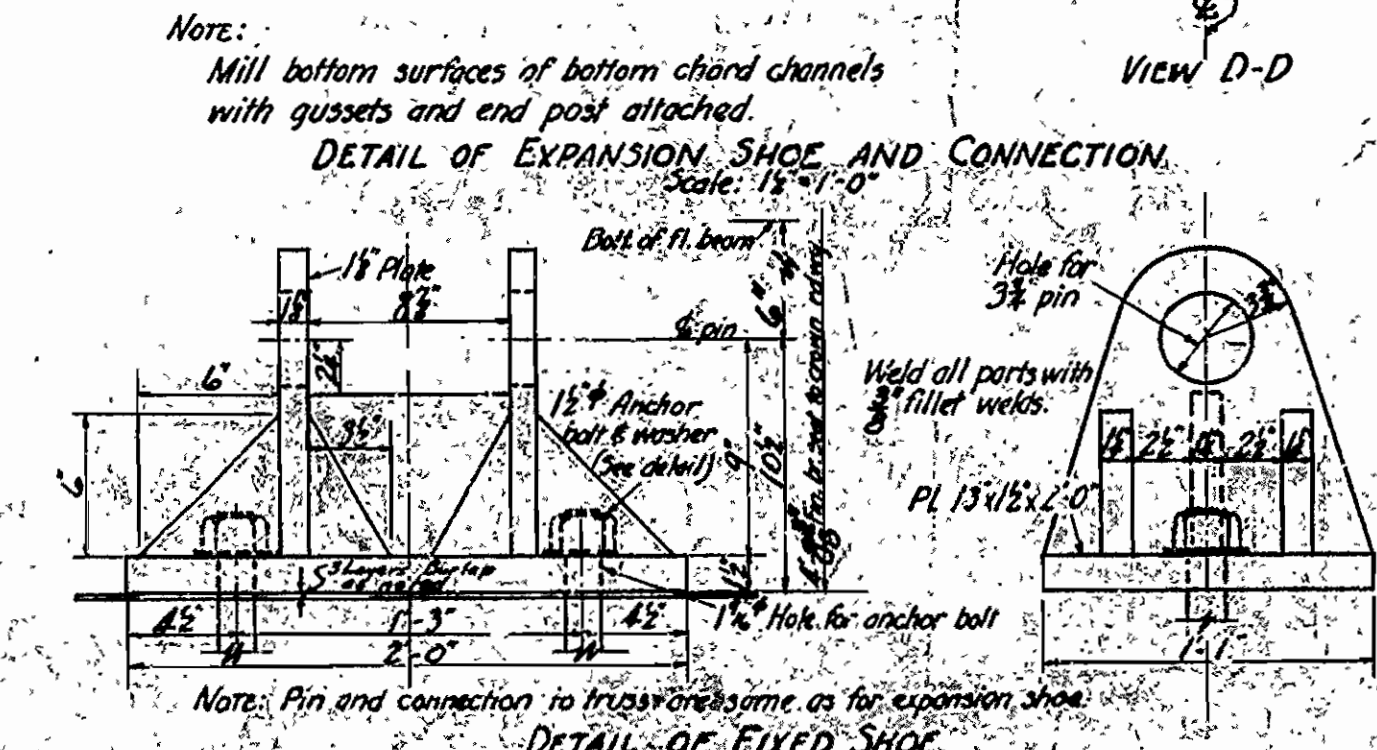
Live load moment = 226,000

Impact @ 30% = 64,000

Total moment = 408,000

Required section modulus = 303 in³

Sec. modulus of 30" I 108* = 299.2



110'-0" LOW TRUSS SPAN

24'-0" CLEAR ROADWAY

ARKANSAS HIGHWAY COMMISSION

LITTLE ROCK, ARKANSAS

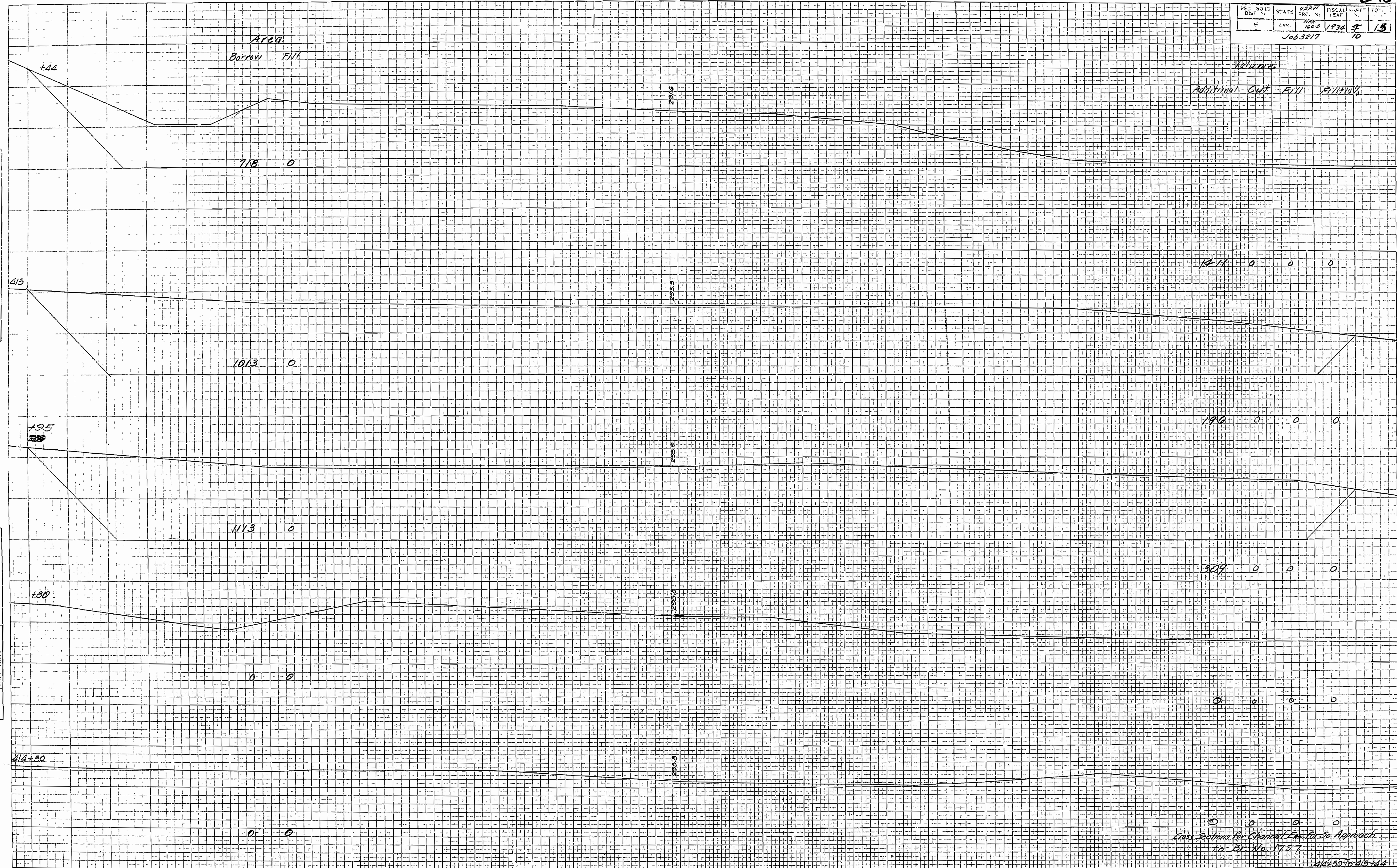
Drawn By: R.E. Hays Date: 4-30-34

Traced By: J.P. Date: 5-18-34

Checked By: Date:

BRIDGE No. [] DRAWING No. 249

SEC. ROAD DIST. NO.	STATE	U.S.P.W. SEC. NO.	FISCAL YEAR	PROJECT NO.
5	OK.	166-B	1934	7
Job 3217			10	13



Area
Borrow Fill

Volume
Additional Exc. Fill

415

495

480

44+50

Cross Sections for Channel Exc. for 50' Approach
to Br. No. 1757

44+50 to 45+44
DRAWING No. 3810

SURVEY
MISTAKE
NOTE: BRIDGE
AREA
IS NOT TO BE CONSIDERED

286

DIST. NO.	STAT.	USPAK	FILE NO.	DATE
5	ARK.	NRM	166-B	1934
JOB NO.		3817		

80 70 60 50 40 30 25 20 15 10 5 0 5 10 15 20 25 30 40 50 60

Area
Cut Fill

Volume
Cut Fill FILL/10%

13 187

9 341 375

0 267

0 263 229

0 192

Sta 421+40.5 End Job 3817 - VSPWP - NRM 166-B

421+40.5

Water Level 4-10-34

Old High Water

421+00

Water Level 4-10-34

Old High Water

420+70

Old High Water

Water Level 4-10-34

420+19.5

Old High Water

Cross Sections of Channel Elevation Approach
For
BRIDGE OVER LITTLE RIVER
Wilton Little River Road
Route 71

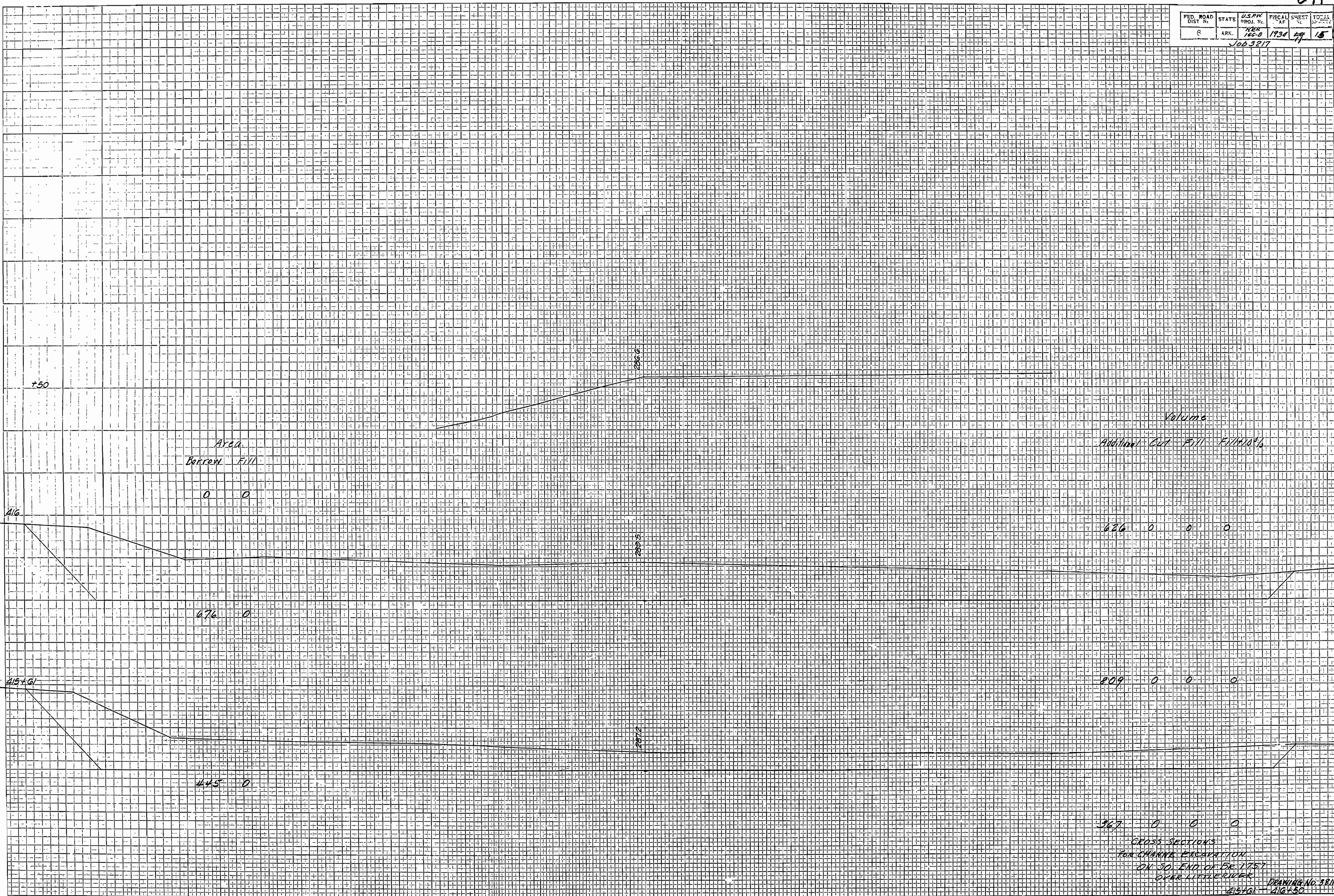
FINAL SURVEY	DATE
NO.	

ORIGINAL SURVEY	DATE
NO.	

FED. ROAD DIST. No.	STATE	U.S.P.W. PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	166-B	1934	59	15
JOB 3217					

DATE: _____ BY: _____
 ORIGINAL SURVEY PLOTTED _____
 NOTE BOOK NO. _____
 CHECKED BY _____
 REVISIONS _____

DATE: _____ BY: _____
 ORIGINAL SURVEY PLOTTED _____
 NOTE BOOK NO. _____
 CHECKED BY _____
 REVISIONS _____



367 0 0 0
 CROSS SECTIONS
 FOR CHANNEL EXCAVATION
 ON SO. END OF BR. 1757
 OVER LITTLE RIVER
 DRAWING NO. 381
 416+61 416+50