

FED. DIST. NO.	STATE	U.S. PW PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	ARK.	NRH 311-D	1934	1	17

JOB NO. 3166

244

STATE OF ARKANSAS STATE HIGHWAY COMMISSION

INDEX OF SHEETS

Sheet No.	Drwg. No.	Sheet
1	3777	Title Sheet
2	3778	Schedule of Quantities
3	3779	Layout of Bridge No. 1867
4	3780	Details of Abutments for Bridge No. 1867
5	3781	Details of Bents for Bridge No. 1867
6	2154	Details of 41' I-Beam Span for Bridges 1867 & 1868
7	3782	Layout of Bridge No. 1868
8	3783	Details of Abutments for Bridge No. 1868
9	3784	Layout of Bridge No. 1708
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11	3786	Layout of Bridge No. 1869
12	3787	Layout of Bridge No. 1321
13	3788	Details of Abutments for Bridges No. 1708, 1707, 1869 & 1321
14	3789	Details of Piers for Bridges No. 1708, 1707, 1869 & 1321
15	2153	Details of 31' I-Beam Span for Bridges No. 1708, 1707 & 1321 & 1869
16	2386	Details of Bronze State Bridge Name Plates and Bronze Project Marker Plates
17	1885	Details of Embankment Construction at Bridge Ends

QUANTITIES

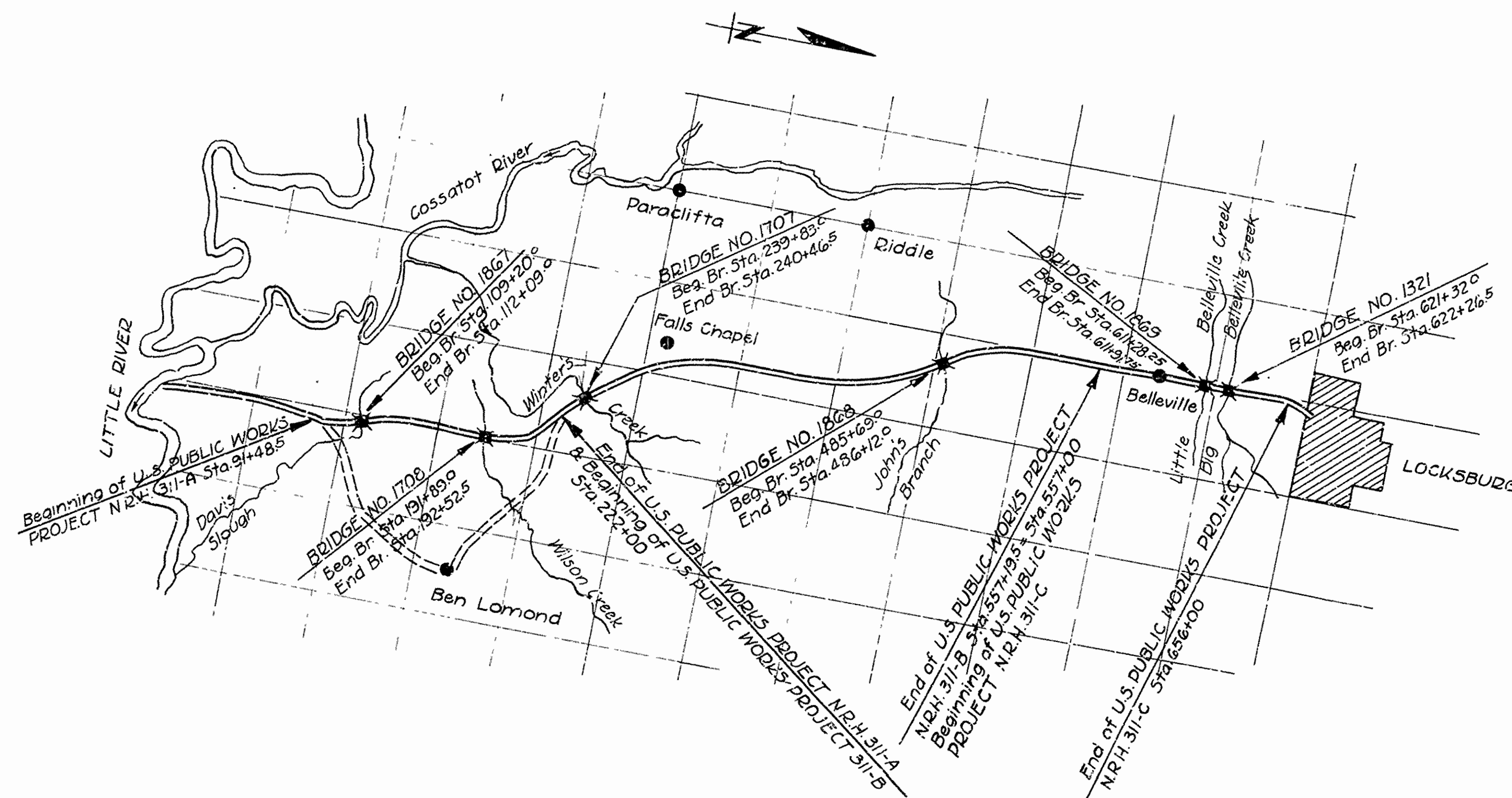
Item No.	Item	Quantity	Unit
13	Dry Excavation for Structures	1,231	Cu.Yds.
13	Wet Excavation for Structures	1,451	Cu.Yds.
91	Class "4" Concrete for Bridges	884.9	Cu.Yds.
91	Class "5" Concrete for Bridges	3673	Cu.Yds.
92	Reinforcing Steel for Bridges	164,673	Lbs.
94	Concrete Railing for Bridges	1,337	Lin.Ft.
95	Dip Rap	449	Cu.Yds.
96	Structural Steel in Beam Spans	280,786	Lbs.
98	Untreated Timber Piling	5,328	Lin.Ft.
S.P.	Machined Bearing Plates	13,496	Lbs.
S.P.	Bronze State Bridge Name Plates	12	Each
S.P.	Bronze Project Marker Plates	12	Each
S.P.	Removal of Existing Structures and Maintaining Traffic	Lump Sum	

PLAN OF PROPOSED BRIDGES ON LITTLE RIVER-LOCKSBURG ROAD SEVIER COUNTY

ROUTE 71 SEC. 5

JOB No 3166

U.S. PUBLIC WORKS PROJECT N.R.H. 311-D



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

Pamphlet	Revised	Month	Year	Appr.	Date
A		March	1931		June 13, 1931
L		Feb.	10, 1933		
M		March	1, 1931		June 13, 1931
N		Oct.	1, 1933		
O		Oct.	1, 1933		
P		Oct.	1, 1933		

SPECIAL PROVISIONS

Item	No. of Sheets
Subletting, Labor & NRA Code Compliance	13
Beginning and Prosecution of Work	1
Machined Bearing Plates	1
Bronze Project Marker Plates & Bronze State Bridge Name Plates	1
Removal of Existing Structures & Maintaining Traffic	1
Engineer's Field Office	1

LAYOUT

Scale: 1" = 1 Mile

LENGTH OF PROJECT	= 617'-0" = 0.116 MILES
LENGTH OF BRIDGES	= 617'-0" = 0.116 MILES
LENGTH OF EMBANKMENT	= 0'-0"
LENGTH OF JOB	= 617'-0" = 0.116 MILES

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	

M.B. Gower
BRIDGE ENGINEER

BRIDGES No. 1867, 1708, 1707, 1869, 1869 & 1321
DRAWING No. 3777

FED. ROAD DIST. NO.	STATE	U.S. PUBLIC WORKS PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	N.R.H.311-D	1934	2	17

JOB NO. 3166

SCHEDULE OF QUANTITIES
U.S. PUBLIC WORKS PROJECT NO. N.R.H. 311-D
STATE JOB NO. 3166

Items		Item No. 13 Dry Excav. for Struct's Cu. Yds.	Item No. 13 Wet Excav. for Struct's Cu. Yds.	Item No. 91 Class "A" Conc. for Bridges Cu. Yds.	Item No. 91 Class "S" Conc. for Bridges Cu. Yds.	Item No. 92 Reinf. Steel for Bridges Lbs.	Item No. 94 Conc. Railing for Bridges Lin. Ft.	Item No. 95 Rip Rap Cu. Yds.	Item No. 96 Struct. Steel in Beam Spans Lbs.	Item No. 98 Untr. Timber Piling Lin. Ft.	Item No. 5.P Machined Bear. Plates Lbs.	Item No. 5.P Bronze St. Br. Name Plates Each	Item No. 5.P Bronze Proj. Marker Pl's Each	Item No. 5.P Removal of Exst'g Struct. & Maintain. Traffic.
Bridge No. 1867	Superstructure 7-41' I-Beam Spans	-	-	-	171.7	37,005	574.0	-	147,770	-	6,013	-	-	
	Abutment No. 1	122.0	74.0	59.6	-	6,562	10.5	65.0	-	324.0	-	1	-	
	Bent No. 1	17.0	66.0	28.1	-	2,079	-	-	-	216.0	-	-	-	
	Bent No. 2	0	53.0	28.1	-	2,079	-	-	-	216.0	-	-	-	
	Bent No. 3	0	57.0	28.1	-	2,079	-	-	-	216.0	-	-	-	
	Bent No. 4	2.0	66.0	28.1	-	2,079	-	-	-	216.0	-	-	-	
	Bent No. 5	15.0	66.0	28.1	-	2,079	-	-	-	216.0	-	-	-	
	Bent No. 6	25.0	66.0	28.1	-	2,079	-	-	-	216.0	-	-	-	
	Abutment No. 2	122.0	74.0	59.6	-	6,562	10.5	65.0	-	324.0	-	1	-	
	Totals	303.0	522.0	287.8	171.7	62,603	595.0	130.0	147,770	1,944.0	6,013	2	2	
Bridge No. 1868	Superstructure 1-41' I-Beam Span	-	-	-	24.6	5,354	82.0	-	21,110	-	859	-	-	
	Abutment No. 1	27.0	131.0	57.5	-	4,978	9.0	-	-	-	-	1	-	
	Abutment No. 2	48.0	131.0	57.5	-	4,978	9.0	-	-	-	-	1	-	
	Totals	75.0	262.0	115.0	24.6	15,310	100.0	0.0	21,110	0.0	859	2	2	
Bridge No. 1708	Superstructure 2-31' I-Beam Spans	-	-	-	38.0	8,290	124.0	-	24,868	-	1,472	-	-	
	Abutment No. 1	96.0	63.0	44.7	-	4,961	10.5	29.0	-	288.0	-	1	-	
	Pier No. 1	0	45.0	24.9	-	1,958	-	-	-	216.0	-	-	-	
	Abutment No. 2	136.0	63.0	44.7	-	4,961	10.5	24.0	-	288.0	-	1	-	
	Totals	232.0	171.0	114.3	38.0	20,170	145.0	53.0	24,868	792.0	1,472	2	2	
Bridge No. 1707	Superstructure 2-31' I-Beam Spans	-	-	-	38.0	8,290	124.0	-	24,868	-	1,472	-	-	
	Abutment No. 1	98.0	52.0	44.7	-	4,961	10.5	44.0	-	288.0	-	1	-	
	Pier No. 1	0	57.0	24.9	-	1,958	-	-	-	216.0	-	-	-	
	Abutment No. 2	95.0	52.0	44.7	-	4,961	10.5	44.0	-	288.0	-	1	-	
	Totals	193.0	141.0	114.3	38.0	20,170	145.0	88.0	24,868	792.0	1,472	2	2	
Bridge No. 1869	Superstructure 2-31' I-Beam Spans	-	-	-	38.0	8,290	124.0	-	24,868	-	1,472	-	-	
	Abutment No. 1	70.0	63.0	44.7	-	4,961	10.5	43.0	-	288.0	-	1	-	
	Pier No. 1	0	39.0	24.9	-	1,958	-	-	-	216.0	-	-	-	
	Abutment No. 2	52.0	55.0	44.7	-	4,961	10.5	52.0	-	288.0	-	1	-	
	Totals	122.0	157.0	114.3	38.0	20,170	145.0	95.0	24,868	792.0	1,472	2	2	
Bridge No. 1321	Superstructure 3-31' I-Beam Spans	-	-	-	57.0	12,412	186.0	-	37,302	-	2,208	-	-	
	Abutment No. 1	193.0	64.0	44.7	-	4,961	10.5	40.0	-	288.0	-	1	-	
	Pier No. 1	-	35.0	24.9	-	1,958	-	-	-	216.0	-	-	-	
	Pier No. 2	-	35.0	24.9	-	1,958	-	-	-	216.0	-	-	-	
	Abutment No. 2	107.0	64.0	44.7	-	4,961	10.5	43.0	-	288.0	-	1	-	
	Totals	306.0	198.0	139.2	57.0	26,250	207.0	83.0	37,302	1,008.0	2,208	2	2	
GRAND TOTALS		1,231.0	1,451.0	884.9	367.3	164,673	1,337.0	449.0	280,786	5,328.0	13,496.0	12	12	LUMP SUM

See Special Provisions

SCHEDULE OF QUANTITIES
FOR BRIDGES ON
LITTLE RIVER-LOCKSBURG ROAD
SEVIER COUNTY
ROUTE 75, SEC. 1

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

N. B. Kanner
BRIDGE ENGINEER

Drawn by: E.B.S. Date: 4-21-34
Traced by: A. Date: 4-23-34
Checked by: Dats: 1267, 1869, 1708, 1707, 1869 & 1321

BRIDGES NO.

DRWG NO. 3778

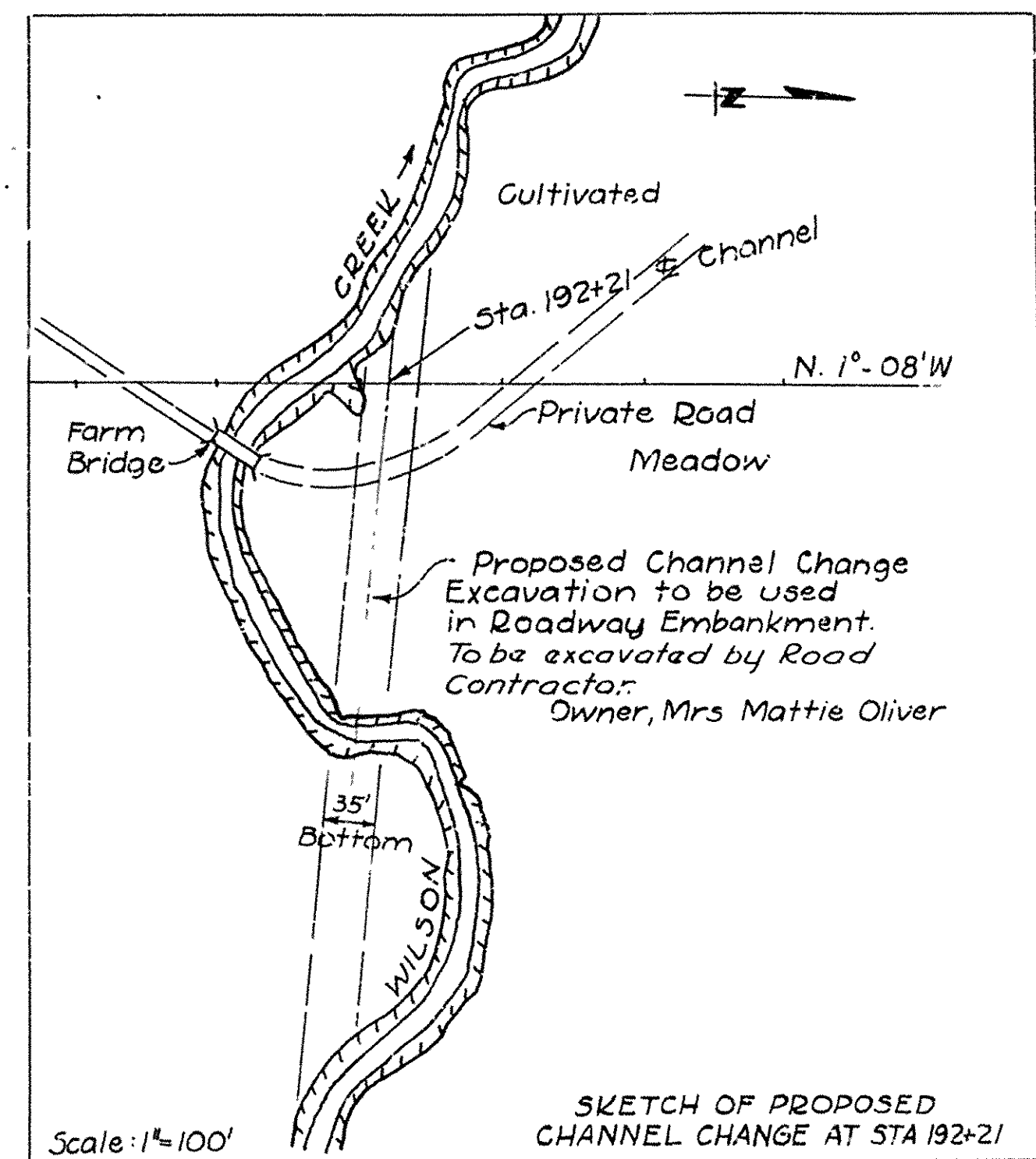
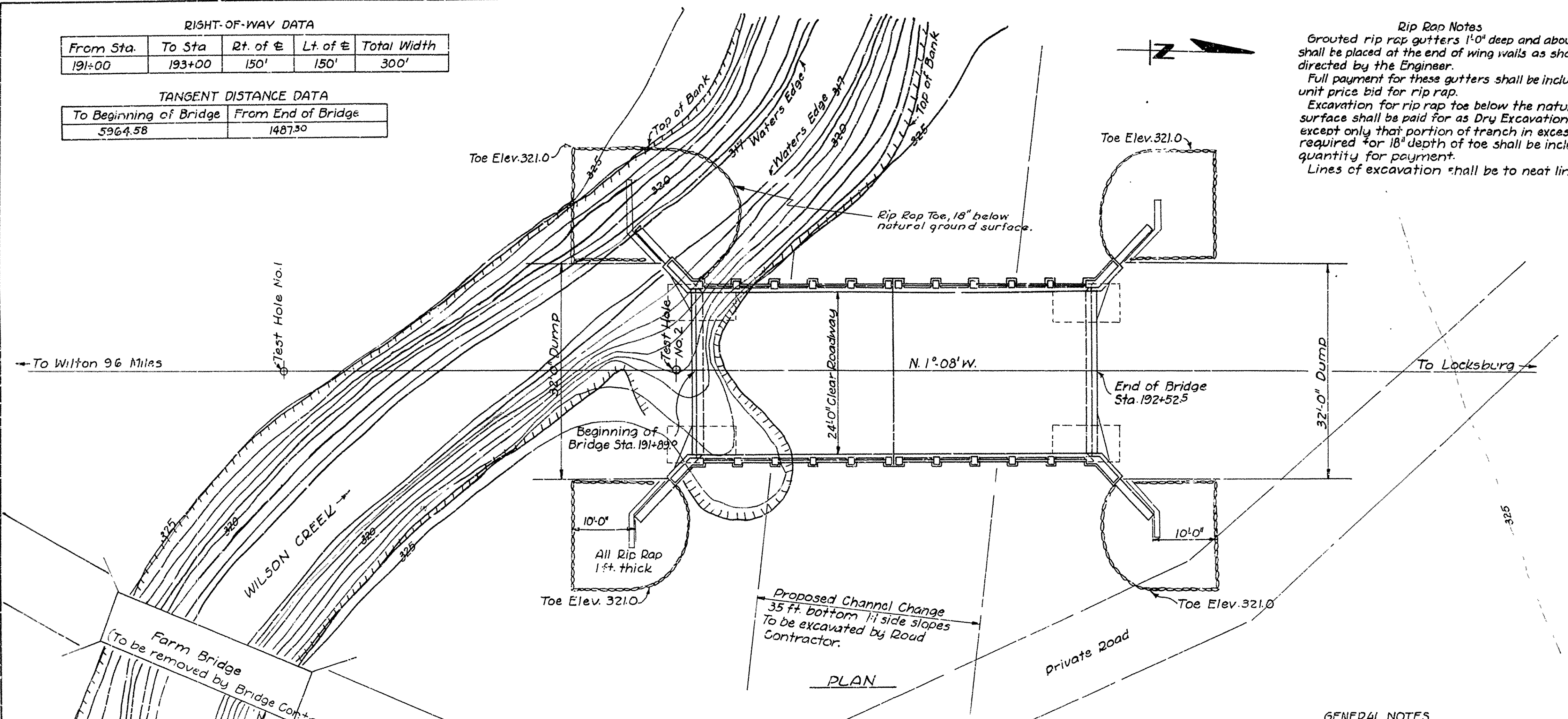
RIGHT-OF-WAY DATA				
From Sta.	To Sta.	Rt. of C	Lt. of C	Total Width
191+00	193+00	150'	150'	300'

TANGENT DISTANCE DATA	
To Beginning of Bridge	From End of Bridge
5964.58	1487.30

FED. ROAD DIST. NO.	STATE	U.S. PUB. WORKS PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	N.R.H. 311-D	1934	9	17

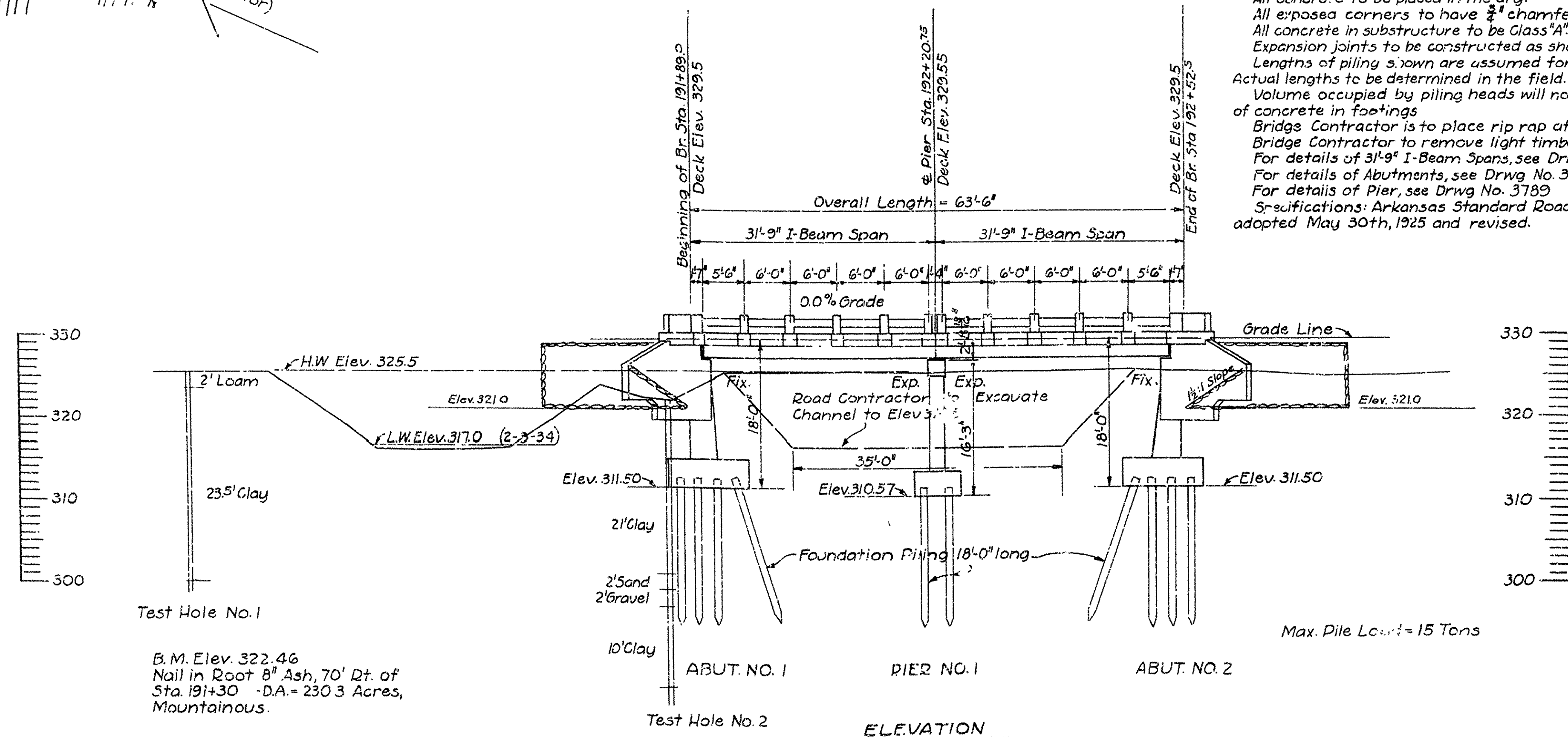
JOB NO. 3166

Rip Rap Notes
Grouted rip rap gutters 1'-0" deep and about 1'-0" wide shall be placed at the end of wing walls as shown and as directed by the Engineer.
Full payment for these gutters shall be included in the unit price bid for rip rap.
Excavation for rip rap toe below the natural ground surface shall be paid for as Dry Excavation for Structures, except only that portion of trench in excess of that required for 18" depth of toe shall be included in quantity for payment.
Lines of excavation shall be to neat lines of rip rap.



GENERAL NOTES
All concrete to be placed in the dry.
All exposed corners to have 3/4" chamfers unless otherwise shown.
All concrete in substructure to be Class 'A'.
Expansion joints to be constructed as shown on Layout.
Lengths of piling shown are assumed for estimating quantities only.
Actual lengths to be determined in the field.
Volume occupied by piling heads will not be included in pay quantities of concrete in footings.
Bridge Contractor is to place rip rap at bridge ends.
Bridge Contractor to remove light timber farm bridge.
For details of 31'-9" I-Beam Spans, see Drwg. No. 2153.
For details of Abutments, see Drwg. No. 3738.
For details of Pier, see Drwg. No. 3789.
Specifications: Arkansas Standard Road & Bridge Specifications, adopted May 30th, 1925 and revised.

QUANTITIES			
Item No.	Item	Quantity	Unit
13	Dry Excavation for Structures	232.0	Cu. Yds.
13	Wet Excavation for Structures	171.0	Cu. Yds.
91	Class 'A' Concrete for Bridges	114.3	Cu. Yds.
91	Class 'S' Concrete for Bridges	38.0	Cu. Yds.
92	Reinforcing Steel for Bridges	20,170	Lbs.
94	Concrete Railing for Bridges	145	Lin. Ft.
96	Structural Steel in Beam Spans	24,868	Lbs.
95	Rip Rap	530	Cu. Yds.
98	Untreated Timber Piling	792.0	Lin. Ft.
SP	Machined Bearing Plates	1,472	Lbs.
SP	Bronze Steel Bridge Name Plates	2	Each
SP	Bronze Project Marker Plates	2	Each
SP	Removal of Existing Structures and Maintaining Traffic		Lump Sum.



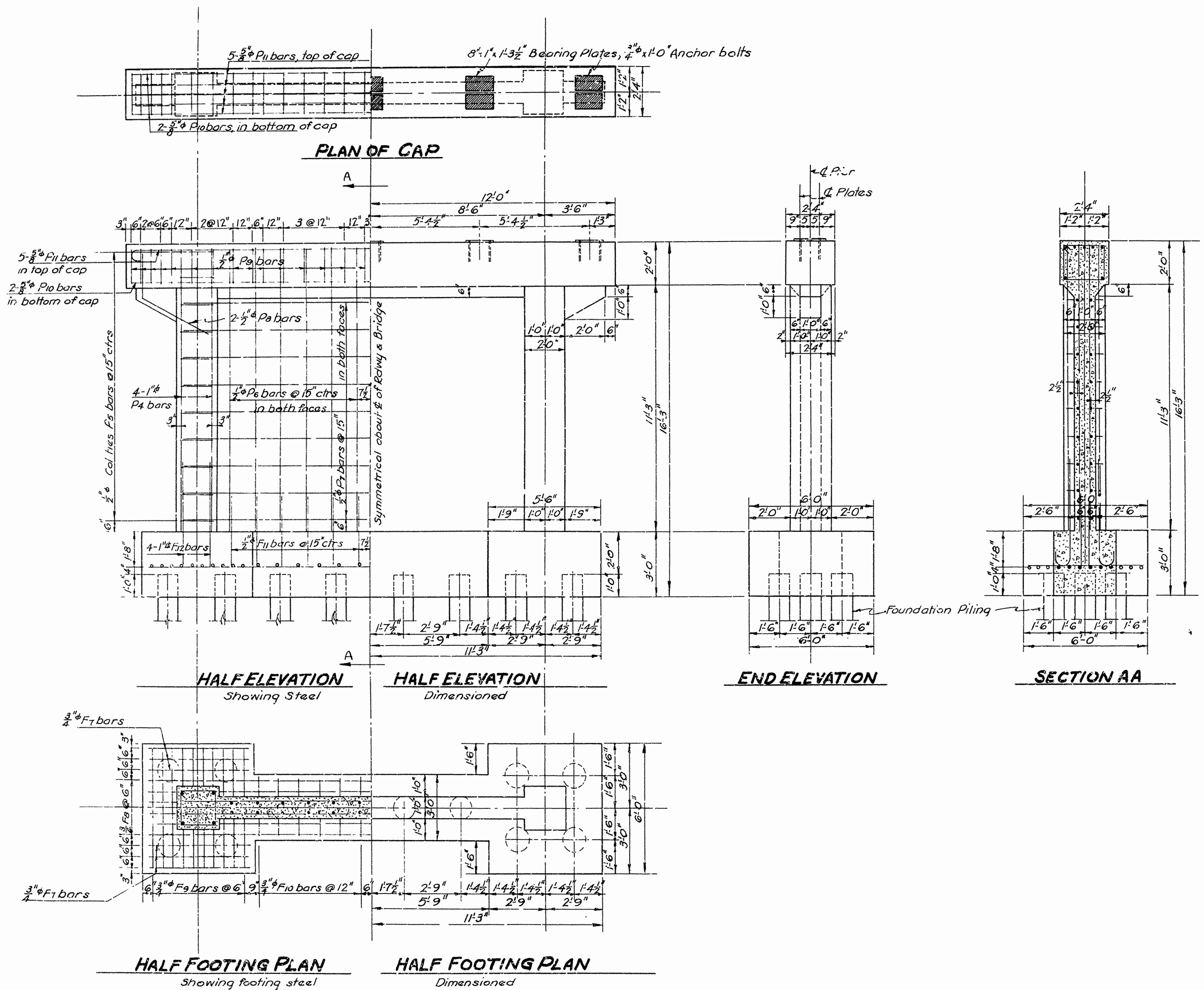
LAYOUT
BRIDGE OVER WILSON CREEK
ON LITTLE RIVER-LOCKSBURG ROAD
SEVIER COUNTY
ROUTE 71 SEC. 5
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Drawn by: E.B.S. Date: 4-7-34
Traced by: A. Date: 4-12-34
Checked by: Date:
BRIDGE NO. 1708
Scale: 1"=10'
DRWG NO. 3784

N.B. Lawer
BRIDGE ENGINEER

FED. ROAD DIST. NO.	STATE	U.S. PUB. WORKS PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.	N.R.H. 311-D	1934	14	17

Job No. 3166



Mark	Size	Length	A	B	Bending Diagram
F12	1" ϕ	6'-1"			
P5	5/8" ϕ	7'-3"	1'-7 1/2"	1'-7 1/2"	
P9	1/2" ϕ	7'-11"	1'-7 1/2"	1'-11 1/2"	
P13	1/2" ϕ	5'-6"			
P11	5/8" ϕ	24'-9"			

GENERAL NOTES:
All concrete to be Class 'A'.
All exposed corners to have 3/4" unless otherwise shown.
Foundation piling to be of Untreated Timber.
For Details of Superstructure, See Div. No. 2153

DETAILS OF PIERS
FOR BRIDGES OVER LITTLE BELLEVILLE, BIG BELLEVILLE, WINTERS & WILSON CREEKS
LITTLE RIVER-LOCKSBURG ROAD
SEVIER COUNTY
ROUTE 71 SEC. 5

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
Drawn By: E.B.S. Date: 4-6-34
Traced By: Date: 4-9-34
Checked By: Date: 1863, 1321, 1707 & 1708
Scale: 3/8" = 1'-0"
DRAWING No. 3789

W.B. Barber
BRIDGE ENGINEER

DATE RECALC
DATE RECALC
DATE RECALC
DATE RECALC

FED. ROAD NO.
6

STATE
ARK.

FED. AID PROJ. NO.
3944

SHEET NO.
5

TOTAL SHEETS
29

268

1708 R QUANT. 26104

SCHEDULE OF BRIDGE QUANTITY-JOB NO. 3944

BRIDGE NO.	CODE NO.	NAME PLATE TITLE	ITEM NO.	801	SP & 802	* SP & 802	803	804	** SP & 805	812	SP & 816	SP & 816	SP JOB 3944
			ITEM	COMMON EXCAVATION FOR STRUCTURES BRIDGE	CLASS 5 CONCRETE	CLASS 5(AE) CONCRETE	BOILED LINSEED OIL	REINFORCING STEEL (GRADE 60)	PRECAST CONCRETE PILING (16" OCT. or 14" SQ.)	BRIDGE NAME PLATES (TYPE C)	DUMPED RIPRAP	FILTER BLANKET	REMODELING EXISTING BENTS
			UNIT	CU. YD.	CU. YD.	CU. YD.	GAL.	LB.	LIN. FT.	EACH	CU. YD.	SQ. YD.	LUMP SUM
1708 R	X020	WILSON CREEK	BENT 1	100	38.59			4052	160	1	85	170	
			BENT 2	115	31.32			3124	160				
			BENT 3	134	38.59			4052	160		85	170	
			2-31'-3" R.C. SLAB SPANS			177.10	7.1	28162					
			TOTALS FOR JOB 3944	349	108.50	177.10	7.1	39390	480	1	170	340	1.0

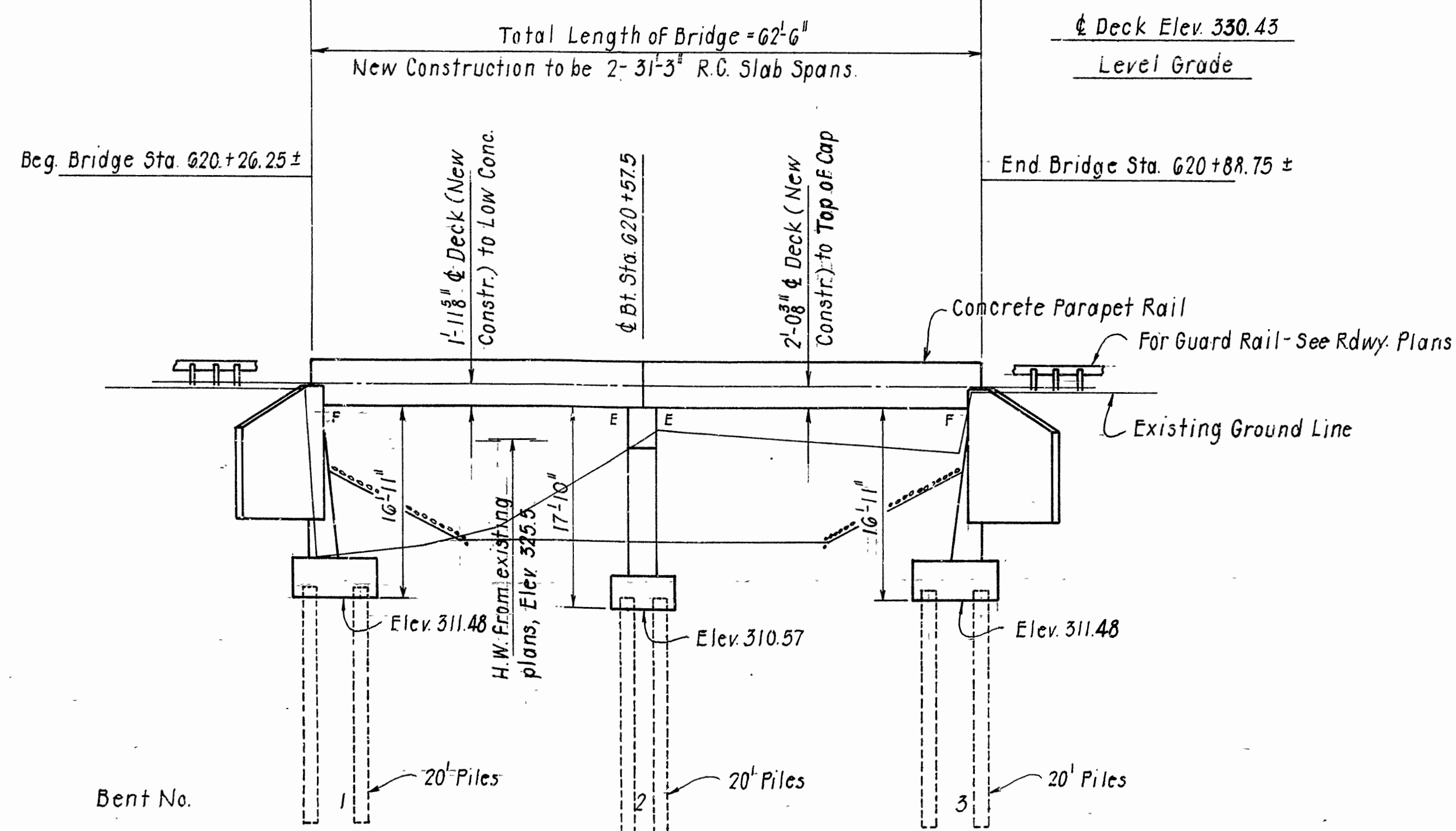
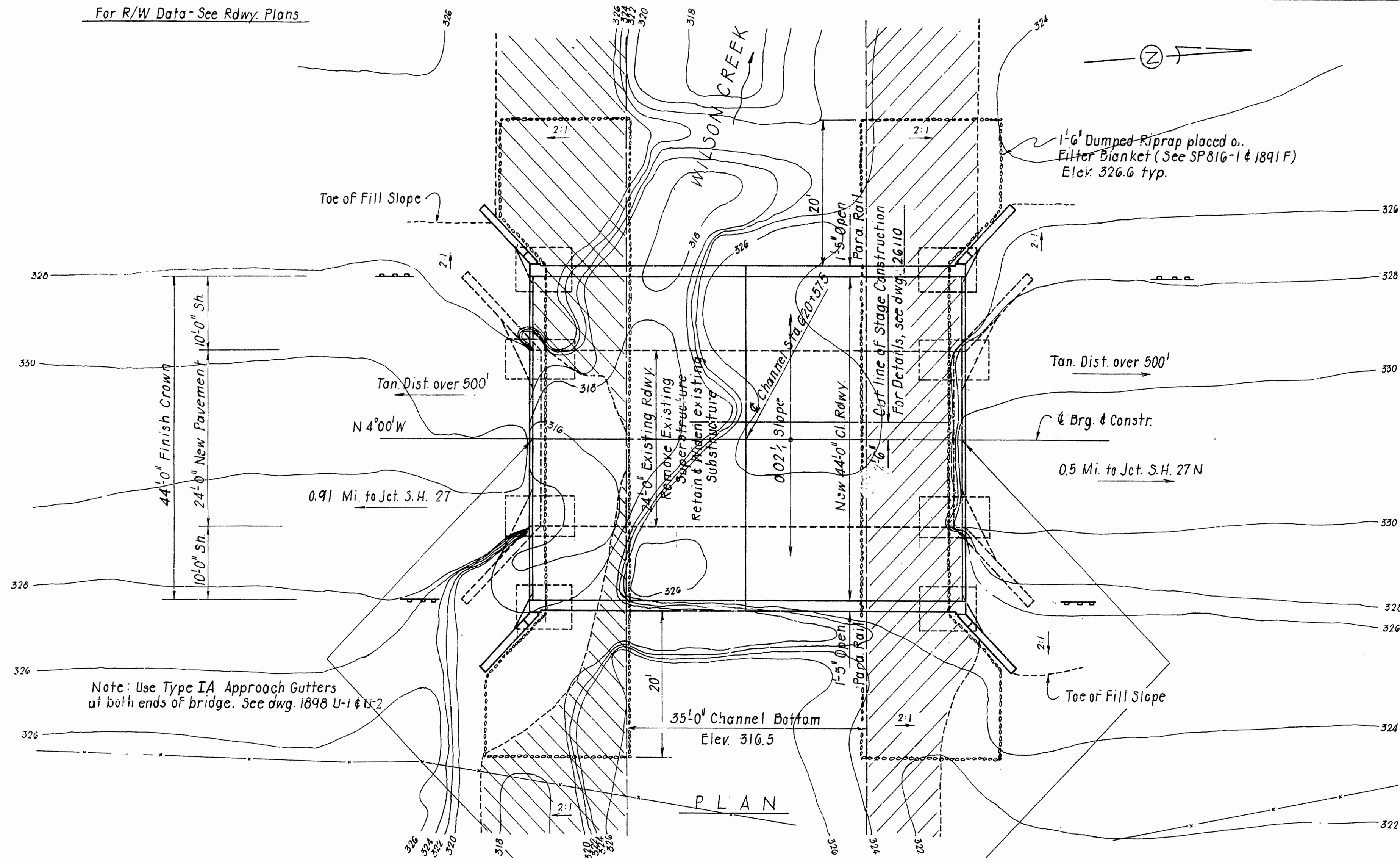
* Refers to SP 807-10 also includes SP 802-5
** Refers to SP 802-5

SCHEDULE OF BRIDGE QUANTITIES
WILSON CREEK BRS. & APPRS.
SEVIER COUNTY
ROUTE 71 SEC. 5
ARKANSAS STATE HIGHWAY COMMISSION

DALE F. LOE
DESIGN SQUAD SUPERVISOR

Daryl Pinkerton
BRIDGE ENGINEER

LITTLE ROCK, ARK.
DRAWN BY: L.M. DATE: 7-6-83
CHECKED BY: H.D. DATE: 7-12-83 SCALE: None
DESIGNED BY: DATE:
BRIDGE NO. 1708 R DRAWING NO. 26104



ELEVATION
D.A. 3.6 Sq. Mi.

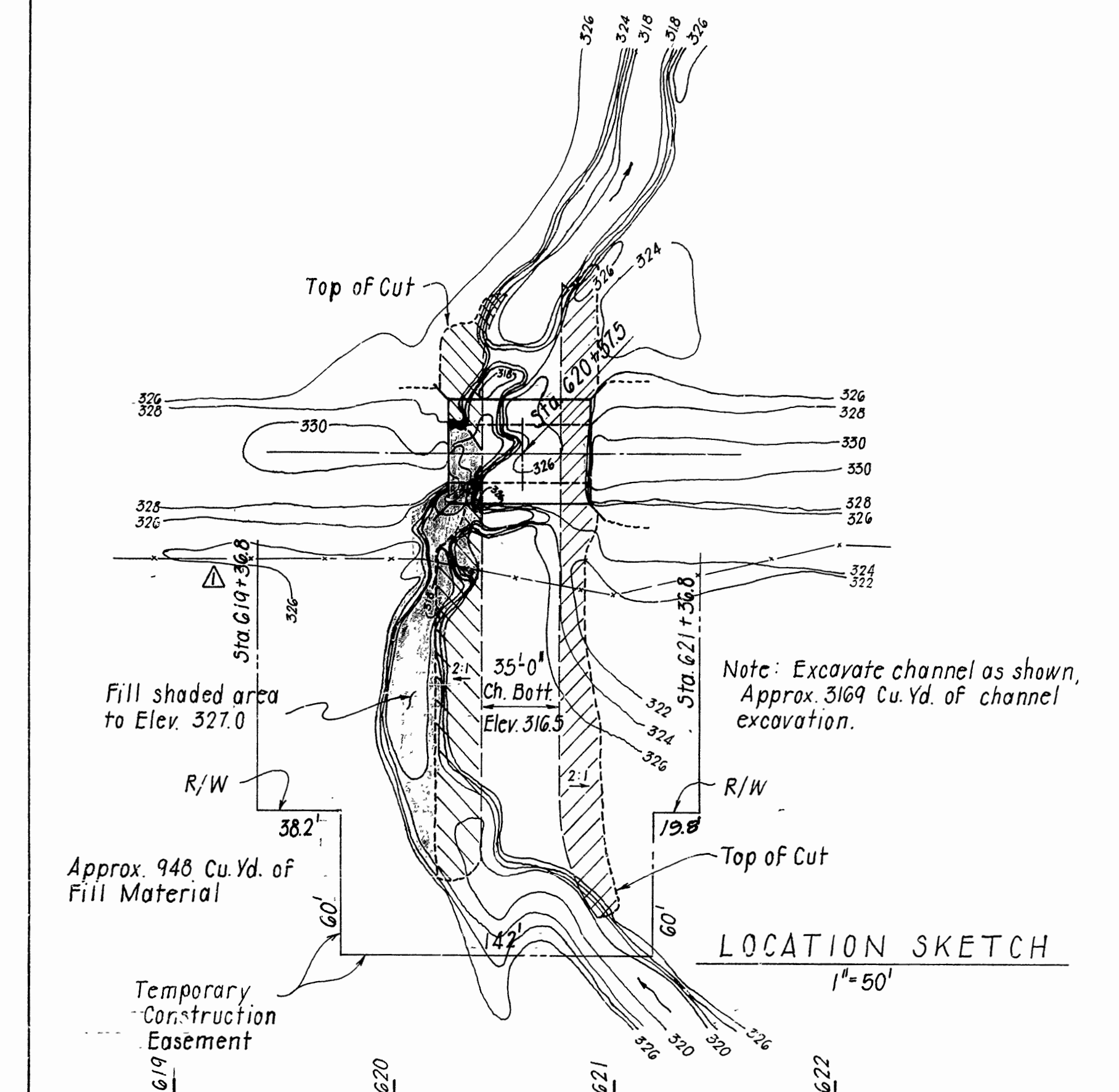
NOTE: THE FOLLOWING ITEMS SHALL BE SALVAGED AND REMAIN THE PROPERTY OF THE STATE. ALL OTHER MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR UPON COMPLETION OF THE PROJECT:

SALVAGE

24"X 7" X 30'-9" I-BEAMS (10 EACH)

△ Revised Stations, 8-23-83, L.M.

DATE REVISED	DATE FILED	DATE REVISED	DATE FILED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
8-23-83	5-8-7-28-83			6	ARK.			
				JOB NO.	3944		8	29
				1708 R	LAYOUT	26105		



GENERAL NOTES

BENCH MARK: PAINTED " " ON TOP CURB S.W. END OF BRIDGE NO. 1708, ELEV. 330.17.

CONCRETE PILING: PILING FOR BENTS 1 THRU 3 SHALL BE 16" OCT. OR 14" SQ. PRECAST CONCRETE AND SHALL BE DRIVEN WITH AN APPROVED AIR, STEAM, OR DIESEL HAMMER TO A MINIMUM BEARING CAPACITY OF 44 TONS PER PILE, AND TO A MINIMUM PENETRATION OF 20 FEET BELOW BOTTOM OF FOOTING ON BENTS 1 THRU 3. LENGTHS OF PILING SHOWN ARE ASSUMED FOR ESTIMATING QUANTITIES ONLY. ACTUAL LENGTHS TO BE DETERMINED IN THE FIELD. DRIVE ONE 25' TEST PILE IN BENTS 1 & 2.

PILE SHAPES SHALL NOT BE MIXED ON ANY BRIDGE.

THE WORK CONSISTS OF REMODELING EXISTING ABUTMENTS AND INTERMEDIATE BENT AND NEW CONSTRUCTION OF SPANS IN STAGES, IN ACCORDANCE WITH THESE PLANS AND SPECIAL PROVISIONS.

ALL DIMENSIONS RELATING TO EXISTING BRIDGE NO. 1708 ARE TO BE VERIFIED IN THE FIELD AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING WIDENING TO EXISTING STRUCTURE.

PLANS OF THE EXISTING STRUCTURE WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST.

FOR DETAILS OF WIDENING BENTS, SEE DWG. NOS. 26106 & 26107

FOR DETAILS OF SPANS, SEE DWG. NOS. 26108 & 26109
FOR STAGE CONSTRUCTION, SEE DWG. NOS. 26108 & 26109

FOR STAGE CONSTRUCTION SEQUENCE, SEE DWG. NO. 26110

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION
EDITION OF 1978 AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1977 WITH CURRENT INTERIM SPECIFICATIONS.

LIVE LOAD: HS20 (NEW CONSTRUCTION)

METHOD OF DESIGN: (NEW CONSTRUCTION) LOAD FACTOR

LAYOUT OF BRIDGE OVER
WILSON CREEK

WILSON CREEK BR. & APPRS.

SEVIER COUNTY

ROUTE 71 SEC. 5

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: L.M. DATE: 5-25-83

CHECKED BY: HJD DATE: 7-12-83

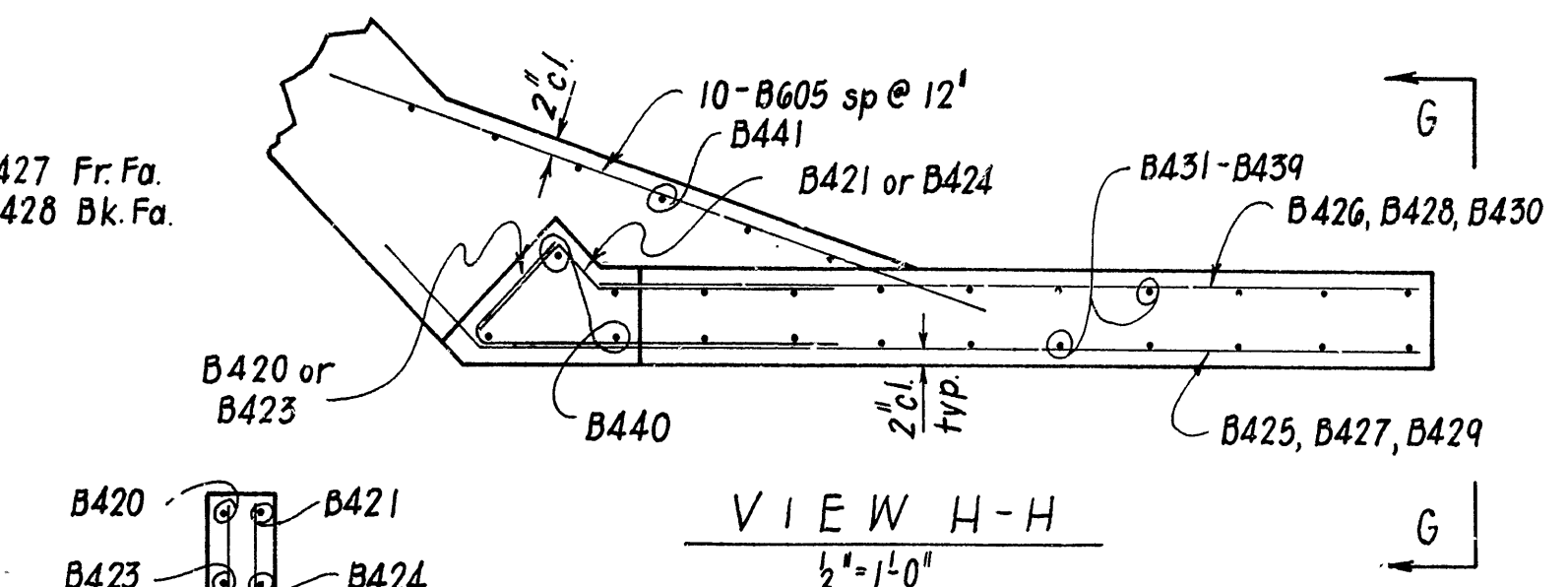
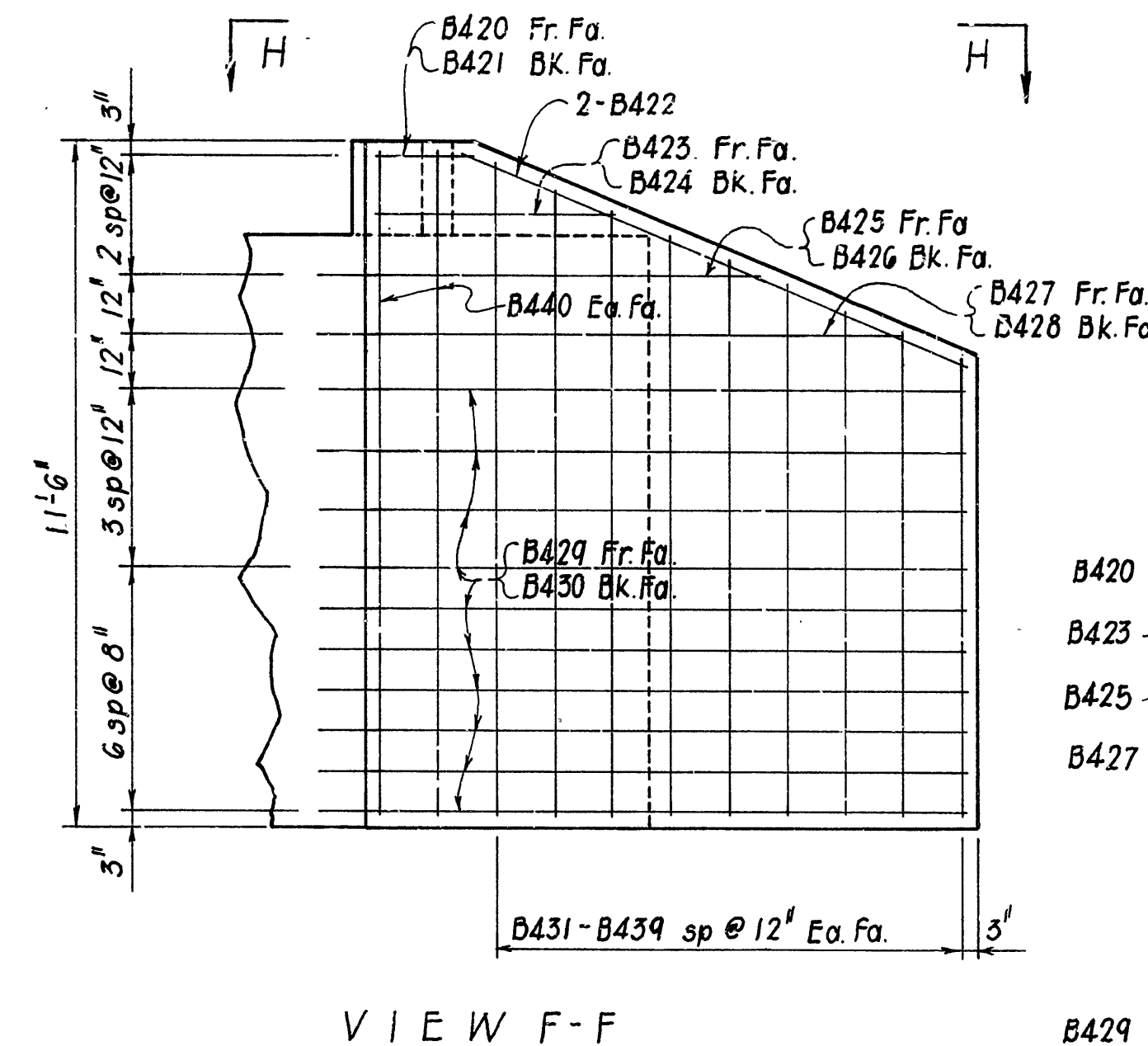
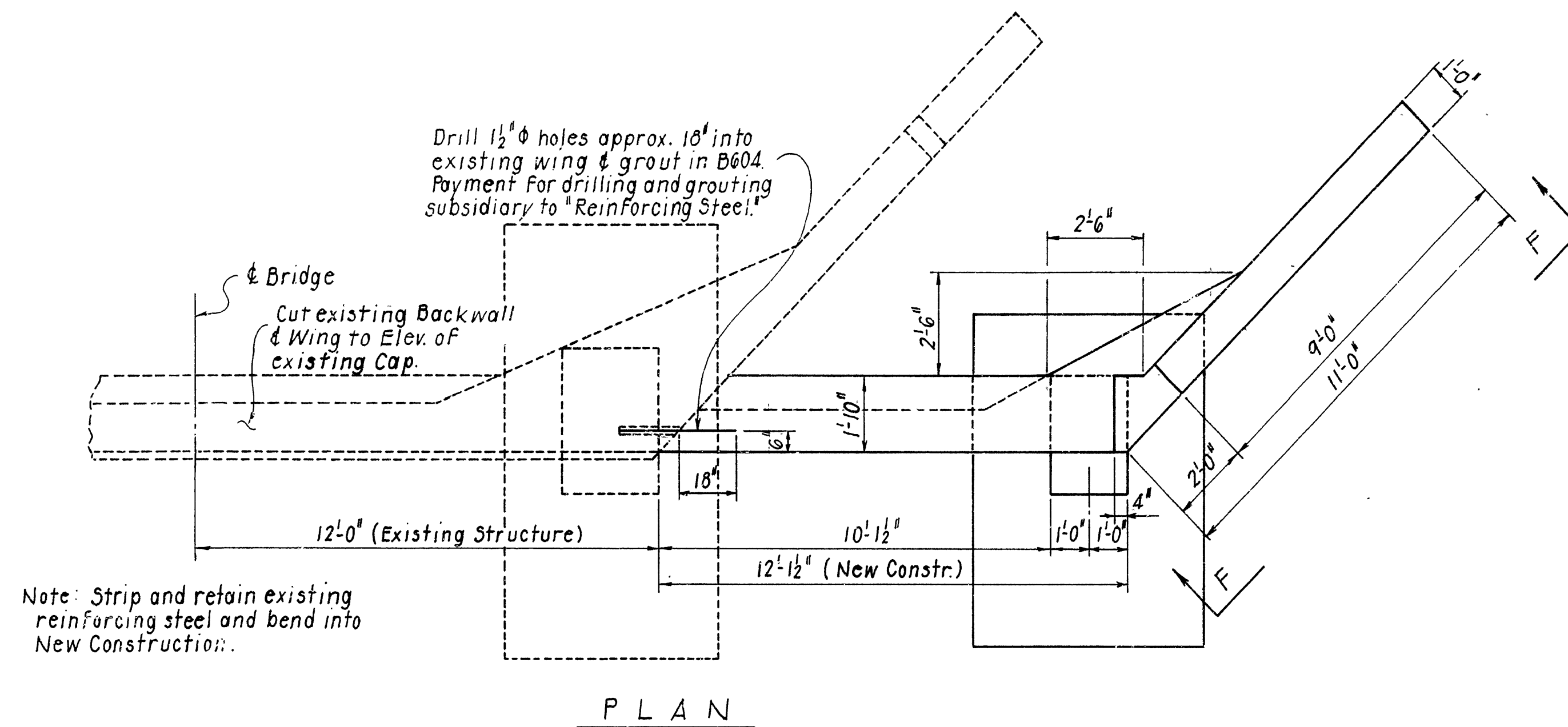
DESIGNED BY: GVA DATE: 5-25-83

SCALE: 1" = 10'

BRIDGE NO. 1708 R

DRAWING NO. 26|05

Veral Pinkerton
BRIDGE ENGINEER



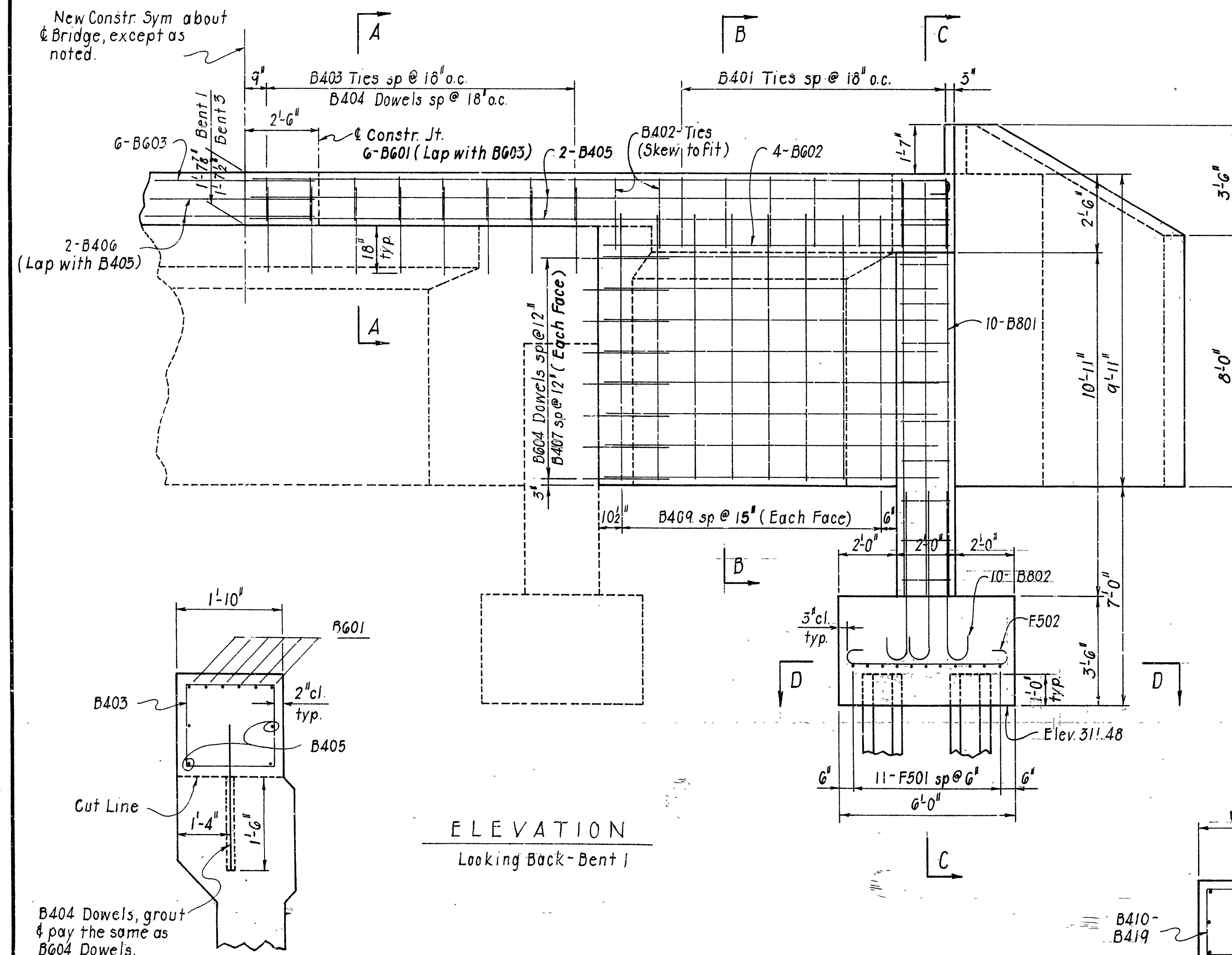
VIEW H-H
 $1/2'' = 1/4''$

BAR LIST-ONE SENT

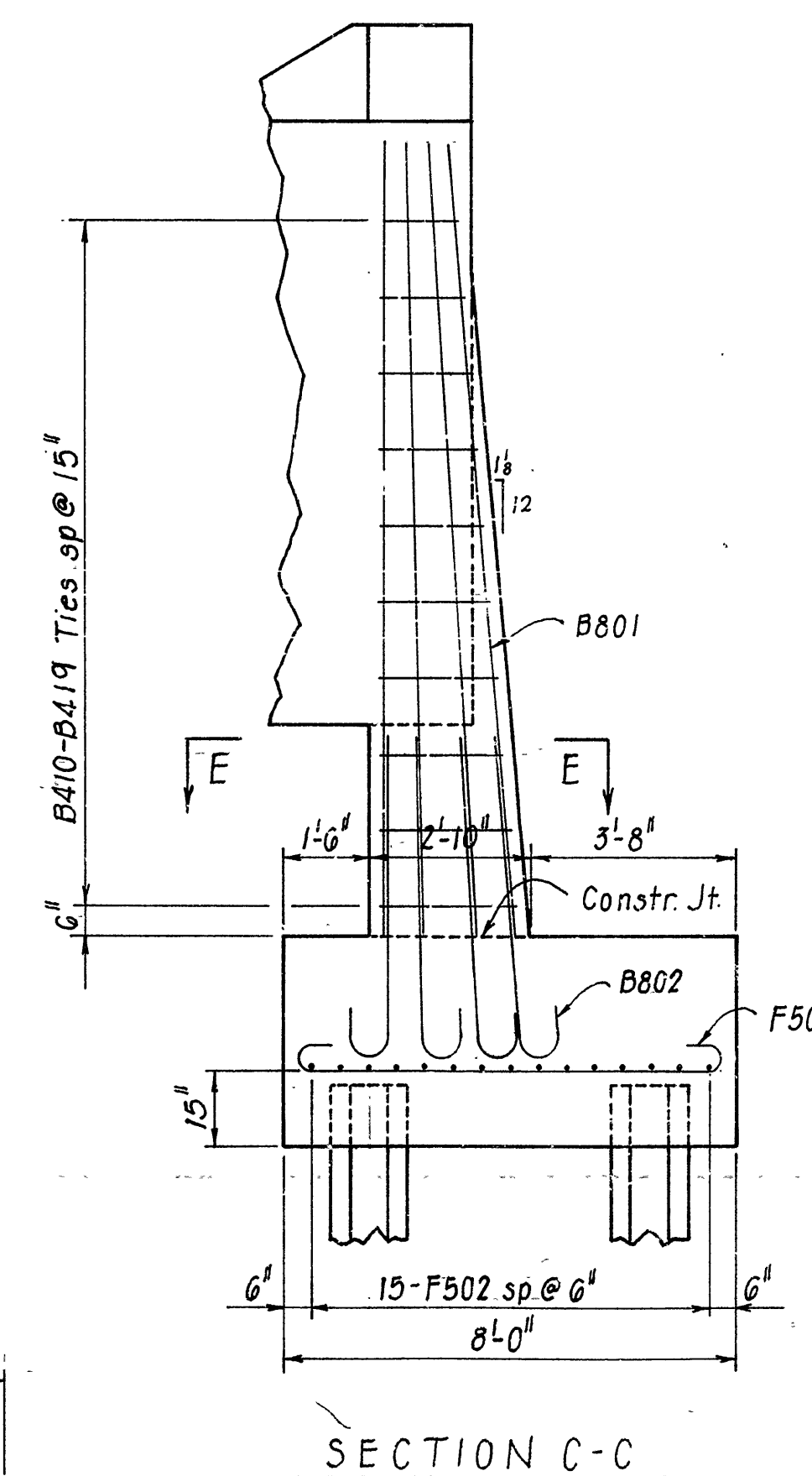
Mark	No. Req'd.	Length	A	B	Pin Dia.	Bending Diagram
B801	20	13'-0"			Str.	
B802	20	6'-5"	5'-6"	8"	6"	
B601	6	24'-6"	23'-10"	6"	4 1/2"	
B602	8	11'-9"			Str.	
B603	6	26'-11"	26'-3"	6"	4 1/2"	
B604	16	3'-0"			Str.	
B605	20	11'-0"			Str.	
F501	22	8'-8"	7'-6"	5"	3 3/4"	
F502	30	6'-8"	5'-6"	5"	3 3/4"	
B401	14	8'-2"	1'-6"	2'-2"	2"	
B402	4	9'-8"	2'-3"	2'-2"	2"	
B403	16	6'-6"	1'-6"	1'-4"	2"	
B404	16	2'-4"			Str.	
B405	4	23'-10"			Str.	
B406	4	26'-3"			Str.	
B407	32	11'-9"			Str.	
B409	32	8'-2"			Str.	
B410 to B419	2 ea.	7'-0" to 9'-0"	1'-8"	1'-5" to 2'-5"	2"	
B420	2	3'-6"	1'-6"	2'-0"	3"	
B421	2	2'-9"	8"	8"	2"	
B422	4	9'-8"			Str.	
B423	2	6'-1"	1'-6"	4'-7"	3"	
B424	2	5'-4"	8"	3'-3"	2"	
B425	2	8'-6"	1'-3"	7'-3"	2"	
B426	2	5'-9"			Str.	
B427	2	11'-9"	1'-3"	9'-10"	2"	
B428	2	8'-4"			Str.	
B429	20	12'-0"	1'-3"	10'-9"	2"	
B430	20	9'-4"			Str.	
B431 to B439	4 ea.	7'-8" to 10'-9"			Str.	
B440	3	11'-2"			Str.	
B441	12	9'-7"			Str.	

Dimens. are out to out of bars

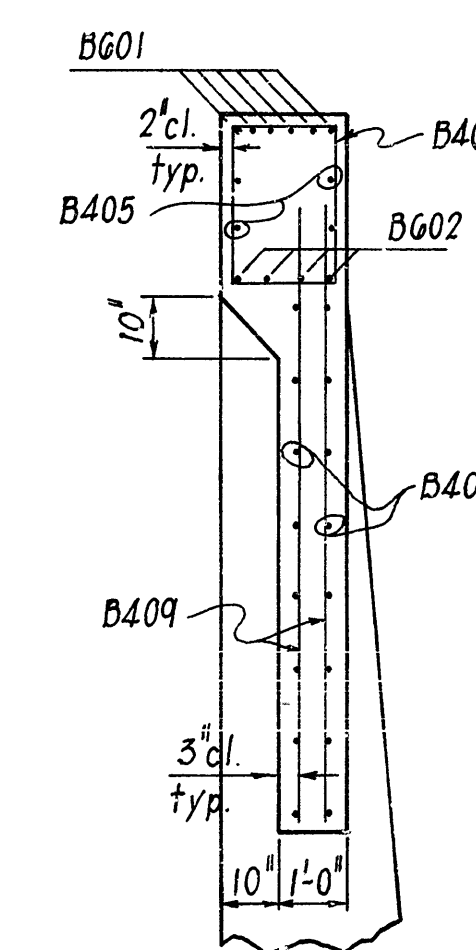
Dimens. are out to out of bars



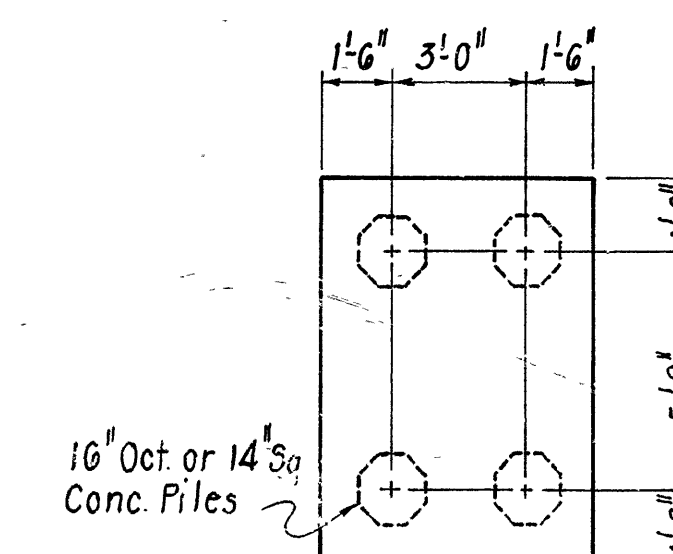
ELEVATION
Looking Back - Bent



SECTION C-C



SECTION B-E



SECTION D-D
 $I^H = 1.0^H$

For General Notes, see dwg. 26107

DETAILS OF ABUT. 1 & 3
WILSON CREEK BRS. & APPRS.
SEVIER COUNTY
ROUTE 71 SEC. 5

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: L.M. DATE: 6-13-83
CHECKED BY: HJD DATE: 7-12-83
DESIGNED BY: GVA DATE: 6-13-83

$\therefore \frac{3}{8} = 1 - 0$ or as shown

BRIDGE NO. 1708 R DRAWING NO. 26106

Verbal Pinkerton
BRIDGE ENGINEER

BAR LIST

GENERAL NOTES:

ALL CONCRETE TO BE CLASS S AND SHALL BE POURED IN THE DRY. ALL EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL TO BE ASTM A615 OR A617, GRADE 60.

SHOP LISTS AND BENDING DIAGRAMS MAY BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS
FOR HIGHWAY CONSTRUCTION, EDITION OF 1978 AND APPLICABLE SPECIAL PROVISIONS.

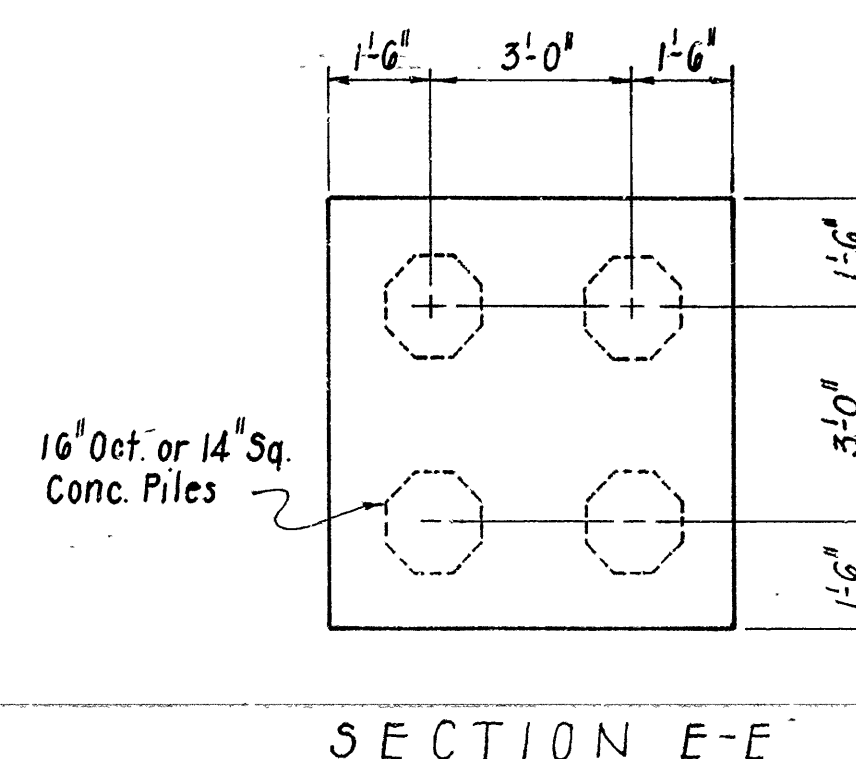
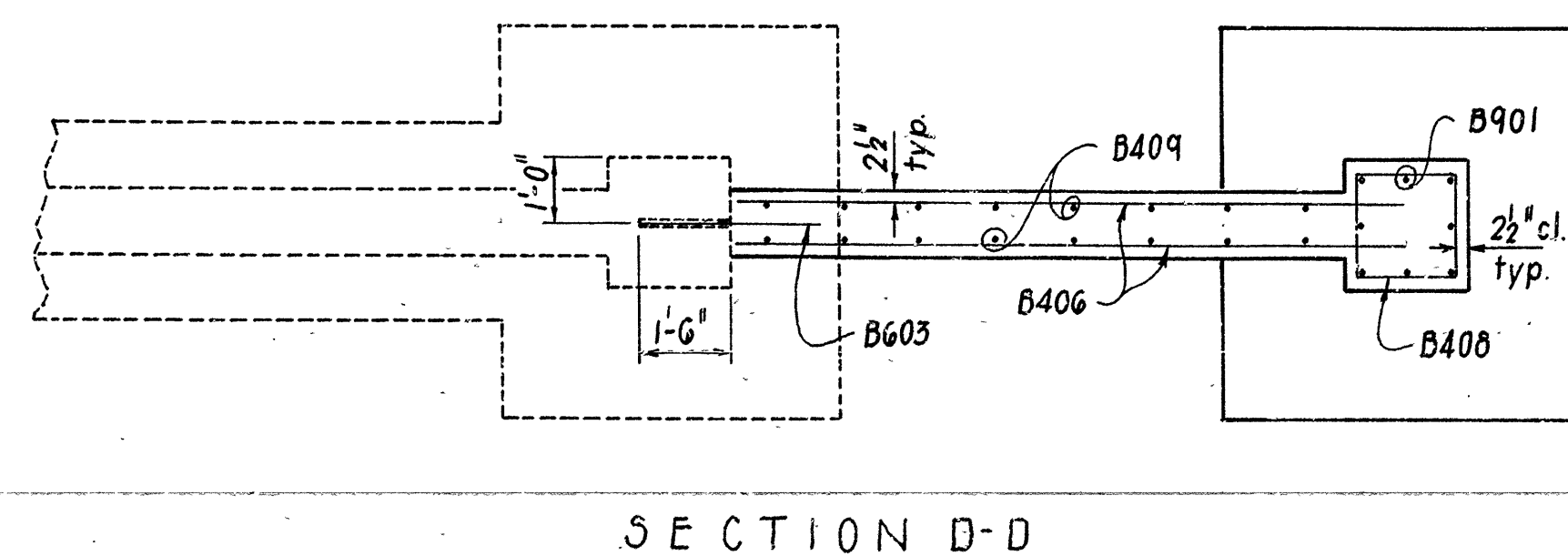
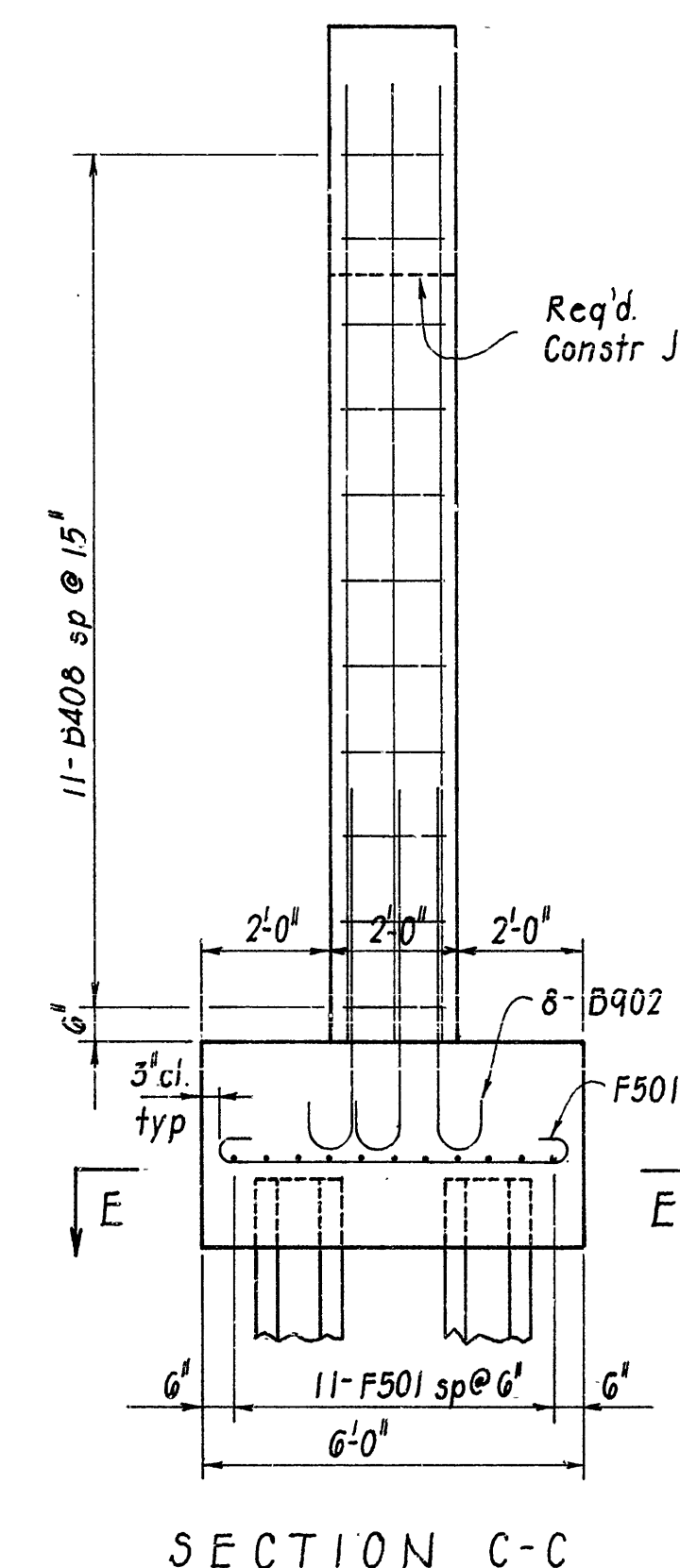
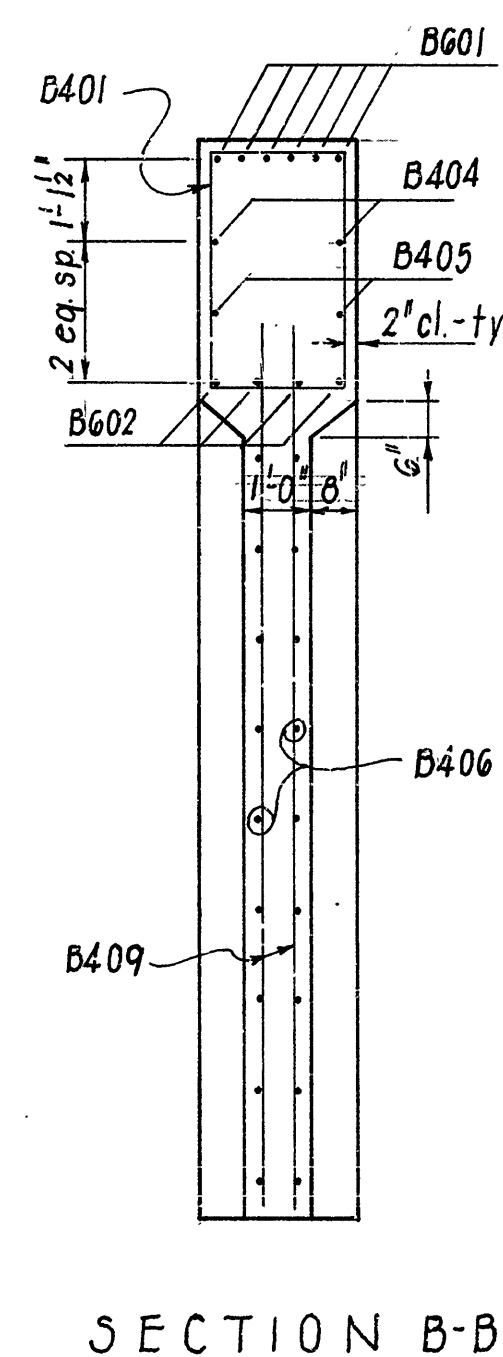
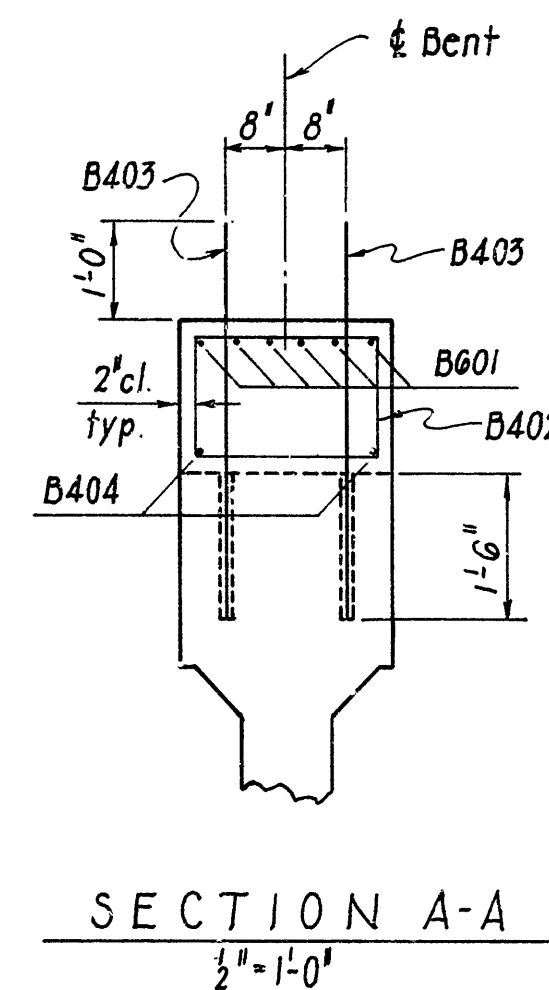
DESIGN SPECIFICATIONS: AASHTO 1977 SPECIFICATIONS FOR HIGHWAY BRIDGES, 1977 WITH CURRENT INTERIM SPECIFICATIONS.

LIVE LOAD: HS 20

METHOD OF DESIGN: LOAD FACTOR

CONCRETE STRENGTH; MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3500$ PSI
REINFORCING STEEL YIELD STRENGTH $f_y = 60,000$ PSI

FOR CONSTRUCTION PROCEDURE, SEE SP "JOB NO. 3944 REMODELING EXISTING BENTS."



DETAILS OF BENT 2
WILSON CREEK BRS. & APPRS.
SEVIER COUNTY
ROUTE 71 SEC. 5

ARKANSAS STATE HIGHWAY COMMISSION

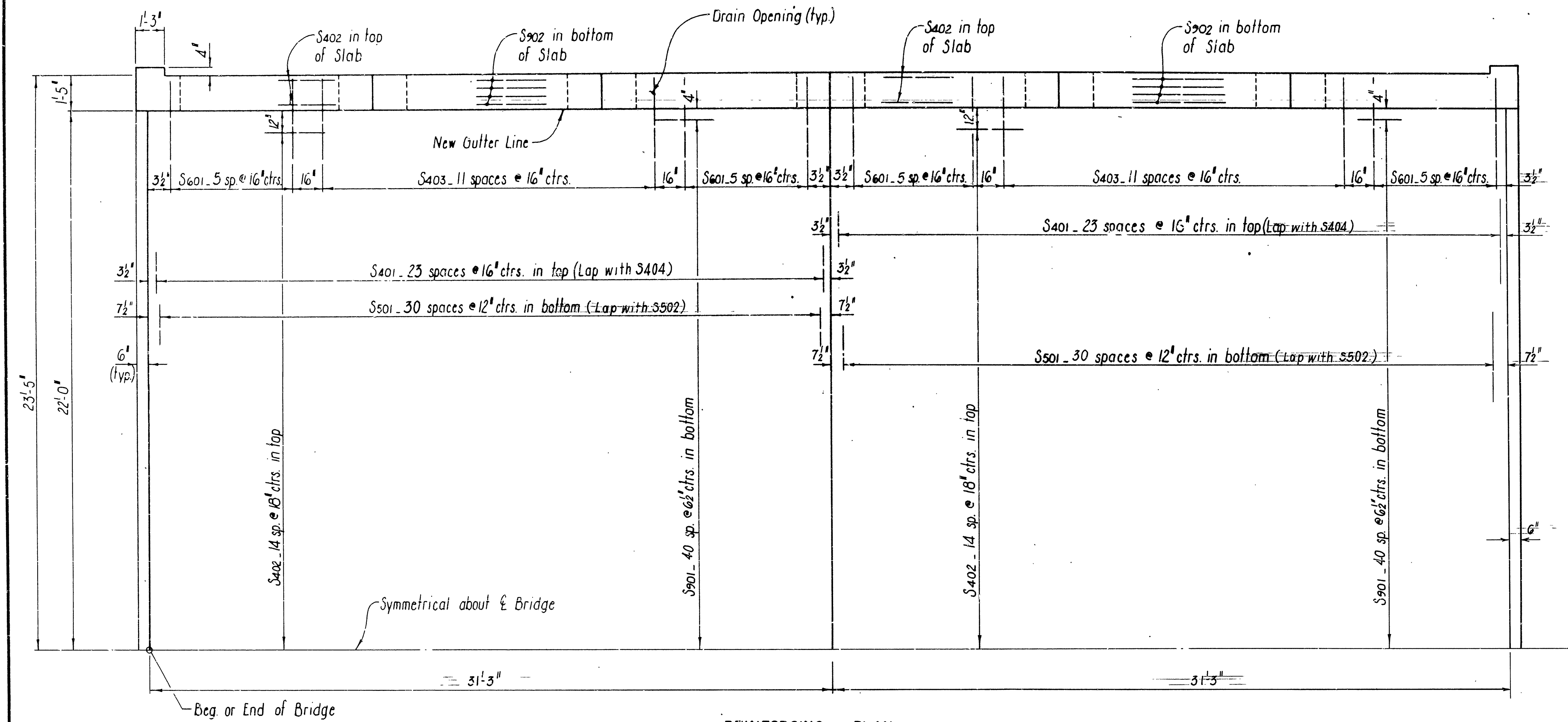
LITTLE ROCK, ARK.

DRAWN BY: L.M. DATE: 6-16-82
CHECKED BY: HJD DATE: 7-12-83 SCALE: $\frac{3}{8}'' = 1'-0''$ or as shown
DESIGNED BY: GVA DATE: 6-16-82

BRIDGE NO. 1708 R DRAWING NO. 26107

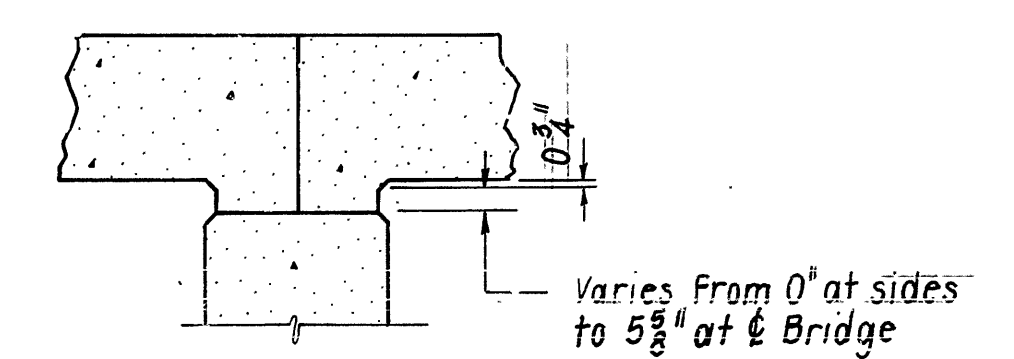
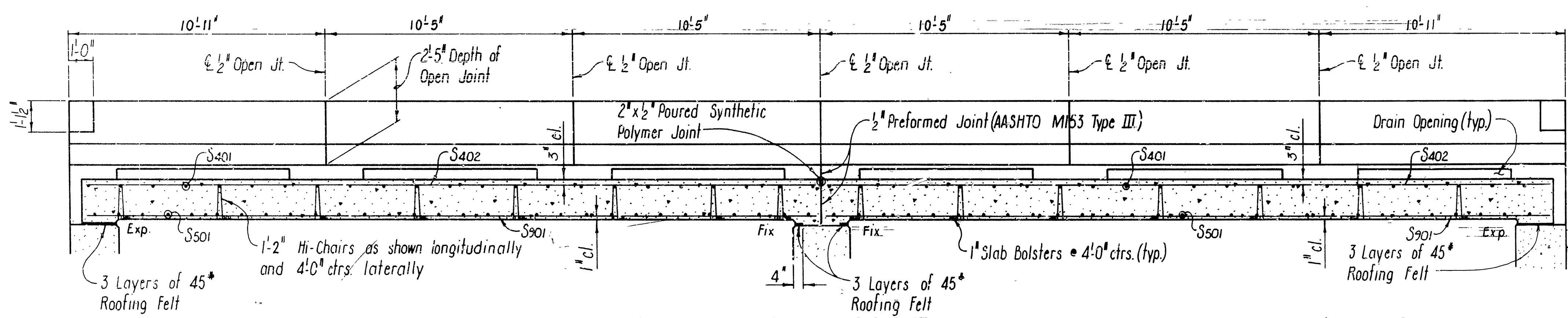
Vera P. Puckett
BRIDGE ENGINEER

DATE	REV.	DATE	REV.	PRO. RECD. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.		11	29
				JOB NO.	1708 R	SPANS	26108	



BAR LIST - EACH SPAN

Mark	No. Req'd./Span		Length	Pin Dia.	Bending Diagrams (Dimensions are out to out of Bars)
	End				
S401	24		20'-9"	Str.	
S402	33		30'-11"	Str.	
S403	24		3'-9"	Str.	
S501	31		20'-9"	Str.	
S601	24		6'-11"	4 1/2"	
S901	81		30'-11"	Str.	
S902	8		31'-5"	Str.	
P401	16		10'-0"	Str.	
P402	2		9'-7"	Str.	
P403	6		10'-7"	Str.	
P404	44		6'-10"	2"	
P405	44		7'-6"	2"	
P406	42		6'-4"	2"	
P407	42		3'-2"	2"	
P408	10		1'-0"	Str.	
P601	20		10'-0"	Str.	
P602	4		9'-7"	Str.	
P603	6		10'-7"	Str.	
P604	6		4'-6"	3 1/2"	
P605	4		8'-1"	3 1/2"	
S404	24		27'-3"	Str.	
S502	31		27'-3"	Str.	



Note: For "General Notes" see Drwg. No. 26109

SHEET 1 OF 2
DETAILS OF 31'-3" R.C. SLAB SPANS
WILSON CREEK BRS. & APPRS.
SEVIER COUNTY
ROUTE 71 SEC. 5
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.
DRAWN BY: KMG DATE: 25 JAN 82
CHECKED BY: HLD DATE: 12 JUL 83 SCALE: AS SHOWN
DESIGNED BY: STD DATE: -
BRIDGE NO. 1708 R DRAWING NO. 26108

Verde Pankratz
BRIDGE ENGINEER

GENERAL NOTES

ALL CONCRETE TO BE CLASS S(AE). EXPOSED CORNERS TO BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 OR A617, GRADE 60. BAR SUPPORTS FOR REINFORCING BARS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL."

ROOFING FELT, BITUMINOUS FELT, PREFORMED JOINT, STRUCTURAL STEEL, AND POURED SYNTHETIC POLYMER JOINTS SHALL BE MEASURED AND PAID FOR AS CLASS S(AE) CONCRETE.

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1978 AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO 1977 WITH CURRENT INTERIMS.

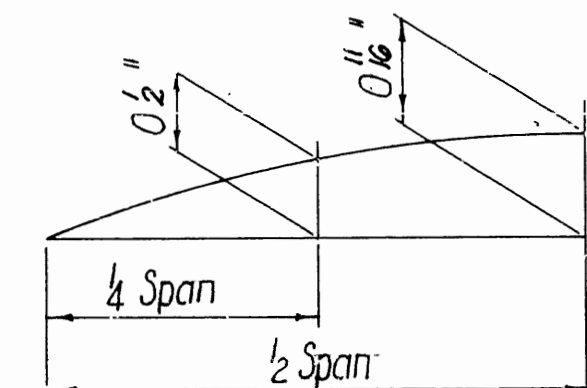
DESIGN LIVE LOADING: HS20

LOAD DISTRIBUTION TO SLAB: * DEAD LOAD 263 PSF; LIVE LOAD -0.172 WHEELS/FT. OF WIDTH PLUS 30% IMPACT.

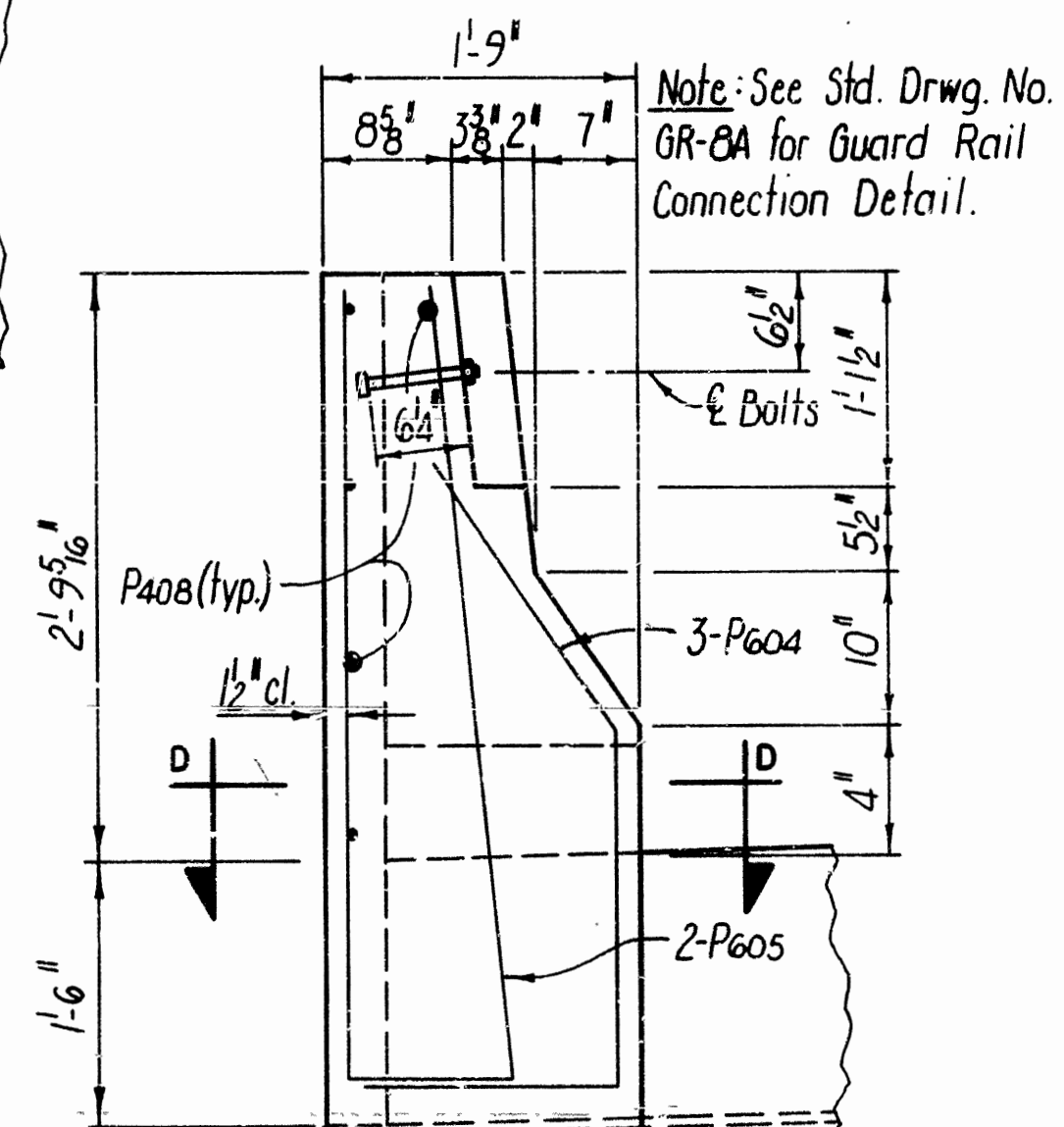
UNIT STRESSES: COMPRESSIVE STRENGTH OF CLASS S(AE) CONCRETE = 3500 PSI.
YIELD STRENGTH OF REINFORCEMENT = 60,000 PSI

LOAD FACTOR USED FOR DESIGN OF SLAB.

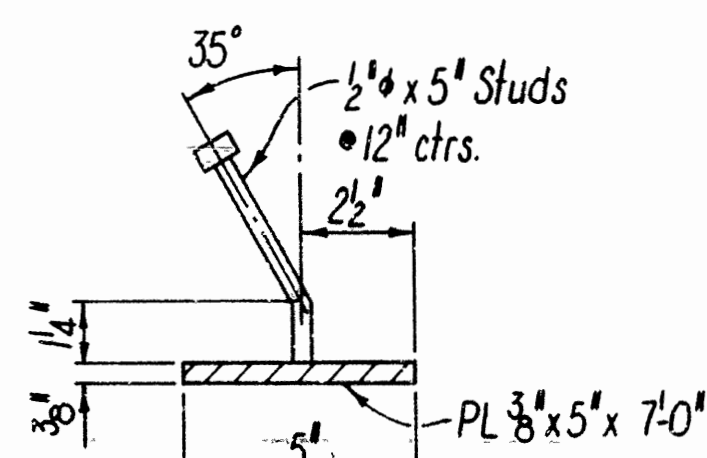
*INCLUDES 24 PSF FUTURE WEARING SURFACE.



DEAD LOAD CAMBER
No Scale



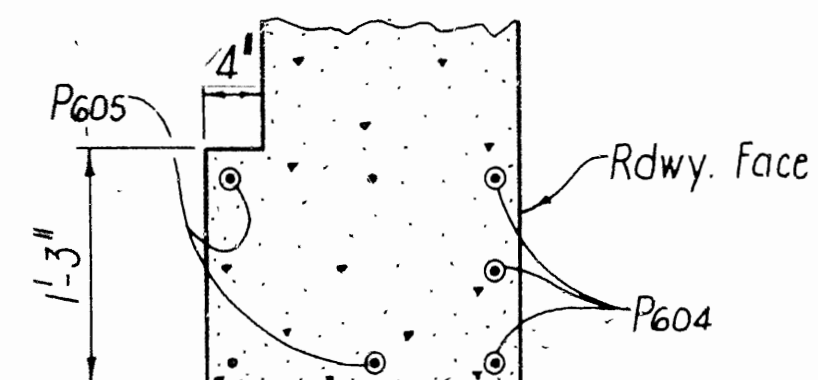
VIEW C-C
N.T.S.



DETAIL "X"
No Scale

NOTE: The surfaces of the 3" plates which will not be in contact with concrete shall receive two coats of paint in the shop. These coats shall be those specified as First Shop Coat and Second Field Coat in sub-section 807.59(a)(4)(c) and SP807-10. Structural Steel shall meet the requirements of Section 07 except as noted.

The 2"x5" Studs shall be granular flux filled, solid fluxed, or equal, and automatically end welded to the 3" plate in accordance with recommendations of the manufacturer. Studs and plate to be measured and paid for as "Class S(AE) Concrete".



SECTION D-D

