

STATE OF ARKANSAS  
STATE HIGHWAY DEPARTMENT

FISCAL YEAR	JOB NO.	SHEET NO.	TOTAL SHEETS
1928	453	1	13

Prep. BRS. HOT SPR. GLENWOOD RD. DR. 951

PLAN OF PROPOSED BRIDGES  
ON  
HOT SPRINGS - GLENWOOD ROAD  
MONTGOMERY COUNTY

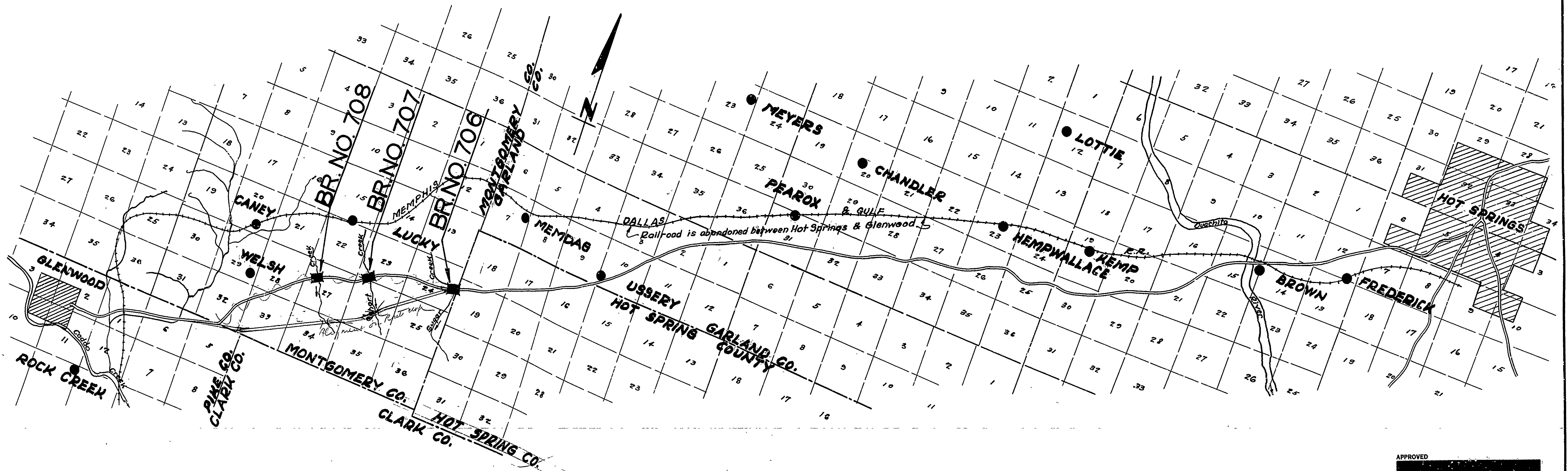
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3	952	DETAILS OF 60' ARCH - Br. 706
4	953	LAYOUT BR. 707-708
5	954	SUBSTRUCTURE DETAILS Br. 707
6	955	SUBSTRUCTURE DETAILS Br. 707
7	1003	STD. 35'-0" R.C.D. GIRDER
8	957	DETAILS ABUT. #1, Br. 708
9	964	DETAILS #2, Br. 708
10		TYPICAL CROSS-SECTION 30' RD.
11		ROAD PLAN - Br. 706 Sheet #11
12		" " - Br. 707 " 14
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ROUTE 70 SEC. 6  
JOB No. 453  
FEDERAL AID PROJECT No.

QUANTITIES

ITEM 12	SOLID ROCK EXCAVATION	425 cu. yds.
12	Loose "	1736 "
12	EARTH EXCAVATION	2833 "
13	DRY EXCAVATION FOR STRUCT.	343 "
13	WET "	105 "
13	Rock "	83 "
17	BORROW	1782 "
54	CLASS 'A' CONC.	404 "
54	CLASS 'S' CONC.	175.3 "
55	REINFORCING STEEL	95531 lbs.
74	CONCRETE RAILING	405 lin. ft.
Spec.	EARTH FILL IN ARCH.	316 cu. yds.



LAYOUT  
Scale: 1" = 1 Mi.

GROSS LENGTH OF PROJECT 2005' = 0.379 Mi.  
NET LENGTH OF PROJECT

APPROVED \_\_\_\_\_  
COMMISSIONER, STATE LANDS, HIGHWAYS AND IMPROVEMENTS

APPROVED \_\_\_\_\_  
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DISTRICT ENGINEER - DISTRICT OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL \_\_\_\_\_  
CHIEF ENGINEER - DISTRICT OF PUBLIC ROADS

APPROVED \_\_\_\_\_  
DIRECTOR - DISTRICT OF PUBLIC ROADS

M.B. [Signature]  
BRIDGE ENGINEER

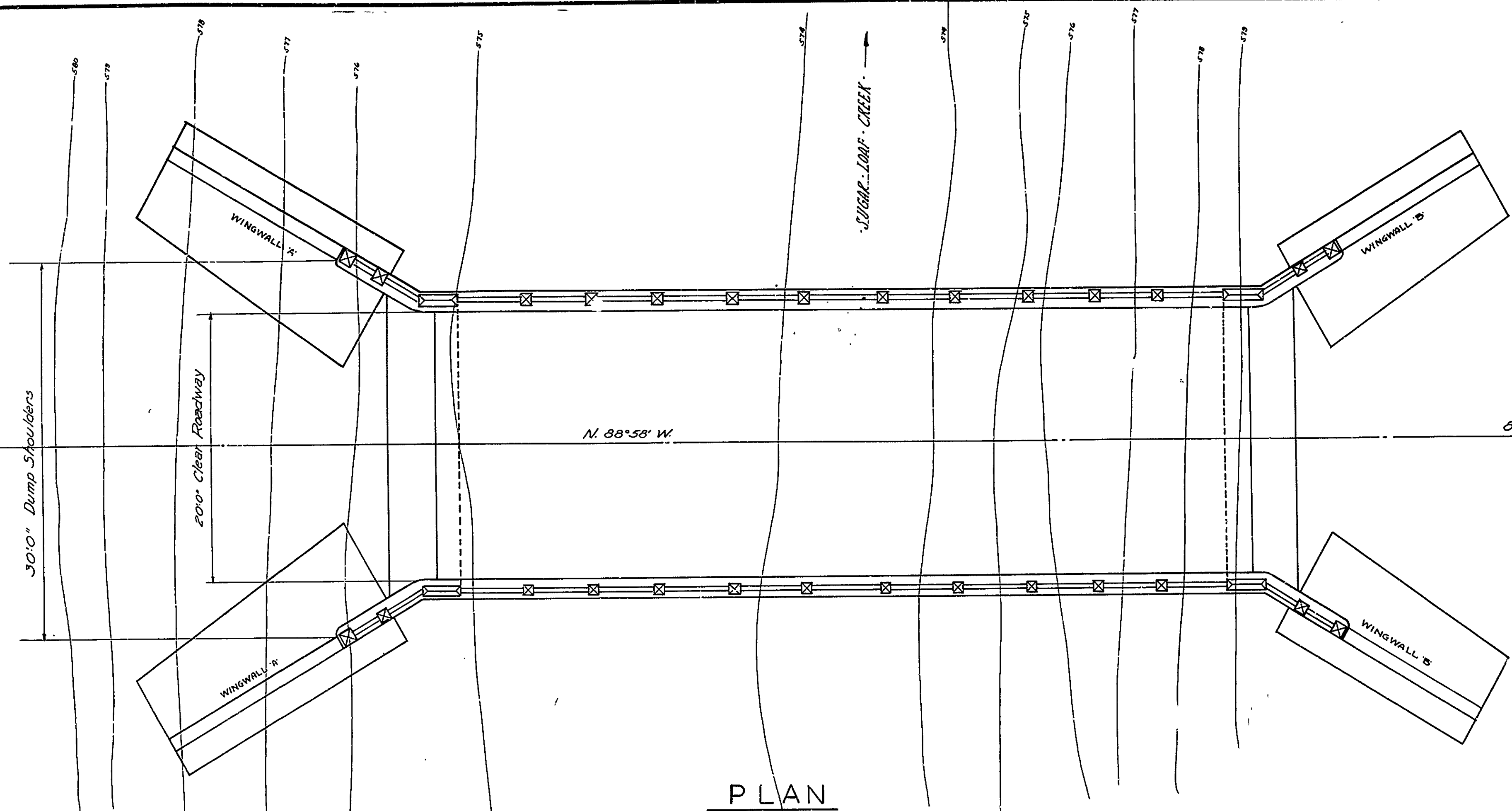
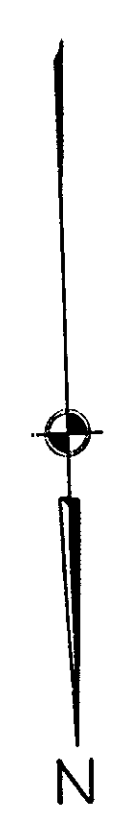
BRIDGE No. 706-707-708 DRAWING No. 951

FISCAL YEAR	JOB No	SHEET	TOTAL SHEETS
1928	453	2	13

FED. ROAD DIST. No.	STATE	FED. AID No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.	236C	1927	81	94

B<sup>o</sup> CREEK, Sugar Loaf Creek, D.R. # 952



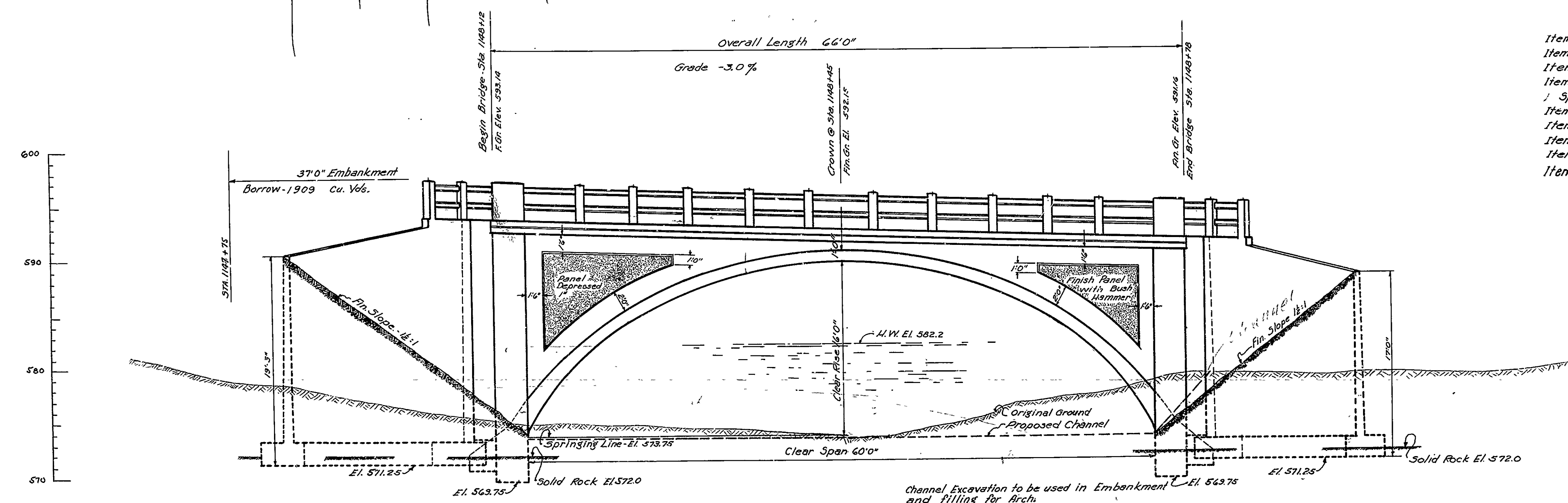
PLAN

**GENERAL NOTES**

All exposed corners to have 3/4" chamfer unless otherwise noted.  
 Precast concrete handrails to be 1.3 Mix. Maximum aggregate 1/2". Rail Posts to be class 'S' Concrete.  
 Reinforcing Steel to be deformed bars of Structural or Intermediate Grade. Shop Lists and Bending Diagrams to be submitted for approval, before fabrication is begun.  
 All concrete except Arch Ring and Handrail to be Class 'A'. Arch Ring, above Construction Joint of Springing Line to be Class 'S'. All Concrete shall be poured in the dry.  
 In filling spandrel, the Earth shall be applied to both ends of bridge equally, and finish filling at crown.  
 Specifications Arkansas Standard Road and Bridge Specifications Adopted May 30th, 1928, with Revisions.  
 Water proofing materials to be included in price bid for concrete.

**ESTIMATED QUANTITIES**

Item No. 12 Earth Excavation (Channel)	707	cu. Yds.
Item No. 13 Dry Excavation	84	cu. Yds.
Item No. 13 Wet Excavation	105	cu. Yds.
Item No. 13 Rock Excavation	35	cu. Yds.
Spec. Prov. Earth Fill in Arch	316	cu. Yds.
Item No. 54 Class 'A' Concrete	205	cu. Yds.
Item No. 54 Class 'S' Concrete	74	cu. Yds.
Item No. 55 Reinforcing Steel	46841	Lbs.
Item No. 74 Precast Conc. Rail	147	lin. Ft.
Item No. 17 Borrow	1202	cu. Yds.



ELEVATION

**NOTES**

Drainage Area - 10 Sq. Miles, Hilly  
 Bench Mark - Nail in Roof 234 Pine 45' Left Sta 1148+00, El. 576.12  
 For Details, see Dwg. No. 953 Sheet No. 3

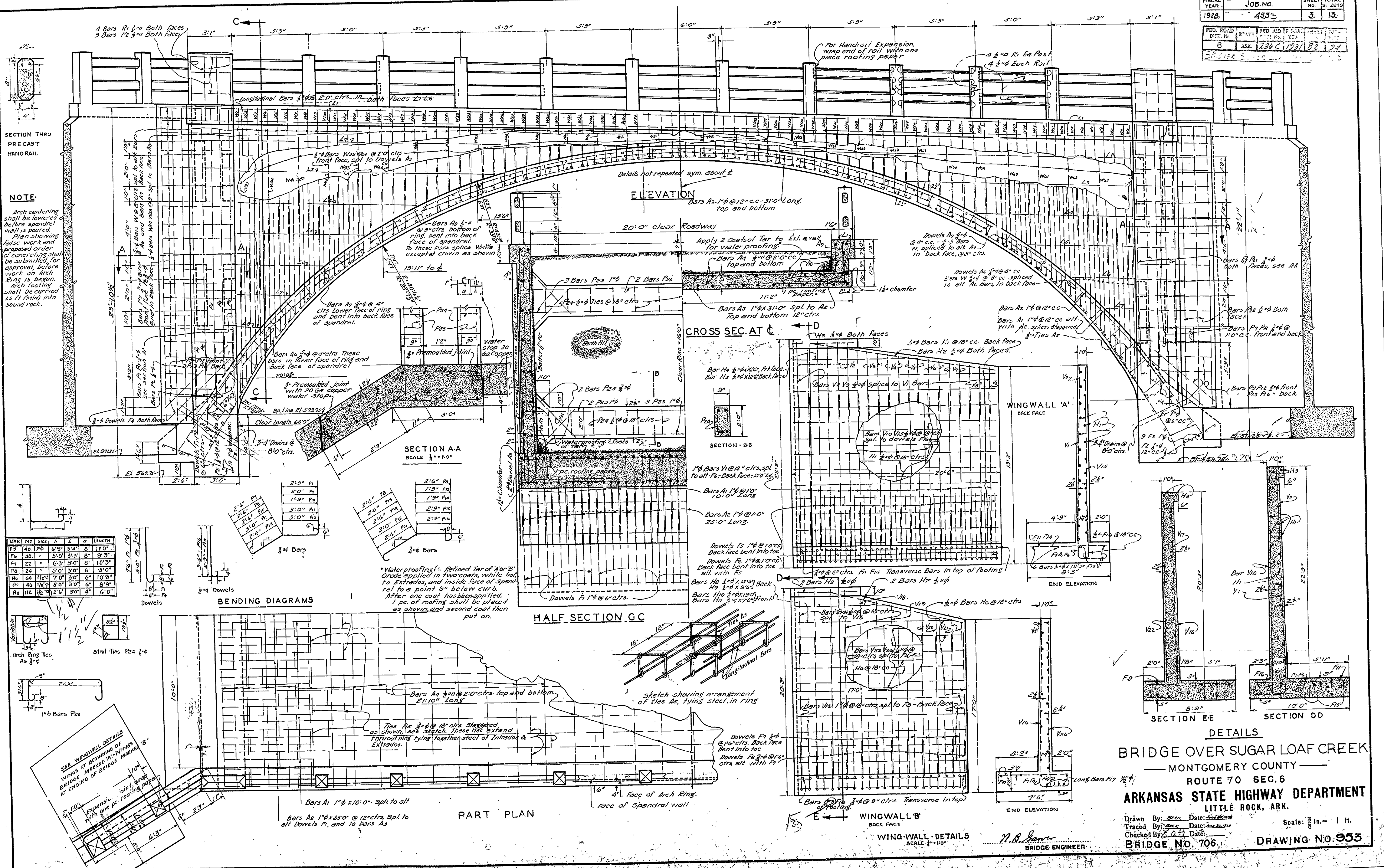
**LAYOUT**

BRIDGE OVER SUGAR LOAF CREEK  
 MONTGOMERY COUNTY  
 ROUTE 70 SEC. 6  
 ARKANSAS STATE HIGHWAY DEPARTMENT  
 LITTLE ROCK, ARK.  
 Drawn By: *W. B. Swann* Date: June 26, 1928  
 Traced By: *W. B. Swann* Date: June 27, 1928  
 Checked By: *W. B. Swann* Date: \_\_\_\_\_  
 BRIDGE No. 706 DRAWING No. 952  
 Scale: 1 in. = 60 ft.

*W. B. Swann*  
 BRIDGE ENGINEER



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**NOTE:**  
 Arch centering shall be lowered before spandrel wall is poured. Plan showing false work and proposed order of concreting shall be submitted for approval before work on arch ring is begun. Arch footing shall be carried to firm ground into sound rock.

BAR NO.	SIZE	A	L	LENGTH
P3	40 1/2"	6'9"	3'3"	8' 11'0"
P4	40 "	5'0"	3'3"	8' 9'3"
P7	22 "	6'3"	3'0"	8' 10'3"
P8	24 "	5'0"	3'0"	8' 3'0"
RL	64 5/8"	7'0"	3'0"	6' 10'9"
AL	46 1/2"	5'0"	3'0"	6' 8'9"
AL	112 1/2"	2'6"	3'0"	4' 6'0"

**BENDING DIAGRAMS**

**SECTION A-A**  
 SCALE 3/4" = 1'-0"

**HALF SECTION G-C**

**PART PLAN**

**SECTION - B-B**

**WINGWALL 'B'**  
 BACK FACE  
 SCALE 3/4" = 1'-0"

**DETAILS**  
 BRIDGE OVER SUGAR LOAF CREEK  
 MONTGOMERY COUNTY  
 ROUTE 70 SEC. 6

**ARKANSAS STATE HIGHWAY DEPARTMENT**  
 LITTLE ROCK, ARK.

Drawn By: *Deer* Date: *2/27/31*  
 Traced By: *Deer* Date: *2/27/31*  
 Checked By: *D. J.* Date: *2/27/31*  
 BRIDGE NO. 706. DRAWING NO. 953

*N. R. Deer*  
 BRIDGE ENGINEER