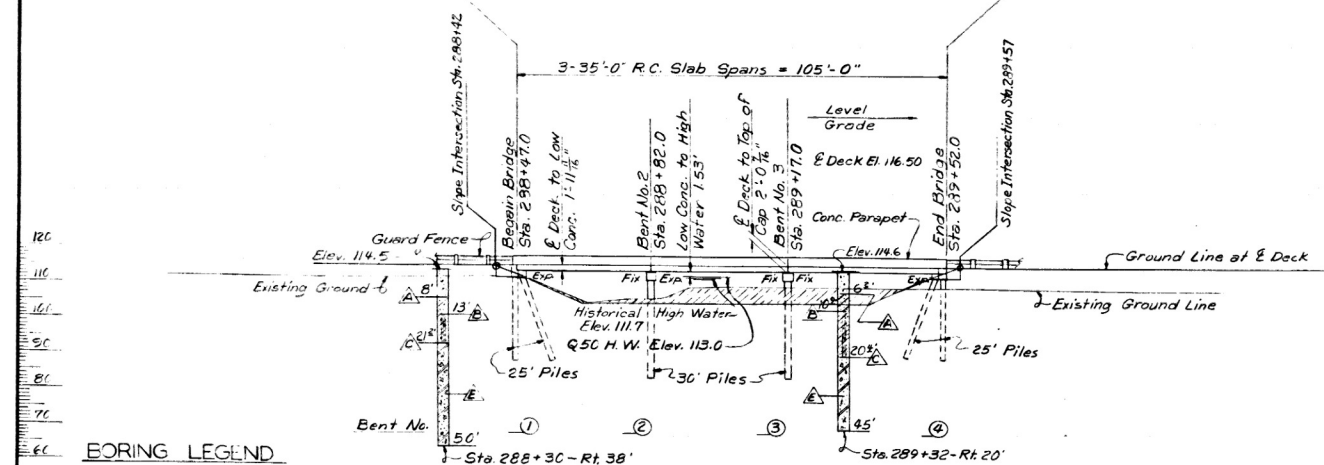
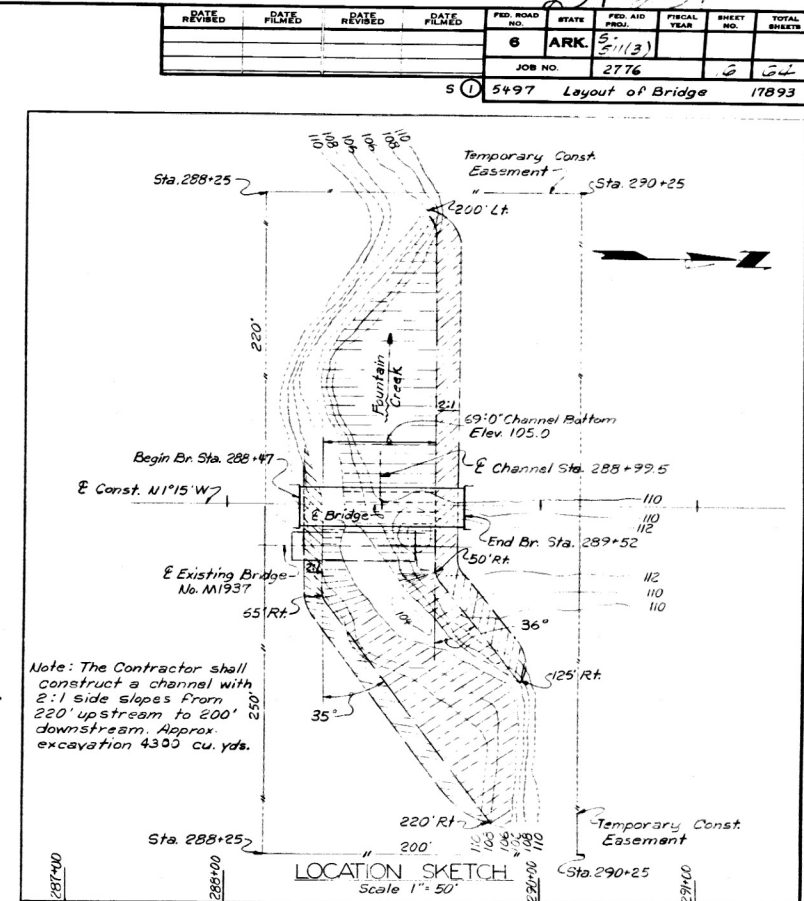






NOTE:  
THE CONTRACTOR SHALL REMOVE THE FOLLOWING EXISTING  
BRIDGE:  
M 1937 - 78' BRIDGE, 30' RIGHT STA. 288+44 TO STA. 289+22.  
SIX SPANS, TIMBER STRINGERS WITH TIMBER DECK ON TIMBER  
BENTS.

The existing bridge shall be used as a detour bridge and removed after the new bridge is open to traffic. All material from the existing bridge shall become the property of the Contractor.



### BORING LEGEND

- A  Brown Sandy Clay & Gravel
- B  Med Firm Brown Sandy Clay & Gravel
- C  Firm Brown Sandy Clay & Gravel, Wet
- E  Firm Blue Clay & Gravel

ELEVATION \_\_\_\_\_

D.A. = 19.4 Sq. Miles  
50 year frequency Discharge = 6000 c.f.s. at Elev. 113.0

GENERAL NOTES:

BENCH MARK - N.I.S. 18" OAK, 51' LT. STA. 286+42, ELEV. 112.55.

ALL CONCRETE SHALL BE POURED IN THE DRY.

ALL PILING SHALL BE 16" OCTAGONAL 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 THE GROUND LINE. LENGTHS OF PILING SHOWN ARE ASSUMED FOR ESTIMATING QUANTITIES ONLY. ACTUAL LENGTHS TO BE DETERMINED IN THE FIELD. DRIVE ONE 35' TEST PILE IN BENT NO. 3.

PILES IN END BENTS TO BE DRIVEN AFTER EMBANKMENT TO SUBGRADE IS IN PLACE.

FOR DETAILS OF BENTS, SEE DWG. NO. 14935A.

FOR DETAILS OF 35' R.C. SLAB SPANS, SEE DWG. NO. 14934  
FOR DETAILS OF PRECAST CONCRETE PILING, SEE DWG. NO. 14935

FOR DETAILS OF PRECAST CONCRETE PILING, SEE DWG. NO. 2382

SPECIFICATIONS: ARKANSAS STATE HIGHWAY COMMISSION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EDITION OF 1972, AND APPLICABLE SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHO 1969  
LIVE LOADING: HS20

UNIT STRESSES: CLASS S CONCRETE (N=10) 1,200 PSI  
REINFORCING STEEL 20,000 PSI

LAYOUT OF BRIDGE  
OVER FOUNTAIN CREEK  
FOUNTAIN HILL - SOUTHWEST  
BRIDGES & APPROACHES  
ASHLEY COUNTY  
**ROUTE 133 SEC. 2**

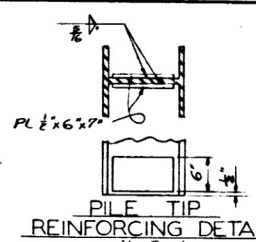
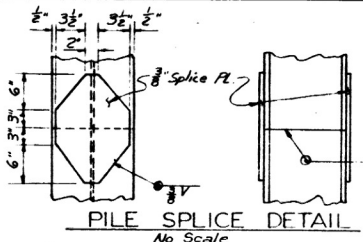
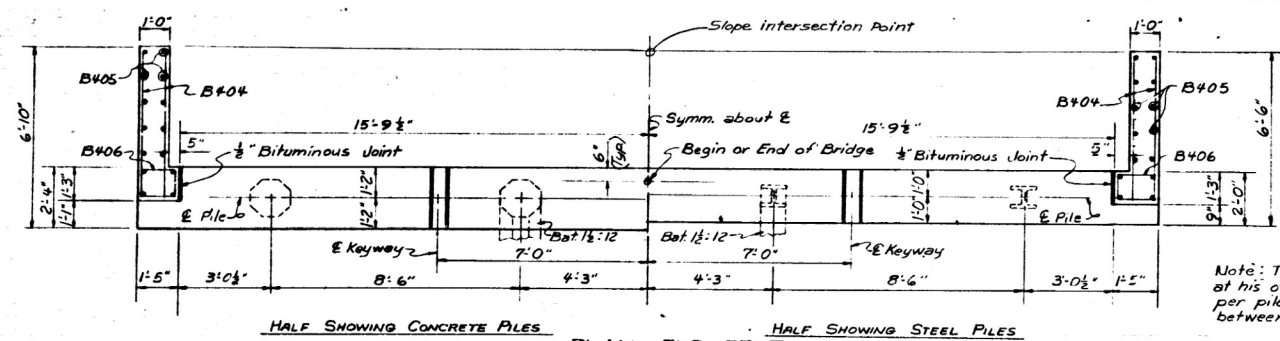
**ARKANSAS STATE HIGHWAY COMMISSION**

LITTLE ROCK  
DRAWN BY: L.C.G. DATE: 8-29-72  
TRACED BY: D.P.H. DATE: 3 Oct 72  
CHECKED BY: F.H. DATE: 4 Oct 72

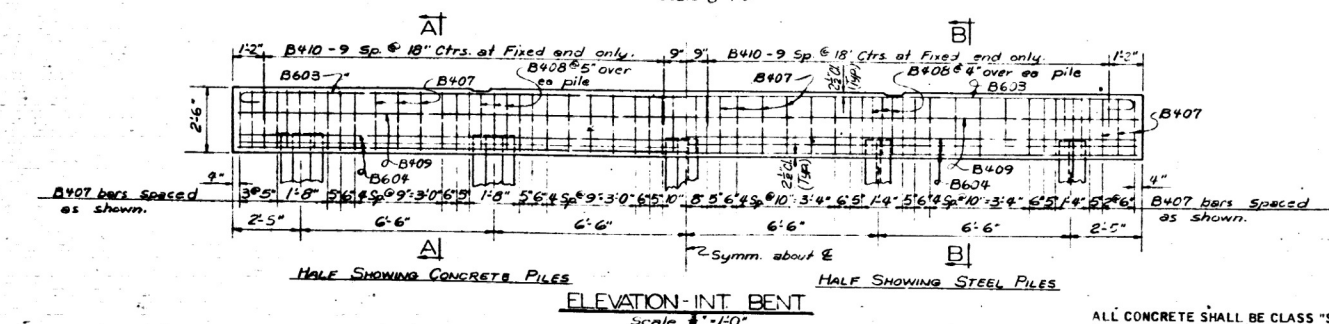
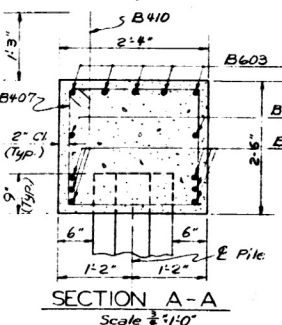
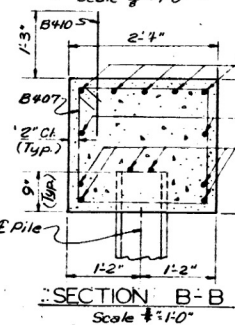
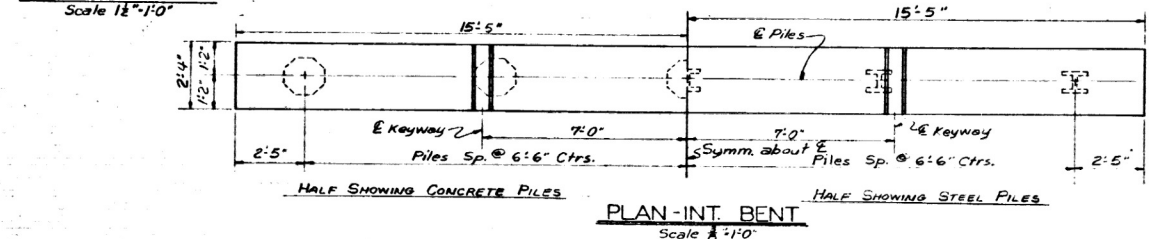
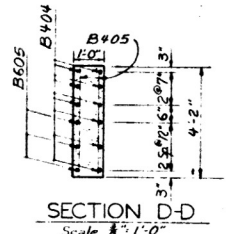
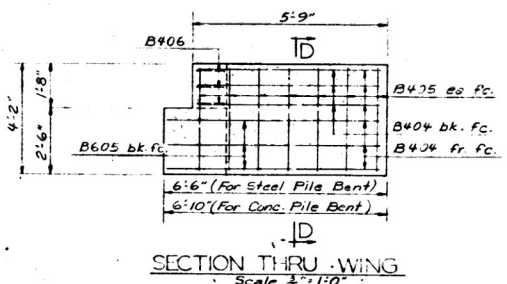
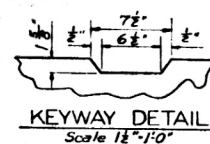
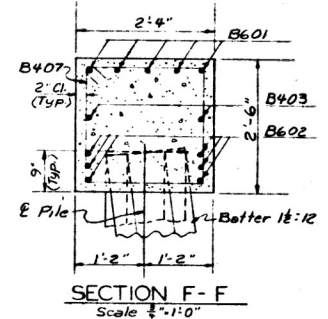
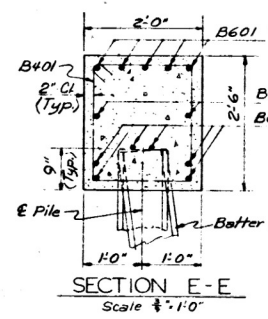
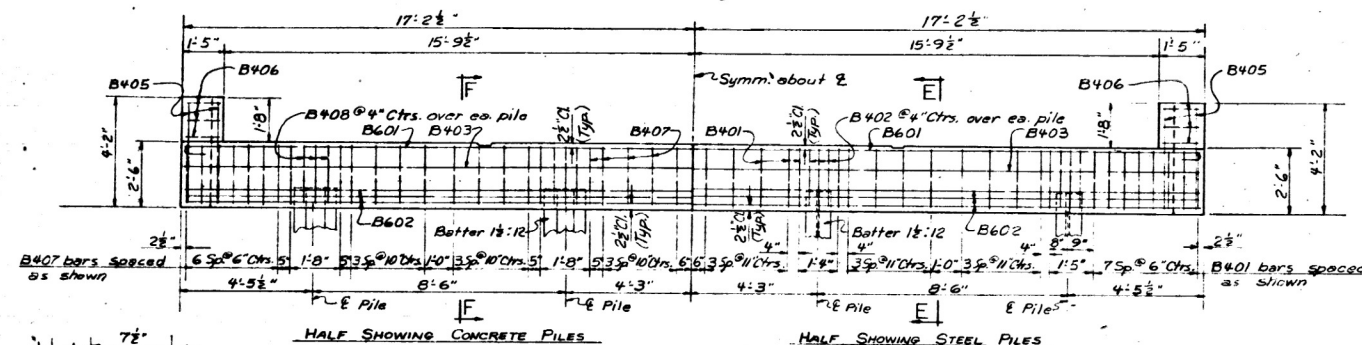
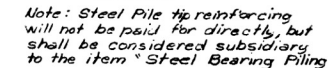
SCALE:  $1" = 20'-0"$

BRIDGE NO. 5497

**DRAWING NO. 17893**



Note: The Contractor may for his convenience and at his own expense provide as many as three splices per pile for Steel Bearing Piling. Minimum spacing between splices shall be 5 feet.



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

REINFORCING STEEL SHALL BE DEFORMED BARS OF ASTM A615, GRADE 40. SHOP LISTS AND BENDING DIAGRAMMS MUST BE SUBMITTED FOR APPROVAL BEFORE FABRICATION IS BEGUN.

ALL PILING SHALL BE 16" OCTAGONAL PRECAST CONCRETE OR HPI042 STEEL BEARING PILES. SEE LAYOUT FOR REQUIRED BEARING CAPACITY.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. BUREAU NO.	STATE	FED. BUREAU NO.	FEDERAL YEAR	SUBJECT NO.	TOTAL COUNT
				6	ARK.	5411(3)			
				JOB NO		2776		18	64
				S ① 5495, 5496, & 5497 Benis					17891 B

**(EACH BENT)**  
**BAR LIST USING STEEL PILES**

**BENDING DIAGRAM**

Mark	No. Rebar		Length	Pile Dia.
	Ext	Int.		
B401	96		8'-2"	2"
B402	72		5'-5"	2"
B403	2		3'-0"	5 1/2"
B404	18		5'-5"	5 1/2"
B405	25		3'-10"	5 1/2"
B406	6		4'-4"	2"
B407		99	6'-10"	2"
B408		15	6'-2"	2"
B409		2	30'-9"	5 1/2"
B410		*	2'-6"	5 1/2"
B601	5		25'-4"	24"
B602	6		3'-10"	24"
B603		3	3'-10"	24"
B604		6	30'-9"	30"
B605	6		6'-0"	30"

Dimensions are out to out of bars.

# (EACH BENT)

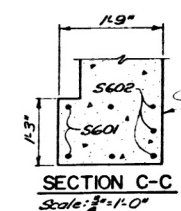
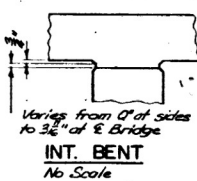
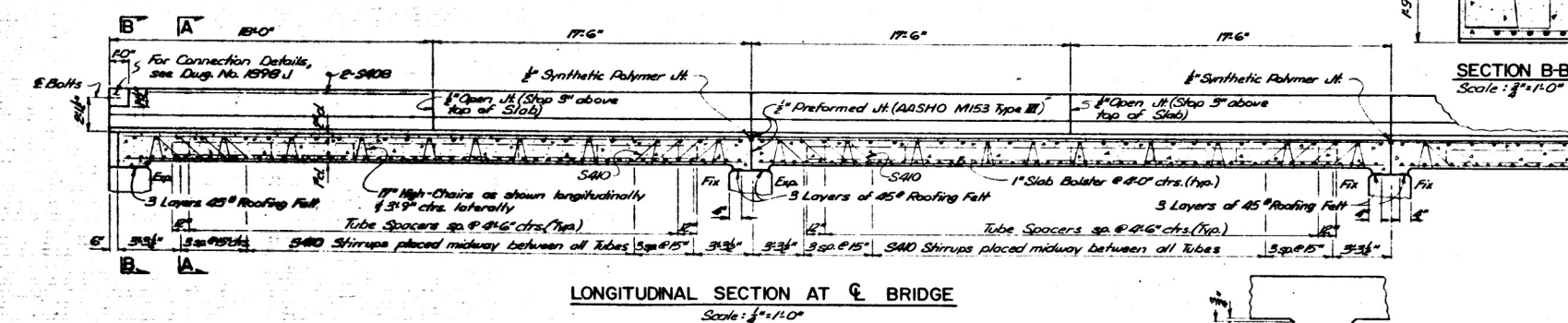
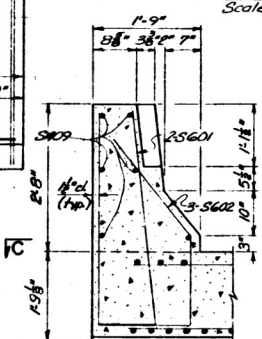
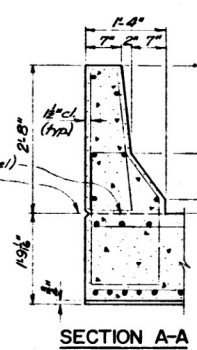
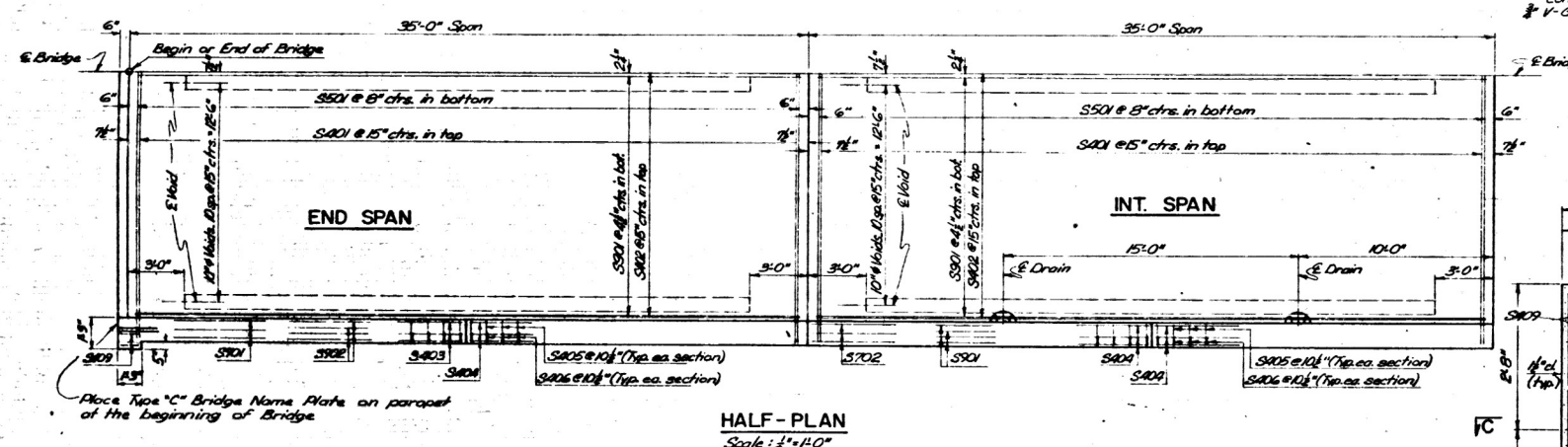
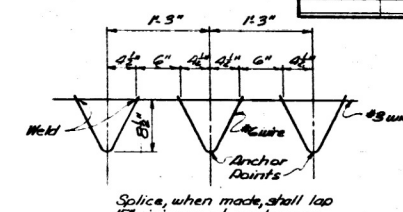
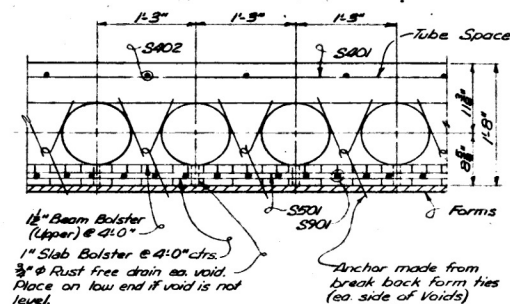
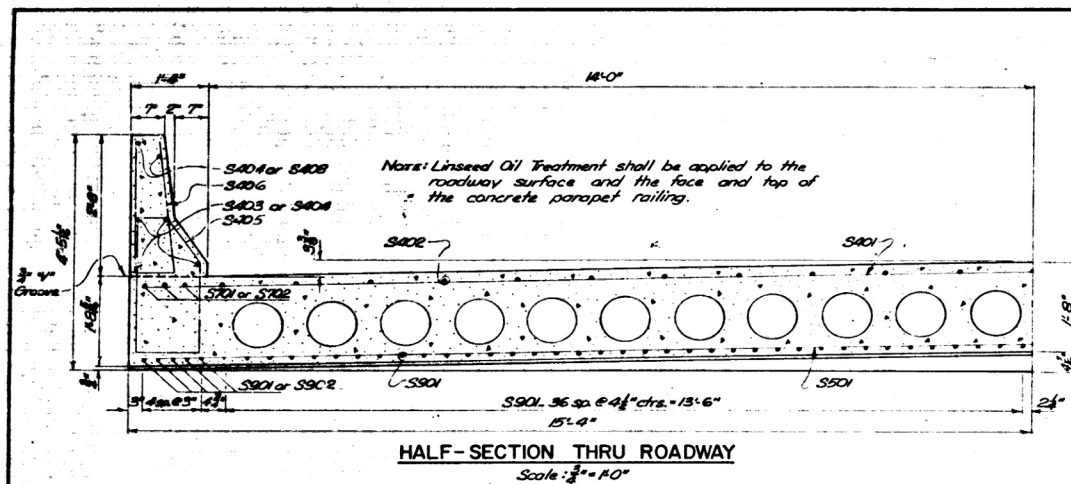
## BAR LIST USING CONCRETE PILES

BENDING DIAGRAM		MARK	NO. REIN'D.		LENGTH	MIN. DIM.
			END	INT.		
	B407	B403	2		34'-0"	51 ft
		B404	18		5'-8"	51 ft
		B405	28		3'-10"	51 ft
		B406	6		4'-10"	2'-0"
		B407	26	44	8'-10"	3'-0"
	B408	B408	12	15	6'-2"	2'-0"
		B409		2	30'-4"	51 ft
		B410		N	2'-6"	51 ft
		B601	5		35'-2"	51 ft
		B602	6		39'-0"	51 ft
	B603	B603	5		3'-0"	3'-0"
		B604		6	30'-2"	51 ft
		B605	6		6'-0"	61 ft

Dimensions are out to out of bars.

DETAILS OF STANDARD PILE BENTS  
WITH TURN-BACK WINGS  
FOR 35' R. C. SLAB SPANS WITH  
28' RDWY. & CONCRETE PARAPET RAIL

ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY D.P.H. DATE 20 Sept 72  
TRACED BY DATE SCALE As Noted  
CHECKED BY F.H. DATE 21 Sept 72  
BRIDGE NO. 5995 5996, 6 DRAWING NO. 14935A  
5497  
Files as Drawing No. 17891B



MARK	NO. REC'D.		LENGTH	P.W.
	END	INT.		
S901	28	28	30'-3"	SH
S902	23	23	30'-7"	SH
S903	8		17'-7"	SH
S904	12	24	17'-4"	SH
S905	78	80	7'-5"	2
S906	79	80	5'-5"	2
S908	4		16'-8"	SH
S909	10		0'-11"	SH
S910	16.8		9'-4"	2
S901	52	52	30'-5"	SH
S901	4		8'-7"	3 1/2
S902	6		5'-10"	3 1/2
S901	6		35'-1"	SH
S902		6	34'-7"	SH
S901	70	84	34'-7"	SH
S902	10		35'-1"	SH

**GENERAL NOTES:**

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

REINFORCING STEEL TO BE DEFORMED BARS OF ASTM A615, GRADE 40 STEEL. SHOP LISTS AND BENDING DIAGRAM MUST BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

ALL CYLINDRICAL TUBES USED TO FORM VOIDS SHALL BE OF MOISTURE PROTECTED, LAMINATED TYPE CONSTRUCTION MINIMUM THICKNESS 0.200, AND SHALL BE FURNISHED COMPLETE.

ALL REINFORCING STEEL AND FIBER TUBES SHALL BE ACCURATELY LOCATED IN THE FORMS AND FIRMLY HELD IN PLACE BY BEAMS OF STEEL WIRE SUPPORTS AND SPACERS FOR TUBES OF A SUFFICIENT NUMBER AND SIZE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION, BUT IN NO CASE OF LESSER DESIGN AS

WIRE SUPPORTS FOR REINFORCING BARS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "REINFORCING STEEL". TUBES FOR FORMING Voids AND WIRE SUPPORTS AND SPACERS FOR TUBES WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM "CLASS 5 CONCRETE".

SHOP LISTS AND DIAGRAMS OF WIRE SUPPORTS AND SPACERS FOR TUBES SHALL BE SUBMITTED FOR APPROVAL BEFORE FABRICATION IS BEGUN. ROOFING FELT, PREPARED EXPANSION JOINT AND SYNTHETIC POLYMER JOINTS SHALL BE MEASURED AND PAID FOR AS CLASS 5 CONCRETE

**SPECIFICATIONS: ARKANSAS STATE HIGHWAY  
COMMISSION STANDARD SPECIFICATIONS FOR  
HIGHWAY CONSTRUCTION, EDITION OF 1972,  
AND APPLICABLE SPECIAL PROVISIONS.**

DESIGN SPECIFICATIONS: AASHTO 1969  
DESIGN LIVE LOADING: HS20  
LOAD DISTRIBUTION TO SLAB: BEAM LOAD - 20K  
LIVE LOAD: 8.166 WHEELS/FT OF WIDTH PLUS

UNIT STRESSES:  
CLASS 5 CONCRETE (f<sub>c</sub>) 1,200 PSI  
REINFORCING STEEL 20,000 PSI

DETAILS OF STANDARD  
35'-0" R.C. SLAB SPAN  
28' CL. RDWY - CONCRETE PARAPET RAIL  
ROUTE SEC.  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
DRAWN BY: K.M.G. DATE: 14 June 72  
TRACED BY: \_\_\_\_\_  
CHECKED BY: C.E.S. DATE: 28 Aug 72 SCALE: As Noted  
SHEET NO. 5495, 5496, 5 DRAWING NO. 10374