

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	INVEST. NO.	TOTAL SHEETS
				3	ARK.	9-257(5)			
				JOB NO.	424A, 425A, 426A, 427A, 428A		3	39	

SCHEDULE OF BRIDGE QUANTITIES - JOB 4613

		ITEM NO	801	SP # 802	803	804	805	806	812	816	816	816	SP JOB 4613
BRIDGE NO CODE NO	BRIDGE NAME PLATE TITLE	UNIT OF BRIDGE	ITEM	UNCLASSIFIED EXCAVATION FOR STRUCTURES- BRIDGE	CLASS S CONCRETE	BOILED LINSEED OIL	REINFORCING STEEL	STEEL BEARING PILING (HP 10 x 42)	(ALT 1) METAL (ALUMINUM) BRIDGE RAILING (TYPE S) (ALT 2) METAL (STEEL) BRIDGE RAILING (TYPE E)	BRIDGE NAME PLATES (TYPE C)	DUMPED RIPRAP	FILTER PLANKET	REMODELING EXISTING BRIDGES AND MAINTENANCE OF TRAFFIC
			UNIT	CU YD	CU YD	GAL	LB	LIN. FT	LIN. FT	FACH	CU YD 120	CU YD 40	LUMP SUM
424A X020	HARTSELL CREEK		BENT NO 1	26	7.01		715	84					
			BENT NO 2	55	14.33		1567						
			BENT NOS 3, 4, 5 & 6	203	59.05		6495						
			BENT NO 7	26	7.01		715	96			186	56	
			SPAN NOS 1 & 6		97.84	4.1	23,000		139.7	1			
			SPAN NOS 2, 3, 4 & 5		189.76	8.0	45,266		289.3				
			TOTALS FOR BR NO 424A	310	375.00	12.1	77,780	150	429.0		286	96	0.44
425A X020	WICHEGRASSE CREEK		BENT NOS 1 & 4	59	16.43		1832	160			294	96	
			BENT NOS 2 & 3	44	30.18		3083						
			SPAN NOS 1 & 3		98.36	4.1	23,370		138.9				
			SPAN NO 2		47.53	2.0	11,465		72.1				
			TOTALS FOR BR NO 425A	103	192.50	6.1	39,750	160	211.0	1	294	96	0.22
426A X020	MOLLIES GAP		ABUTMENT NO 1		3.60		203						
			ABUTMENT NO 2		3.32		200			1			
			SPAN		54.88	1.8	11,317						
			TOTALS FOR BR NO 426A		61.80	1.8	12,220			1			0.07
427A X020	GIN CREEK		ABUTMENT NO 1		4.90		324						
			ABUTMENT NO 2		4.90		324						
			BENT NO 1	19	12.56		1360			1			
			SPAN NOS 1 & 2		79.32	3.5	20,032						
			TOTALS FOR BR NO 427A	19	101.70	3.5	22,090			1			0.14
428A X020	PIGEON CREEK		ABUTMENT NO 1	70	23.60		3103						
			ABUTMENT NO 2	64	22.51		3033						
			BENT NO	16	13.14		1452			1			
			SPAN NOS 1 & 2		72.35	2.9	17,142						
			TOTALS FOR BR NO 428A	150	131.50	2.9	24,730			1			0.13
			TOTALS FOR JOB 4613	* 582	862.50	26.4	176,570	340	640.0	5	** 582	94	1.00

*108 cu yds. estimated to be Rock Excavation
** 78 cu yds. will require hand placing.
*** 26 cu yds. will require hand placing

SCHEDULE OF BRIDGE QUANTITIES
GREENWOOD-LOGAN CO. LINE BRS. 8 APPRS.
SEBASTIAN COUNTY
ROUTE 10 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: *H. H. H.* DATE: 5-1-73
TRACED BY: DATE:
CHECKED BY: *WAS* DATE: 5-8-73
BRIDGE NO. 424A, 425A, 426A, 427A, 428A
DRAWING NO. 18172

Donald Robertson
BRIDGE ENGINEER

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1-10-73	5-2-73			6	ARK.	5-2526		23	99
				JOB NO.		463	23	99	

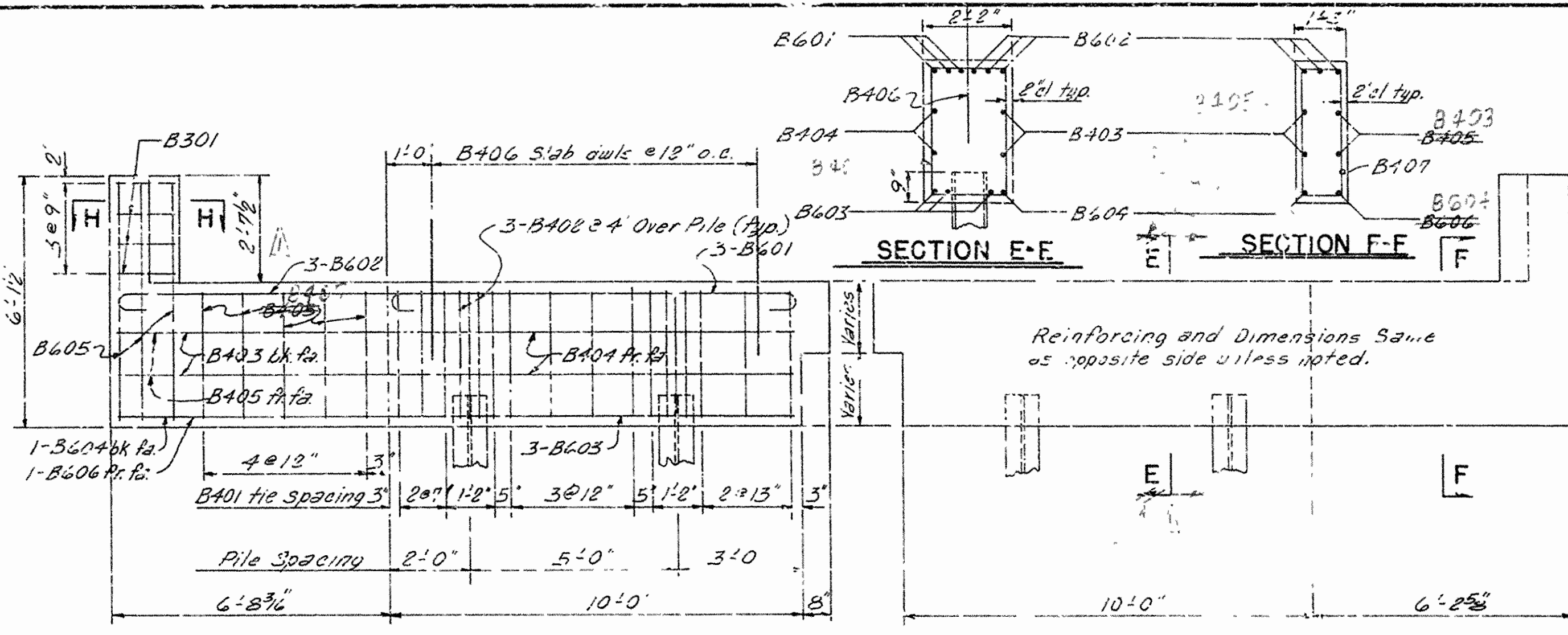
425A BENT DETAILS 3179

BAR LIST FOR ONE BENT (BOTH SIDES)

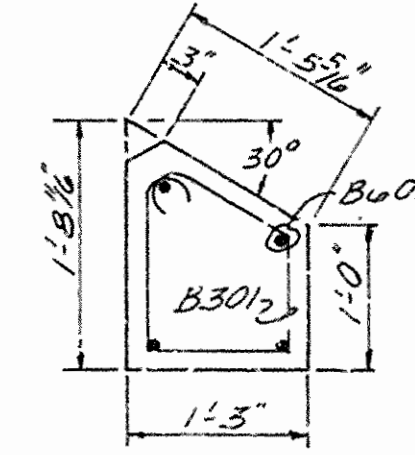
MARK	NO. REQD	LENGTH	A	B	PIN DIA.	BENDING DIAGRAMS
B601	6	10'-10"	9'-6"	6"	4 1/2"	
B602	6	17'-4"	16'-0"	6"	4 1/2"	
B603	6	9'-8"	—	—	Str.	
B604	2	16'-0"	—	—	Str.	
B605	8	5'-10"	—	—	Str.	
B606	2	7'-10"	—	—	Str.	
B401	24	10'-6"	1'-10"	3'-8"	2"	
B402	12	8'-0"	1'-10"	3'-8"	2"	
B403	4	16'-"	—	—	Str.	
B404	4	9'-8"	—	—	Str.	
B405	4	8'-2"	—	—	Str.	
B406	18	3'-8"	—	—	Str.	
B407	10	8'-8"	0'-11"	3'-8"	2"	
B301	8	4'-9"	See Diagram	1 1/2"	1 1/2"	

Dimensions are out to out of bars

- NOTES:
- USE CLASS "S" CONCRETE (N=10)
 - BITUMINOUS FELT JOINT TO BE PAID FOR AS CLASS "S" CONCRETE
 - ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER UNLESS OTHERWISE NOTED.
 - THE WORK CONTEMPLATED CONSISTS OF WIDENING THE EXISTING BRIDGE ON BOTH SIDES OF THE ROADWAY. FOR REQUIREMENTS IN CONDUCTING THE WORK, SEE JOB SPECIAL PROVISION "REMODELING EXISTING BRIDGES AND MAINTENANCE OF TRAFFIC". ALL DIMENSIONS RELATING TO EXISTING BRIDGE ARE TO BE VERIFIED IN THE FIELD AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE WIDENING TO EXISTING STRUCTURE.
 - REINFORCING STEEL TO BE ASTM A615, GRADE 40. REINFORCING STEEL IS TO BE HELD IN PLACE BY MEANS OF STEEL WIRE SUPPORTS SUFFICIENT IN NUMBER AND SIZE TO PROPERLY SUPPORT THE STEEL IN THE FORMS. THESE SHOP LISTS AND BENDING DIAGRAMS OF REINFORCING STEEL AND WIRE SUPPORTS MUST BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.
- For Piling See Spec. Notes Div. 1 1-173



ELEVATION OF END BENTS
Bent 1 - Looking Forward
Bent 7 - Looking Back
3/4" = 1'-0"



SECTION H-H
3/4" = 1'-0"

PLAN

ELEVATION

PLAN SHOWING NEW CONSTRUCTION
3/4" = 1'-0"

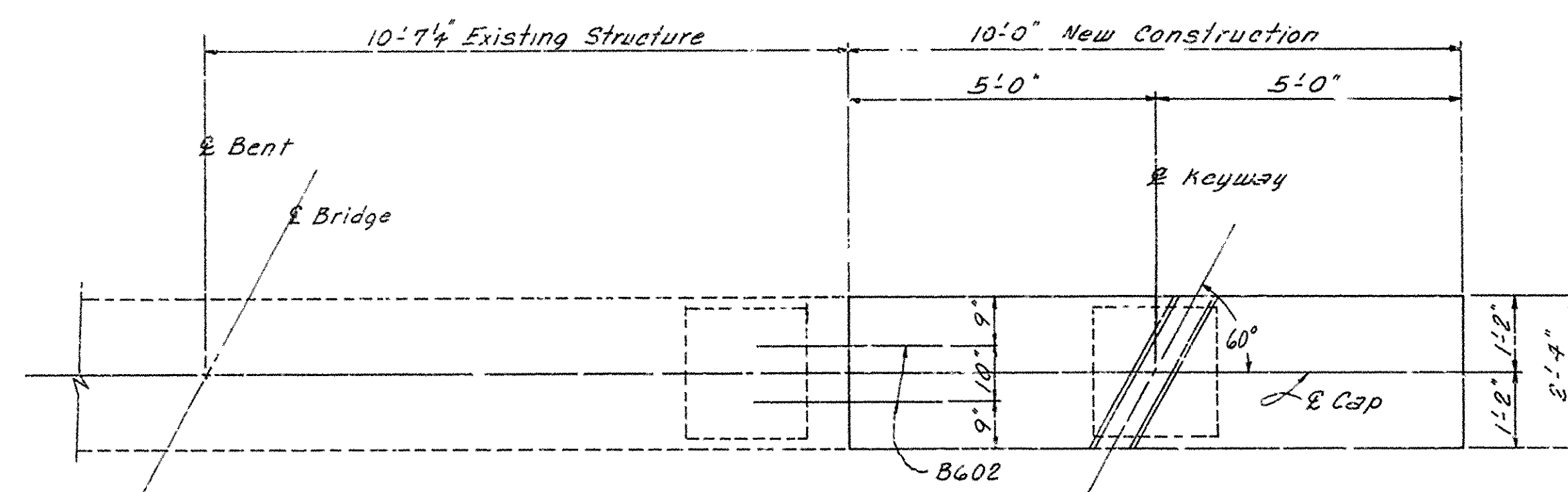
ELEVATION SHOWING NEW CONSTRUCTION
LOOKING FORWARD BENT 1
LOOKING BACK BENT 7
3/4" = 1'-0"

DETAILS OF BENTS 18:4
VACHE GRASSE CREEK
GREENWOOD-LOGAN CO. LINE BRS. & APPRS.
SEBASTIAN COUNTY
ROUTE 10 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

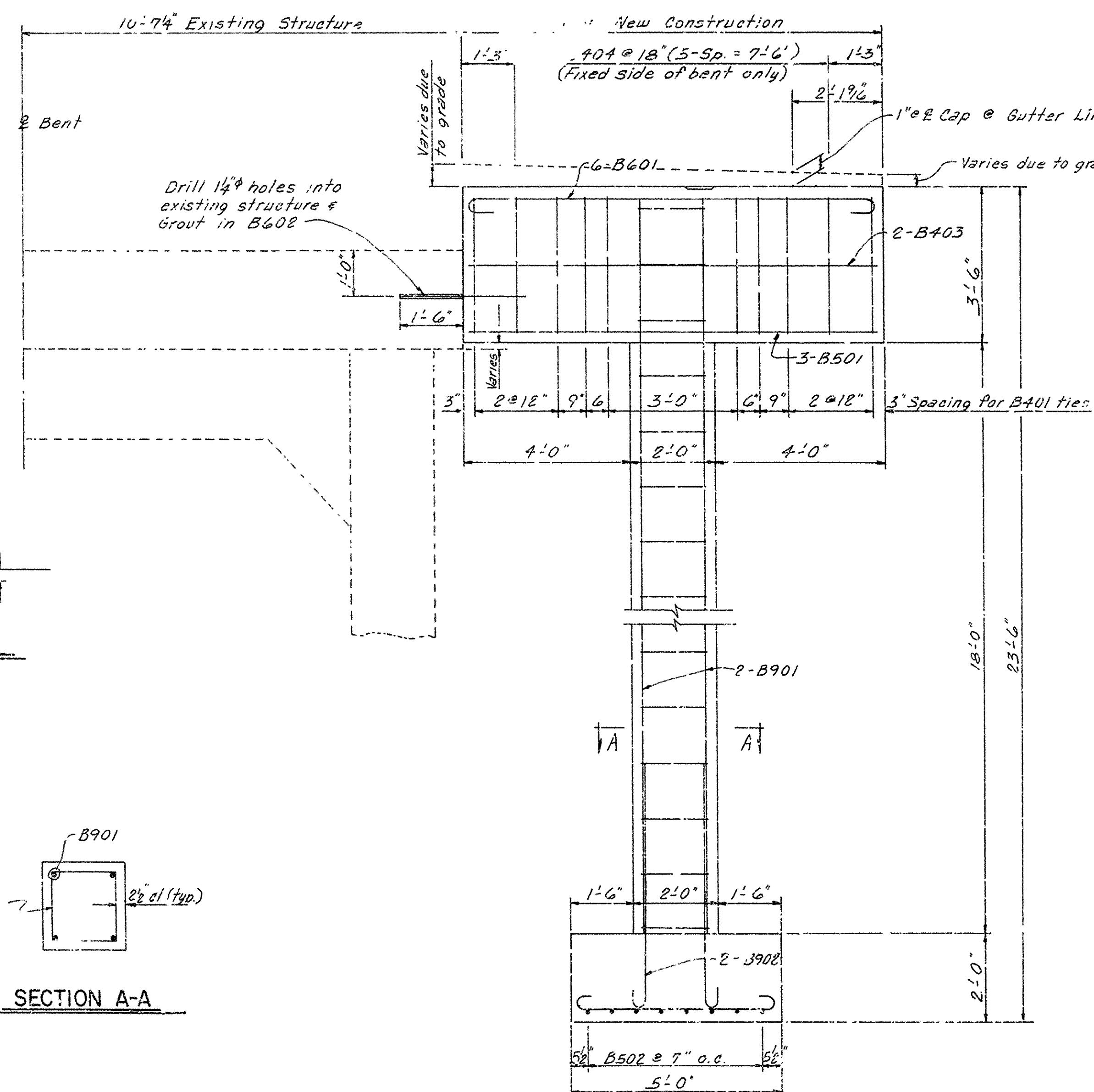
DRAWN BY: J.W.W. DATE: 1-10-73
TRACED BY: DATE: SCALE: As Noted
CHECKED BY: DATE: 3-8-73
BRIDGE NO. 425A DRAWING NO. 18179

Paul Linkerton
BRIDGE ENGINEER

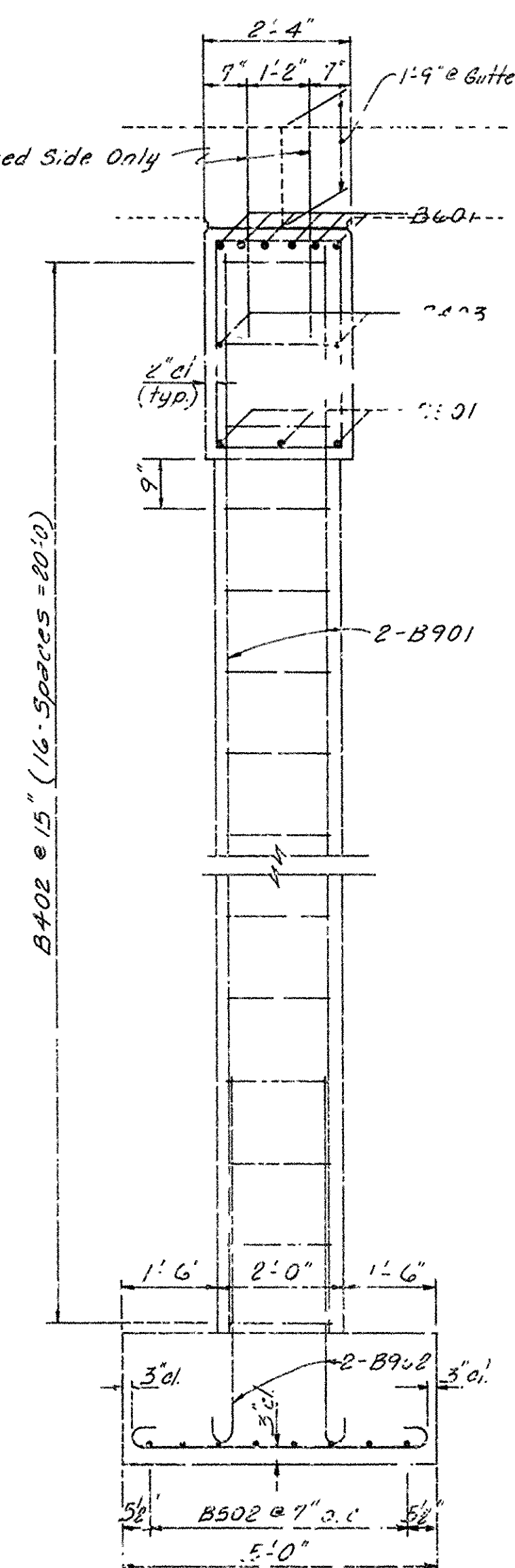
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
10-1-72	2-2-72			6	ARK.	5-252(3)			
				JOB NO.		4613		24	90
S ① 425A 55MT DETAILS 10-1									



PLAN



ELEVATION



END VIEW

BAR LIST FOR ONE BENT (BOTH SIDES)

MARK	NO.	REQ'D.	LENGTH	A	B	PIN DIA.	BENDING DIAGRAMS
B901	8	21'-0"	—	—	—	Str.	
B902	8	6'-9"	5'-6"	10"	9"	—	
B601	12	10'-2"	9'-6"	6"	4 1/2"	—	
B501	6	9'-8"	—	—	—	Str.	
B502	32	5'-8"	4'-6"	5"	3 3/4"	—	
B401	20	10'-10"	2'-0"	3'-2"	2"	—	
B402	34	6'-10"	1'-9"	1'-9"	2"	—	
B403	4	9'-8"	—	—	—	Str.	
B404	*12	3'-2"	—	—	—	Str.	
B602	4	3'-0"	—	—	—	Str.	

*Fix-Fix Bent Only

NOTES:

- USE CLASS "S" CONCRETE (N=10)
- BITUMINOUS FELT JOINT TO BE PAID FOR AS CLASS "S" CONCRETE.
- ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER UNLESS OTHERWISE NOTED.
- THE WORK CONTEMPLATED CONSISTS OF WIDENING THE EXISTING BRIDGE ON BOTH SIDES OF THE ROADWAY. FOR REQUIREMENTS IN CONDUCTING THE WORK, SEE JOB SPECIAL PROVISION "REMODELING EXISTING BRIDGES AND MAINTENANCE OF TRAFFIC". ALL DIMENSIONS RELATING TO EXISTING BRIDGE ARE TO BE VERIFIED IN THE FIELD AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE WIDENING TO EXISTING STRUCTURE.
- REINFORCING STEEL TO BE ASTM A615, GRADE 40. REINFORCING STEEL IS TO BE HELD IN PLACE BY MEANS OF STEEL WIRE SUPPORTS SUFFICIENT IN NUMBER AND SIZE TO PROPERLY SUPPORT THE STEEL IN THE FORMS. THESE SHOP LISTS AND BENDING DIAGRAMS OF REINFORCING STEEL AND WIRE SUPPORTS MUST BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

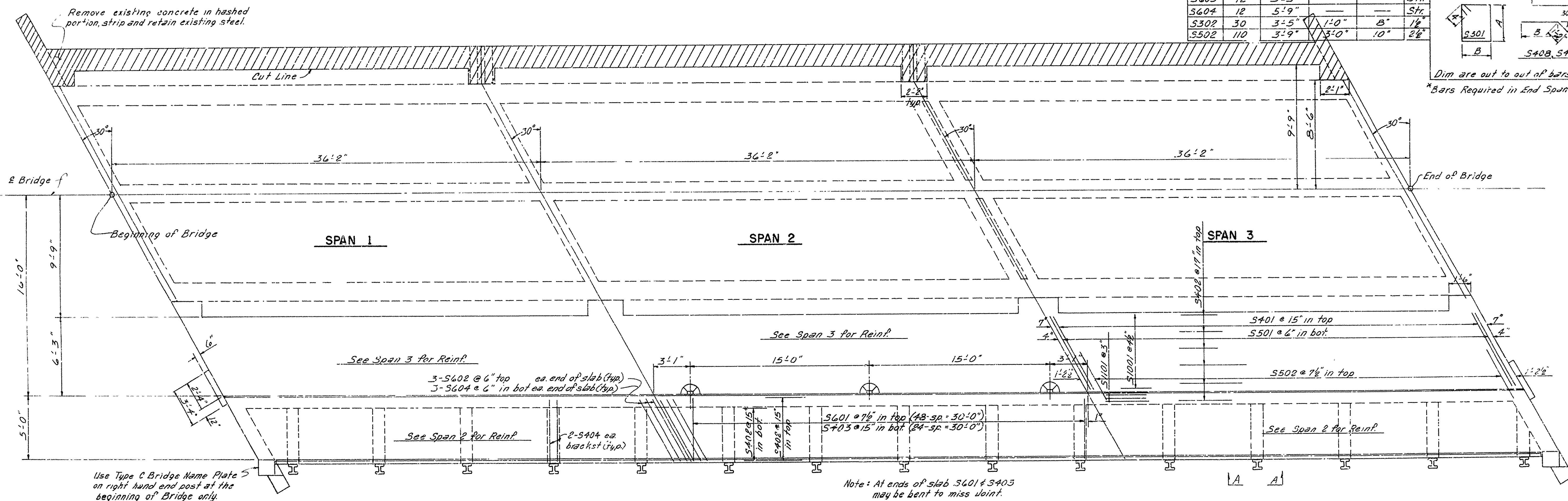
DETAILS OF BENTS 2 & 3
VACHE GRASSE CREEK
GREENWOOD-LOGAN CO. LINE BRS. & APPRS.
SEBASTIAN COUNTY
ROUTE 10 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.W.W. DATE: 1-3-72
TRACED BY: DATE: 2-3-72
CHECKED BY: DATE: 2-3-72
BRIDGE NO. 125A DRAWING NO. 10180
SCALE: 1/2" = 1'-0"

BRIDGE ENGINEER



A = Elev. of New Concrete Gutter Line.



PLAN OF WIDENING
4'-1'-0"

THE WORK CONTEMPLATED CONSISTS OF WIDENING THE EXISTING BRIDGE ON BOTH SIDES OF THE ROADWAY. FOR REQUIREMENTS IN CONDUCTING THE WORK, SEE JOB SPECIAL PROVISION "REMODELING EXISTING BRIDGE STRUCTURE". ALL DIMENSIONS RELATING TO EXISTING BRIDGE ARE TO BE VERIFIED IN THE FIELD AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING DIMENSIONS TO EXISTING STRUCTURE.

ALL CONCRETE TO BE CLASS 5 (N=8). ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER UNLESS OTHERWISE NOTED.

REINFORCING STEEL TO BE ASTM A615, GRADE 40. REINFORCING STEEL IS TO BE HELD IN PLACE BY MEANS OF STEEL WIRE SUPPORTS SUFFICIENT IN NUMBER AND SIZE TO PROPERLY SUPPORT THE STEEL IN THE FORMS. THESE SHOP LISTS AND BENDING DIAGRAMS OF REINFORCING STEEL AND WIRE SUPPORTS MUST BE SUBMITTED AND APPROVAL SECURED BEFORE FABRICATION IS BEGUN.

FOR DETAILS OF BRIDGE RAILING, SEE DWG. 14993B. BRIDGE RAILING, RAILING POST AND FASTENINGS SHALL BE PAID FOR AT THE UNIT PRICE PER LINEAR FOOT BID FOR METAL BRIDGE RAILING.

ROOFING FELT, PREFORMED JOINT, AND POURED ASPHALT TO BE MEASURED AND PAID FOR AS CLASS S CONCRETE.

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

DESIGN SPECIFICATIONS: AASHO 1969

LOADING: H2O

LOAD DISTRIBUTION TO SLAB:

DEAD LOAD - 356 PSF

LIVE LOAD - 0.164 WHEELS PER FT. OF WIDTH PLUS 30% IMPACT.

STRESSES: CLASS S CONCRETE (N=8)
REINFORCING STEEL

1,600 PSI
20,000 PSI

80-4254 SPANV DETAILS .C.51

Dim are out to out of bars.

* Bars Required in End Span only

GENERAL NOTES

SHEET 1 OF 2

DETAILS OF WIDENING SPANS

VACHE GRASSE CREEK

GREENWOOD-LOGAN CO. LINE BRS. 8 APPRS.

SEBASTIAN COUNTY

ROUTE 10 SEC. 1

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: W.W.W. DATE: 1-11-78

TRACED BY: _____ DATE: _____

SCALE: As Noted

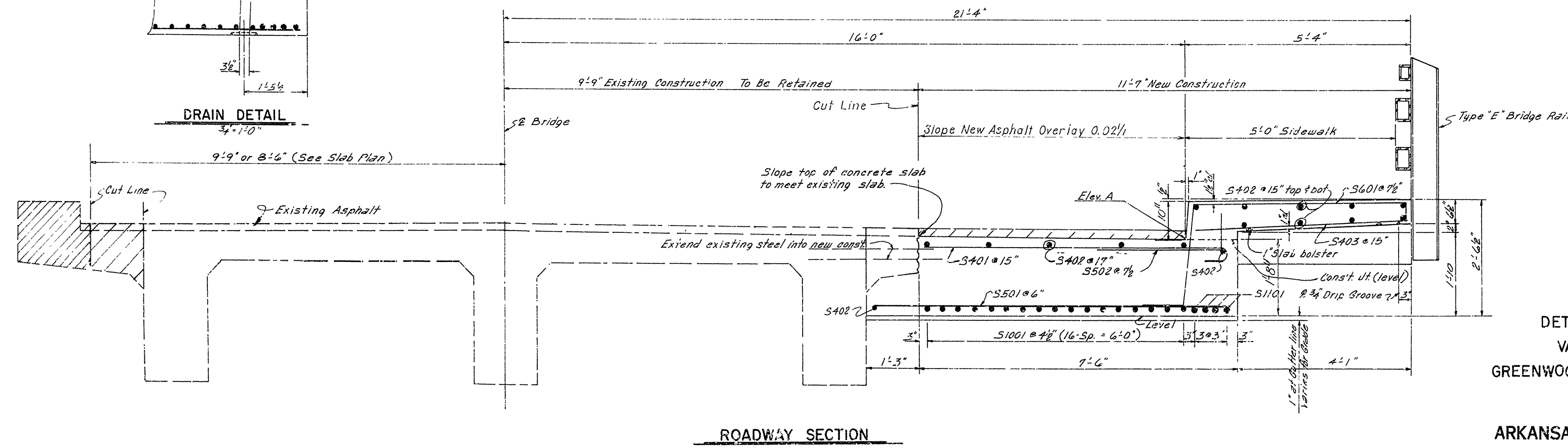
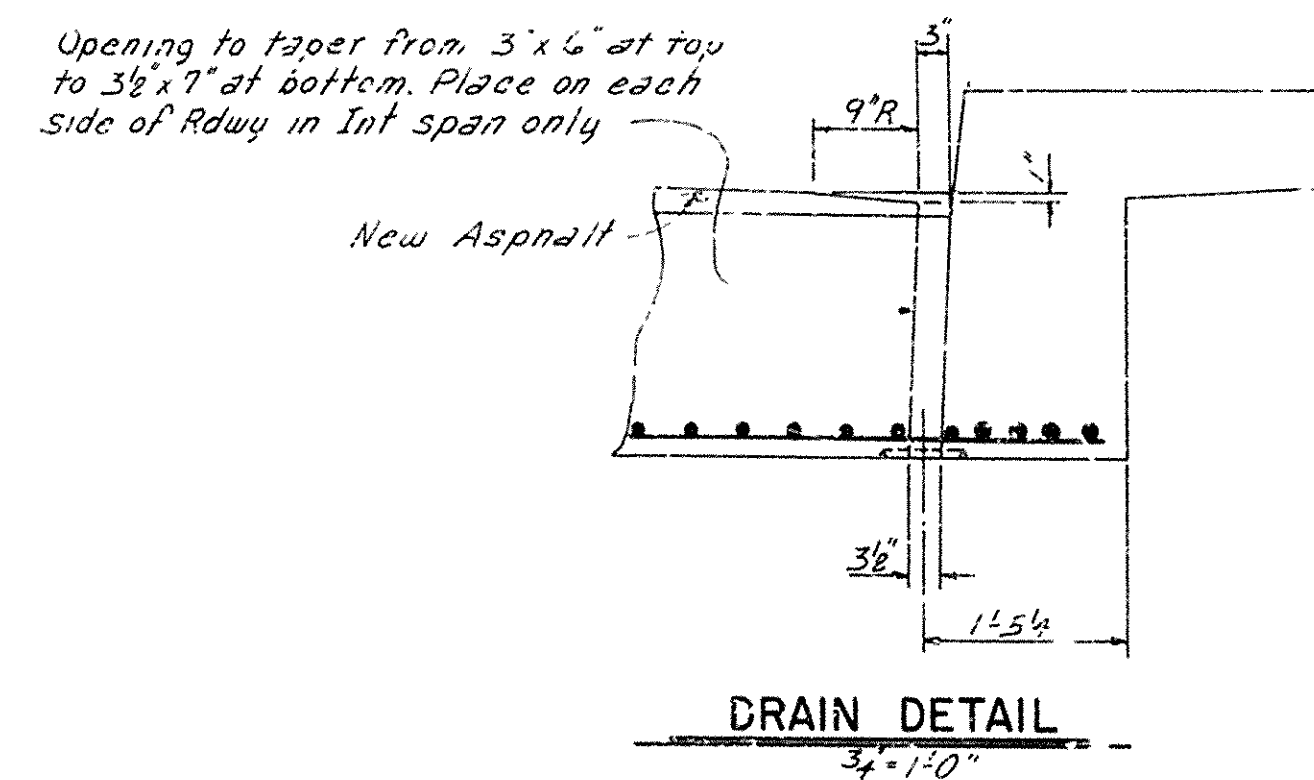
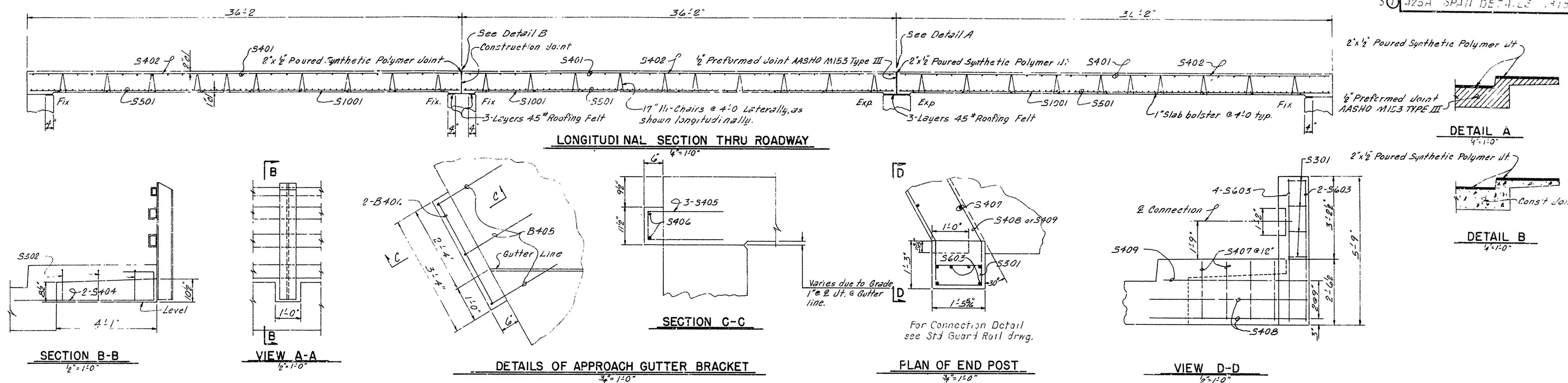
BRIDGE NO. 425A

DRAWING NO. 13181

Walter Pinkerton
BRIDGE ENGINEER

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				6	ARK.	5-252(S)		26	99
				JOB NO.	425A SP111 DETAIL 2 1972				

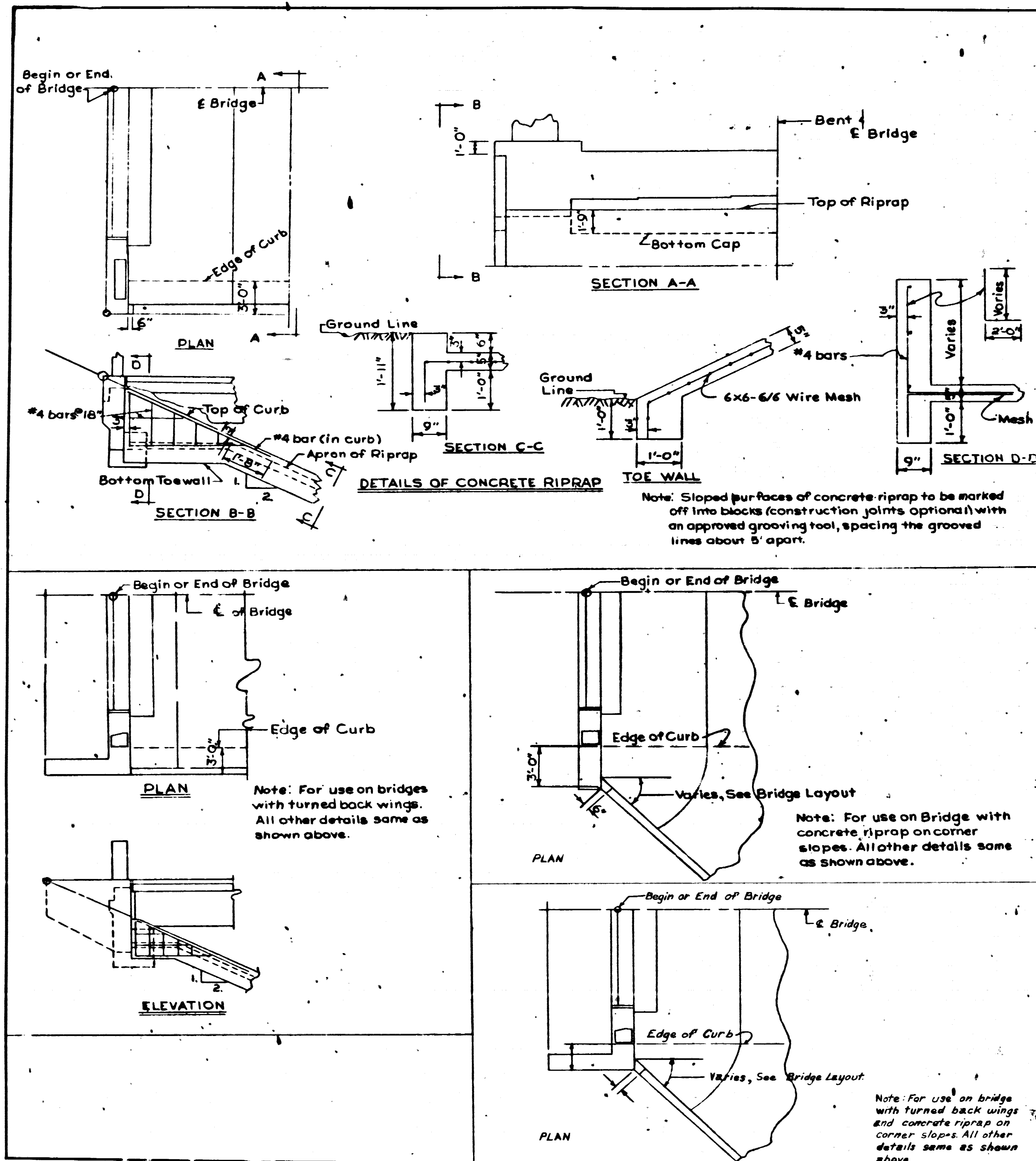
261



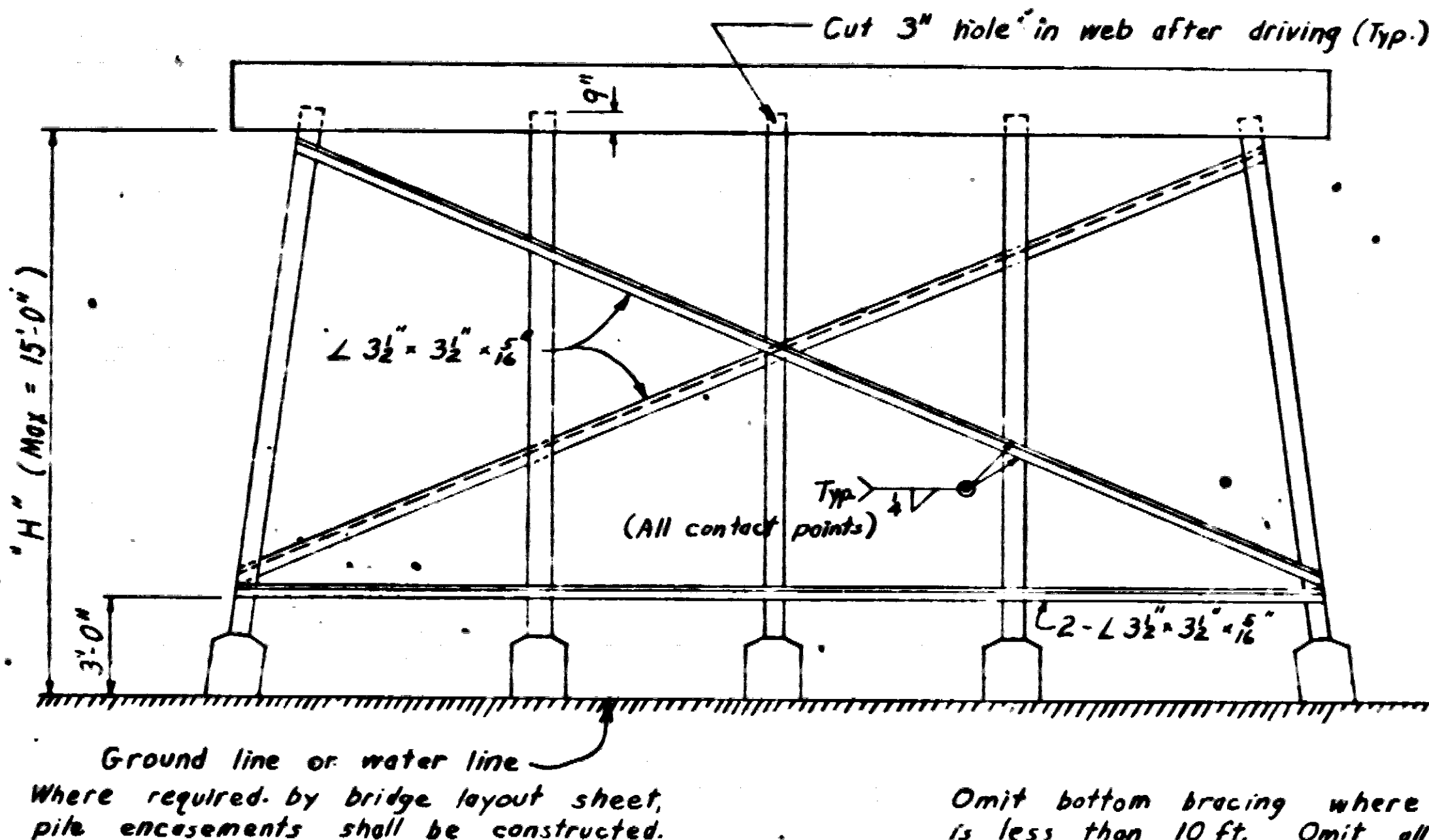
SHEET 2 OF 2
DETAILS OF WIDENING SPANS
VACHE GRASSEL CREEK
GREENWOOD-LOGAN CO. LINE BRS. & APPRS.
SEBASTIAN COUNTY
ROUTE 10 SEC. 1
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: W.W.W. DATE: 1-11-73
 TRACED BY: DATE: 1-11-73
 CHECKED BY: DATE: 8-72
 SCALE: As Noted

BRIDGE NO. 425A **DRAWING NO. 18182**



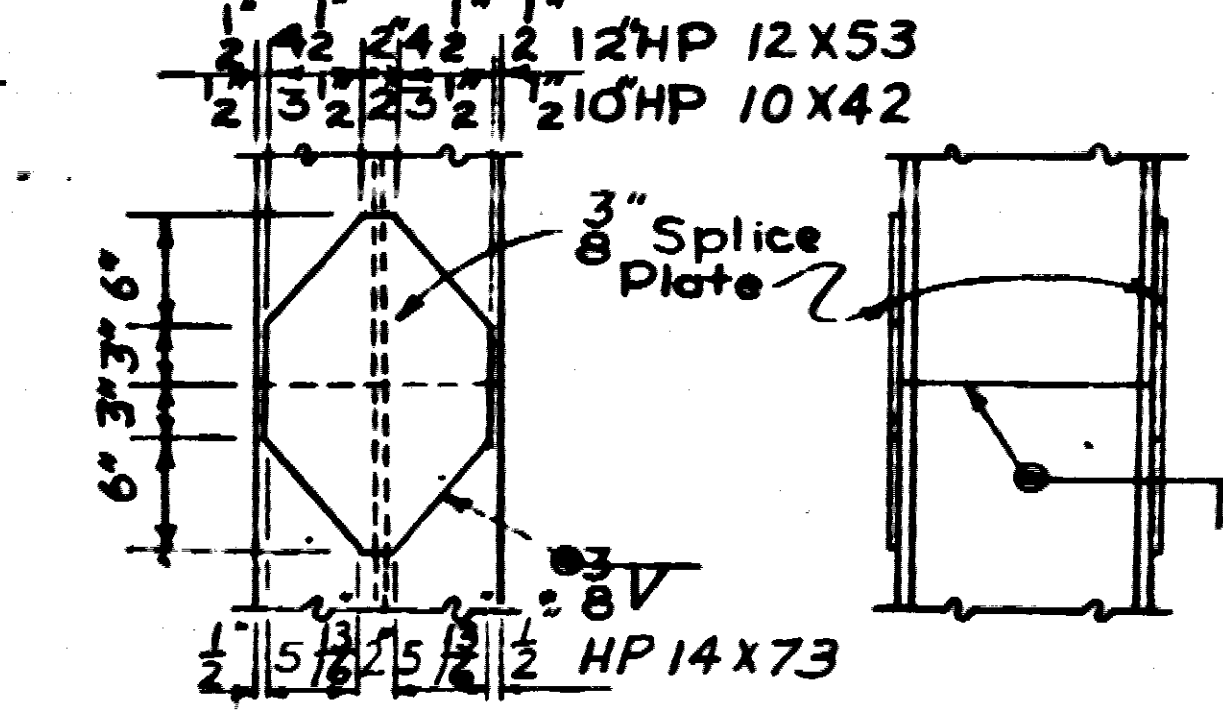
All bracing shall be cut and welded in the field. Each brace shall be furnished in one piece. Payment shall be made under item 807.



TYPICAL BRACING FOR INT. STEEL PILE BENTS

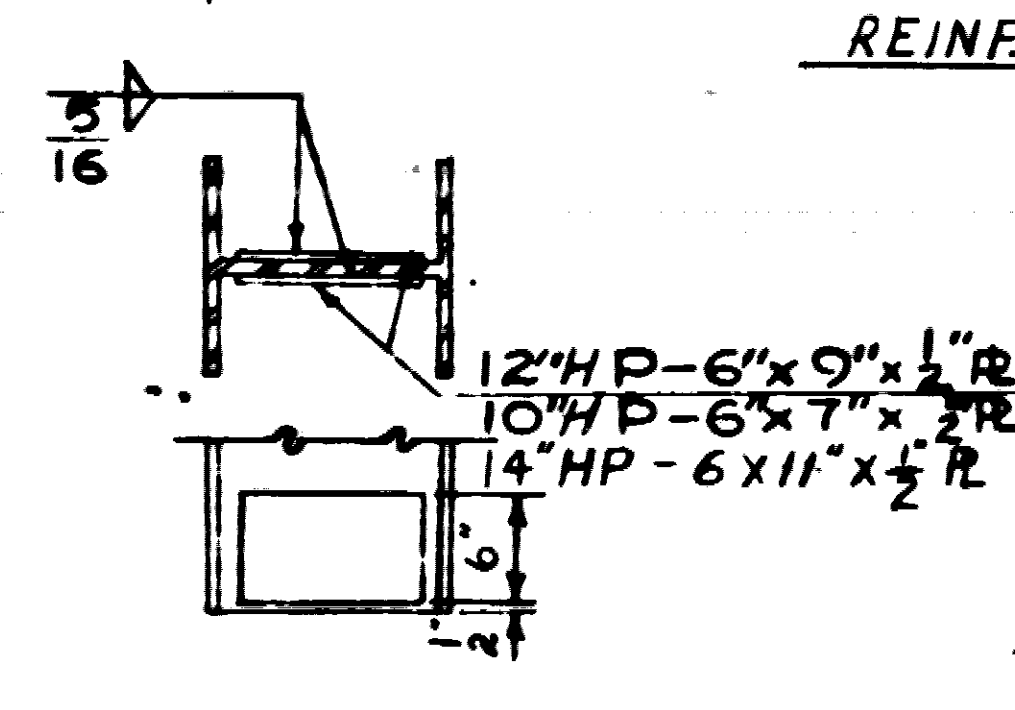
No Scale

Note: Omit Bracing where Pile Encasement is Extended to Bottom of Bent Cap.



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.

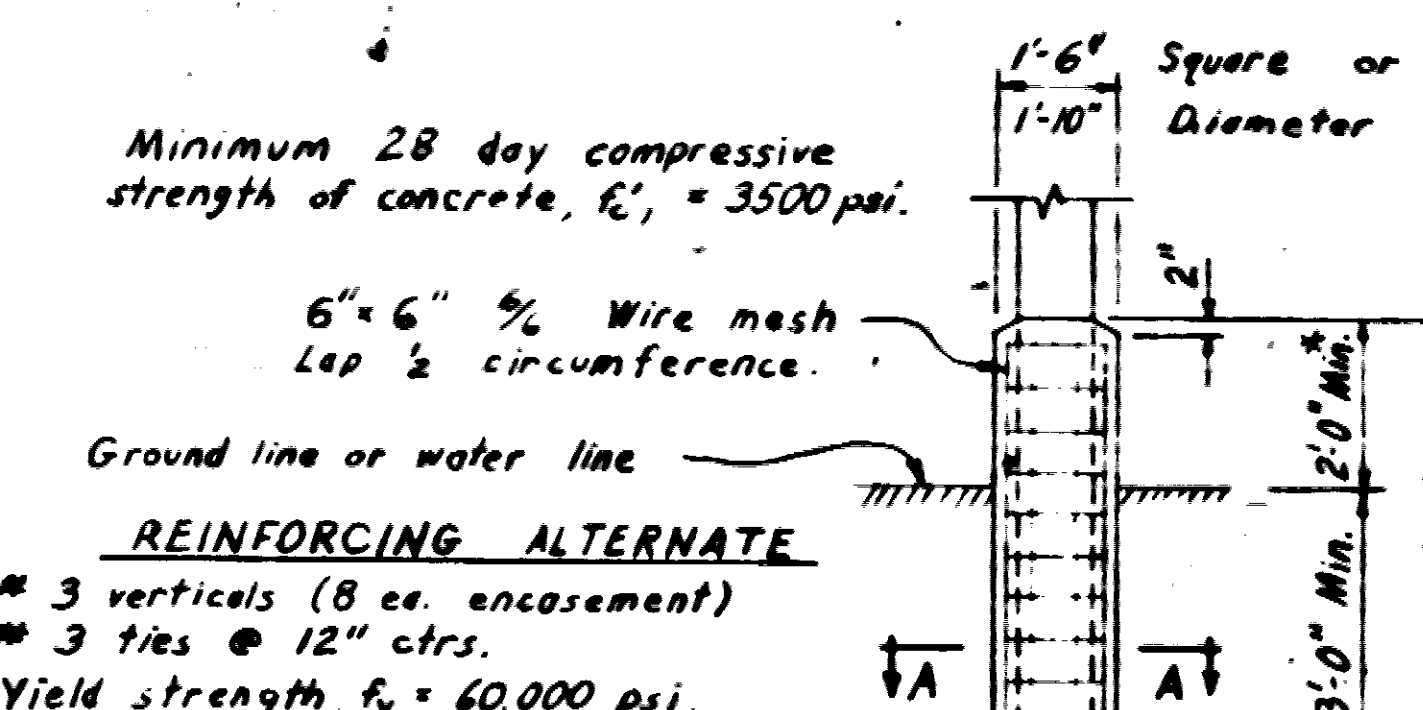
NOTE: Drawing Adapted From Drawing No. 14995, With Detail Drawing Concrete Riprap on Corner Slopes L.E.G. 2/16/72



Note: Steel Pile Tip Reinforcing will not be paid for directly, but shall be considered subsidiary to the item of "Steel Bearing Piling".

DATE	REVISED	DATE	REVISED	DATE	REVISED	DATE	REVISED	FED. ROAD NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2/15/72		10/5/76		12-5-77		500-12-5-77		6	ARK.			34	
4-21-76		10/5-21-76		5-7-81		10/1-5-1/81							
9-24-77		10/9-10-77		2-22-82		507-2-22-82							

332



*Extend Encasement to bottom of Cap when noted on Bridge Layout.

NOTE: Concrete and Wire Mesh or Reinforcing in Encasements shall be paid for at the contract unit price per linear foot bid for "Pile Encasements".

#3 vertical bar, length = L-6"

#3 tie @ 12"

12" CL

10" D

22" ϕ

15"

SECTION A-A

REINFORCING ALTERNATE

NTS

DETAILS OF CONCRETE RIPRAP AND MISC. DETAILS OF STEEL PILING ROUTE SEC.

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: J.L. DATE: 6-6-69

TRACED BY: DATE: 6-6-69

CHECKED: EMH DATE: 6-24-68

BRIDGE NO. SCALE: NO SCALE

DRAWING NO. 14995A

275

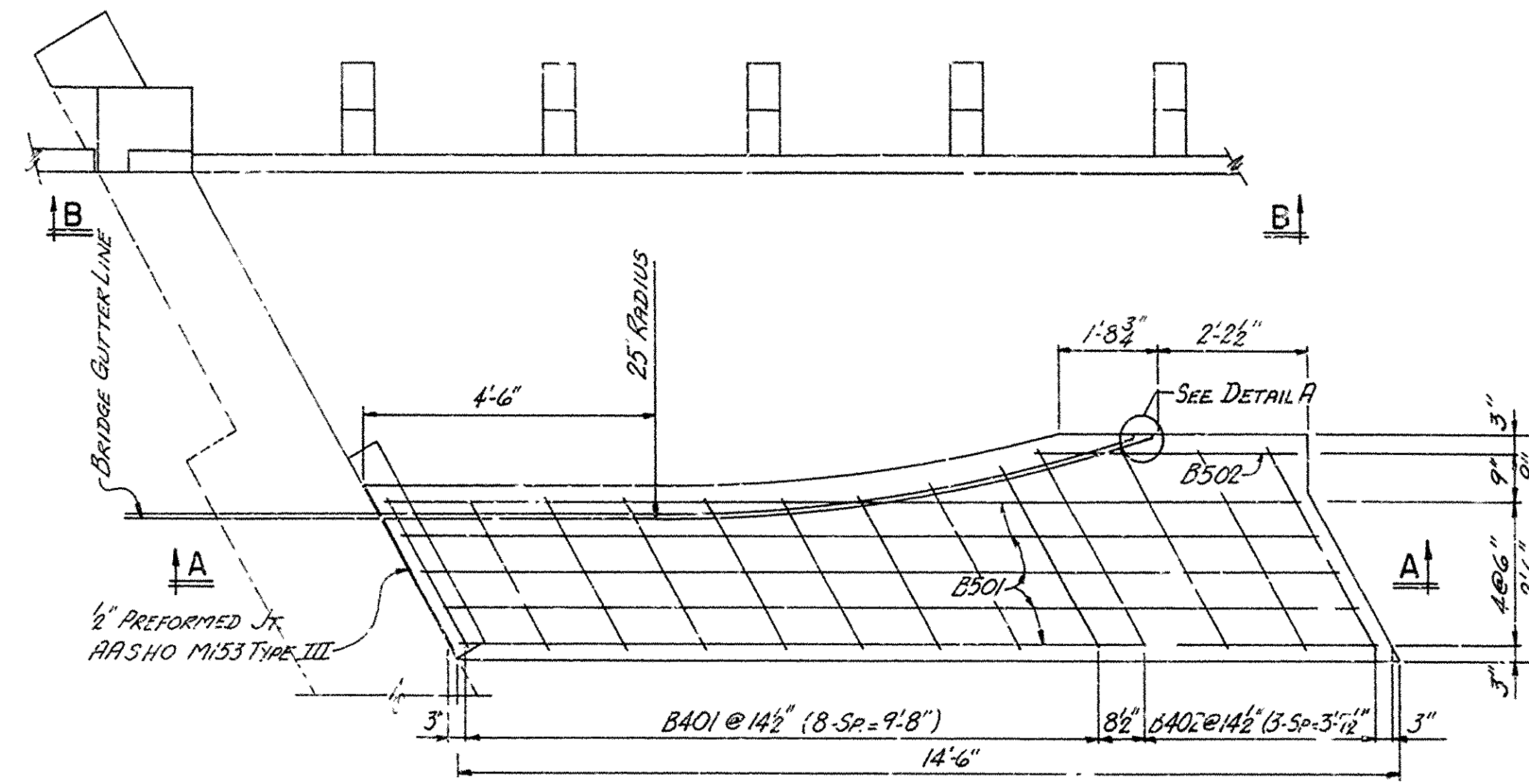
BAR LIST
FOR ONE GUTTER
BRIDGE 425A

MARK	NO REQD	LENGTH
B501	5	14'0"
B502	1	4'2"
B401	9	2'4"
S402	4	3'2"

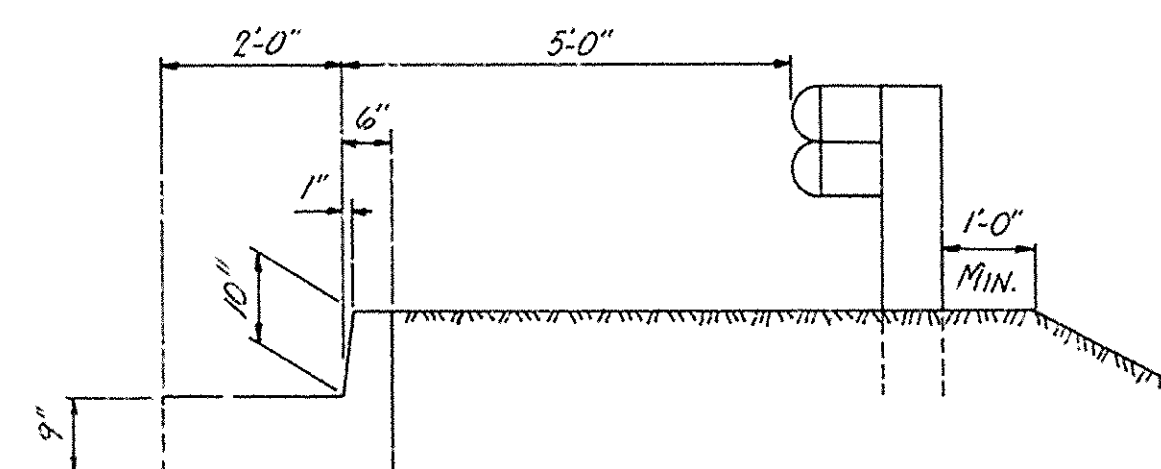
REINFORCING STEEL TO BE ASTM A615, GRADE 40.

FOR DETAILS OF POSTS, GUARD FENCE AND ATTACHMENT OF GUARD FENCE TO POSTS, SEE
JOB DETAILS PERTAINING TO THESE ITEMS

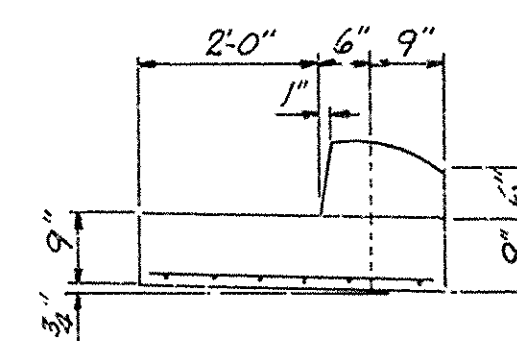
FOR DETAILS OF POSTS, GUARD FENCE AND ATTACHMENT OF GUARD FENCE TO POSTS, SEE
JOB DETAILS PERTAINING TO THESE ITEMS



PLAN OF N.E. APPROACH GUTTER (ONE SIDE)
FOR BRIDGE 425A



SECTION C-C



SECTION D-D

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Herbert Pinkerton
BRIDGE ENGINEER

BRIDGE NO. 424A & 425A DRAWING NO. 18196