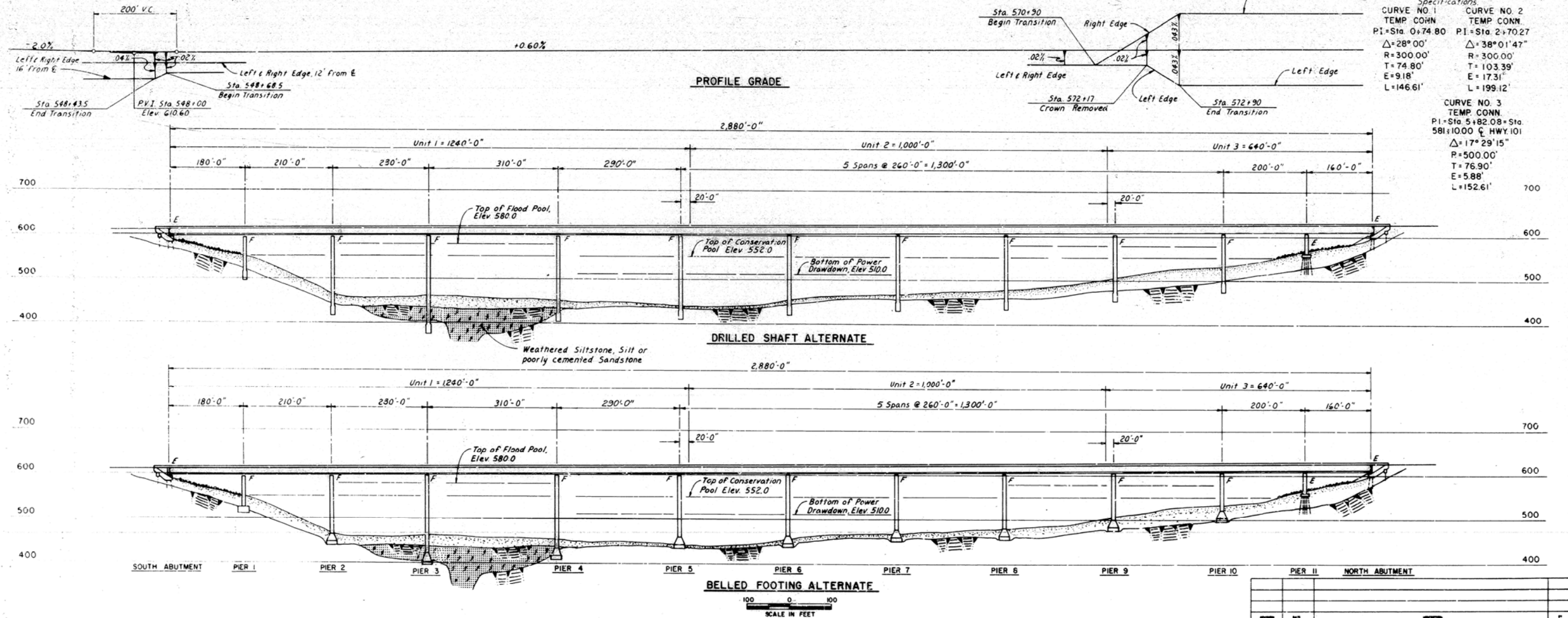
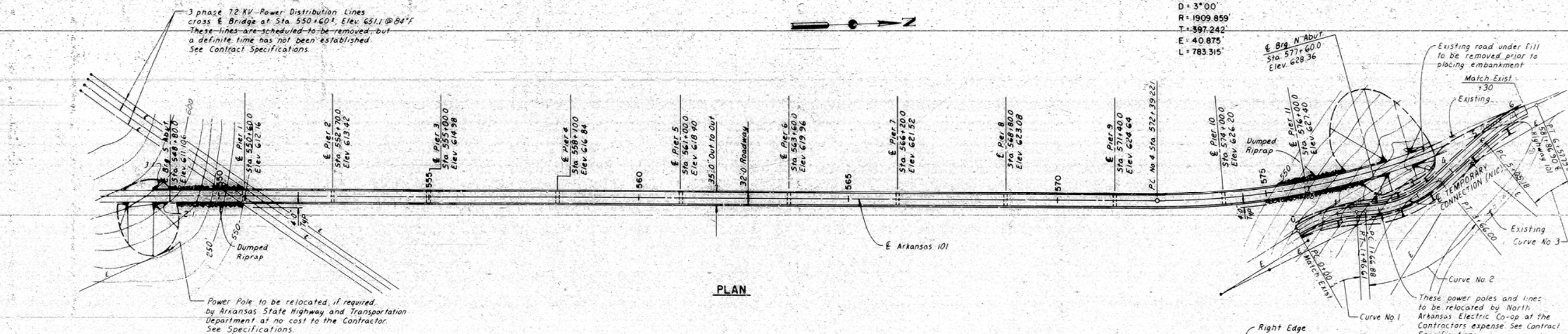


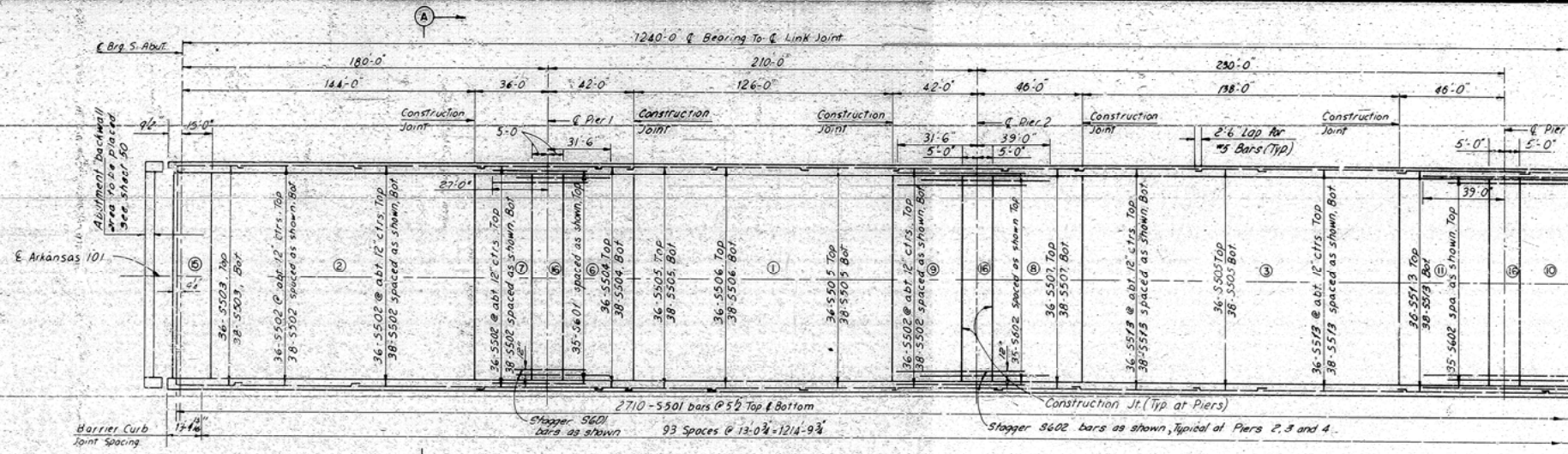
CURVE NO. 4
 $\Delta = 23^\circ 29' 58''$
 $D = 3^\circ 00'$
 $R = 1909.859'$
 $T = 397.242'$
 $E = 40.875'$
 $L = 783.315'$



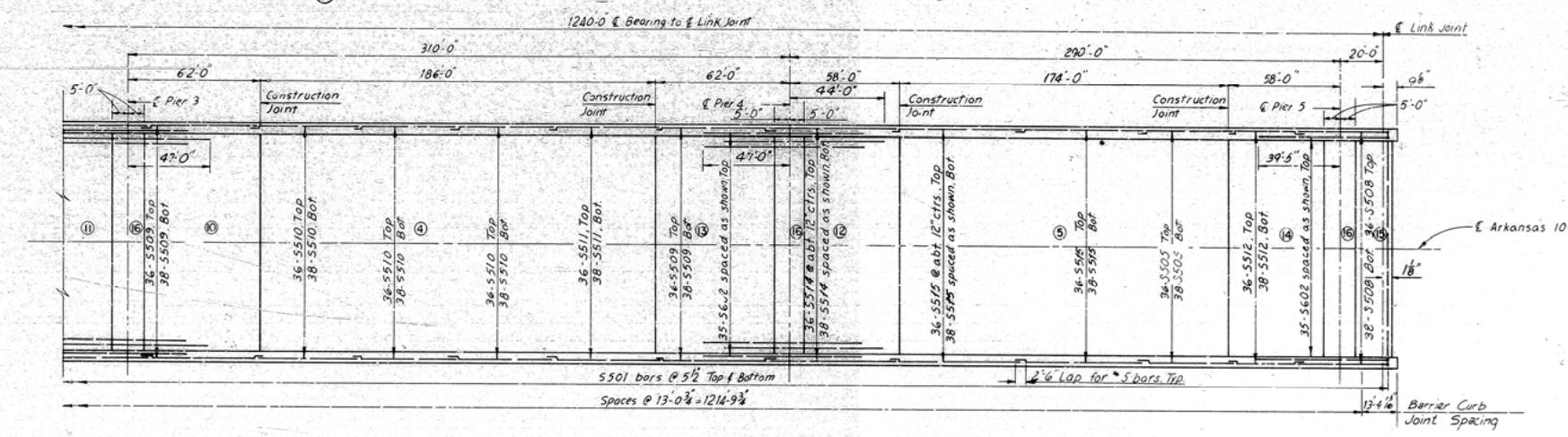
Notes:
All span lengths shown are design span lengths.
The Contractor will be responsible for determining
the as built span lengths by field measurements
prior to structural steel fabrication.
All dimensions are measured along E-Bridge.

Contract No 79-C-0055
RECORD DRAWING AS CONSTRUCTED
DATE 19 NOV 84
E. H. Lunter

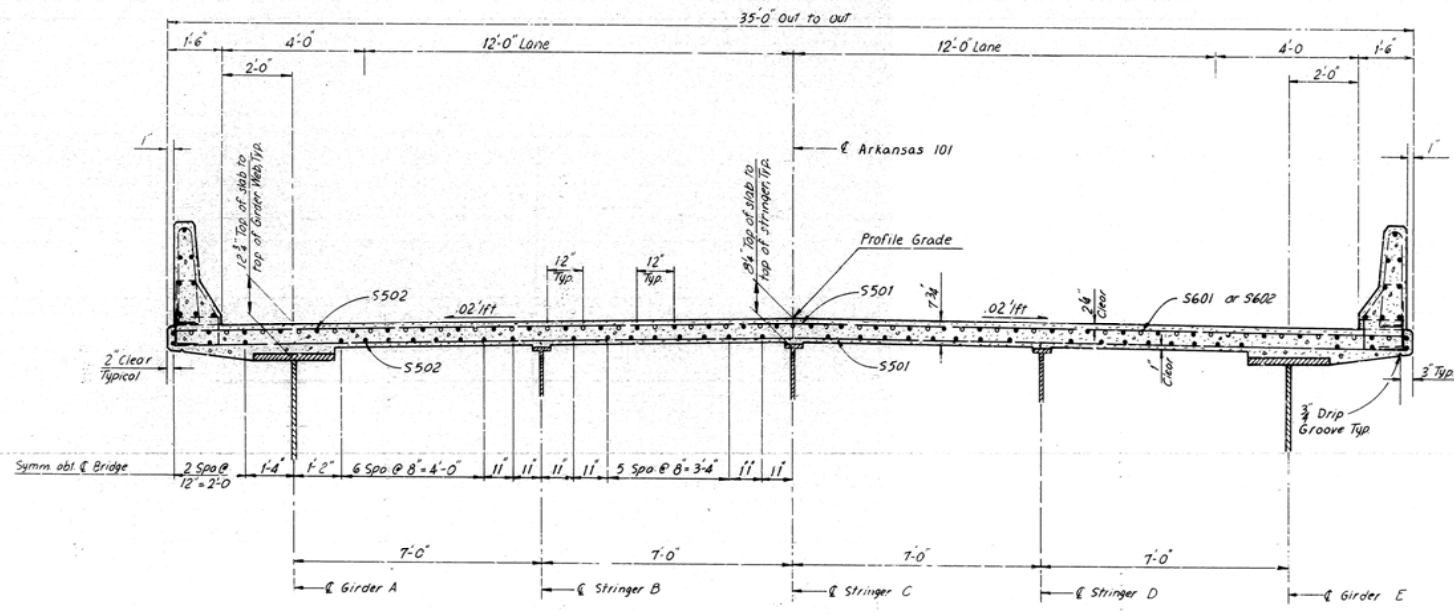
PROJECT NO.		DRAWING NO.	
DESIGN	DATE	DESCRIPTION	BY
HNTB HOWARD NEEDLES TAMM & BERENSON		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS	
DRAWING <u>HWL</u> SCALE <u>R/LB</u> CHECKED <u>GD</u> IN CHARGE <u>J.P.S.</u> APPROVED: <u>SEE 11</u>	WHITE RIVER AND TRIBUTARIES NORTH FORK RIVER, ARKANSAS NORFOLK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUPERSTRUCTURE ARKANSAS HIGHWAY 101 GENERAL PLAN AND ELEVATION		
PREPARED BY <u>James A. Smith</u> CHECKED BY <u>James A. Smith</u> DATE <u>10/1/55</u> IN CHARGE <u>John A. Ralston</u> APPROVED <u>[Signature]</u>	FEBRUARY 1979 SCALE AS SHOWN INV NO. ENG. 79-B-0019 9452-134/2768		



REINFORCING STEEL SCHEDULE									
MARK	NO. REQD.	LENGTH	TYPE	DIMENSIONS					
				A	B	C	D		
5502	296	34'-8"	Str.						
5503	74	60'-0"	Str.						
5504	74	33'-4"	Str.						
5505	74	18'-6"	Str.						
5506	246	43'-0"	Str.						
5507	74	42'-0"	Str.						
5508	74	28'-8"	Str.						
5509	74	44'-0"	Str.						
5510	148	54'-8"	Str.						
5511	222	50'-0"	Str.						
5512	74	50'-6"	Str.						
5513	222	51'-0"	Str.						
5514	74	36'-2"	Str.						
5515	148	69'-0"	Str.						
5601	35	47'-0"	Str.						
5602	140	60'-0"	Str.						



PLAN
No Scale

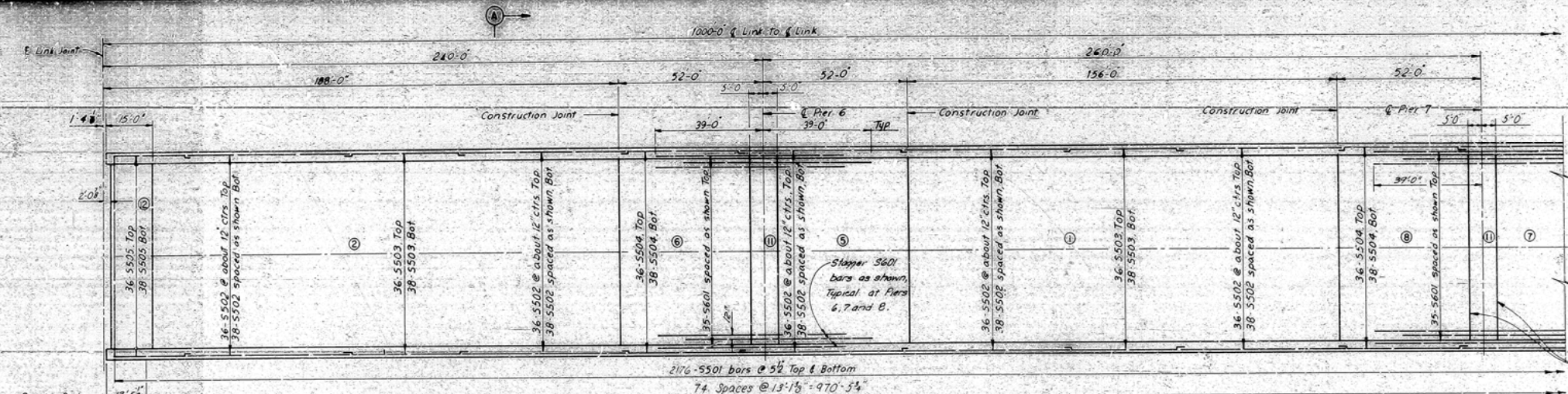


SECTION A-A
SCALE IN FEET

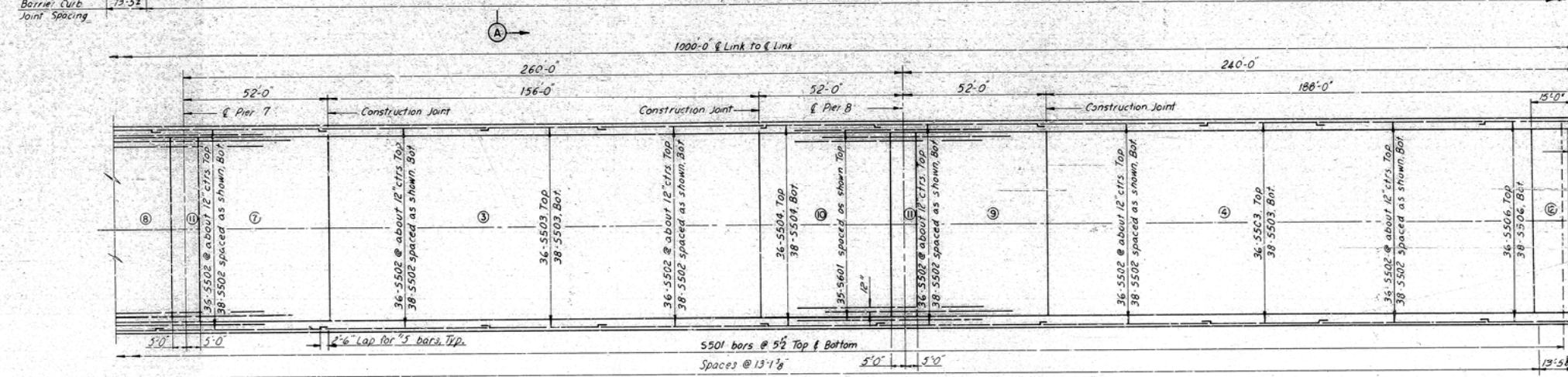
Notes:
③ denotes the slab pouring sequence for the bridge. Pour number 14 shall not be placed until pour number 2 of Unit 2 is completed. The entire slab except for the 10' section over the piers shall be placed prior to prestressing the girder anchorage. See Expansion Joint sheets for additional details and additional reinforcing at ends of unit. Longitudinal and Transverse reinforcing shall be carefully placed at girder anchorages so as not to interfere with the prestressing operation. The longitudinal #5 bars may be cut and lap spliced if desired, any additional reinforcing required shall not be included for payment.

Contract No. 79-C-0055
RECORD DRAWING AS CONSTRUCTED
DATE 19-NOV-82
[Signature]

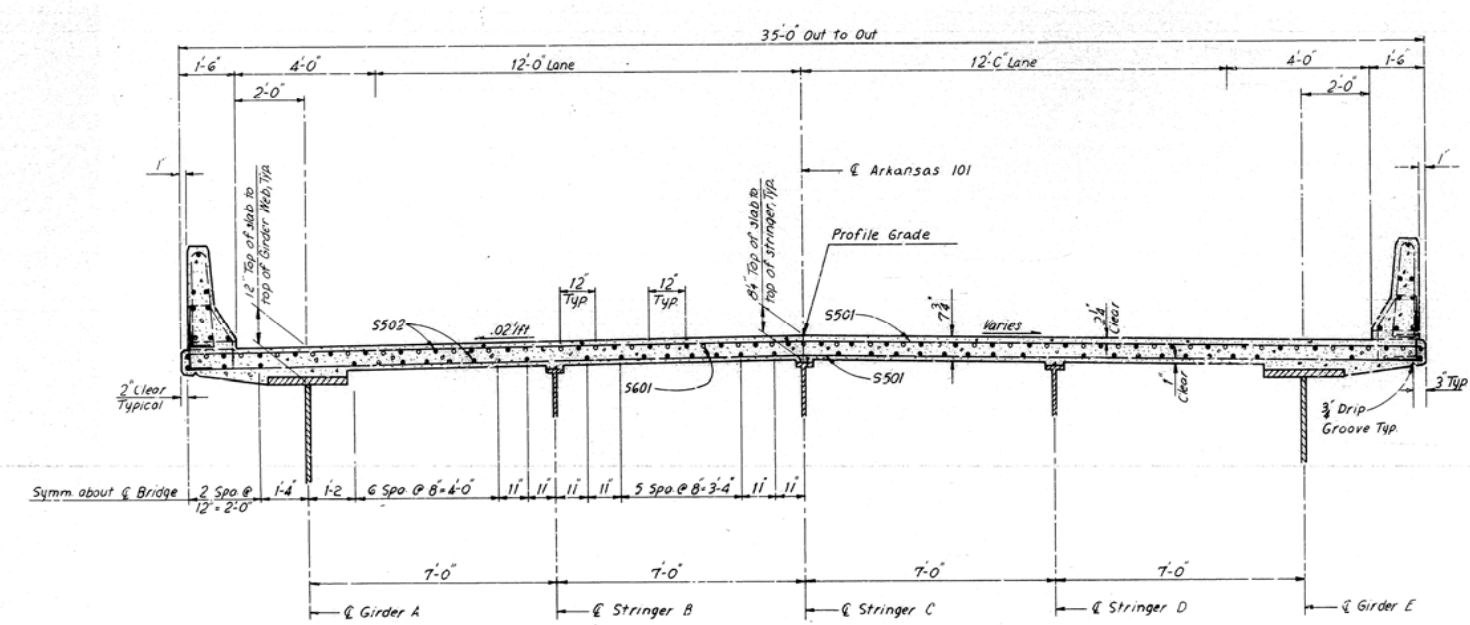
HNTB HARWARD NEEDLES TRASK & BERNARDSON		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS	
PROJECT: BLC	WHITE RIVER AND TRIBUTARIES	NORTH FORK RIVER, ARKANSAS	
SHEET: STK	NORFOLK LAKE HIGHWAY BRIDGES		
DESIGN: GD	BAXTER COUNTY, ARKANSAS		
DATE: JRS	SUPERSTRUCTURE		
	ARKANSAS HIGHWAY 101		
	SLAB PLAN UNIT I		
<i>[Signature]</i>		FEBRUARY 1979	
<i>[Signature]</i>		SCALE AS SHOWN	
<i>[Signature]</i>		REV. NO. ENG. 79-B-0019	
		80 OF 85	
		9452-134/2780A	



REINFORCING STEEL SCHEDULE							
MARK	NO REQ'D	LENGTH	TYPE	DIMENSIONS			
				A	B	C	D
S501	432	34'-8"	Str.				
S502	814	60'-0"	Str.				
S503	296	48'-0"	Str.				
S504	222	44'-6"	Str.				
S505	74	30'-0"	Str.				
S506	74	29'-6"	Str.				
S601	105	60'-0"	Str.				
	</						



Notes:
③ denotes slab pouring sequence for the bridge.
The entire slab except for the 10' section over the piers shall be placed prior to prestressing the girder anchorage.
See Expansion Joint sheets for additional details and additional reinforcing at ends of unit.
Longitudinal and Transverse reinforcing shall be carefully placed at girder anchorages so as not to interfere with the prestressing operation. The longitudinal #5 bars may be cut and lap spliced if desired, any additional reinforcing required shall not be included for payment.



Contract No 79-C-0055
RECORD DRAWING AS CONSTRUCTED
DATE 19-NOV-82
[Signature]

HNTB HOWARD NEEDLES TAMM & BERENDSON		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS	
WHITE RIVER AND TRIBUTARIES NORFOLK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUPERSTRUCTURE ARKANSAS HIGHWAY 101 SLAB PLAN UNIT 2		NORTH FORK RIVER, ARKANSAS	
DESIGNED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DATE FEBRUARY 1979	SCALE AS SHOWN REV. NO. ENG 79-B-0019
DRAWN BY <i>[Signature]</i>		81 OF 85 9452-134/2781	

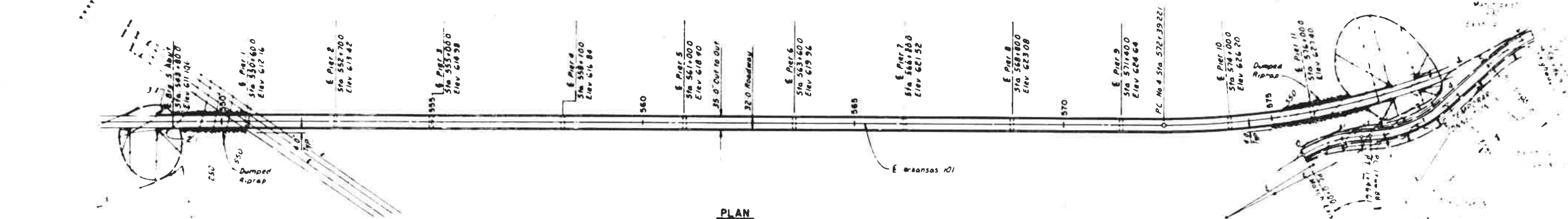
[illegible][illegible]

Hand-drawn cross-section diagram of a bridge deck for Arkansas 101. The diagram shows a 35'-0" wide deck with various components labeled. The top surface is divided into lanes: 1'-6" on the left, 4'-0" lane, 12'-0" lane, 12'-0" lane, 4'-0" lane, and 1'-6" on the right. The bottom shows stringers: E Girder A, E Stringer B, E Stringer C, E Stringer D, and E Girder E. Reinforcement includes 2 Sp. @ 12'-2.0" at the ends and 6 Sp. @ 8'-4.0" in the middle. Other labels include "Profile Grade", "8 1/4" Top of slab to top of stringer Typ", "Varies", "S502", "S601 or S602", "S501", "2 1/2" Clear", "1" Clear", "3/4" Drip groove Typ", and "3" Typ".

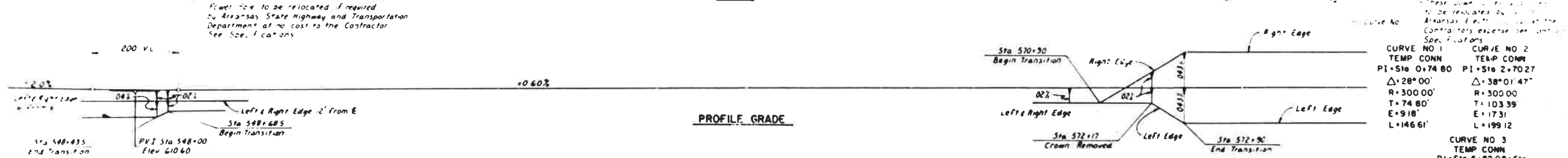
PROJECT		DATE		SECTION		BY	
HNTB HOWARD NEEDLES TAMMEN & BERENDSON				U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS			
DESIGNED <i>DCH</i>		WHITE RIVER AND TRIBUTARIES		NORTH FORK RIVER, ARKANSAS			
CHECKED <i>MAJ</i>		NORFORK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUPERSTRUCTURE ARKANSAS HIGHWAY 101 SLAB - PLAN UNIT 3					
DRAWN <i>GD</i>							
EXAMINED							
APPROVED							
PROJECT NO. 42							
DESIGNED <i>Edward G. Buckwalter</i> (SEE SHEET 10 OF 12)		FEBRUARY 1979					
CHECKED <i>Norman A. Rejcek</i> (SEE SHEET 10 OF 12)		SCALE AS SHOWN		BY: <i>MD</i> 79-B-0019 100' 0"			
DRAWN <i>Ed Rejcek</i> (SEE SHEET 10 OF 12)		100' 0"		9452-134/2782			

Phase 7P & Power Distribution Lines
Cross & Bridge at Sta 550+00 Elev 651.12 AD
These lines are scheduled to be removed but
a definite time has not been established
See Contract Specifications

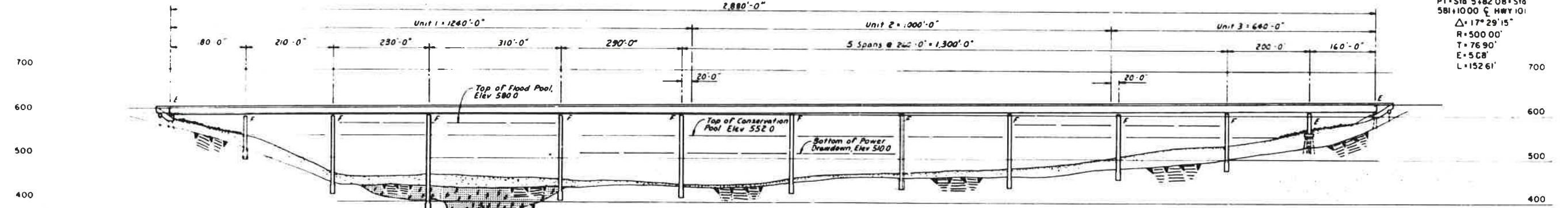
CURVE NO 4
Δ = 23° 29' 58"
D = 3° 00"
R = 1909.859
T = 397.242
E = 40.875
L = 793.315



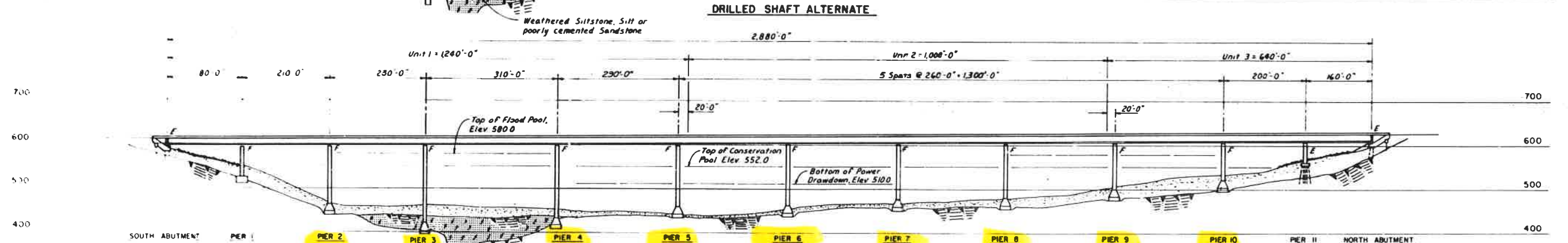
PLAN



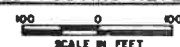
PROFILE GRADE



DRILLED SHAFT ALTERNATE



BELLED FOOTING ALTERNATE

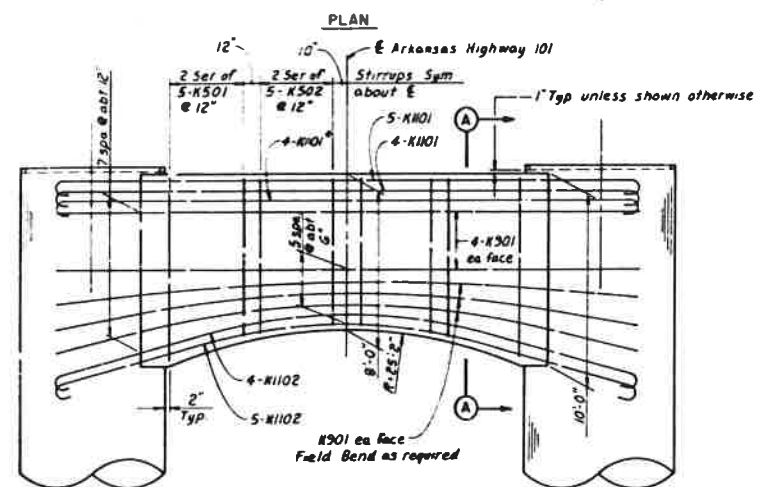
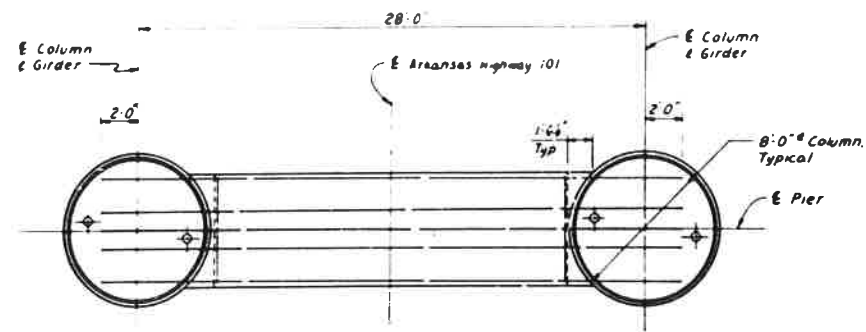


Notes
All span lengths shown are design span lengths
The Contractor will be responsible for determining
the as built span lengths by field measurements
prior to structural steel fabrication
All dimensions are measured along & Bridge

Contract No 79-C-0035
RECORD DRAWINGS CONSTRUCTED
DATE 12 NOV 82
C. E. L. L. L.

BR. No. 5769

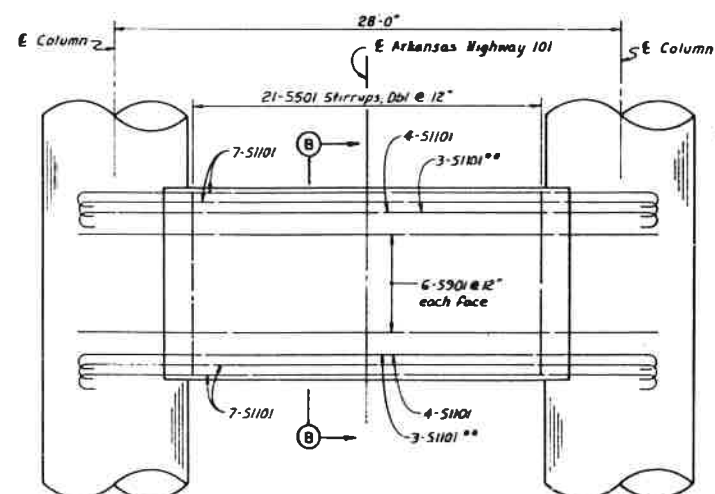
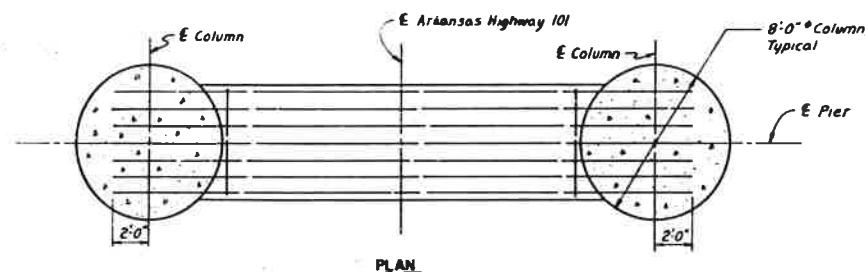
HNTB WHITE RIVER AND TRIBUTARIES NORFOLK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUPERSTRUCTURE ARKANSAS HIGHWAY 101 GENERAL PLAN AND ELEVATION		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS NORTH FORK RIVER, ARKANSAS FEBRUARY 1979 SCALE AS SHOWN 66 OF 85 9452-134/2768
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ELEVATION PIER CAP



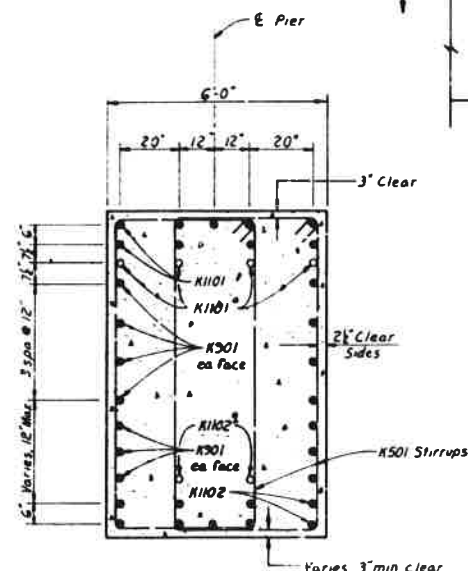
* Piers 1 & 11 only



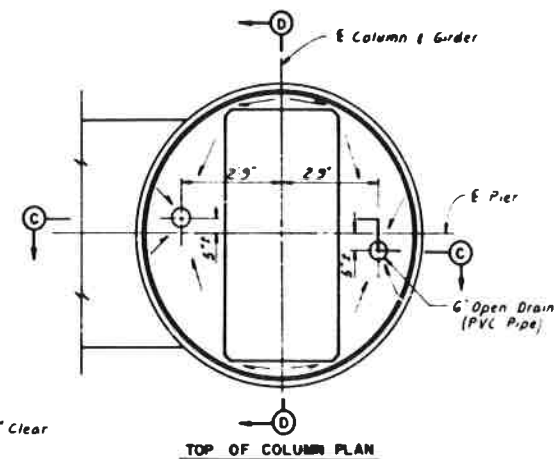
ELEVATION INTERMEDIATE STRUT



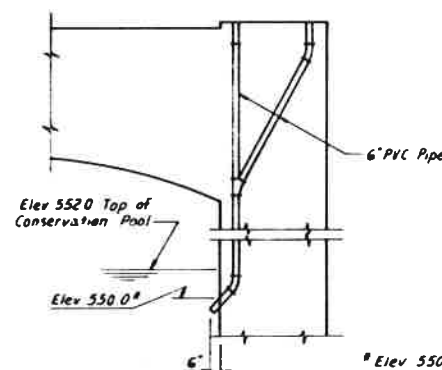
** Piers 3 & 4 only



SECTION A-A

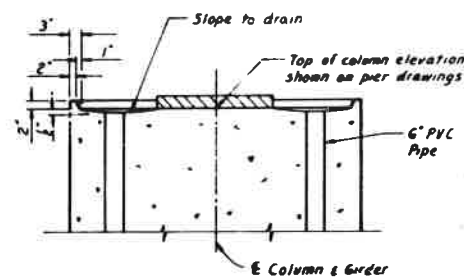


TOP OF COLUMN PLAN

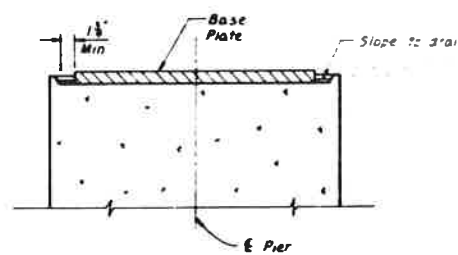


SCHEMATIC OF DRAIN PIPES

No Scale

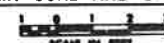


SECTION C-C



SECTION D-D

TOP OF COLUMN CURB AND DRAINAGE DETAILS



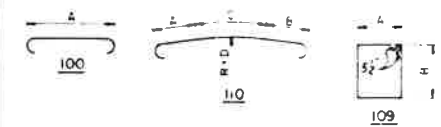
Note
Details shown for Type A Girder Anchorage Base Plates. Details for Type B Girder Anchorage Base Plates are the same except for the size of base plates. For expansion piers (Pier 1 US 62 and Pier 11, Ark 101), provide level surface with both dimensions 6' greater than dimensions of base plates shown on pier drawings.
Drains shall be checked and cleared of all obstructions after construction is completed.

Notes:
For General Notes see Sheet 3.
Intermediate Strut concrete shall be placed monolithically with column concrete.
Pier Cap concrete shall be placed monolithically with column concrete.
Reinforcing shown is for one Pier Cap or one Intermediate Strut only. Reinforcing and details shown is typical for all pier caps and intermediate struts unless otherwise indicated on the individual pier sheets.

REINFORCING STEEL SCHEDULE									
MARK	NO	REQ'D	LENGTH	TYPE	DIMENSIONS				
					A	B	C	D	
PIER CAP									
K1101	9	34'-2"	100	32-0					
K1102	9	35'-11"	110	7-9	7-9	7-9	25'-10"		
K501	4	32'-0"	50						
K502	4	35'-2"	100	3-11"	8'-2"	8'-2"			
K502	4	35'-2"	100	3-11"	7'-6"	7'-6"			
K1101	4	35'-2"	100	32-0					
K1102	2	35'-11"	110	7-9	7-9	7-9	25'-10"		
INTERMEDIATE STRUT									
S1101	36	35'-2"	100	32-0					
S501	12	32'-0"	50						
S501	42	27'-9"	100	3-11"	7'-6"	7'-6"			
S1101	6	35'-2"	100	32-0					

BENDING DIAGRAMS

* Piers 1 & 11 only
** Piers 3 & 4 only

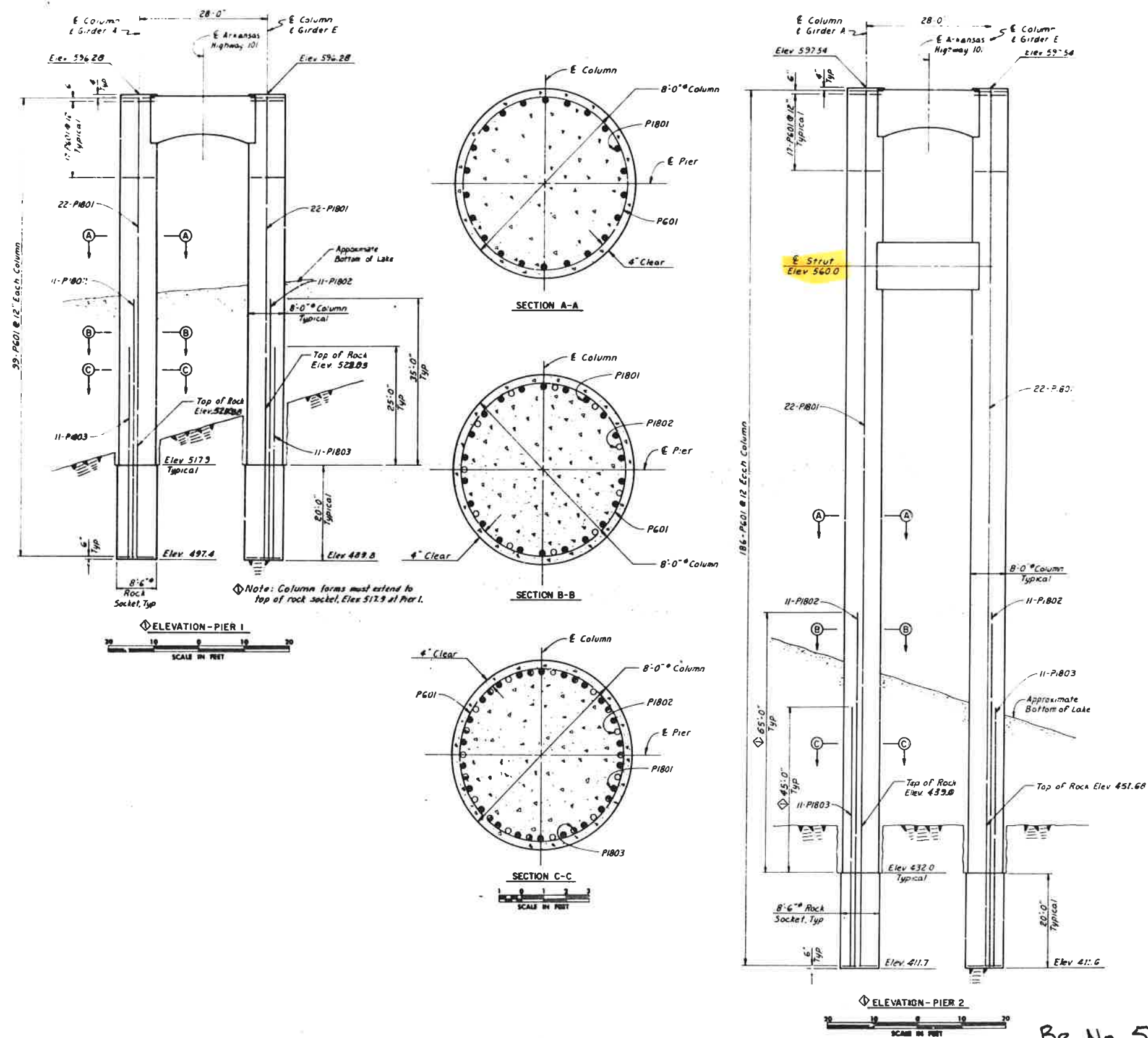


BENDING DIAGRAMS

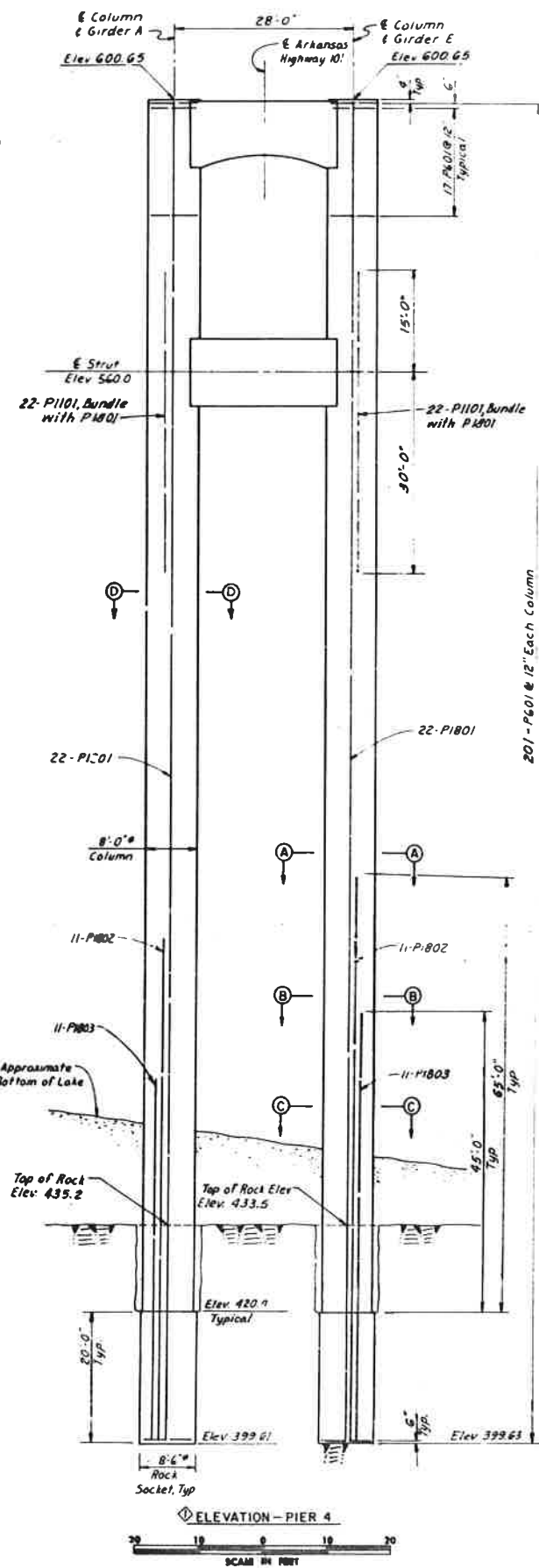
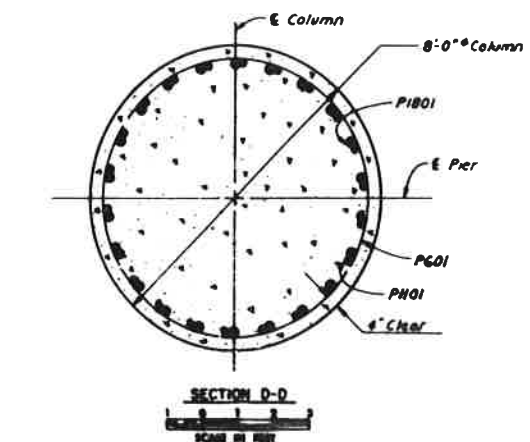
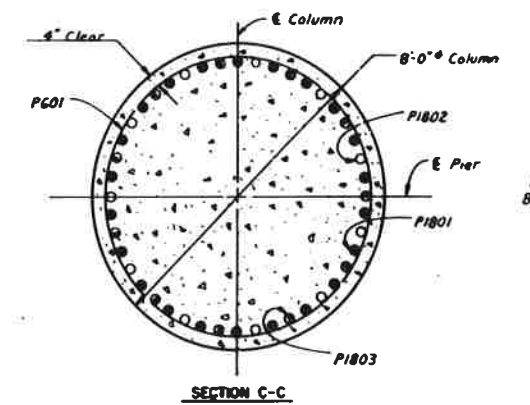
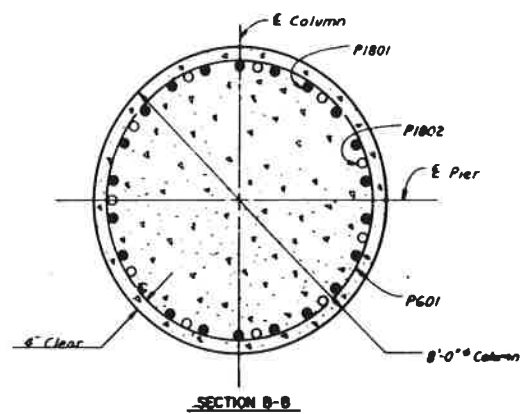
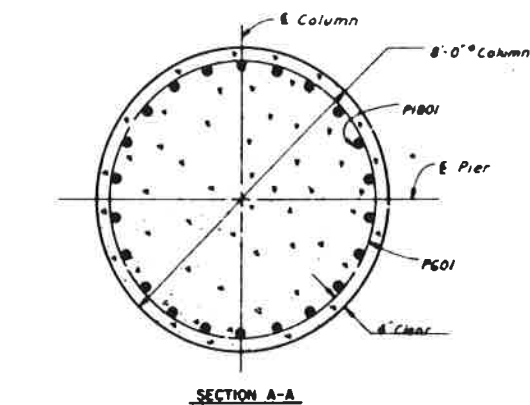
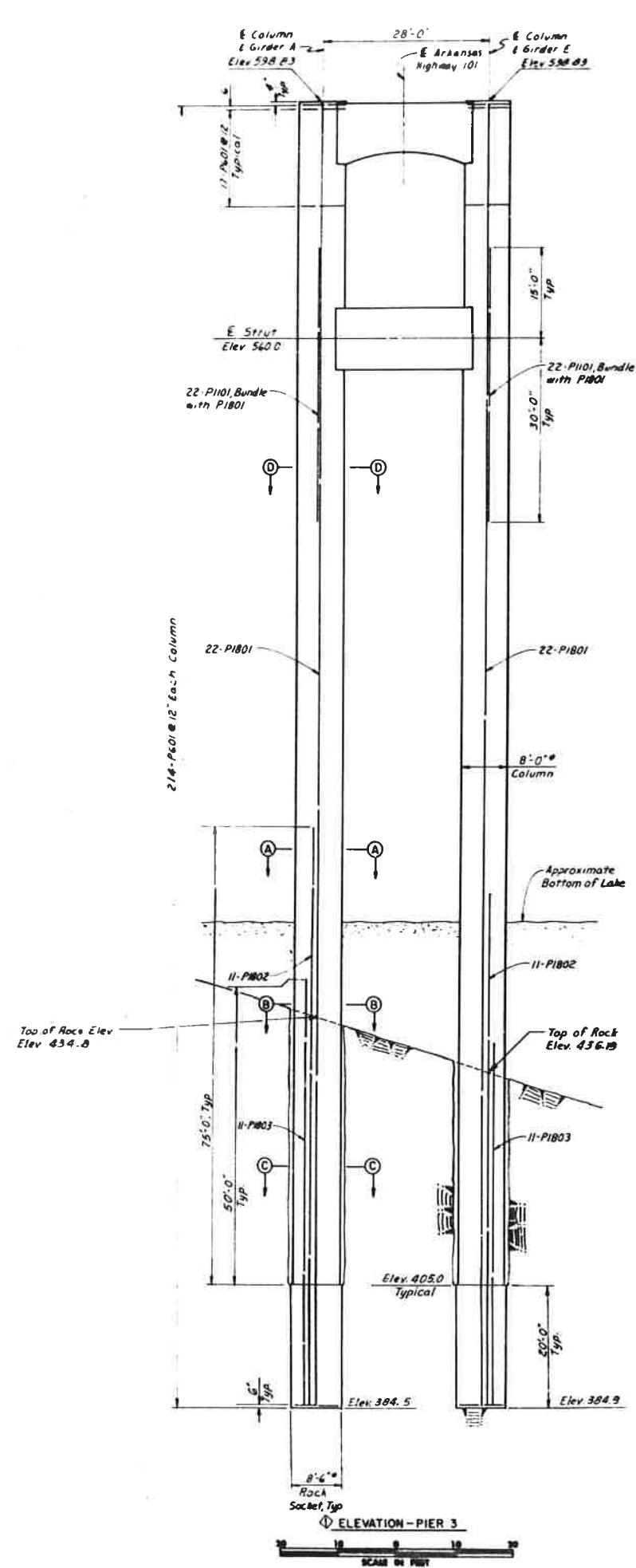
Contract No. 79-C-0055
RECORD DRAWING AS CONSTRUCTED
DATE 19-MAY-82
C. H. [Signature]

HNTB HANSEN, NORTON & THOMPSON, INC. ENGINEERS, ARCHITECTS & SURVEYORS 1000 P STREET, N.W. WASHINGTON, D.C. 20004		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS NORTH FORK RIVER, ARKANSAS NORFOLK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUBSTRUCTURE ARKANSAS HIGHWAY 101 PIER CAP AND STRUT DETAILS	
RLC RLB JLD [Signature]		FEBRUARY 1979 SCALE AS SHOWN SHEET NO. 79-B-009 8435-134/2734	

BR. No. 5769



Br. No. 5769

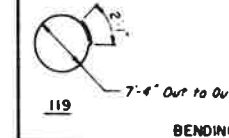


REINFORCING STEEL SCHEDULE							
MARK	NO REQ'D	LENGTH	TYPE	DIMENSIONS			
				A	B	C	D
① PIER 3							
P1801	44	25'-1"	Str				
P1802	22	45'-0"	Str				
P1803	22	21'-7"	Str				
P1804	22	95'-0"	Str				
P1805	22	70'-0"	Str				
① PIER 4							
P1801	44	25'-1"	Str				
P1802	22	200'-5"	Str				
P1803	22	85'-0"	Str				
P1804	22	65'-0"	Str				
P1805	44	45'-0"	Str				

7'-4" Out to Out

119

BENDING DIAGRAMS



Notes

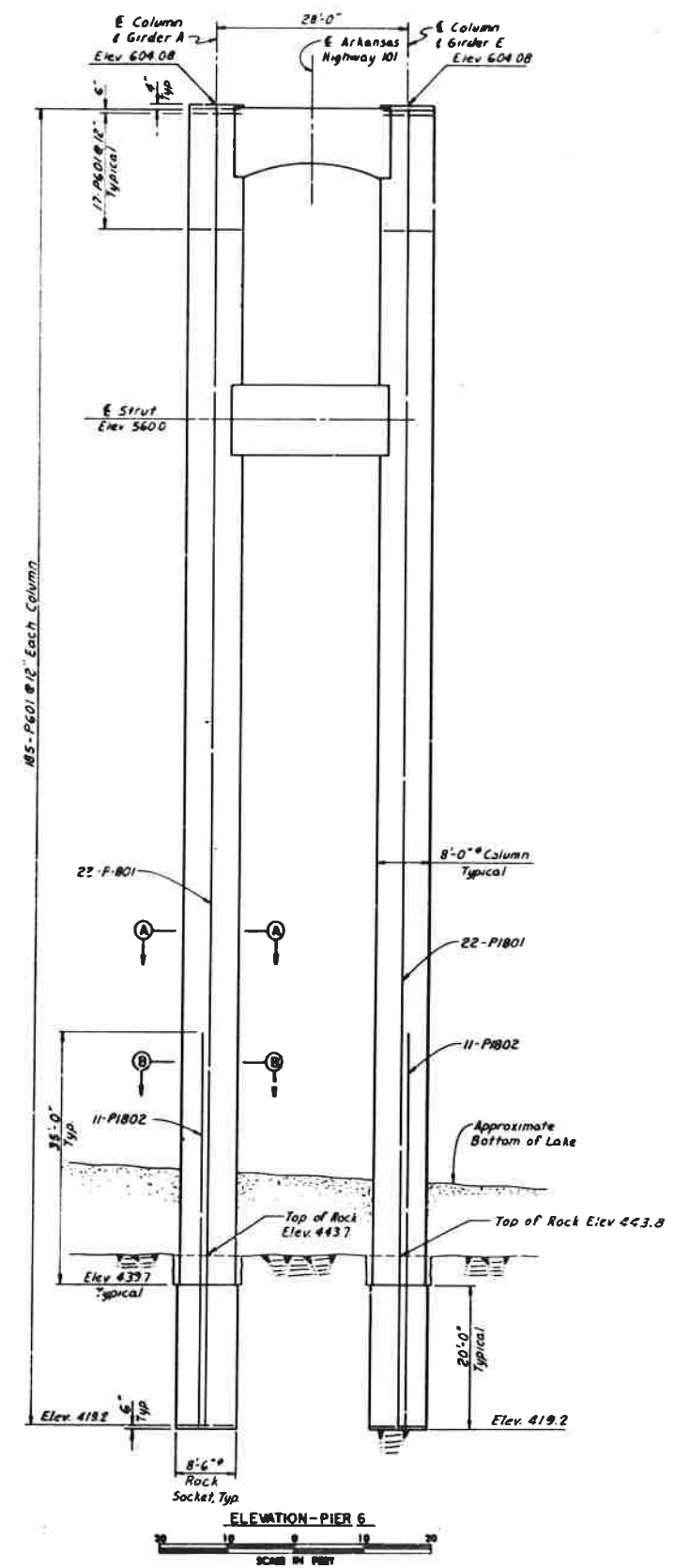
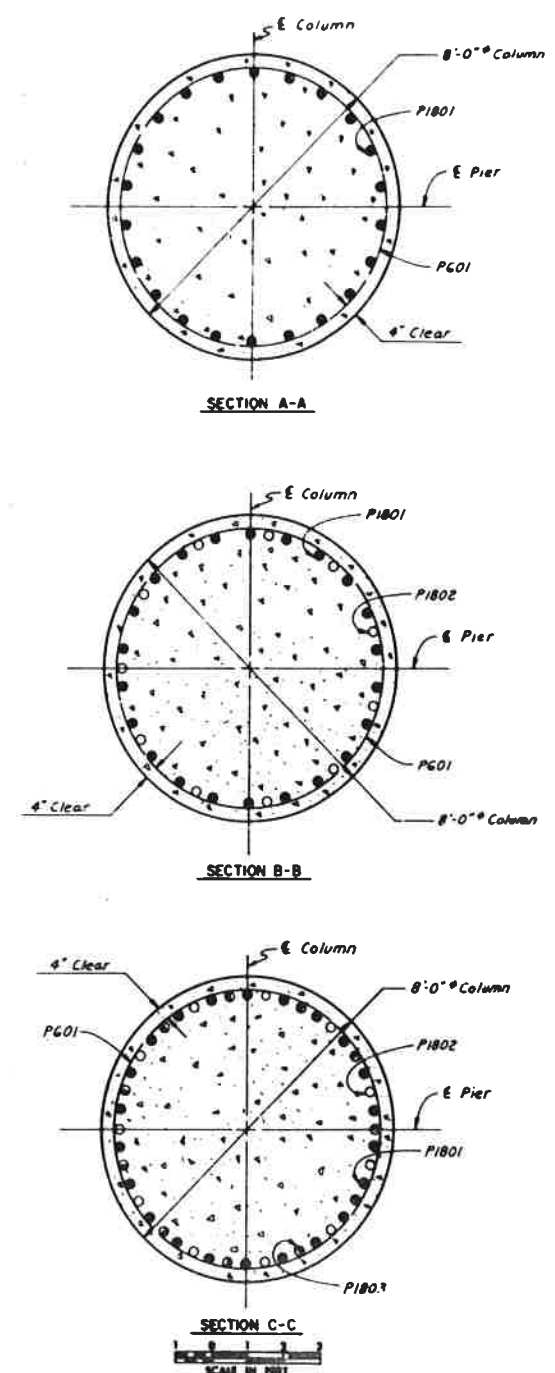
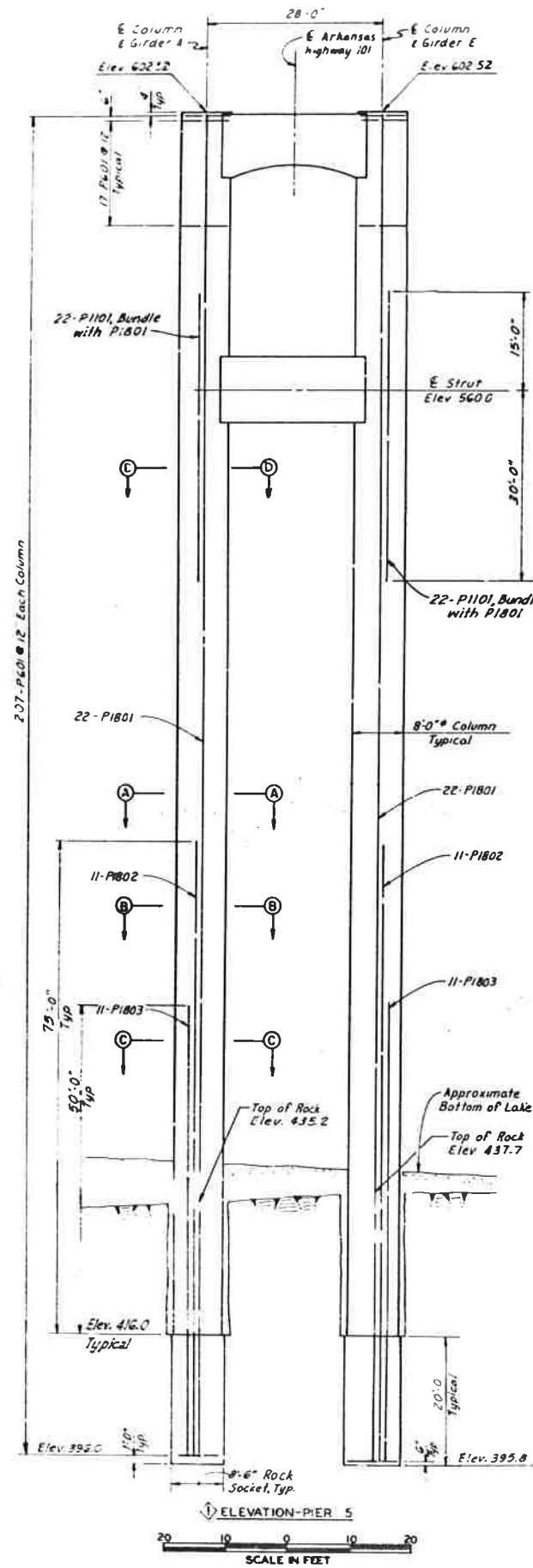
For per cap and intermediate strut details see Sheet 36.

For splice locations see General Notes.

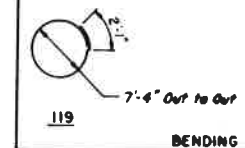
Elevation view is shown looking upstream.

For each pier the top of rock elevation noted is the elevation of the top of rock at the location of the exploratory borings. The top of rock elevation in the field will vary somewhat with the top of rock in the exploratory borings.

320-79	Rev. Piers 3 and 4, Steel Schedule, Amend No 3	JKP
HNTB HNTB ENGINEERING CORPORATION 1111 N. 10th St., Suite 100 Fort Worth, Texas 76102		
U.S. ARMY ENGINEER DISTRICT WHITE ROCK, ARKANSAS		
WHITE RIVER AND TRIBUTARIES NORTH FORK RIVER, ARKANSAS NORFOLK LAKE HIGHWAY BRIDGES BAYVIEW COUNTY, ARKANSAS SUBSTRUCTURE ARKANSAS HIGHWAY 101 PIERS 3 & 4 DRILLED SHAFT ALT.		
Contract No. 79-C-0053 RECORD DRAWING AS CONSTRUCTED DATE 19 NOV 82 BY H. H. H.		FEBRUARY 1979 DRAWN BY H. H. H. CHECKED BY H. H. H.
BR. No. 5769		9435 134/2736 38 OF 85



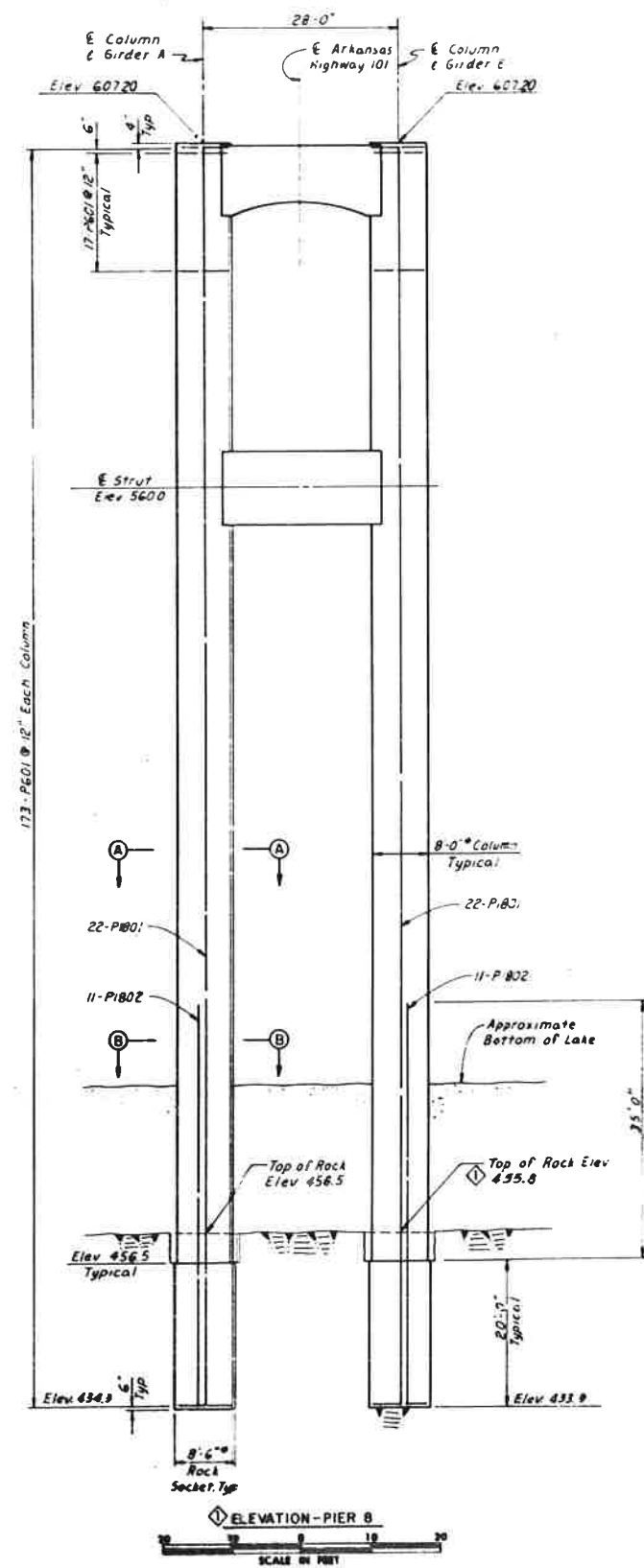
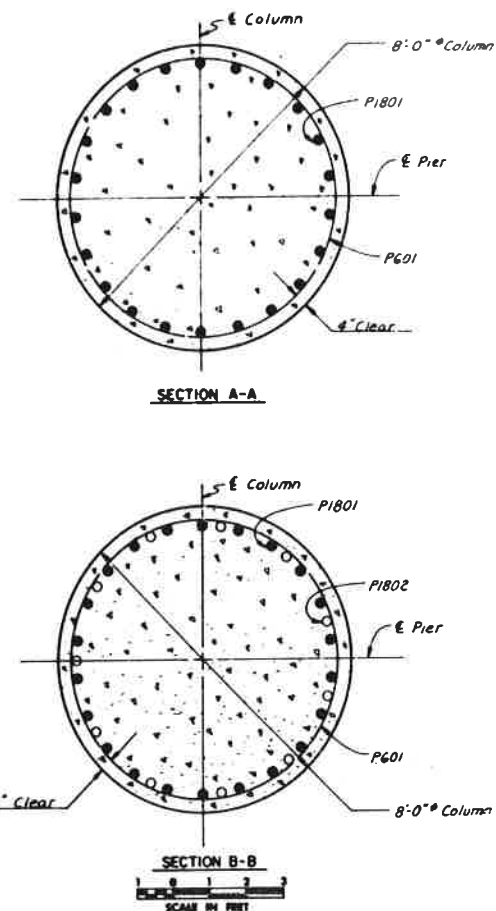
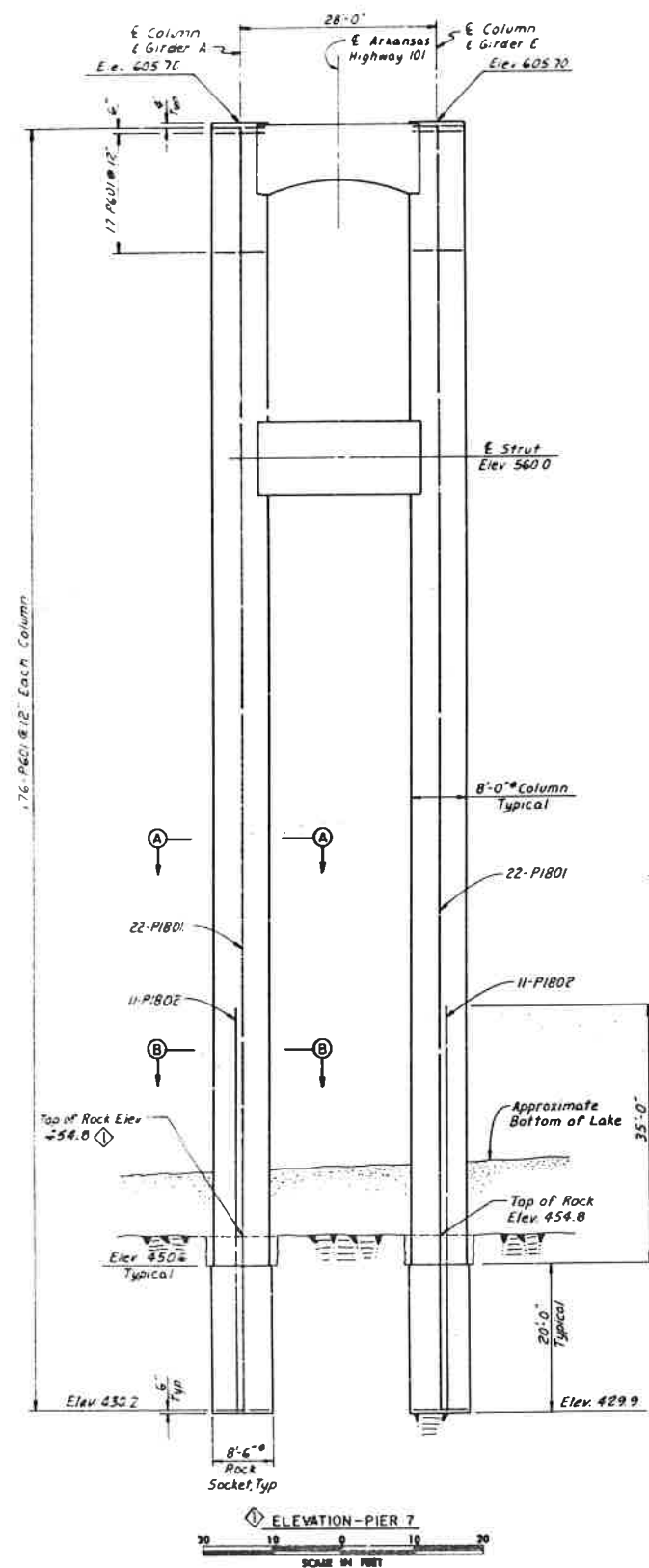
REINFORCING STEEL SCHEDULE									
MARK	NO	REQD	LENGTH	TYPE	DIMENSIONS				
					A	B	C	D	
PIER 5									
P601	448		25'-1"	119					
P1801	44		206'-3"	511					
P1802	22		95'-0"	511					
P1803	22		70'-0"	511					
P1101	44		45'-0"	511					
PIER 6									
P601	404		25'-1"	119					
P1801	44		184'-1"	511					
P1802	22		55'-0"	511					



Notes
For pier cap and intermediate strut details see Sheet 30.
For splice locations see General Notes.
Elevation View is shown looking upstation.
For each pier the top of rock elevation noted is the elevation of the top of rock at the location of the exploratory borings. The top of rock elevation in the field will vary somewhat with the top of rock line shown on the pier elevations.
Section D-D same as Section C-C on Sheet 30.

3-20-79	Rev. Pier 5 & Steel Schedule, Amend No. 3	112
HNTB Hatch, Nott & Trenchard, Inc. ENGINEERS, ARCHITECTS, PLANNERS & SURVEYORS		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS
WHITE RIVER AND TRIBUTARIES NORTH FORK RIVER, ARKANSAS		
NORFOLK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS		
SUBSTRUCTURE ARKANSAS HIGHWAY 101 PIERS 5 & 6 DRILLED SHAFT ALT		
Contract No. 79-C-0055 RECORD DRAWING AS CONSTRUCTED DATE 18-MAY-82 <i>C. R. [Signature]</i>		FEBRUARY 1979 SCALE AS SHOWN BY NO. ENG 70-0-009 9435-134/2737 37 OF 80

BR. No. 5769



Contract No 79-C-0055
RECORD DRAWING AS CONSTRUCTED
DATE 18-NOV-82

BR. No. 5769

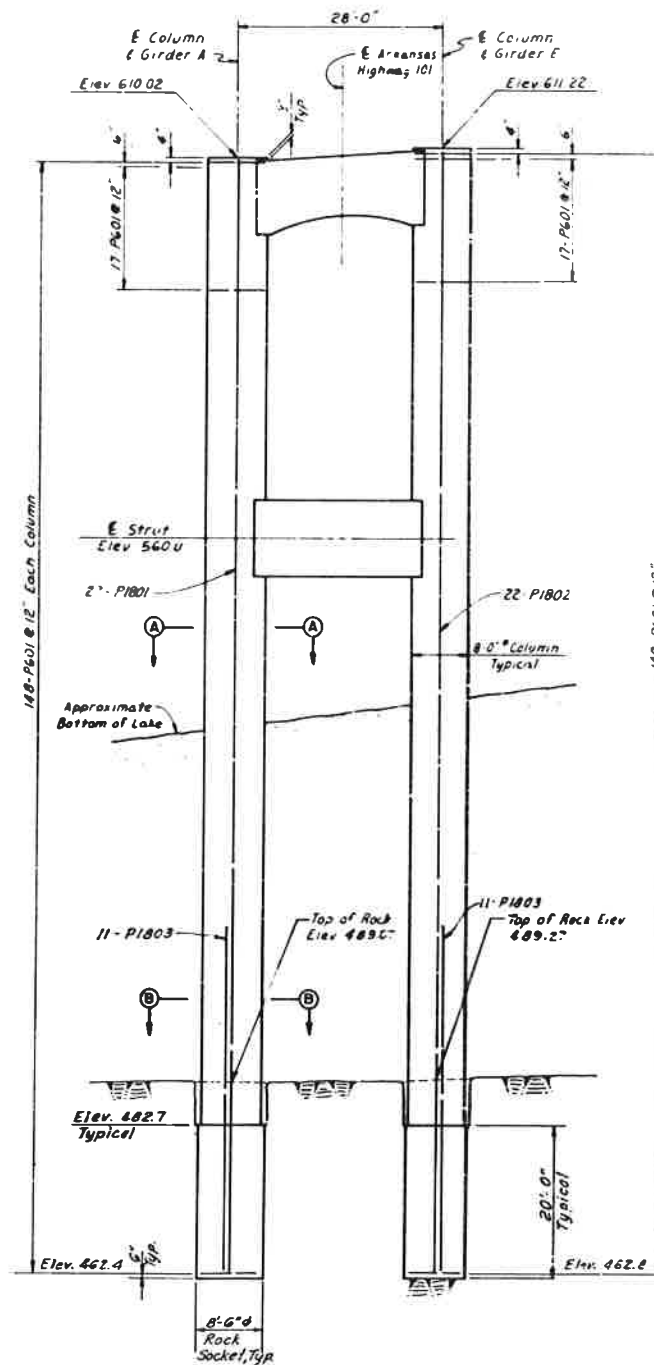
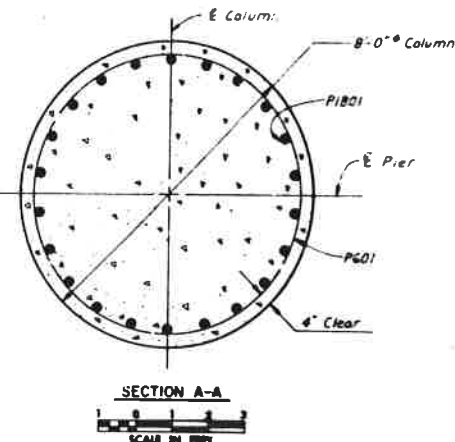
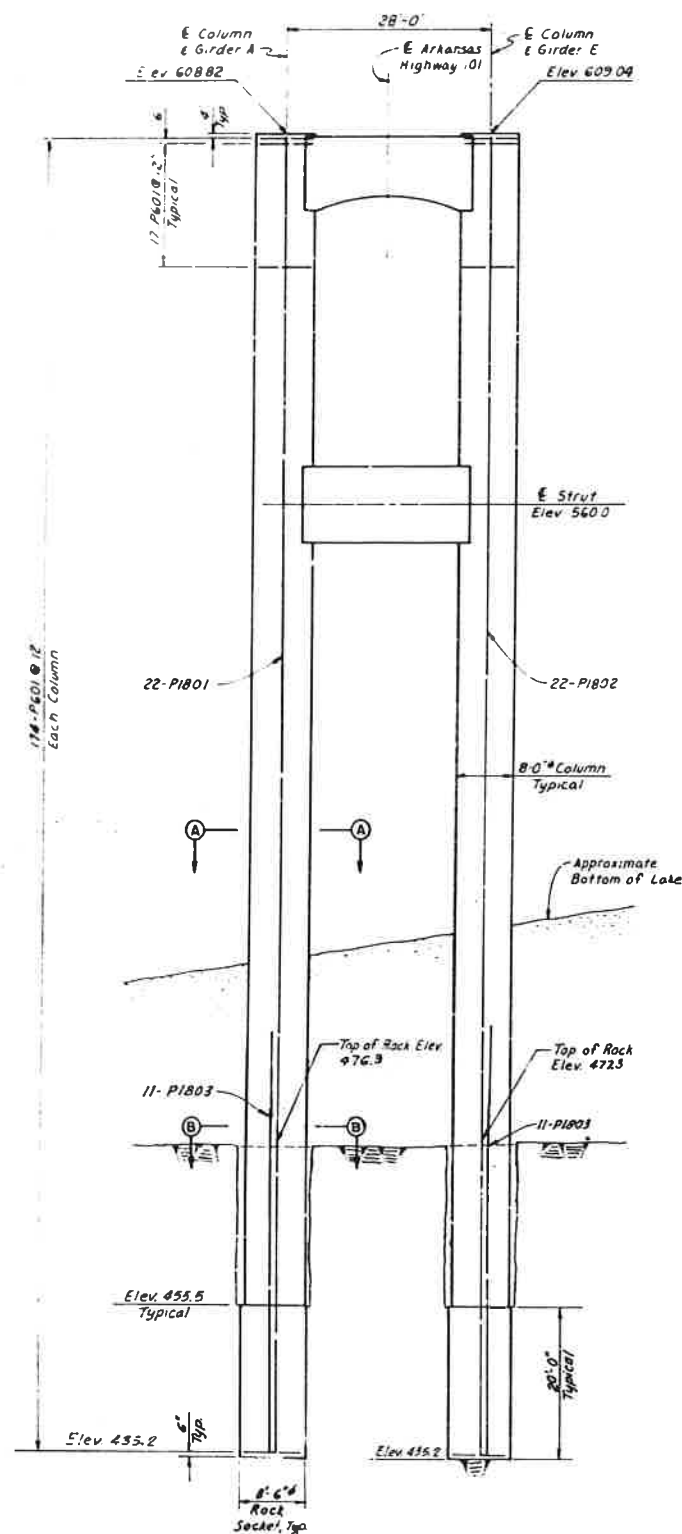
REINFORCING STEEL SCHEDULE									
MARK	NO	REQ'D	LENGTH	TYPE	DIMENSIONS				
					A	B	C	D	
PIER 7									
P601	386		25'-1"						
P1801	44		176'-10"	511					
P1802	22		55'-0"	511					
PIER 8									
P601	380		25'-1"						
P1801	44		172'-5"	511					
P1802	22		55'-0"	511					



BENDING DIAGRAMS

Notes:
For per cap and intermediate strut details see Sheet 39.
For splice locations see General Notes.
Elevation view is shown looking upstream.
For each pier the top of rock elevation noted is the elevation of the top of rock at the location of the exploratory borings. The top of rock elevation may vary somewhat with the top of rock elevation on the pier elevations.

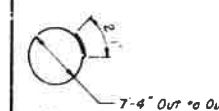
327-79 Added Elevation Piers 7 & 8 Amend No 3 JKP	
HNTB U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS WHITE RIVER AND TRIBUTARIES NORTH FORK RIVER, ARKANSAS NORFOLK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUBSTRUCTURE ARKANSAS HIGHWAY 101 PIERS 7 & 8 DRILLED SHAFT ALT.	
Contract No 79-C-0055 RECORD DRAWING AS CONSTRUCTED DATE 18-NOV-82	FEBRUARY 1979 SCALE AS SHOWN REV NO 100 79-2-0000 9435-134/2738 30 OF 85



REINFORCING STEEL SCHEDULE									
MARK	NO REQD	LENGTH	TYPE	DIMENSIONS					
				A	B	C	D		
PIER 9									
PG01	382	25'-1"	119						
PIB01	22	173'-2"	511						
PIB02	22	173'-4"	511						
PIB03	22	55'-0"	511						
PIER 10									
PG01	331	25'-1"	119						
PIB01	22	147'-1"	511						
PIB02	22	148'-3"	511						
PIB03	22	45'-0"	511						

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BENDING DIAGRAMS



Notes
For pier cap and intermediate strut details see Sheet 34.
For splice locations see General Notes.
Elevations shown are shown looking upstream.
For each pier the top of rock elevation noted is the elevation of the top of rock at the location of the exploratory borings. The top of rock elevation in the field will vary somewhat with the top of rock line shown on the pier elevations.
For Section B-B see Sheet 38.

Contract No. 79-0055
RECORD DRAWING AS CONSTRUCTED
DATE 18 MAY 82
C. H. Smith

3-20-79	Rev. Piers 9 & 10 and Steel Schedule Amend No 3	JLP
HNTB		
U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS		
WHITE SPRING AND TRIBUTARIES NORTH FORK RIVER, ARKANSAS		
NORFOLK LAKE HIGHWAY BRIDGES		
BAXTER COUNTY, ARKANSAS		
SUBSTRUCTURE		
ARKANSAS HIGHWAY 101		
PIERS 9 & 10 DRILLED SHAFT ALT.		
FEBRUARY 1979		
SCALE AS SHOWN		
REV NO 79-0-0055		
9435-134/2739		

BR. No. 5769