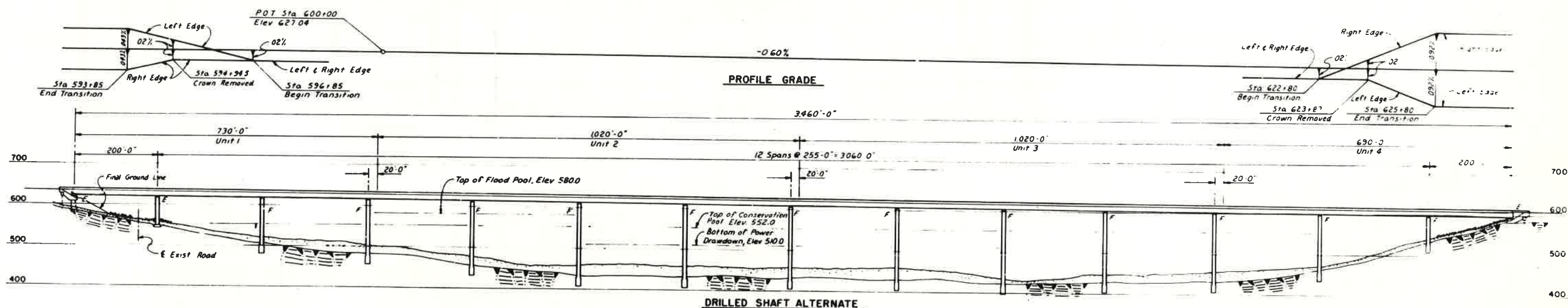
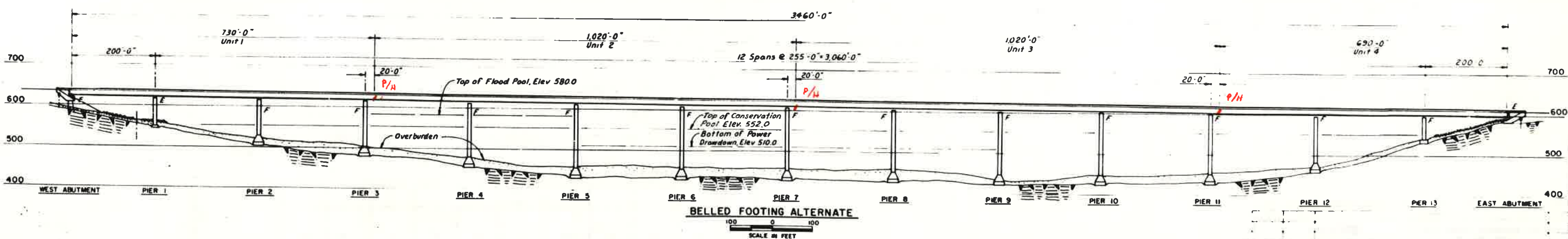


PLAN



DRILLED SHAFT ALTERNATE

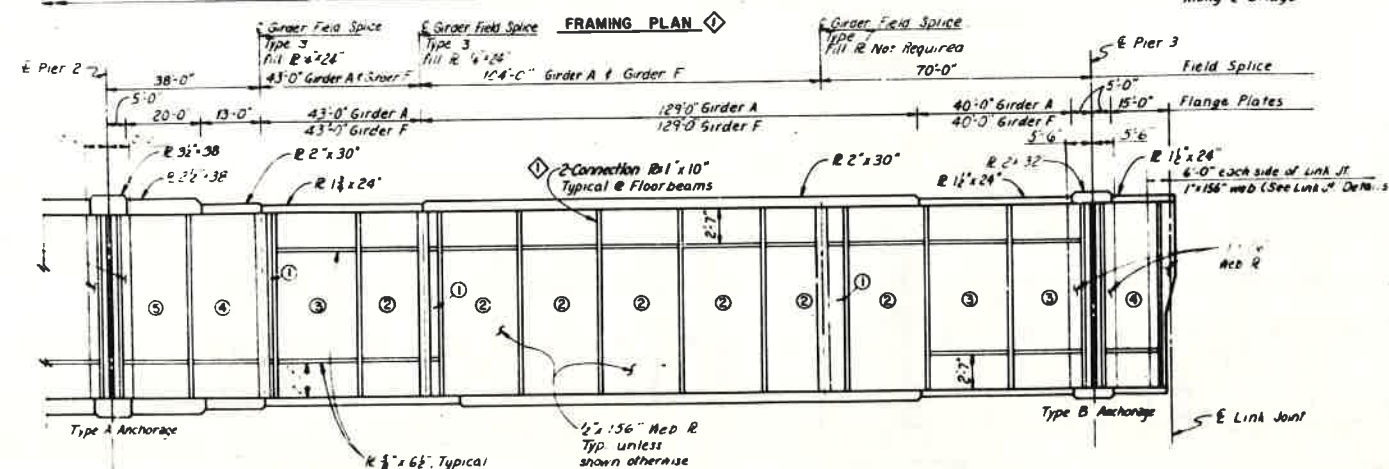
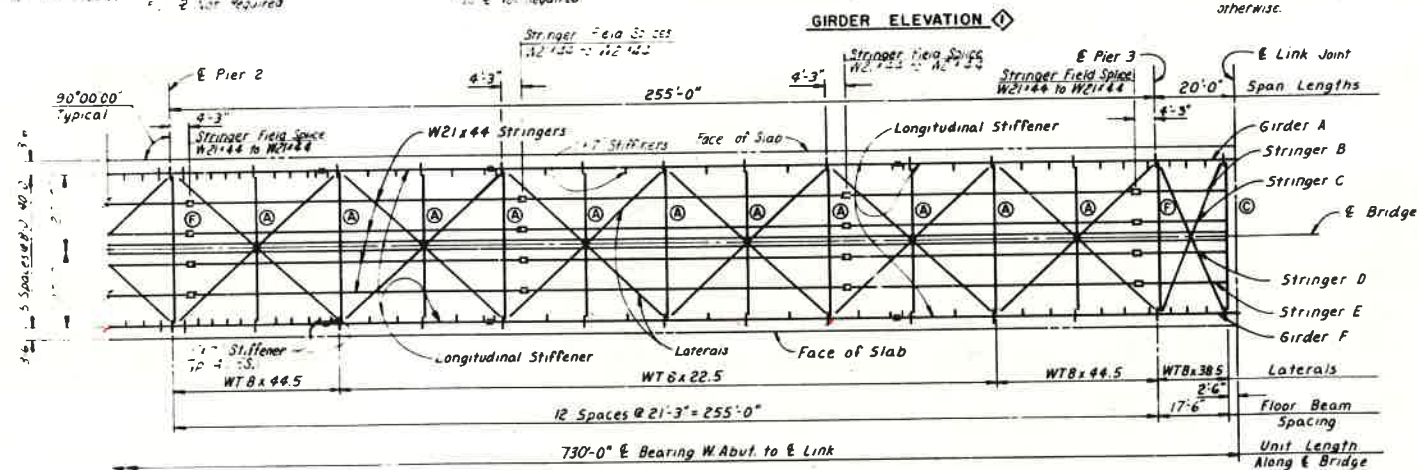
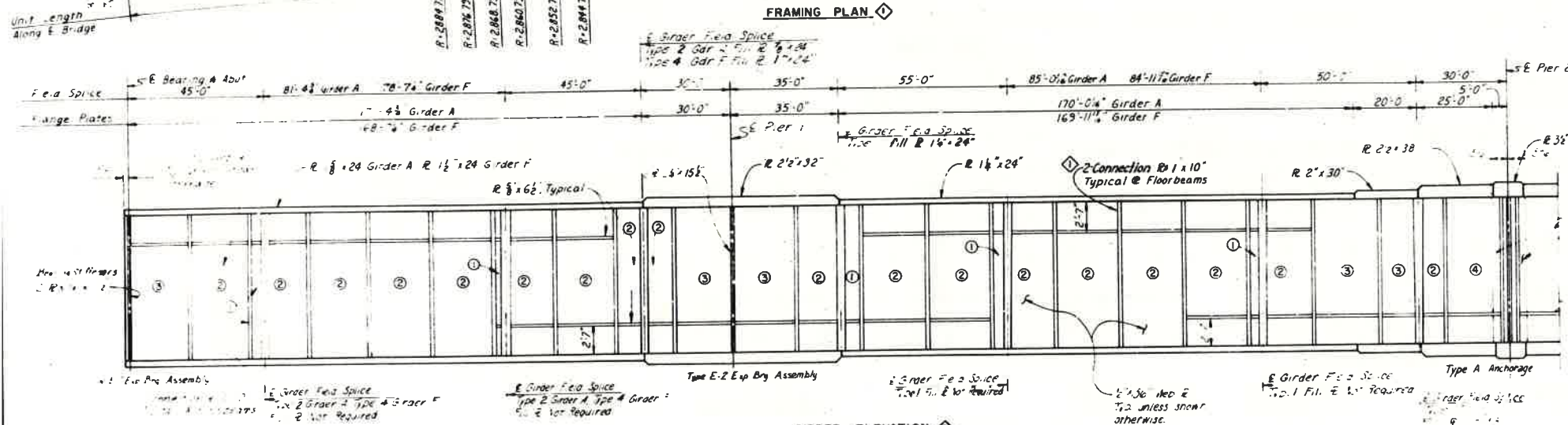


Notes

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 the bridge.

Contract No. 79-C-0058

HNTB Hatch, Nelson, Nelson & Nelson, Inc.		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS	
WHITE RIVER AND TRIBUTARIES		NORTH FORK RIVER, ARKANSAS	
NORFOLK LAKE HIGHWAY BRIDGES		BAXTER COUNTY, ARKANSAS	
SUPERSTRUCTURE		U.S. HIGHWAY 62	
GENERAL PLAN AND ELEVATION			



LEGEND

Interests are transverse and longitudinal stresses are in the inside of girder, except at floor beams.

Longitudinal stiffeners are to be placed at 30 ft on the 5' grade elevations.

- ① Denotes type of floorbeam to be used.
- ② Denotes the number of equal stiffeners per floorbeam.

Stiffener spaces between floorbeams = 30 ft - 10 ft = 20 ft

Stiffeners and floorbeams


A floorbeams are normal to E Bridge

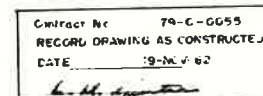
For type A & type B Anchorage deck, see sheet 27

The following described girder flanges are to be considered "outside" flange Members.

Flange through the length of the girder where the longitudinal stiffener is adjacent to the bottom flange and the bottom flange through the length of the girder where a longitudinal stiffener is adjacent to the top flange.

Control No 75-C-UC 55
RECORD CLASSIFIED AS CONFIDENTIAL
DATE 13-NOV-82
C. R. [Signature]

	3-20-79 <i>Stiffeners added, notes revised</i>	<i>Amend. No. 3</i>	<i>ALL</i>
HNFB HANDED FURNISHED TRANSPORTATION & EQUIPMENT		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS	
DATE <i>2-24</i> BY <i>R.B.</i> CHECKED <i>J.H.B.</i> APPROVED <i>J.P.S.</i> TITLE <i>AS</i>	WHITE RIVER AND TRIBUTARIES NORTH FORK RIVER, ARKANSAS NORFOLK LAKE HIGHWAY BRIDGES SARTON COUNTY, ARKANSAS SUPERSTRUCTURE U.S. HIGHWAY 62 FRAMING PLAN & GIRDER ELEV. UNIT 1		
<i>For G. C. Brubaker</i> <i>Howard A. C. C. C.</i>		FEBRUARY 1979 SCALE AS SHOWN SEE END SHEET 10-B-0019	



||||| = Five sense organs
 $\text{---} \text{---} \text{---}$ = Senses of the body

Notes:

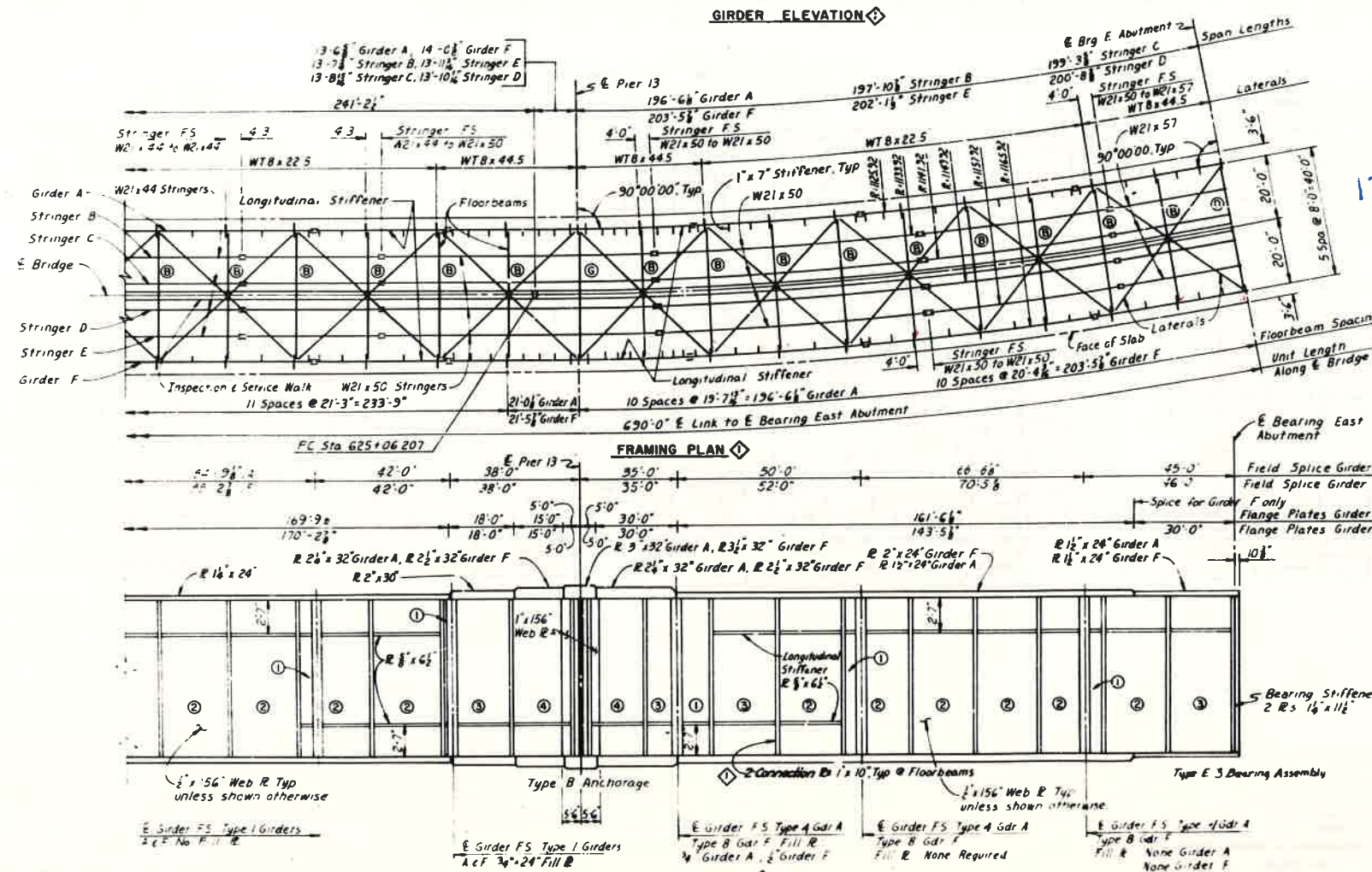
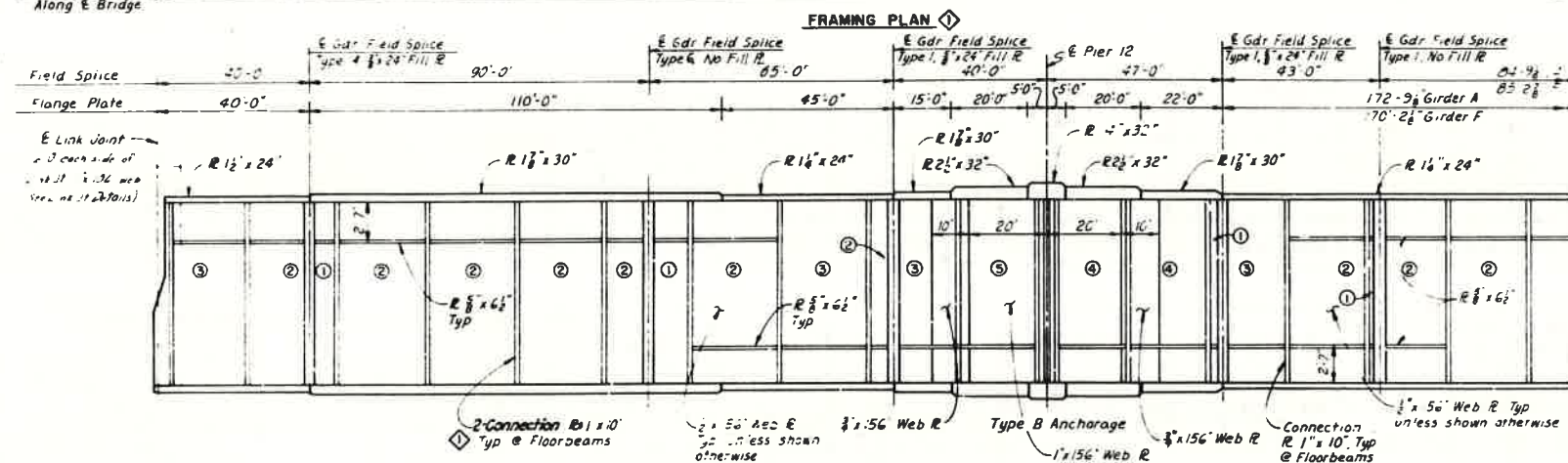
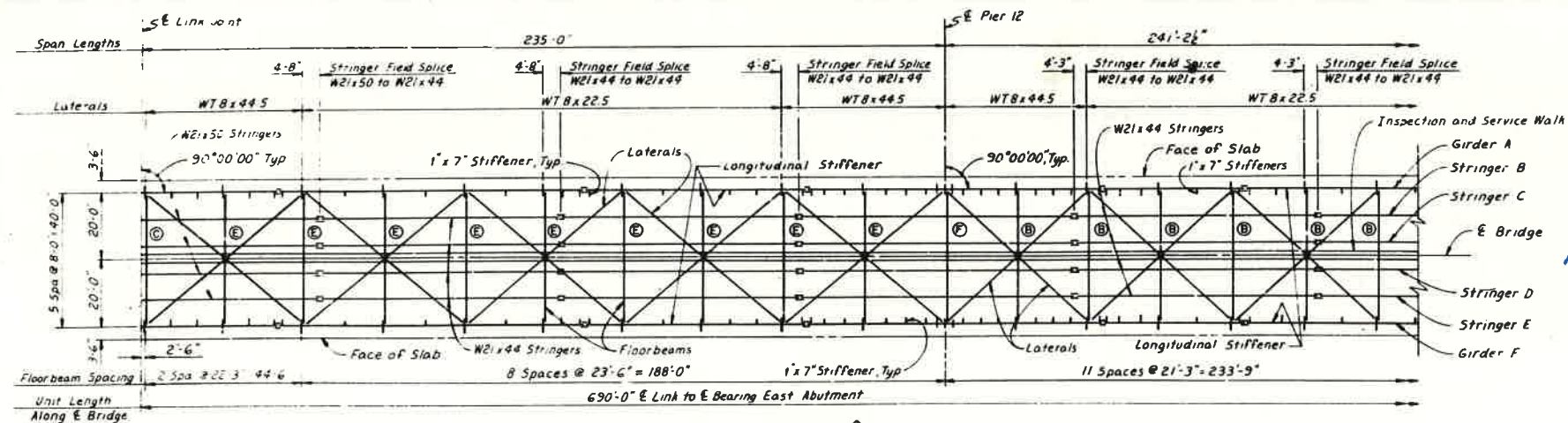
- ① Intermeds are transverse and longitudinal stiffeners are on the side of girder only, except at floor beams.
- ② Longitudinal stiffeners shall be located at snow on the Girders Elevations.
- ③ Denotes type of floorbeam to be used.
- ④ Denotes the number of equal intermeds are stiffener spaces between floorbeams or between a splice and floorbeams.

All floorbeams are normal to E Bridge.

For Type A & Type B Anchorage details see Sheet 47.

The following described girder flanges are to be considered Fracture Critical Members. When added to the portions described in the Specifications: the top flange thruout the length of the girder where a longitudinal stiffener is adjacent to the bottom flange and the bottom flange thruout the length of the girder where a longitudinal stiffener is adjacent to the top flange.

DATE	3-20-79	STIFFENERS ADDED, NOTES REVISED	AMEND. NO. 3	ALL
DESIGN	DATE	REVISIONS		
HNTB HANCOCK ENGINEERING, ARCHITECTS & SURVEYORS			U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS	
WHITE RIVER AND TRIBUTARIES NORFORK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUPERSTRUCTURE U.S. HIGHWAY 62			NORTH FORK RIVER, ARKANSAS FRAMING PLAN & GIRDER ELEV. UNITS 2 & 3	
DRAWN <u>DLB</u> CHECKED <u>RLB</u> IN CHARGE <u>JWB</u> APPROVED <u>JPS</u> DATE 3-21-79	SIGNATURE <u>James A. Rabin</u> TITLE <u>Major A. Rabin</u> UNIT <u>7th AVN BN</u>			
SCALE AS SHOWN			FEBRUARY 1979 DWG NO. 605 75-B-0018	



LEGEND

— — — — — Transverse stiffeners
 — — — — — Stringers

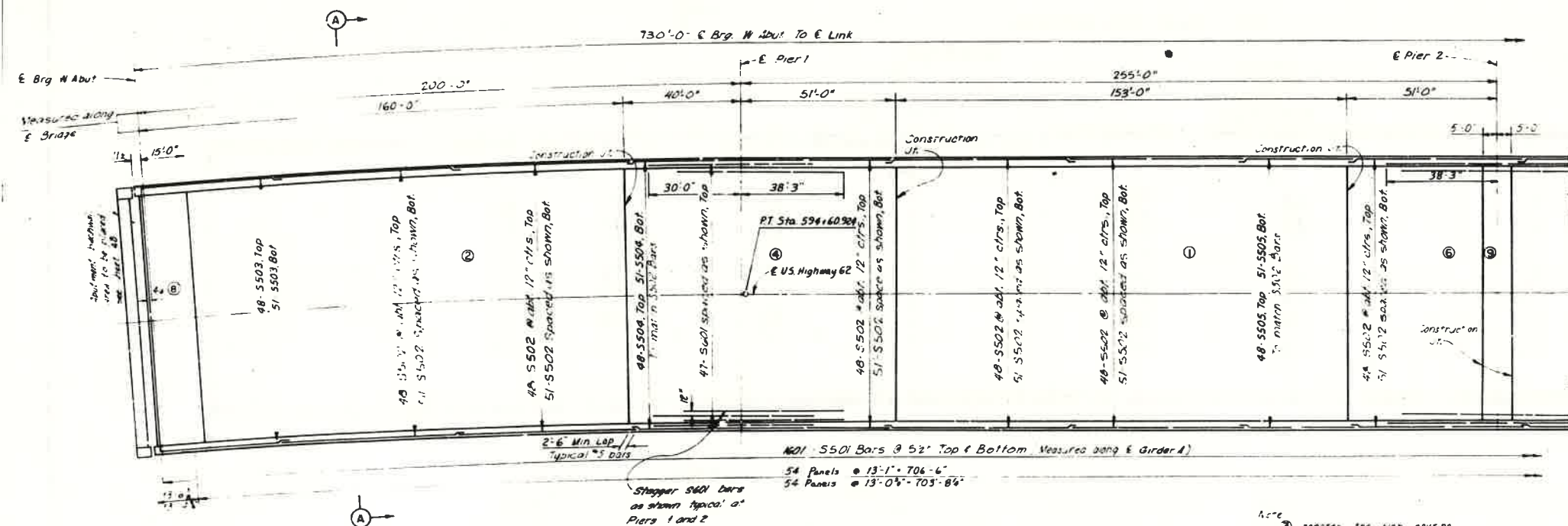
- Notes
1. Intermediate transverse and longitudinal stiffeners are on the inside of girders only, except at floorbeams. Longitudinal stiffeners shall be located as shown on the girder elevations.
 2. (A) Denotes type of floorbeam to be used.
 3. (B) Denotes the number of equal intermediate stiffener spaces between floorbeams or between the ends and floorbeams.
 4. Floorbeams are normal to E Bridge.
 5. For Type B Anchorage details see Sheet 47.
 6. The following described girder flanges are to be considered Plate Girder Members (P.G.M.) in addition to the conditions described in the Specifications. The top flange through the length of the girder where a longitudinal stiffener is adjacent to the bottom flange and the bottom flange through the length of the girder where a longitudinal stiffener is adjacent to the top flange.

520-78 Stiffeners added, notes revised Amended No. 3 AJJ	
HNTB HNTB DISTRICT U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS	
WHITE RIVER AND TRIBUTARIES NORFOLK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUPERSTRUCTURE U.S. HIGHWAY 62 FRAMING PLAN & GIRDER ELEV. UNIT 4	
FEBRUARY 1979	
SCALE AS SHOWN BY: HNTB 79-B-0018	

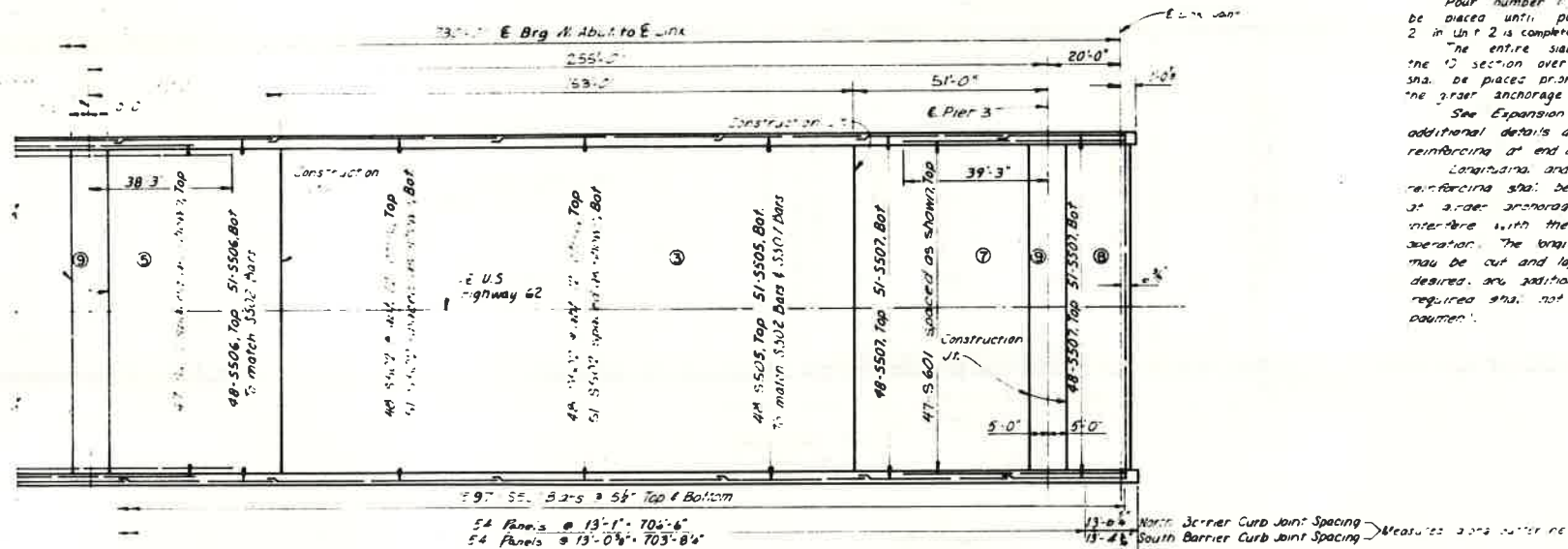
CONTRACT NO. 79-C-0055
 RECORD DRAWING AS CONSTRUCTED
 DATE: 10/1/79
 C. D. [Signature]

PAVEMENT ELEVATION AND DEAD LOAD DEFLECTION UNIT - 4																																											
		LINK	JT	1	2	3	4	5	6	7	8	9	PIER-12	1	2	3	4	5	6	7	8	9	PIER-13	1	2	3	4	5	6	7	8	9	E ABUT										
GIRDER - A	ELEV	614.96	614.32	614.8	614.04	613.90	613.76	613.68	613.61	613.47	613.33	613.29	613.19	613.05	612.90	612.75	612.74	612.59	612.51	612.44	612.25	611.90	611.61	611.56	611.22	611.04	610.87	610.53	610.24	610.05	609.99	609.72	609.60	609.50	609.48	609.36	609.29	609.15	609.2	609.00	608.88		
	ΔT	0.0000	0.1670	0.217	0.3005	0.3889	0.424	0.4167	0.3926	0.3584	0.2634	0.1496	0.1191	0.0562	0.0000	-0.0013	0.0244	0.0406	0.1197	0.1613	0.1928	0.2307	0.2205	0.1754	0.1665	0.0893	0.0462	0.0258	0.0000	0.0157	0.0455	0.0530	0.1093	0.4330	0.1772	0.2014	0.215	0.1992	0.1690	0.1334	0.0841	0.0000	
	AC	0.0000	0.1214	0.1615	0.2253	0.2892	0.3484	0.3992	0.4293	0.4554	0.1954	0.1110	0.088	0.0417	0.0000	-0.0047	0.0220	0.0304	0.0897	0.2014	0.1444	0.1728	0.1652	0.1313	0.1247	0.0669	0.0346	0.0000	0.0118	0.0344	0.0416	0.082	0.254	0.1341	0.2534	0.228	0.508	0.279	0.165	0.137	0.0000		
STRINGER - B	ELEV	614.62	614.48	614.34	614.20	614.06	613.92	613.77	613.63	613.49	613.35	613.21	613.06	612.90	612.75	612.60	612.42	612.15	611.89	611.62	611.35	611.09	610.88	610.67	610.46	610.34	610.22	610.10	609.98	609.86	609.74	609.62	609.50	609.38	609.26	609.14	609.02	608.90	608.78	608.66	608.54	608.42	608.30
STRINGER - C	ELEV	614.78	614.64	614.50	614.36	614.22	614.08	613.93	613.79	613.65	613.51	613.37	613.22	613.06	612.91	612.76	612.60	612.41	612.22	612.02	611.83	611.64	611.49	611.34	611.19	611.07	610.95	610.83	610.71	610.59	610.47	610.35	610.23	610.11	609.99	609.87	609.75	609.63	609.51	609.39	609.27	609.15	609.03
STRINGER - D	ELEV	614.78	614.64	614.50	614.36	614.22	614.08	613.93	613.79	613.65	613.51	613.37	613.23	613.06	612.91	612.76	612.60	612.41	612.22	612.02	611.83	611.64	611.49	611.34	611.19	611.07	610.95	610.83	610.71	610.59	610.47	610.35	610.23	610.11	609.99	609.87	609.75	609.63	609.51	609.39	609.27	609.15	609.03
STRINGER - E	ELEV	614.62	614.48	614.34	614.20	614.06	613.92	613.77	613.63	613.49	613.35	613.21	613.06	612.90	612.75	612.60	612.42	612.15	611.89	611.62	611.35	611.09	610.88	610.67	610.46	610.34	610.22	610.10	609.98	609.86	609.74	609.62	609.50	609.38	609.26	609.14	609.02	608.90	608.78	608.66	608.54	608.42	608.30
GIRDER - F	ELEV	614.96	614.32	614.12	614.8	614.04	613.90	613.76	613.68	613.61	613.47	613.33	613.29	613.19	613.05	612.90	612																										
	ΔT	0.0000	0.1670	0.2685	0.3059	0.3973	0.4285	0.4274	0.3966	0.3695	0.2741	0.1581	0.1266	0.0604	0.0000	-0.0123	0.0118	0.0208	0.0998	0.1374	0.1644	0.1993	0.1872	0.1433	0.1353	0.0659	0.0397	0.0126	0.0000	0.0275	0.0497	0.0799	0.143	0.2000	0.2077	0.2373	0.2427	0.2250	0.1852	0.126	0.0953	0.0000	
	AC	0.0000	0.1259	0.1992	0.2270	0.3243	0.3254	0.3171	0.2942	0.2742	0.2034	0.1173	0.0939	0.0452	0.0000	-0.0092	0.0133	0.0208	0.0748	0.1079	0.1246	0.1493	0.1402	0.1073	0.1013	0.0494	0.297	0.0094	0.0000	0.0208	0.0376	0.0605	0.1083	0.514	0.572	0.1796	0.847	0.703	0.1402	0.307	0.0721	0.0000	

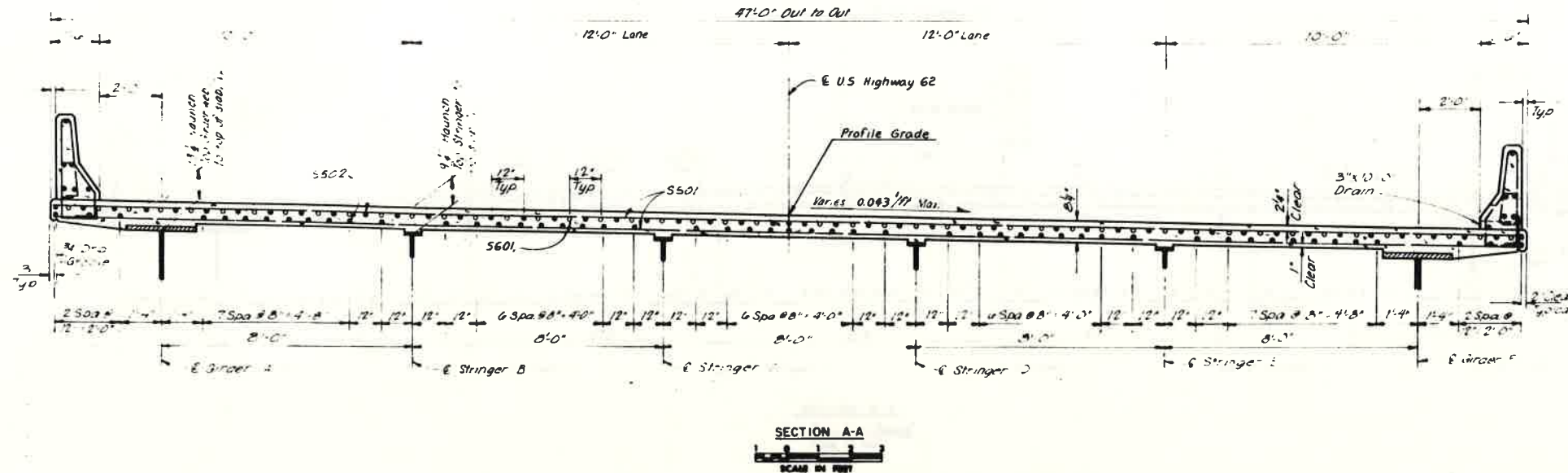
PROJECT	DATA		DESCRIPTION		BY
HNTB <small>INDEPENDENT FIDELITY TRUSTEES & REPRESENTATIVES</small>			U.S. ARMY ENGINEER DISTRICT <small>LITTLE ROCK ARKANSAS</small>		
<small>PROJECT</small> <small>DATE</small> <i>CB</i>			<small>WHITE RIVER AND TRIBUTARIES</small>		
<small>PROJECT</small> <small>DATE</small> <i>1954</i>			<small>NORTH FORK RIVER ARKANSAS</small>		
<small>PROJECT</small> <small>DATE</small> <i>J.P.S.</i>			NORFOLK LAKE HIGHWAY BRIDGES <small>BAXTER COUNTY ARKANSAS</small>		
			SUPERSTRUCTURE U.S. HIGHWAY 62		
			PAVEMENT ELEV. AND GIRDER DEFL.		



Here ③ denotes the slab pouring sequence for the bridge. Pour number 1 shall not be placed until pour number 2 in Unit 2 is completed. The entire slab except for the 12' section over the piers shall be placed prior to prestressing the girder anchorage. See Expansion Joint Sheets A- additional details and additional reinforcing at end of units. 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 in the drawings.



PLAN No Scale

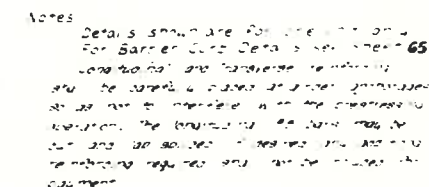
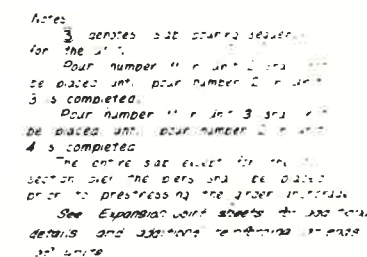
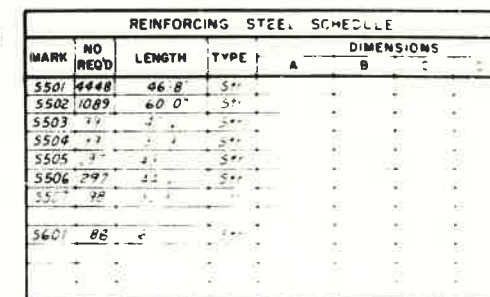


SECTION A-A

REINFORCING STEEL SCHEDULE				
MARK	NO REQD	LENGTH	TYPE	DIMENSIONS
5501	202	46.8	5"	
5502	792	60.0	5"	
5503	99	29.4	5"	
5504	39	14	5"	
5505	198	43	5"	
5506	99	42	5"	
5507	198	42	5"	
5601	141	61	5"	

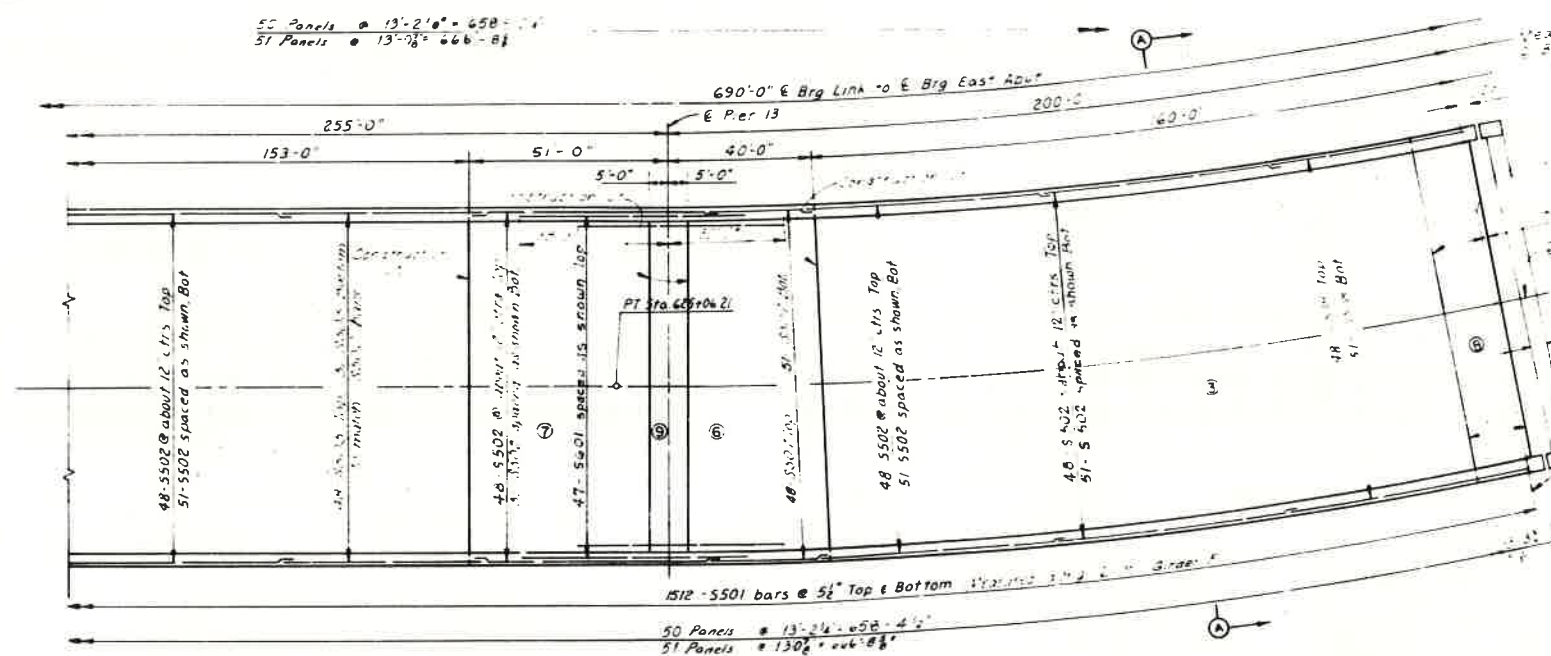
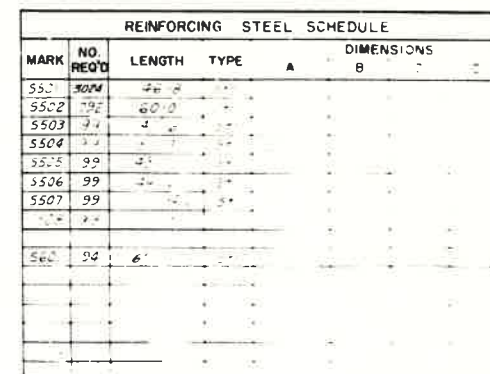
Contract No. F9-C-0089
RECORD DRAWING AS CONSTRUCTED
DATE 12-NOV-82
C. H. [Signature]

HNTB HANCOCK ENGINEERING & ARCHITECTS 1111 N. RIVER ST. SUITE 100 DALLAS, TEXAS 75201		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS	
NORTH FORK RIVER AND TRIBUTARIES NORFOLK LAKE HIGHWAY BRIDGES SARTER COUNTY, ARKANSAS SUPERSTRUCTURE U.S. HIGHWAY 62 SLAB PLAN UNIT 1		FEBRUARY 1979	
SCALE AS SHOWN DRAW NO. 79-B-C-019		SCALE AS SHOWN DRAW NO. 79-B-C-019	

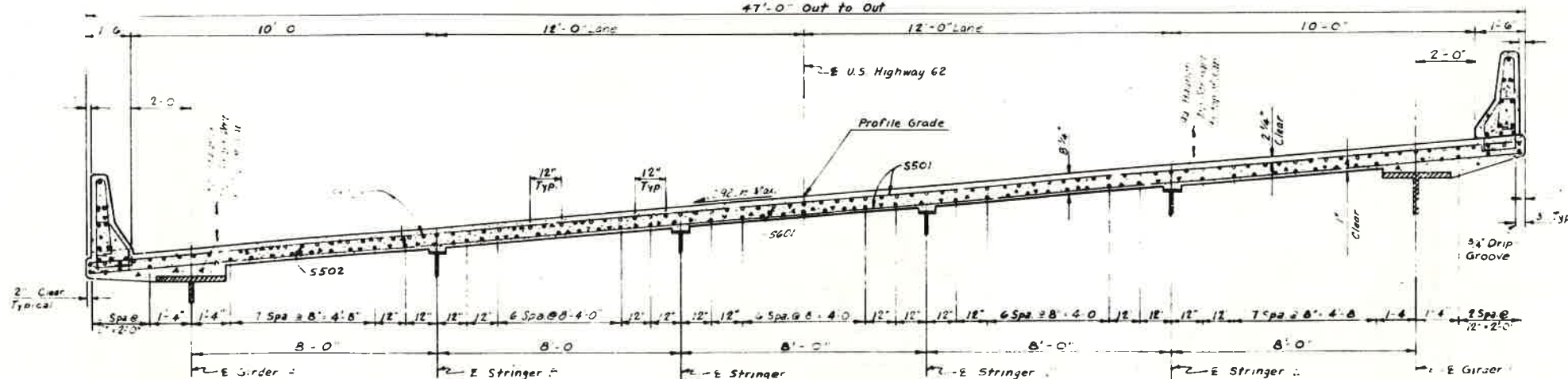


Contract No 791-OC92
RECORD DRAWING AS CONSTRUCTED
DATE 19 NOV 92

[illegible]



PLAN
N.E. Scale



SECTION A-A

SCALE IN FEET

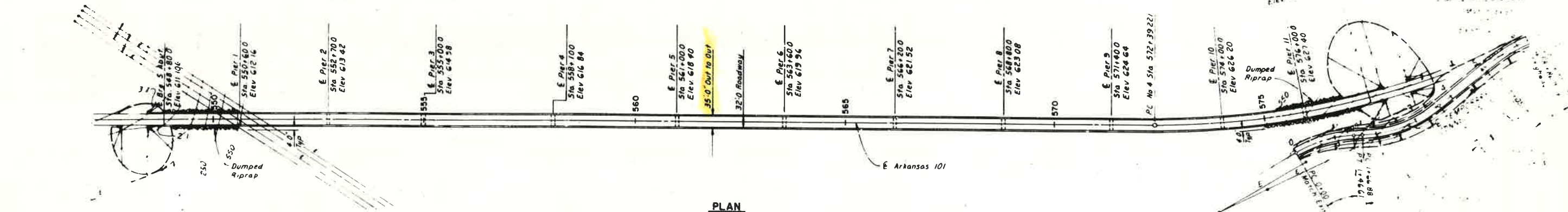
Contract No 79-C-C055
RECORD DRAWING AS CONSTRUCTED
DATE 18-NOV-82

[illegible]

3 phase 72 KV Power Distribution Lines cross E Bridge at Sta 550+60, Elev 651.1 @ 84° F. These lines are scheduled to be removed, but a definite time has not been established. See Contract Specifications.

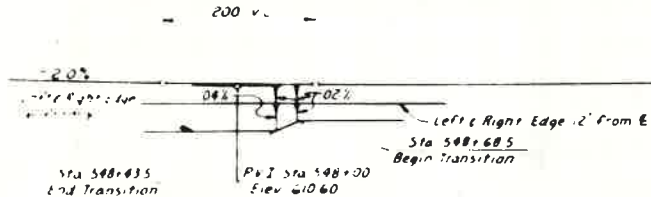
CURVE NO. 4
 $\Delta = 23^\circ 29' 58''$
 $D = 3^\circ 00'$
 $R = 1909.859'$
 $T = 997.242'$
 $E = 40.875'$
 $L = 783.315'$

E. B. N. Abut.
 Sta 577+60.0
 Elev 628.36

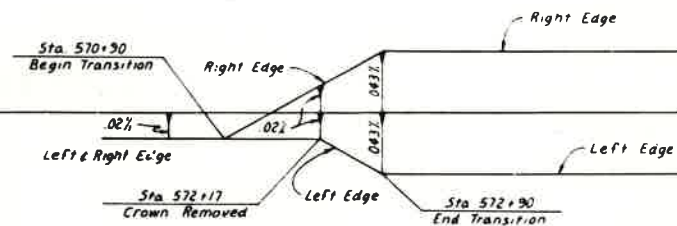


PLAN

Power Pole to be relocated if required by Arkansas State Highway and Transportation Department at no cost to the Contractor. See Specifications.



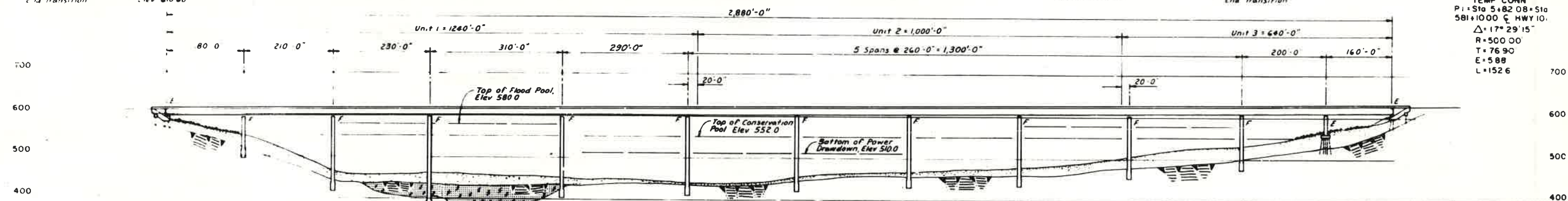
PROFILE GRADE



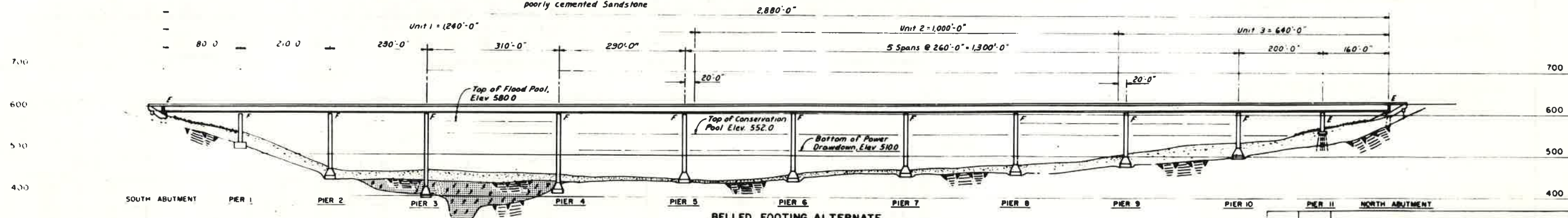
CURVE NO. 1
 TEMP CONN
 P1 = Sta 0+74.80
 $\Delta = 28^\circ 00'$
 $R = 300.00'$
 $T = 74.80'$
 $E = 9.18'$
 $L = 146.61'$

CURVE NO. 2
 TEMP CONN
 P1 = Sta 2+70.27
 $\Delta = 38^\circ 01' 47''$
 $R = 300.00'$
 $T = 103.39'$
 $E = 7.31'$
 $L = 199.12'$

CURVE NO. 3
 TEMP CONN
 P1 = Sta 5+82.08 + Sta 581+1000 @ HWY 10
 $\Delta = 17^\circ 29' 15''$
 $R = 500.00'$
 $T = 76.90'$
 $E = 5.88'$
 $L = 152.6'$



DRILLED SHAFT ALTERNATE



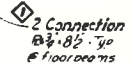
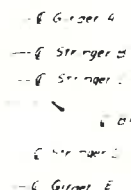
BELLED FOOTING ALTERNATE

SCALE IN FEET

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. 70-C-0055

HNTB		U.S. ARMY ENGINEER DISTRICT	
NORFOLK LAKE HIGHWAY BRIDGES		NORTH FORK RIVER, ARKANSAS	
SUPERSTRUCTURE		BAKTER COUNTY, ARKANSAS	
GENERAL PLAN AND ELEVATION			



Notes

① Intermediate transverse and longitudinal stiffeners are on the inside of girder only, except at floor beams.

Longitudinal stiffeners shall be located as shown on the Girder Elevation

① Denotes type of floorbeam to be used

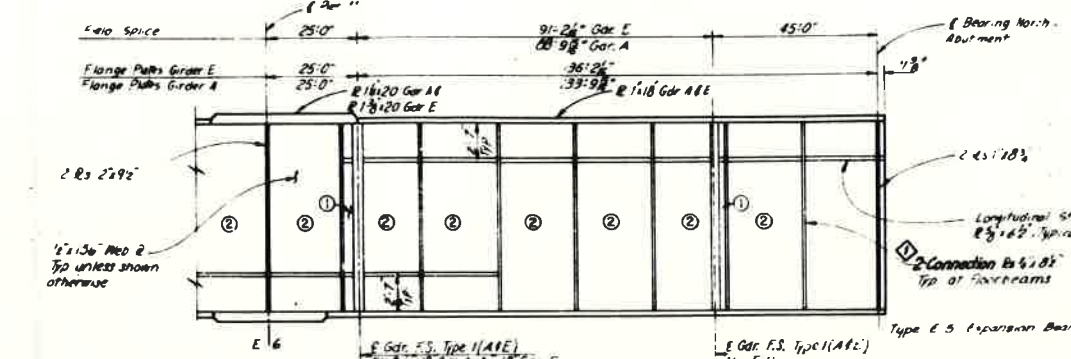
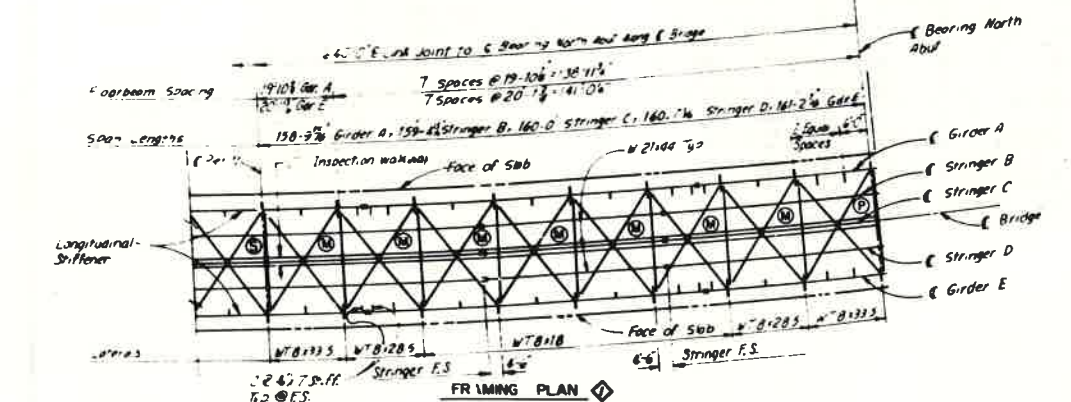
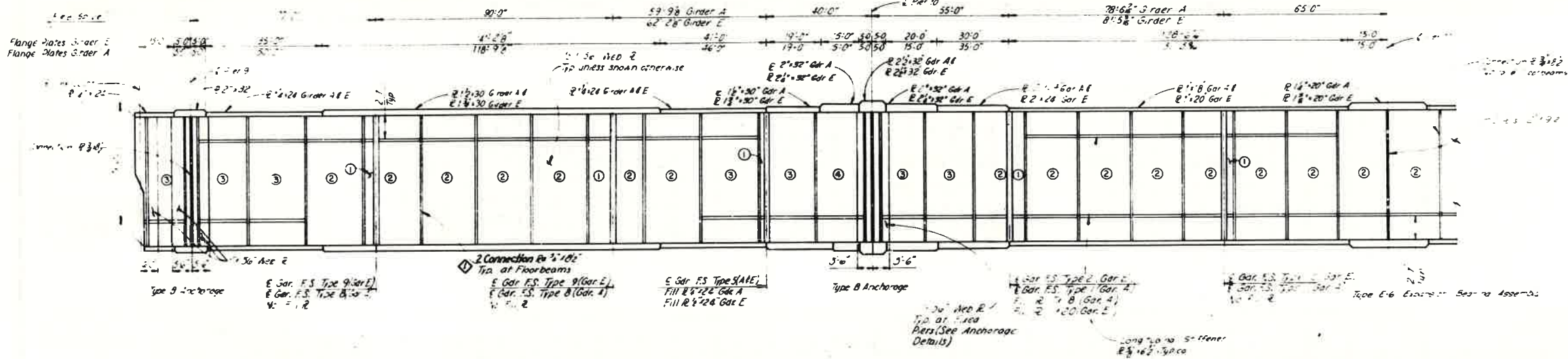
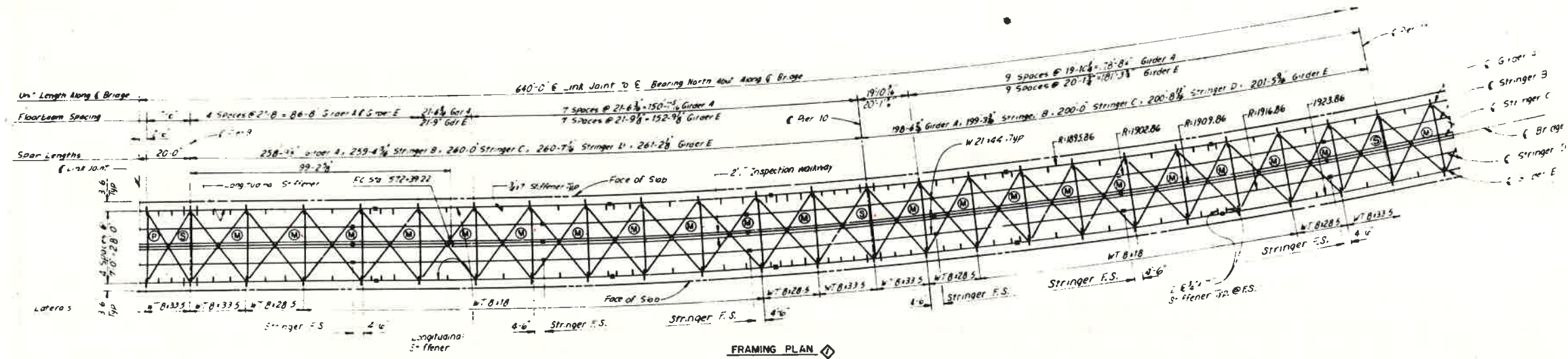
② Denotes the number of equal intermediate stiffener spaces between floorbeams or between field splices and floorbeams

All floorbeams are normal to E Bridge

For Type A & Type B Anchorage details see Sheet 1

The following deck bed girder floorbeams are to be considered as Class A Members. Members shall add 10% to the weights described in the Specifications for the top flange through the length of the girder where a longitudinal stiffener is adjacent to the bottom flange and the bottom flange through the length of the girder where a longitudinal stiffener is adjacent to the top flange

DATE	3-20-79	STIFFENERS ADDED, NOTES REVISED.	AMEND. NO. 3	J-1
DESIGN				
HNTB HOKUKEE CONSULTING ENGINEERS & ARCHITECTS		U.S. ARMY ENGINEER DISTRICT LITTLE ROCK, ARKANSAS		
1. <u>CL</u> 2. <u>5'-4</u> 3. <u>60</u> 4. <u>J-1</u>	WHITE RIVER AND TRIBUTARIES NORTH FORK RIVER, ARKANSAS NORFOLK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUPERSTRUCTURE ARKANSAS HIGHWAY 101 FRAMING PLAN & GIRDER ELEV. UNIT 2			



24



LEGEND

— Transverse Stiffeners

— Stringer or Girder Field Splice

Notes

Intermediate transverse and longitudinal stiffeners are on the inside of girder only, except at floor beams. Longitudinal stiffeners shall be located as shown on the Girder Elevations.

① Denotes type of Floorbeam to be used

② Denotes the number of equal intermediate stiffener spaces between floorbeams or between field splices and floorbeams.

All floorbeams are normal to E Bridge

For Type A & Type B Anchorage details see Sheet 47

The following described girder flanges are to be considered Fracture Critical Members (FCM) in addition to the portions described in the Specifications: the top flange thruout the length of the girder where a longitudinal stiffener is adjacent to the bottom flange and the bottom flange thruout the length of the girder where a longitudinal stiffener is adjacent to the top flange

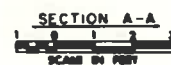
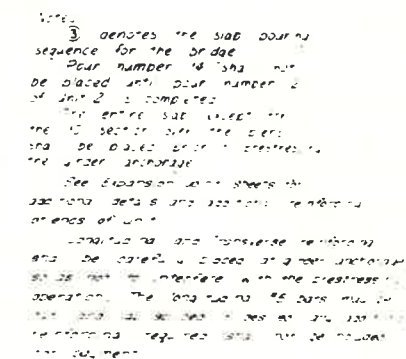
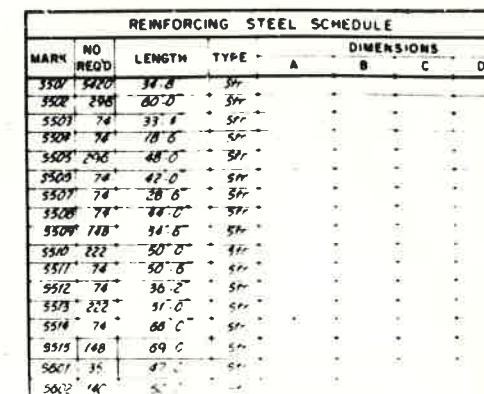
Contract No. TS-C-0088
RECORD DRAWING AS CONSTRUCTED
DATE 12-NOV-82

3-20-79 Stiffeners added, notes revised. Amend No. 3	
HNTB	
U.S. ARMY ENGINEER DISTRICT	
WHITE RIVER AND TRIBUTARIES NORTH FORK RIVER, ARKANSAS	
NORFOLK LAKE HIGHWAY BRIDGES	
SAXTON COUNTY, ARKANSAS	
SUPERSTRUCTURE	
ARKANSAS HIGHWAY 101	
FRAMING PLAN & GIRDER ELEV. UNIT 3	
FEBRUARY 1979	


[illegible]

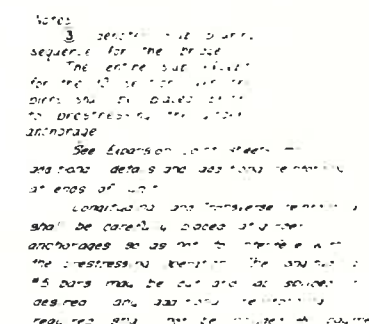
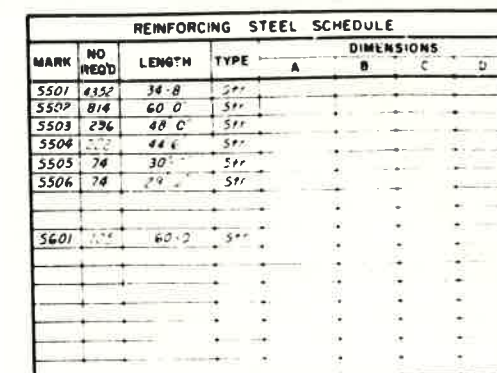
LEGEND:
 ΔT = Total deflection measured in feet.
 ΔC = Deflection for concrete only measured in feet.
 S = Centerline Splice

[illegible]

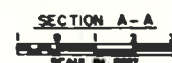


CORRECT No 70-C 0055
 RECORD DRAWING AS CONSTRUCTED
 DATE 19-NOV-82

		U.S. ARMY ENGINEER DISTRICT WYTHE ROCK ARKANSAS	
DIVISION OF HIGHWAYS AND TRANSPORTATION		NORTH FORK RIVER ARKANSAS	
WHITE RIVER AND TRIBUTARIES		NORFOLK LAKE HIGHWAY BRIDGES	
BAYLOR COUNTY ARKANSAS		SUPERSTRUCTURE	
ARKANSAS HIGHWAY 101		SLAB PLAN UNIT I	
DATE: FEB 1970		F. C. G. 1970	

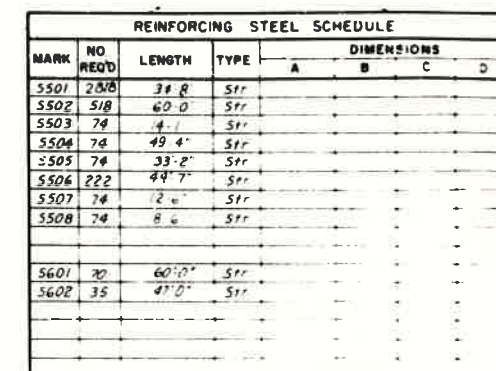


Garr e- Jur.
Soc. Sig. N.



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

[illegible]



Notes

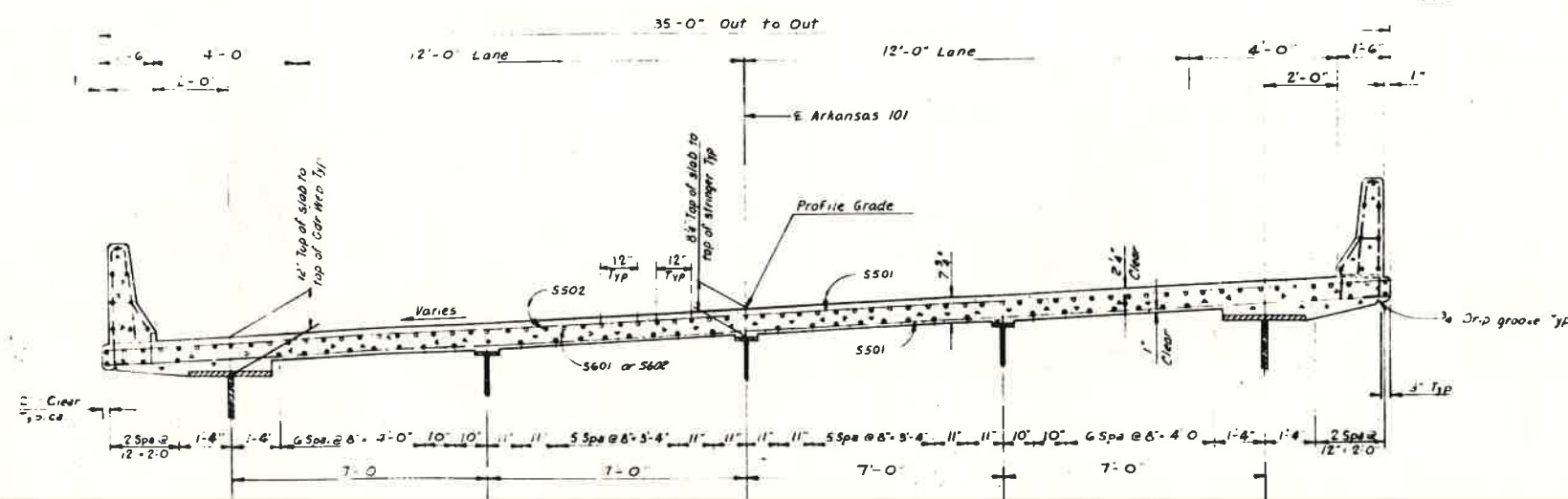
③ denotes was during sequence for the bridge.

The entire slab except for the 10' section over the piers and the 2' section prior to prestressing of the first anchorage.

Four number 4 of dr #3 shall not be placed until four number 4 of dr #2 is completed.

See discussion with others for additional details and location reinforcing at ends of dr #1.

Longitudinal and transverse reinforcing shall be installed in place of girder anchorages to tie into to tie into with the prestressing reinforcement. The longitudinal #5 bars may be cut out as spaces if desired, any additional reinforcing requires shall not be included for payment.



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

DATE	DATE			DATE	
HNTB HANCOCK ENGINEERING, ARCHITECTS & INTERIORS, INC.			U.S. ARMY ENGINEER DISTRICT LITTLE ROCK ARKANSAS		
DRAWING NO. <u>D-4</u> SHEET NO. <u>MAJ</u> PROJECT NO. <u>GD</u> REVISIONS DATE BY	WHITE RIVER AND TRIBUTARIES NORTH FORK RIVER ARKANSAS NORFORK LAKE HIGHWAY BRIDGES BAXTER COUNTY, ARKANSAS SUPERSTRUCTURE ARKANSAS HIGHWAY 101 SLAB PLAN UNIT 3				
SCALE: 1" = 40'			SHEET NO. 1 OF 1		