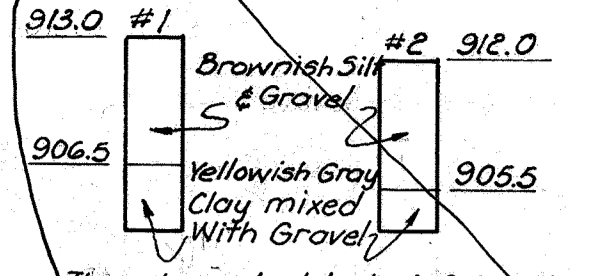


**BROWN COUNTY  
S.H. 494. SEC. "D"**

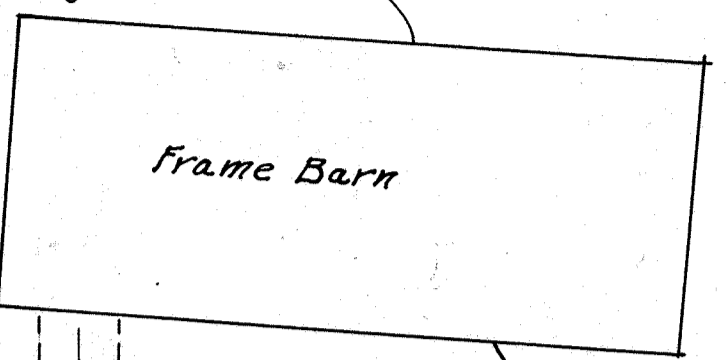
FED. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO	STATE	1945

16  
21

**TEST HOLE DATA**



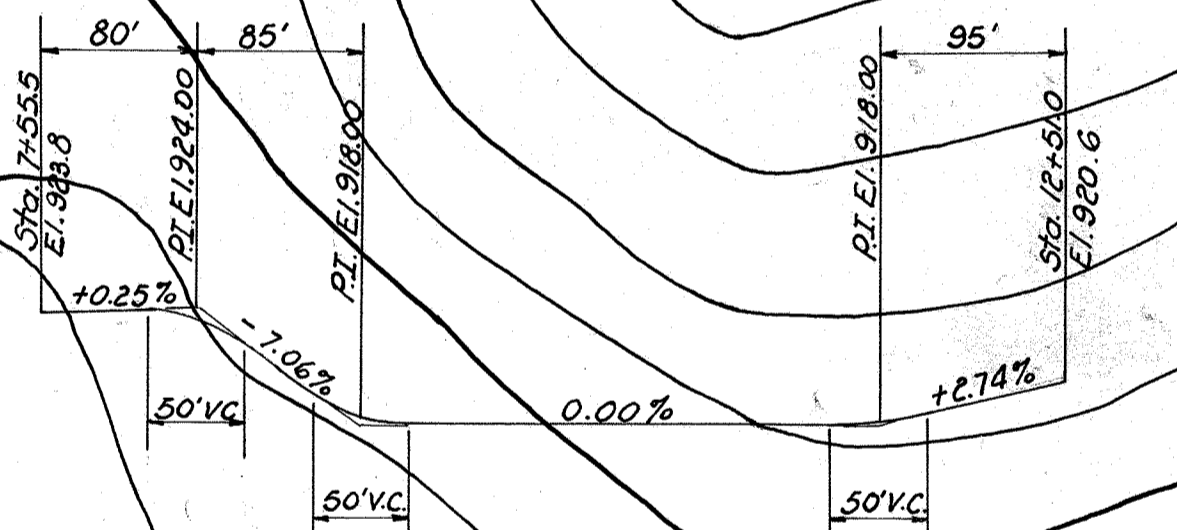
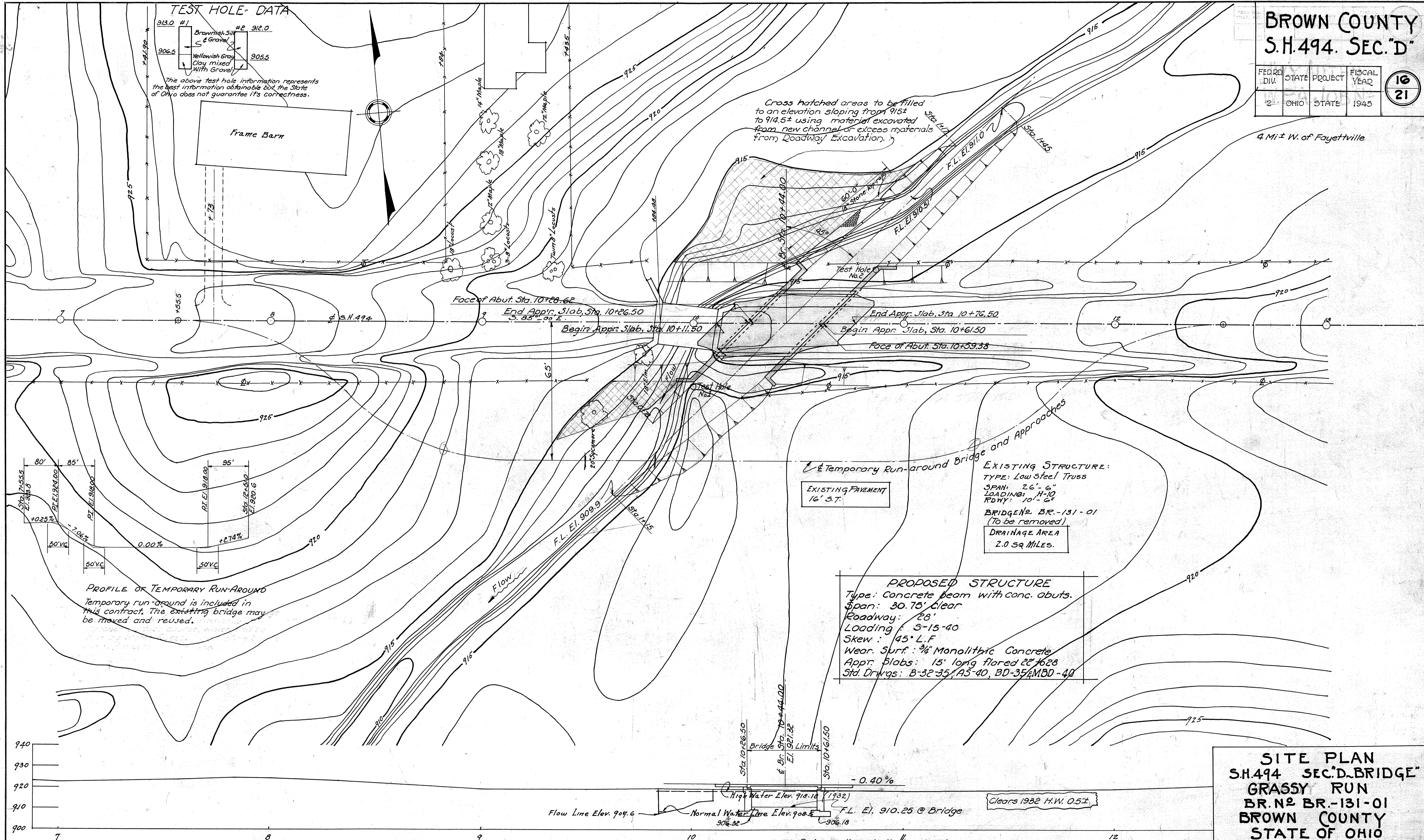
The above test hole information represents the best information obtainable but the State of Ohio does not guarantee its correctness.



Cross hatched areas to be filled to an elevation sloping from 915± to 914.5± using material excavated from new channel or excess materials from Roadway Excavation.

4 Mi ± W. of Fayetteville

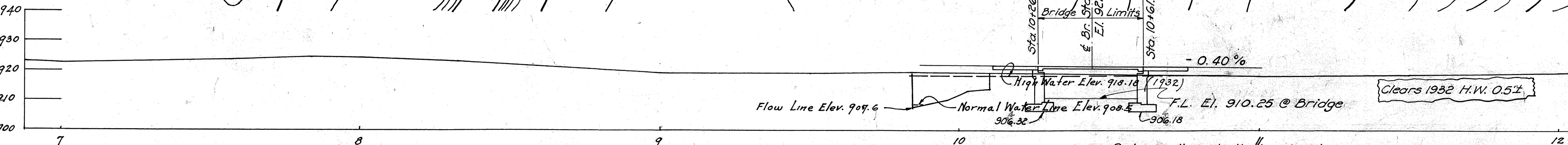
End of Appr. Earthwork { 10+24.78  
 { 10+63.22  
 Appr. Pkt. 22' wide  
 Est. Cost, Structure + Channel + Piping = \$ 22,000.



**PROFILE OF TEMPORARY RUN-AROUND**  
 Temporary run-around is included in this contract. The existing bridge may be moved and reused.

**EXISTING STRUCTURE:**  
 TYPE: Low Steel Truss  
 SPAN: 26'-6"  
 LOADING: H-10  
 ROWY: 10'-6"  
 BRIDGE NO. BR.-131-01  
 (To be removed)  
 DRAINAGE AREA  
 2.0 SQ MILES.

**PROPOSED STRUCTURE**  
 Type: Concrete beam with conc. abuts.  
 Span: 30.75' Clear  
 Roadway: 28'  
 Loading: S-15-40  
 Skew: 45° L.F.  
 Wear. Surf.: 3/4" Monolithic Concrete  
 Appr. Slabs: 15' long flored 22'x28'  
 Std. Drawgs: B-32-35, A5-40, BD-35, MBD-40



**PROFILE OF ROADWAY**

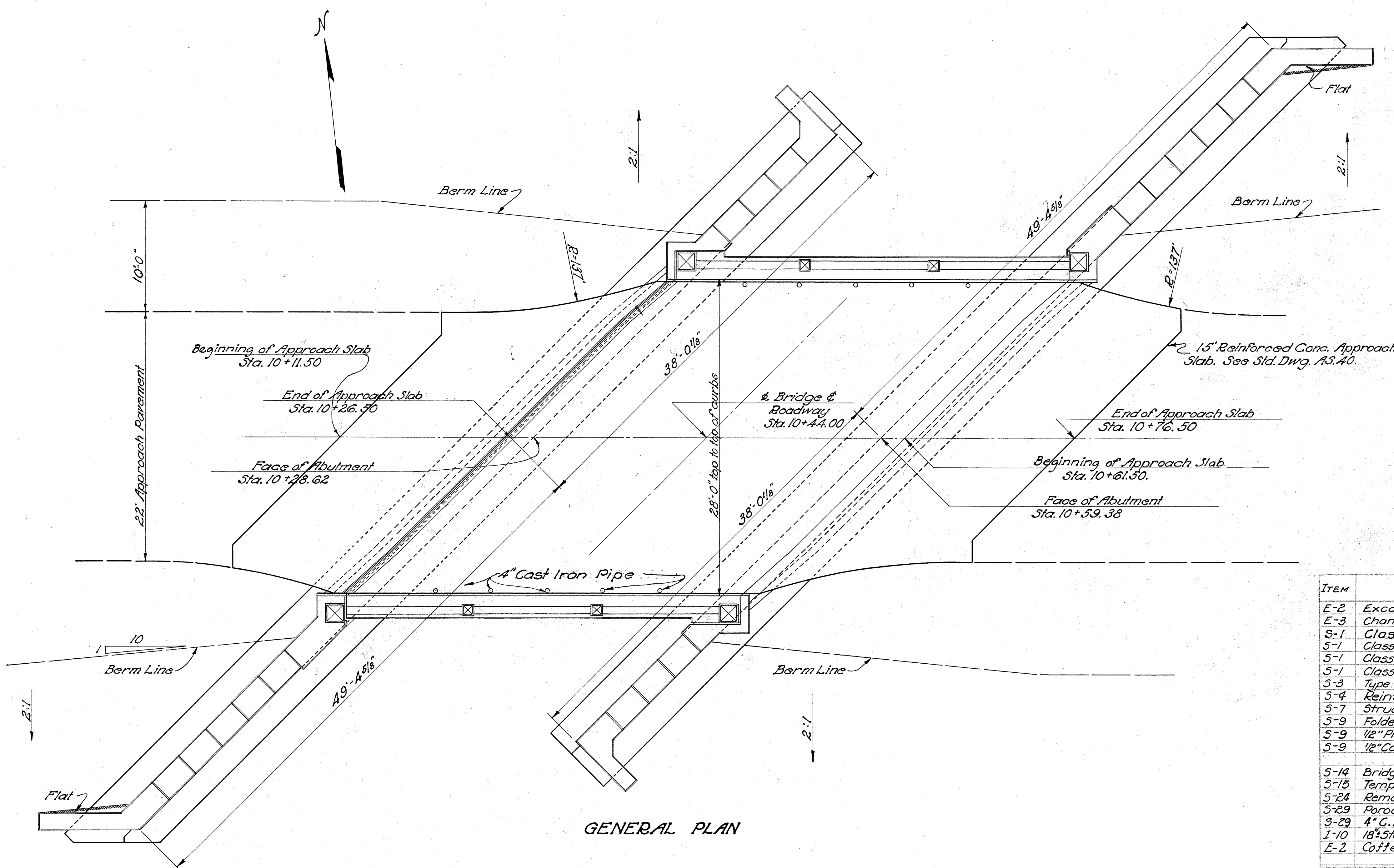
Rod soundings indicate a hard mixture of sand, gravel, and silt or clay suitable for spread footings with out piling.

**SITE PLAN  
 S.H. 494 SEC. "D" BRIDGE  
 GRASSY RUN  
 BR. NO. BR.-131-01  
 BROWN COUNTY  
 STATE OF OHIO**

SCALE: 1" = 20'-0" STA. 10+44.00

PRES. TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DES.	DRN.	CKD.	REV.
		EN	CHA	WME	11/14/45

Revised As-Built BFG 10/22/47 6/11/47 Rev. 10-6-45 4/26/47



**GENERAL NOTES**

FOR DETAILS NOT SHOWN on these drawings reference shall be made to Std. Dwgs. B-32-35, revised 8-12-39; A5-40, revised 7-30-40; MBD-40 approved 10-24-40 and BD-35, revised 8-12-39.

EXISTING SUPERSTRUCTURE to be removed and delivered to the State Highway Garage at Hillsboro, Ohio when no longer needed to maintain traffic.

EXISTING SUBSTRUCTURE to be removed to 1' below finished ground and suitable materials used as bank protection and rip-rap.

ALL WELDING shall be class "A"

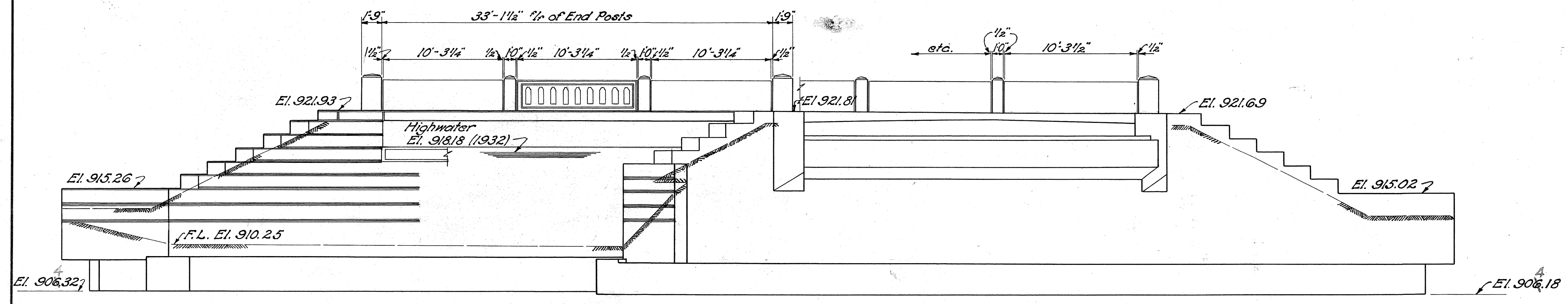
ALL CONCRETE in abutments shall be class E.

FALSEWORK. Not less than 15 days before beginning construction of falsework, Contractor shall submit 3 sets of prints of falsework plan, to the Director for approval by the Bureau of Bridges.

**ESTIMATED QUANTITIES**

ITEM	DESCRIPTION	EAST ABUT.	WEST ABUT.	SUPER. STRUCT.	GENERAL	TOTAL	UNIT	CHANGE ORDER	AMOUNT
E-2	Excavation for structures, unclassified	159	155			314	Cu. Yds.	C-1 +25.8	462
E-3	Channel excavation				100.4	100.4	Cu. Yds.		
S-1	Class "E" concrete, rip-rap footings				10	10	Cu. Yds.		
S-1	Class "C" concrete, superstructure			55		55	Cu. Yds.		
S-1	Class "E" concrete, walls	86	86			172	Cu. Yds.	C-1 +28.2	201.2
S-1	Class "E" concrete, roofings	60	60			120	Cu. Yds.	C-1 +18.7	138.7
S-3	Type "B" Waterproofing (36" wide)	22	22			44	Sq. Yds.	C-1 +2.07	46.67
S-4	Reinforcing Steel	5380	5380	16,580	180	27,520	Lbs.	C-1 +960	28,480
S-7	Structural Steel			2,060		2,060	Lbs.		
S-9	Folded Copper Strip	20	20			40	Lin. Ft.	C-1 +8.0	48
S-9	1/2" Premolded Expansion Jt. Filler	16	12			28	Sq. Ft.		
S-9	1/2" Cast leaded bronze sliding plates			166		166	Lbs.		
S-14	Bridge railing (concrete)			72.24		72.24	Lin. Ft.		
S-15	Temporary Run-around bridge & Appr.				Lump	Lump	Lump Sum		
S-24	Removal of existing structure				Lump	Lump	Lump Sum		
S-29	Porous backfill	75	75			150	Cu. Yds.		
S-29	4" C.I. Pipe Scuppers			10		10	Each		
I-10	18" Stone Rip-rap (Grouted) Type "A"				43	43	Sq. Yds.		
E-2	Cofferdams and Pumping				Lump	Lump	Lump Sum		

GENERAL PLAN



GENERAL ELEVATION

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
BUREAU OF BRIDGES

**GENERAL PLAN & ELEVATION,  
NOTES & ESTIMATED QUANTITIES**

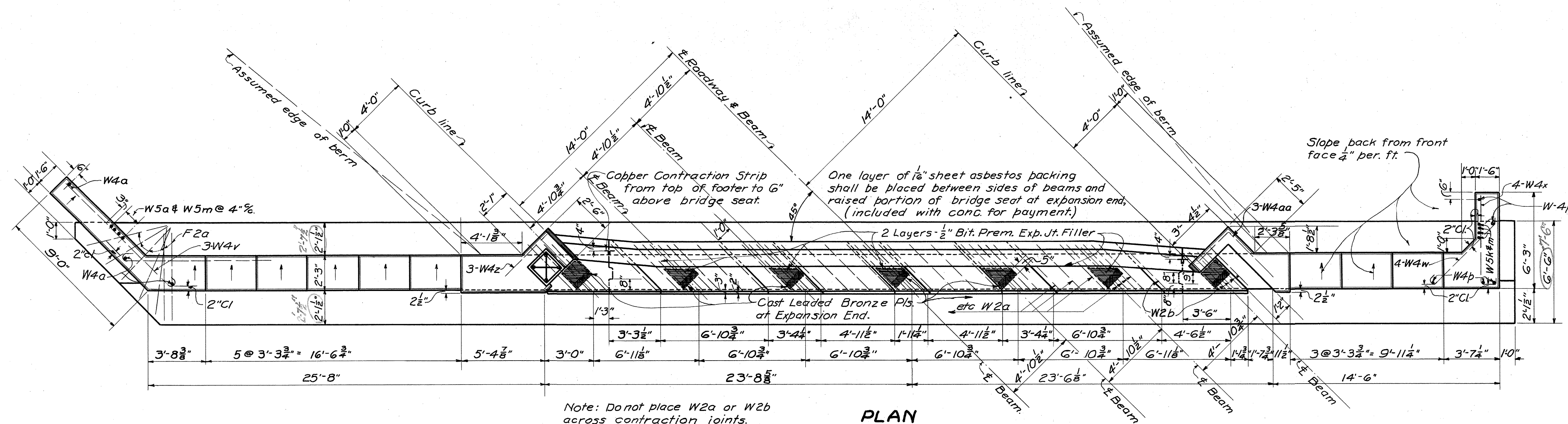
BRIDGE NO BR-131-01  
OVER GRASSY RUN

BROWN COUNTY S.H. 494  
SEC. D STA. 10+44.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.E.B.	F.E.B.	A.L.B.	J.H.B.	B.W.O.	M.H.R. 4/21/41	10-6-45

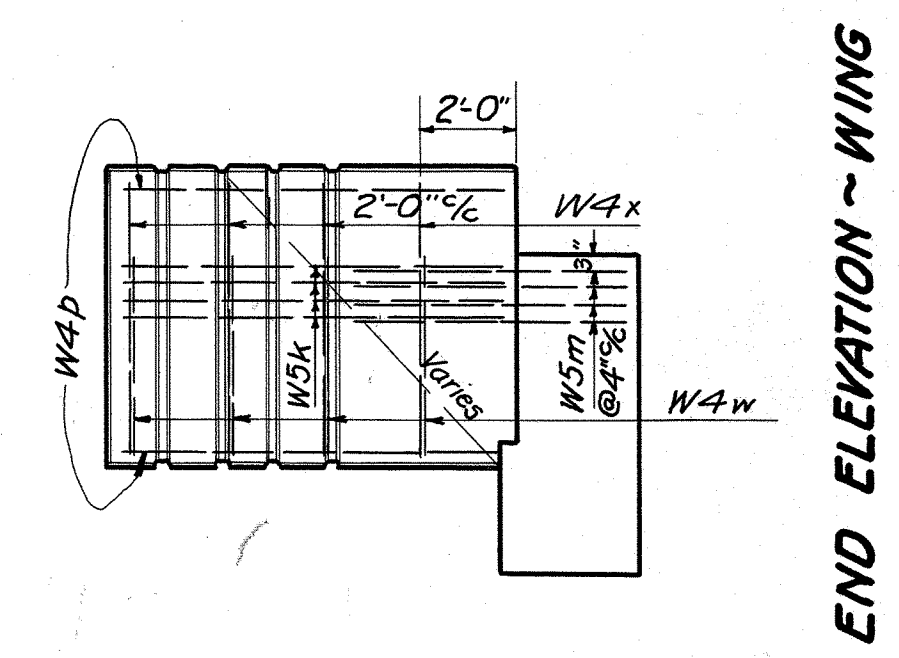
Revised As-Built  
10/22/41

**BROWN COUNTY**  
S. H. 494 SEC. D

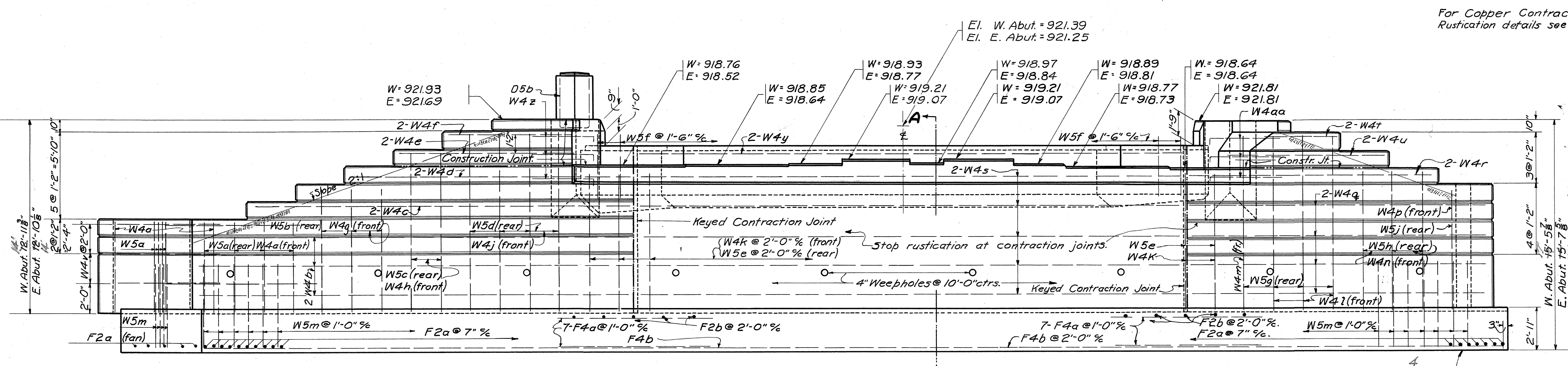


Note: Do not place W2a or W2b across contraction joints.

**PLAN**



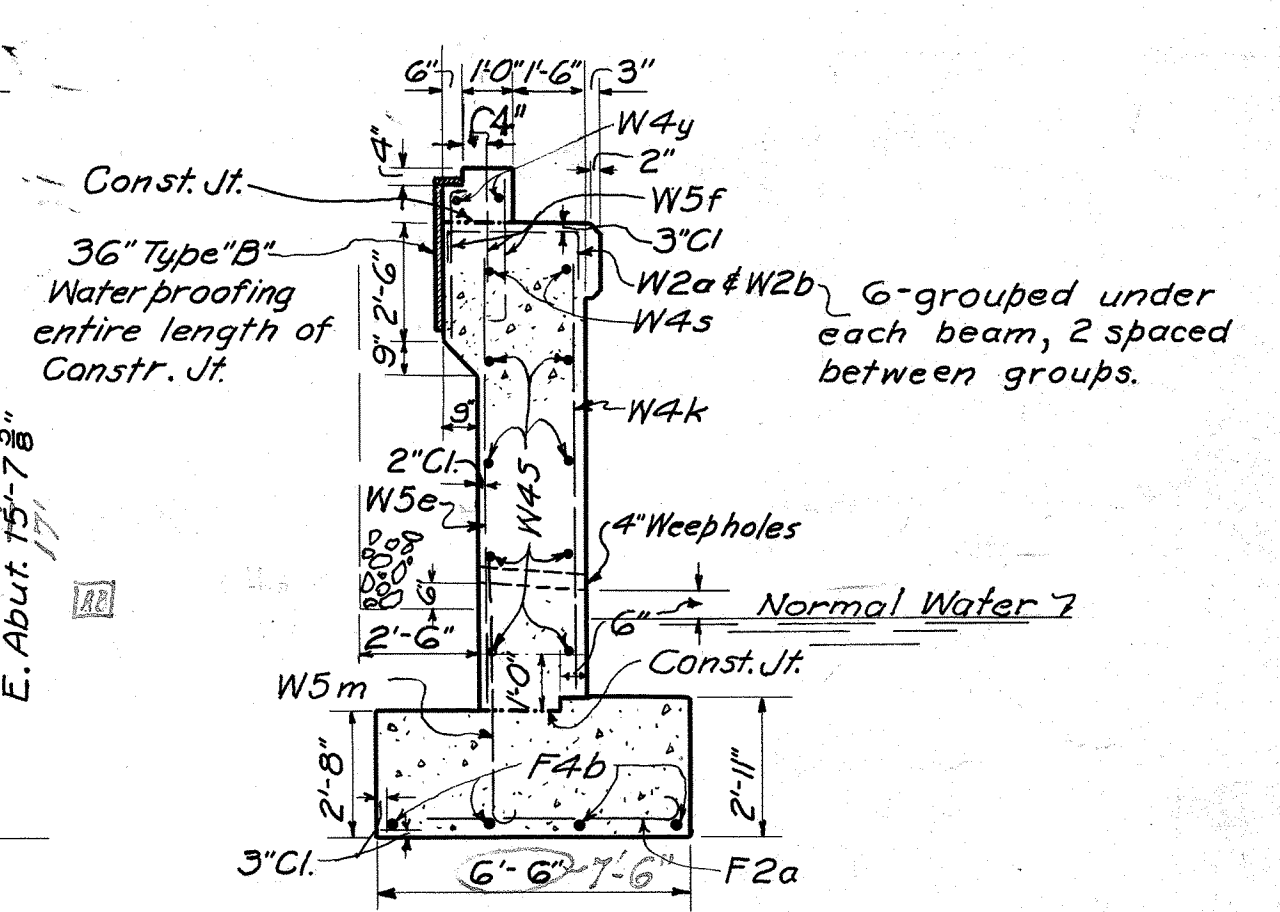
**END ELEVATION - WING**



**ELEVATION**

Concrete above bridge-seat construction-joint shall not be placed until after concrete deck is placed.

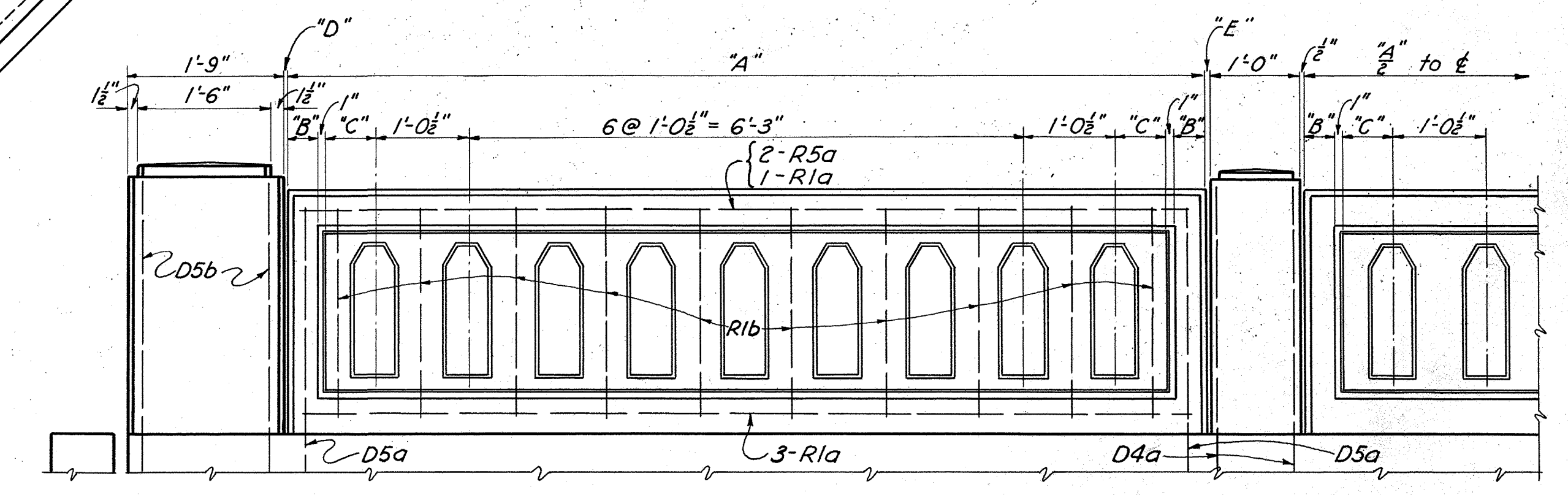
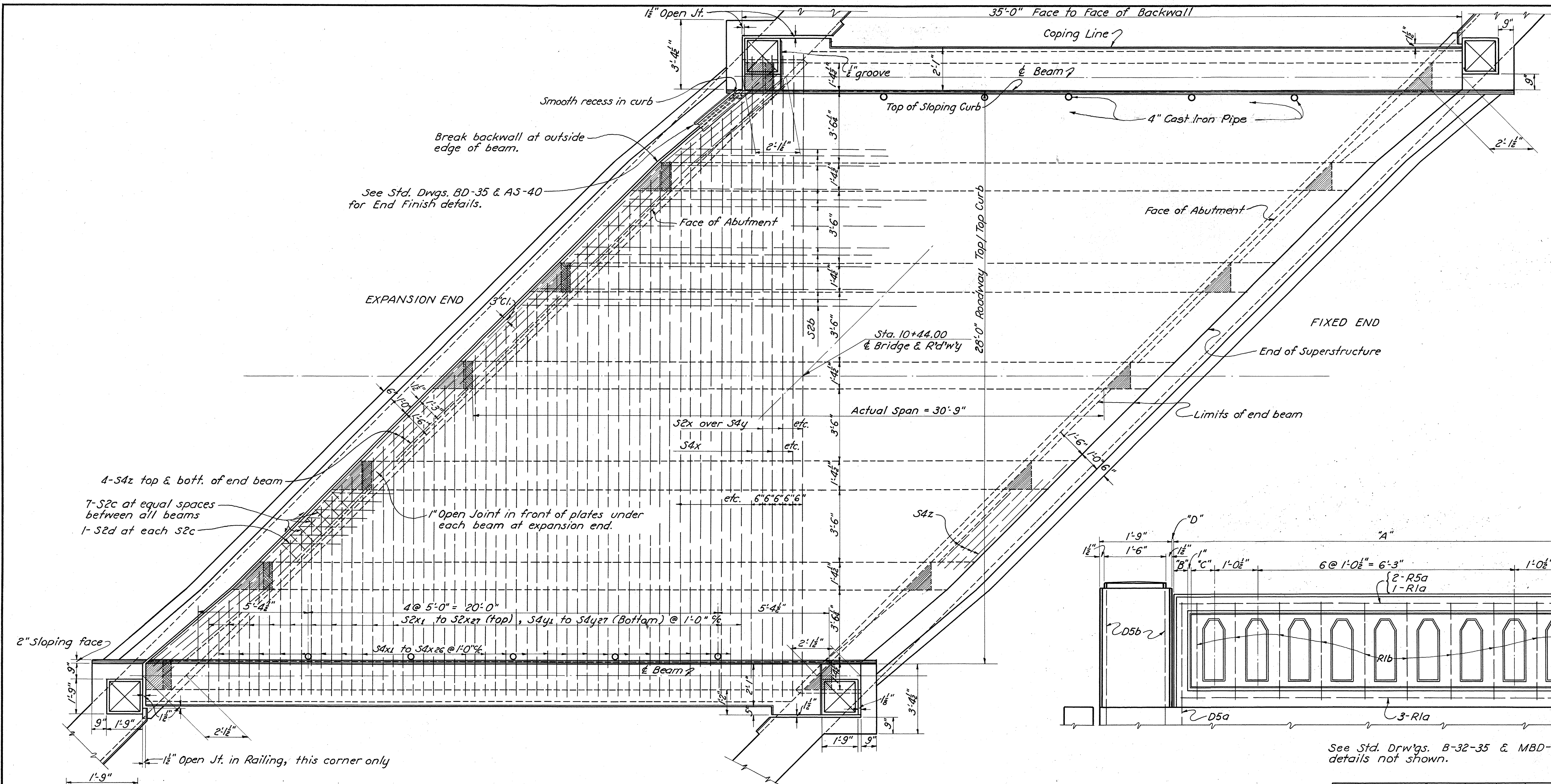
For Copper Contraction Jt. Strip and Rustication details see Std. Drwg. MBD-40.



**SECTION "A-A"**

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
<b>ABUTMENT DETAILS</b>					
BRIDGE N° BR-131-01 OVER GRASSY RUN					
BROWN CO. SEC. D			S.H. 494 STA. 10+44.00		
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
J.E.B.	J.E.B.	J.R.V.	J.H.B.	B.H.O.	11-11-45
Revised As-Built 11/27/47					REVISED 10-6-45

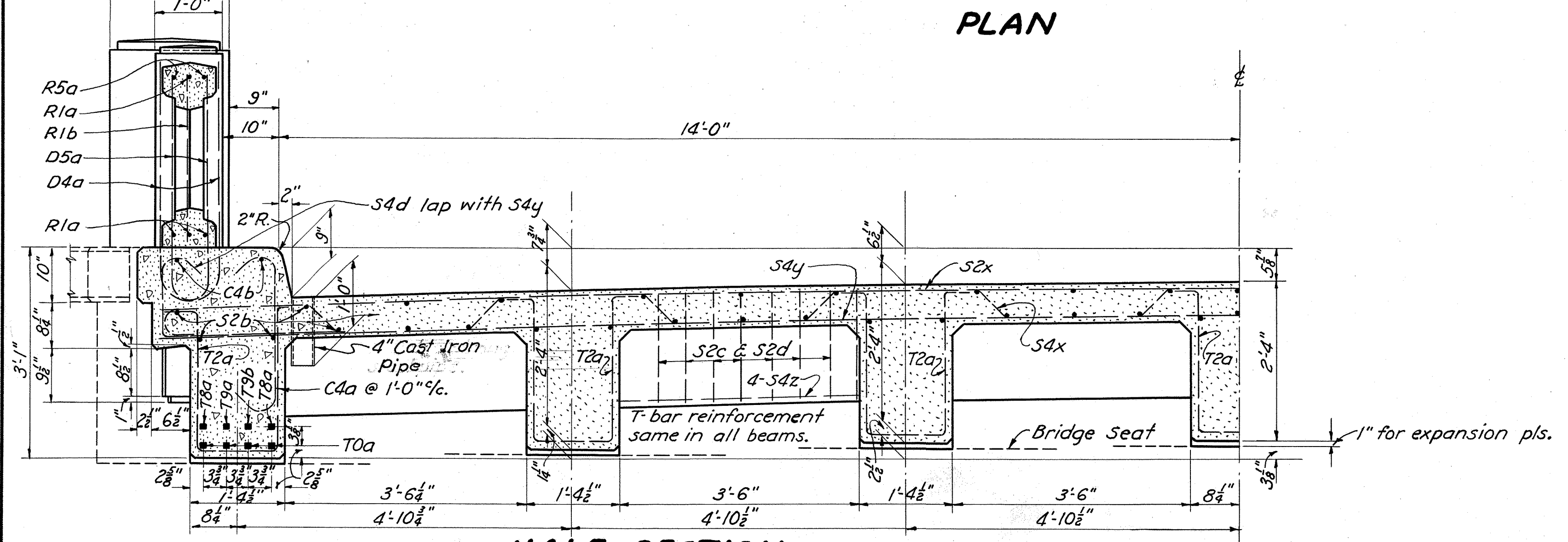
**BROWN COUNTY**  
**S. H. 494 SEC. D**



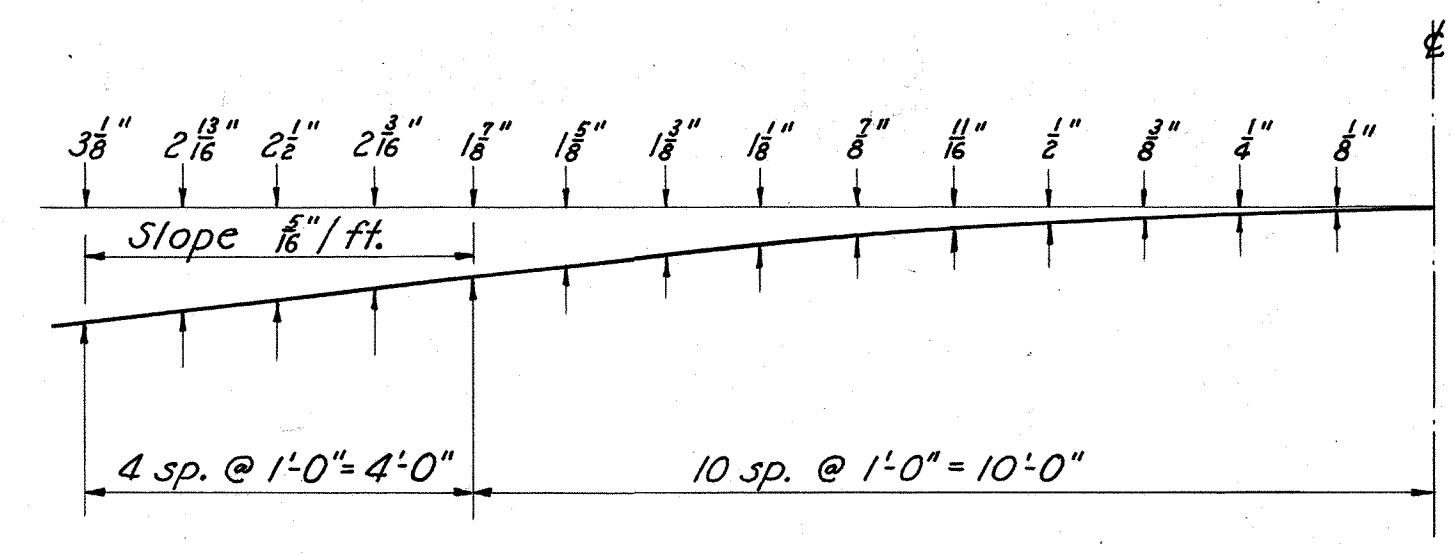
See Std. Drawgs. B-32-35 & MBD-40 for details not shown.

RAILING	"A"	"B"	"C"	"D"	"E"
NORTH	10'-3 1/2"	4"	6 1/2"	1/2"	1/2"
SOUTH	10'-3 1/4"	4"	6 1/8"	1/2" @ S.E. 1/2" @ S.W.	1/2"

**RAILING DETAILS "TYPE RR-12"**



**HALF SECTION** (SEE STD. DRWG B-32-35 FOR DETAILS NOT SHOWN)



**ROADWAY CROWN**

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
BUREAU OF BRIDGES

**SUPERSTRUCTURE DETAILS**

BRIDGE NO. BR-131-01  
OVER GRASSY RUN

BROWN COUNTY STA. 10+44.00  
SEC. D

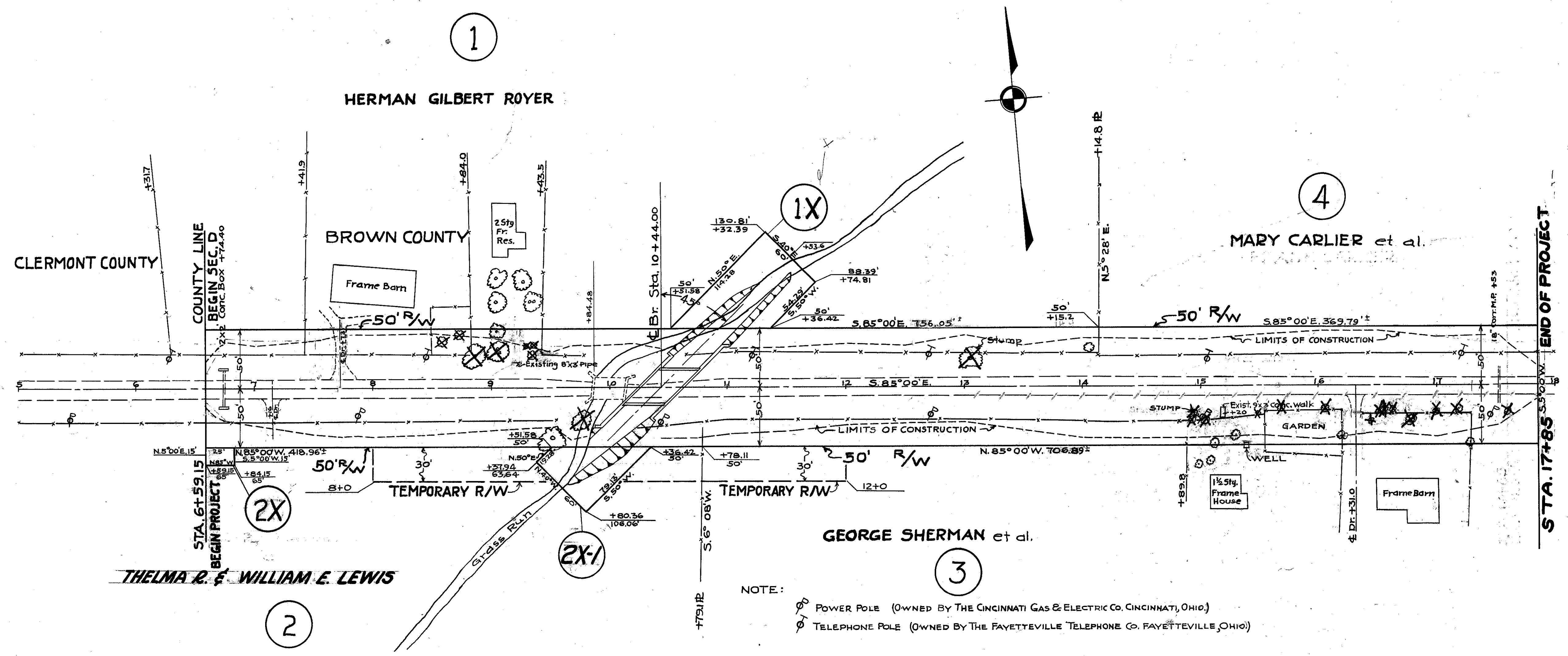
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
F.B.B.	F.B.B.	G.S.	J.H.C.	M.F.C.	4/21/41	10-6-45

BFG





SR. 131



NOTE:  
 ○ POWER POLE (OWNED BY THE CINCINNATI GAS & ELECTRIC CO. CINCINNATI, OHIO.)  
 ○ TELEPHONE POLE (OWNED BY THE FAYETTEVILLE TELEPHONE CO. FAYETTEVILLE, OHIO.)

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