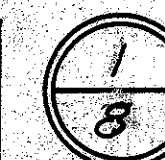


FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	609-A	1929



S. H. 50 SEC. H-1
FRANKLIN COUNTY

Recd May 1/31

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BRIDGES OVER SCIOTO BIG RUN
AND NORTH FORK OF SCIOTO BIG RUN
COLUMBUS-WASHINGTON C.H. ROAD

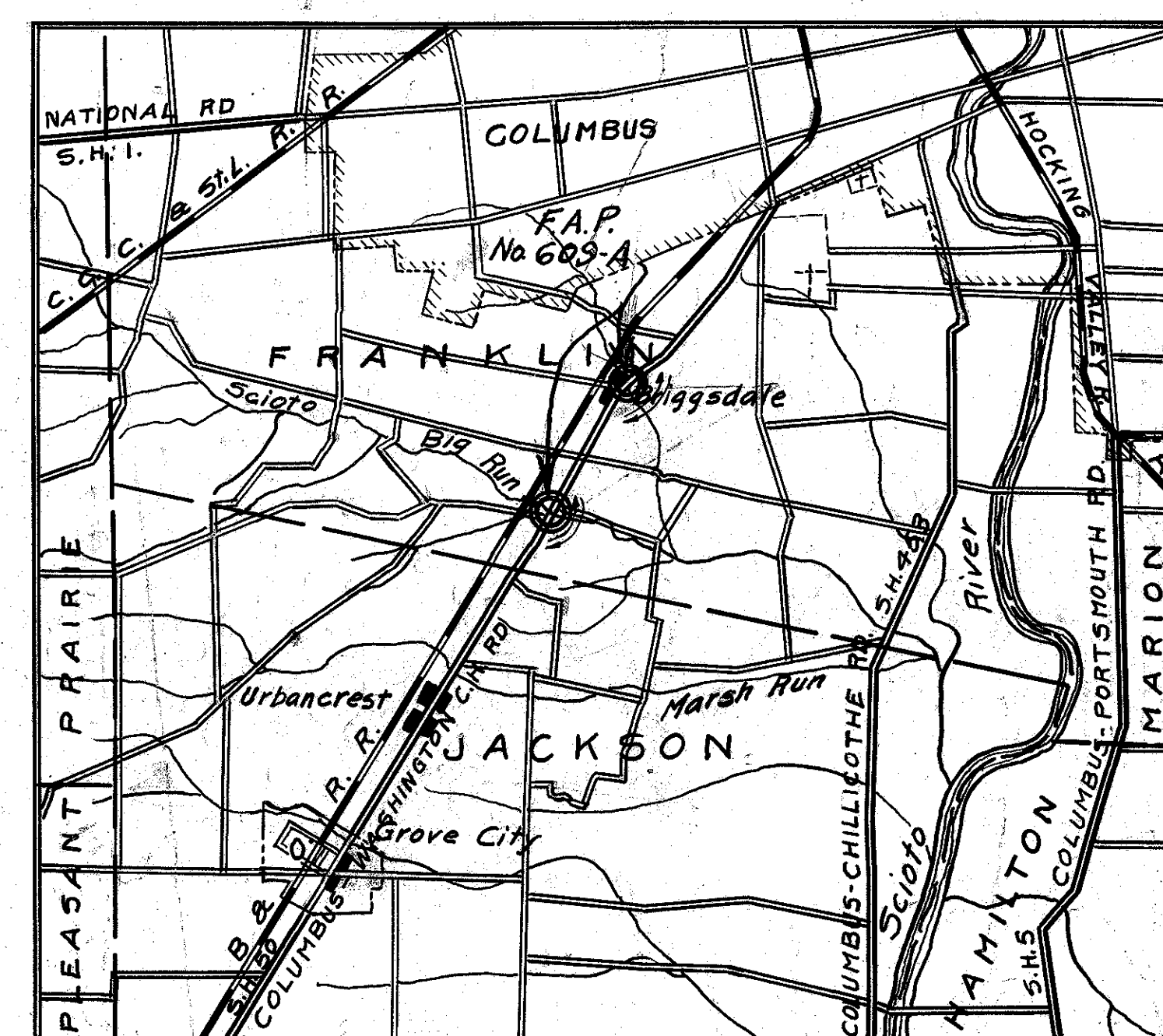
S. H. 50 SEC. H-1 PET. NO.

FRANKLIN COUNTY

FRANKLIN TOWNSHIP

CONVENTIONAL SIGNS

State Line	----
County Line	----
Township Line	----
Section Line	----
Property Line not fenced	----
Center Line	----
City or Village Line	----
Fence	----
Telephone or Telegraph	TTTTTT
Steam Railroad	=====
Electric Line	++++++
Guard Rail	
Drain pipe - new	----
Drain pipe - old	----



LOCATION PLAN

SCALE OF MILES

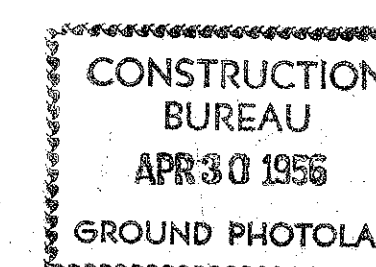


PORTIONS TO BE IMPROVED
DETOURS SHOWN THUS
IMPROVED ROADS



INDEX OF SHEETS	PAGE
TITLE PAGE	1
ALIGNMENT & PROFILE (Sta. 113+84.6)	2
SITE PLAN (Sta. 113+84.6)	3
STRUCTURAL PLANS (Sta. 113+84.6)	4, 5 & 6
STRUCTURAL PLAN (Sta. 166+36.3)	7

SUPPLEMENTAL PRINTS OF STRUCTURAL
STANDARDS. DRS. NO. B-50-31, SRA, A5-31



The Standard Specifications of the State of Ohio,
Department of Highways, in force on date of contract,
will govern this improvement

I hereby approve these plans and declare that the
making of this improvement will not require the closing
to traffic of the highway and that detour bridges will be
provided as shown on the plan and estimates.

Approved: _____
Date: _____ Resident District
Deputy Director.

Approved: L. N. Wisman
Date: 4-28-31 Resident Division
Deputy Director.

Approved: Elmer Hilly
Date: 5-1-31 Deputy Director
Bureau of Construction.

Approved: _____
Date: _____ Deputy Director
Bureau of Maintenance.

Approved: J. V. Burkey
Date: 4-28-31 Deputy Director
Bureau of Bridges.

Approved: H. P. Chapman
Date: 4-24-31 Chief Engineer
First Assistant Director.

Approved: O. L. Merrill
Date: 4-24-31 Director of Highways.

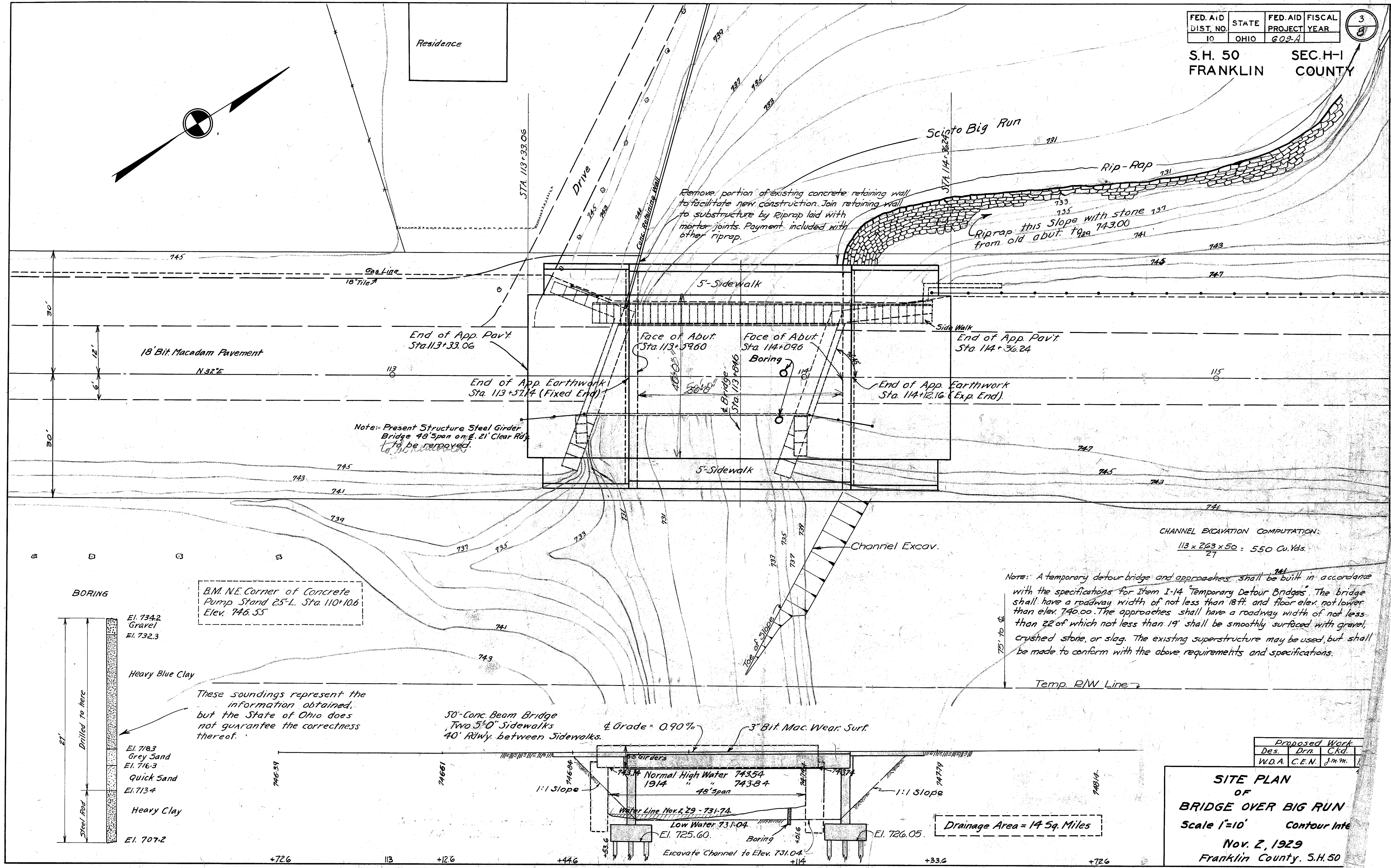
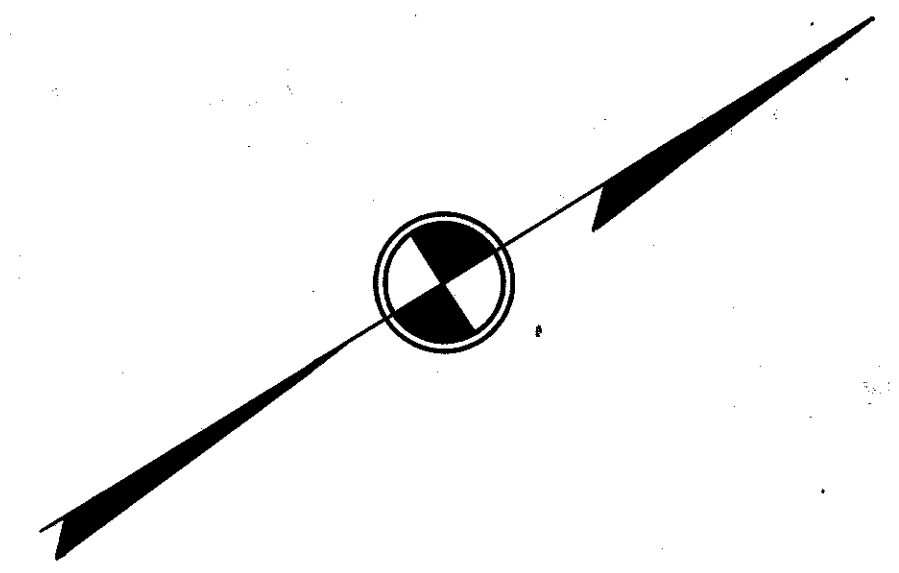
Recommended for Approval: _____
Date: _____ District Engineer
Bureau of Public Roads.

Recommended for Approval: _____
Date: _____ Chief Engineer
Bureau of Public Roads.

Approved: _____
Date: _____ Chief of Bureau.

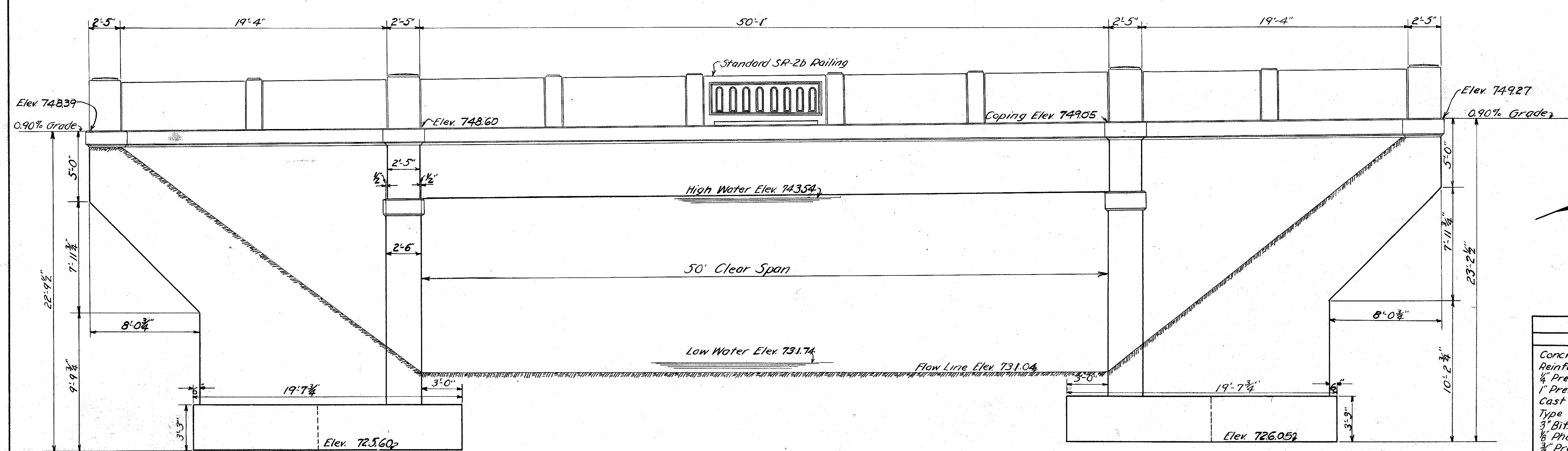
FRANKLIN 50 H-1

1931 Contract No. 4739
Letting Date 5-19-31

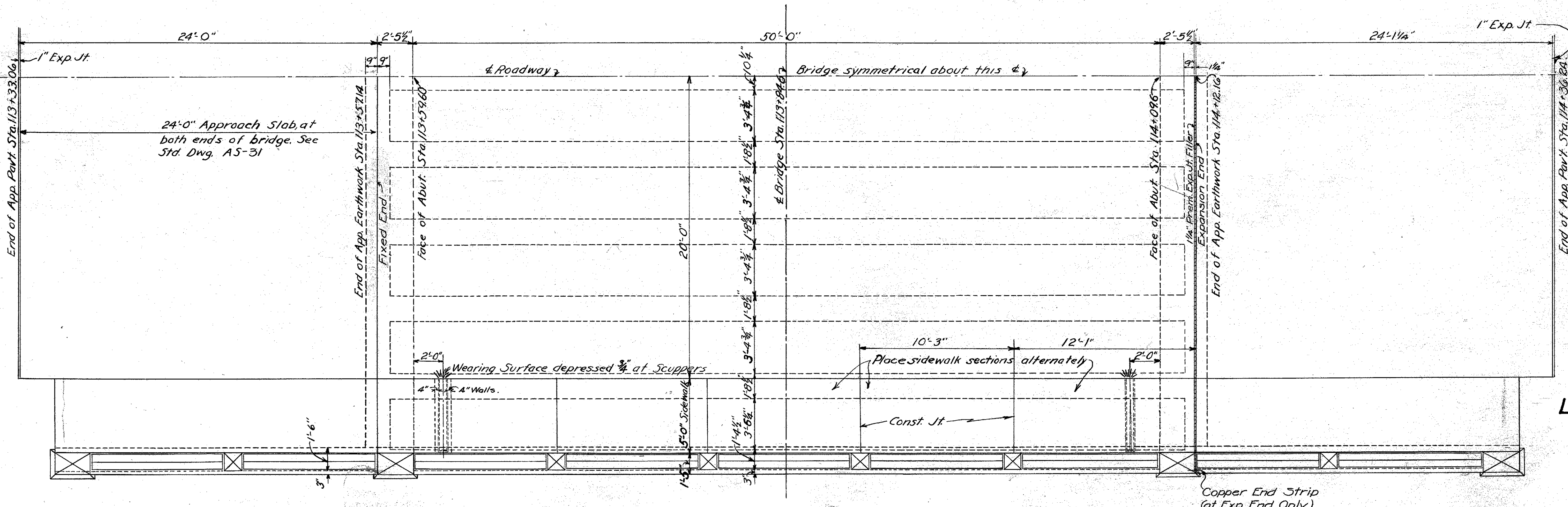


Proposed Work		
Des.	Drn.	Ckd.
W.D.A.	C.E.N.	J.M.M.

SITE PLAN
 OF
BRIDGE OVER BIG RUN
 Scale 1"=10'
 Contour Int.
 Nov. 2, 1929
 Franklin County, S.H. 50



ELEVATION



GENERAL PLAN

GENERAL NOTES
The Superstructure shall consist of one Conc. Beam Span, with special outside beam design, 50 Ft. Span, 40 Ft. Rwy, two 5' Sidewalks with Type SR-2-b Railing. For details not shown on these sheets see Std. Dwg. B-5031, SR-A and AS-31.
The Substructure shall consist of "U-Wing" type Abuts. Full details are shown on these sheets.
Camber, Acamber, of 1/8" under full dead load shall be provided.
Excavation, All excavation below Elev. 731.74 shall be classified

as "Wet Excavation" and all above El. 731.04 as "Dry Excavation" except that included in Channel Excavation.
Concrete, All concrete in Superstructure and walls shall be 1 1/2" mix. All conc. in footings shall be 1.6 1/2" mix.
Removal, of the present superstructure to be done under the direction of the Engineer. After its use as a detour bridge, present bridge to be carefully dis-

mantled and piled on RofW. at disposal of State of Ohio. Stone from old Abuts. to be used as Rip-Rap and placed under direction of the Engineer.
Construction Joints, No horizontal construction joints other than those shown will be permitted. Vertical construction joints, other than those shown, necessary for construction allowed only by special permission of the Engineer. All con-

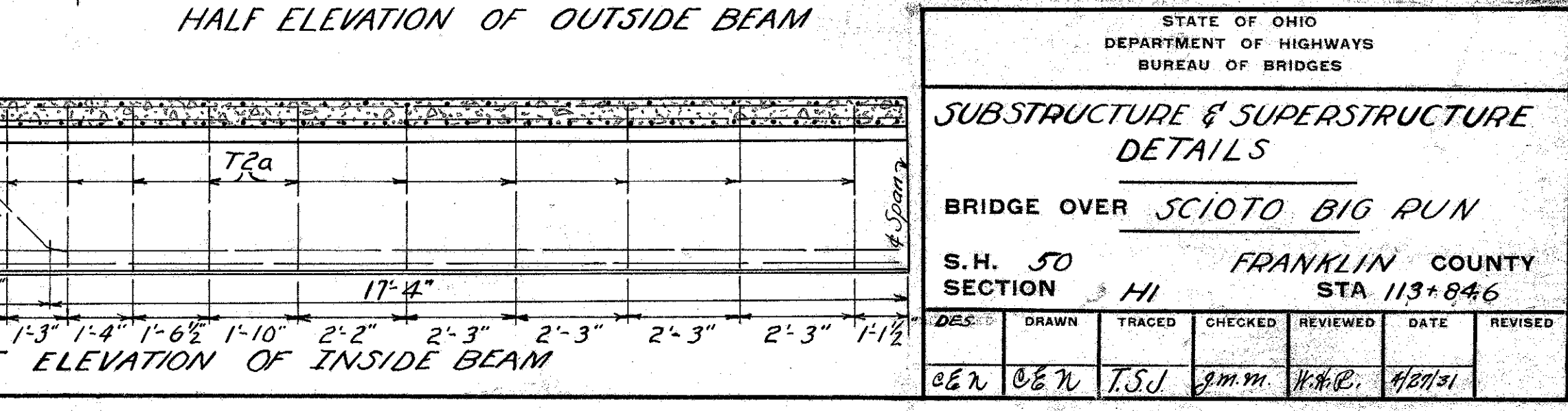
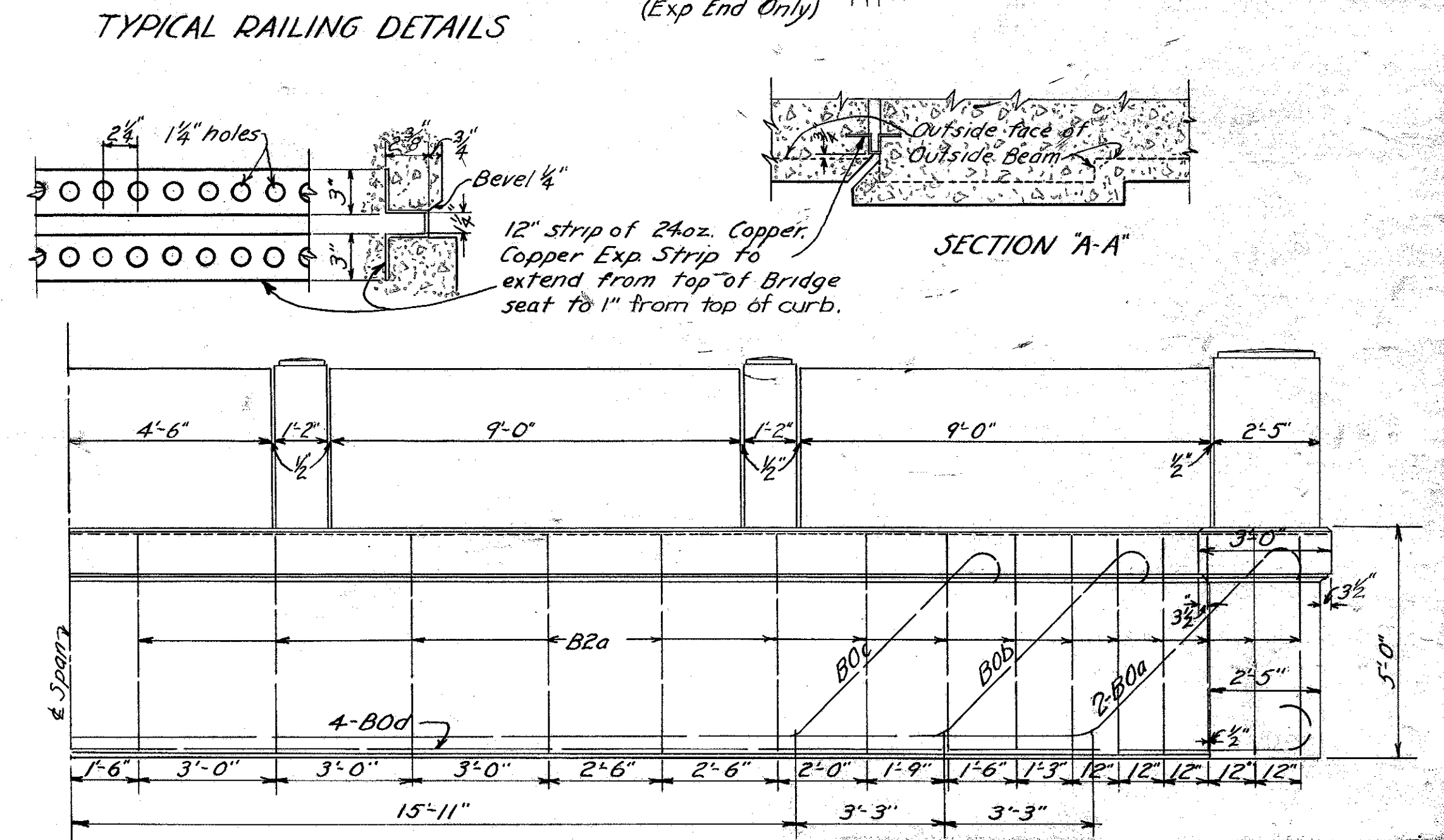
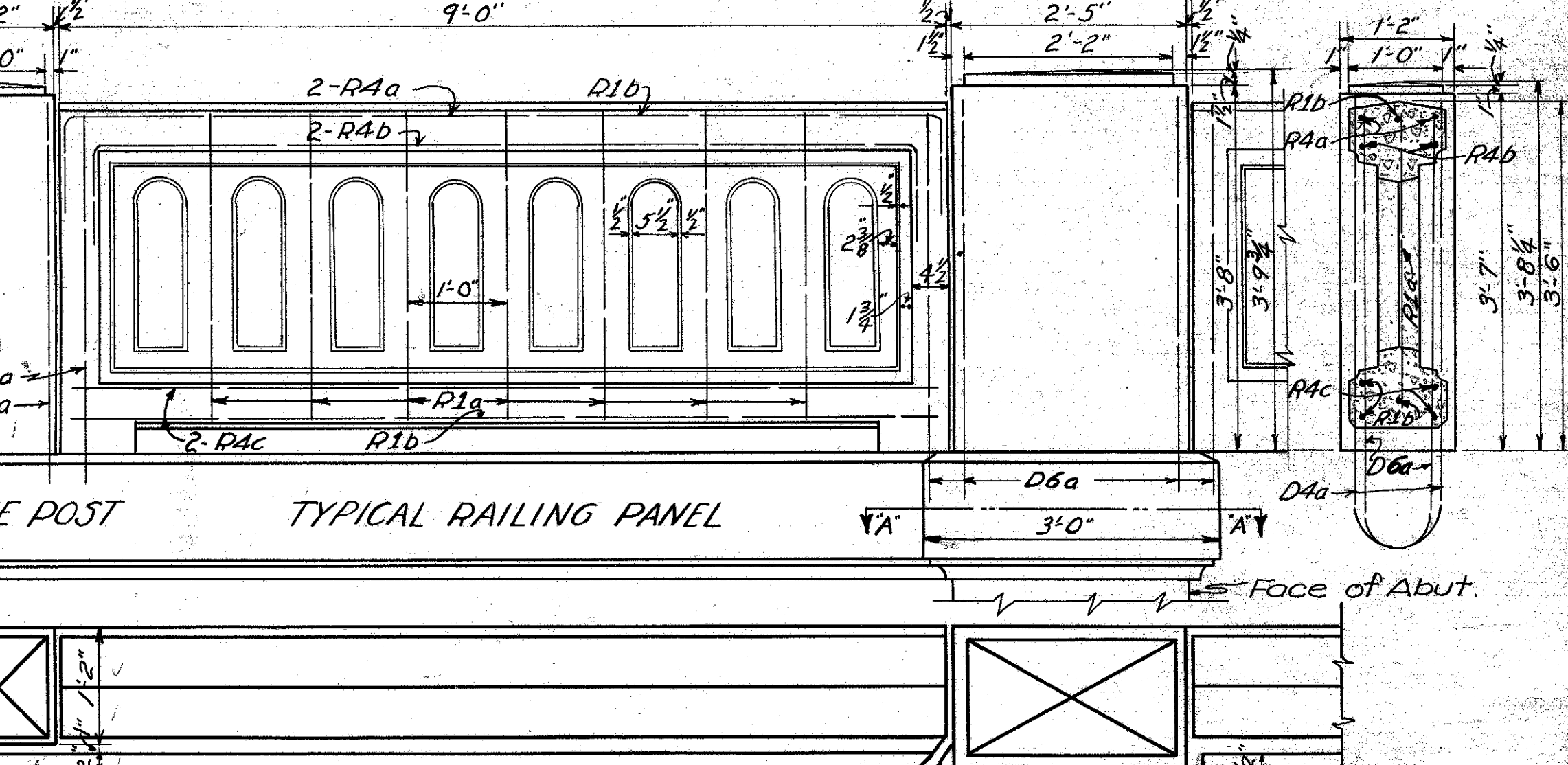
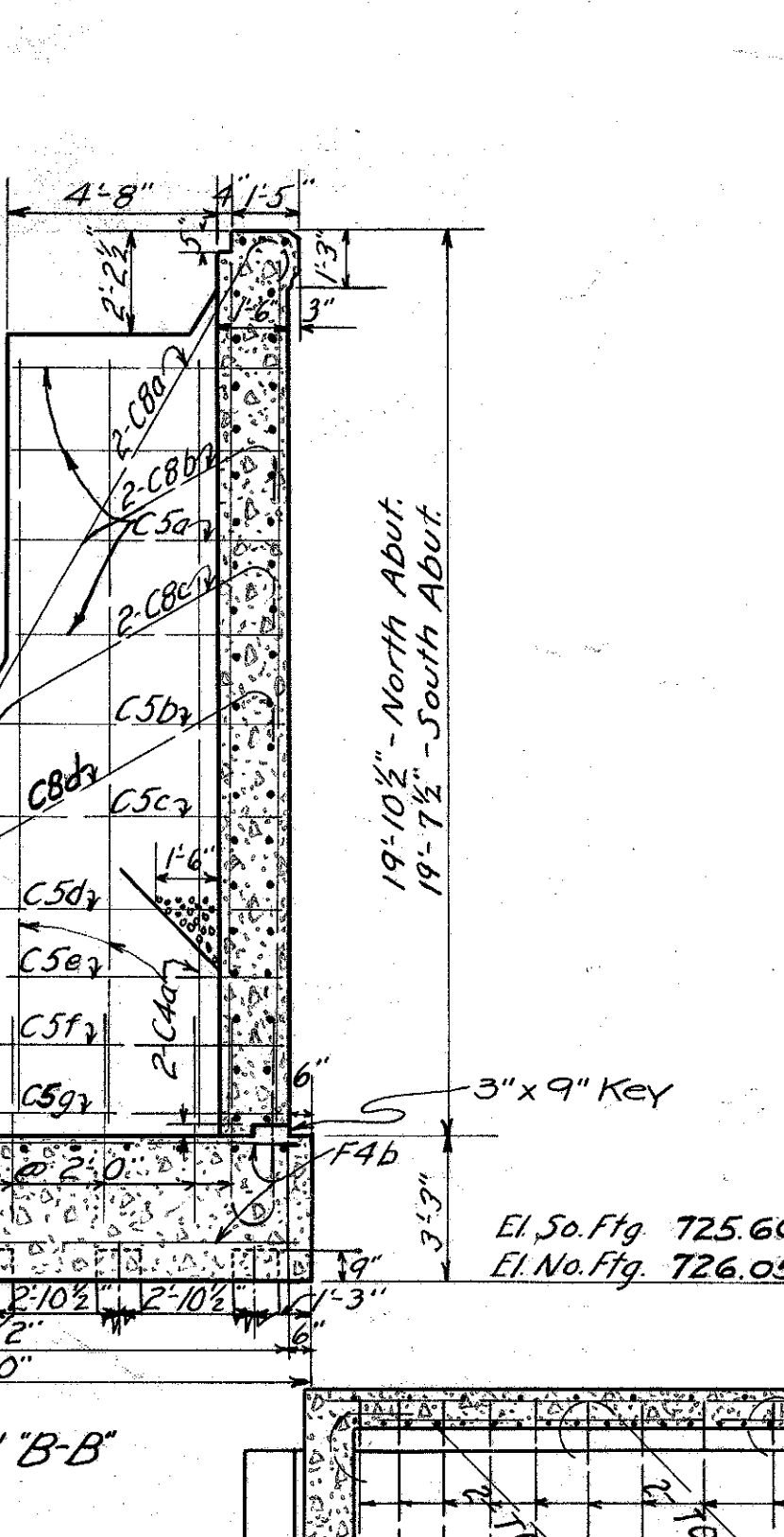
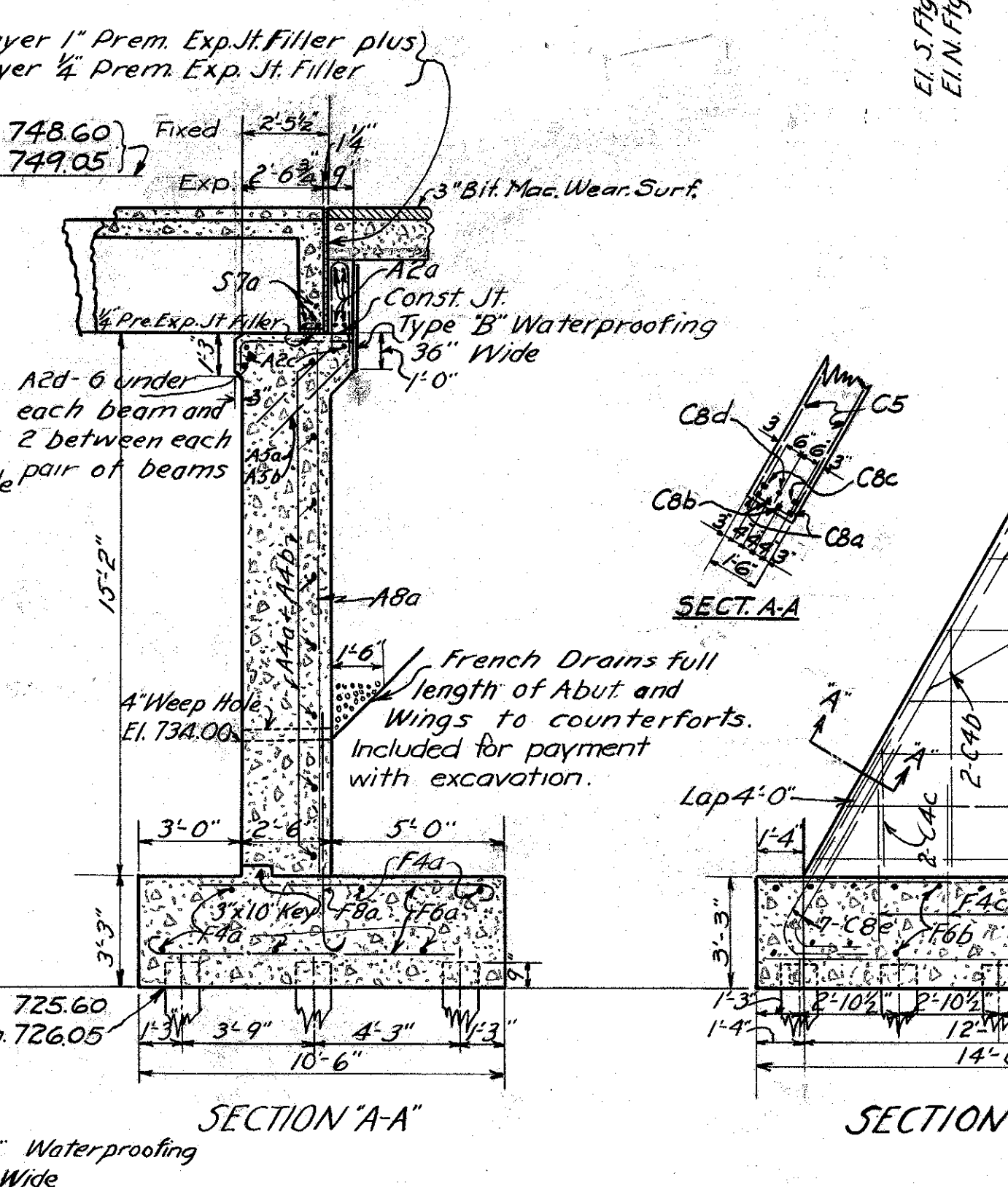
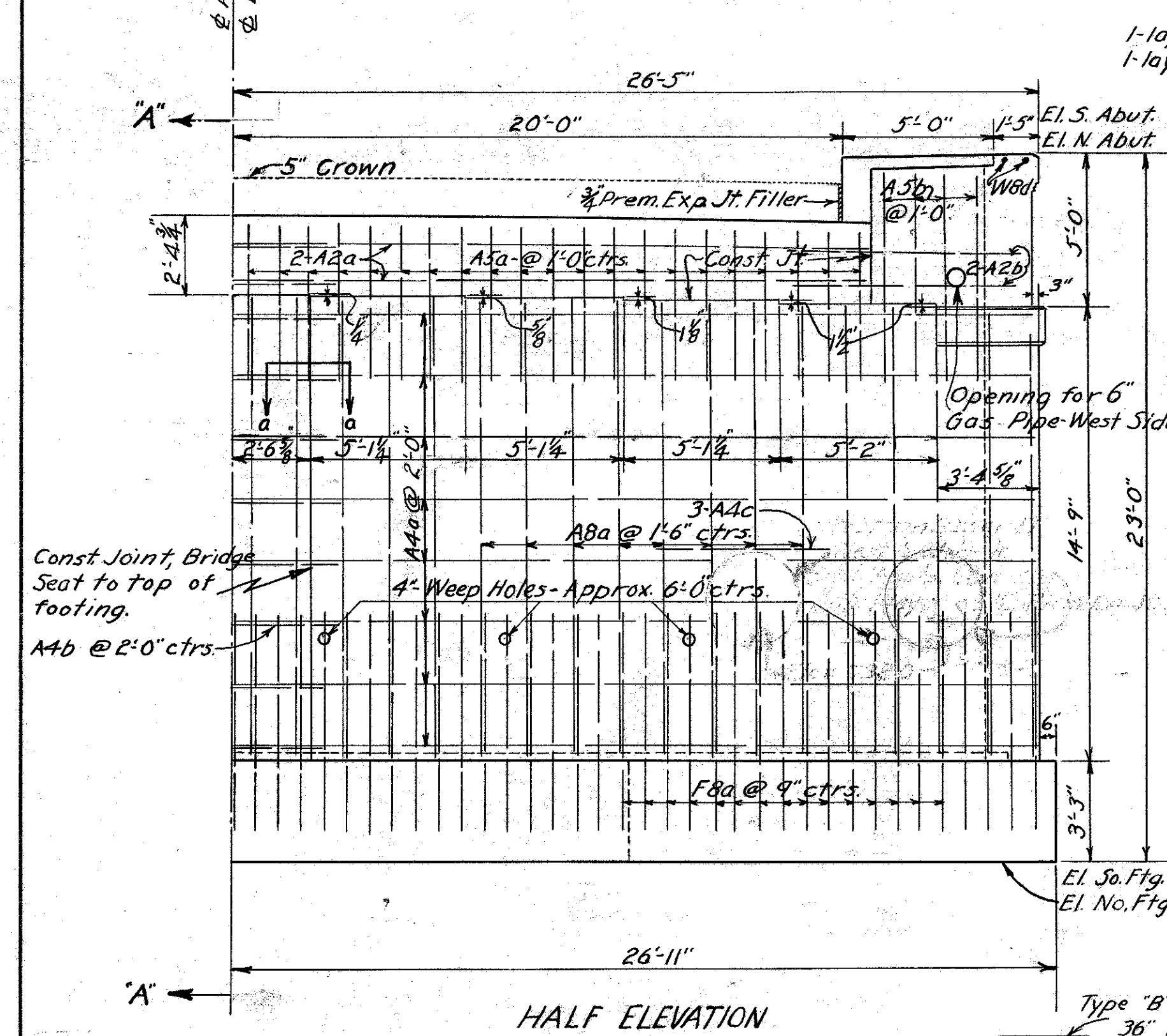
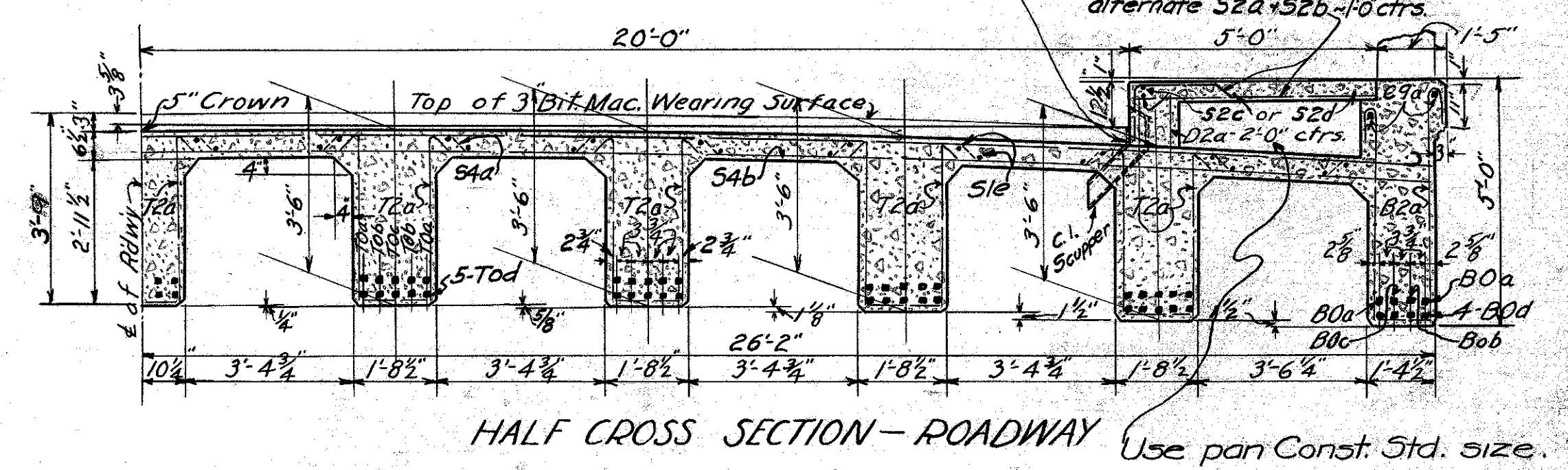
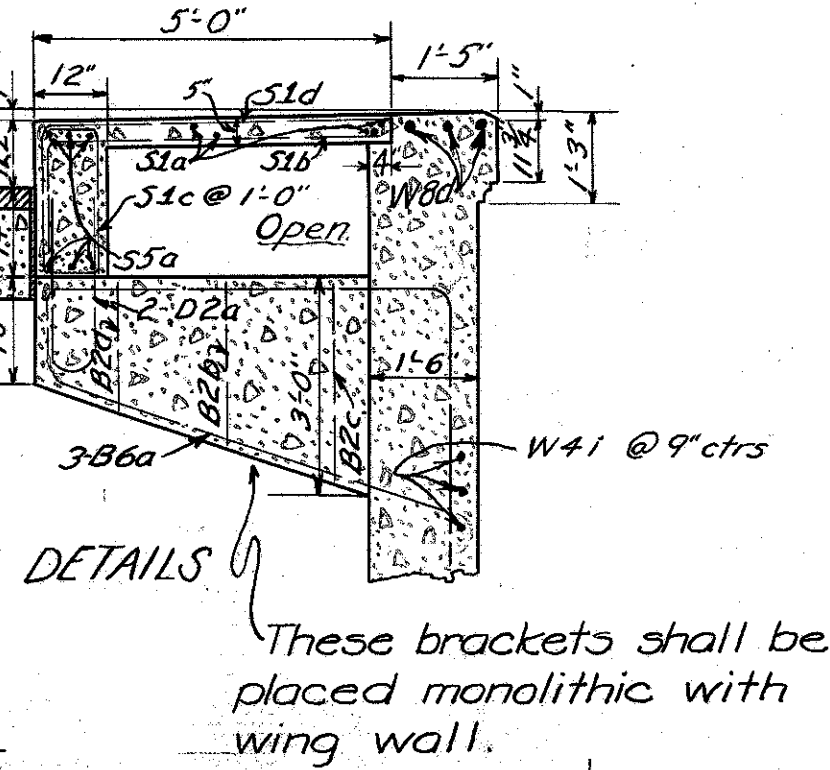
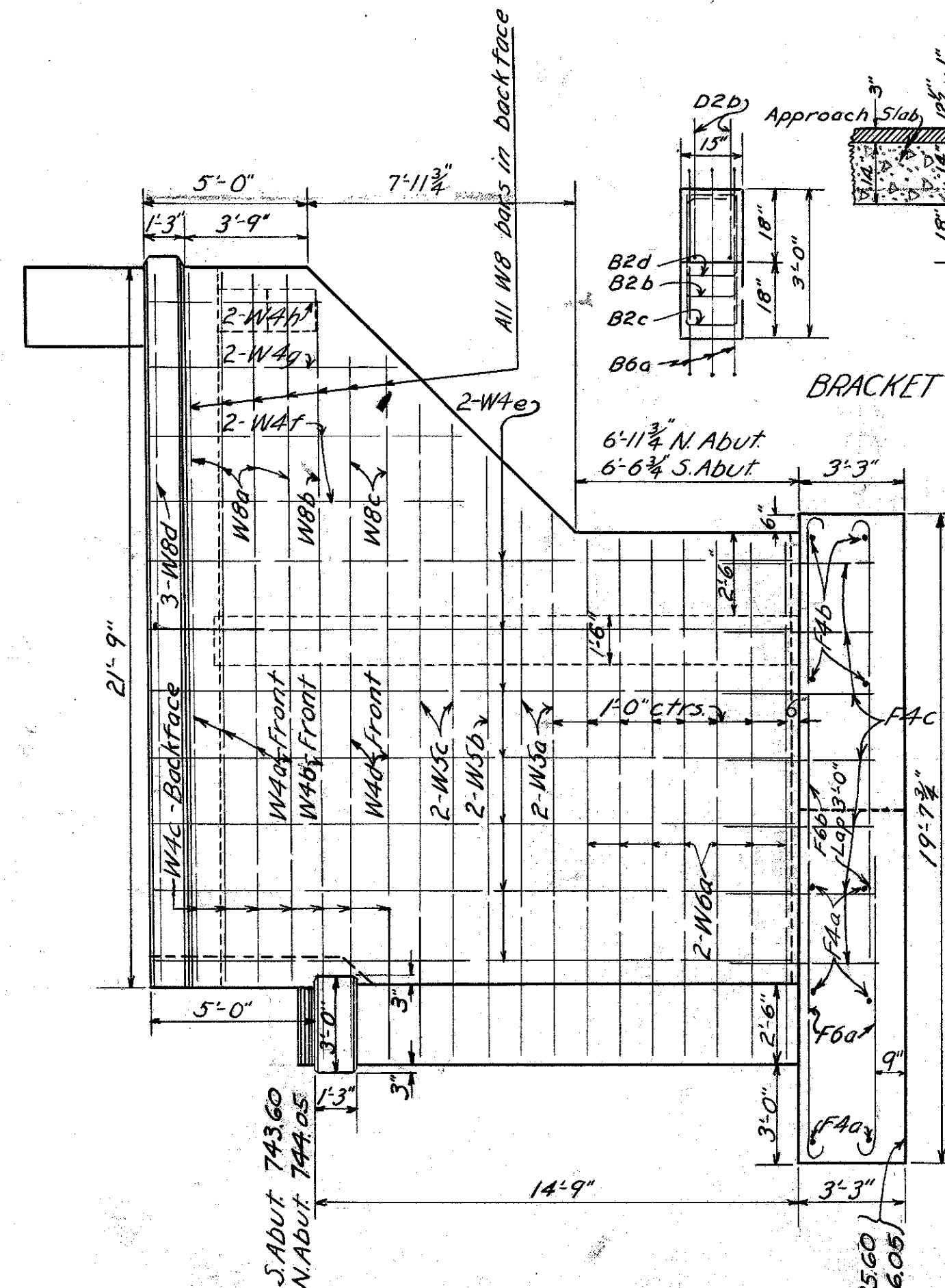
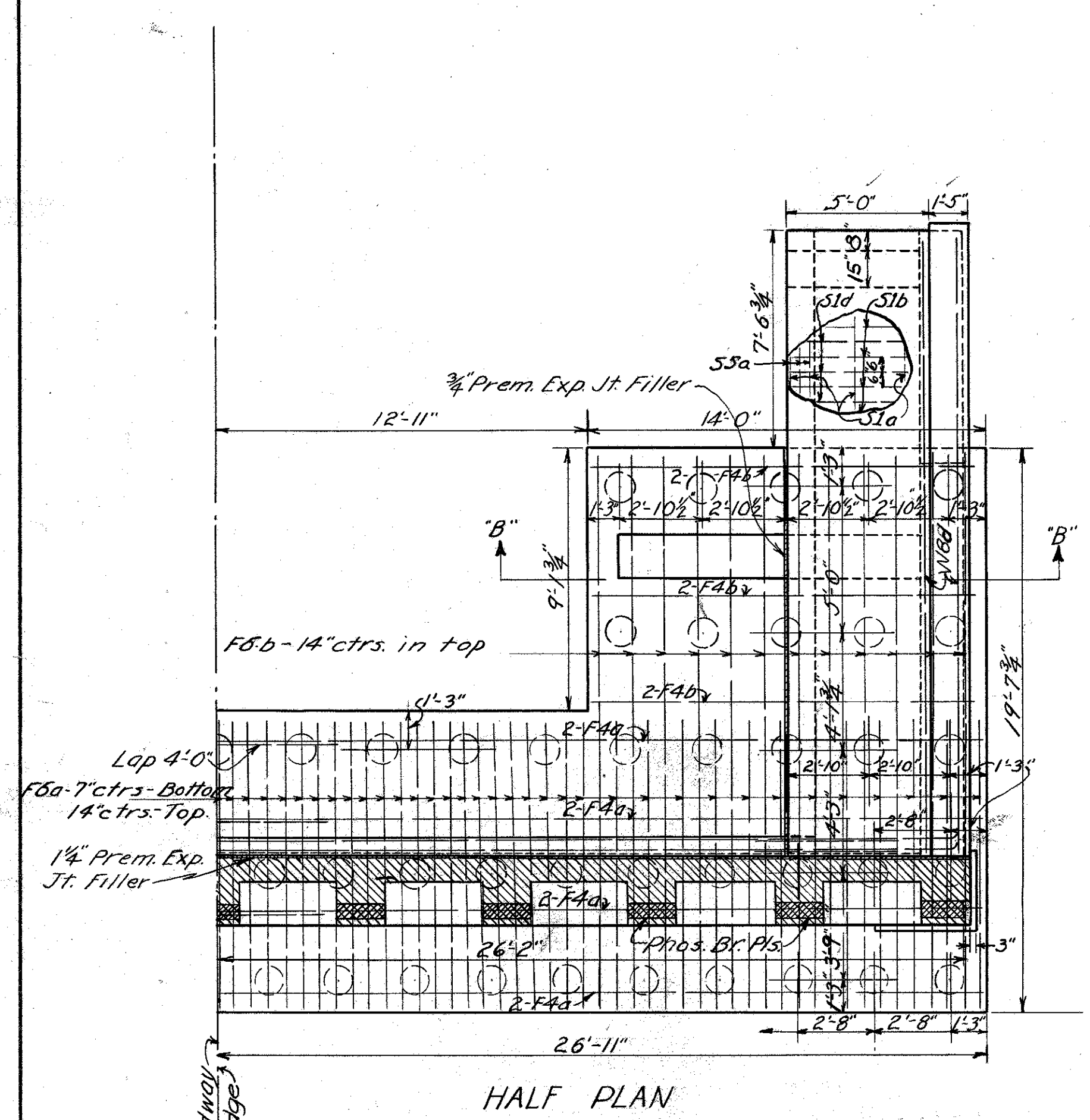
struction joints above low water (Elev. 731.04) shall be sealed on back with Type "B" Waterproofing. Removal of existing abutments included in channel and structural excavation quantities for payment.
Piling, Contractor shall drive test pile before ordering other piling.

QUANTITIES	
SUPERSTRUCTURE	
Concrete 1.5 1/2 Mix (Beams, Slab, Sidewalks)	194.8 Cu. Yds.
Reinforcing Steel	49,595-49,940 LBS.
1/4" Prem. Exp. Jt. Filler	330 Sq. Ft.
1" Prem. Exp. Jt. Filler	206 Sq. Ft.
Cast Iron Scuppers	4 Pieces.
Type SR-2b Railing	197 Lin. Ft.
3" Bit. Mac. Wearing Surface	243 Sq. Yds.
1/8" Phos. Bronze Plates	124 LBS.
1/4" Prem. Exp. Jt. Filler	36 Sq. Ft.
SUBSTRUCTURE	
Concrete 1.6 1/2 Mix (Footings)	198 Cu. Yds.
Dry Excavation	300 Cu. Yds.
Wet Excavation	420 Cu. Yds.
Channel Excavation	550 Cu. Yds.
Reinforcing Steel	34,020 LBS.
Reinforced Conc. App. Slab (14" thick)	213 Sq. Yds.
Timber Piling (Assumed Length 20')	3,160 Lin. Ft.
Cofferdams, Sheet piling + Pumping	Lump
Removing Existing Structure	Lump
Type "B" Waterproofing	40 Sq. Yds.
Concrete 1.5 1/2 Mix (Walls, Counterforts, Abut. Sidewalks + Brackets)	2748 Cu. Yds.
12" Strip of 24oz. Copper	10 Lin. Ft.
Temp. Detour Bridge + Approaches	Lump
1/4" Prem. Exp. Jt. Filler	112 Sq. Ft.
1/4" Prem. Exp. Jt. Filler	53 Sq. Ft.
Riprap	180 Sq. Yds.

Footings shall be accurately placed and firmly anchored before footing concrete is placed. Before wall concrete is placed, top of footings shall be thoroughly cleaned of laitance and all foreign matter.
French Drains, Payment for French Drains, full length of Abutments and Wings, to counterforts, included with excavation and backfill.
Chamfer, All exposed edges not otherwise shown, shall have a 3/4" chamfer.

LOWER ALL STRUCTURAL ELEV. .08

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES	
GENERAL PLAN & ELEVATION	
BRIDGE OVER SCIOTO BIG RUN	
S.H. 50	FRANKLIN COUNTY
SECTION H1	STA. 113+846
DESIGNED	DRAWN
TRACED	CHECKED
REVIEWED	DATE
REVISOR	REVISION



STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES						
SUBSTRUCTURE & SUPERSTRUCTURE DETAILS						
BRIDGE OVER SCIOTO BIG RUN						
S.H. 50			FRANKLIN COUNTY			
SECTION HI			STA 113+84.6			
DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
08/2	08/2	T.S.U.	g.m.m.	11/1/31	4/21/31	

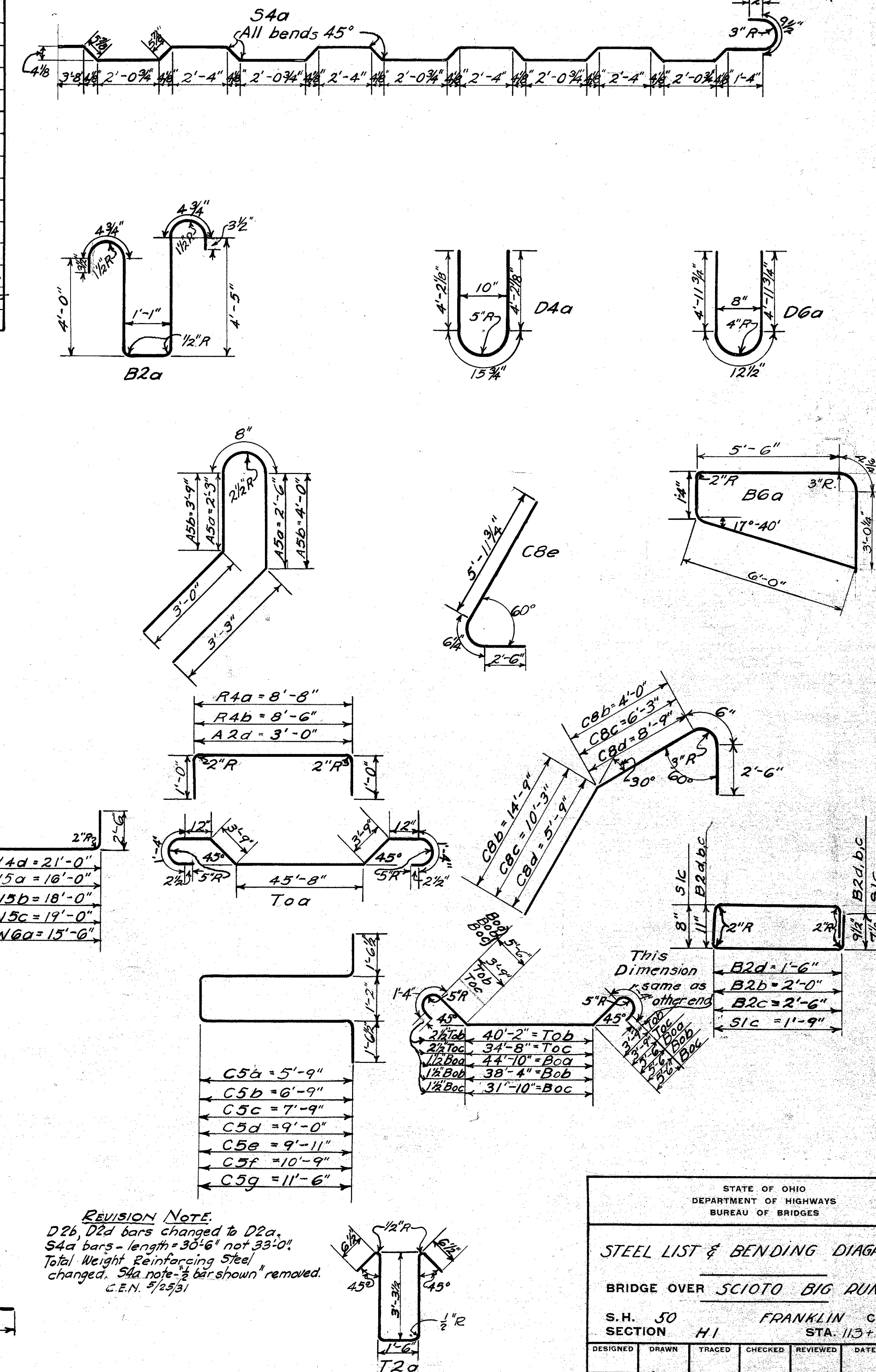
FRANKLIN COUNTY
S.H. 50 SEC. H (BRIDGE)

SUBSTRUCTURE					
Mark	Size	Shape	N ^o	Length	Weight
F8a	1"φ	Bent	142	8'-6"	4109
F6a	5/8"φ	Bent	276	9'-3"	5223
F6b	7/8"φ	Bent	64	20'-6"	2684
F4a	5/8"φ	Str.	24	29'-3"	733
F4b	5/8"φ	Str.	24	13'-6"	338
F4c	5/8"φ	Bent	48	9'-7"	480
A8a	1"φ	Str.	72	14'-6"	3553
A4a	5/8"φ	Bent	16	28'-6"	476
A4b	5/8"φ	Bent	16	31'-0"	518
A4c	5/8"φ	Str.	6	5'-0"	31
A5a	3/4"φ	Bent	84	11'-8"	1473
A5b	3/4"φ	Bent	16	14'-8"	353
A2a	1/2"φ	Str.	16	23'-0"	246
A2b	1/2"φ	Bent	16	10'-3"	110
A2c	1/2"φ	Str.	44	5'-0"	147
A2d	1/2"φ	Bent	172	5'-0"	574
C5a	3/4"φ	Bent	16	15'-9"	379
C5b	3/4"φ	Bent	4	17'-9"	107
C5c	3/4"φ	Bent	4	19'-9"	119
C5d	3/4"φ	Bent	4	22'-3"	134
C5e	3/4"φ	Bent	4	24'-1"	145
C5f	3/4"φ	Bent	4	25'-9"	155
C5g	3/4"φ	Bent	4	27'-3"	164
C8a	1"φ	Bent	8	23'-3"	633
C8b	1"φ	Bent	8	21'-9"	592
C8c	1"φ	Bent	8	19'-6"	531
C8d	1"φ	Bent	4	17'-6"	238
C8e	1"φ	Bent	28	9'-0"	858
C4a	3/8"φ	Str.	24	16'-9"	420
C4b	3/8"φ	Str.	8	7'-0"	58
C4c	3/8"φ	Str.	8	3'-6"	29
W4a	5/8"φ	Str.	16	21'-0"	351
W4b	5/8"φ	Str.	4	20'-6"	86
W4c	5/8"φ	Str.	28	13'-6"	395
W4d	5/8"φ	Bent	8	23'-6"	196
W4e	5/8"φ	Str.	56	19'-6"	1140
W4f	5/8"φ	Str.	16	9'-3"	155
W4g	5/8"φ	Str.	8	7'-6"	63
W4h	5/8"φ	Str.	8	5'-6"	46
W4i	5/8"φ	Str.	12	5'-0"	63
W5a	3/4"φ	Bent	16	18'-6"	445
W5b	3/4"φ	Bent	8	20'-6"	246
W5c	3/4"φ	Bent	16	21'-6"	517
W6a	7/8"φ	Bent	56	18'-0"	2062
W8a	1"φ	Str.	16	14'-3"	776
W8b	1"φ	Str.	4	13'-6"	184
W8c	1"φ	Str.	8	12'-0"	327
W8d	1"φ	Str.	12	21'-6"	878

SUBSTRUCTURE					
Mark	Size	Shape	N ^o	Length	Weight
B2b	1/2"φ	Bent	4	6'-2"	16
B2c	1/2"φ	Bent	4	7'-2"	19
B2d	1/2"φ	Bent	4	5'-2"	14
B6a	7/8"φ	Bent	12	16'-3"	399
D2a	1/2"φ	Bent	8	6'-0"	32
				Total	34020

SUPERSTRUCTURE					
Mark	Size	Shape	N ^o	Length	Weight
S1a	3/8"φ	Str.	16	21'-6"	129
S1b	3/8"φ	Bent	88	6'-2"	204
S1c	3/8"φ	Bent	88	5'-0"	165
S1d	3/8"φ	Str.	84	4'-9"	150
S1e	3/8"φ	Str.	40	54'-6"	820
S1f	3/8"φ	Str.	132	27'-6"	1365
S5a	3/4"φ	Str.	24	21'-6"	776
S2a	1/2"φ	Bent	110	5'-10"	428
S2b	1/2"φ	Str.	110	4'-9"	349
S2c	1/2"φ	Str.	24	10'-0"	160
S2d	1/2"φ	Str.	16	11'-9"	126
S4a	5/8"φ	Bent	132	30'-6"	4203
S4b	5/8"φ	Str.	132	28'-6"	3928
C9a	1 1/8"φ	Str.	4	54'-6"	939
T0a	1 1/4"φ	Bent	18	58'-3"	5575
T0b	1 1/4"φ	Bent	18	50'-9"	4857
T0c	1 1/4"φ	Bent	9	45'-3"	2165
T0d	1 1/4"φ	Bent	45	56'-3"	13463
T2a	1/2"φ	Bent	360	9'-2"	2205
D2a	1/2"φ	Bent	56	6'-0"	224
B0a	1 1/4"φ	Bent	4	58'-9"	1249
B0b	1 1/4"φ	Bent	2	52'-3"	556
B0c	1 1/4"φ	Bent	2	45'-9"	487
B0d	1 1/4"φ	Bent	8	56'-3"	2393
B2a	1/2"φ	Bent	60	10'-10"	434
S7a	1"φ	Str.	6	52'-0"	834

SUPERSTRUCTURE					
Mark	Size	Shape	N ^o	Length	Weight
D4a	5/8"φ	Bent	24	9'-8"	242
D6a	7/8"φ	Bent	52	11'-0"	1170
R4a	5/8"φ	Bent	36	10'-8"	
R4b	7/8"φ	Bent	36	10'-6"	
R4c	5/8"φ	Str.	72	8'-0"	
R1a	3/8"φ	Str.	126	3'-0"	
R1b	3/8"φ	Str.	36	8'-0"	
				Total	49,595



STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES							
STEEL LIST & BENDING DIAGRAMS							
BRIDGE OVER SCIOTO BIG RUN							
S.H. 50				FRANKLIN COUNTY			
SECTION H1				STA. 113+84.6			
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
087	087	G.H.J.	J.M.M.	W.H.C.	4/27/31	5.25.31	