

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	STATE	404

MONTGOMERY-GREENE COUNTY
MOT-4-20.50
GRE-4-0.00

MOT-4-20.50 GRE-4-0.00 MONTGOMERY COUNTY - GREENE COUNTY

MAD RIVER TOWNSHIP BATH TOWNSHIP
CITY OF DAYTON
GRADE SEPARATION WITH THE BALTIMORE AND OHIO RAILROAD COMPANY

Plans Prepared by ELMER S. BARRETT ASSOCIATES

Elmer S. Barrett

249 S. Paint St

Chillicothe, Ohio

CONVENTIONAL SIGNS

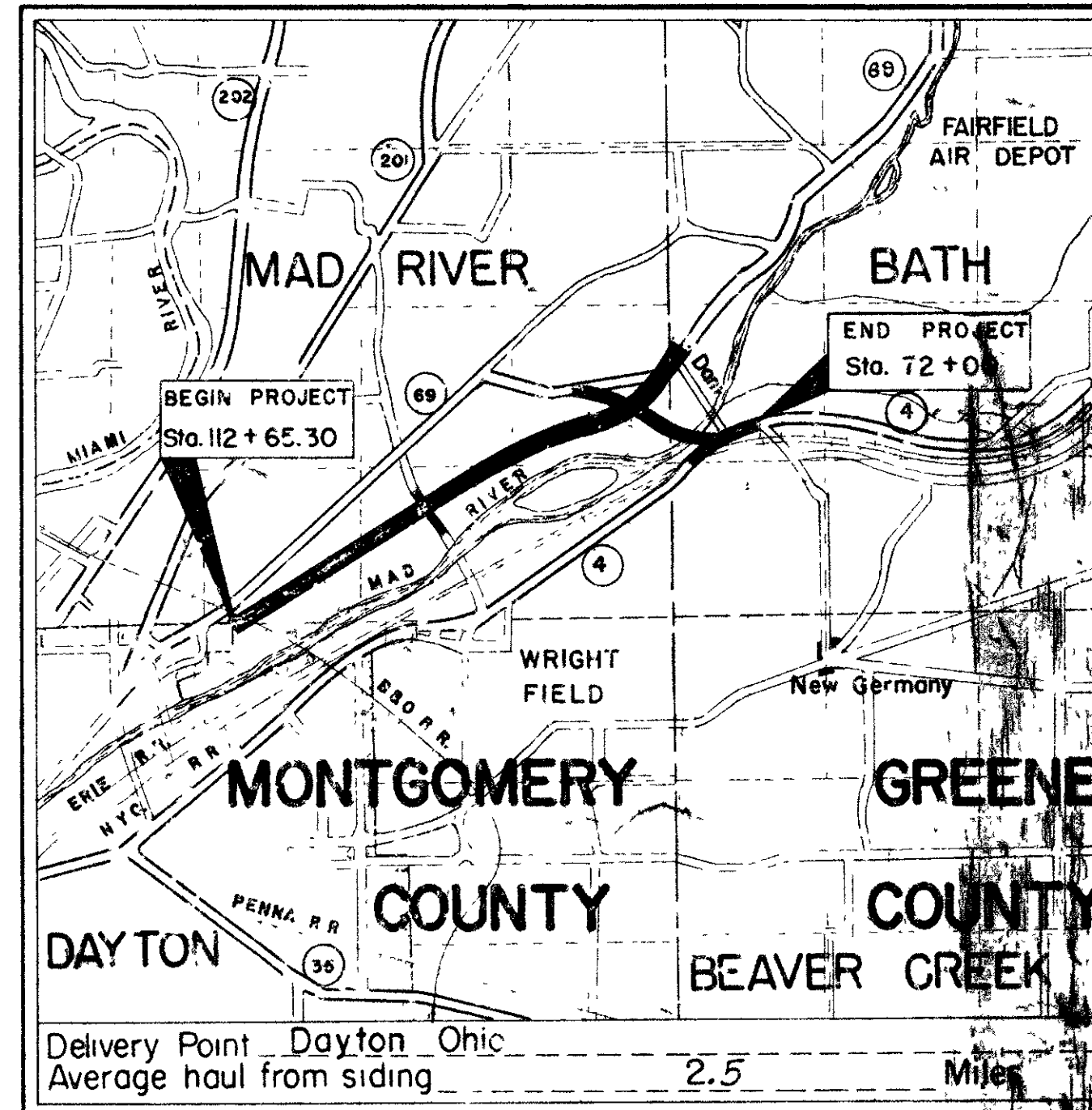
State Line	-----
County Line	-----
Township Line	-----
Section Line	-----
Center Line	-----
Corporation Line	-----
Fence Line	-----
Guard Rail (existing)	-----
Guard Rail (proposed)	-----
Steam Railroad	-----
Power Poles	-----
Telephone Poles	-----
Trees & Stumps (Existing)	-----
Trees & Stumps (To be removed)	-----

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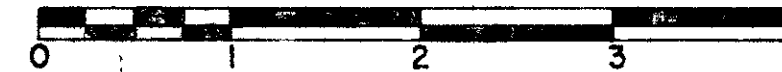
LINE DATA

Project	112+65.30	Back	270+84.19	15,818.89 Lin. Ft.
SR 69 Interchange Equation		Ahead	24+80.52	4,719.48 Lin. Ft.
SR 69 Interchange Station			72+00.00	20,538.37 Lin. Ft.
Gross Length of Project				
Equations				
2.95 Back = 168+37.50 Ahead				+15.45 Lin. Ft.
5.48 Back = 237+13.24 Ahead				+3.24 Lin. Ft.
Net Length of Project				20,557.06 Lin. Ft. or 3.893 Miles
Approaches: Sta. 112+10 to Sta. 112+65.30				55.30 Lin. Ft.
main Road 13+00 to 42+40				+2340.00 Lin. Ft.
Existing S.R. 69 - 5+00 to 24+80.52				+1980.52 Lin. Ft.
Proposed S.R. 69 - 270+94.19 to 290+60.60				+1976.41 Lin. Ft.
Montgomery County 270+84.19 to 290+60.60				450.00 Lin. Ft.
Greene County 0+00 to 4+50				
Net Length of Work				27,959.29 Lin. Ft. or 5.295 Miles



LOCATION MAP

SCALE OF MILES



Portion to be improved
Federal Roads
State Roads
Other Roads

SCALE

Plan
Profile: Horizontal
Profile: Vertical

The standard specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement

The right of way necessary for this improvement will be provided by the State of Ohio.

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 provisions for maintenance and safety of traffic will be set forth on these plans and estimates.

Approved: *J. S. Patton*
Date: 10-25-56 Division Deputy Director

Approved: *Robert H. ...*
Date: 11-2-56 Deputy Director of Planning and Programming

Approved: *J. H. Overman*
Date: 11-8-56 Engineer of Bridges

Approved: *E. D. ...*
Date: 11-9-56 Engineer of Location and Design

Approved: *H. F. Gerold*
Date: 11-8-56 Deputy Director of Design and Construction

Approved: *S. J. Schaublin*
Date: 11-15-56 First Ass't Director

Approved: *S. D. ...*
Date: 11-15-56 Director of Highways

Approved: *K. J. WAGONER*
Date: 11-29-56 Chief Engineer, Baltimore and Ohio Railroad

LIMITED ACCESS

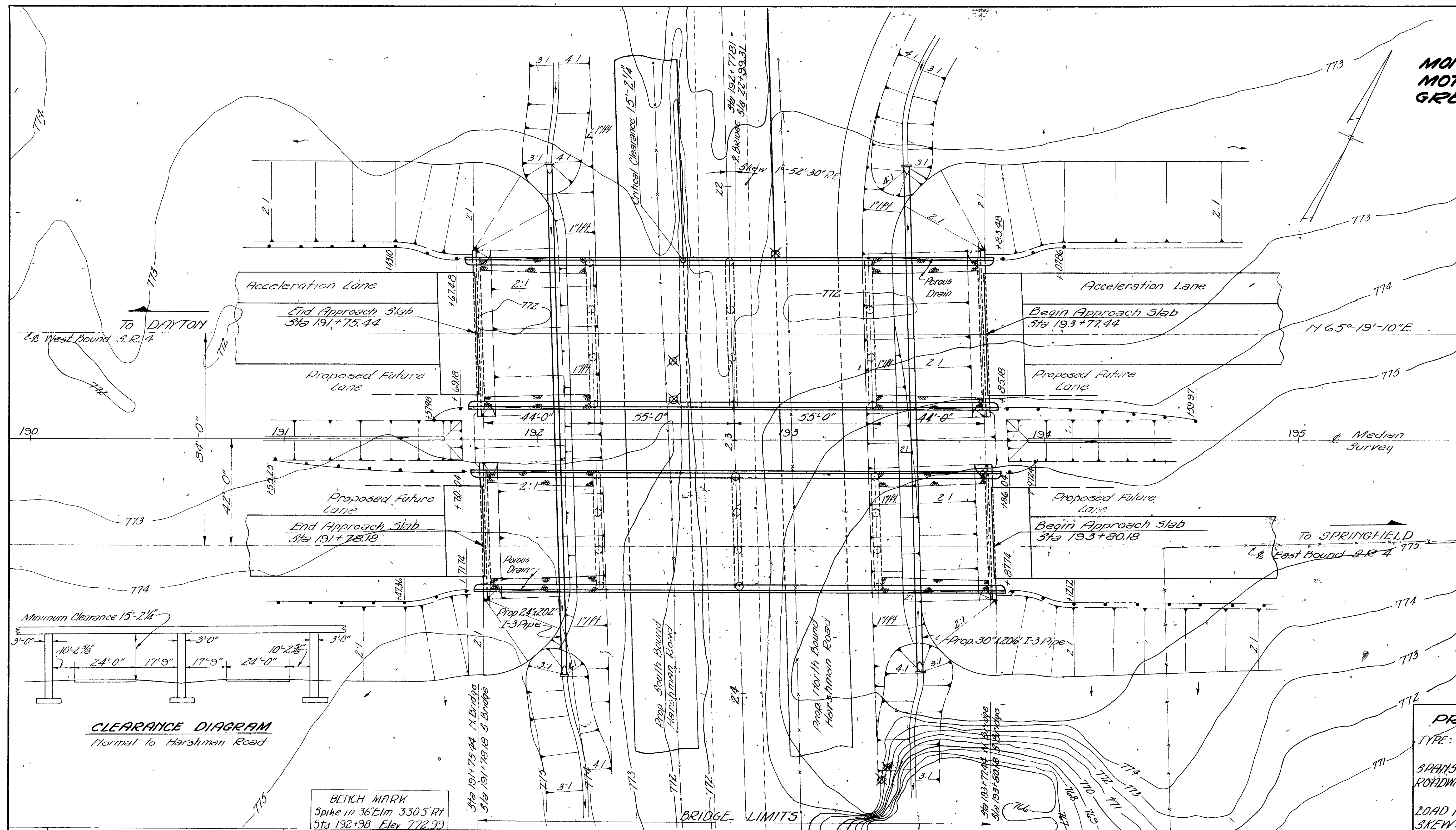
This improvement is especially designed for through traffic and has been declared a limited access highway or freeway between Station 112+65.30 and Station 51+07.33 by action of the Director of Highway in accordance with the provisions of Section 551102 of the revised code of Ohio.

Supplemental Prints of Standard Construction Drawings			
I-8 M.H. NO. 1	5-1-52	I-123A85	2-20-45
I-8 M.H. NO. 1A	1-3-55	I-8CB22A8B	7-2-56
B-T-71R	3-2-53	I-8CB NO. 3A	5-1-52
B-T-50-71EN9HO-147	I-8CB NO. 3	5-1-52	
I-8 M.H. NO. 2	5-1-52	I-12	7-1-54
DR-1	1-2-52		
G-707			

Supplemental Specifications	
S-114	8-30-55
M-109123	Rev. 4-20-56
18	Rev. 9-7-55
S-207	4-28-55
5	6-2-55

MONTGOMERY COUNTY - MOT-4-20.50
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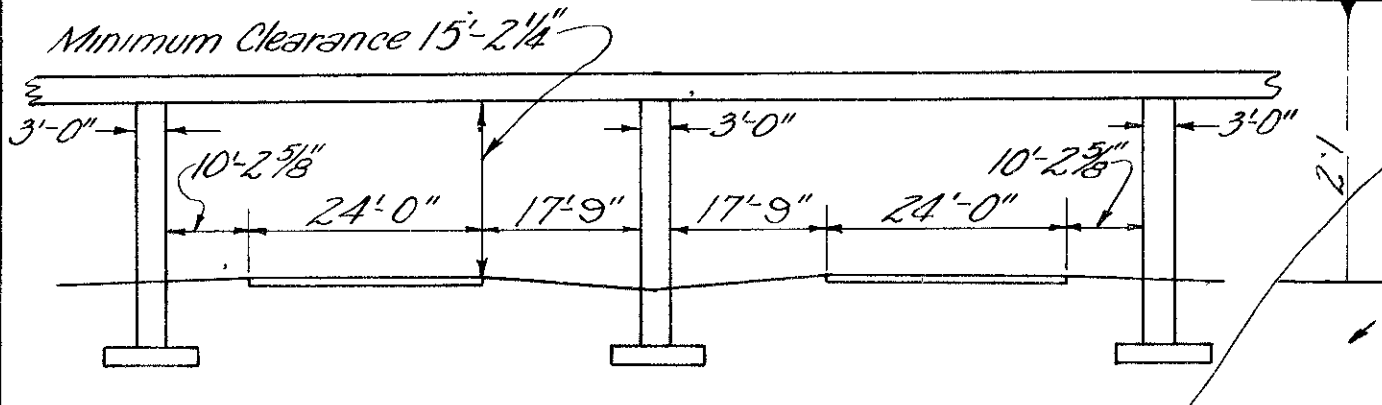
MONTGOMERY-GREENE COUNTY
MOT-4-20.50
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FOUNDATION SOUNDINGS
 Foundation design, and foundation quantities are based on a study made at the site using the "Standard Penetration Test" with 1/2" spoon and 140 pound hammer. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division Office, but the State assumes no responsibility for the accuracy thereof.

PROPOSED BRIDGE DATA
 TYPE: Continuous Concrete Slab with Concrete Substructure - Separate Structures
 SPANS: 44'-0" - 55'-0" - 55'-0" - 44'-0"
 ROADWAY: North Bridge - 54'-0" HP of 2'-0" Safety Curbs
 South Bridge - 42'-0" HP of 2'-0" Safety Curbs
 LOAD FREQUENCY: CF 2000 (51)
 SKEW: 1°-52'-30" R.F.
 WEARING SURFACE: 1" Monolithic Concrete
 APPROACH SLABS: 15'-0" x 15'-0" Long
 RAILING: Half Parapet Wall with Aluminum Rail and Supports
 ALIGNMENT: Tangent

CLEARANCE DIAGRAM
 Normal to Harshman Road



BENCH MARK
 Spike in 36" Elm 3305 RT
 Sta 192+98 Elev 772.99

790.08	790.32	790.54	790.73	790.89	791.03	791.15	791.24	791.31	791.35	791.36	791.35	791.31	791.25	791.17	791.06	790.92	790.76	790.58	790.37
						Bench El 786.65 (South Bridge)		V.P.I. Sta 192+77.81		Bench El 786.65 (South Bridge)		Bench El 786.65 (North Bridge)		Bench El 786.65 (North and South Bridges)					
						El 782.65 (South Bridge)		Elev 799.81		El 786.65 (North Bridge)		El 782.65 (North and South Bridges)							
						El 782.64 (North Bridge)		+2.40%		+2.40%		Slope 2:1		Slope 2:1					
						Existing Profile on S.R. 4		1300' V.G.		Normal		Normal		Porous Drains 1'-0" Thick					
						Porous Drains 1'-0" Thick		Prop 24"x202" I-3 Pipe		Prop 24"x202" I-3 Pipe		Prop 24"x202" I-3 Pipe		Prop 24"x202" I-3 Pipe					
						Elev 767.00		Elev 767.00		Elev 767.00		Elev 767.00		Elev 767.00					
						772.81		772.85		772.90		772.95		772.97		774.60		775.28	
						191		192		193		194		195					

ELMER S. BARRETT ASSOCIATES
 CONSULTING ENGINEERS
 249 S. PAINT ST. CHILLICOTHE, OHIO

SITE PLAN
 BRIDGE NO. MOT-4-2200
 S.R. 4 OVER HARSHMAN ROAD
 MONTGOMERY-GREENE COUNTY S.R. 4
 SEC. MOT-4-20.50 STA. 192+77.81
 SEC. GRE-4-000

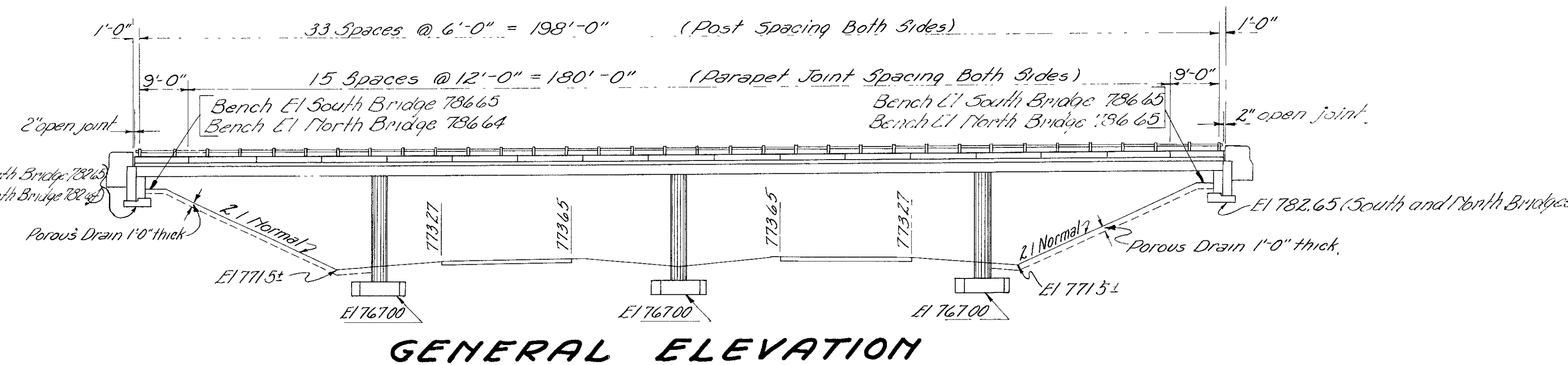
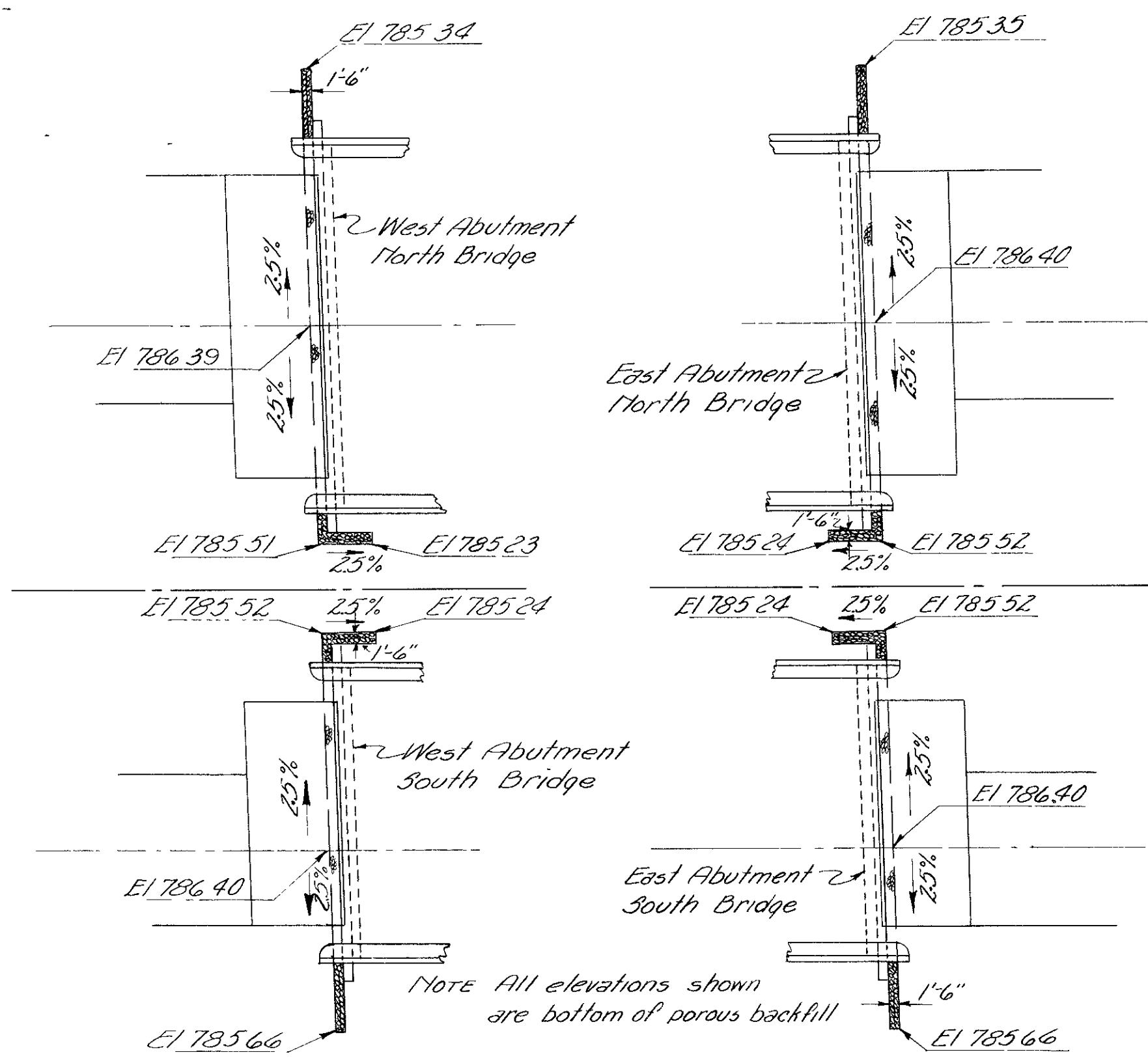
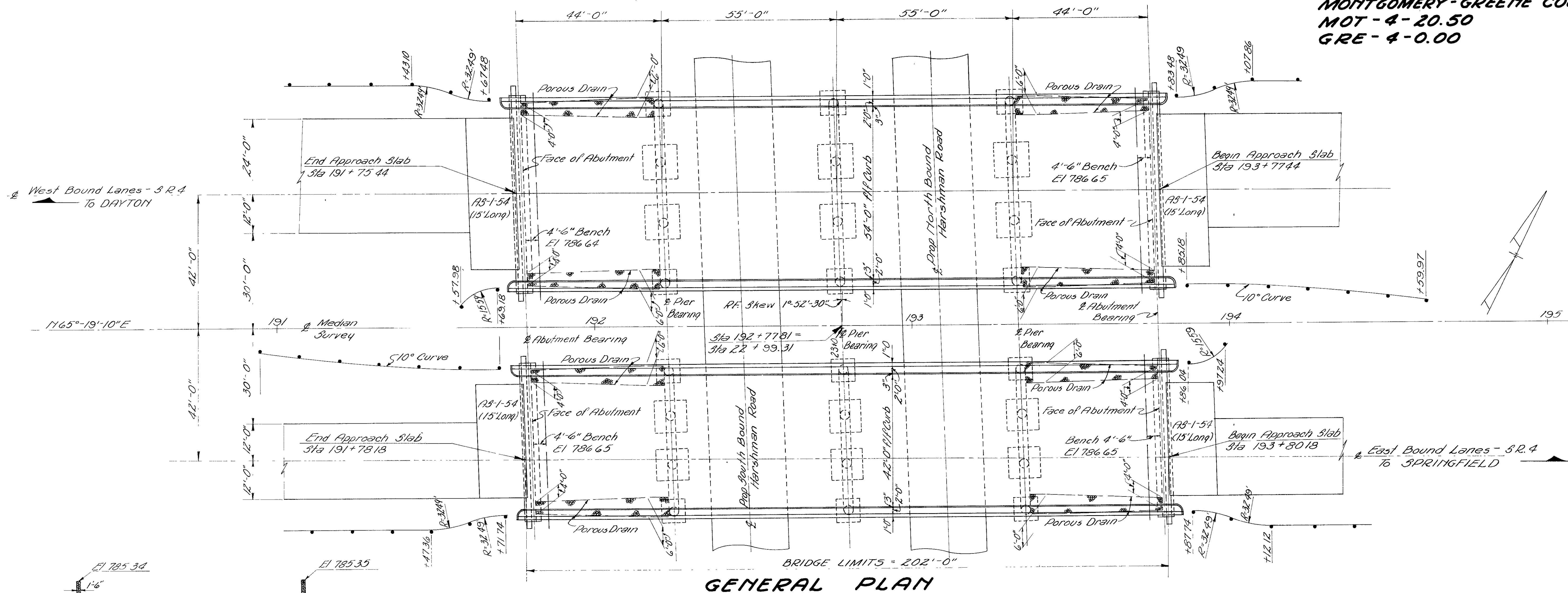
SCALE: _____ DATE: _____

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
JWH	W.D.J.	W.D.J.	W.D.J.	W.C.	11/10/56	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

299
385

MONTGOMERY-GREENE COUNTY
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ELMER S. BARRETT ASSOCIATES CONSULTING ENGINEERS 249 S. PAINT ST. CHILLICOTHE, OHIO						
GENERAL PLAN & ELEVATION						
BRIDGE NO. MOT-4-2200						
S.R.4 OVER HARSHMAN ROAD						
MONTGOMERY-GREENE COUNTY S.R.4						
SEC. MOT-4-20.50 STA. 192+77.81						
SEC. GRE-4-0.00						
SCALE	DATE					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EER	PJM	WDS	FHS	MC	11/10/56	

MONTGOMERY-GREENE COUNTY
MOT-4-20.50
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GENERAL NOTES

REFERENCE: shall be made to Supplemental Specifications S-114, Aluminum for Railing, dated August 30, 1955.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated October 1, 1951, together with revisions thereof dated July 15, 1952, April 1, 1954 and February 1, 1955.

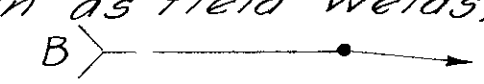
PAINT, both shop and field, shall be applied by brushing. Spray application will not be permitted.

CONCRETE AGGREGATE: Gravel if used as course aggregate shall be according to Sec M-3.93 instead of Sec M-3.91 for Class "C" concrete in the superstructure. Gravel meeting the requirements of Sec M-3.93 may also be used for other concrete in this structure.

SURFACE FINISH OF CONCRETE: Abutment railing posts, curb faces, parapet walls, deck fascia and exposed surfaces of piers, abutments and wing walls shall receive a rubbed surface finish. All other surfaces shall be finished in accordance with the provisions of Item 5-1.

POROUS BACKFILL: shall extend upward to the approach slab and to the surface of the earth shoulders and outward to the surface of the embankment slopes. Excavation therefor in excess of that required for construction of the footing shall be considered as paid for in the bid price per cubic yard, paid for porous backfill.

EXCAVATION: Earthwork required to construct the roadway under the bridge to finished grade is classified as E-1 and included in roadway quantities. EXCAVATION QUANTITY FOR ABUTMENTS includes the removal of fill material between the top of the earth bench and the bottom of the abutment. EXCAVATION QUANTITY FOR PIERS includes the removal of material from the top of finished grade or the existing ground line, which ever is lower, to the bottom of the footer.

WELDING: of structural steel shall be class "A" except as otherwise shown. Any welds shown as field welds, may at the option of the Contractor, be made in the shop. Class "B" welds are shown thus 

BAR SIZE: is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four digits are used, indicates the bar size number. For example A 501 is a No 5 bar and A 1001 is a No 10 bar.

TRAFFIC: The Contractor shall provide platforms, nets or other suitable devices above the traveled lanes to protect the traveling public. Cost of this protection is included in the lump sum bid for maintaining traffic.

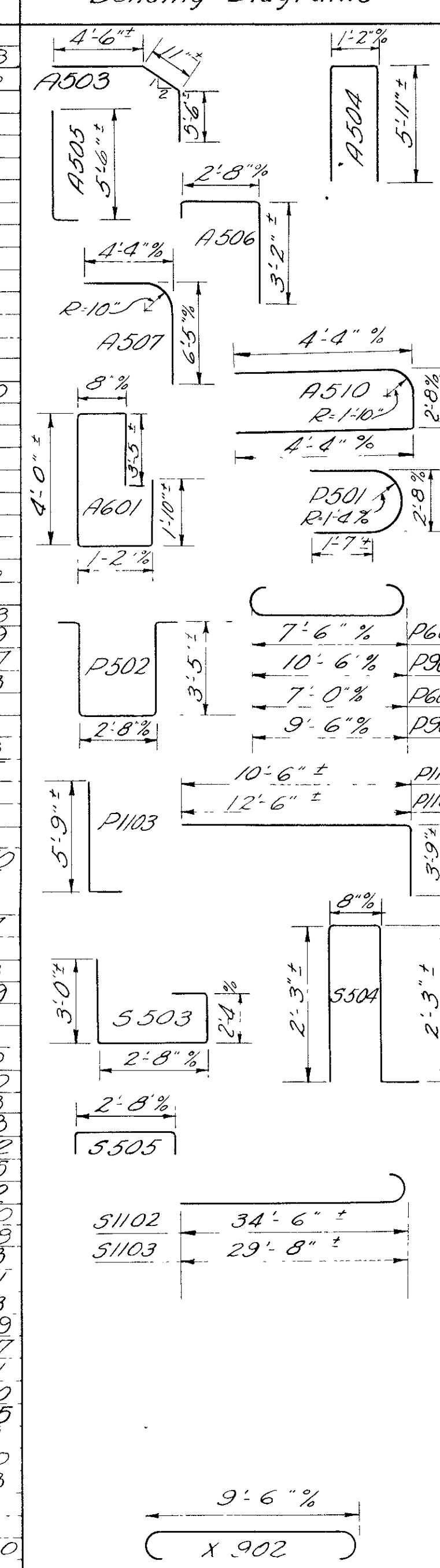
SPIRAL REINFORCING BARS

The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap.
The "Number of Turns" shown in the steel list for the spiral bars is the "Length" divided by the pitch, plus 3 turns (total number of closed coils) expressed as the nearest whole number.
Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 5-4.
1/2 closed coils shall be provided at the ends of each spiral unit.
Four steel channel, tee or angle spacers, weighing approximately 0.68 lb per lin ft of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 lb per lin ft, will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

Bar Number	Number Required	Core Dia % Spiral	Length	Pitch	Number of Turns	Weight
P401	8	32	16'-10 3/4"	4 1/2"	48	2,484
P402	16	32	16'-9 1/2"	4 1/2"	48	4,966
TOTAL SIX PIERS						7,450

ESTIMATED QUANTITIES (TWO BRIDGES)

ITEM	QUANTITY	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPER	GENERAL	AS BUILT
E-2	918	Cu Yds	Unclassified Excavation	239	679			
5-1	1834	Cu Yds	Class C Concrete for Superstructure including End Posts & Pier Caps		88	1746		
5-1	106	Cu Yds	Class "C" Concrete for Pier Columns		106			
5-1	141	Cu Yds	Class "E" Concrete for Abutments	141				
5-1	265	Cu Yds	Class "E" Concrete for Abutment and Pier Footings	75	190			
5-4	524,967	Pounds	Reinforcing Steel	10,520	116,890	396,660	897	
5-7	16,210	Pounds	Structural Steel Expansion Joints			16,210		
5-8	16,210	Pounds	Field Painting of Structural Steel			16,210		
5-9	244	Sq Ft	1/2" Asbestos coated with graphite	244				
5-14	798.67	Lin Ft	Railing (Aluminum rail and supports and Concrete Parapet)			798.67		
5-29	156	Lin Ft	4" Diameter Cast Iron or Wrought Iron Pipe			156		
5-29	65	Cu Yds	Porous Drains on Embankment Slopes				65	
5-29	47	Cu Yds	Porous Backfill	47				

Bar No	Total No Required	No Required In Bridge	Length	Shape	Weight	Bending Diagrams	
ABUTMENTS							
A501	60	60	30'-4"	Str	1,898		
A502	64	32	5'-4"	Str	356		
A503	16	8	13'-10"	Bent	181		
A504	16	8	12'-9"	Bent	213		
A505	144	80	6'-3"	Bent	90		
A506	144	64	6'-3"	Bent	939		
A507	16	8	10'-5"	Bent	174		
A508	68	24	4'-5"	Str	321		
A509	32	16	4'-4"	Str	125		
A510	32	16	10'-5"	Bent	349		
A511	32	16	3'-5"	Str	114		
A512	60	60	24'-4"	Str	1,323		
TOTAL FOUR ABUTMENTS							10,520
PIERS							
P501	24	12	7'-4"	Bent	134		
P502	279	142	10'-3"	Bent	2,953		
P601	132	132	8'-10"	Bent	1,751		
P602	108	108	8'-4"	Bent	1,352		
P901	132	132	13'-0"	Bent	7,956		
P902	132	132	12'-0"	Bent	3,386		
P1101	160	80	20'-10"	Str	17,710		
P1102	320	160	20'-9"	Str	35,278		
P1103	480	240	20'-9"	Bent	17,639		
P1104	30	30	15'-11"	Bent	2,537		
P1105	18	18	46'-3"	Str	4,423		
P1106	18	18	16'-3"	Str	1,570		
P1107	12	12	31'-3"	Str	1,992		
P1108	30	30	13'-11"	Bent	2,218		
P1109	18	18	36'-8"	Str	3,475		
P1110	18	18	14'-4"	Str	1,371		
P1111	12	12	25'-4"	Str	1,610		
TOTAL SIX PIERS						109,240	
SUPERSTRUCTURE							
S501	32	16	31'-1"	Str	1,037		
S502	32	16	27'-11"	Str	932		
S503	892	446	8'-6"	Bent	7,908		
S504	892	446	3'-5"	Bent	5,039		
S505	892	446	3'-8"	Bent	3,411		
S506	32	16	9'-6"	Str	317		
S507	240	120	11'-8"	Str	2,980		
S601	134	74	28'-11"	Str	3,820		
S602	134	74	28'-9"	Str	3,763		
S603	106	106	60'-0"	Str	9,558		
S604	106	106	48'-0"	Str	7,642		
S701	195	195	60'-0"	Str	23,915		
S702	195	195	48'-0"	Str	19,132		
S1101	412	228	52'-6"	Str	114,920		
S1102	94	52	35'-11"	Bent	12,939		
S1103	94	52	31'-1"	Bent	15,193		
S1104	94	52	32'-6"	Str	16,231		
S1105	92	52	24'-2"	Str	11,813		
S1106	396	219	35'-2"	Str	73,989		
S1107	195	108	16'-0"	Str	16,577		
S1108	198	108	10'-8"	Str	11,221		
S1109	84	42	30'-3"	Str	13,500		
S1110	12	12	60'-0"	Str	3,825		
S1111	15	15	41'-8"	Str	3,321		
S1112	12	12	48'-0"	Str	3,060		
S1113	15	15	33'-8"	Str	2,683		
TOTAL TWO SUPERSTRUCTURES						396,660	
REPLACEMENT STEEL							
X401	7		3'-3"	Spiral	4		
X501	2		5'-7"	Str	12		
X601	2		5'-11"	Str	18		
X701	2		6'-2"	Str	25		
X902	1		12'-0"	Bent	41		
X1101	20		7'-6"	Str	197		
TOTAL REPLACEMENT STEEL						897	
TOTAL SPIRAL STEEL						7,450	
TOTAL REINFORCING STEEL						524,967	

ELMER S. BARRETT ASSOCIATES
CONSULTING ENGINEERS
249 S PAINT ST CHILLICOTHE, OHIO

GENERAL NOTES, ESTIMATED QUANTITIES & REINFORCING STEEL
FOR BRIDGE NO. MOT-4-2200
S.R. 4 OVER HARSHMAN ROAD
MONTGOMERY-GREENE COUNTY S.R. 4
SEC. MOT-4-20.50 STA 192+77.81
SEC. GRE-4-0.00

SCALE: _____ DATE: _____

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ELR	DJM	DJM	ELR	Wk	11/10/56	

FED RD DIVISION	STATE	PROJECT	
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MONTGOMERY-GREENE COUNTY

MOT-4-20.50

GRE-4-0.00

NOTES

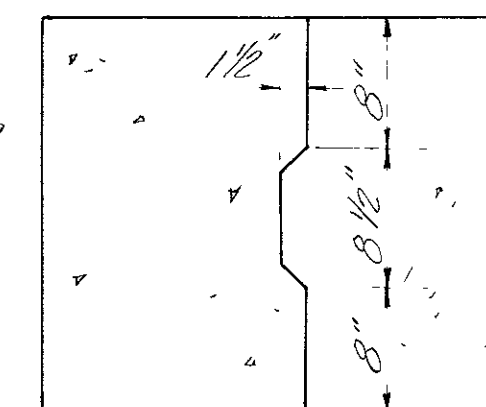
CURBS shall be placed after the shoring under the slab has been released sufficiently to permit the slab spans to obtain full dead load deflection.

CONSTRUCTION JOINTS Optional construction joints may be placed on the transverse centerline of the 55'-0" spans ± 1'-0" off the transverse centerline if necessary to miss transverse reinforcing bars. One longitudinal construction joint will be required on the centerline of roadway. A horizontal construction joint will be placed between each curb and the top of the slab.

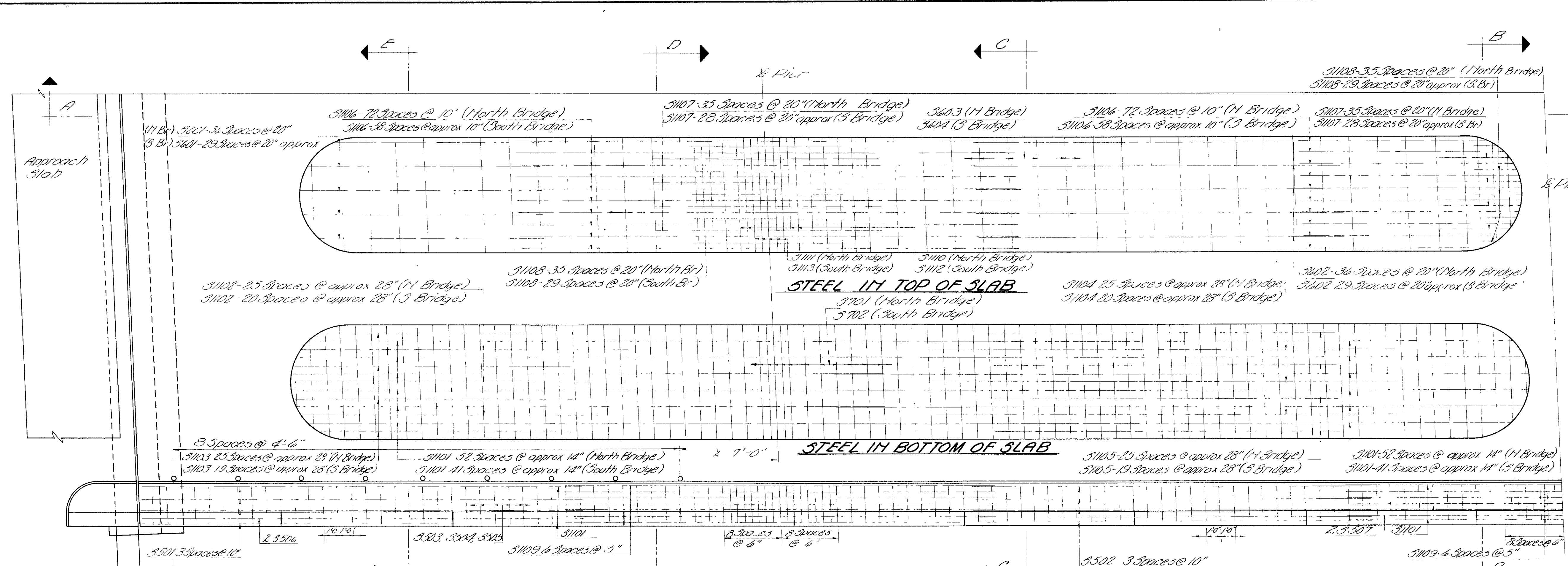
CONCRETE shall be Class "C".

REINFORCING STEEL 3603, 3604, 3701, 3702, 3110, 3112 and 3115 bars may be furnished in one length as shown or in pairs of equal length, lapped thirty diameters at the centerline of roadway, or they may be furnished in pairs of different length in order to place the lap beyond a longitudinal construction joint at the centerline of the roadway, at the option of the contractor. Determination of the pay quantity will be according to the number and length of bars shown here on.

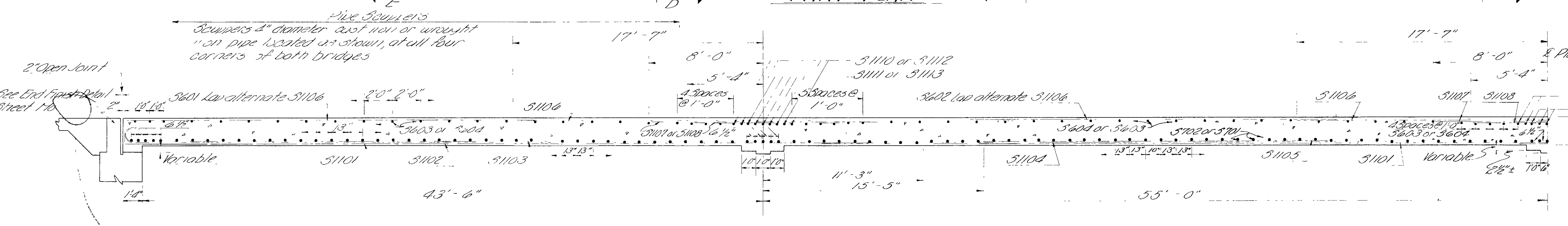
CAMBER of top of the span shall be provided in each span in addition to any required in conformance with the profile of the highway to allow for dead load deflection. This is the amount of camber required before falsework is released to obtain this proper allowance shall be made for the deflection of the falsework members.



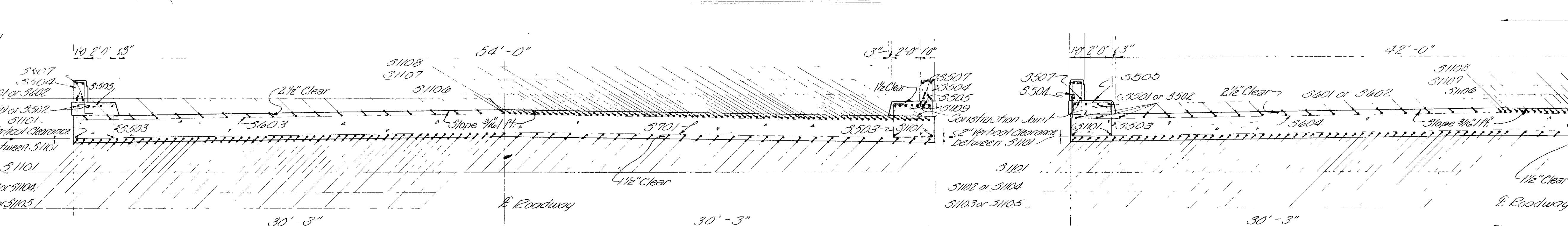
CONSTRUCTION JOINT DETAIL



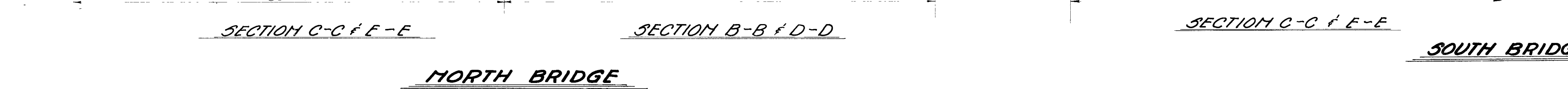
PART PLAN



SECTION A-A



SECTION B-B & D-D



SECTION C-C & E-E

SECTION B-B & D-D

SECTION C-C & E-E

SOUTH BRIDGE

NORTH BRIDGE

ELMER S. BARRETT ASSOCIATES
CONSULTING ENGINEERS
249 S. PAINT ST. CHILLICOTHE, OHIO

SUPERSTRUCTURE DETAILS

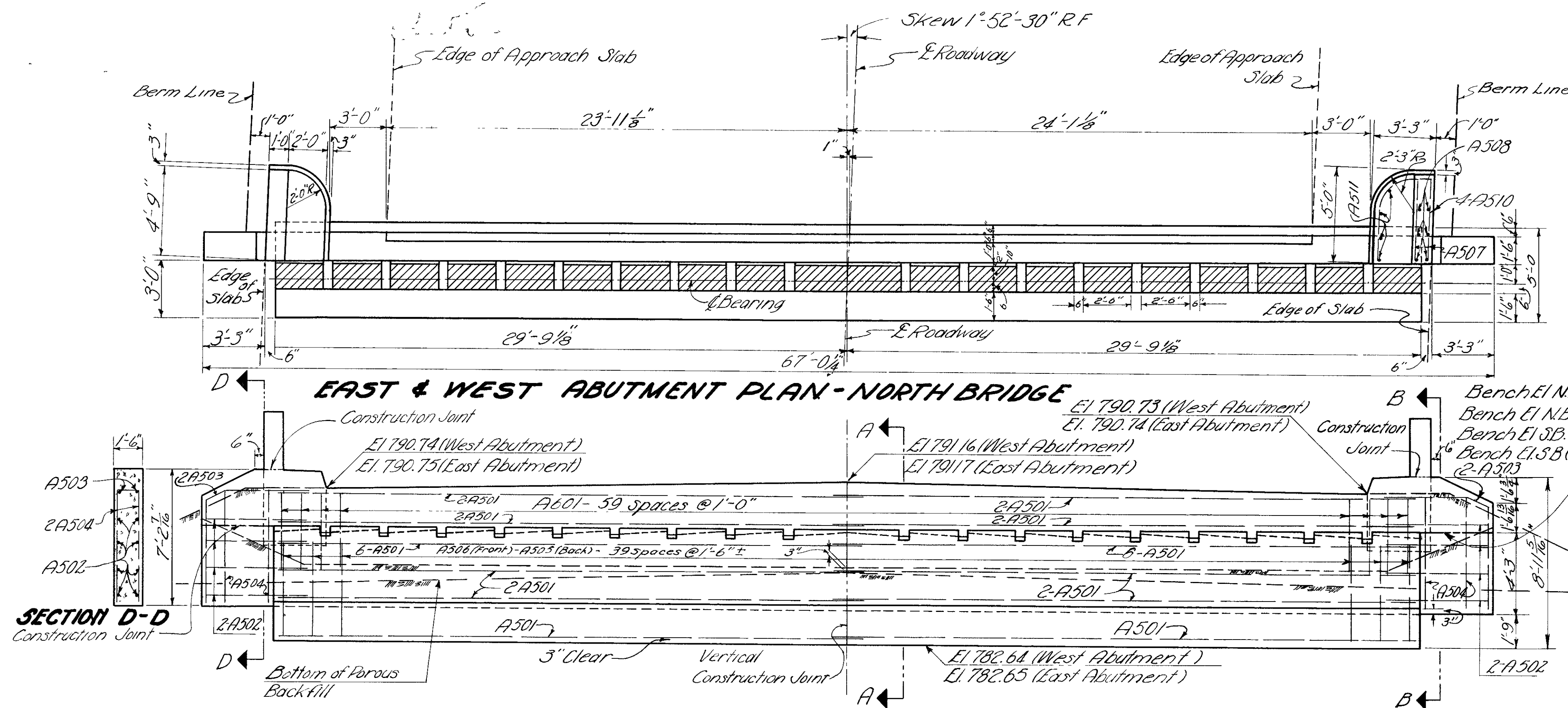
BRIDGE NO. MOT-4-2200
S.R.4 OVER HARSHMAN ROAD

MONTGOMERY-GREENE COUNTY S.R.4
SEC. MOT-4-20.50 STA. 192 + 77.81
SEC. GRE-4-0.00

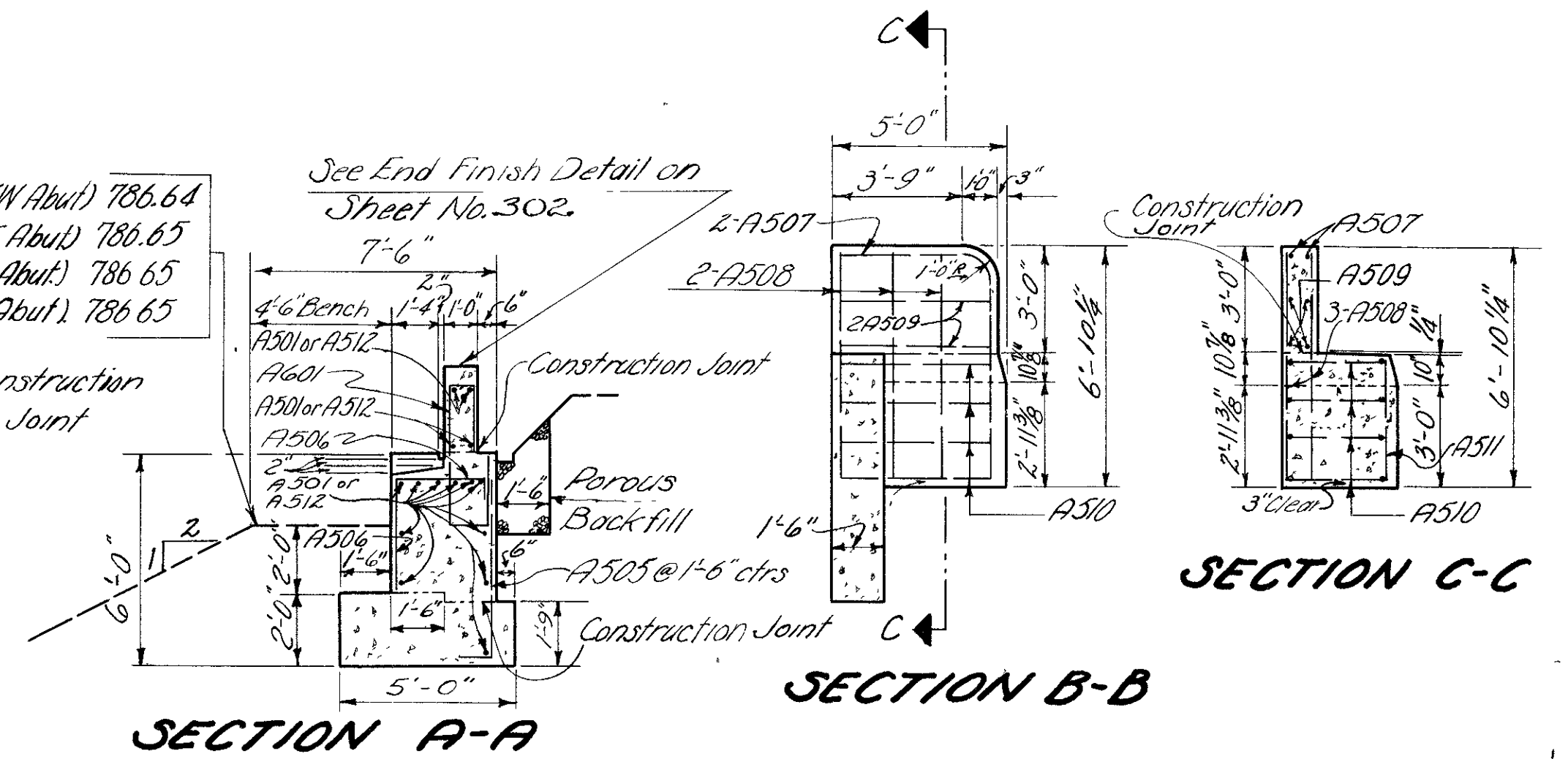
SCALE: _____ DATE: _____

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EER	EER PJM	JCE	KLD	WK	11/10/56	1

MONTGOMERY-GREENE COUNTY
MOT-4-20.50
GRE-4-0.00



EAST & WEST ABUTMENT PLAN - NORTH BRIDGE



SECTION A-A

SECTION B-B

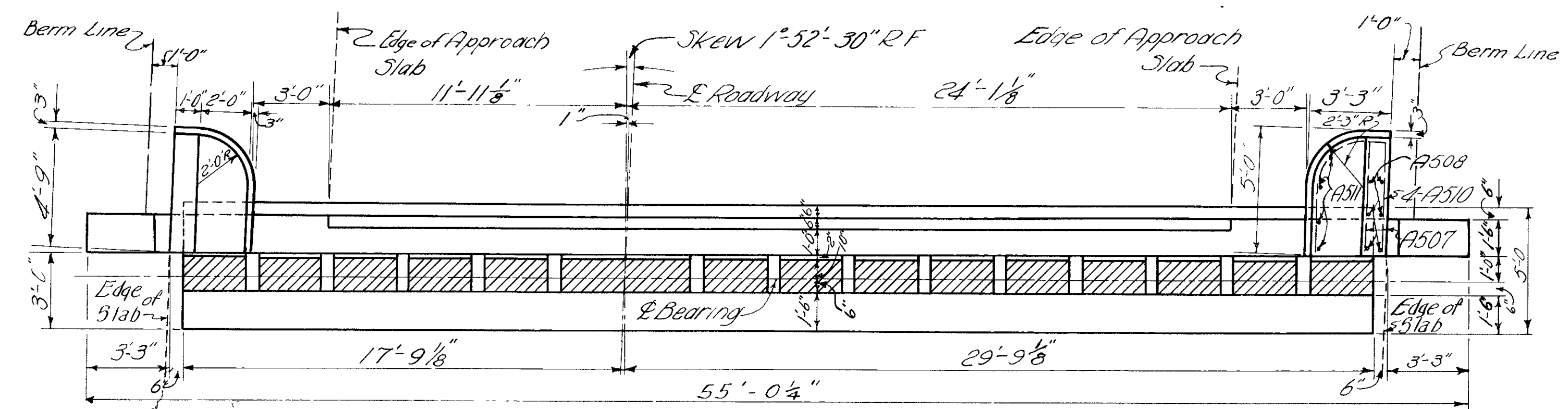
SECTION C-C

EAST & WEST ABUTMENT ELEVATION - NORTH BRIDGE

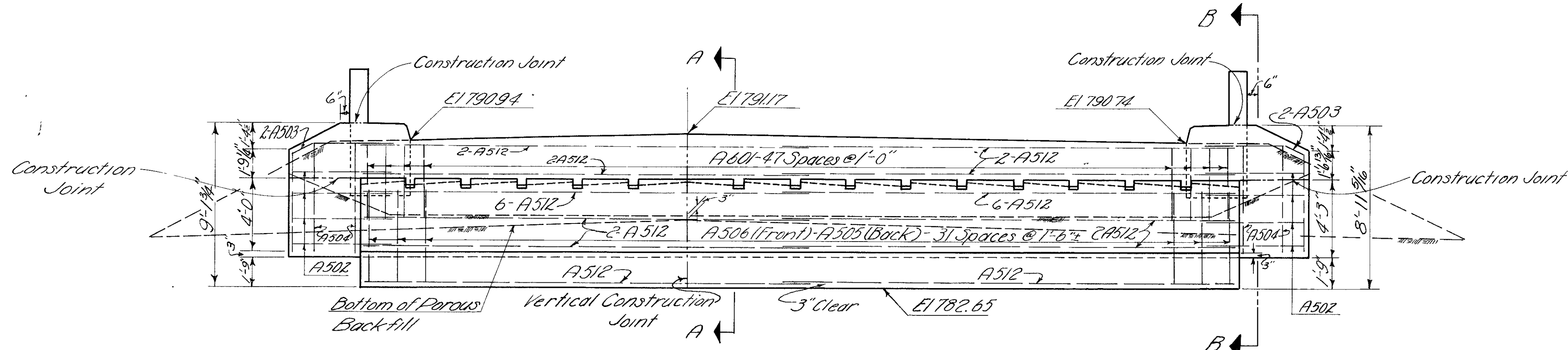
NOTES

REINFORCING STEEL shall be two (2) inches clear except where otherwise shown.
 CONCRETE shall be class "E".
 CONCRETE for end posts above curb height is included in superstructure quantities for payment.
 PROCEDURE: The embankment shall be placed and compacted to the height of the earth bench, after which excavation shall be made for the abutment.

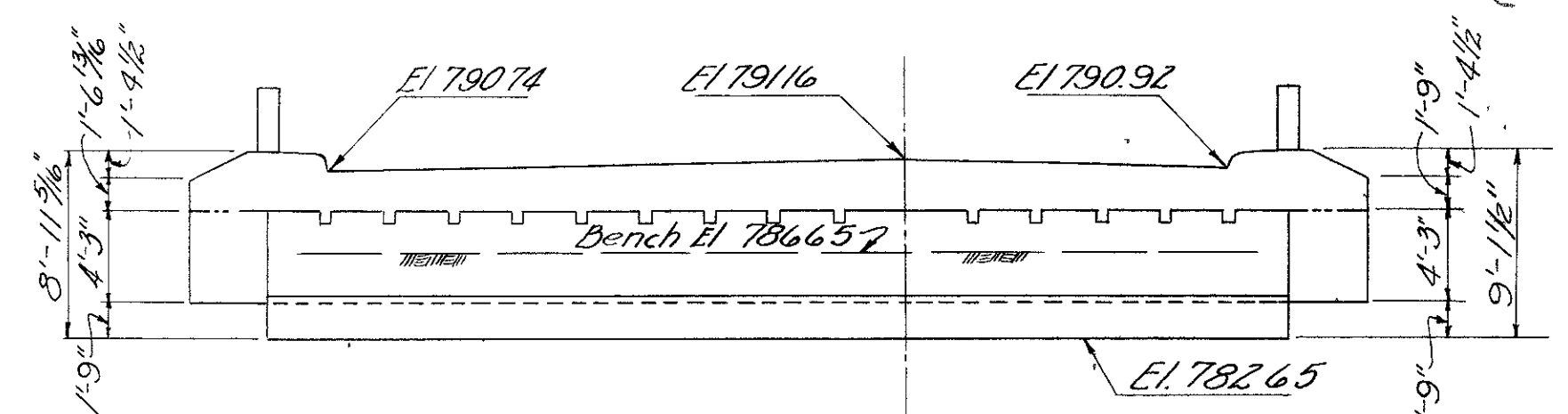
GROSS HATCHED AREAS in plan views shall be finished with a steel trowel, and particular care shall be taken to provide plane surfaces for bearing areas. Provide two layers of 1/8" sheet asbestos on bearing areas.



WEST ABUTMENT PLAN - SOUTH BRIDGE



WEST ABUTMENT ELEVATION - SOUTH BRIDGE



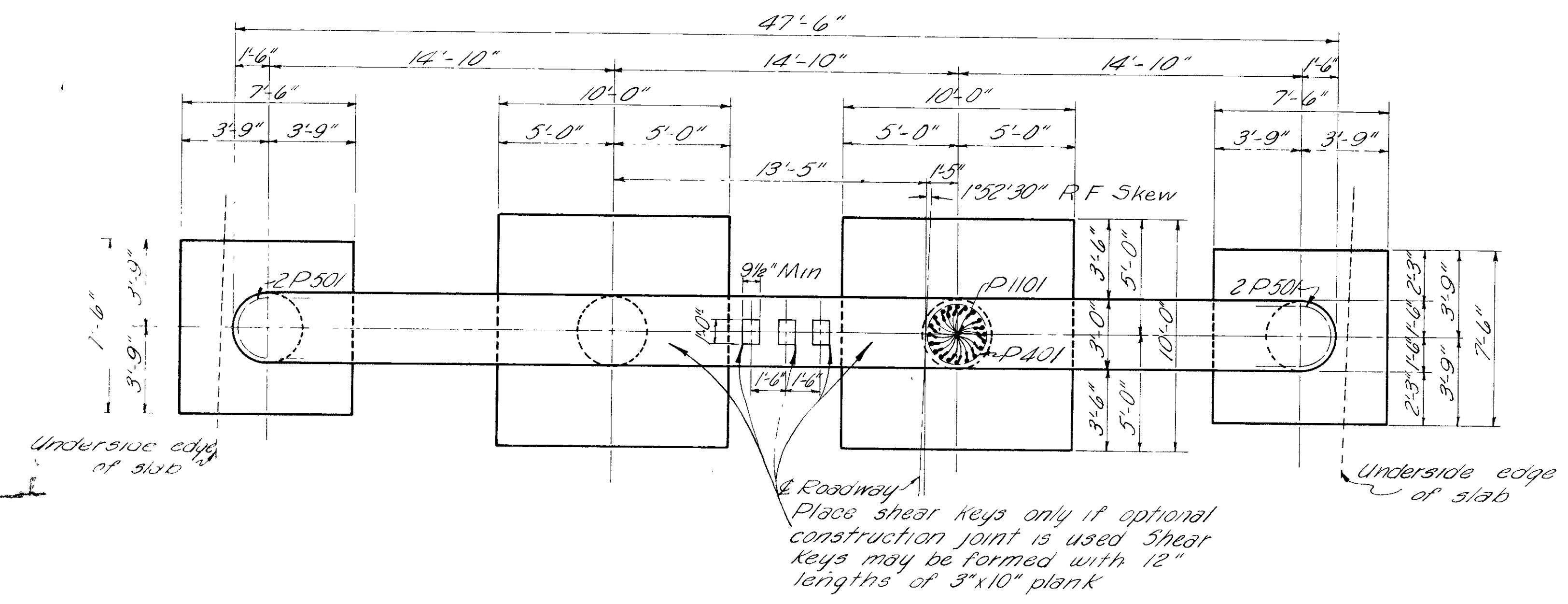
EAST ABUTMENT ELEVATION - SOUTH BRIDGE

Note Details not shown are similar to West Abutment South Bridge

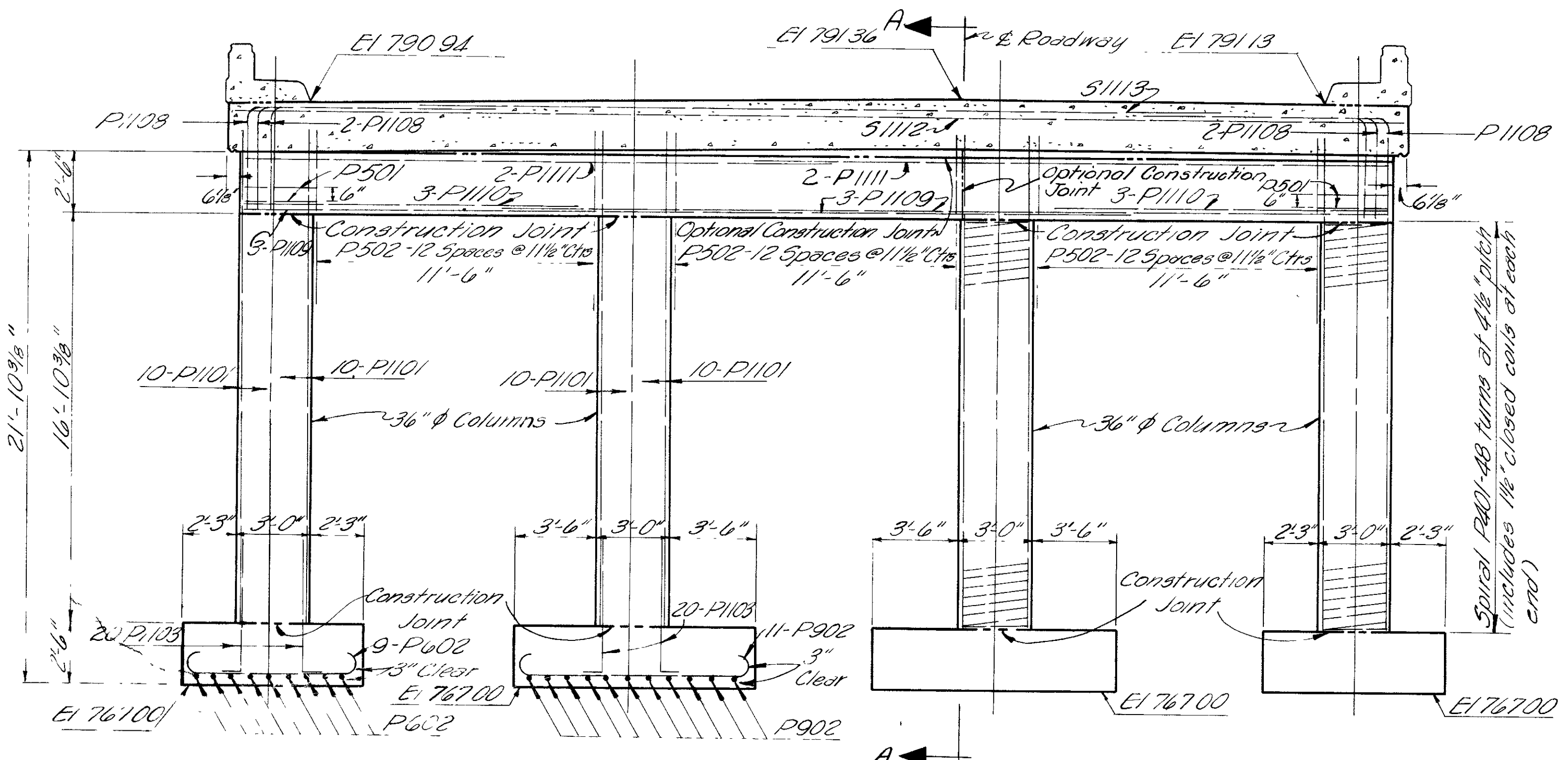
ELMER S. BARRETT ASSOCIATES CONSULTING ENGINEERS 249 S. PAINT ST. CHILLICOTHE, OHIO						
ABUTMENT DETAILS						
BRIDGE NO. MOT-4-2200						
S.R. 4 OVER HARSHMAN ROAD						
MONTGOMERY-GREENE COUNTY					S.R. 4	
SEC. MOT-4-20.50					STA. 192+7.781	
SEC. GRE-4-0.00						
SCALE _____ DATE _____						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
EER	RJM	JKM	PLP	TK	1/19/54	

MONTGOMERY-GREENE COUNTY
MOT-4-20.50
GRE-4-0.00

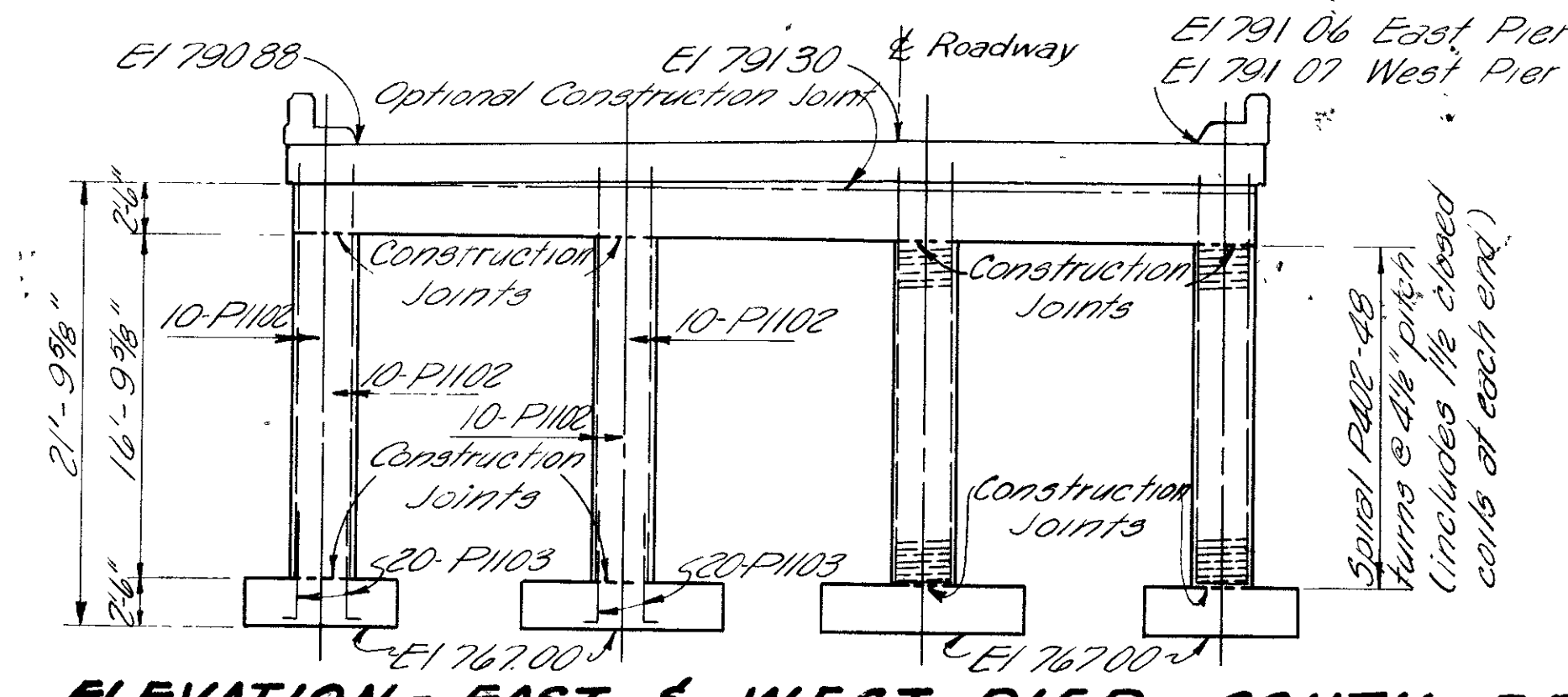
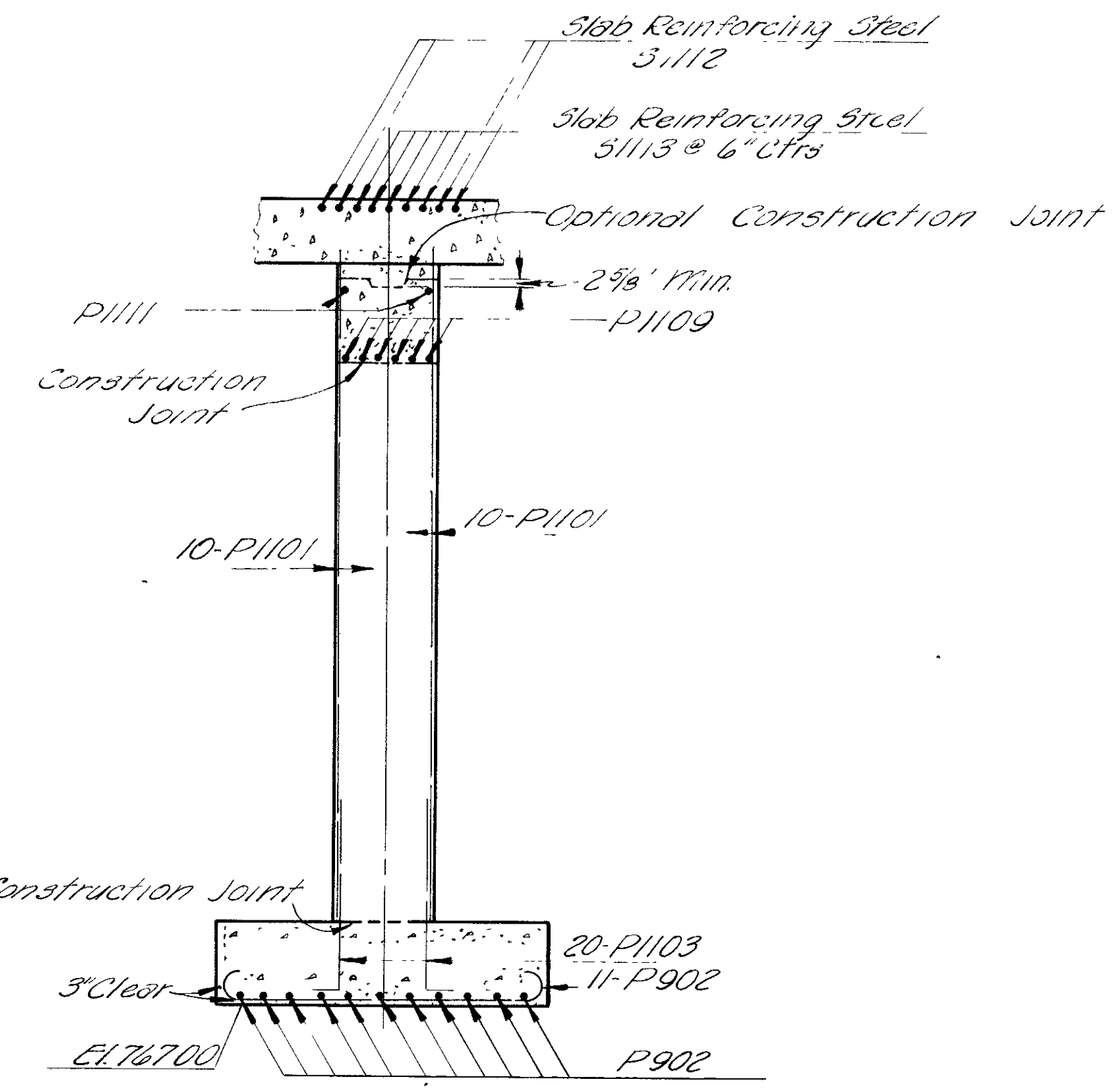
117-2110



CENTER PIER PLAN - SOUTH BRIDGE



ELEVATION - CENTER PIER - SOUTH BRIDGE SECTION A-A



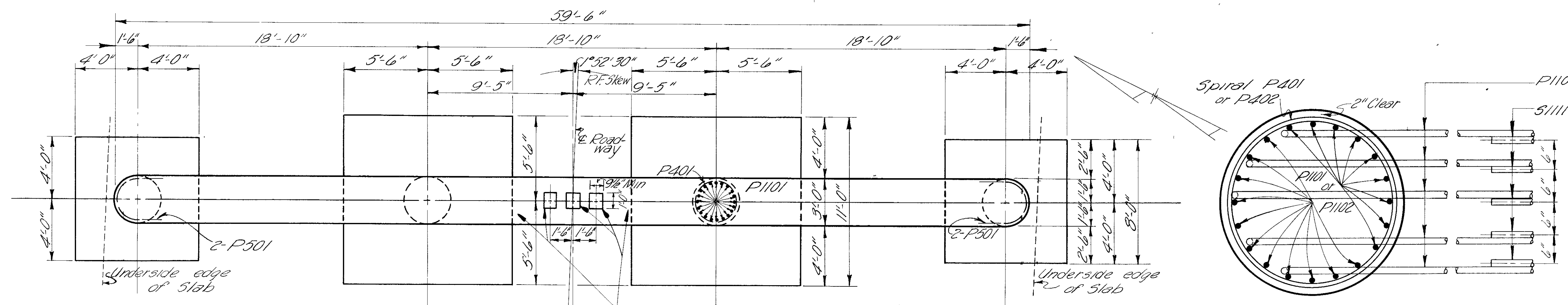
ELEVATION - EAST & WEST PIER - SOUTH BRIDGE

NOTE:
 All dimensions and reinforcing steel not shown on East & West Pier Elevations are identical to Center Pier.

- NOTES-**
- REINFORCING STEEL** shall be two (2) inches clear except where otherwise shown
 - CONCRETE** shall be Class "C" in caps and columns and Class "E" in footings
 - THE CAP BEAM** shall not be used to support $\frac{1}{8}$ sewer for the deck slab
 - FOR PLACEMENT** of cap and column steel, see detail for North Bridge.

ELMER S. BARRETT ASSOCIATES CONSULTING ENGINEERS 249 S. PAINT ST. CHILLICOTHE, OHIO	
PIER DETAILS	
BRIDGE NO. MOT-4-2200 S.R. 4 OVER HARSHMAN ROAD	
MONTGOMERY-GREENE COUNTY	S.R. 4
SEC. MOT-4-20.50	STA. 192+77.81
SEC. GRE-4-0.00	
SCALE	DATE
DESIGNED	DRAWN
TRACED	CHECKED
REVIEWED	DATE
REVISION	REVISION

MONTGOMERY-GREENE COUNTY
MOT-4-20.50
GRE-4-0.00



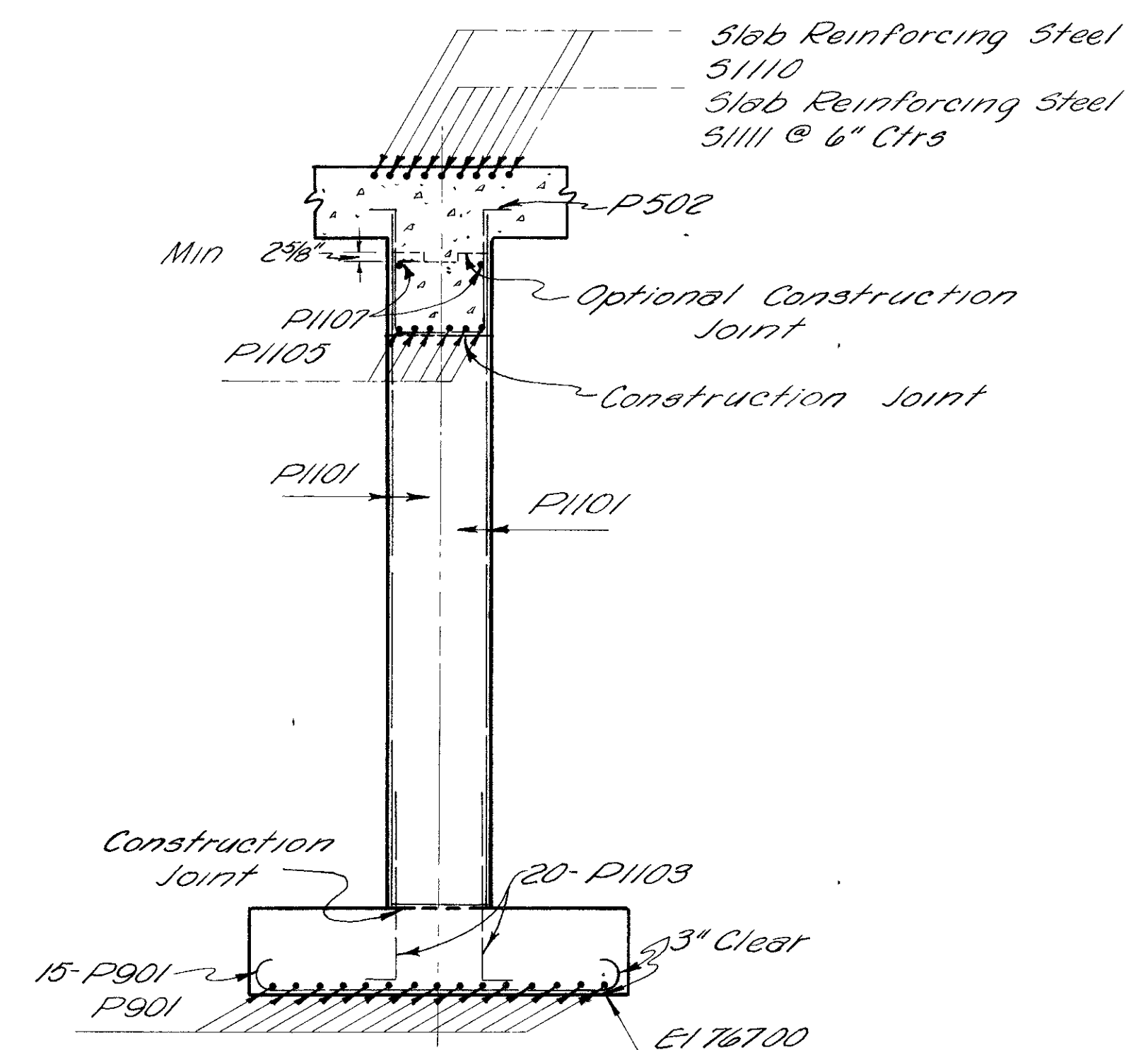
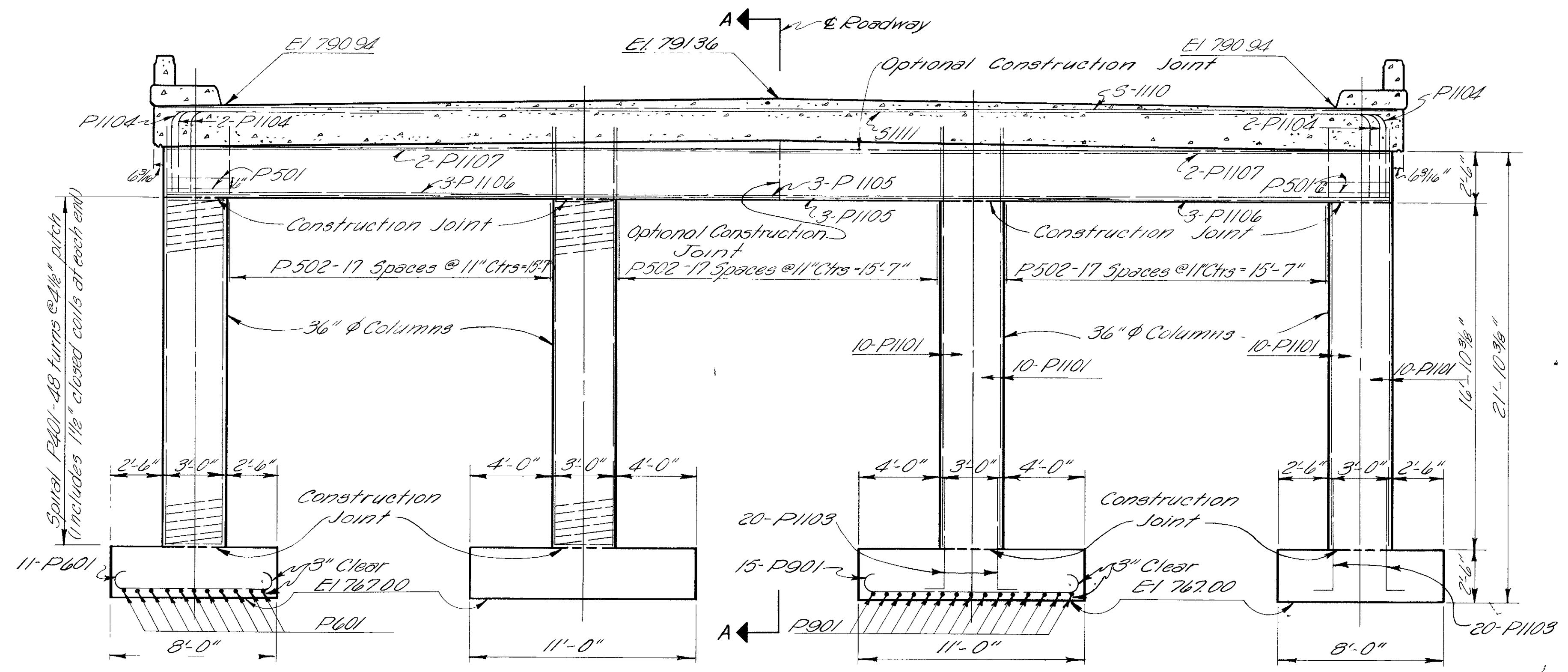
Place shear keys only if optional construction joint is used. Shear keys may be formed with 12" lengths of 3" x 10" plank.

PLACEMENT OF CAP AND COLUMN STEEL

-NOTES-

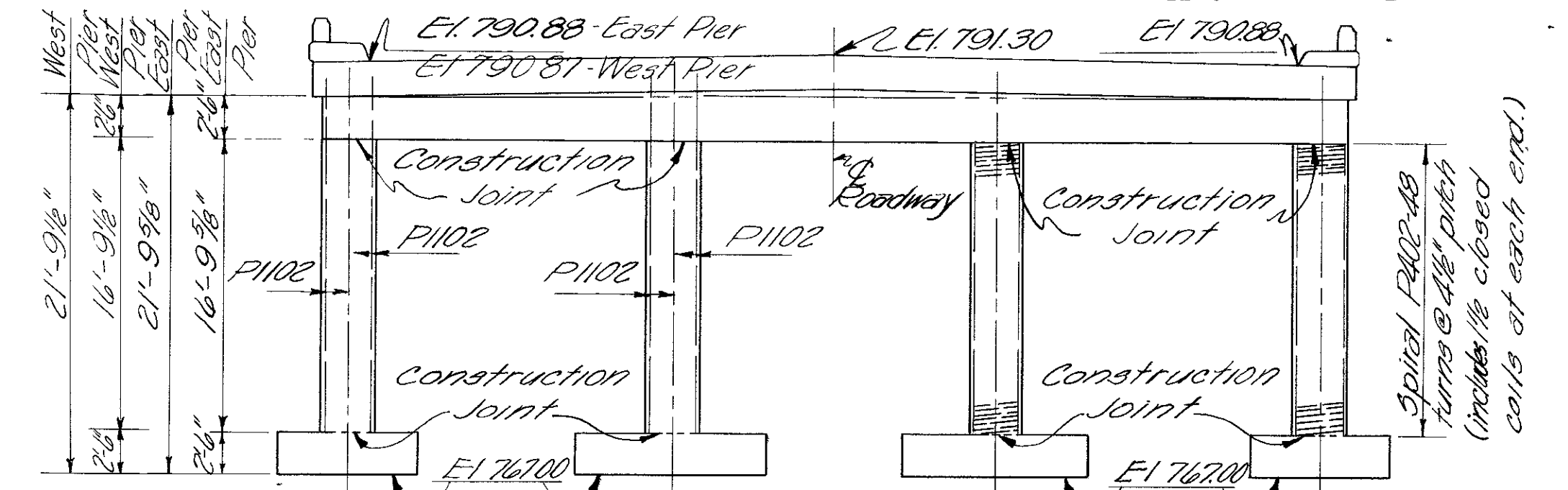
See Pier Details for South Bridge

CENTER PIER PLAN NORTH BRIDGE



SECTION A-A

ELEVATION-CENTER PIER-NORTH BRIDGE



ELEVATION-WEST & EAST PIER-NORTH BRIDGE

NOTE:
 All dimensions and reinforcing steel not shown on West & East Pier Elevations are identical to Center Pier

ELMER S. BARRETT ASSOCIATES CONSULTING ENGINEERS 249 S. PAINT ST. CHILLICOTHE, OHIO					
PIER DETAILS					
BRIDGE NO. MOT-4-2200 S.R. 4 OVER HARSHMAN ROAD					
MONTGOMERY-GREENE COUNTY				S.R. 4	
SEC. MOT-4-20.50				STA. 192 + 77.81	
SEC. GRE-4-0.00					
SCALE		DATE			
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
E.E.R.	MEW	EDK	PHS	WKE	11/16/56