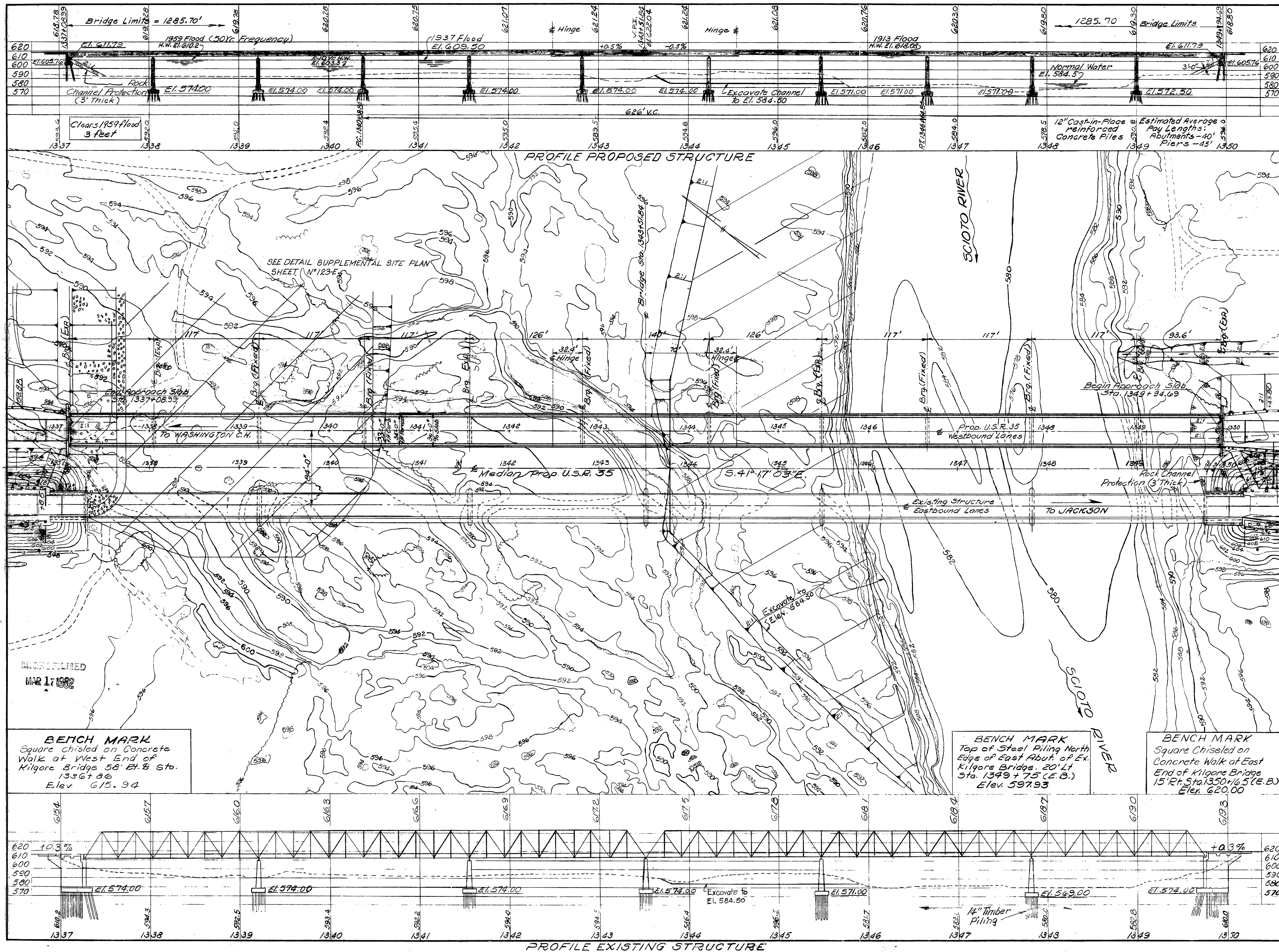




FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		



ROSS COUNTY
ROS-35-25.05

EXISTING BRIDGE DATA
 Bridge No: R05-35-253
 Type: Continuous Steel Truss Bridge with
 Concrete Floor and Substructure
 Spans: 2 Units @ 195' - 234' - 195' % Bearings.
 1250' % End Piers
 Roadway: 24' plus 1-4'-6" sidewalk on Right
 Loading: H-15-33
 Skew: None
 Wearing Surface: 3/4" Monolithic Concrete
 Approach Slab: 25' Long
 Condition: Good
 Disposition: To remain in place

PROPOSED BRIDGE DATA
TYPE: Welded Hinged Girder with
Concrete Deck and Substructure.
SPAN: 93.6'-3 1/7"-126'-140'-126'-3 1/7"-93.6'.
ROADWAY: 33'-0" flt of 6' Curbs
SKEW: 0°00'
LOAD FREQUENCY: CF-2000 (57)
WEARING SURFACE: 1" Mortarless Concrete
APPROACH SLABS: AS-1-67 [25' Long]
RAILING: Aluminum Rail and Supports
with Concrete Parapet.
ALIGNMENT: Tangent.

DRAINAGE AREA
3,859 square Miles

$$Q_{50} = 142,000 \text{ c.f.s.}$$

1976 Equivalent Passenger
Vehicles = 9380 Vehicles per day.

ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

SITE PLAN
BRIDGE No. R05-35-2532L
U.S.R. 35 over SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA. 1337+08.99 To STA. 1349+94.69

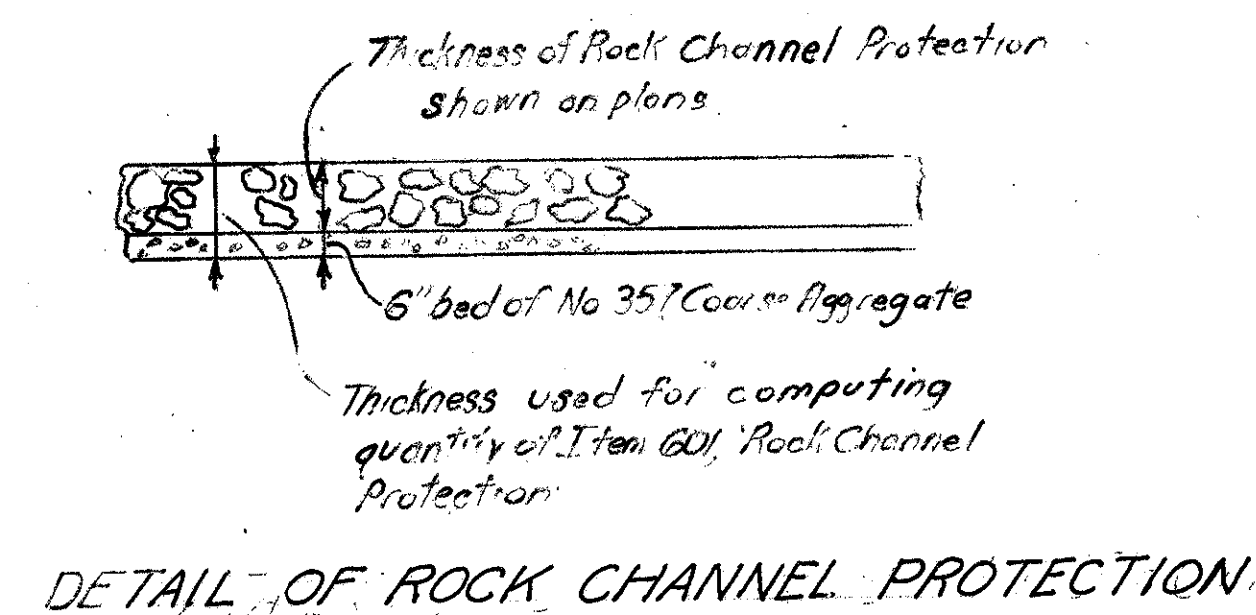
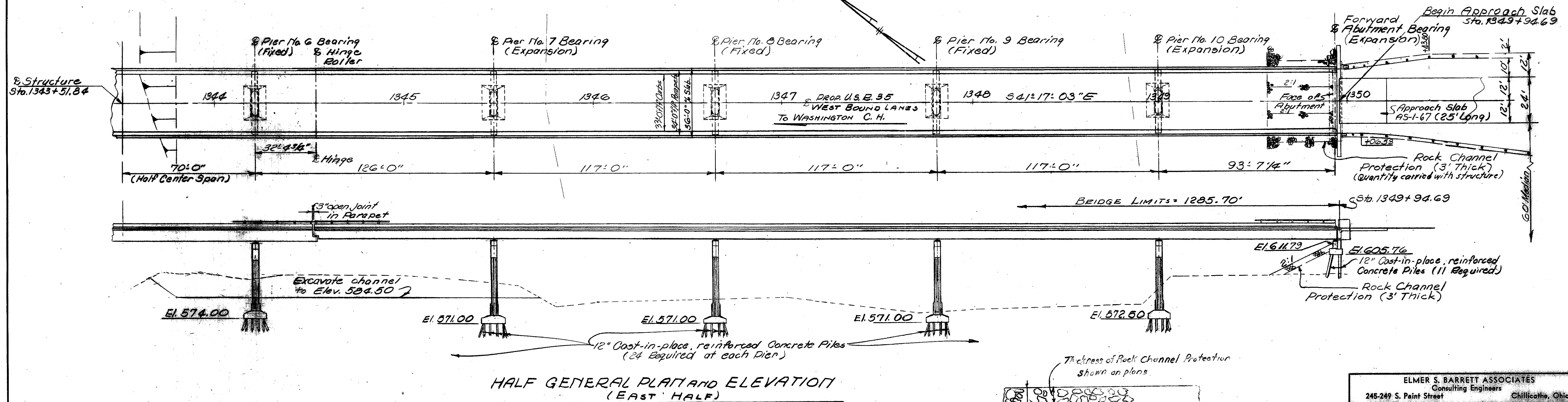
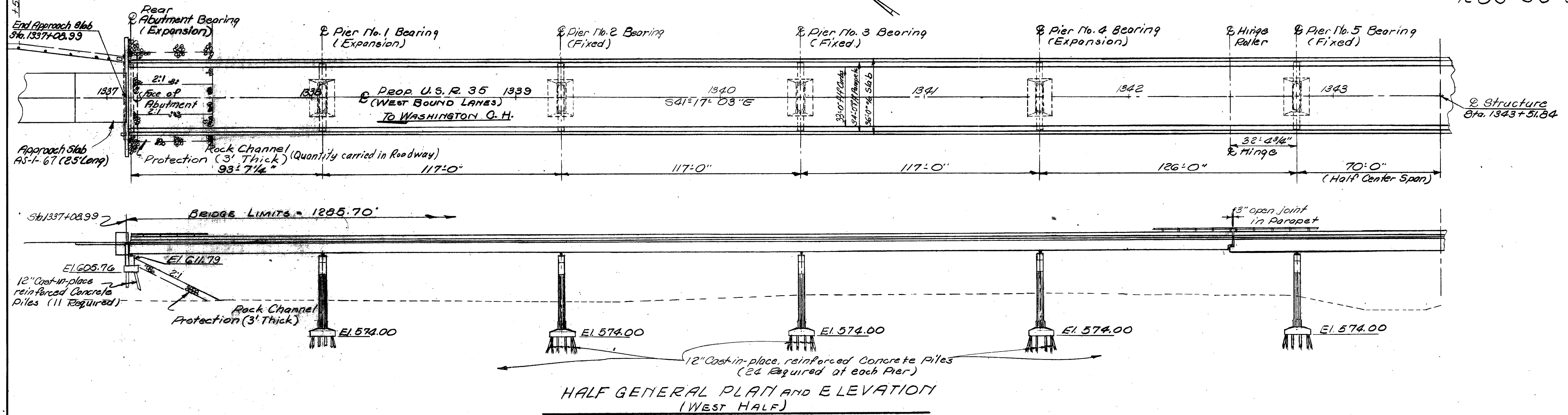
SCALE			DATE			
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.I.C.	P.J.M. L.P.		J.H.B.	W.I.C.	10/29/64	

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MAR 17 1982

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

125
225

ROSS COUNTY
ROS-35-25.05



ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio					
GENERAL PLAN AND ELEVATION BRIDGE NO. ROS-35-2532 L U.S.R. 35 OVER SCIOTO RIVER ROSS COUNTY STA. 1337+08.99 TO STA. 1349+94.69					
SCALE	DATE	DESIGNED	DRAWN	CHECKED	REVIEWED
1/4" = 1'	10/29/64	PHJ	WJL		

ROSS COUNTY
ROS-35-25.05

ESTIMATED QUANTITIES						
ITEM	QUANTITY	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPER
503	Lump	Sum	Cofferdams, Cribbs and Sheeting			
503	1744	Cu. Yds.	Unclassified Excavation	93	1651	
601	670	Cu. Yds.	Rock Channel Protection Type A			
511	1433	Cu. Yds.	Class C Concrete, Superstructure			1433
511	691	Cu. Yds.	Class C Concrete, Pier Stems and Caps		691	
511	93	Cu. Yds.	Class C Concrete, Abutments above Footings	93		
511	310	Cu. Yds.	Class C Concrete, Footings	61	249	
825	5830	Sq. Yds.	Concrete Surface Treatment	46		5784
509	520,453	Pounds	Reinforcing Steel	10805	98,703	410,945
513	1,819,700	Pounds	Structural Steel			1,819,700
514	1,819,700	Pounds	Field Painting of Structural Steel			1,819,700
517	2,565.08	Lin. Ft.	Railings (aluminum rail and supports and concrete parapet)			2,565.08
505	Lump	Sum	First Test Pile			Lump
506	Lump	Sum	Subsequent Pile Test Load			Lump
507	11,680	Lin. Ft.	12" Cast-in-Place Reinforced Concrete Piles	880	10,800	
518	33	Cu. Yds.	Porous Backfill	33		
518	44	Each	Scuppers, including supports			44
518	66	Lin. Ft.	6" Helical Perforated CMP, including specials 707.01	66		
518	48	Lin. Ft.	6" Helical CMP, non-perforated 707.01	48		
808	1433	Units	Water Reducing, Set Retarding Admixture			1433

FIELD SPLICE NOTES

BOLTS Shall be 1" diameter high strength.
Machine Finish: The concrete bridge deck shall be finished by the use of a finishing machine.

WELDED ATTACHMENTS: No attachments shall be made by field welding to the top flanges or flange plates of continuous beams or plate girders within a distance of 0.10 of the span length on either side of the interior supports. Welding for attachments to the top flanges at other parts of the spans shall be kept at least 2" from the edge of flange.

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MAR 17 1982

GENERAL NOTES

REFERENCE shall be made to Standard Drawings AS-1-67 revised 1-11-68, SD-1-65 revised 11-8-65, BR-1-65 revised 11-24-65, FSB-1-62 revised 1-15-63 and Supplemental Specifications 808 dated 1-1-69, 811 dated 1-1-69, 825 dated 1-1-69.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

Design Loading: CF-2000 (57)

Concrete, Class C: basic unit stress - 1,333 p.s.i. Substructure
basic unit stress - 1,133 p.s.i. Superstructure

Structural Steel: ASTM A36, basic unit stress - 20,000 p.s.i.

Reinforcing Steel: ASTM A615, A616, A617 Deformed, Intermediate or Hard Grade. Basic unit stress - 20,000 p.s.i.

PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the subgrade for a distance of 200 feet back of the abutments for a minimum period of 30 days, after which excavation shall be made for the abutments and piles driven.

EXCAVATION QUANTITY for the abutments includes the removal of fill material required for construction of the abutments. Excavation quantity for the piers includes the removal of material between the surface of the proposed channel and the bottom of the pier footings.

PILES shall be driven to a minimum bearing capacity of 34 tons per pile for the abutments, 46 tons per pile for Piers No. 1, 2, 3, 4, 7, 8, 9, 10 and 43 tons per pile for Piers No. 5 and 6.

WELDS on non-stress carrying members are shown thus 

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress up grade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.

STRUCTURAL STEEL: Steel used for the fabrication of rollers and roller bearing plates shall conform to the requirements of Sec. 711.04.

All other structural steel shall conform to the requirements of 711.01, ASTM A36.

ITEM 5-7.10, High Strength Steel Bolts, Nuts and Washers, paragraph two (2), shall be completely revised and the last sentence of paragraph four (4) revised to read as follows:
"In the final assembly of the parts to be bolted, drift pins shall be placed in a sufficient number of holes (not less than 25 percent for field erection) to provide and maintain accurate alignment of holes and parts, and sufficient bolts shall be installed and brought to a snug tight condition to bring the parts into complete contact. Bolts shall then be installed in any remaining open holes and tightened to a snug tight fit after which all bolts shall be tightened completely by calibrated wrenches or by the turn-of-nut method. Drift pins shall then be replaced with bolts, tightened in the same manner."
"Bolt lengths determined by the use of Table No. 1 shall be adjusted to the next 1/4-inch length increment."

GIRDER ERECTION: The Contractor shall submit to the Director, for approval, three prints showing his proposed erection procedure for the plate girders.

STAINLESS STEEL FASTENERS shall be properly passivated to remove surface impurities and shall be furnished with a Lustrous finish.

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio					
ESTIMATED QUANTITIES AND GENERAL NOTES BRIDGE NO. ROS-35-2532L U.S.R. 35 OVER SCIOTO RIVER ROSS COUNTY STA 1337+08.99 TO STA 1349+94.69					
SCALE	DATE	DESIGNED	DRAWN	TRACED	CHECKED
		WIC	RJM		RJM

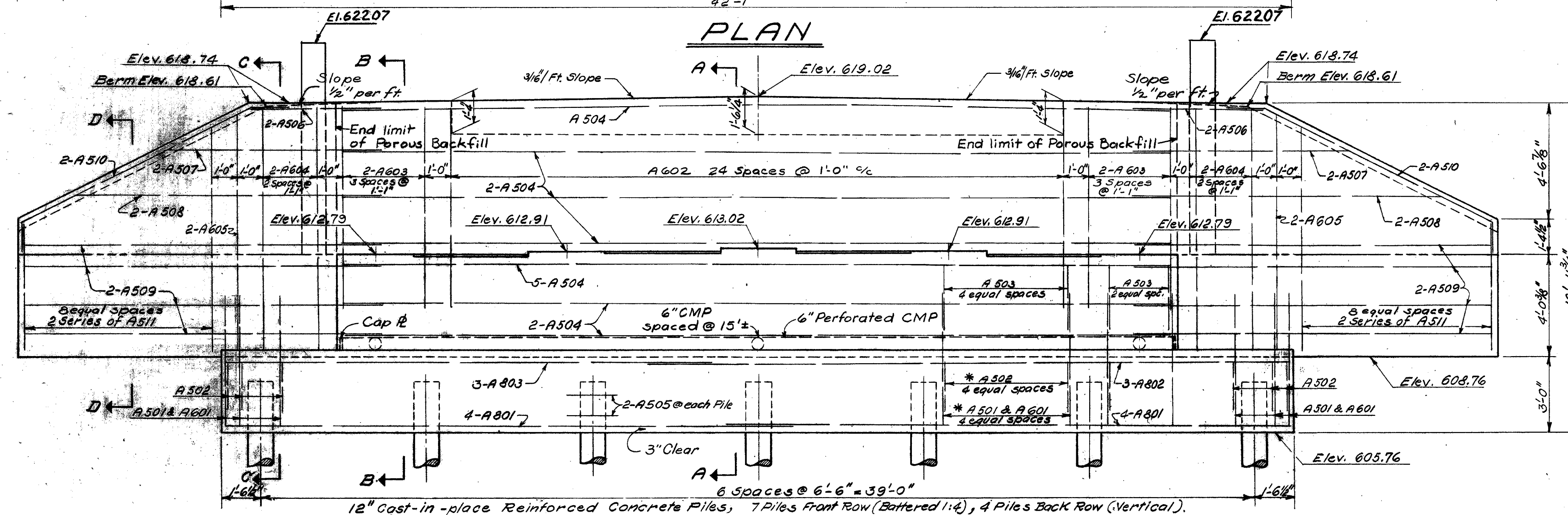
127
225

NOTES

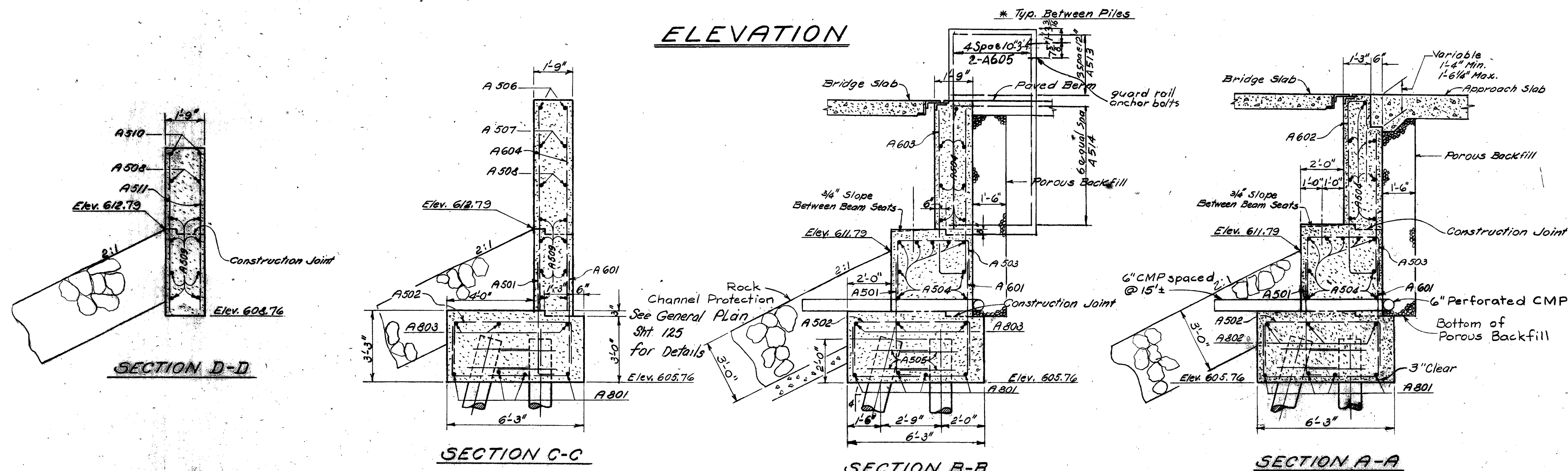
POROUS BACKFILL shall extend upward to the approach slab, paved berms and to the surface of the earth shoulders, and outward to the limits as shown on the "Elevation" view.

BRIDGE SEAT REINFORCEMENT: Special care shall be taken in placing of reinforcing bars in the bridge seats so as to avoid interference with the anchor bars.

End Post are included with obituaries
for payment



ELEVATION



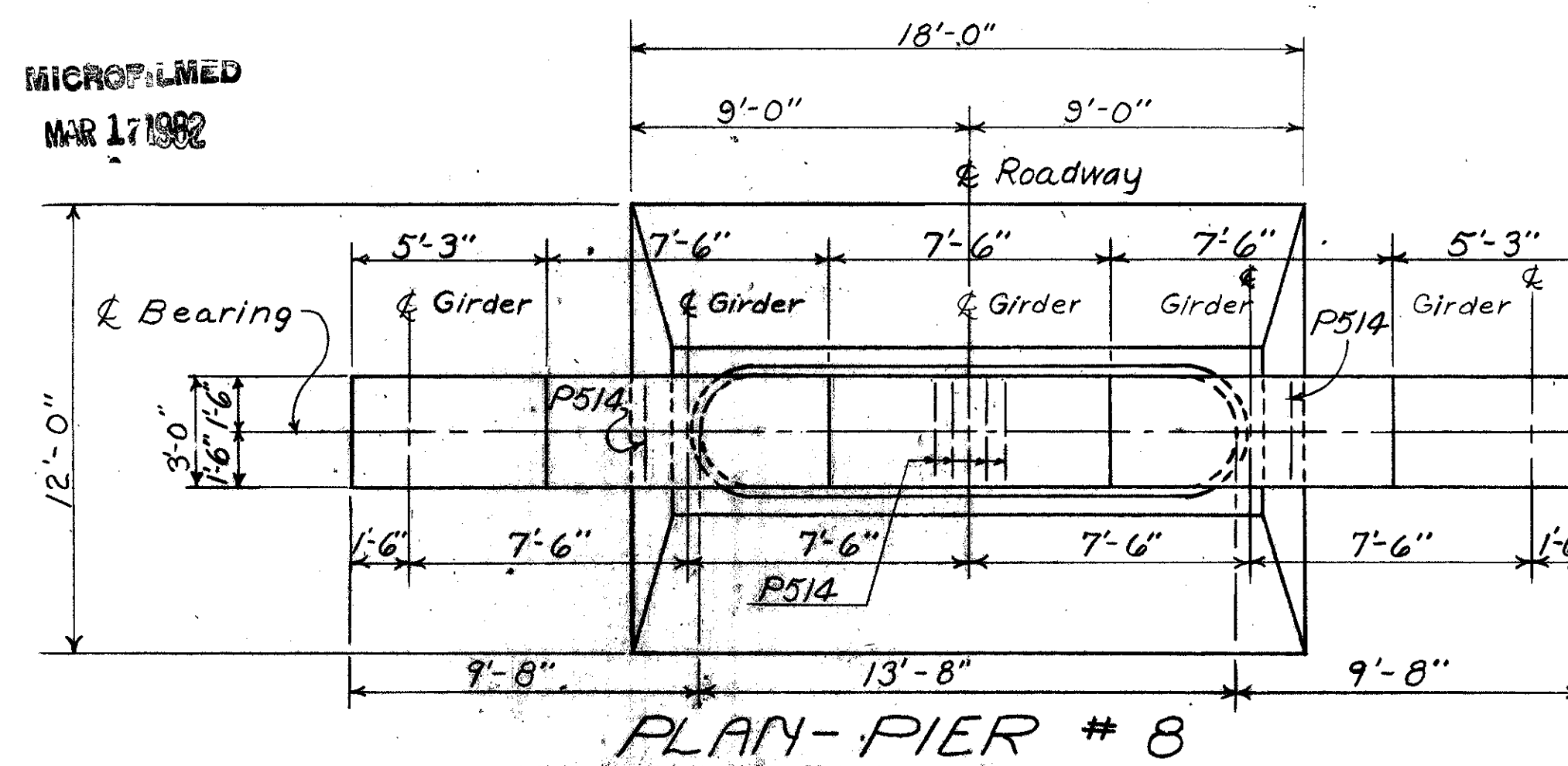
ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street
Chillicothe, Ohio

ABUTMENT DETAILS

BRIDGE No. R05-35-2532 L
U.S.R. 35 over SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA. 1337+08.99 To STA. 1349+94.69
DATE

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.H.S.	E.H.S.	L.R.	K.L.H.	W.L.	10/29/84	

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MAR 17 1982



④ Denotes direction of batter
Amount of batter $\sim 1:4$

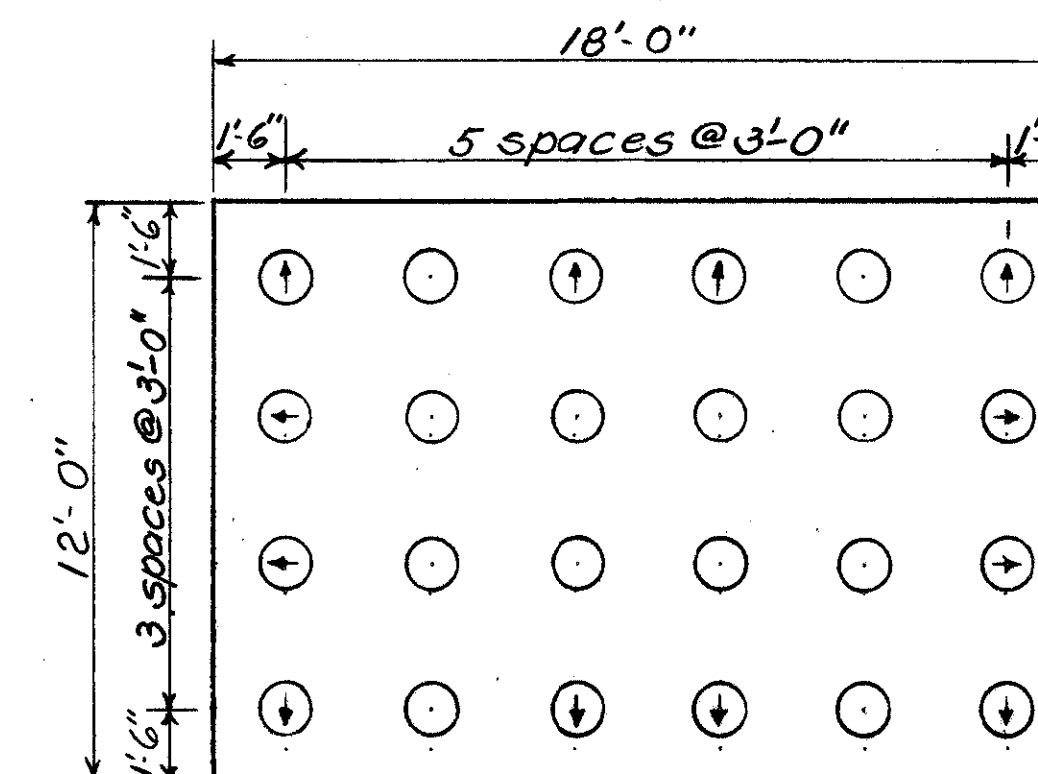
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ROSS COUNTY
ROS - 35 - 25.05

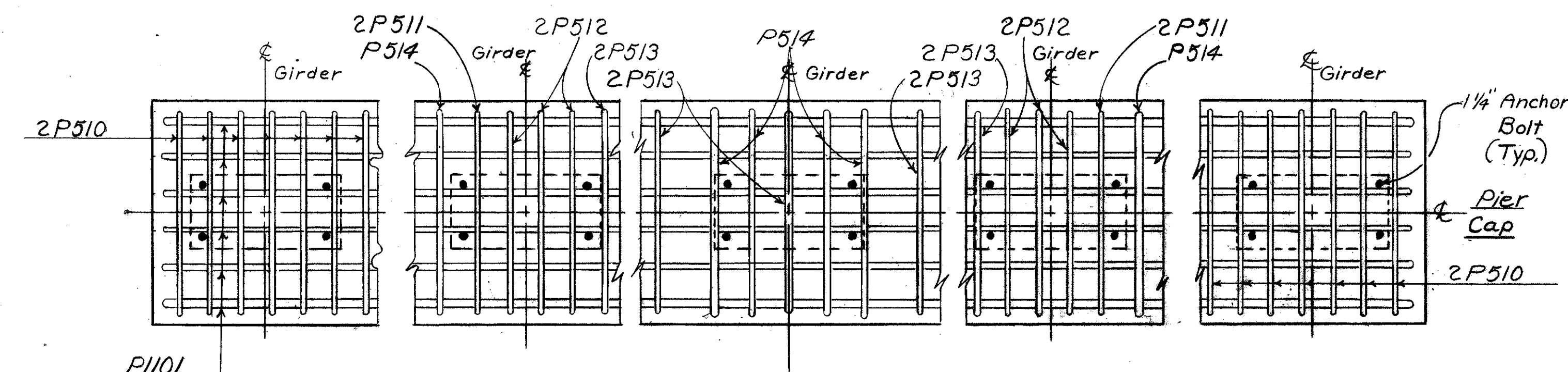
NOTES

Care shall be taken in placing the reinforcing steel under Girder seats so as not to interfere with bearing anchor bolts.

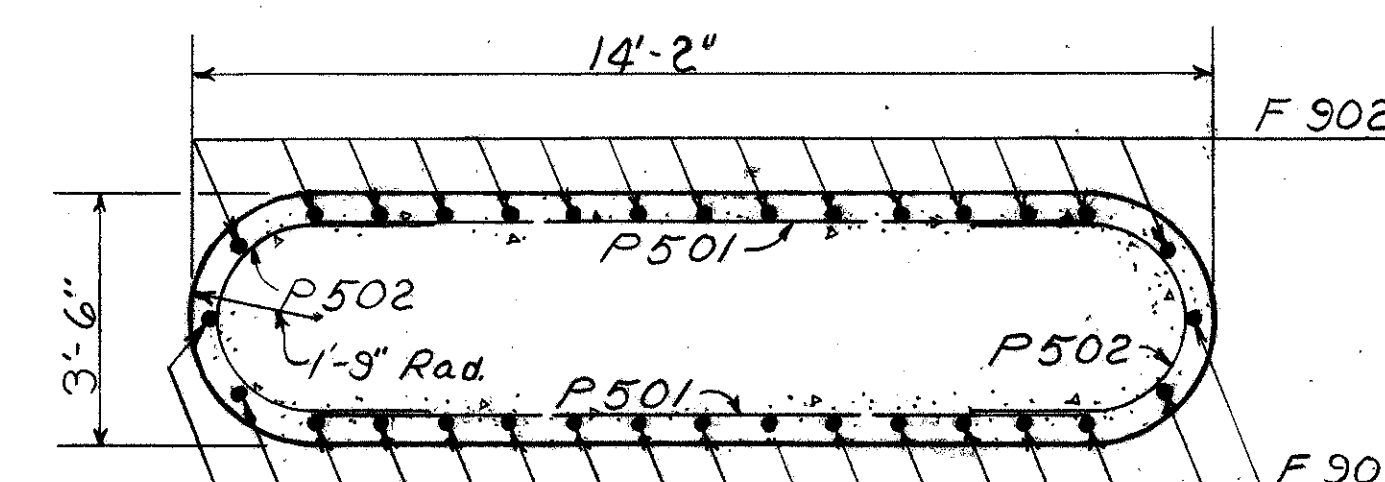
All piles 12" Cast-in-place Reinforced Concrete



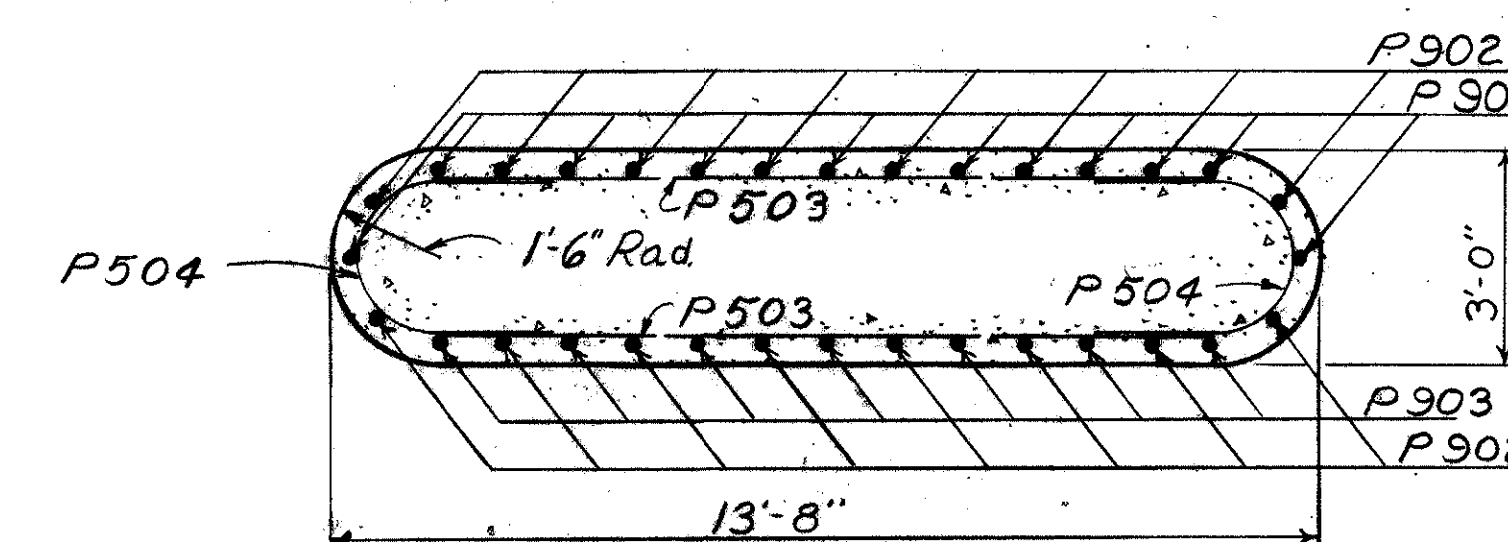
PILE PLAN



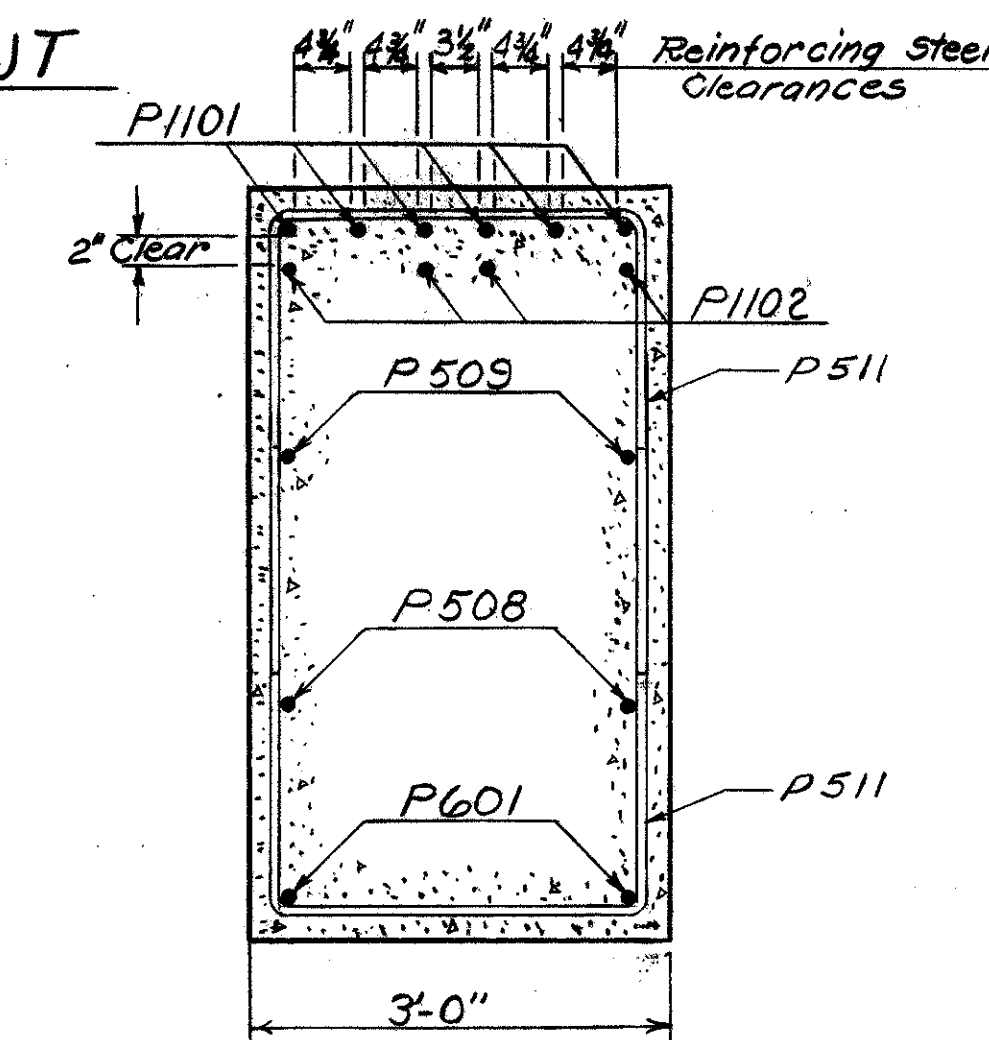
ANCHOR BOLT LAYOUT



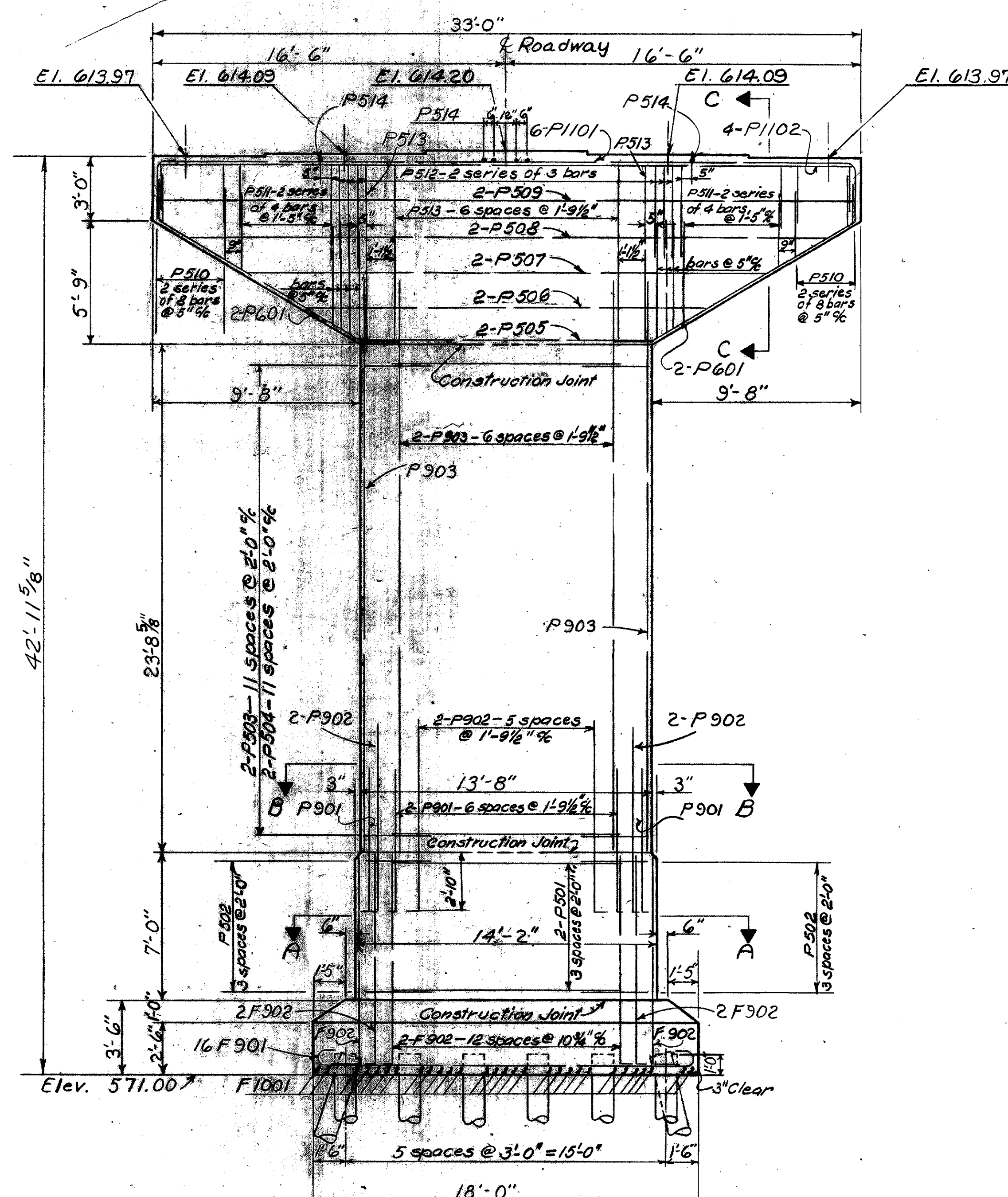
SECTION A-A



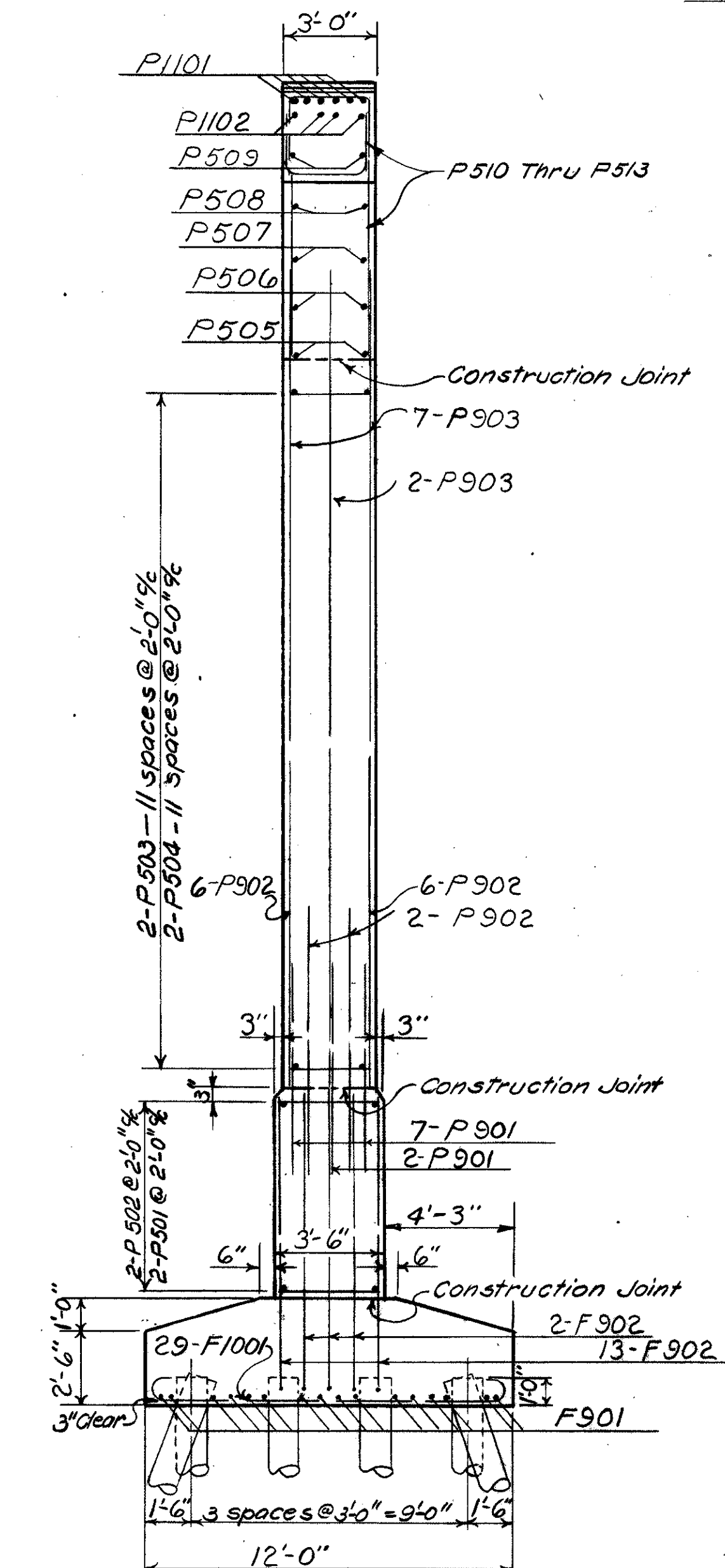
SECTION B-B



SECTION C-C



ELEVATION-PIER # 8



END ELEVATION

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Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

PIER DETAILS

BRIDGE No. ROS-35-2532 L

U.S.R. 35 over SCIOTO RIVER
BASS COUNTRY

ROSS COUNTY U.S.R. 33
STA. 1337+08.99 TO STA. 1349+94.69

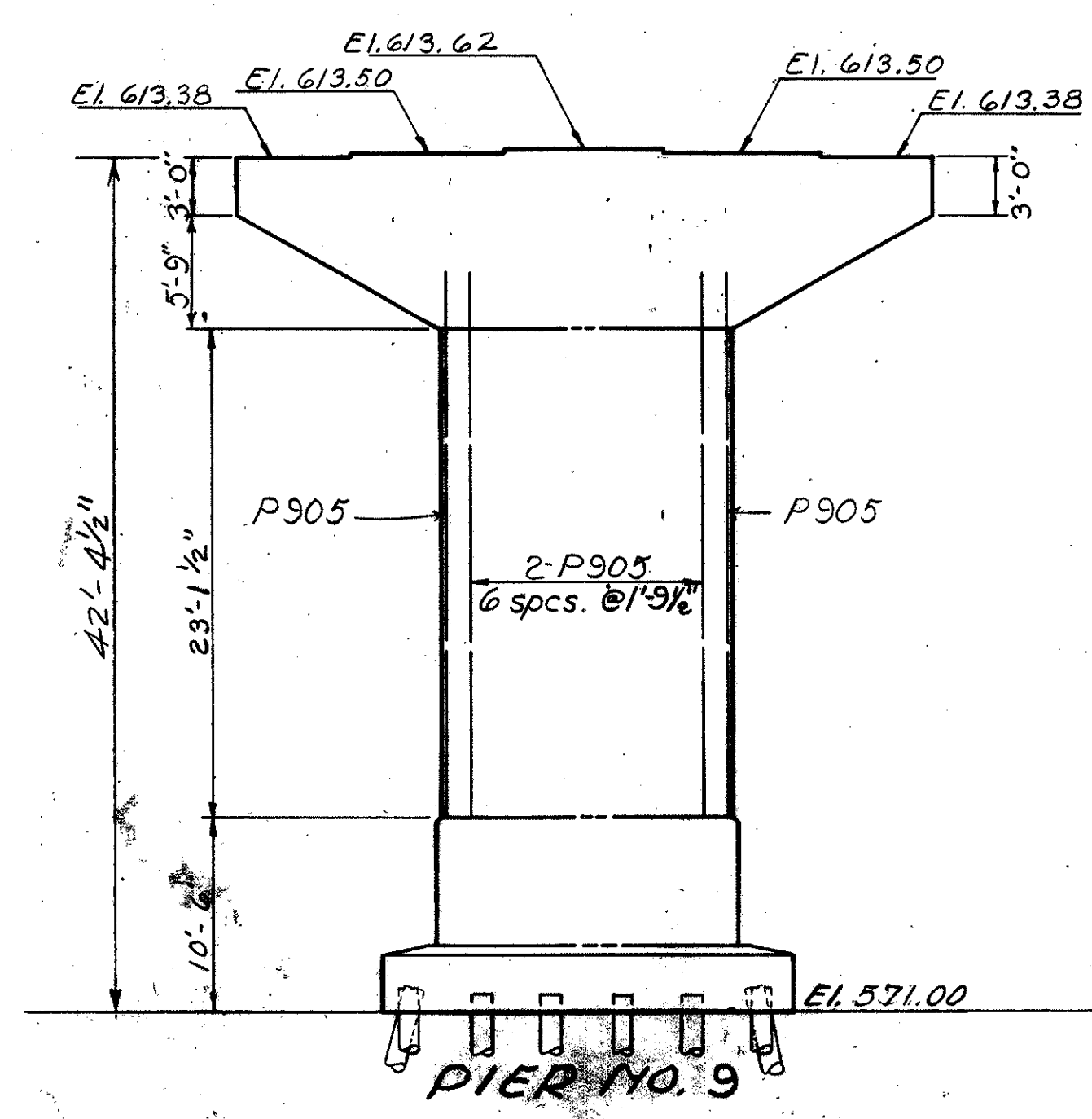
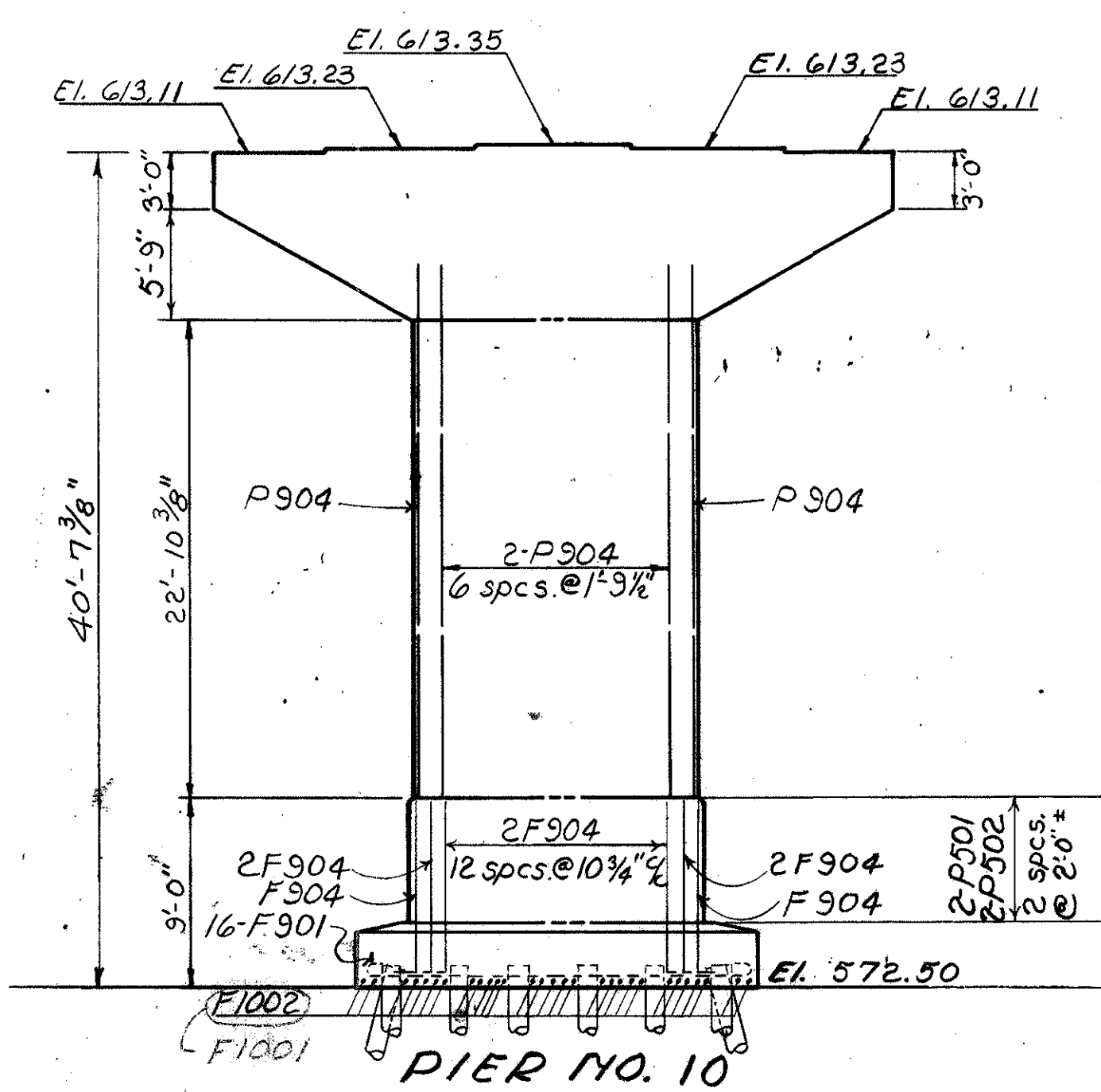
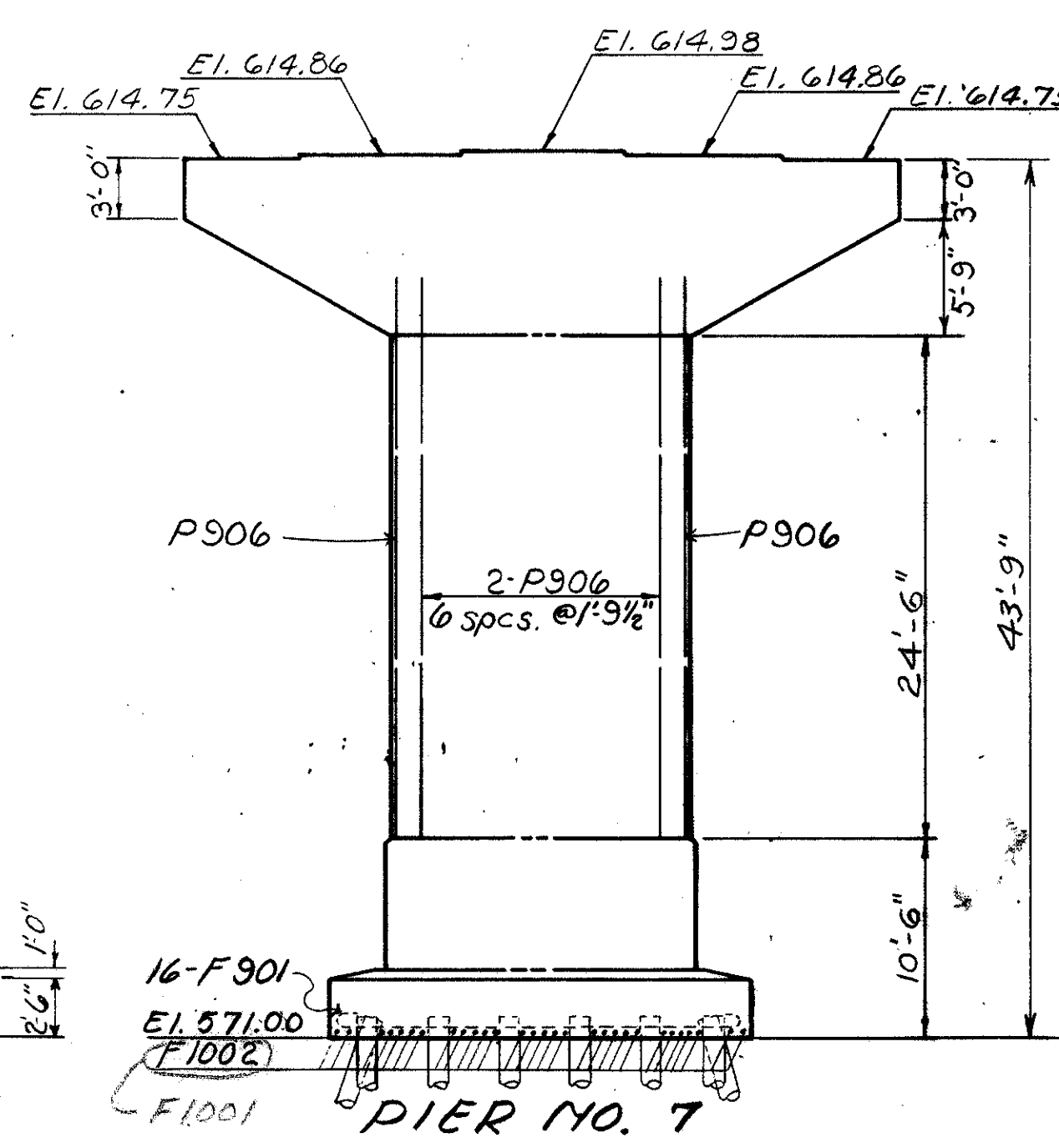
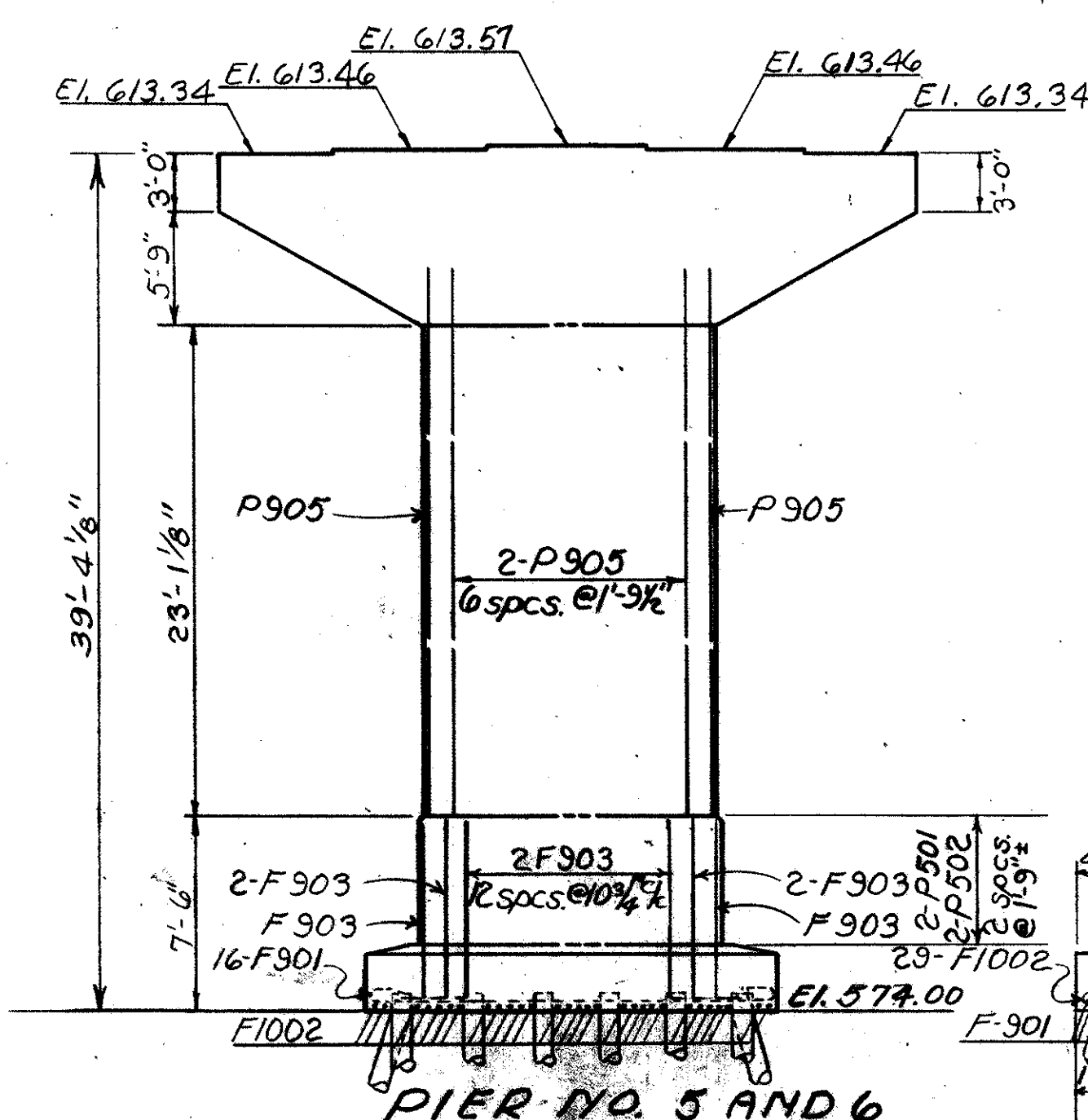
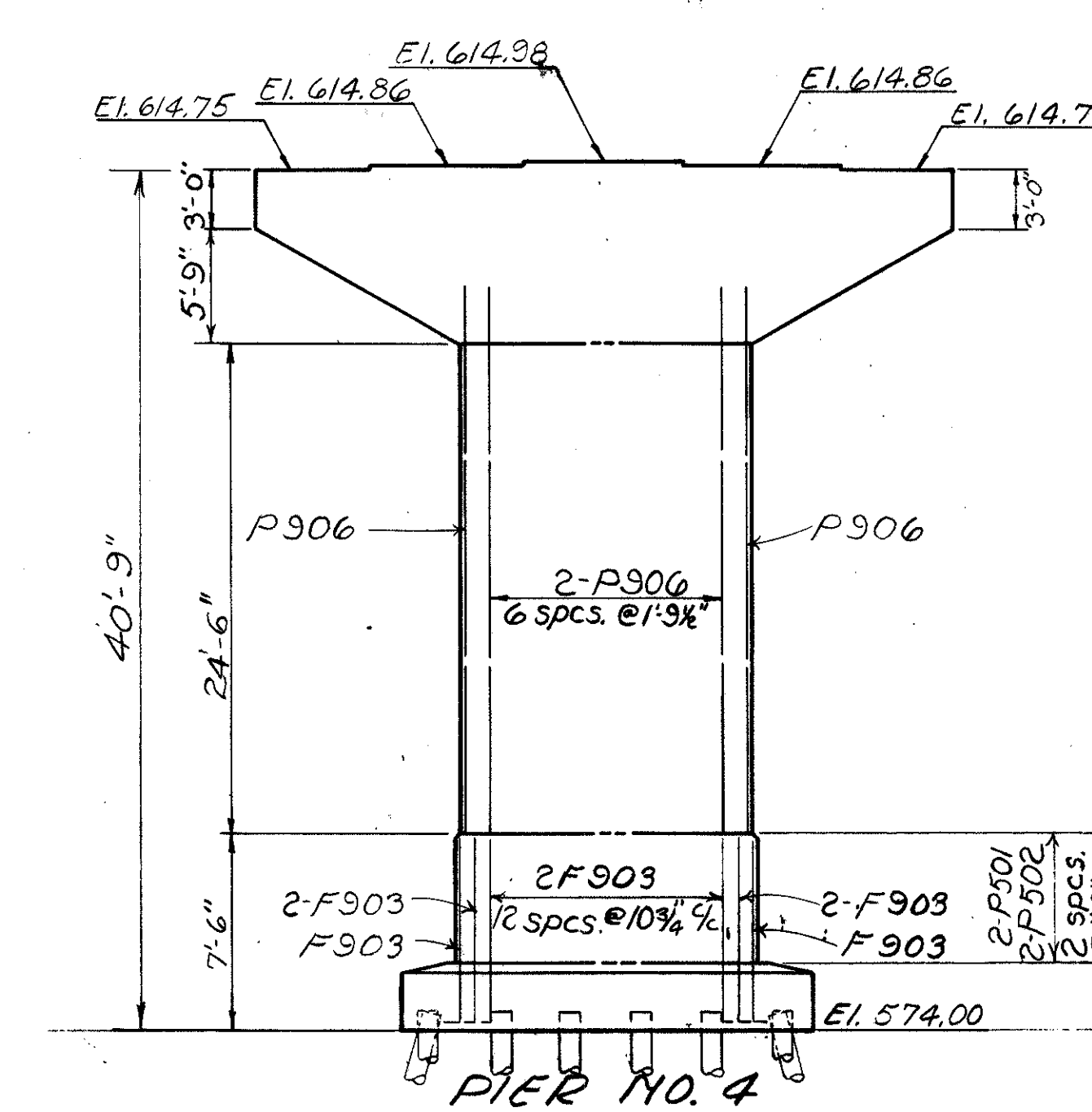
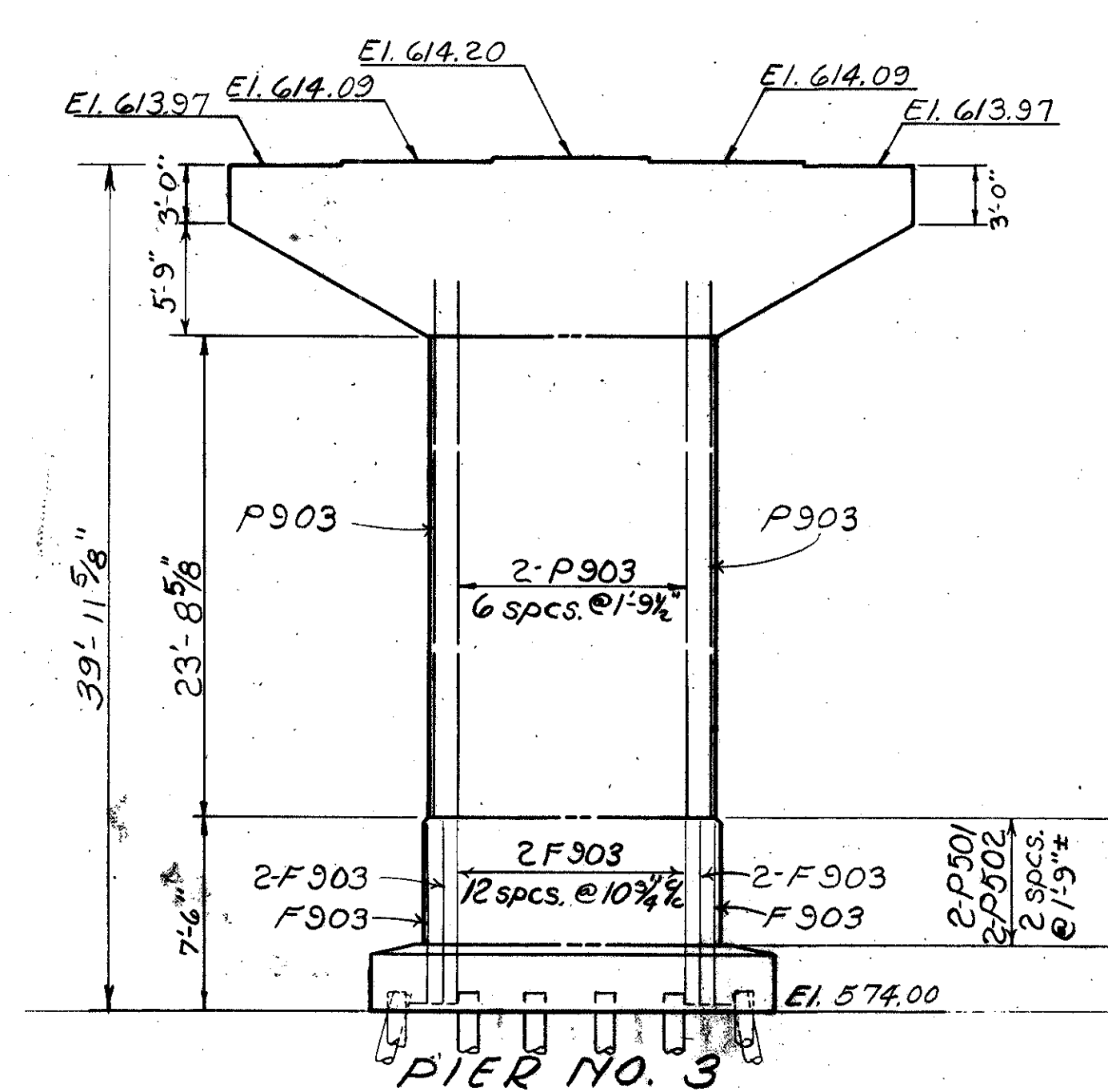
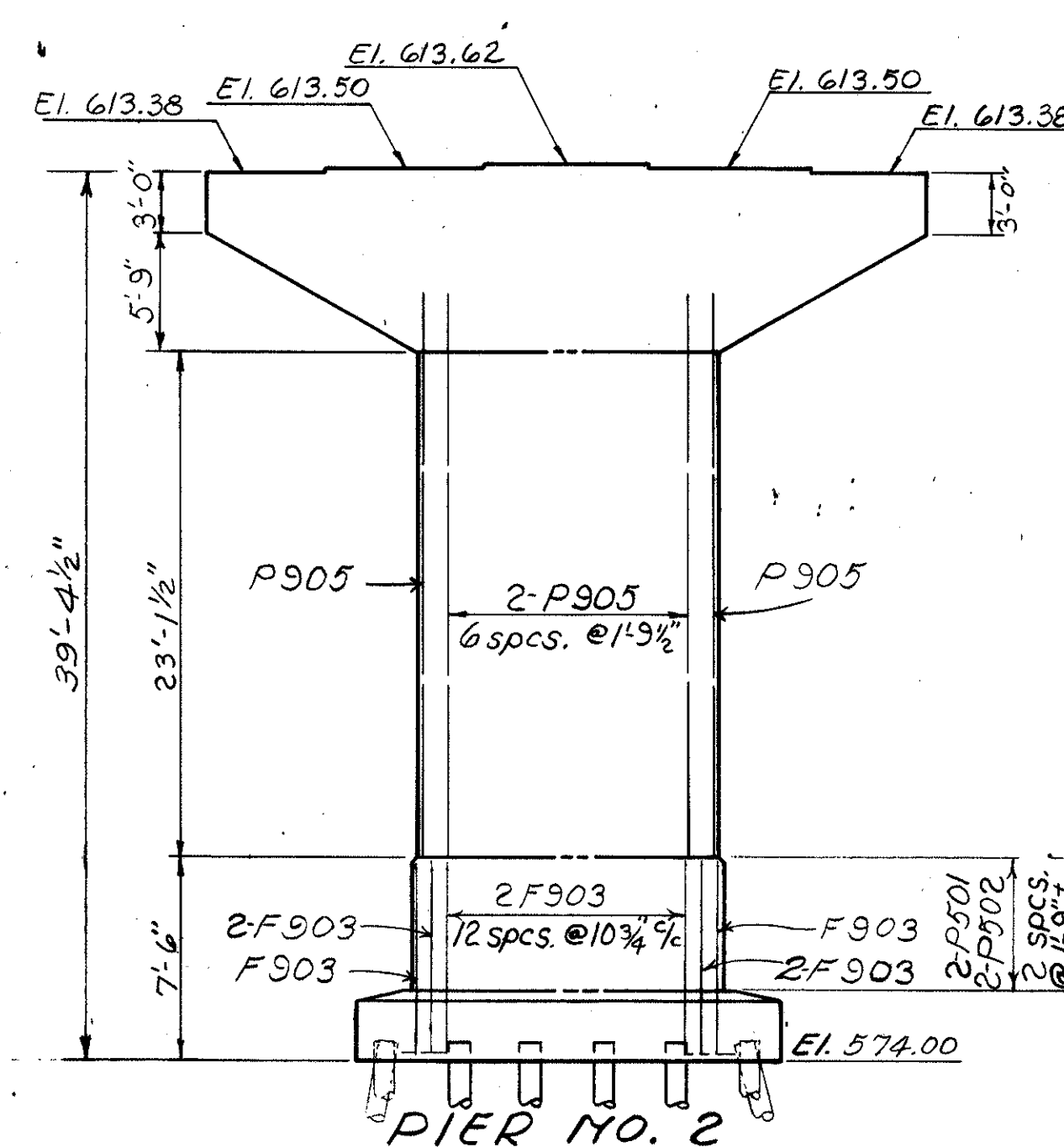
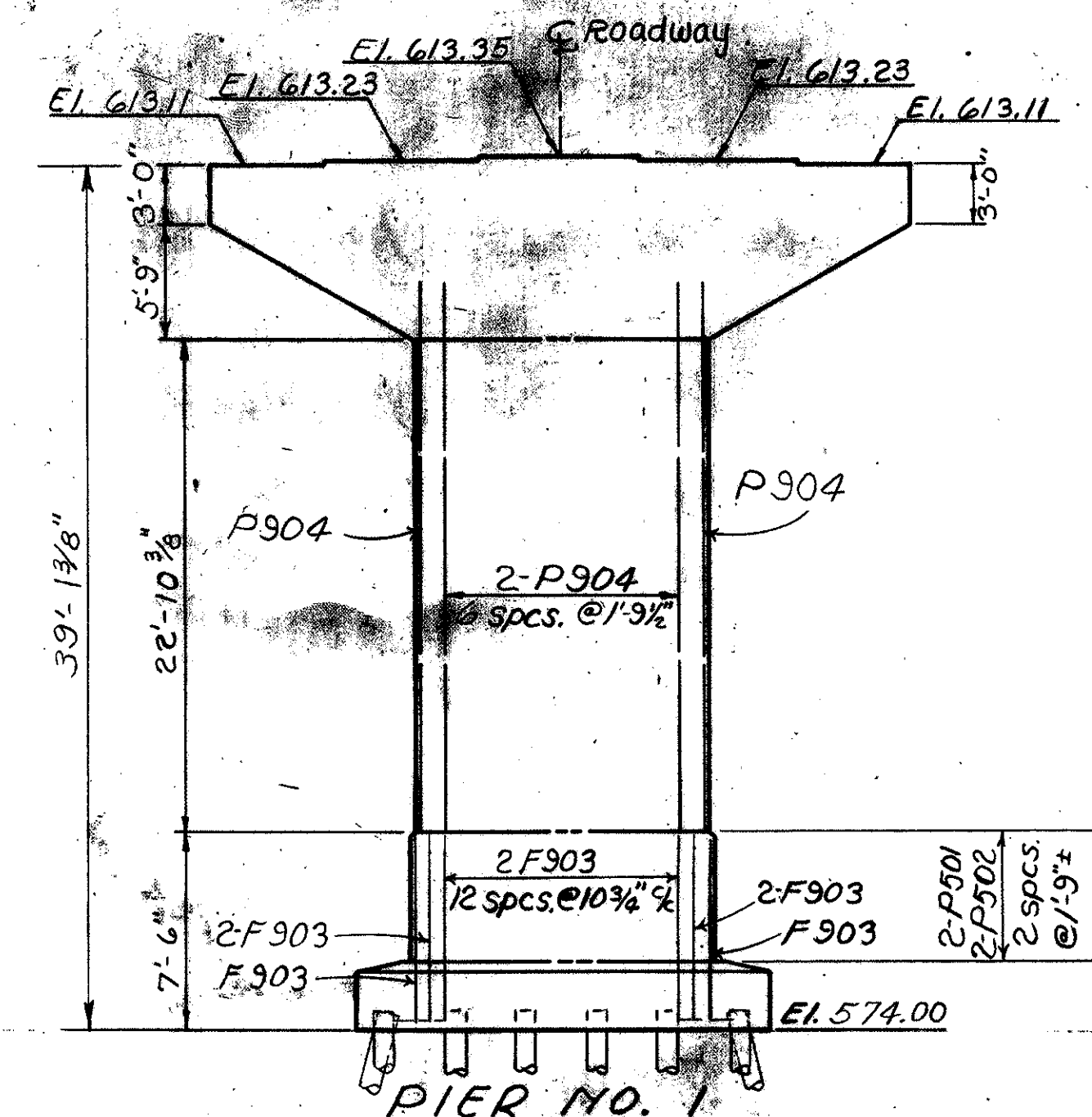
SCALE			DATE			
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
DJP	DER		FHS	WK	10/29/64	

MICROFILMED
MAR 17 1982

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

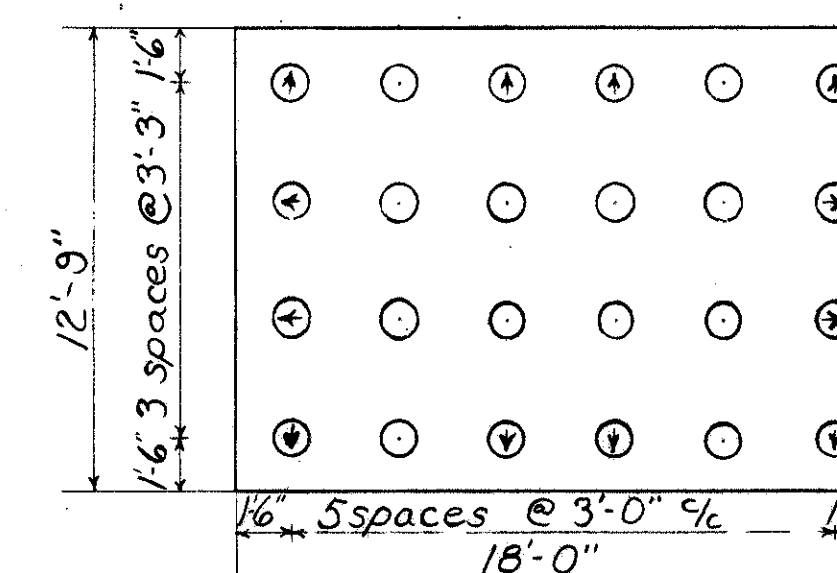
129
225

ROSS COUNTY
R05-35-25.05



END ELEVATION FOR
PIER NO. 5 AND 6

NOTE: For dimensions, reinforcing steel
and details not shown, see Pier
No. 8.



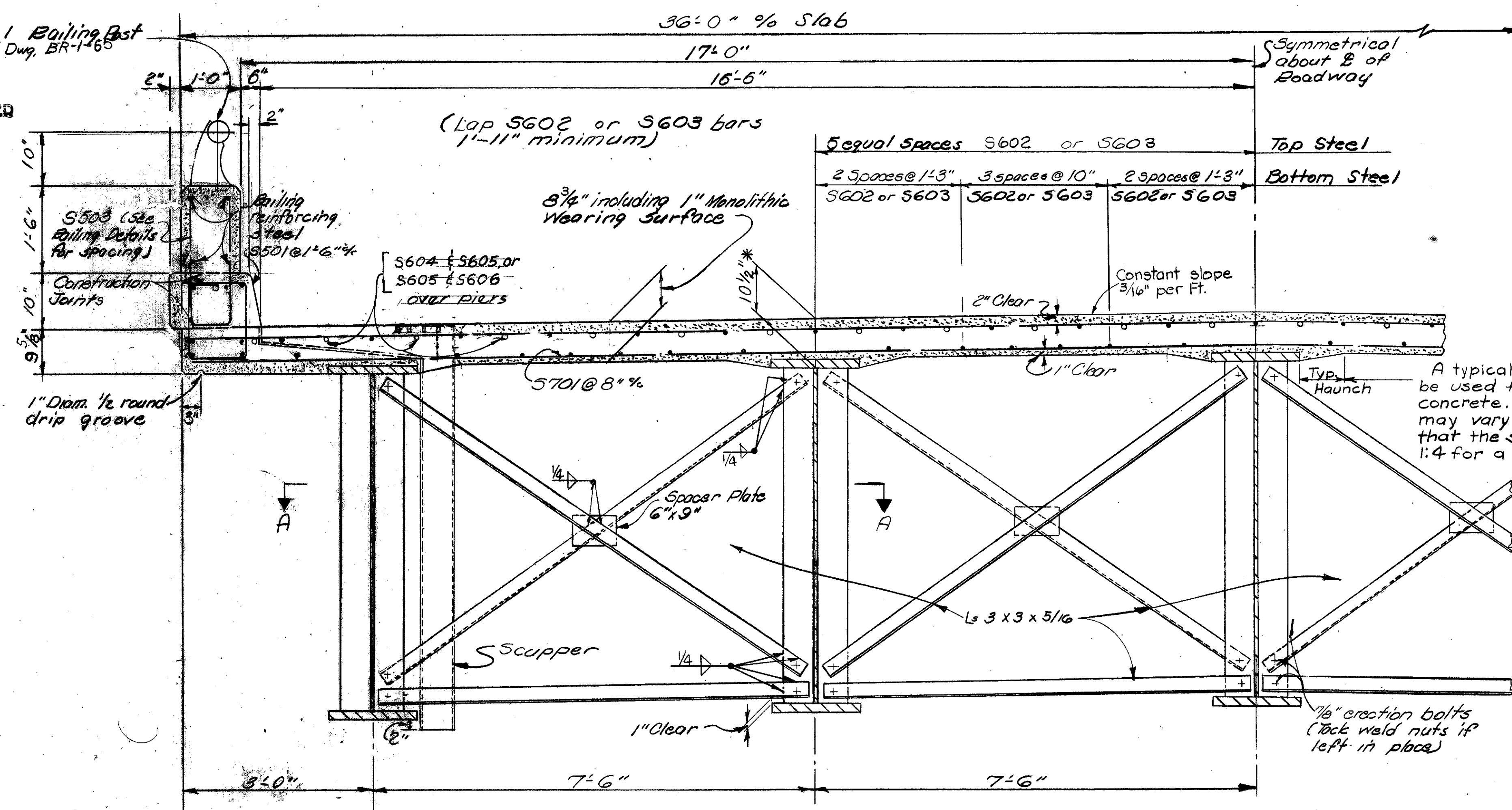
PILE PLAN FOR PIER NO. 5 AND 6

For Pile Plan of Piers 1, 2, 3, 4, 7, 9 and 10
see Pile Plan for Pier No. 8.

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio					
PIER DETAILS					
BRIDGE No. R05-35-2532 L					
U.S.R. 35 over SCIOTO RIVER					
ROSS COUNTY U.S.R. 35					
STA. 1337+08.99 TO STA. 1349+94.60					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
DJP	DER		FHL	WLC	10/24/64

Type 1 Bailing Post
See Std. Dwg. BR-1265

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MAR 17 1982

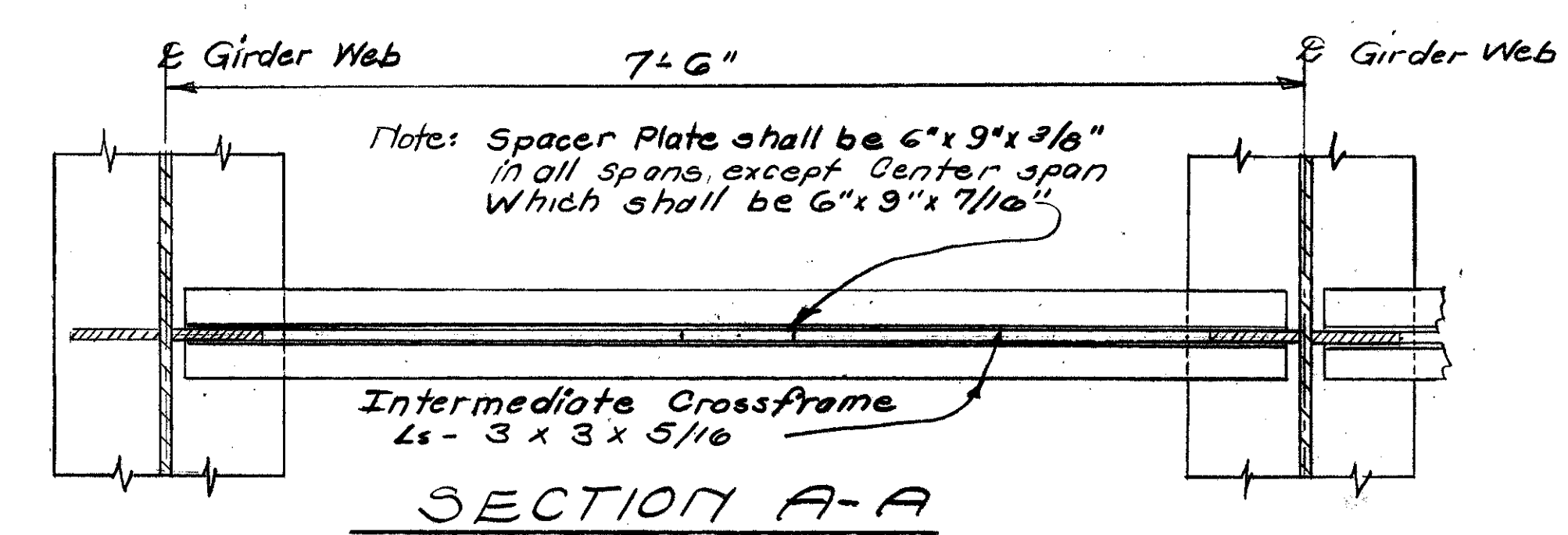


TYPICAL HALF TRANSVERSE SECTION

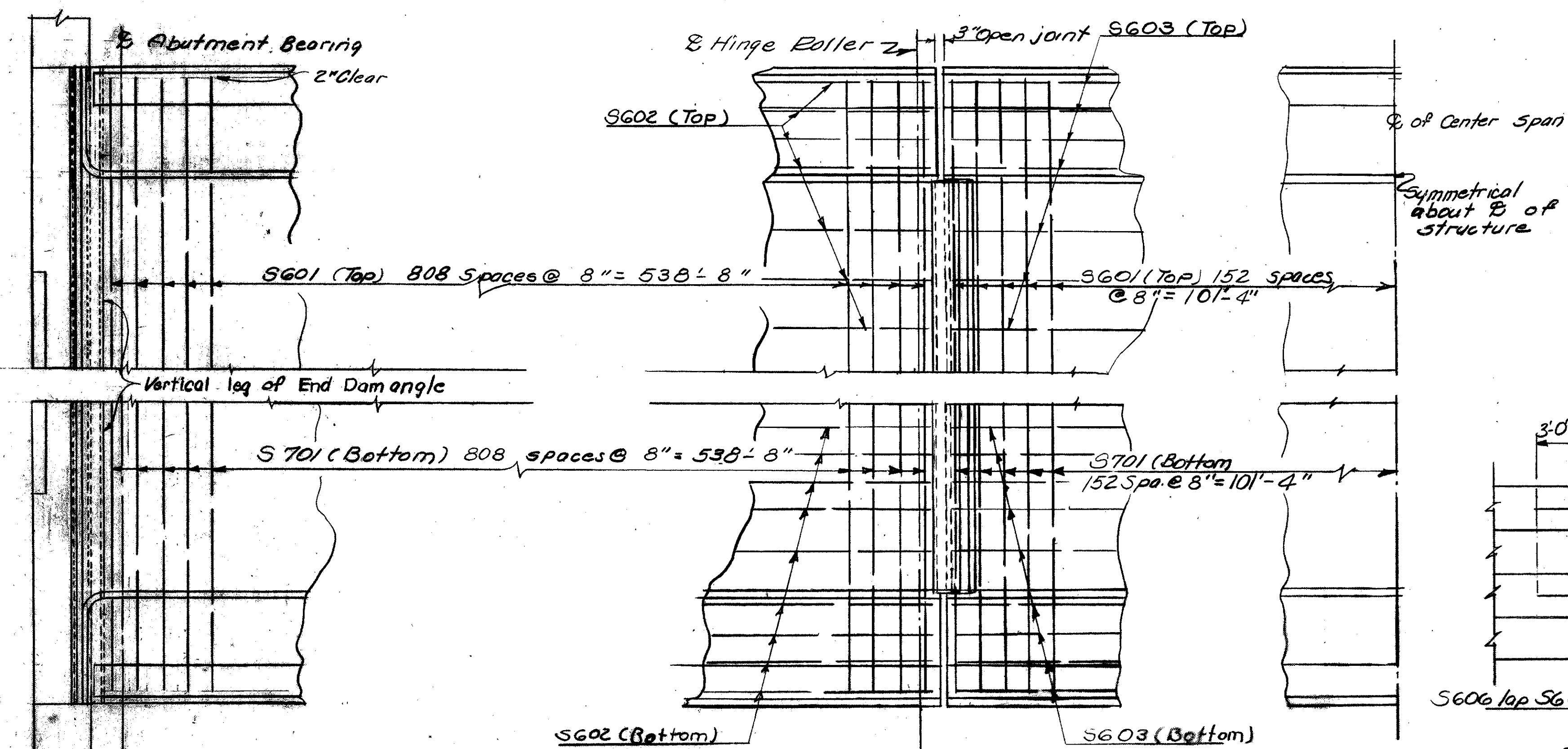
NOTES

* This is the nominal dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per Sec. 511.19 of the Construction and Material Specifications.

A typical haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.



SECTION A-A



PART PLAN SLAB REINFORCING

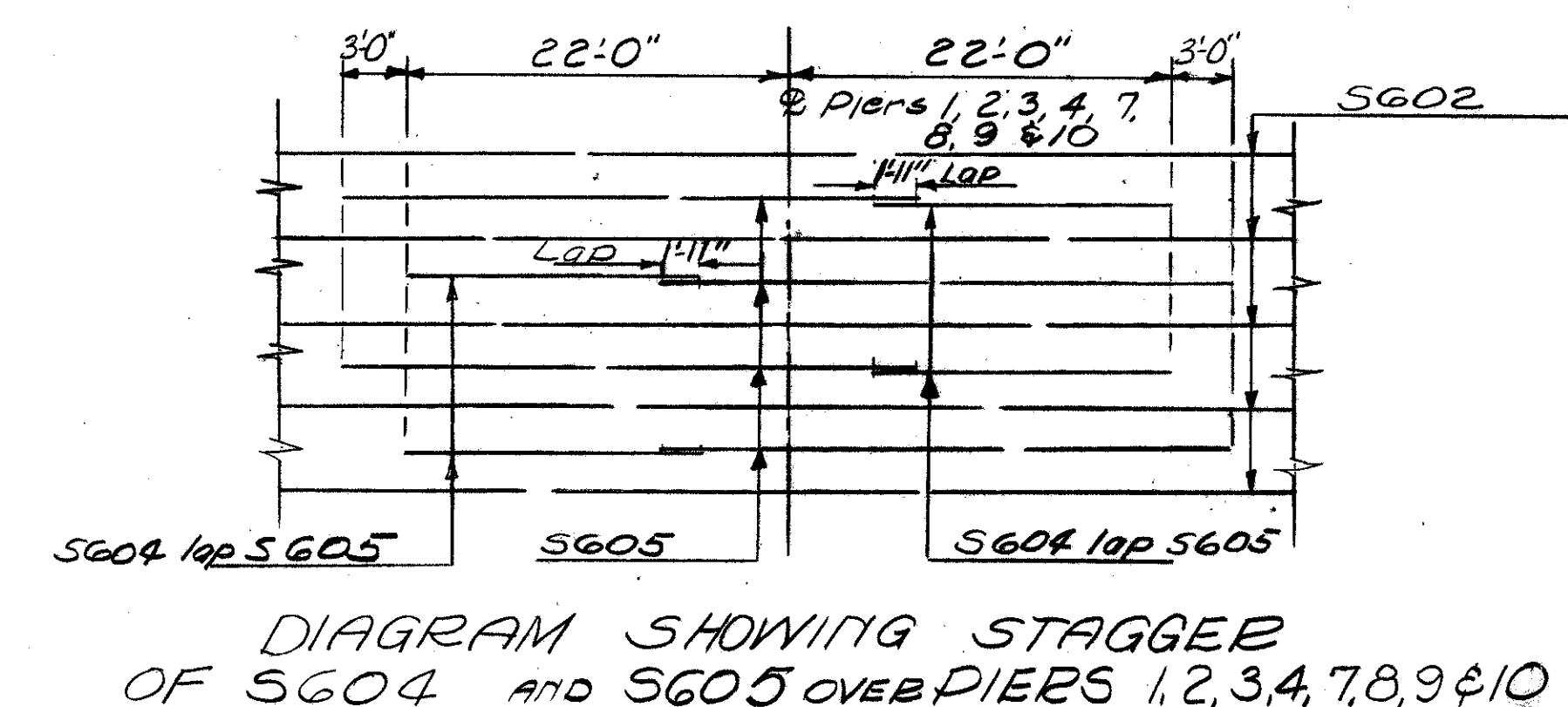


DIAGRAM SHOWING STAGGER OF S604 AND S605 OVER PIERS 1, 2, 3, 4, 7, 8, 9 & 10

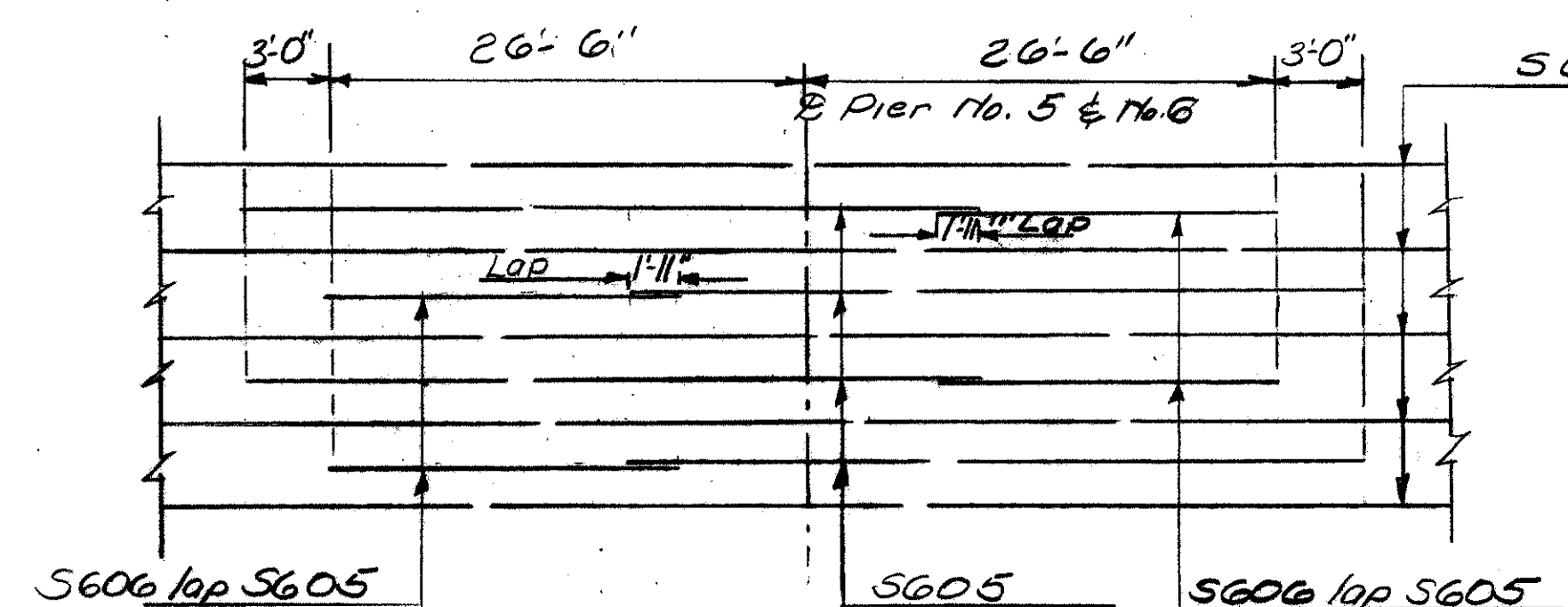


DIAGRAM SHOWING STAGGER OF S605 AND S606 OVER PIERS 10.5 & 10.6

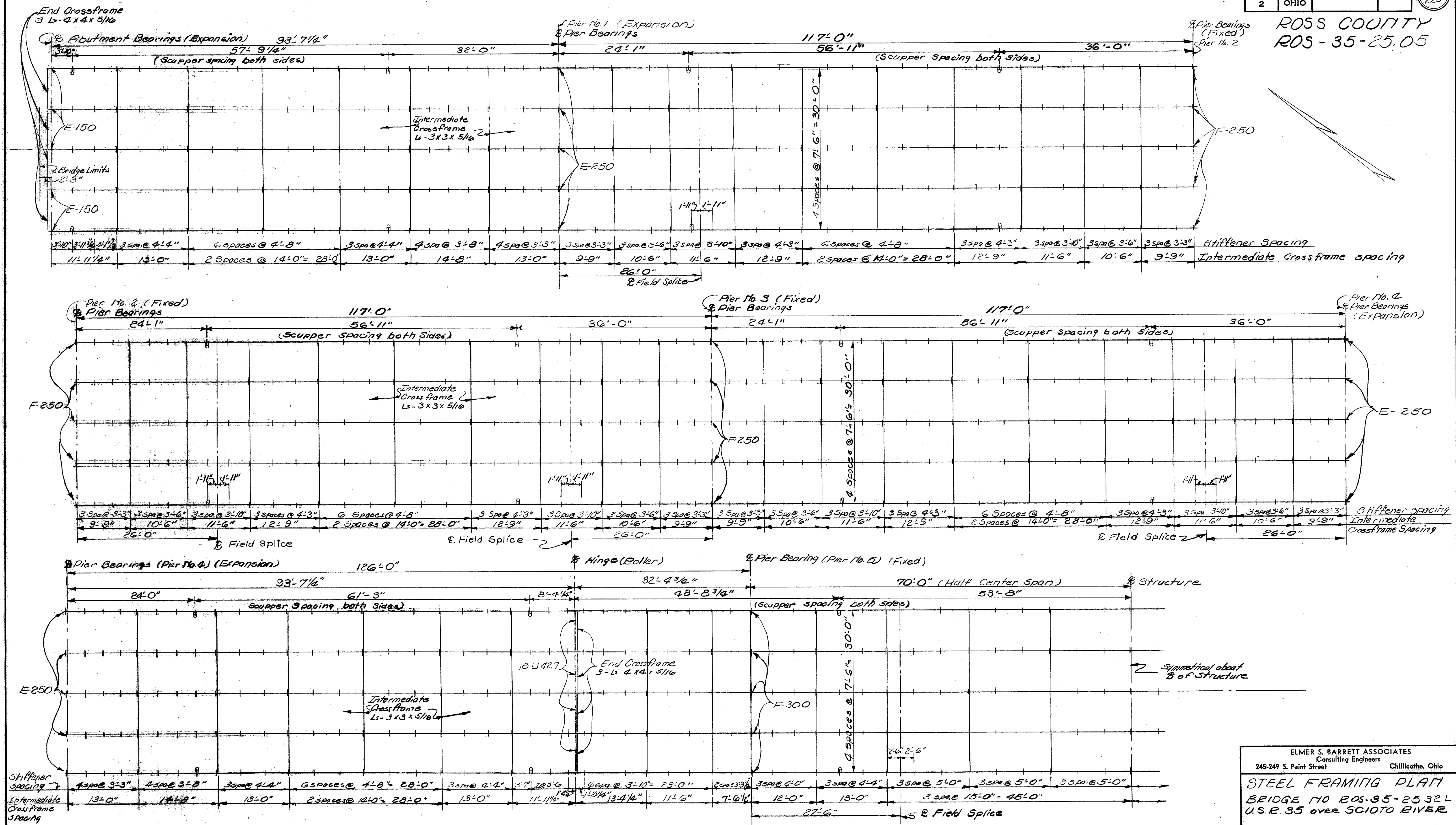
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

ROSS COUNTY
ROS-35-25.05

130
275

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio					
SLAB REINFORCING DETAILS BRIDGE NO ROS-35-2532 L U.S.R. 35 OVER SCIOTO RIVER					
ROSS COUNTY U.S.R. 35 STA. 1337 + 08.99 TO STA. 1349 + 94.69					
SCALE	DATE	DESIGNED	DRAWN	TRACED	CHECKED
WIC	PJM	FHS	WIL		
					10/24/64

ROSS COUNTY
ROS-35-25.05



HALF STEEL FRAMING PLAN

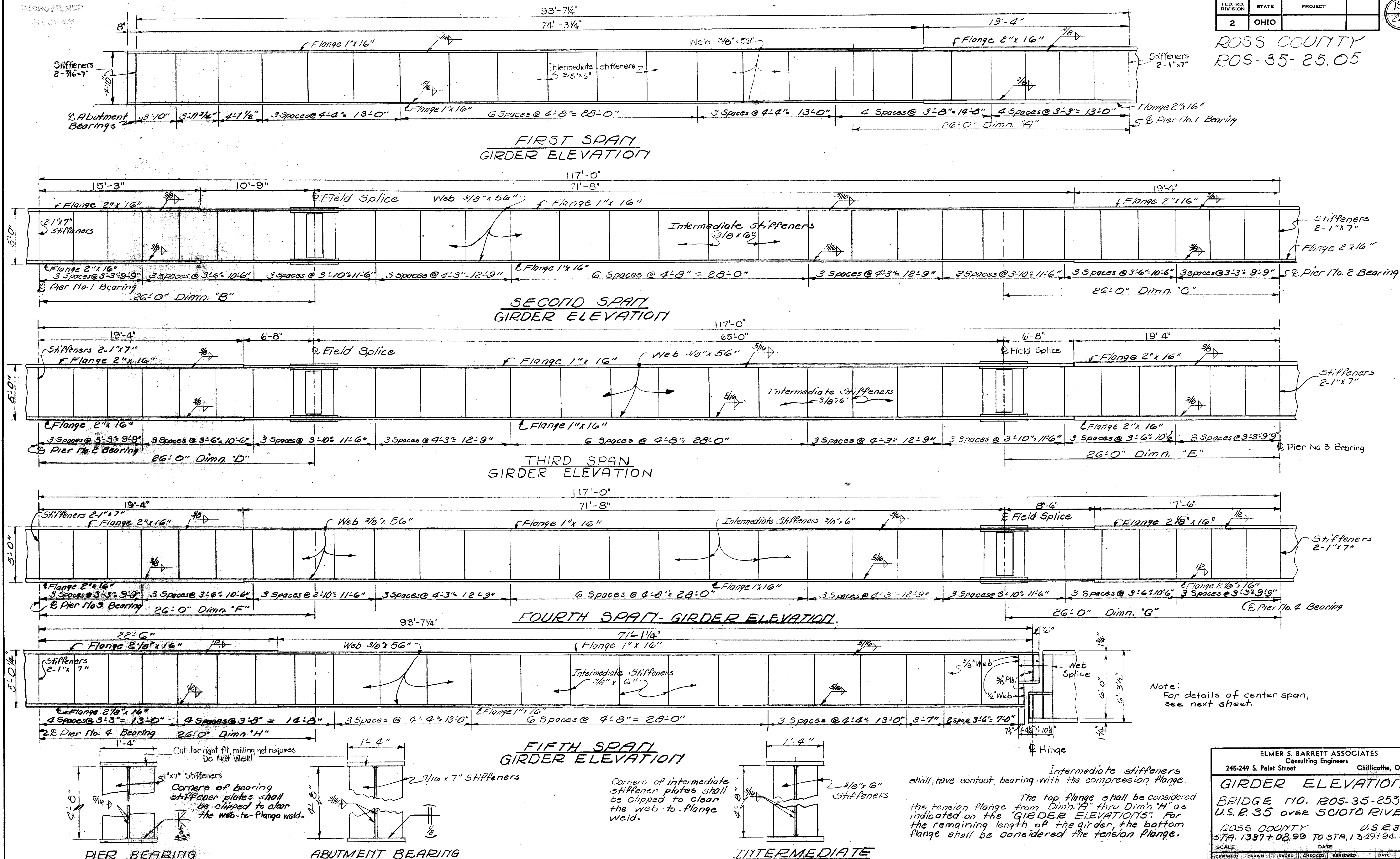
ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

STEEL FRAMING PLAN
BRIDGE NO. ROS-35-25.05
U.S.R. 35 OVER SCIOTO RIVER

ROSS COUNTY U.S.R. 35
STA. 1337+08.99 TO STA. 1349+94.69

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.C. P.J.M.					10/24/64	

ROSS COUNTY
ROS-35-25.05

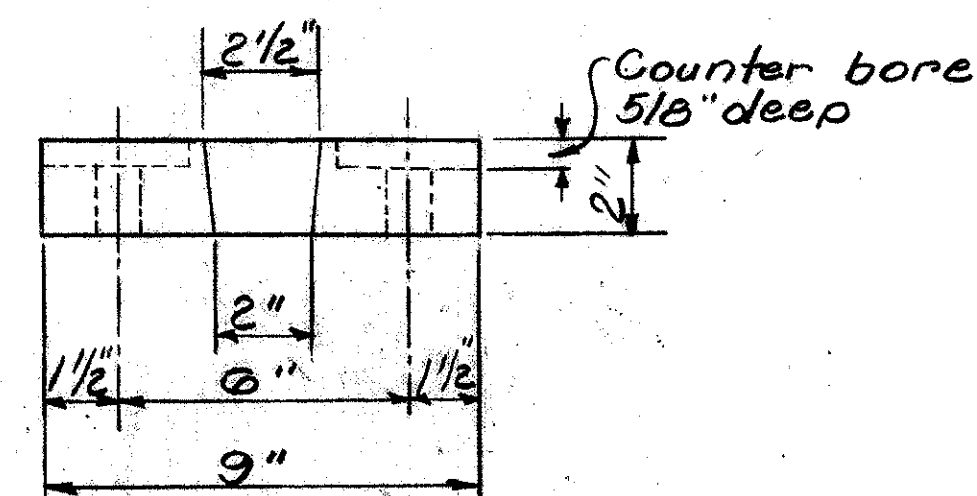
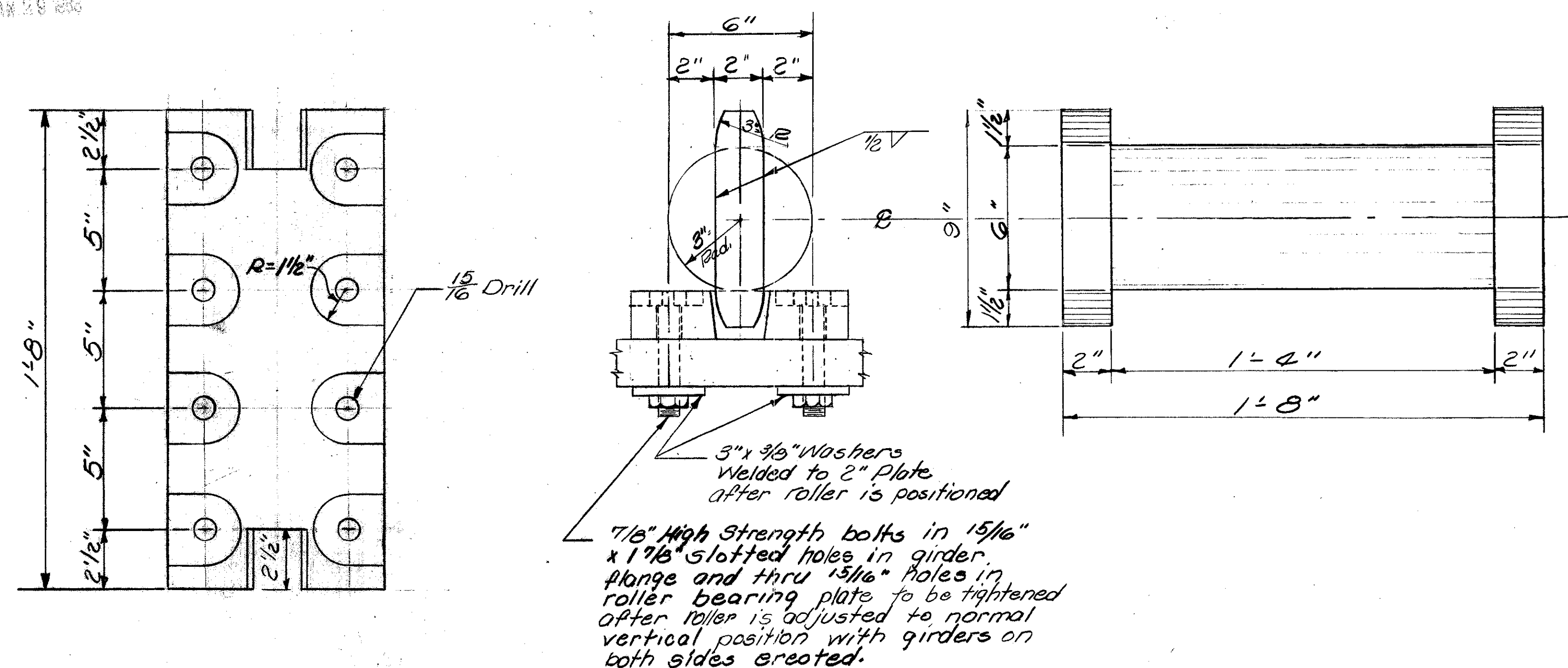


ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio					
GIRDER ELEVATIONS					
BRIDGE NO. ROS-35-2532L U.S.R. 35 OVER SCIOTO RIVER					
ROSS COUNTY U.S.R. 35 STA. 1337+08.99 TO STA. 1349+94.69					
SCALE	DATE				
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
WIC/PJM	SHK/WL				10/29/64

RECEIVED
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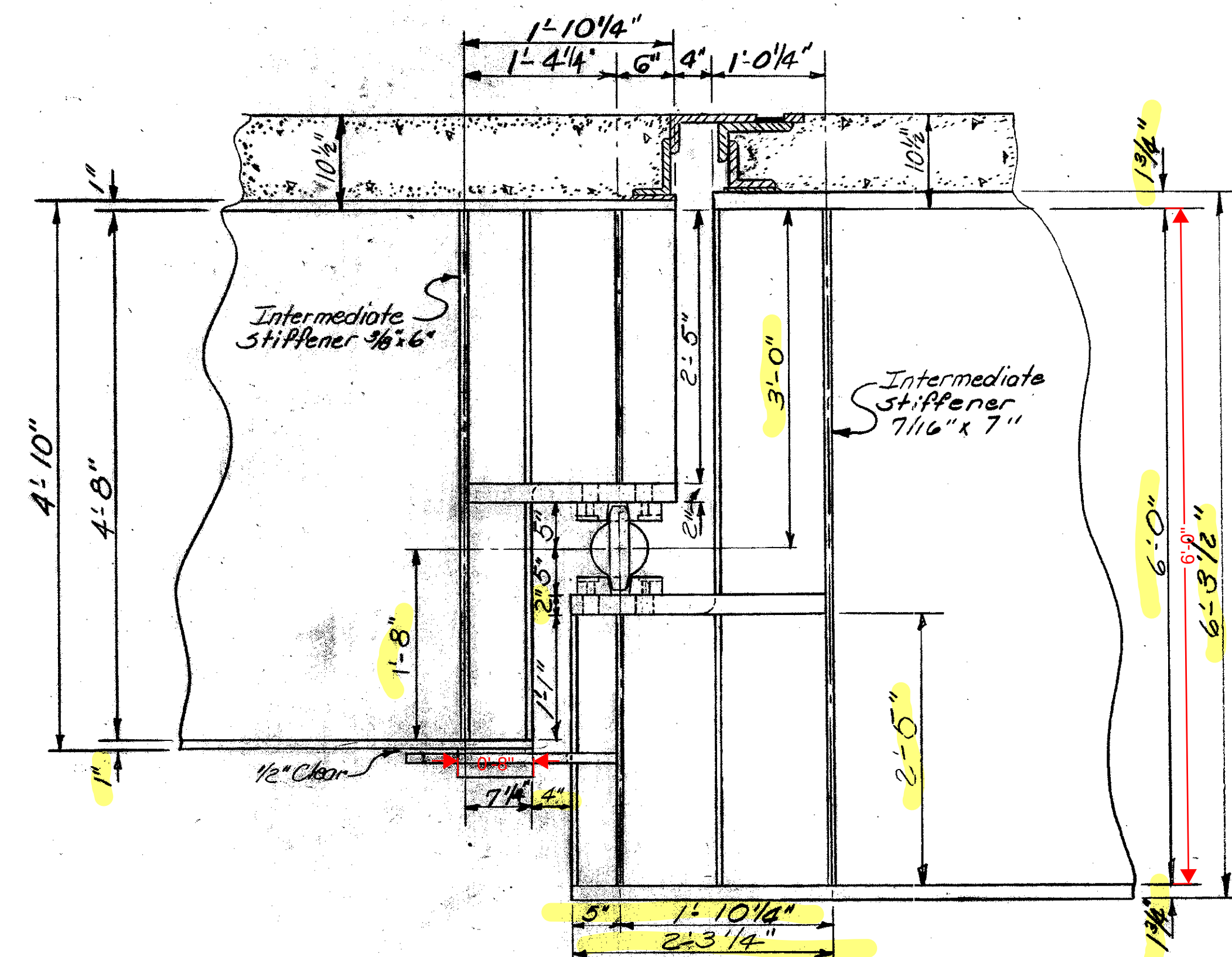
FED. RD. DIVISION	STATE	PROJECT	134 225
2	OHIO		

ROSS COUNTY
ROS-35-25.05



ROLLER DETAILS

ROLLER BEARING PLATE



HINGE ASSEMBLY

DEFLECTION AND CAMBER											
INTERIOR GIRDERS							EXTERIOR GIRDERS				
SPAN	DISTANCE FROM E BEARING	DEFLECTION DUE TO WEIGHT OF STEEL	DEFLECTION DUE TO REMAINING DEAD LOAD	CONVEXITY REQUIRED FOR VERTICAL CURVE	SUM OF DEFLECTION AND CONVEXITY	REQUIRED CAMBER	DEFLECTION DUE TO WEIGHT OF STEEL	DEFLECTION DUE TO REMAINING DEAD LOAD	CONVEXITY REQUIRED FOR VERTICAL CURVE	SUM OF DEFLECTION AND CONVEXITY	REQUIRED CAMBER
1ST SPAN	23.40'	.15"	.44"	—	.59"	5/8"	.15"	.53"	—	.68"	3/4"
	46.80'	.17"	.50"	—	.67"	5/8"	.17"	.61"	—	.78"	3/4"
	70.20'	.07"	.22"	—	.29"	1/4"	.07"	.26"	—	.33"	3/8"
	29.25'	.05"	.14"	—	.19"	1/4"	.05"	.16"	—	.21"	1/4"
2ND SPAN	58.50'	.22"	.65"	—	.87"	7/8"	.22"	.78"	—	1.00"	1"
	87.75'	.02"	.07"	—	.09"	1/8"	.02"	.08"	—	0.10"	1/8"
3RD SPAN	29.25'	.05"	.16"	—	.21"	1/4"	.05"	.19"	—	0.24"	1/4"
	58.50'	.18"	.53"	—	.71"	3/4"	.18"	.64"	—	0.82"	7/8"
	87.75'	.06"	.17"	—	.23"	1/4"	.06"	.20"	—	0.26"	1/4"
4TH SPAN	29.25'	.04"	.13"	.24"	.41"	3/8"	.04"	.16"	.24"	0.44"	1/2"
	58.50'	.16"	.47"	.33"	.96"	1"	.16"	.57"	.33"	1.06"	1"
	87.75'	.04"	.12"	.24"	.40"	3/8"	.04"	.14"	.24"	0.42"	3/8"
5TH SPAN	23.40'	.01"	.11"	.23"	.35"	3/8"	.01"	.13"	.23"	0.37"	3/8"
	46.80'	.10"	.48"	.35"	.93"	7/8"	.10"	.57"	.35"	1.02"	1"
	70.20'	.10"	.54"	.37"	1.01"	1"	.10"	.67"	.37"	1.14"	1 1/8"
	93.60'	-.06"	.19"	.29"	.42"	3/8"	-.06"	.23"	.29"	0.46"	1/2"
6TH SPAN	35.00'	.19"	.32"	.35"	.86"	7/8"	.19"	.38"	.35"	0.92"	7/8"
	70.00'	.30"	.54"	.47"	1.31"	1 1/4"	.30"	.65"	.47"	1.42"	1 3/8"
	105.00'	.19"	.32"	.35"	.86"	7/8"	.19"	.38"	.35"	0.92"	7/8"

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio							
ROLLER DETAILS AND DEFLECTION AND CAMBER BRIDGE NO ROS-35-2532 L U.S.R. 35 OVER SCIOTO RIVER ROSS COUNTY U.S.R. 35 STA. 1337+05.99 TO STA. 1349+94.69 SCALE DATE							
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
W.C.	R.J.M.		F.H.S.	W.C.	10/21/64		

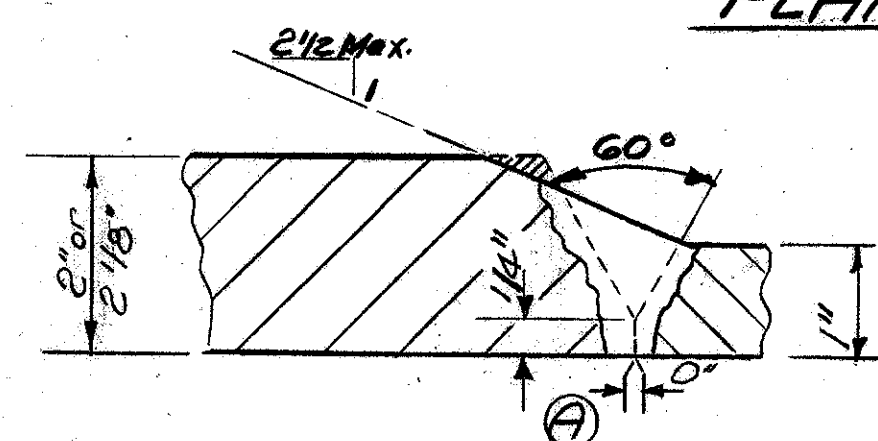
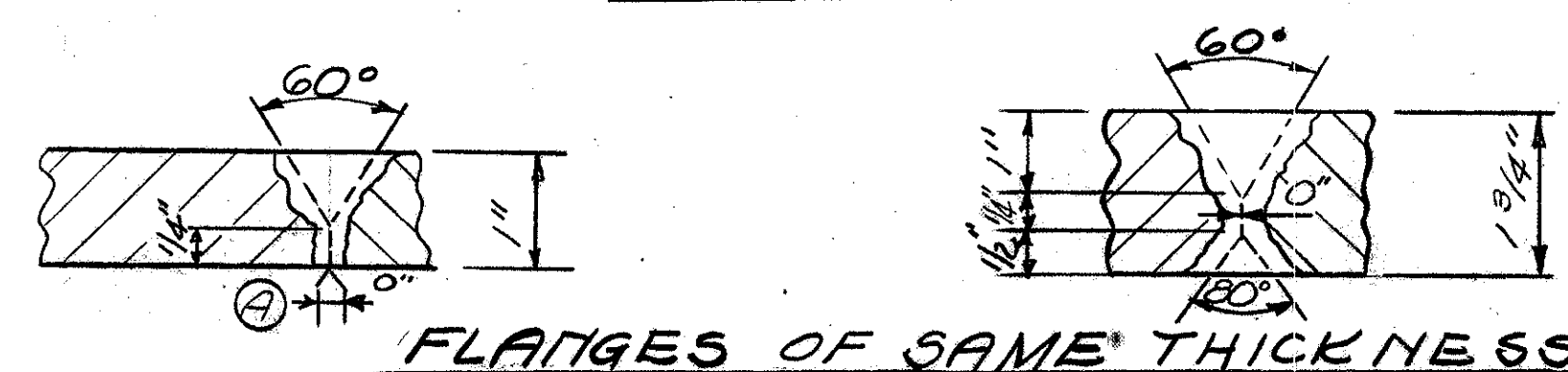
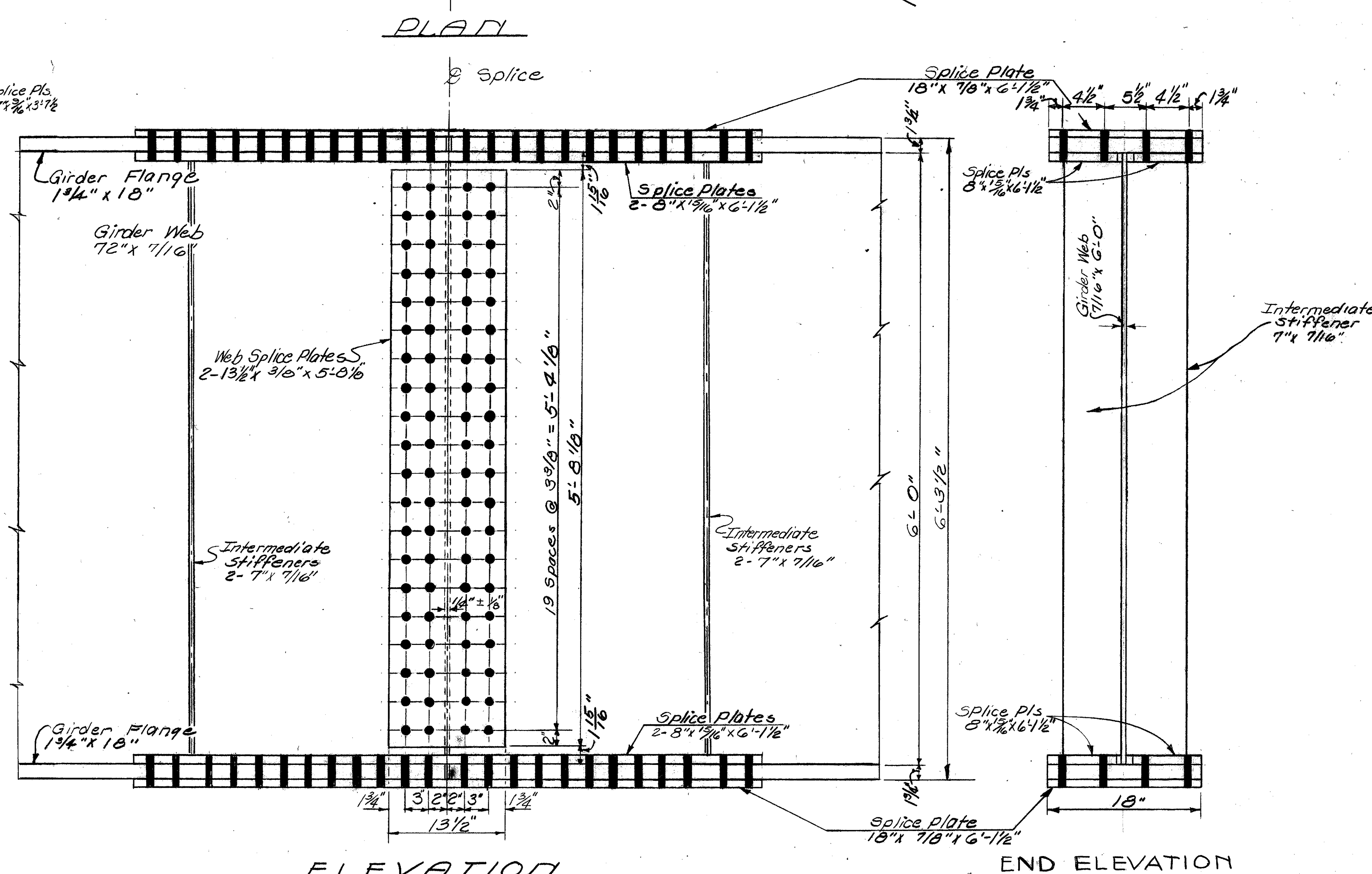
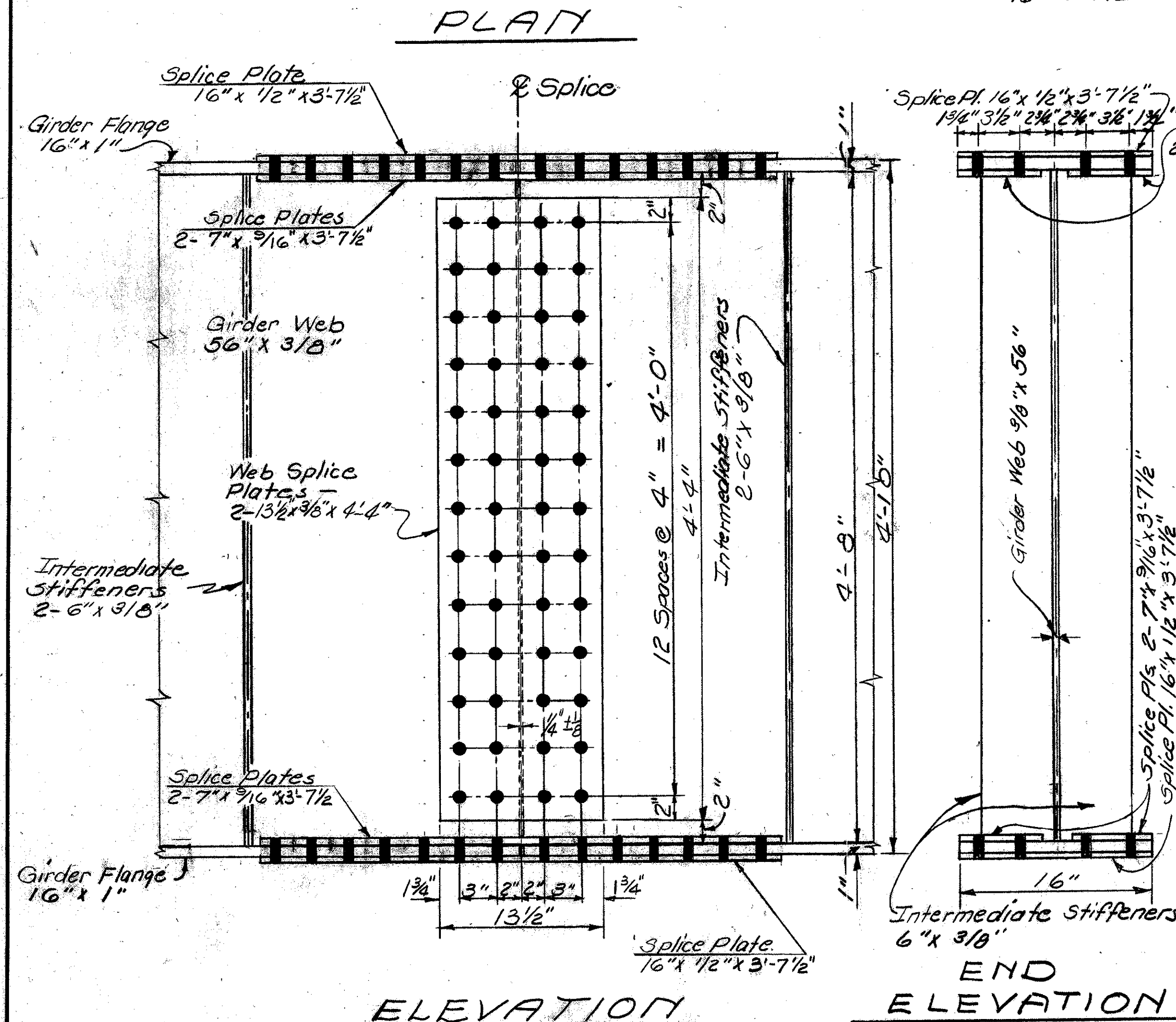
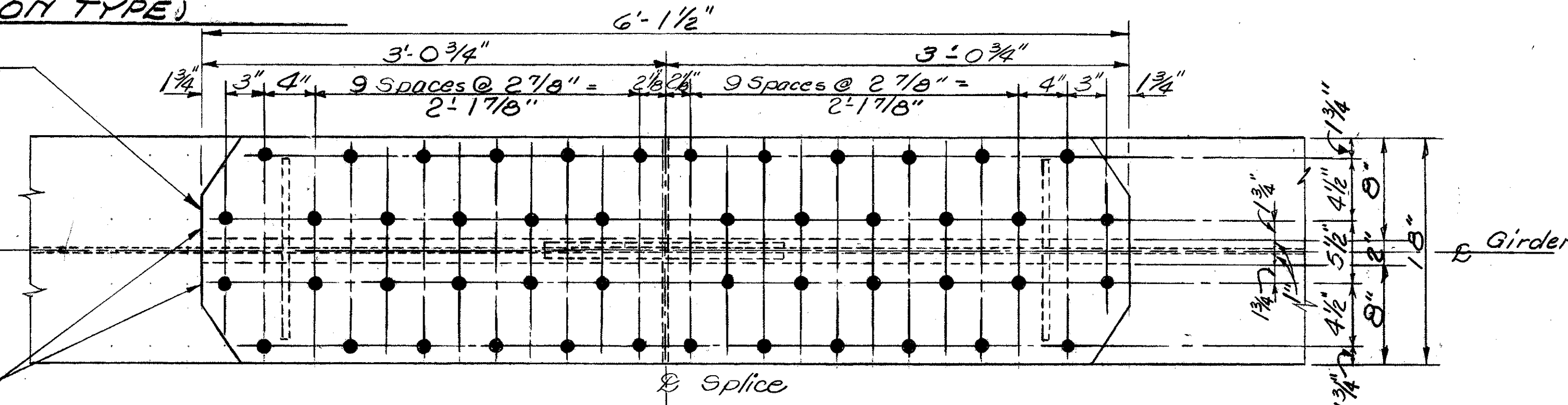
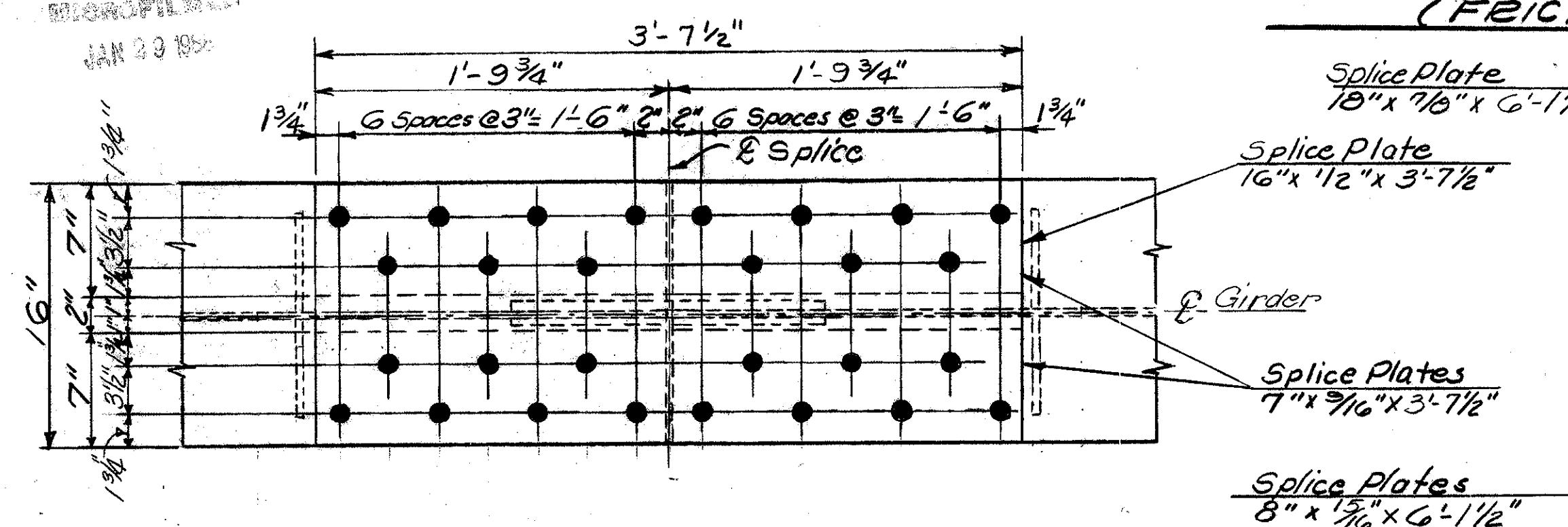
REPRODUCED
JAN 29 1955

FIELD SPLICE DETAILS (FEIGNION TYPE)

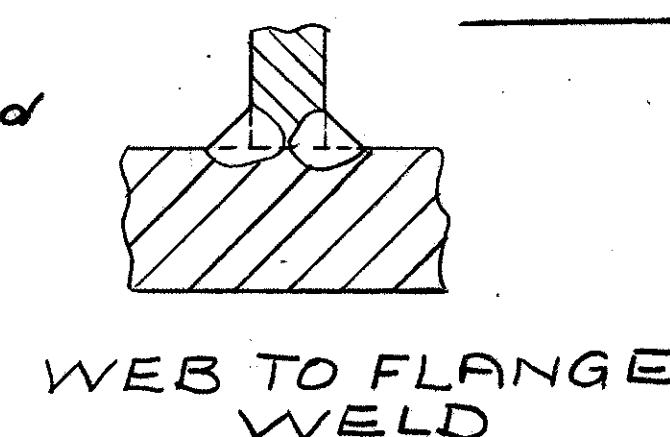
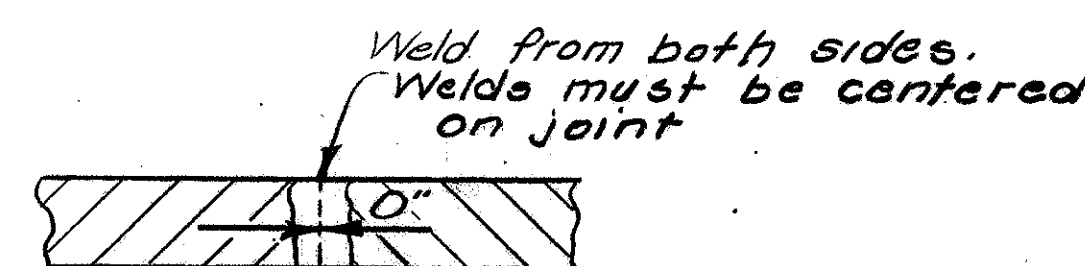
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

135
225

ROSS COUNTY
ROS-35-25.05



WELDED JOINTS
Automatic Submerged Arc Process
(G) All flange butt-welds shall be ground flush.
Note (A) Weld after placing at least one pass on other side.
Optional shop splices will be permitted in the webs and flanges of girders but their location shall be submitted to the Director for approval.



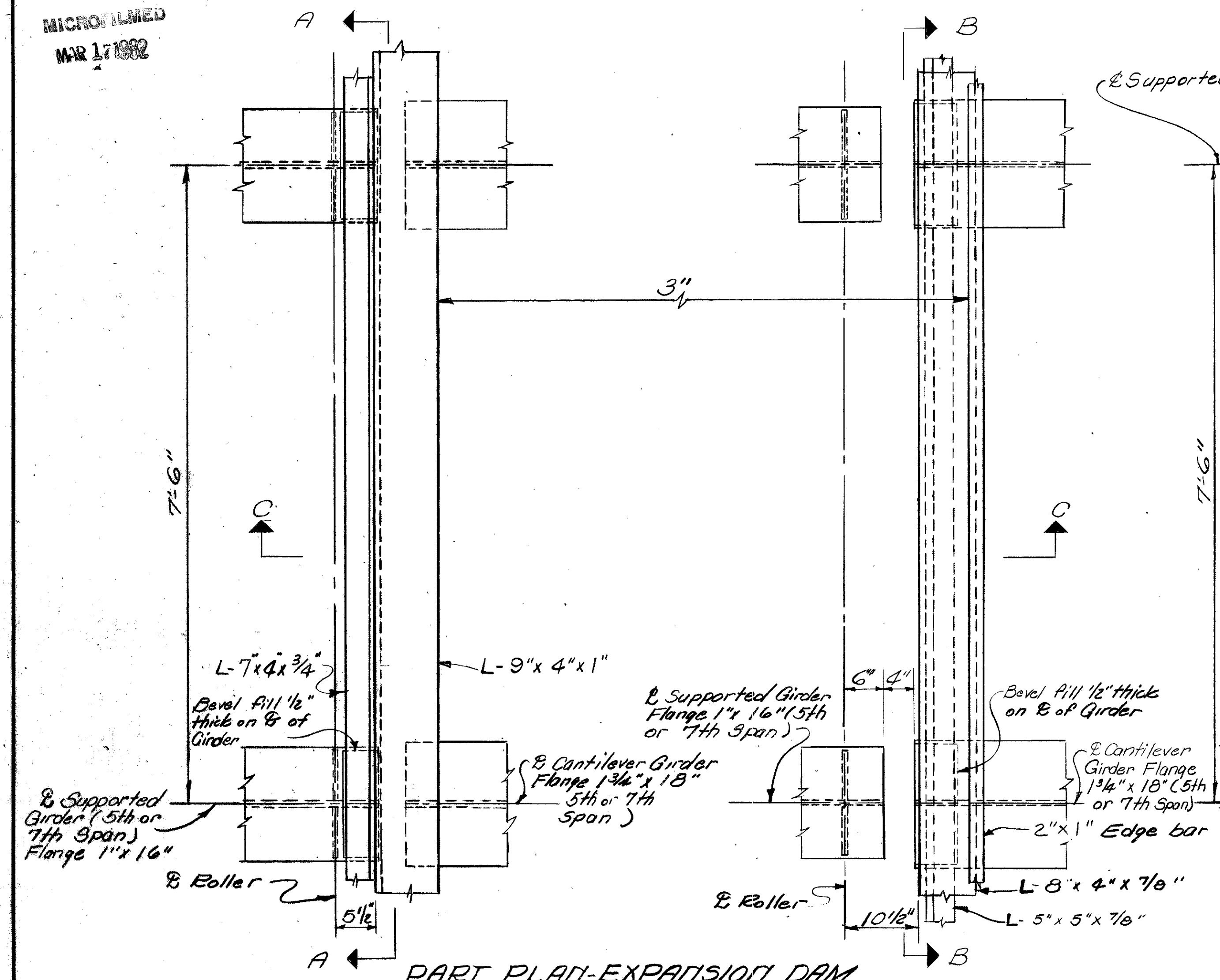
Notes: See Sheet No. 126 for Field Splice Notes

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Saint Street Chillicothe, Ohio	
GIRDER SPLICE DETAILS	
BRIDGE NO. ROS-35-2532 L	
U.S.R. 35 OVER SCIOTO RIVER	
ROSS COUNTY	U.S.R. 35
STA. 1337+08.99 TO STA. 1349+94.69	
SCALE	DATE
DESIGNED	DRAWN
TRACED	CHECKED
REVIEWED	DATE
WIC	P.J.M.

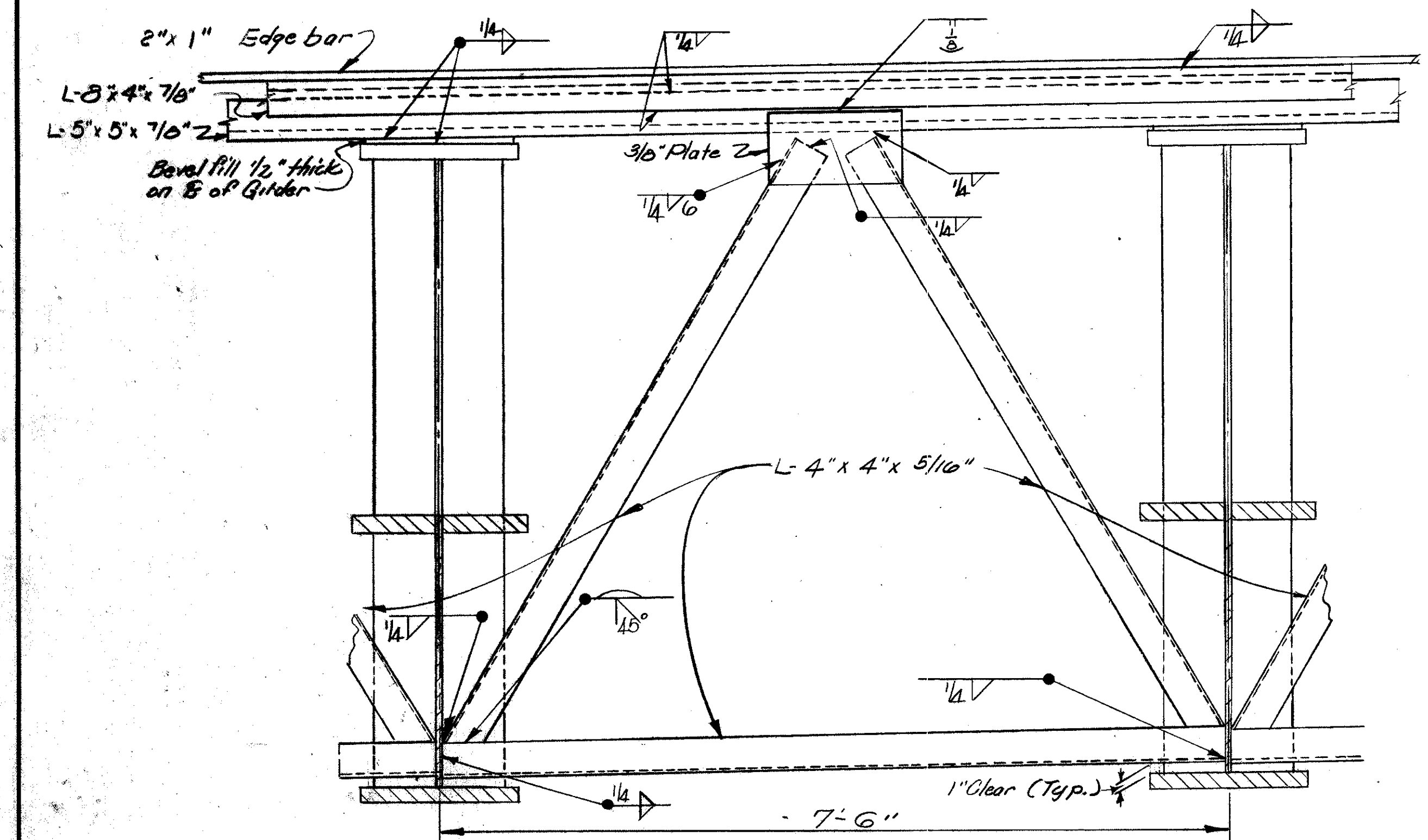
MICROFILMED
MAR 17 1982

FED. RD. DIVISION	STATE	PROJECT	137 225
2	OHIO		

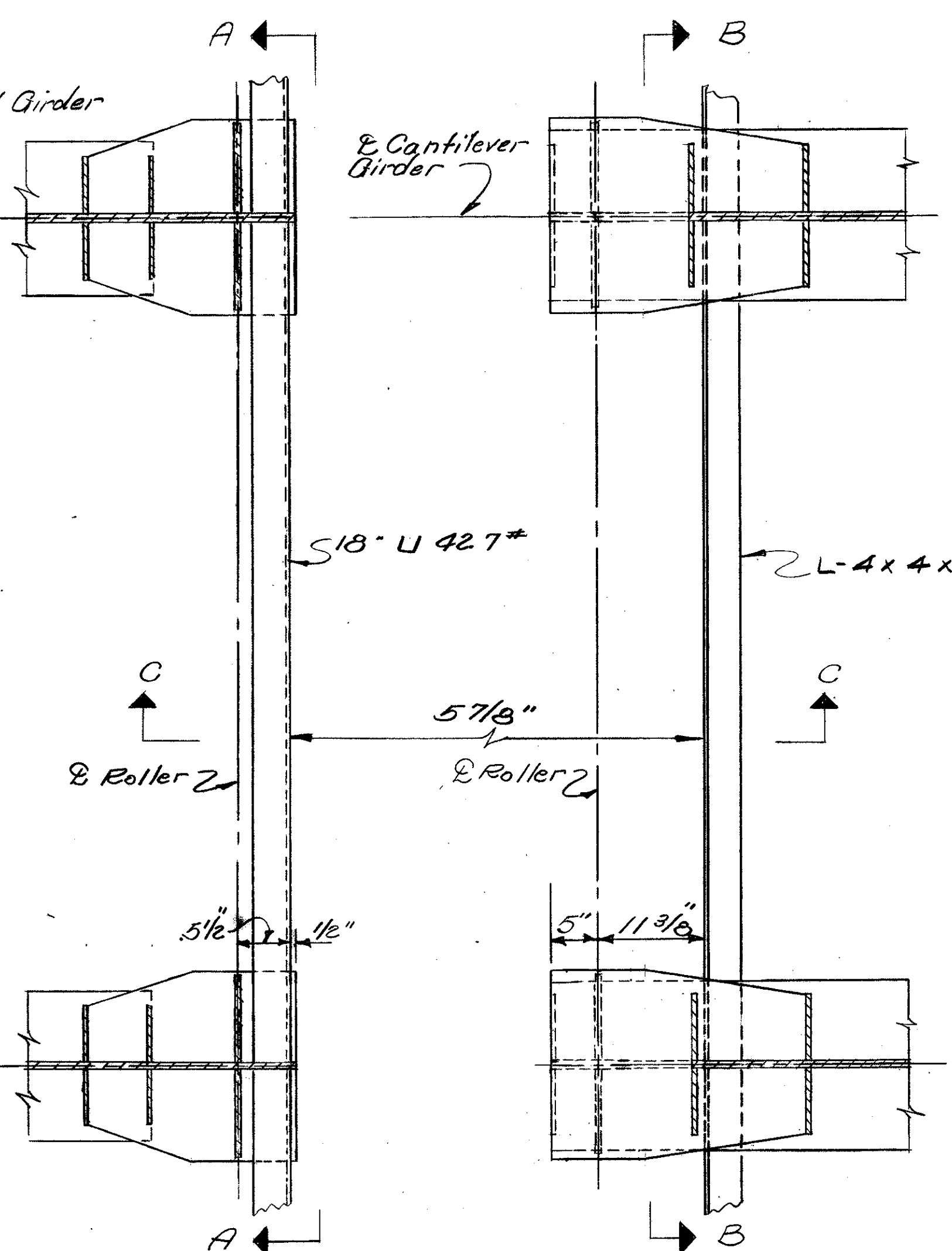
ROSS COUNTY
ROS-35-25.05



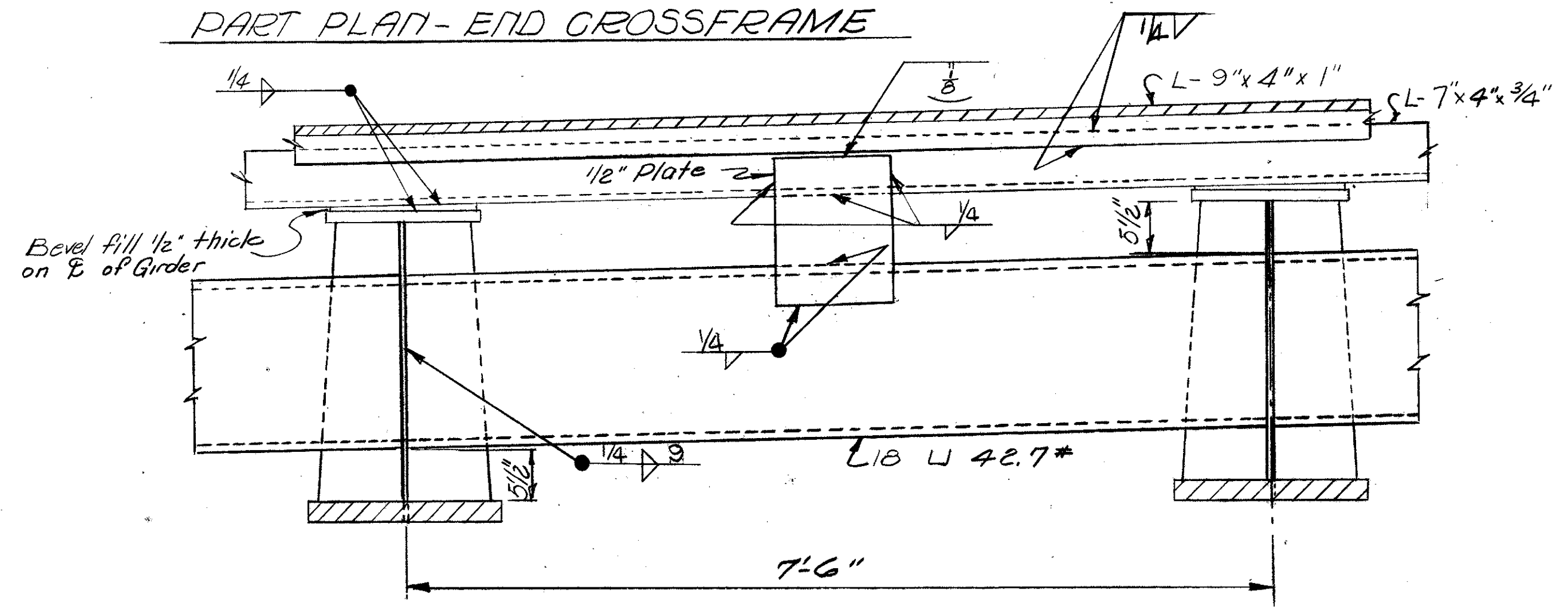
PART PLAN-EXPANSION DAM



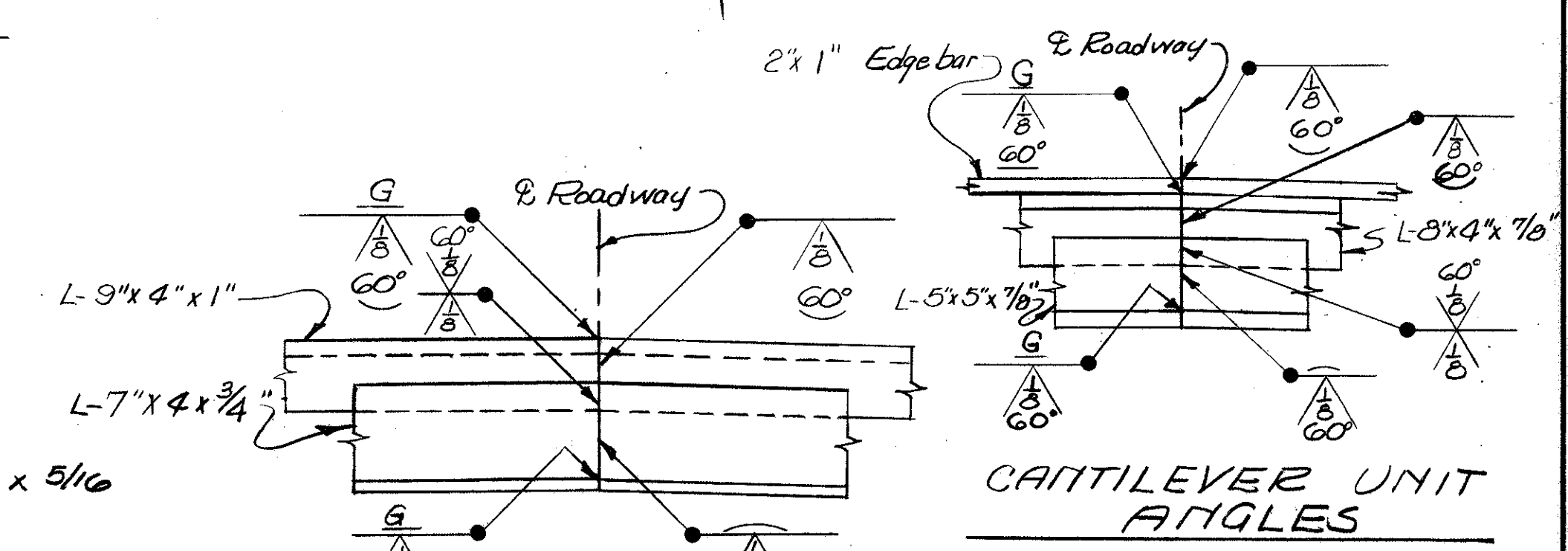
SECTION B-B



PART PLAN-END CROSSFRAME

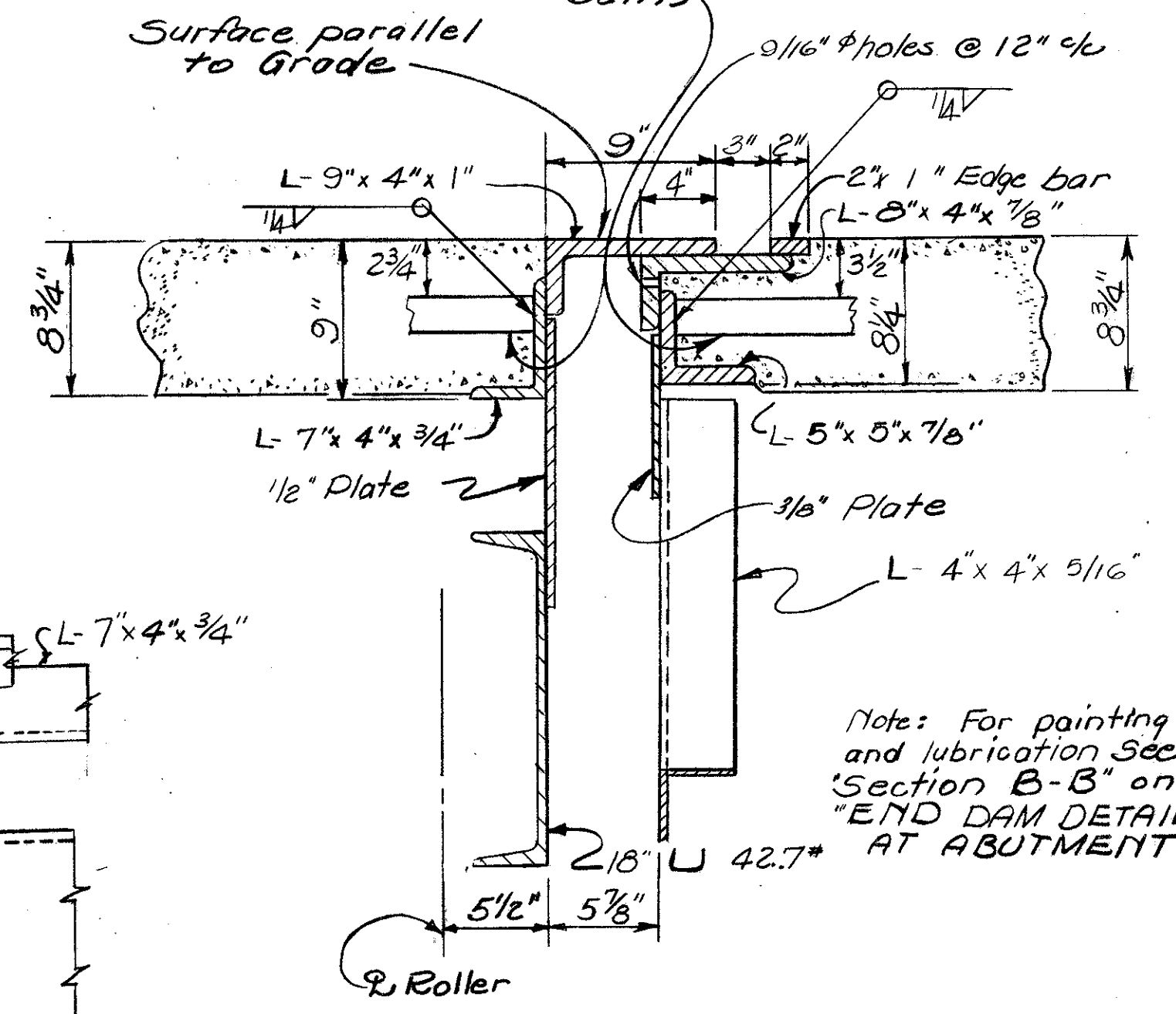


SECTION A-A



SUPPORTED UNIT ANGLES
WELDED BUTT-JOINT IN SUPERSTRUCTURE
END DAM ANGLES AT E OF ROADWAY

Anchor bars 2"x1/2"x1'-6"
@ 12" o/c placed parallel to
longitudinal reinforcing steel
(Both sides of Expansion
Dam)



SECTION C-C

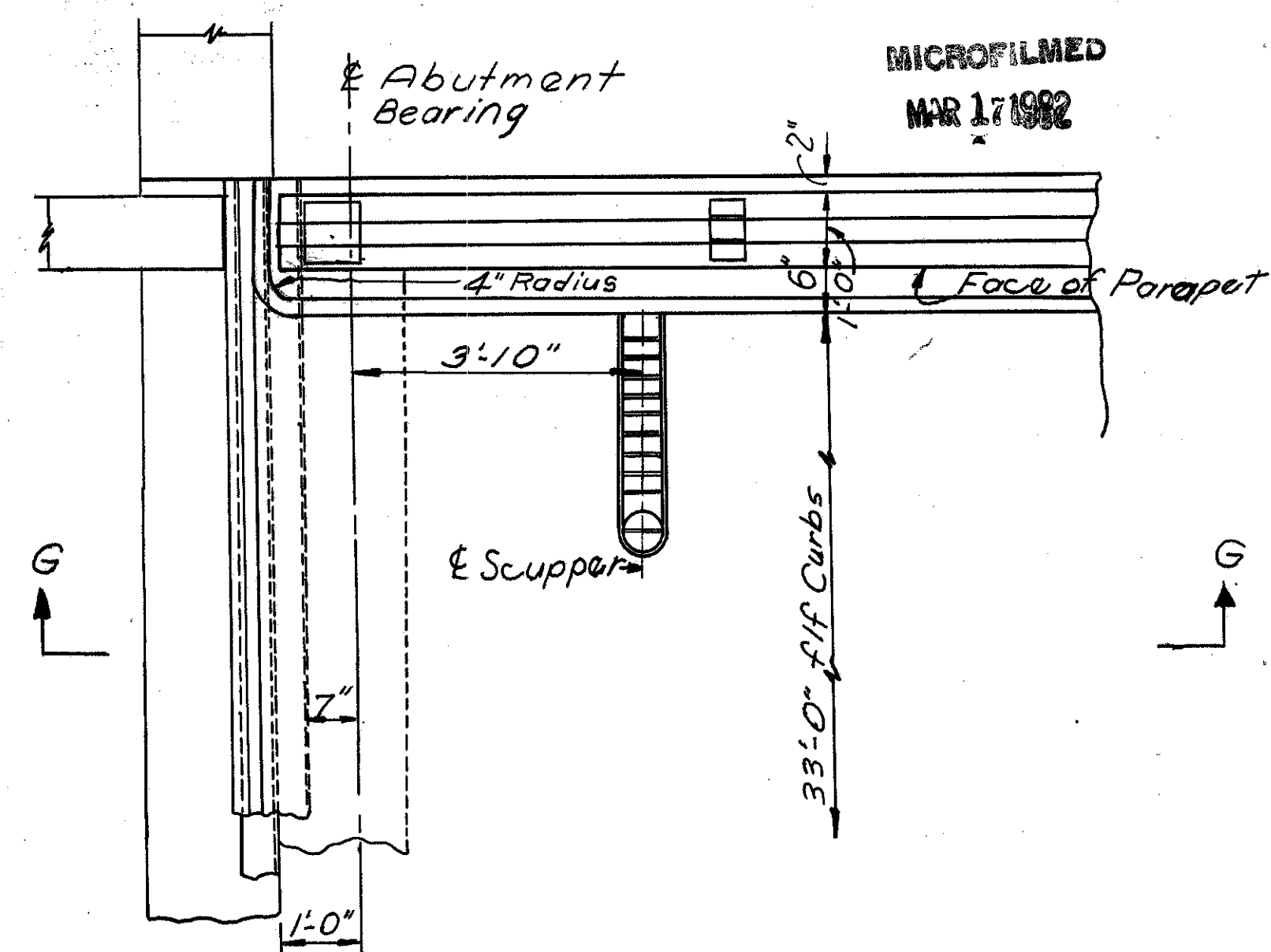
Note: For painting
and lubrication see
Section B-B on
"END DAM DETAILS
AT ABUTMENT"

ELMER S. BARRETT ASSOCIATES Consulting Engineers 245-249 S. Paint Street Chillicothe, Ohio						
END DAM DETAILS AT HINGE						
BRIDGE NO. ROS-35-2532L						
U.S.R. 35 OVER SCOTO RIVER						
ROSS COUNTY U.S.R. 35						
STA. 1337+08.99 TO STA. 1349+94.69						
SCALE DATE						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WIC	RJM		JHB	WIK	10/29/04	

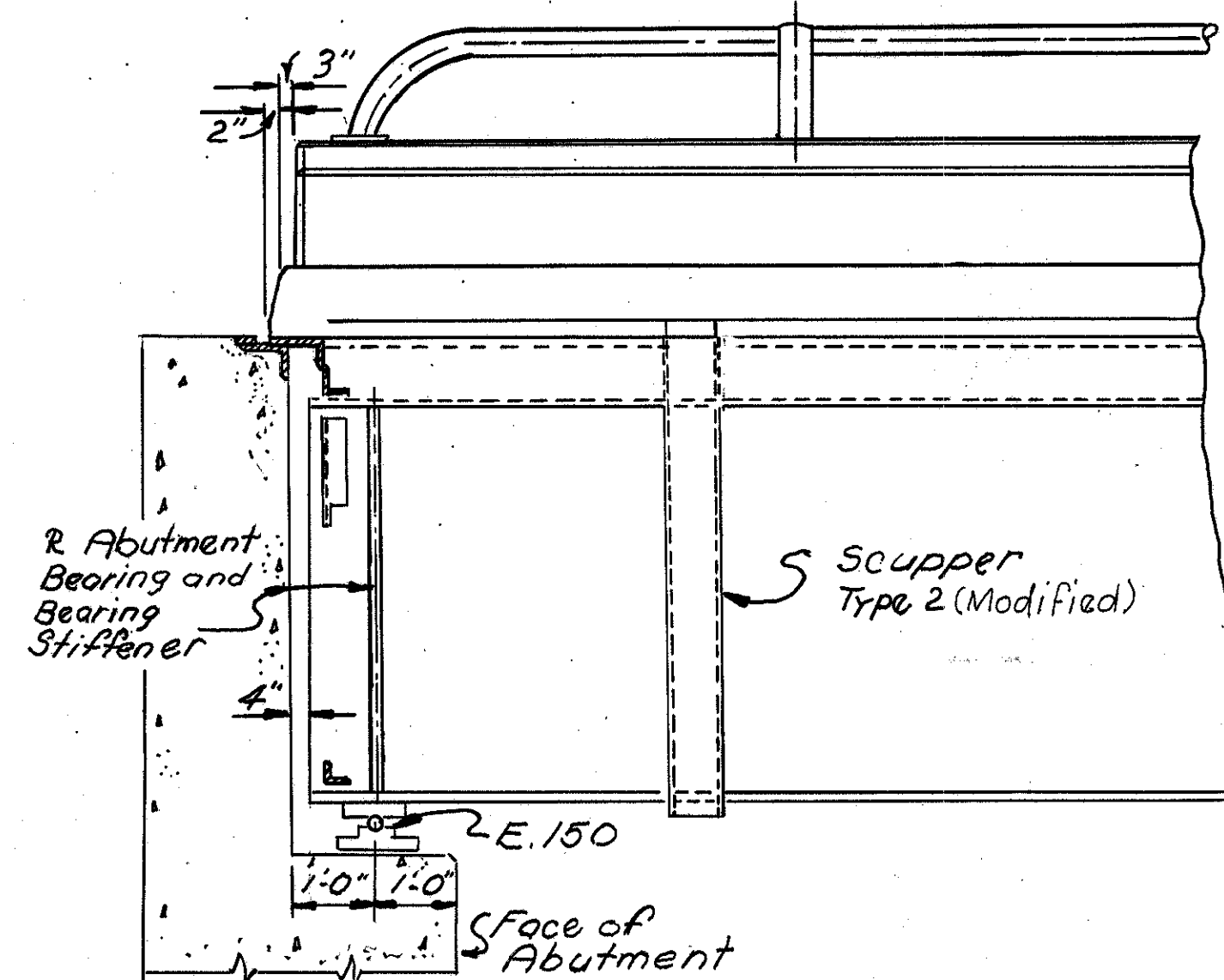
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

138
225

ROSS COUNTY
ROS-35-25.05



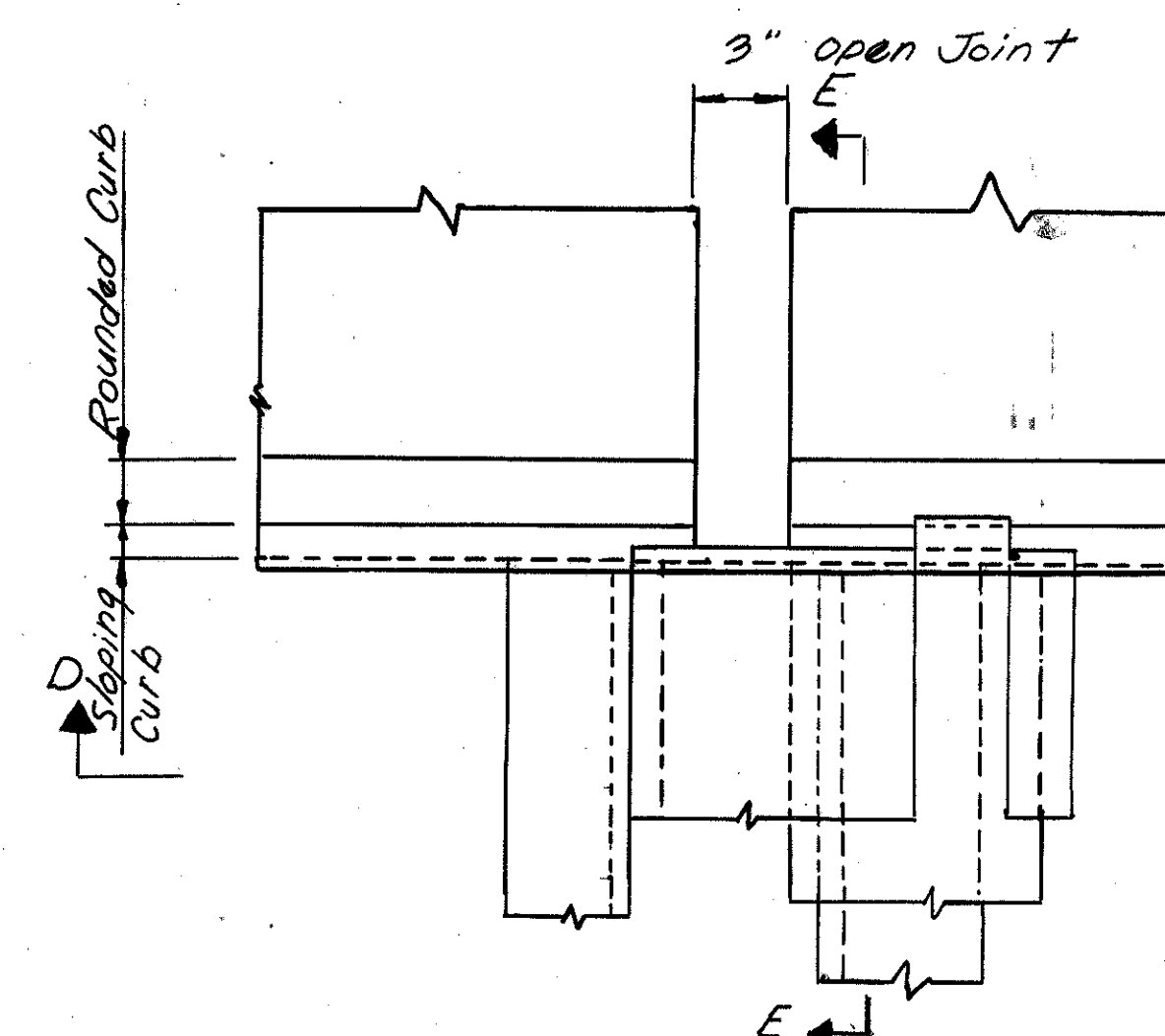
PART PLAN AT ABUTMENT



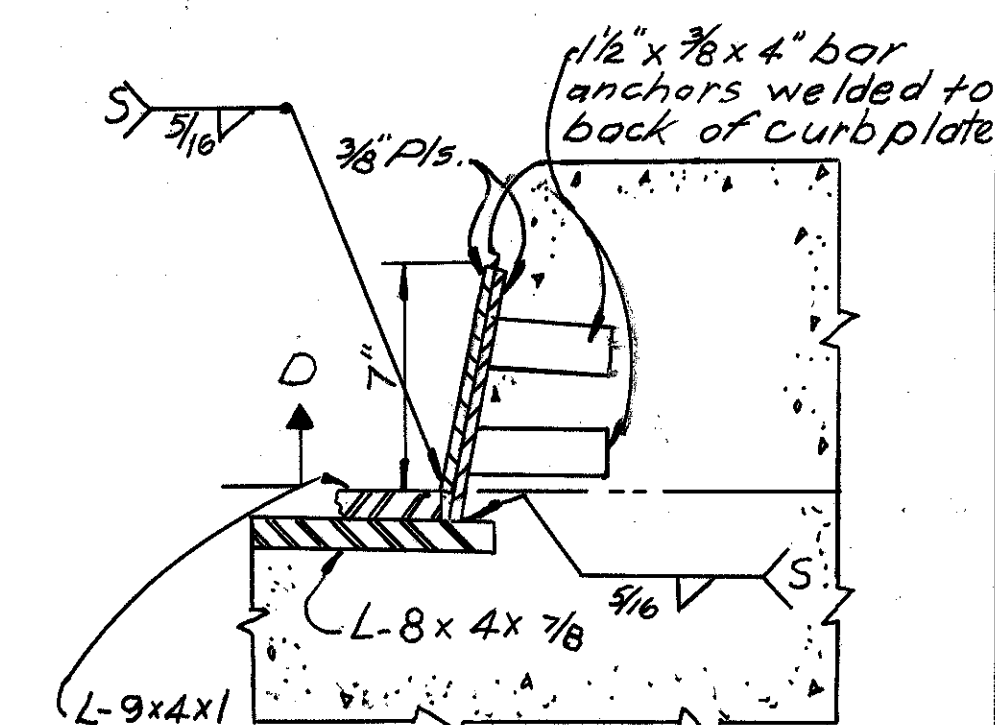
SECTION G-G

NOTES

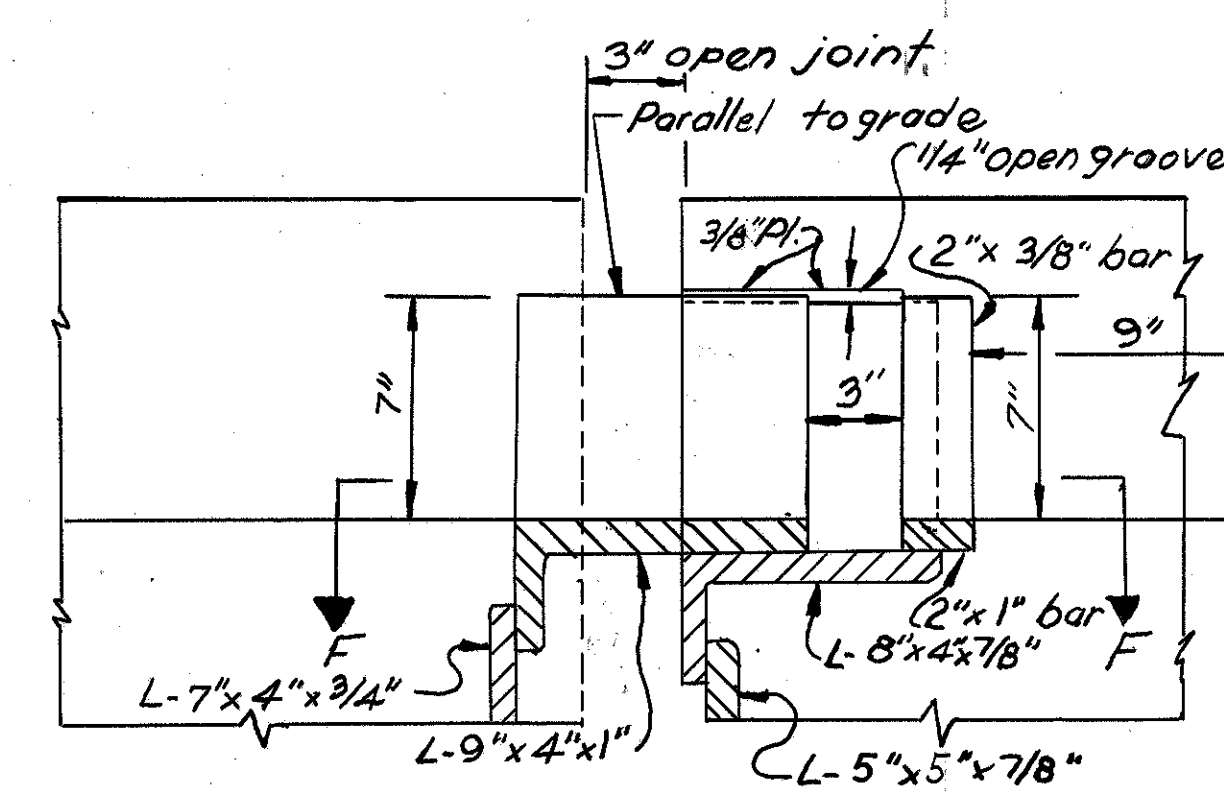
See Std. Dwg. SD-1-65 for Scupper details -
modify dimensions to suit installation.



PART PLAN



SECTION E-E



SECTION D-D

EXPANSION DAM AT HINGE BEARING
CURB PLATE DETAILS

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED

GUTTER AND SCUPPER DETAILS
EXPANSION DAM DETAILS
BRIDGE NO. ROS-35-2532 L
U.S.R. 35 OVER SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA 1337+08.99 TO STA 1349+94.69

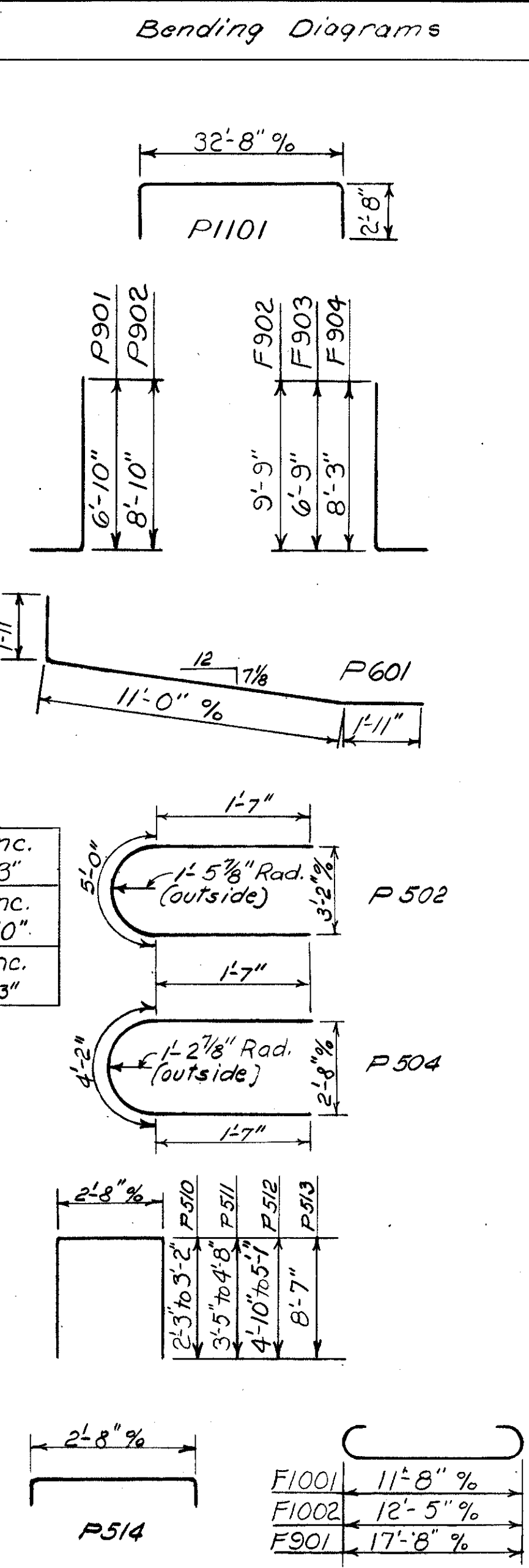
MICROFILMED
MAR 17 1982

REINFORCING STEEL LIST

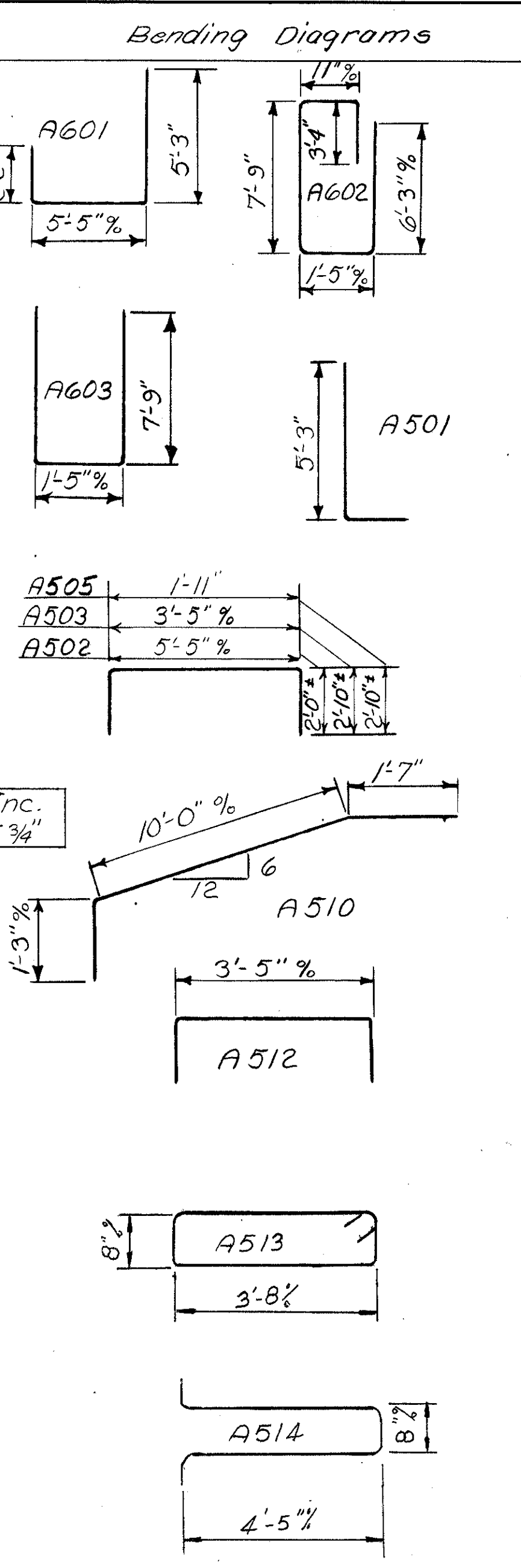
FED. RD. DIVISION	STATE	PROJECT	140 225
2	OHIO		

ROSS COUNTY
ROS-35-25.05

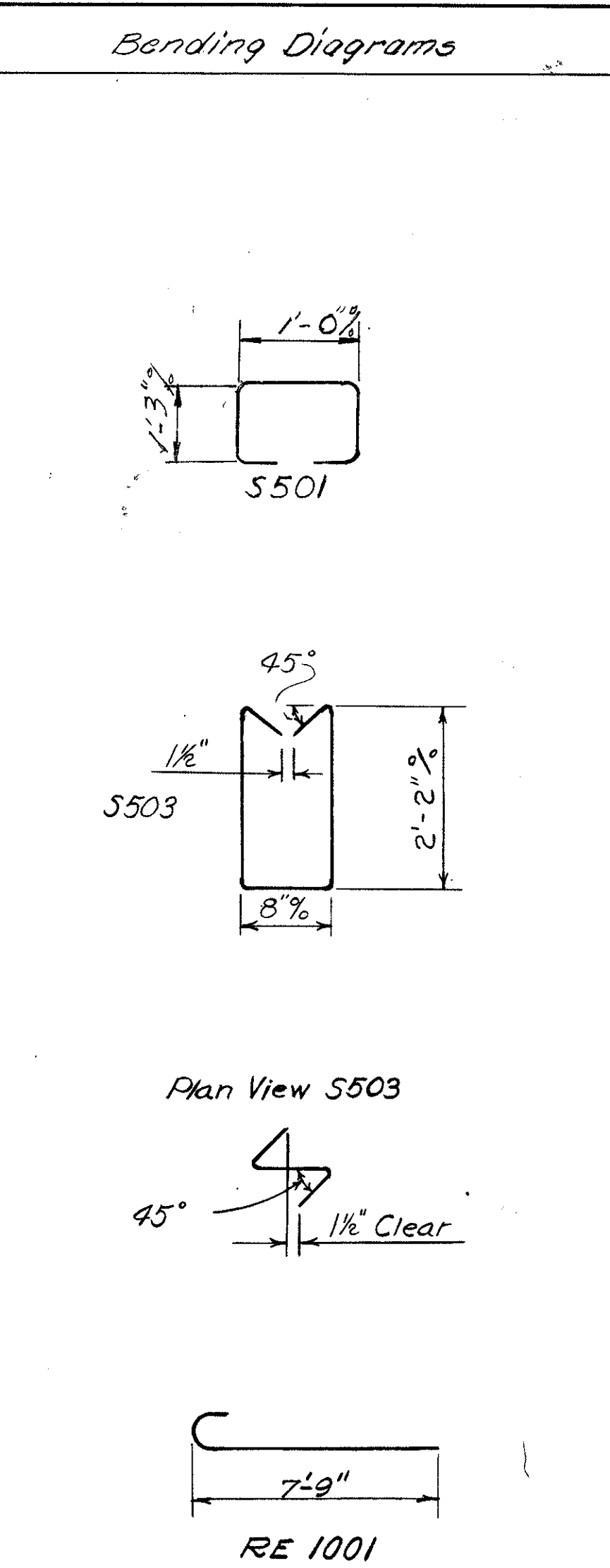
Bar Number	Number Required	Length	Shape	Weight
TEN PIERS				
P1101	60	37'-4"		11,301
P1102	40	32'-5"		6,889
P901	160	7'-10"		4,261
P902	160	9'-10"		5,349
P903	32	26'-7"		2,892
P904	32	25'-9"		2,802
P905	64	26'-0"		5,658
P906	32	27'-5"		2,983
P601	40	14'-8"		881
P501	66	10'-8"		734
P502	66	8'-2"		562
P503	240	10'-8"		2,670
P504	240	7'-4"		1,836
P505	20	13'-8"		285
P506	20	18'-9"		391
P507	20	24'-3"		506
P508	20	29'-10"		622
P509	20	32'-6"		678
P510	40 Series of 8 Bars	6'-11" to 8'-9"		2,614
P511	40 Series of 4 Bars	9'-3" to 11'-9"		1,752
P512	40 Series of 3 Bars	12'-1" to 12'-7"		1,544
P513	90	19'-7"		1,838
P514	60	3'-8"		229
F1001	232	14'-6"		14,415
F1002	58	15'-3"		3,806
F901	160	20'-2"		10,971
F902	96	10'-9"		3,509
F903	192	7'-9"		5,059
F904	32	9'-3"		1,006
TOTAL TEN PIERS				98,703



Bar Number	Number Required	Length	Shape	Weight
ONE ABUTMENT				
A801	8	22'-1"		472
A802	3	25'-2"		202
A803	3	19'-0"		152
A601	34	12'-6"		638
A602	20	19'-1"		717
A603	8	16'-8"		200
A604	12	9'-5"		170
A605	44	9'-2"		606
A501	34	5'-9"		204
A502	34	9'-2"		325
A503	26	8'-10"		240
A504	16	32'-8"		545
A505	28	7'-4"		214
A506	4	5'-0"		21
A507	4	8'-3"		34
A508	4	12'-0"		50
A509	16	14'-0"		234
A510	4	12'-9"		53
A511	4 Series of 9 bars	5'-0" to 8'-10"		260
A512	25	4'-5"		115
A513	16	9'-2"		153
A514	28	10'-3"		299
TOTAL TWO ABUTMENTS				10,805



Bar Number	Number Required	Length	Shape	Weight
SUPERSTRUCTURE				
S701	1923	35'-8"		140,192
S601	1923	35'-8"		103,018
S602	2394	30'-3"		108,773
S603	441	30'-3"		20,313
S604	208	18'-11"		5,910
S605	260	30'-0"		11,716
S606	52	27'-11"		2,180
S501	1712	4'-6"		8,035
S503	1856	5'-7"		10,808
TOTAL SUPERSTRUCTURE				410,945
RAILING STEEL				
R501	16	9'-3"		
R502	432	16'-4"		
R503	16	13'-2"		
R504	16	13'-9"		
R505	80	17'-11"		
R506	32	18'-4"		
R507	32	14'-4"		
REPLACEMENT STEEL				
RE1101	1	8'-6"		
RE1001	1	8'-2"		
RE901	3	7'-10"		
RE801	1	7'-6"		
RE701	8	7'-2"		
RE601	13	6'-11"		
RE501	3	6'-7"		



NOTES

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, A501 is a No. 5 size bar and A1001 is a No. 10 size.

RAILING STEEL in the parapet wall is included in Item 517 Railing for payment.

ELMER S. BARRETT ASSOCIATES
Consulting Engineers
245-249 S. Paint Street Chillicothe, Ohio

REINFORCING STEEL LIST
BRIDGE No. ROS-35-2532 L
U.S.R. 35 over SCIOTO RIVER
ROSS COUNTY U.S.R. 35
STA. 1337+08.99 To STA. 1349+94.69

SCALE: DATE: 10/29/14

DESIGNED: WIC DRAWN: DER TRACED: DER CHECKED: JHJ REVIEWED: JHJ DATE: 10/29/14