

MICROFILMED  
MAR 18 1985

# STATE OF OHIO

JAN 3 1964  
GROUND PHOTOLAB

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	F-FG-1042(G)	

1  
161

ERI 6-7.31

## DEPARTMENT OF HIGHWAYS

F-FG-1042(G)

# ERI 6-7.31 ERIE COUNTY

## PERKINS TOWNSHIP

### GRADE SEPARATION WITH BALTIMORE & OHIO RAILROAD COMPANY

#### CONVENTIONAL SIGNS

Township Line	-----
Corporation Line	-----
Fence Line	-----
Guard Rail (existing)	-----
Guard Rail (proposed)	-----
Railroad	-----
Power Poles	-----
Telephone Poles	-----
Trees or Stumps	-----
Property Line	-----
Right of Way with Limited Access	-----
Right of Way without Limited Access	-----
Existing Right of Way	-----

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ERI-2-0813

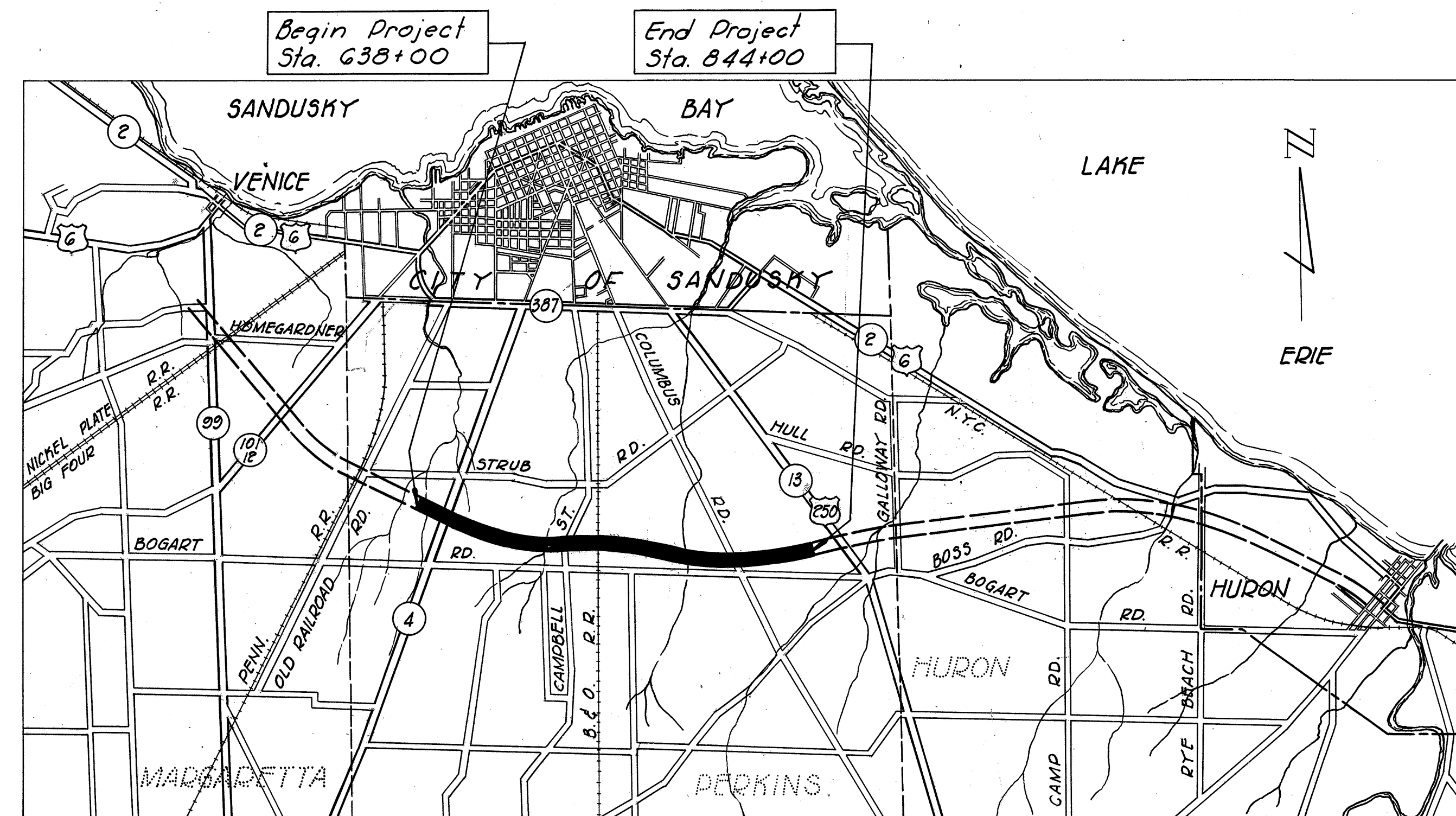
#### LINE DATA

F-1042(G): Sta. 638+00 to 722+00 = 8,400.00 Lin. Ft.  
Sta. 748+00 to 844+00 = 9,600.00 Lin. Ft.  
Length of Project F-1042(G) = 18,000.00 Lin. Ft. or 3.409 Miles

FG-1042(G): Sta. 722+00 to 748+00 = 2,600.00 Lin. Ft.  
Length of Project FG-1042(G) = 2,600.00 Lin. Ft. or 0.492 Miles  
Total Length of Project = 20,600.00 Lin. Ft. or 3.901 Miles

Sta. 637+00 to 722+00, U.S.G = 8,500.00 Lin. Ft.  
Sta. 748+00 to 845+00, U.S.G = 9,700.00 Lin. Ft.  
Sta. 35+75 to 63+00, S.R.4 = 2,725.00 Lin. Ft.  
Sta. 42+00 to 61+79.79, Campbell St. = 1,979.79 Lin. Ft.  
Length of Work F-1042(G) = 22,904.79 Lin. Ft. or 4.338 Miles

Sta. 722+00 to 748+00, U.S.G = 2,600.00 Lin. Ft.  
Length of Work FG-1042(G) = 2,600.00 Lin. Ft. or 0.492 Miles  
Total Length of Work = 25,504.79 Lin. Ft. or 4.830 Miles



Delivery Point: B&O. RR. at Bogart Road

#### LOCATION PLAN

SCALE IN MILES  
0 1 2 3

Portion to be improved...  
State Roads.....  
Other Roads.....

Average Haul: 1.2 Miles

Revision on sheet 50 (6-20-61) AREB.

Plan  
Profile: Horizontal  
Profile: Vertical  
Cross Section

SURVEY AND PLANS BY  
SANZENBACHER, MILLER AND BRIGHAM  
TOLEDO, OHIO

**LIMITED ACCESS**  
This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

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 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 this highway and that provisions for the maintenance and safety of traffic will be as set forth on these plans and estimates.

- Approved Date 12-13-60 *E. S. Preston* Division Deputy Director
- Approved Date 11-1-60 *George E. Neefzer* Deputy Director of Planning and Programming
- Approved Date 10-20-60 *W. J. Brennan* Engineer of Bridges
- Approved Date 10-25-60 *W. J. Brennan* Engineer of Location and Design
- Approved Date 10-25-60 *Clarence McCaughy* Deputy Director of Design and Construction
- Approved Date 11-1-60 *John Berry* First Assistant Director
- Approved Date 11-1-60 *E. S. Preston* Director of Highways

JAN 3 1964  
GROUND PHOTOLAB

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

Approved \_\_\_\_\_  
Division Engineer \_\_\_\_\_ Date \_\_\_\_\_

FILE NO.	ERI 6-7.31
Date of Letting	196
Contract No.	

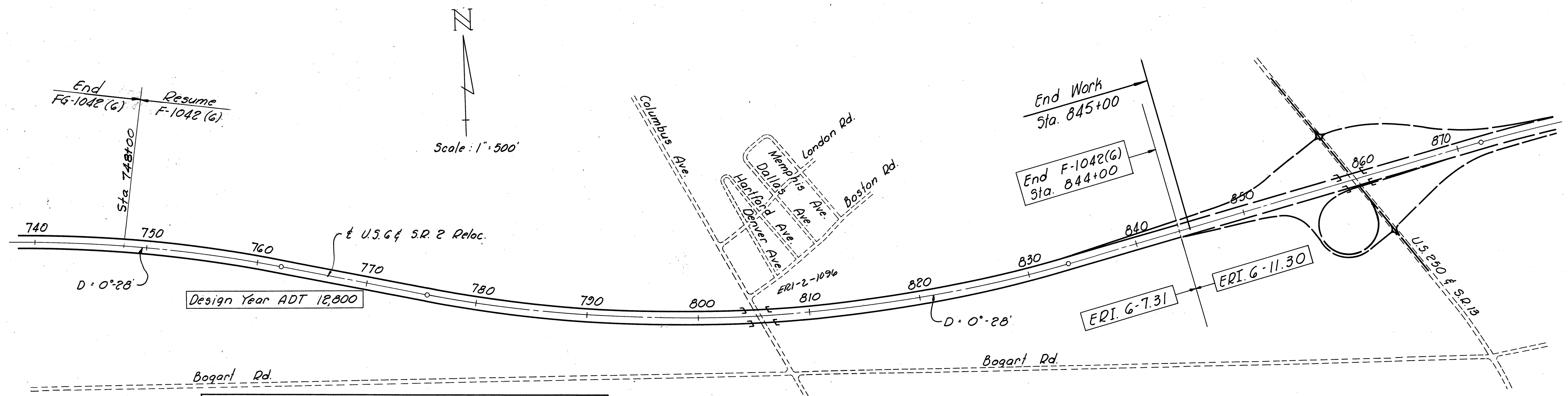
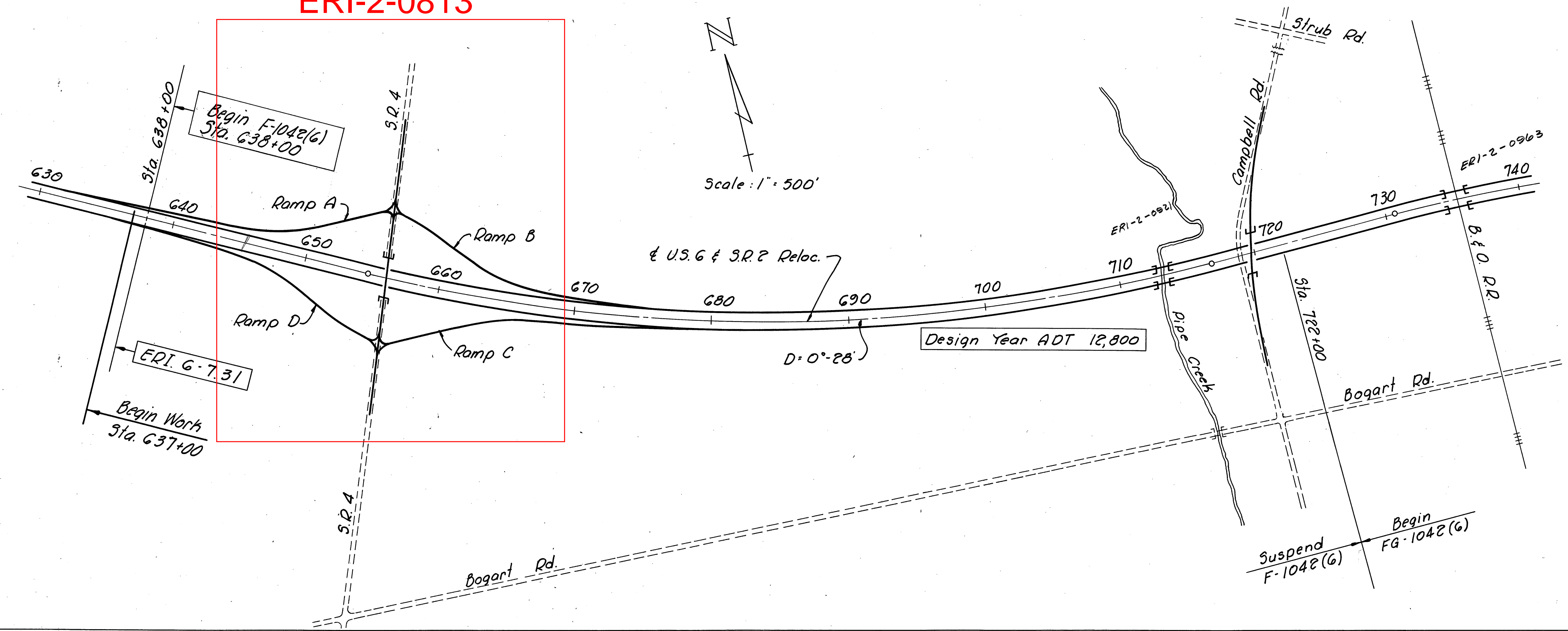
STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	
AS-1-54	12-1-54	L-3	4-1-50	5-27 PC.3	2-20-45	I-15 No.1	5-21-59	3-101	12-2-59
RB-1-55	2-2-59	L-3-A	4-1-50	3-27 PC.4	1-4-54	I-15 No.2-A	8-17-60	B-219	Rev. 3-12-59
AR-1-57	2-2-59	RT-1	7-15-58	SP-53	11-25-58	I-21-23	8-1-56	M-206.6(b)	5-25-56
CSB-2-56	Shits. 223	2-2-59	T-35	1-2-56	1-1,2,3,4 & 5	4-24-58	G-7.07	6-1-56	18
F-2	10-1-58	B-T-50-70-71E	10-1-47	I-B.C.B. P.2-A&B	3-2-59	HW-A&B	7-15-57	I-124	1-11-56
F-3	9-1-59	B-T-71R	3-2-53	I-B.C.B. No.4	7-1-58	HW-C	7-15-57		
DR-1	1-3-55	LJ No.1	7-1-55	I-B.C.B. No.6	1-26-59	I-B.C.B. No.5	7-1-58		
L-1	4-1-50	TJ	9-12-60	I-12	7-1-54				

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

ERI. G-7.31

# SCHEMATIC PLAN

ERI-2-0813



No Federal Participation

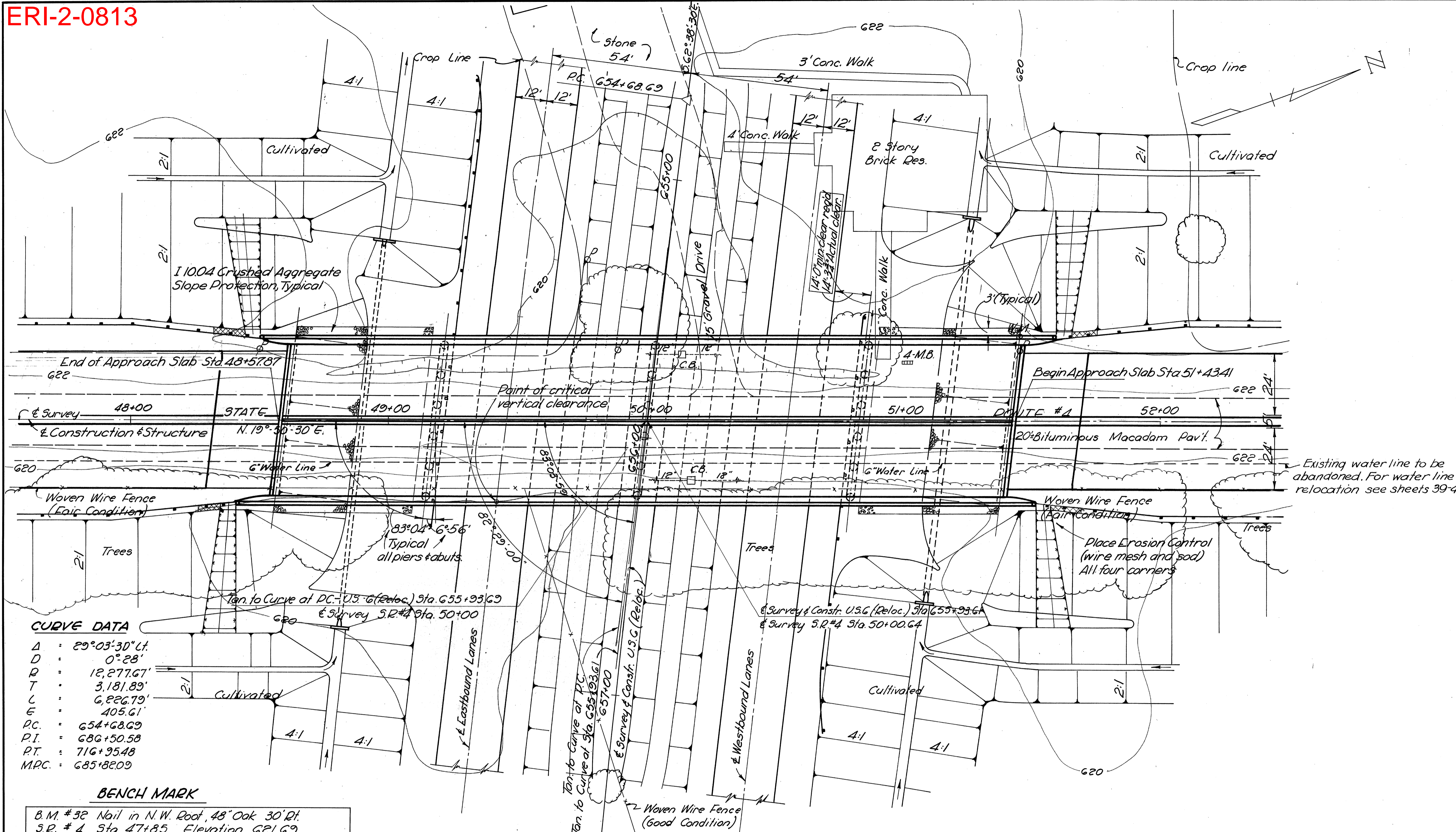
Drives:  
High type surface beyond end of flares, except where existing drive is high type.

R/W Fence:  
Except from Columbus Ave, 2600 ft. to east on north side, and 2600 ft. in vicinity of Columbus Ave. on south side.

Guard Rail:  
Barrier rail at structures as shown on sheet 7.

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ERI 6-7.31  
7.2 Miles West of Huron



Design Year Traffic  
ADT (1979) = 12000

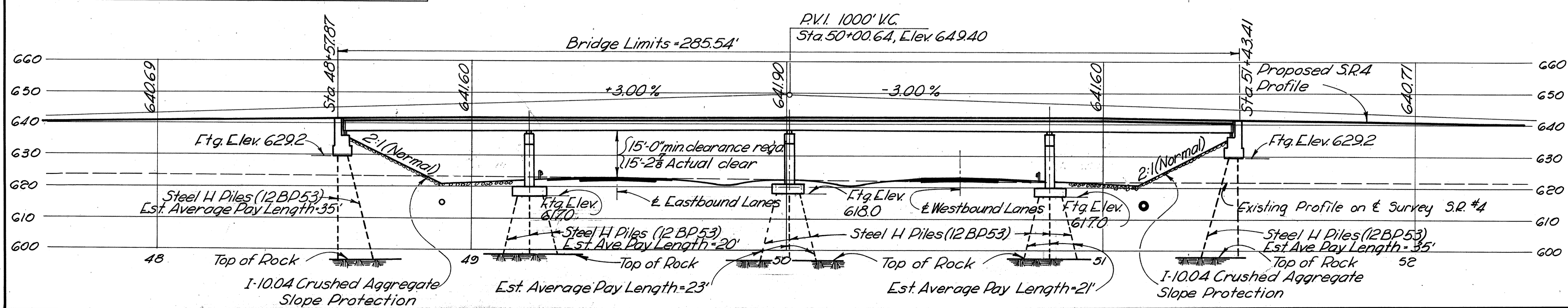
**FOUNDATION SOUNDINGS:**  
Foundation design and foundation quantities are based on a study of rod soundings and soil sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division Office, but the State does not guarantee the accuracy thereof.

**CURVE DATA**

Δ	29°03'30" Lt.
D	0°28'
R	12,277.67'
T	3,181.89'
L	6,226.79'
E	405.61'
P.C.	654+68.69
P.I.	686+50.58
P.T.	716+95.48
M.P.C.	685+82.09

**BENCH MARK**

B.M. #32 Nail in N.W. Root, 48' Oak 30'Dt.  
S.R. #4, Sta. 47+85 Elevation 621.69



**PROPOSED STRUCTURE**  
Type: Continuous steel beam with reinf. conc. deck. Reinf. conc. pier bents and stub abutments.  
Span: 58'-0", 82'-6", 82'-6", 58'-0" % Brgs.  
Roadway: 59'-0" of 2'-3" safety curbs including 3'-0" raised conc. median  
Load Frequency: CF-400 (57)  
Skew: 6°-56' Left Forward  
Wearing Surface: 1" Monolithic Concrete  
Approach Slabs: AS-1-54 25' Long  
Alignment: Tangent

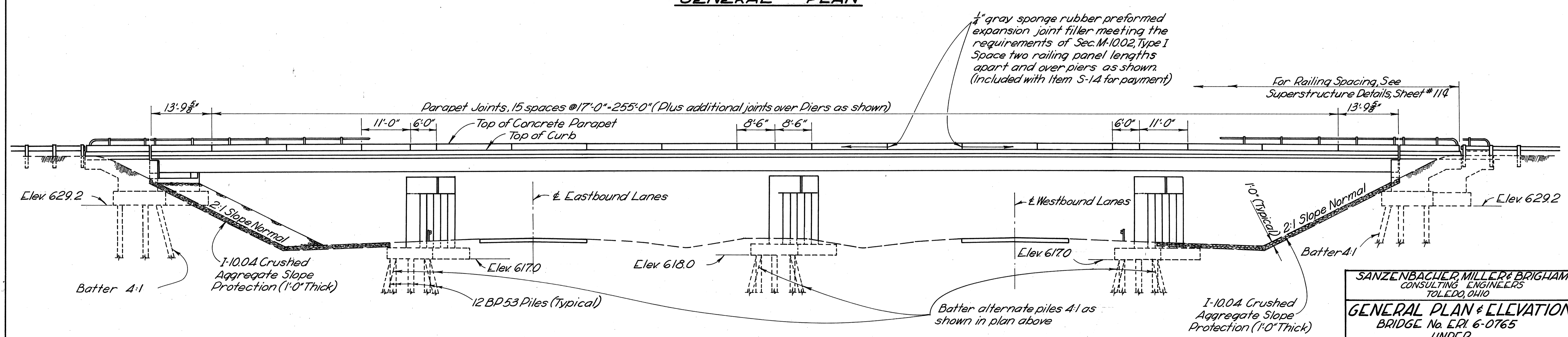
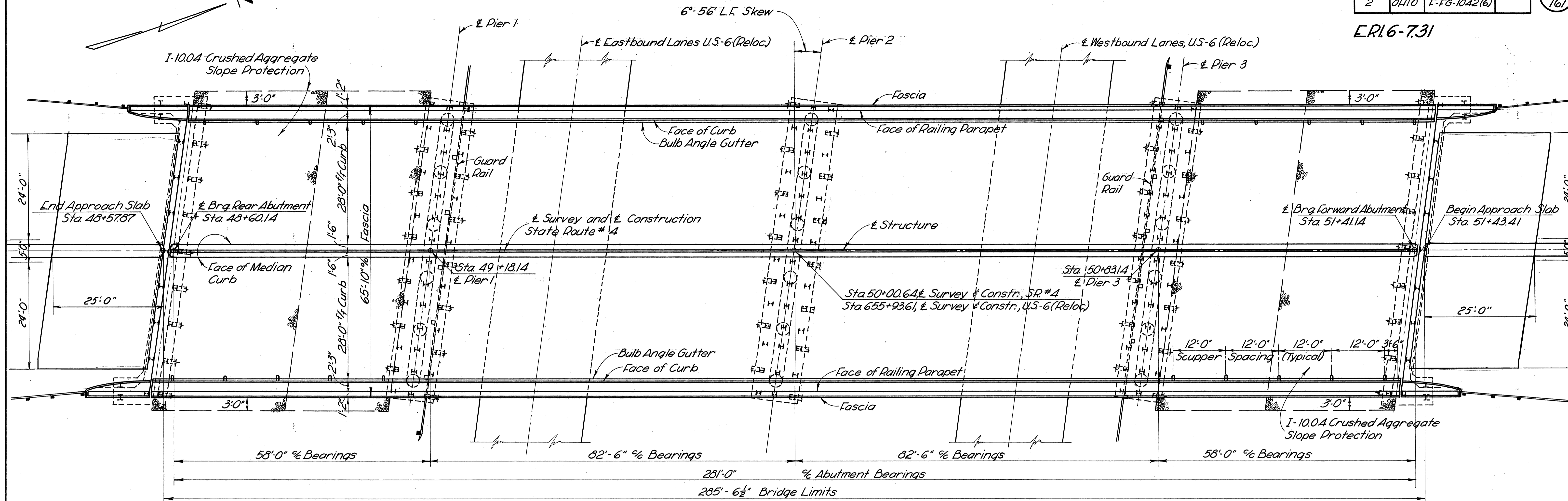
SANZENBACHER, MILLER & BRIGHAM  
CONSULTING ENGINEERS  
TOLEDO, OHIO

**SITE PLAN** ERI-4-0841  
BRIDGE NO. ERI 6-0765  
UNDER STATE ROUTE NO. 4

ERIE COUNTY STA. 48+57.87 to STA. 51+43.41  
SCALE: 1"=20'

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
S.M.B.	R.A.R.-B.B.	N.D., T.D.	N.D., T.D.	B.J.H.N.D.	F.C.M. 2/25/64

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MAR 19 1965



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CONSULTING ENGINEERS  
TOLEDO, OHIO

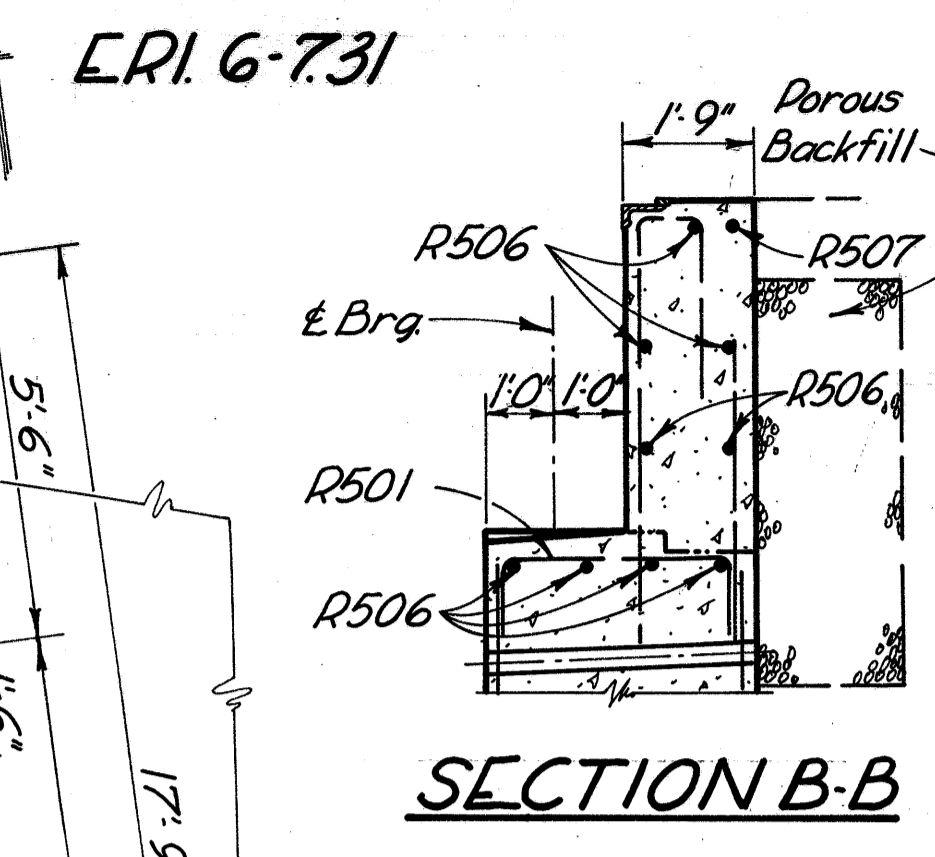
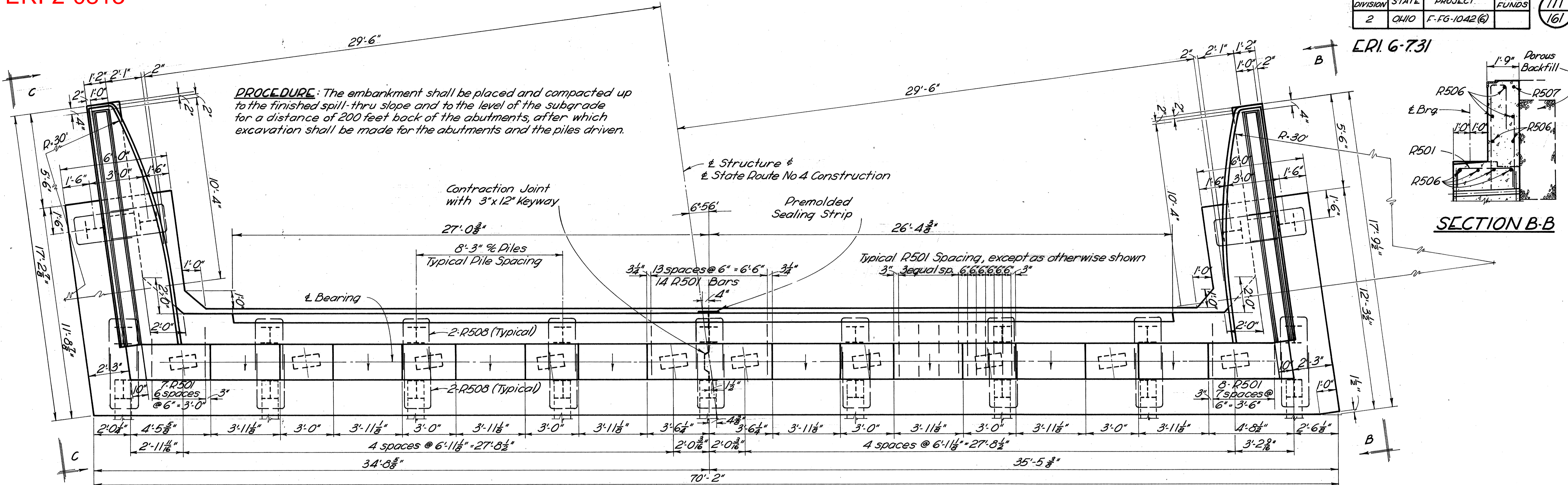
**GENERAL PLAN & ELEVATION**  
BRIDGE NO. ERI 6-0765  
UNDER  
STATE ROUTE No. 4  
Sta. 48+57.87 to  
Sta. 51+43.41

ERIC CO.

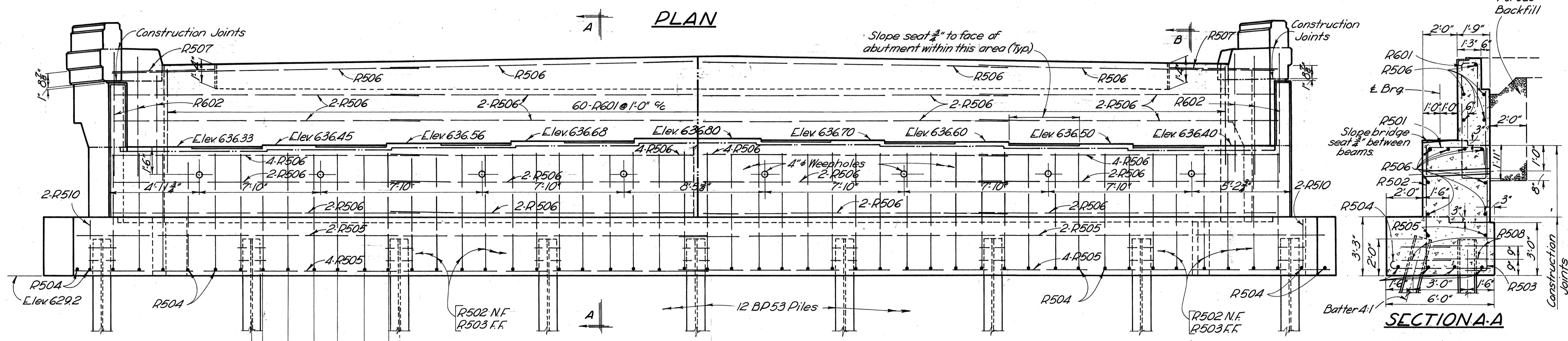
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TFH	TFH	JEC	RJH	BJH	FCM	9-23-66

MICROFILMED  
MAR 19 1985





PLAN



SECTION A-A

ELEVATION

R502, R503, R504  
Bar Spacing  
7' 1'-5" 1'-5" 1'-5" 1'-5" 1'-5" 7'

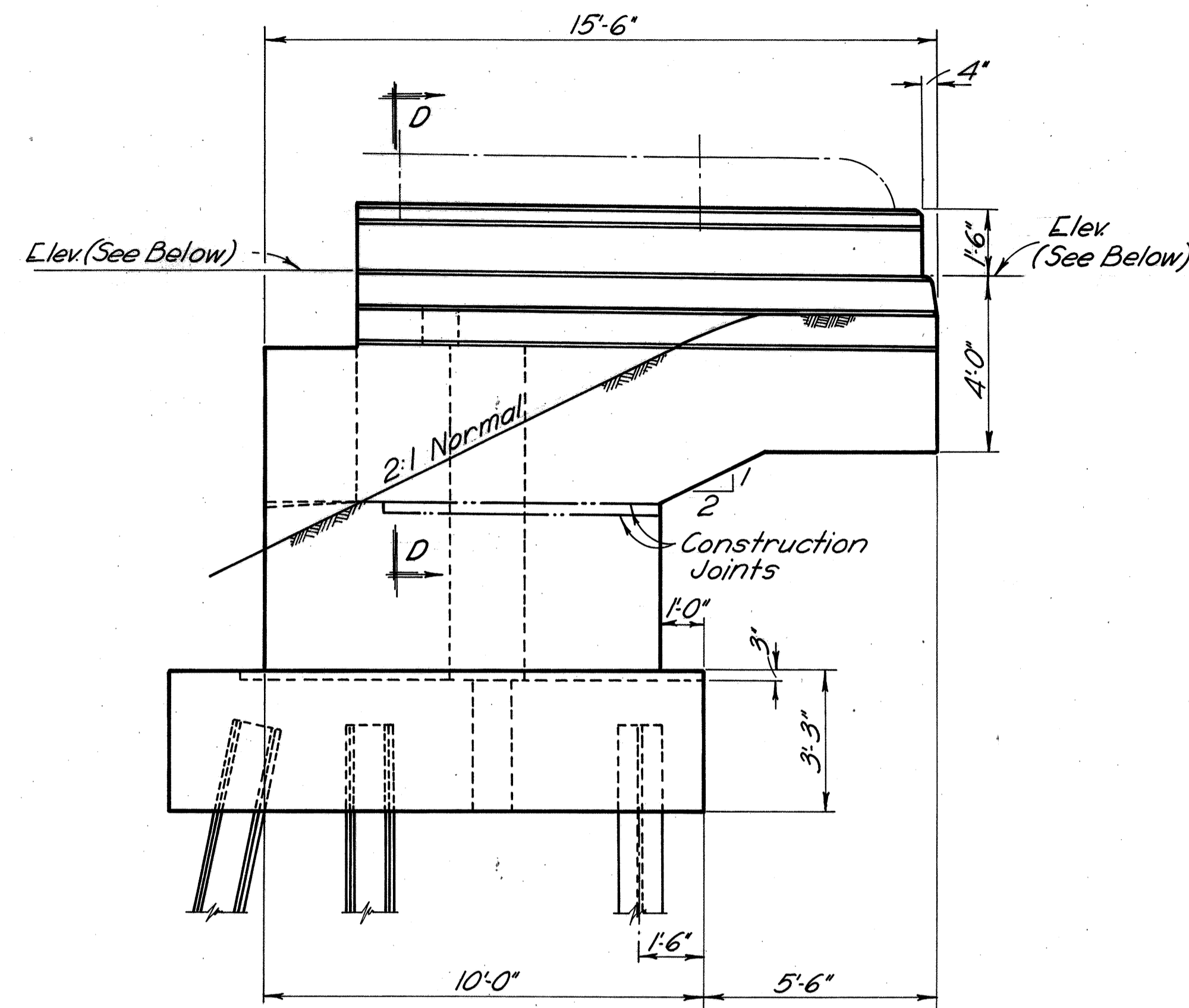
MICROFILMED  
MAR 19 1965

N.F. = Near Face  
F.F. = Far Face

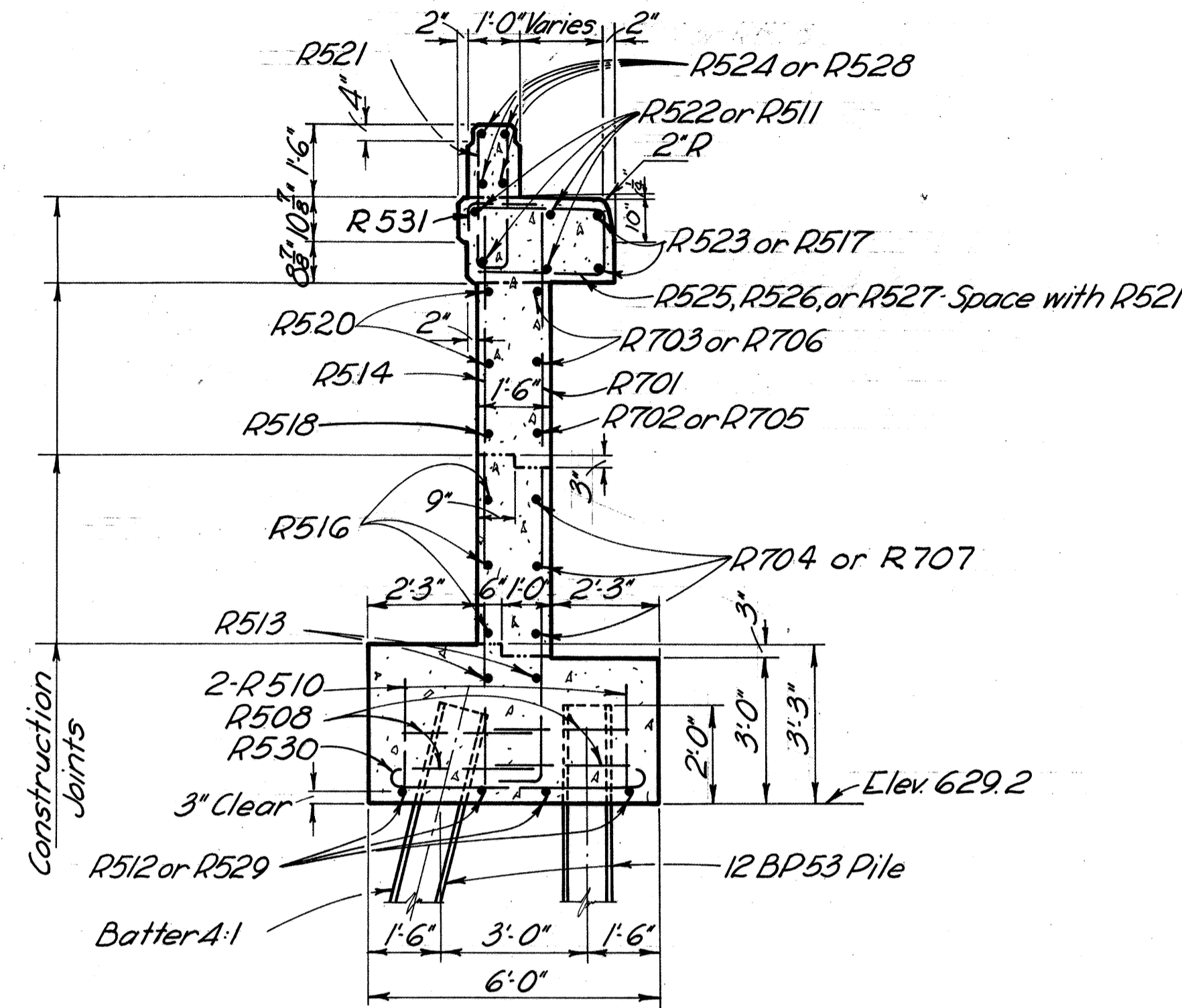
MICROFILMED  
MAR 19 1965

SANZENBACHER MILLER & BRIGHAM CONSULTING ENGINEERS TOLEDO, OHIO				
ABUTMENTS BRIDGE No. ERI 6-0765 UNDER STATE ROUTE No. 4 Sta 48+57.87 to Sta 51+43.41				
ERIE CO.				
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE
RJH	RJH	JEC	TFH	BJH FCM 9-23-60

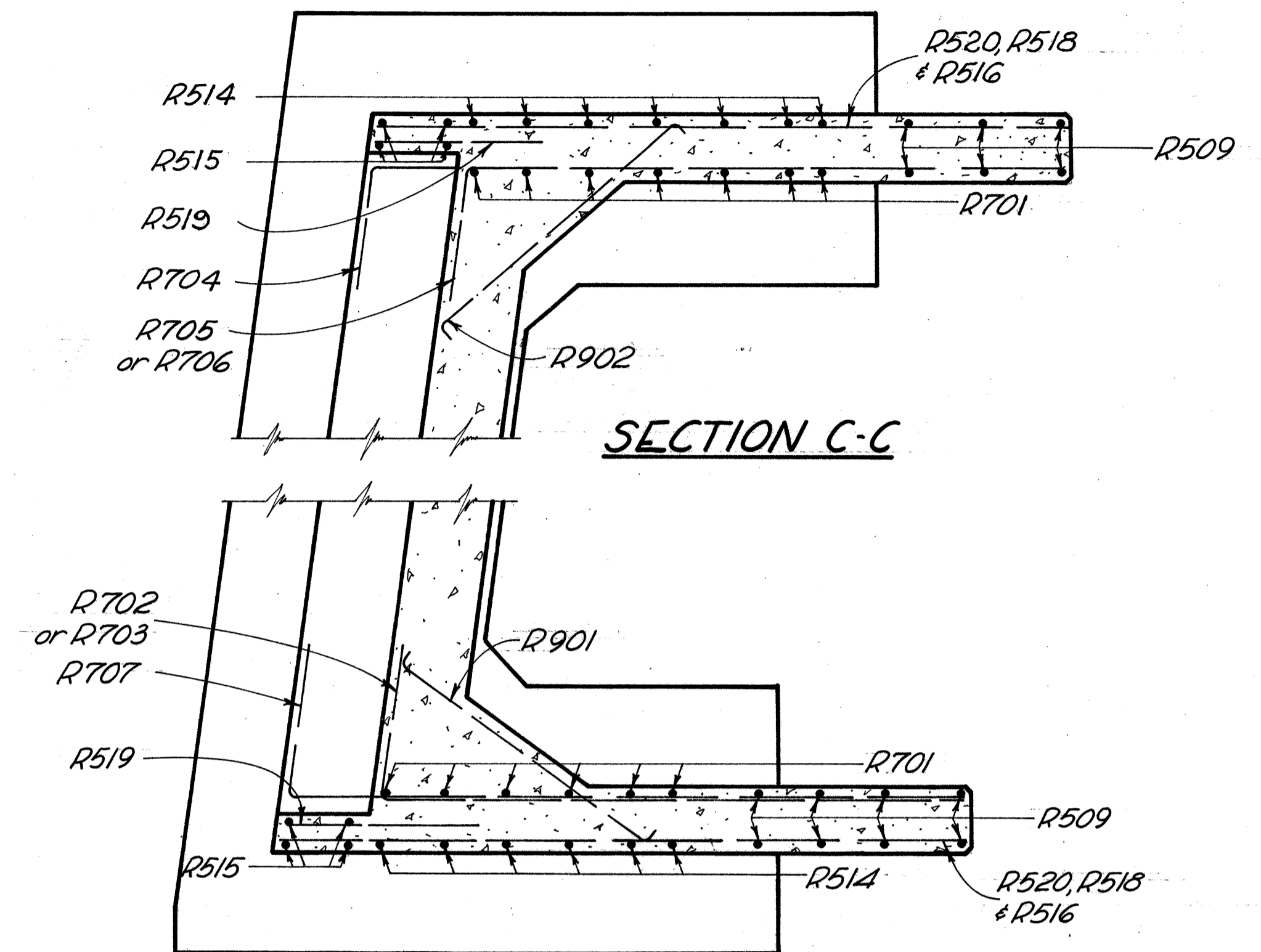
ERI 6-7.31



WINGWALL ELEVATION (CONSTRUCTION DETAILS)

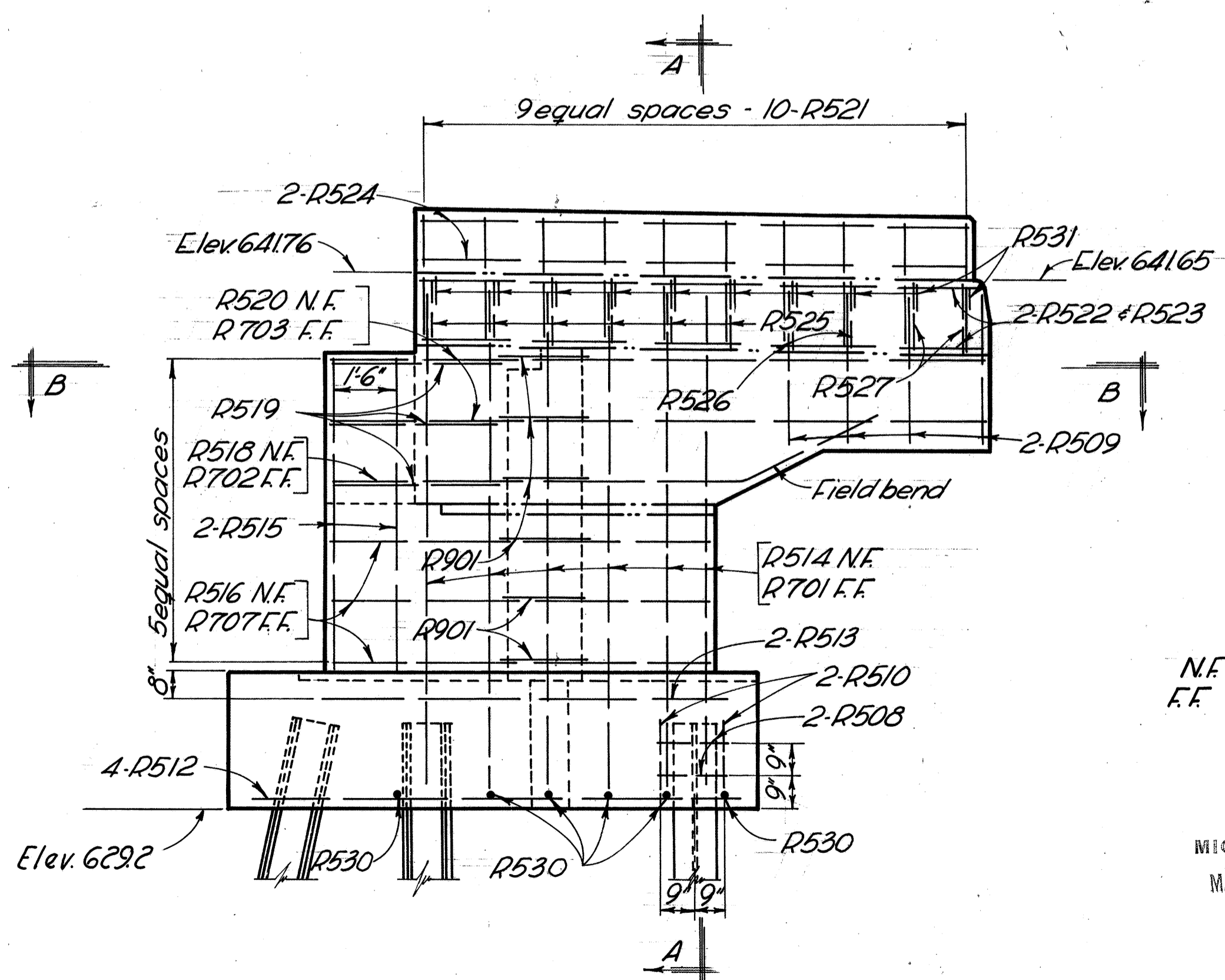


SECTION A-A

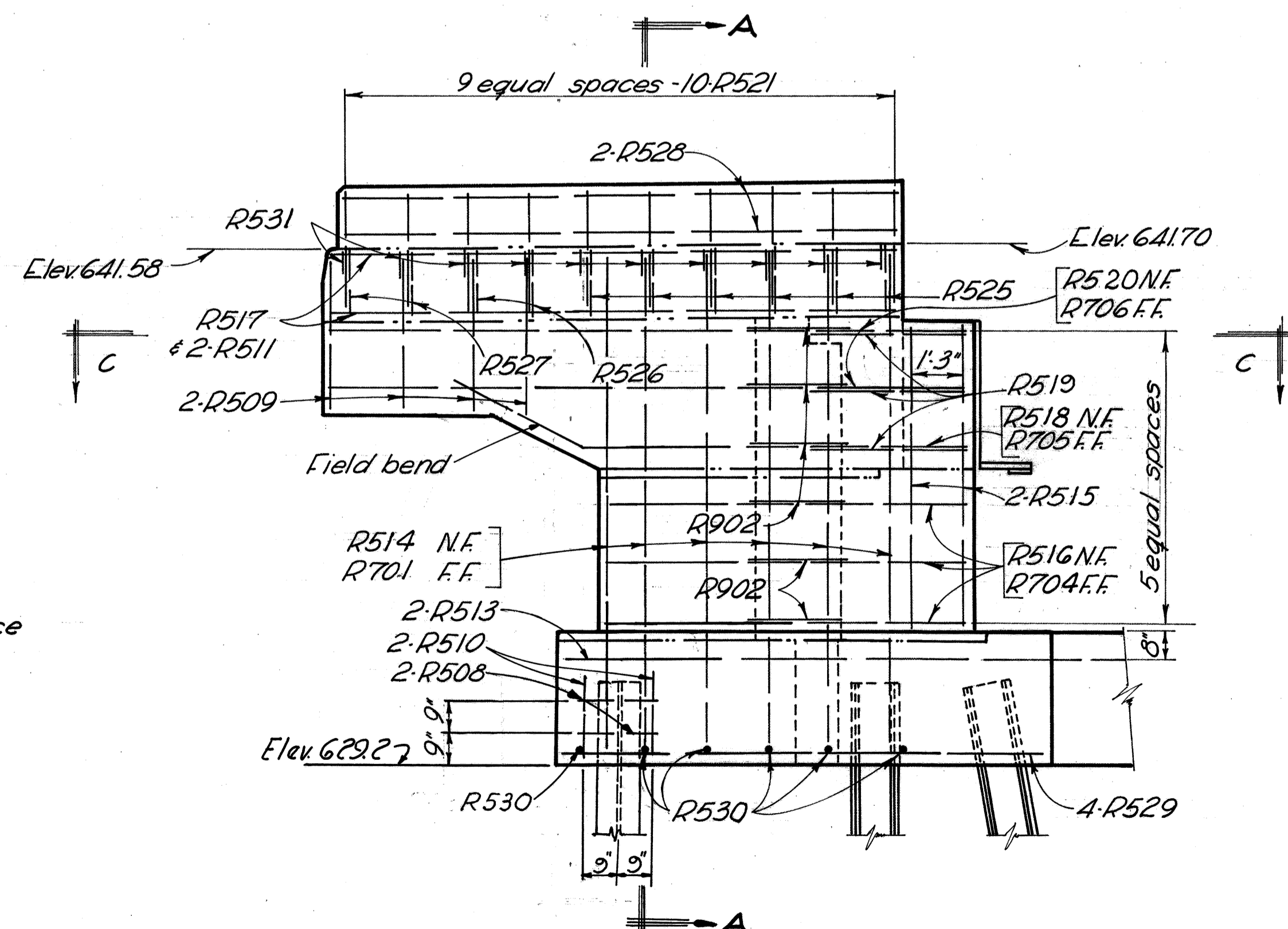


SECTION B-B

SECTION C-C



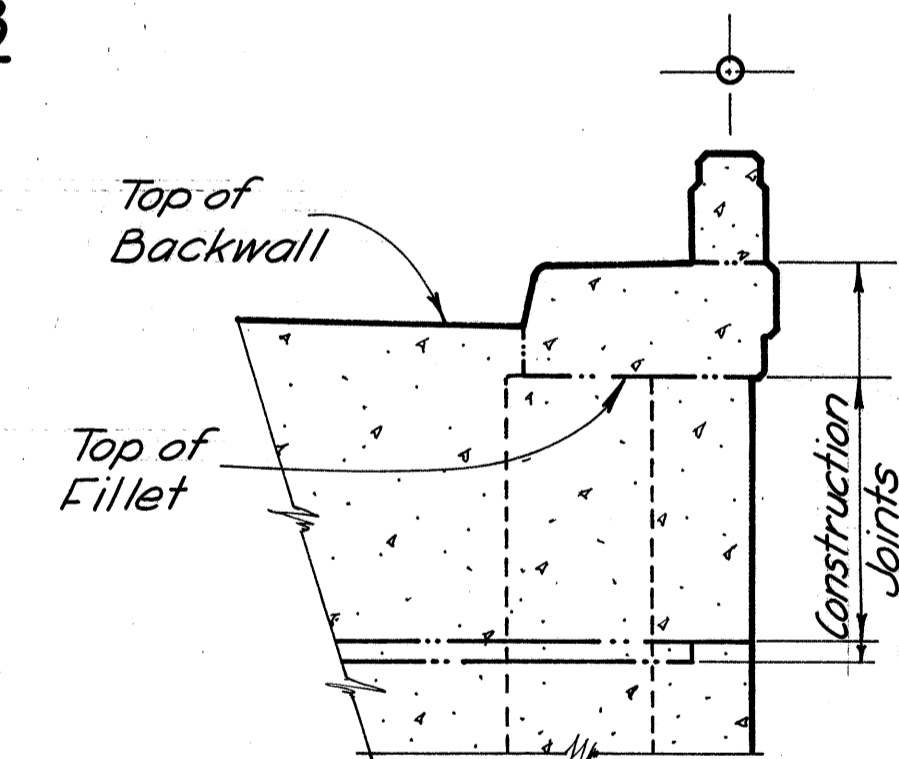
WINGWALL ELEVATION (REINFORCING BAR DETAILS)  
VIEW B-B (See Sheet III)



WINGWALL ELEVATION (REINFORCING BAR DETAILS)  
VIEW C-C (See Sheet III)

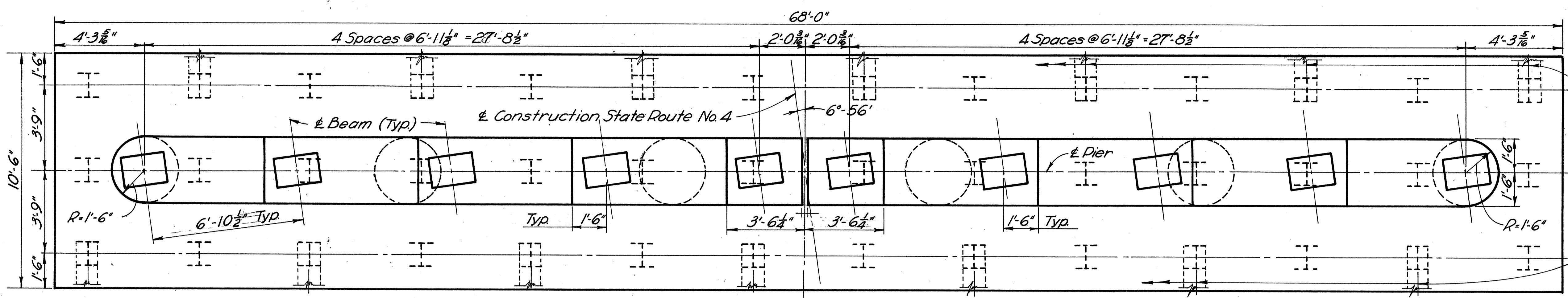
N.F. = Near Face  
F.F. = Far Face

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MAR 19 1985

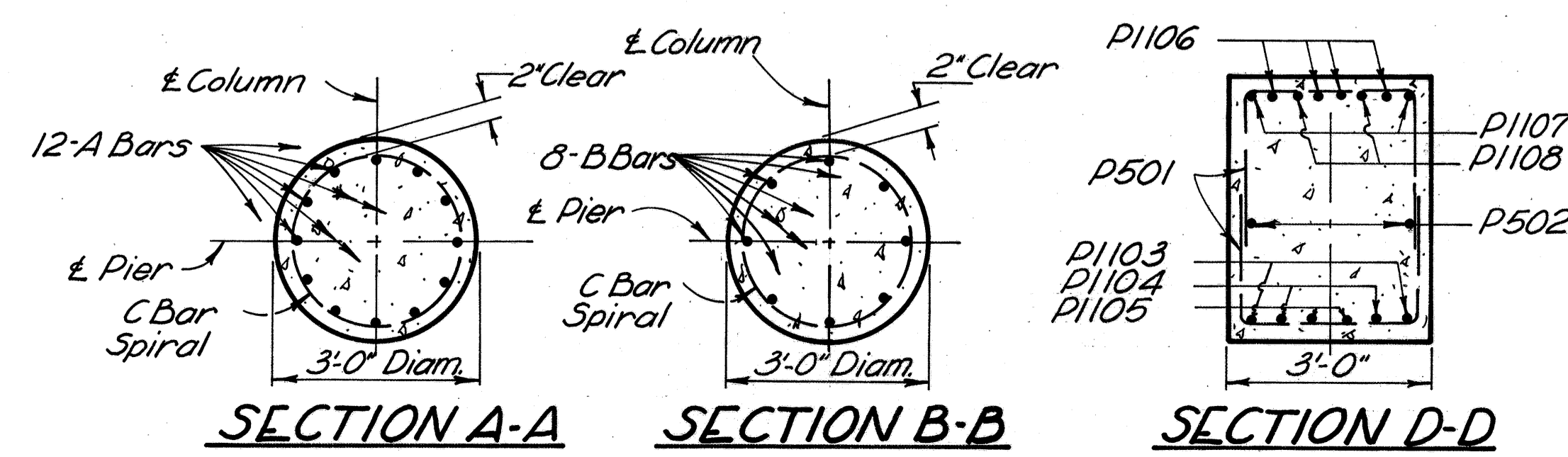
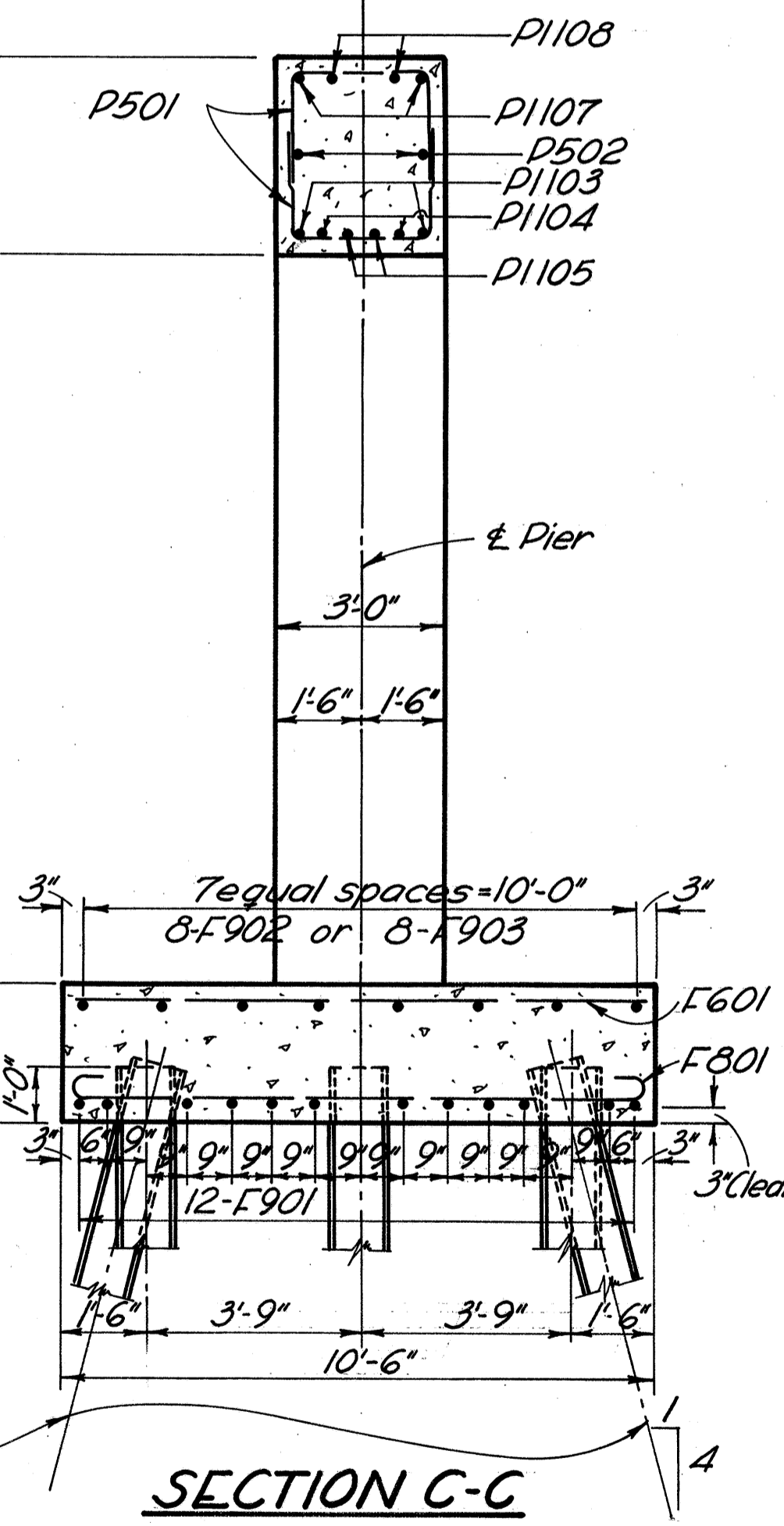
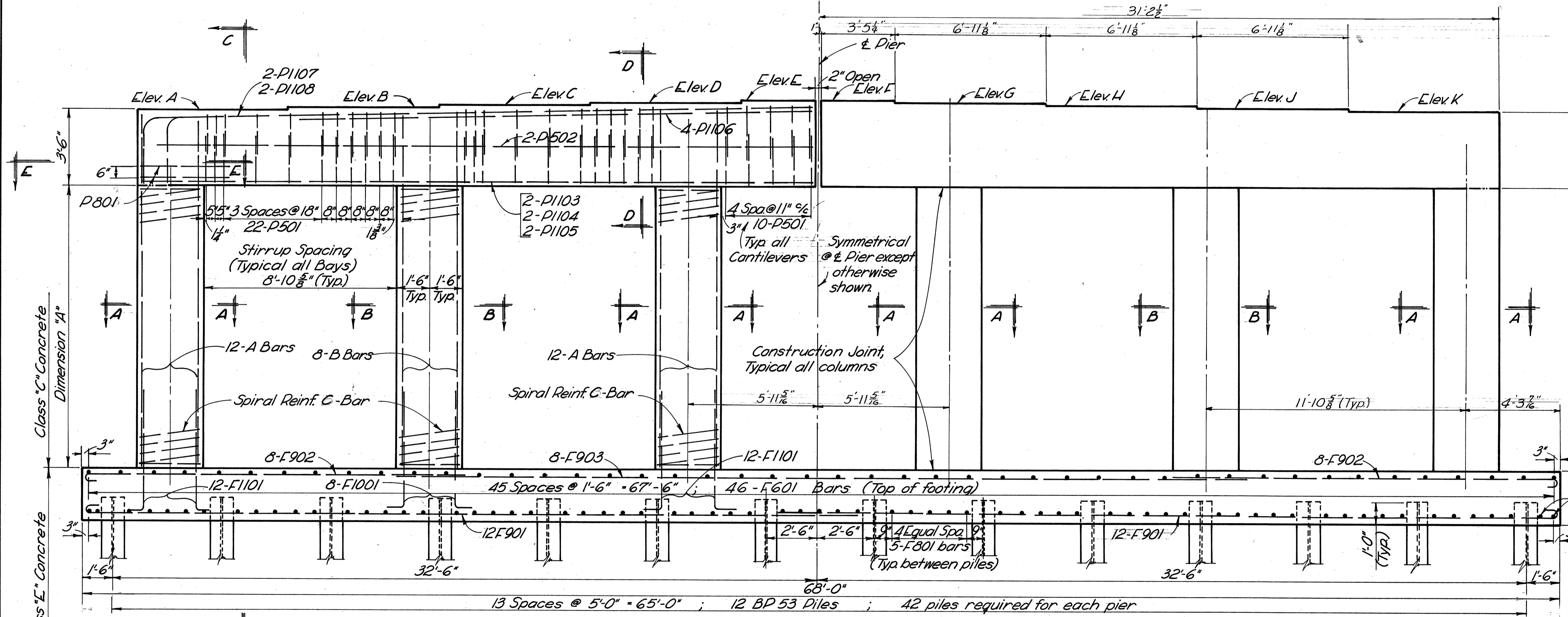
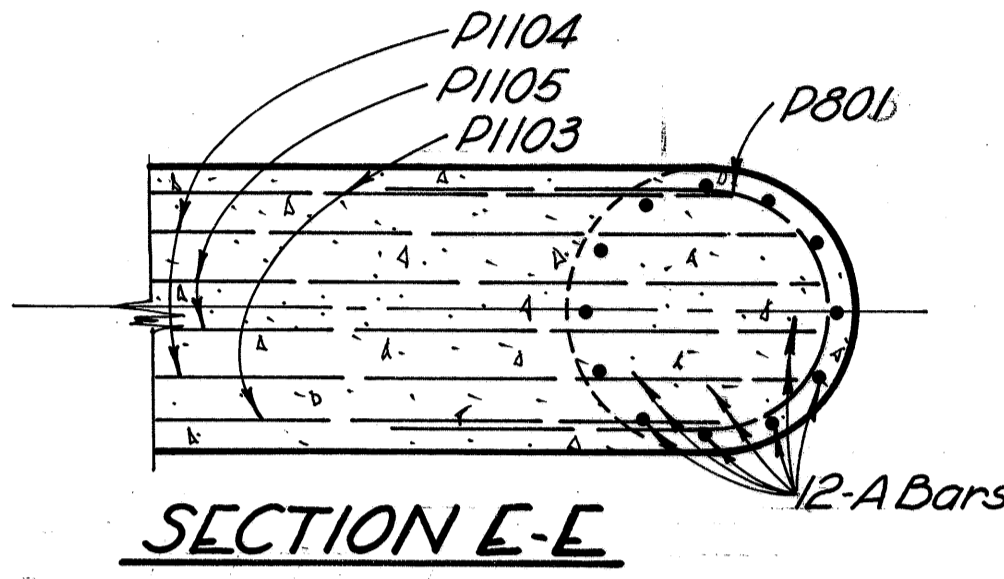


SECTION D-D

SANZENBACHER, MILLER & BRIGHAM CONSULTING ENGINEERS TOLEDO, OHIO				
<b>ABUTMENTS</b>				
BRIDGE No. ERI 6.0765				
UNDER				
STATE ROUTE No. 4				
Sta. 48+57.87 to				
Sta. 51+43.41				
ERIE CO.				
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
RJH	RJH	JEC	TFH	BJH
F.C.M. 9-23-40				



Batter alternate piles 1:4 in outer rows as shown. (Typical each pier)



All pier details and reinforcement are symmetrical about the ± Construction unless otherwise noted.

Special care shall be taken in placing reinforcing steel in the pier cap so that it will not interfere with the bolster anchor bolts in pier 2.

PIER NUMBER	ELEVATIONS											DIMENSIONS		BARS		
	A	B	C	D	E	F	G	H	J	K	L	A	B	A	B	C
Pier #1	636.25	636.35	636.46	636.56	636.66	636.66	636.55	636.44	636.33	636.21	617.00	13'-3"	13'-2 1/2"	P1101	P1101	SP401
Pier #2	636.33	636.44	636.55	636.65	636.76	636.76	636.65	636.55	636.44	636.33	618.00	12'-4"	12'-4"	P1102	P1102	SP402
Pier #3	636.21	636.33	636.44	636.55	636.66	636.66	636.56	636.46	636.35	636.25	617.00	13'-2 1/2"	13'-3"	P1101	P1101	SP401

SANZENBACHER, MILLER & BRIGHAM  
CONSULTING ENGINEERS  
TOLEDO, OHIO

**PIERS 1, 2 & 3**  
BRIDGE No. ERI. 6-0765  
UNDER  
STATE ROUTE No. 4

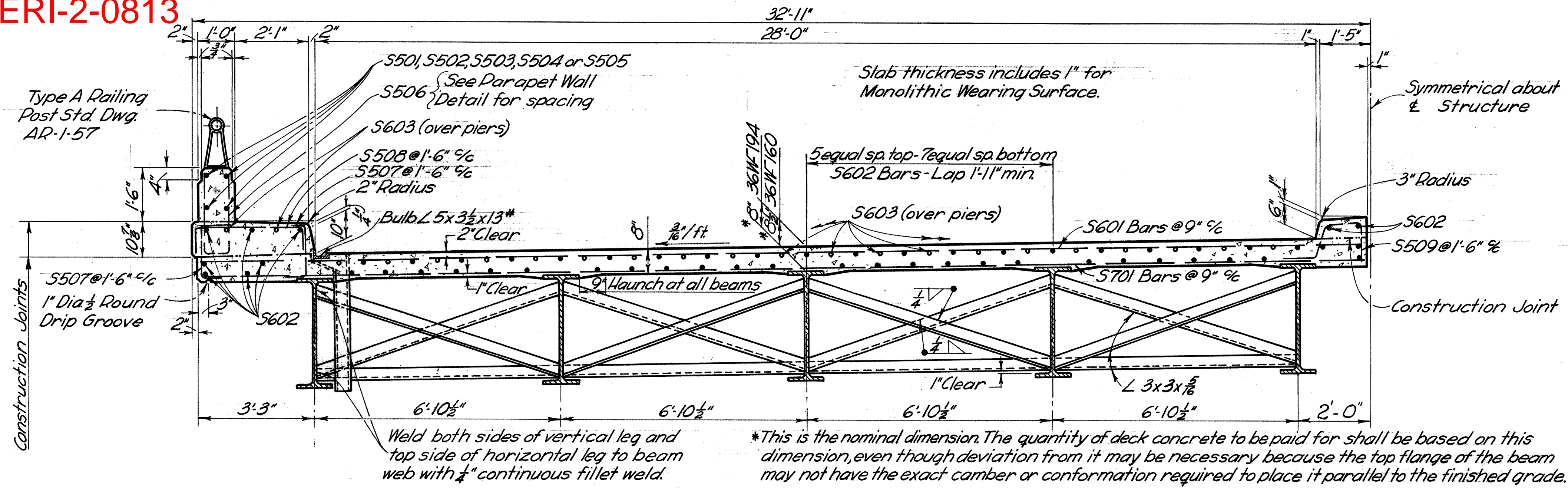
Sta. 48+57.87 to  
Sta. 51+43.41

ERIE CO.

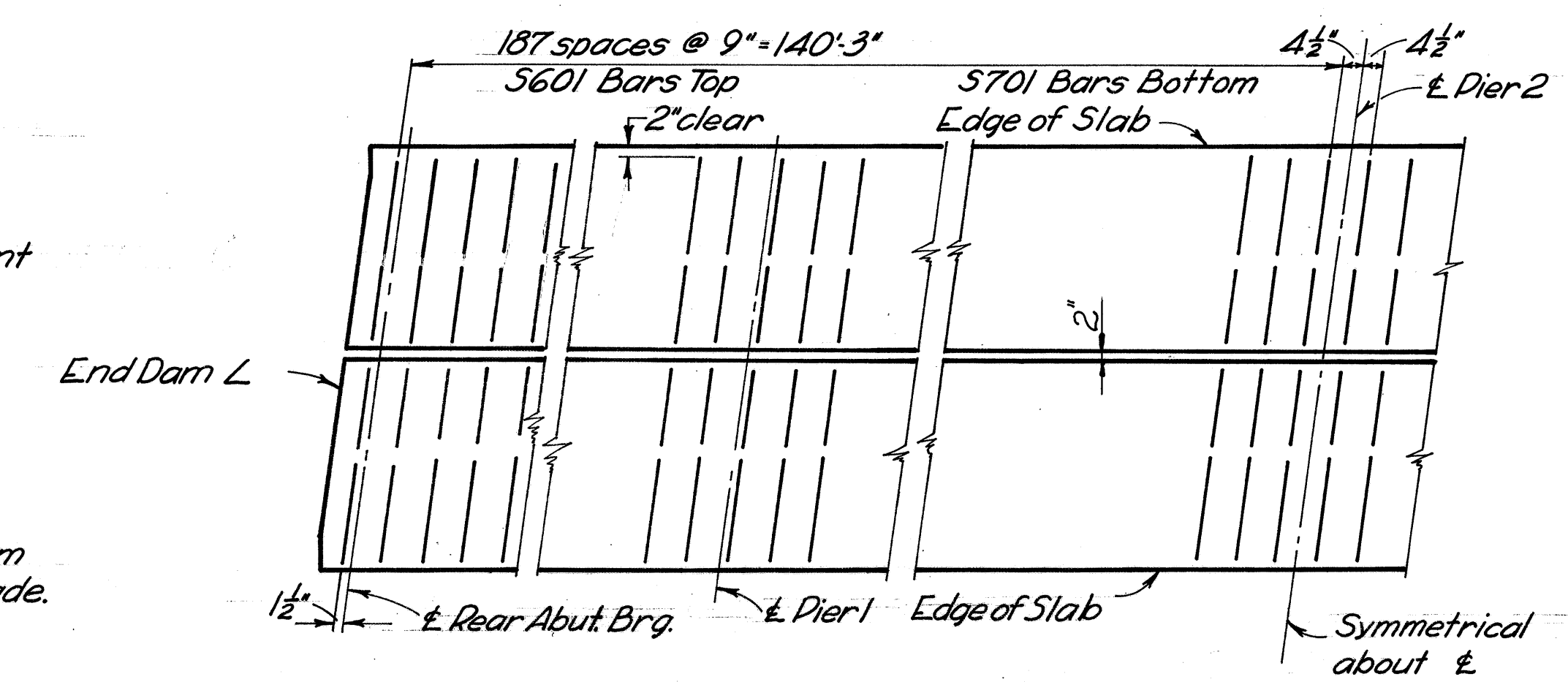
DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISION

TFH TFH JEC RJH BJH  
BJH FCM 9-23-60

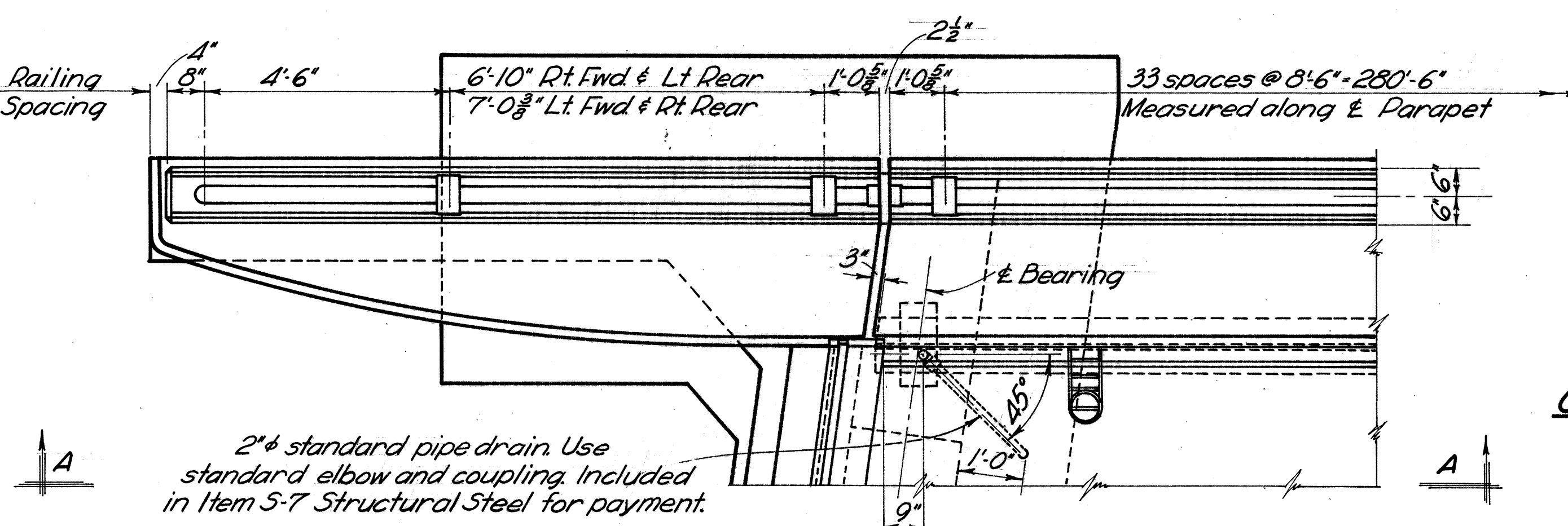




TRANSVERSE SECTION OF DECK



SLAB TRANSVERSE REINFORCING STEEL



PLAN AT ABUTMENT

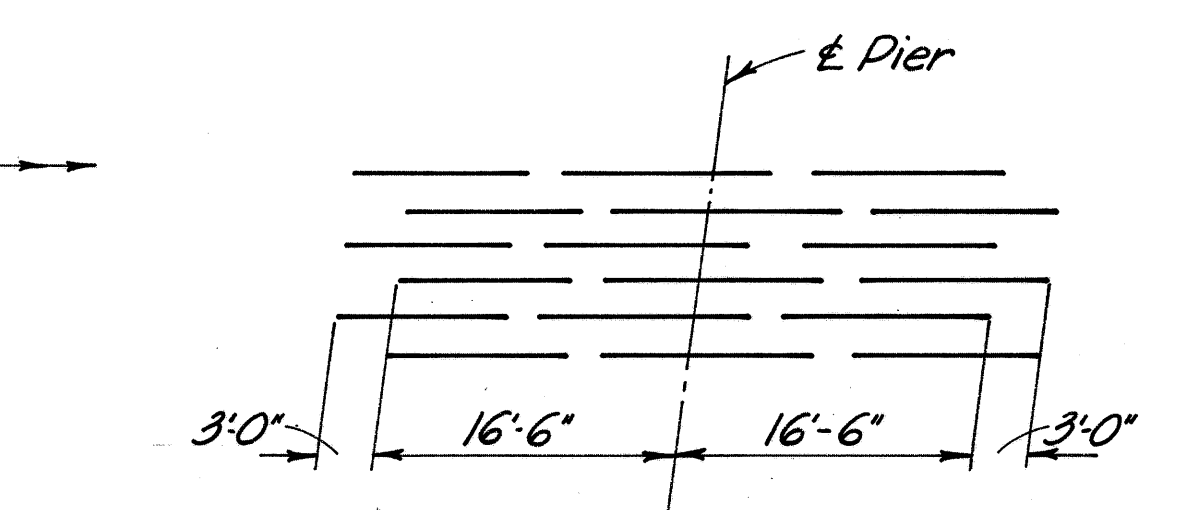
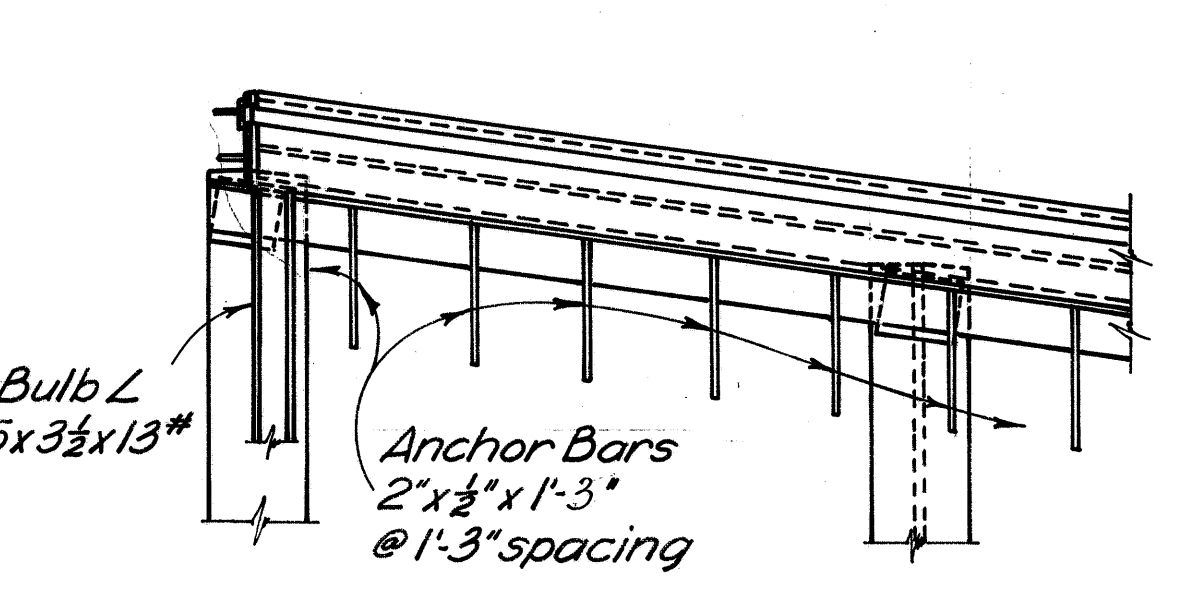
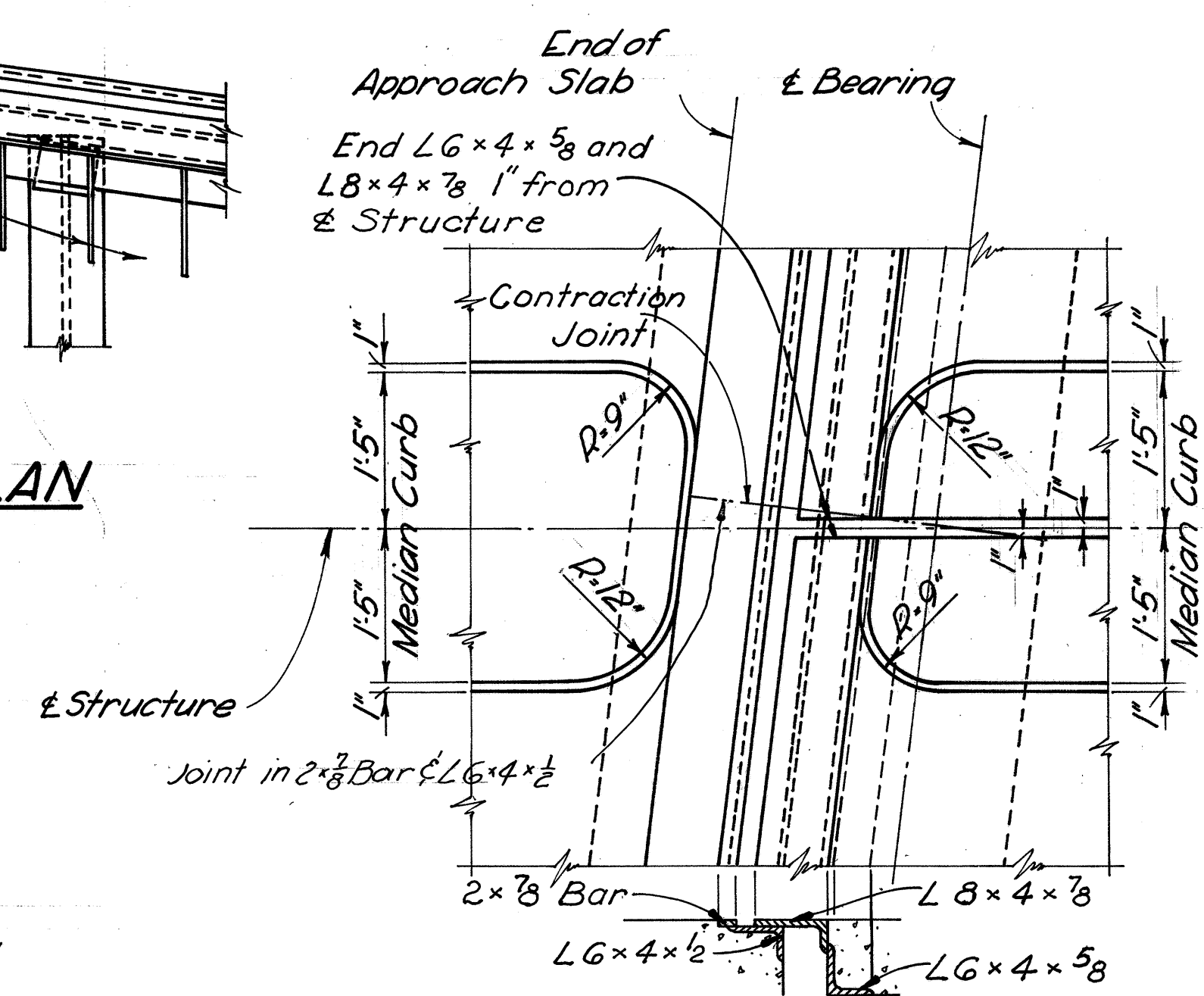


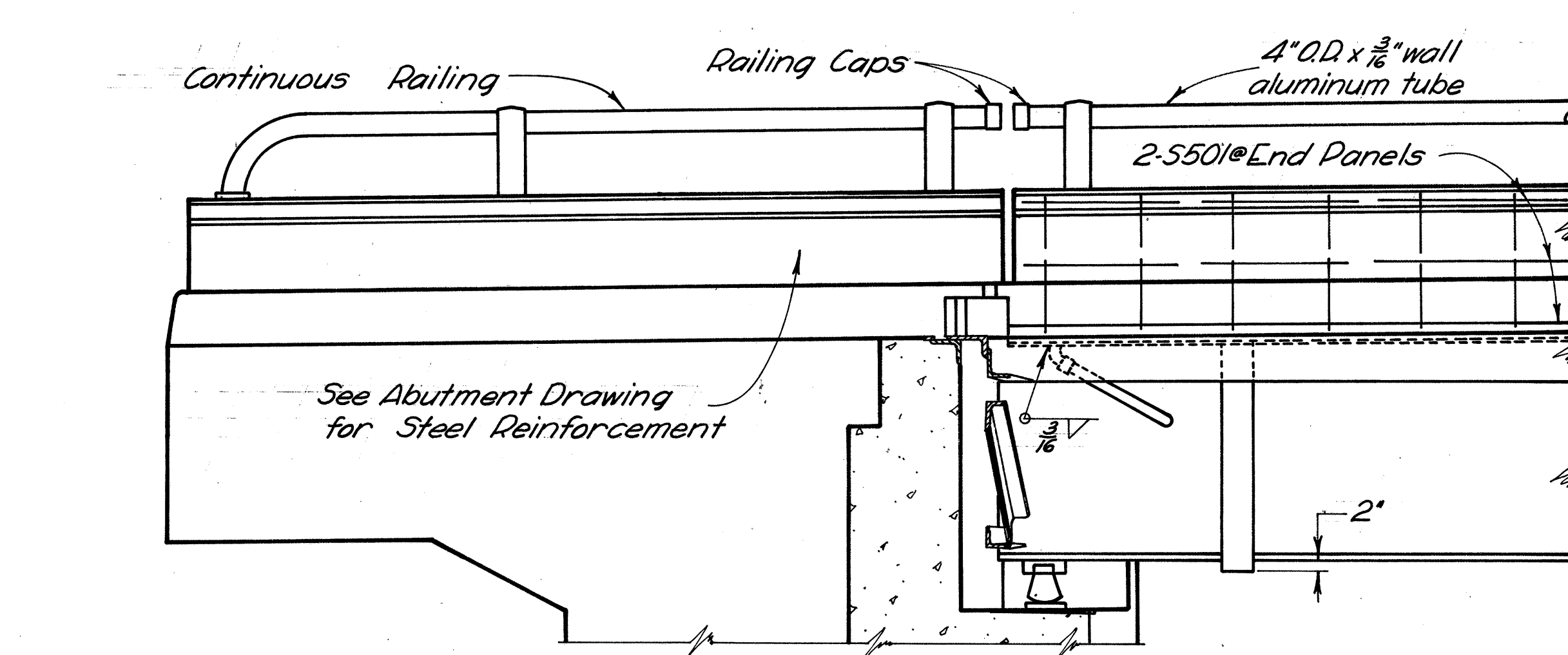
DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS



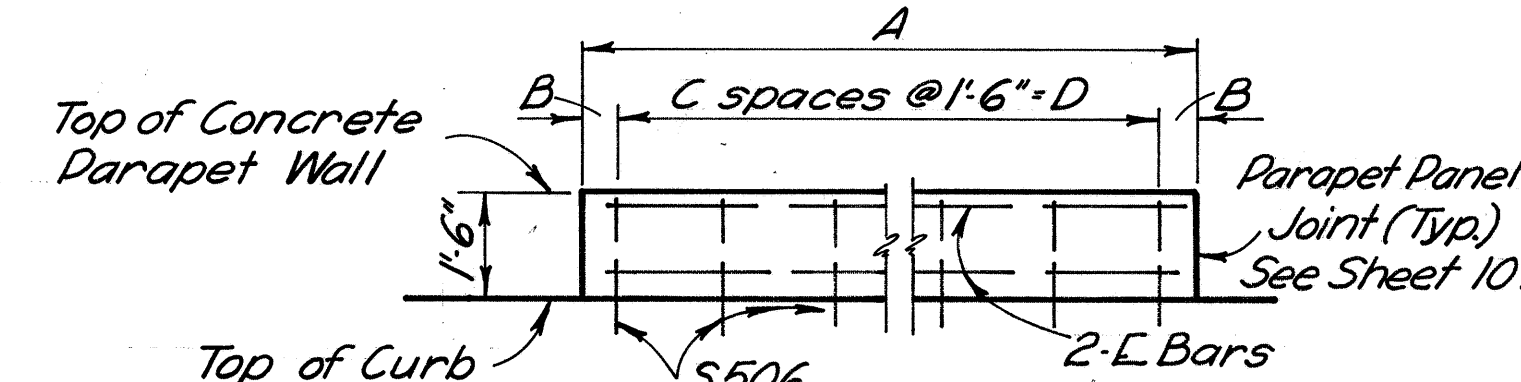
PART END DAM PLAN



PLAN OF END DAM AT MEDIAN CURB

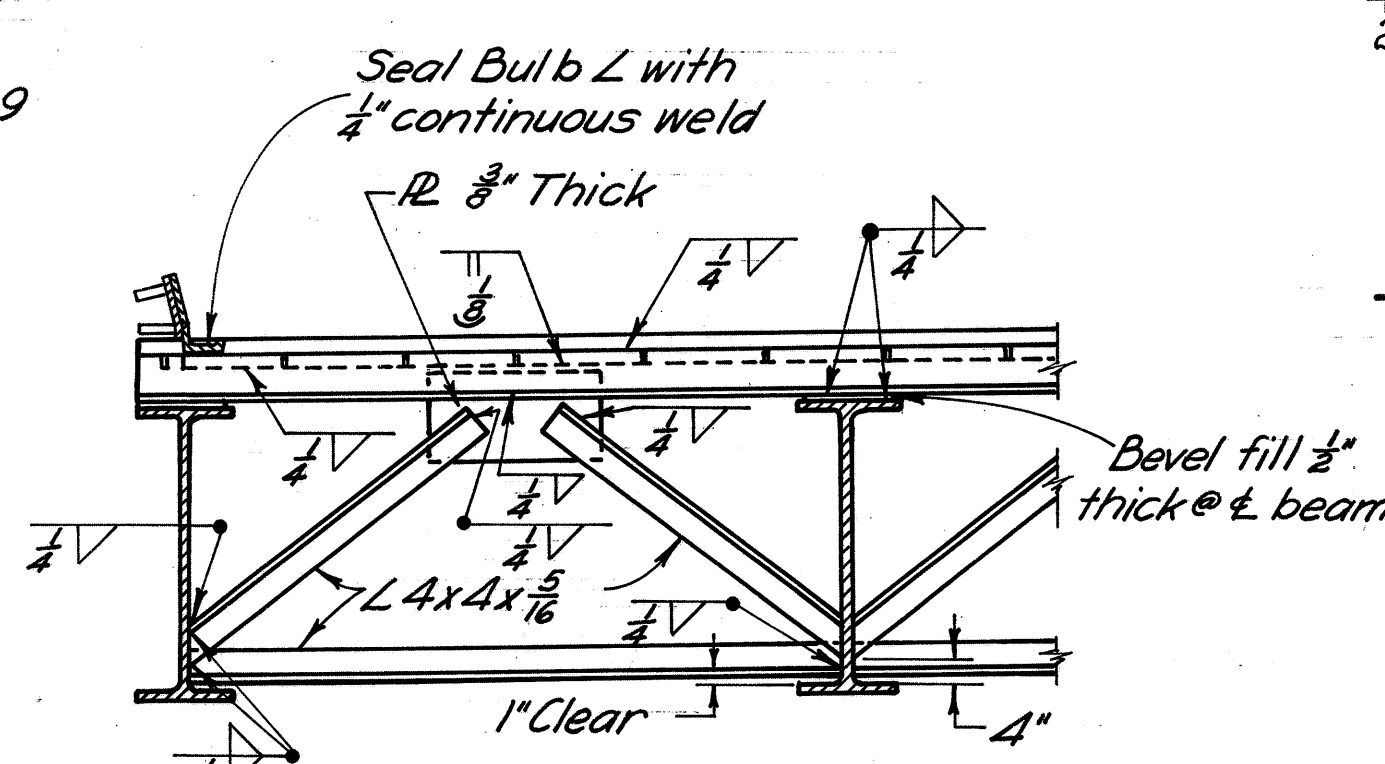


SECTION A-A



PARAPET WALL DETAILS

PARAPET WALL DIMENSIONS & BARS						
Panel See Sheet 109	A	B	C	D	No. of S506 Bars	E
End	13'-9 $\frac{3}{8}$ "	1 $\frac{3}{4}$ "	9	13'-6"	10	S501
Piers 1 & 3	11'-0"	3"	7	10'-6"	8	S502
Piers 1 & 3	6'-0"	9"	3	4'-6"	4	S503
Pier 2	8'-6"	6"	5	7'-6"	6	S504
Intermediate	17'-0"	3"	11	16'-6"	12	S505



PART END DAM ELEVATION

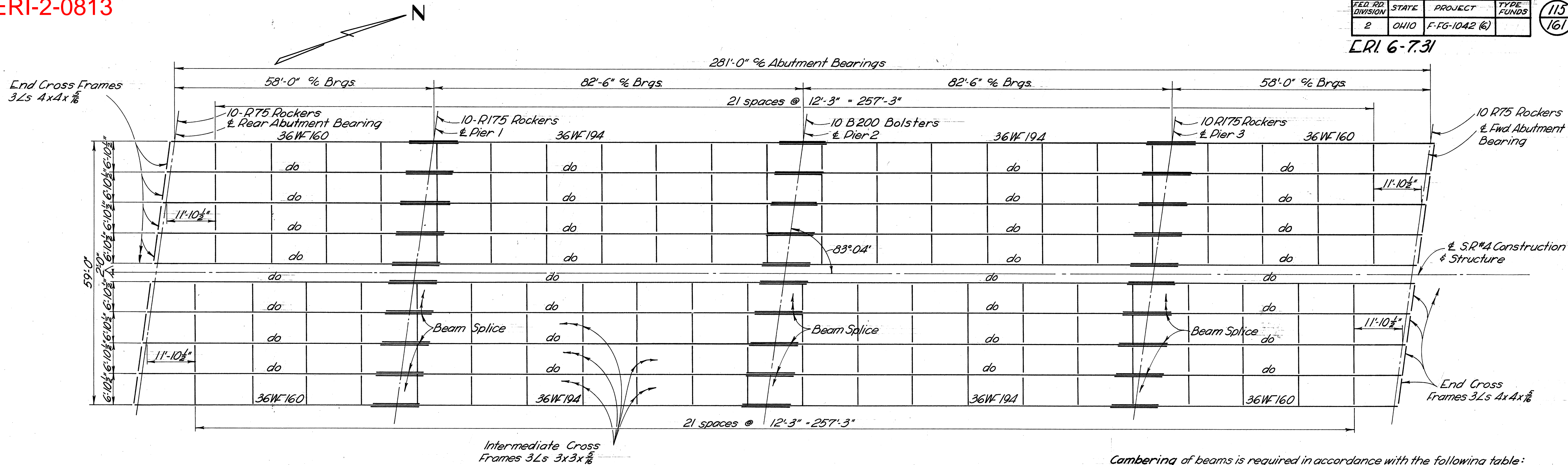
MICROFILMED  
MAR 19 1965

SANZENBACHER, MILLER & BRIGHAM  
CONSULTING ENGINEERS  
TOLEDO, OHIO

**SUPERSTRUCTURE DETAILS**  
BRIDGE No. ERI 6-0765  
UNDER  
STATE ROUTE No. 4  
Sta. 48+57.87 to  
Sta. 51+43.41

ERIC CO.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RJH	RJH	JEC	TFH	BJH	9-23-60	



**STEEL FRAMING PLAN**

Cambering of beams is required in accordance with the following table:

LOCATION	Interior Beams				Exterior Beams			
	Span 1	Span 2	Span 3	Span 4	Span 1	Span 2	Span 3	Span 4
Deflection due to weight of steel	1/8"	3/8"	3/8"	1/8"	1/8"	3/8"	3/8"	1/8"
Remaining dead load deflection	3/16"	3/8"	3/8"	3/16"	3/16"	3/8"	3/8"	3/16"
Camber due to vertical curve	1/4"	5/8"	5/8"	1/4"	1/4"	5/8"	5/8"	1/4"
Total Camber	1/2"	1 3/8"	1 3/8"	1/2"	1/2"	1 3/8"	1 3/8"	1/2"
Required Shop Camber	None	1 3/8"	1 3/8"	None	None	1 3/8"	1 3/8"	None

**NOTE:** Refer to Standard CSB-2-56 sheet 2 or 3 of 6 for the following details:

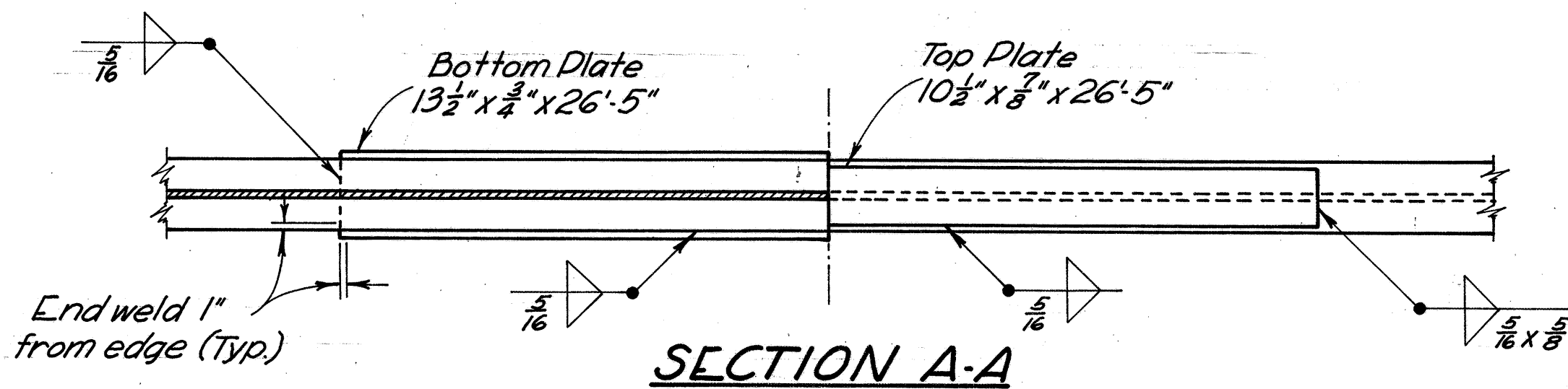
- Roadway End Dam
- Welded Butt Joint in Superstructure End Dam Angles
- Scupper Details
- Gutter Supports
- Curb Plate Details

**BEAM SPLICE WELDING PROCEDURE**

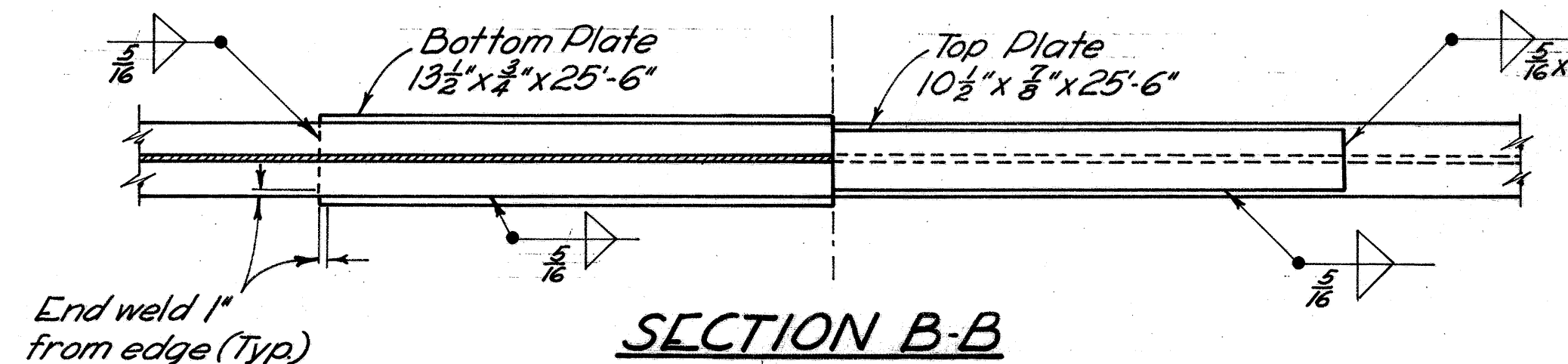
- Raise end of beam at Pier 2, 2 1/2"
- Butt-weld beam flanges and web at Pier 1 using the following sequence: make two passes on each flange, then two on the web; repeat, using one pass at each location, until welds are completed.
- Weld top and bottom flange moment plates at Pier 1
- Lower end of beam at Pier 2.
- Make splice at Pier 2 and Pier 3 in the same manner raising the end of beams 3" at Pier 3 and 3/4" at the forward Abutment.

**PAINING**

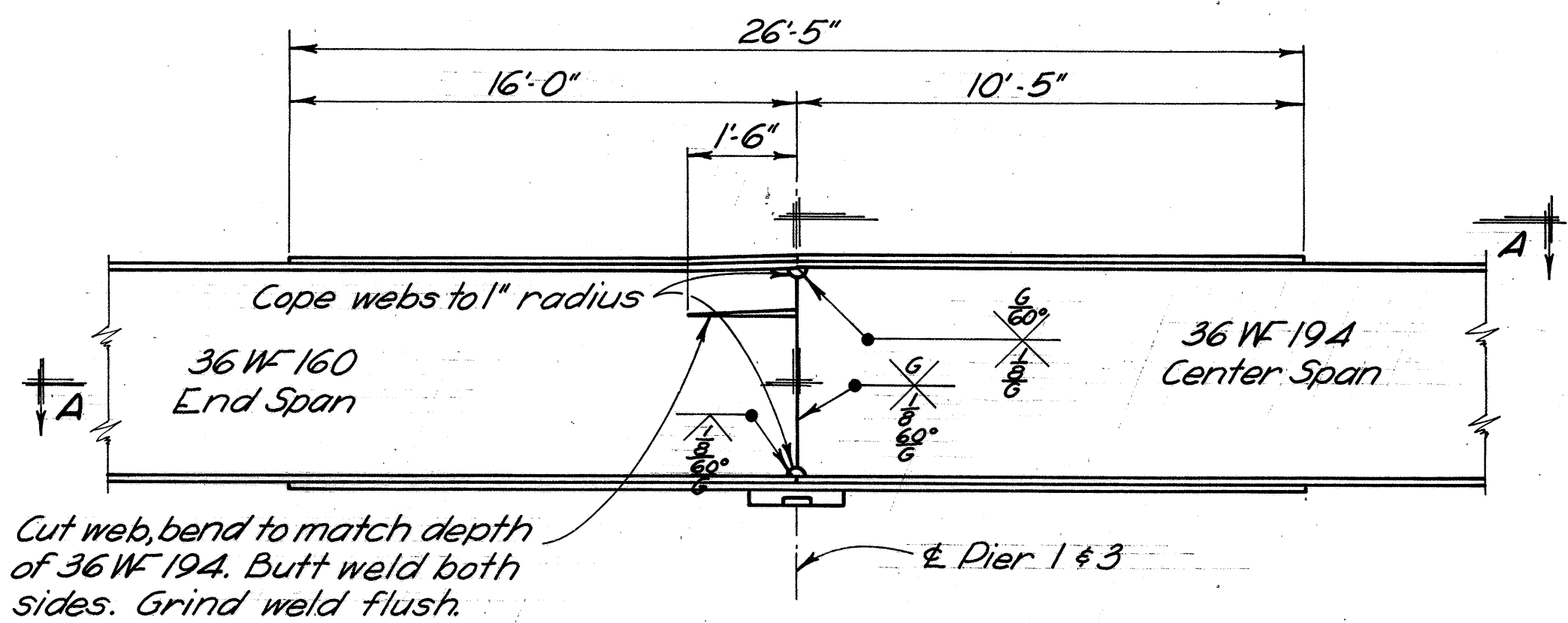
After erection and after the shop coat has been cleaned and, where necessary, repainted in accordance with Sec. 804, an additional coat of the same paint as used in the shop shall be applied over the outside face of the outside steel beams, and all sides of the bottom flange.



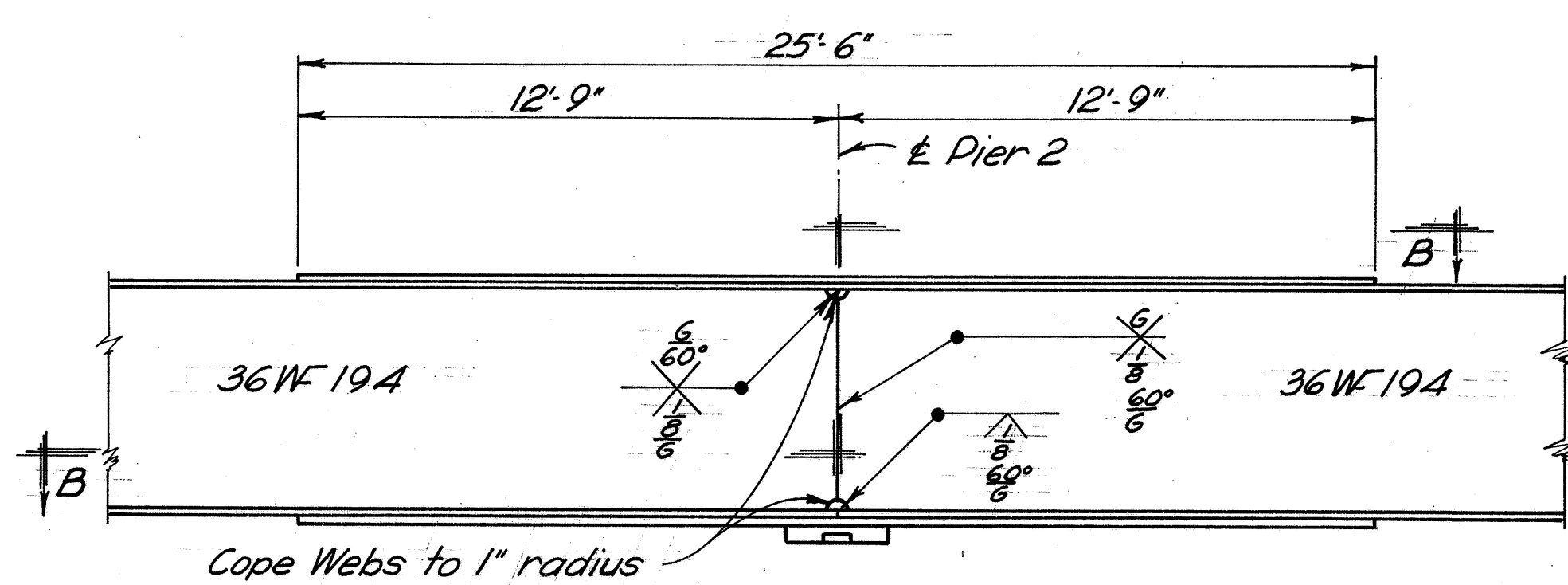
**SECTION A-A**



**SECTION B-B**



**ELEVATION BEAM SPLICE DETAIL (Piers 1 & 3)**



**ELEVATION BEAM SPLICE DETAIL (Pier 2)**

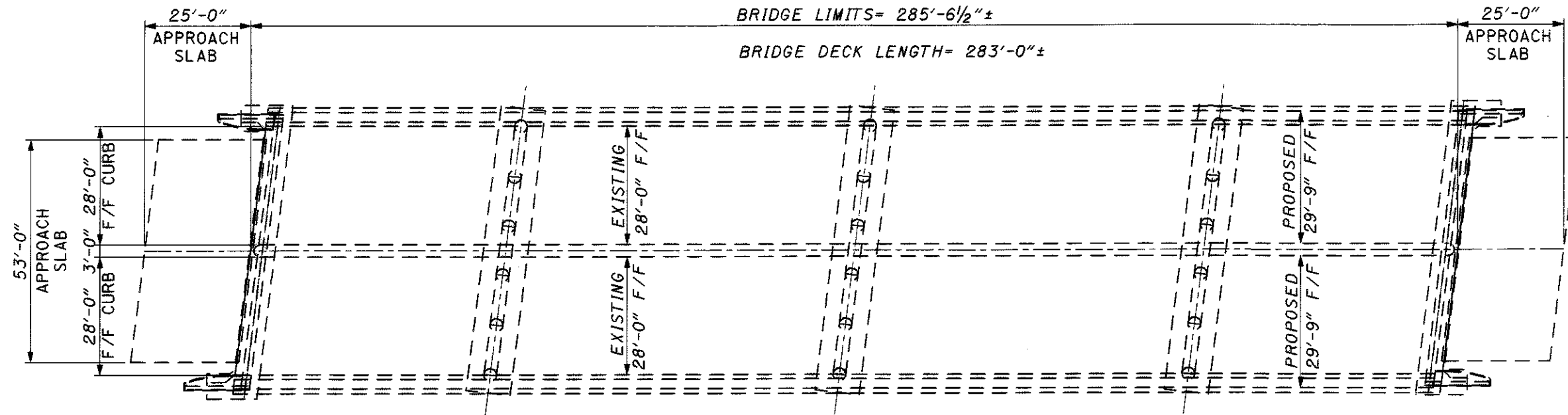
MICROFILMED  
MAR 19 1985

**SANZENBACHER, MILLER & BRIGHAM**  
CONSULTING ENGINEERS  
TOLEDO, OHIO

**SUPERSTRUCTURE DETAILS**  
BRIDGE No. ERI 6-0765  
UNDER  
STATE ROUTE No. 4  
Sta 48+57.87 to  
Sta 51+43.41

ERIE CO.  
DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISED  
RJH RJH JEC TFH BJH  
FCM 9-23-60

# ERI-2-0813



ITEM	QUANTITY	UNIT	DESCRIPTION
202	7	CU. YD.	PORTION OF STRUCTURE REMOVED (ABUTMENT)
202	7	CU. YD.	PORTION OF STRUCTURE REMOVED (DECK)
202	104	CU. YD.	PORTION OF STRUCTURE REMOVED (PARAPET)
509	16,160	POUND	EPOXY COATED REINFORCING STEEL
510	1252	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	7	CU. YD.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (DECK)
511	99.4	CU. YD.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (PARAPET)
511	2	CU. YD.	CLASS S CONCRETE, MISC: SCUPPERS
511	9	CU. YD.	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)
516	283	FT.	ELASTOMERIC COMPRESSION SEAL
516	128	FT.	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL
848	1871	SQ. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (3 INCH THICK)
848	1845	SQ. YD.	SURFACE PREPARATION USING HYDRODEMOLITION
848	30	CU. YD.	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	100	SQ. YD.	HAND CHIPPING
848	1ump		TEST SLAB
848	1	CU. YD.	FULL-DEPTH REPAIR
864	934	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

**NOTES:**

- 1) THE EXISTING APPROACH GUARDRAIL IS NOT SHOWN.
- 2) THE ENTIRE BRIDGE DECK SHALL BE OVERLAYED USING ITEM 848- MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (3" THICKNESS)
- 3) THE TOP OF THE PROPOSED OVERLAY SHALL BE 2" HIGHER THAN THE TOP OF THE EXISTING CONCRETE DECK.
- 4) THE EXISTING PARAPETS SHALL BE REPLACED. SEE SHEETS 77-79 FOR DETAILS.
- 5) THE EXISTING EXPANSION JOINTS SHALL BE REPLACED. SEE SHEETS 80-81 FOR DETAILS
- 6) THE EXISTING MEDIAN JOINT SHALL BE FILLED WITH A ELASTOMERIC COMPRESSION SEAL. SEE SHEETS 82 FOR DETAILS
- 7) SEE SHEET 83 FOR SEALING DETAILS.

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY SHEET, SHEET NO. 57

DESIGN FILE: I:\projects\18640\Struct\ERI-4-8.4\plan.dgn  
WORKSTATION: claughre DATE: 10/24/03

PLAN VIEW  
ERI-4-0841  
OVER S.R. 2

ERI-4-0.00

DESIGN AGENCY  
DISTRICT THREE

DATE  
10/03

DRAWN  
GTS

CHECKED  
CAL

REVIEWED  
RDN

STRUCTURAL FILE NUMBER  
2201356

DESIGNED  
DCM

REVISED

DATE

FILE NUMBER

DRAWN

CHECKED

REVIEWED

DATE

FILE NUMBER

DRAWN

CHECKED

REVIEWED

DATE

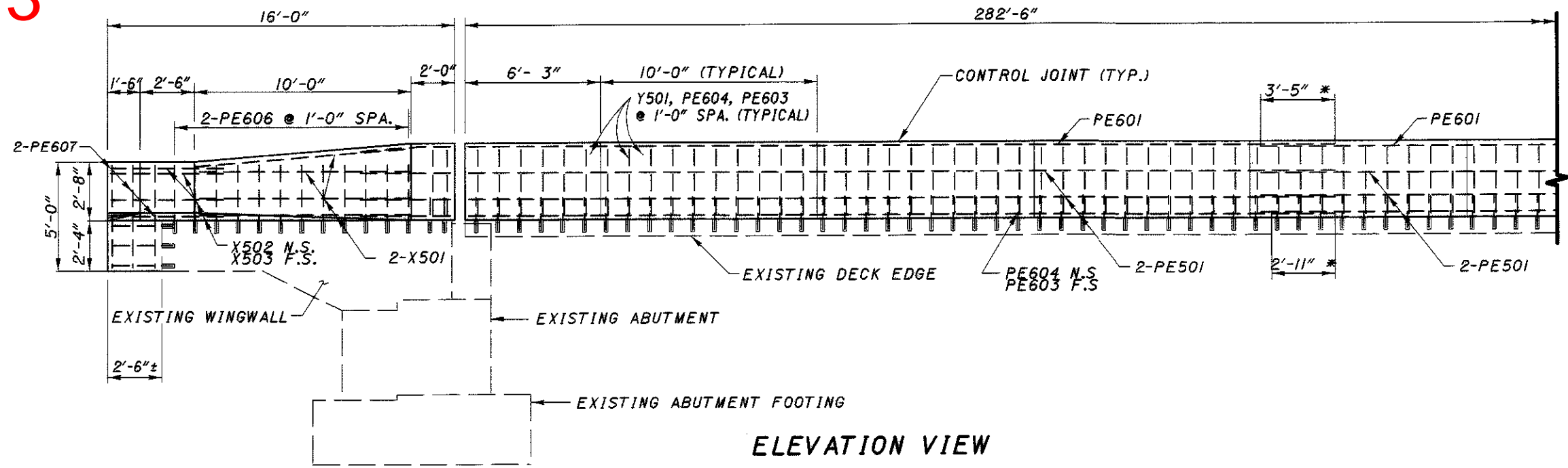
FILE NUMBER

DRAWN

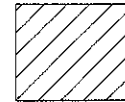
FILE NUMBER

DRAWN

# ERI-2-0813



**ELEVATION VIEW**



ITEM 202- PORTION OF STRUCTURE REMOVED (PARAPET)

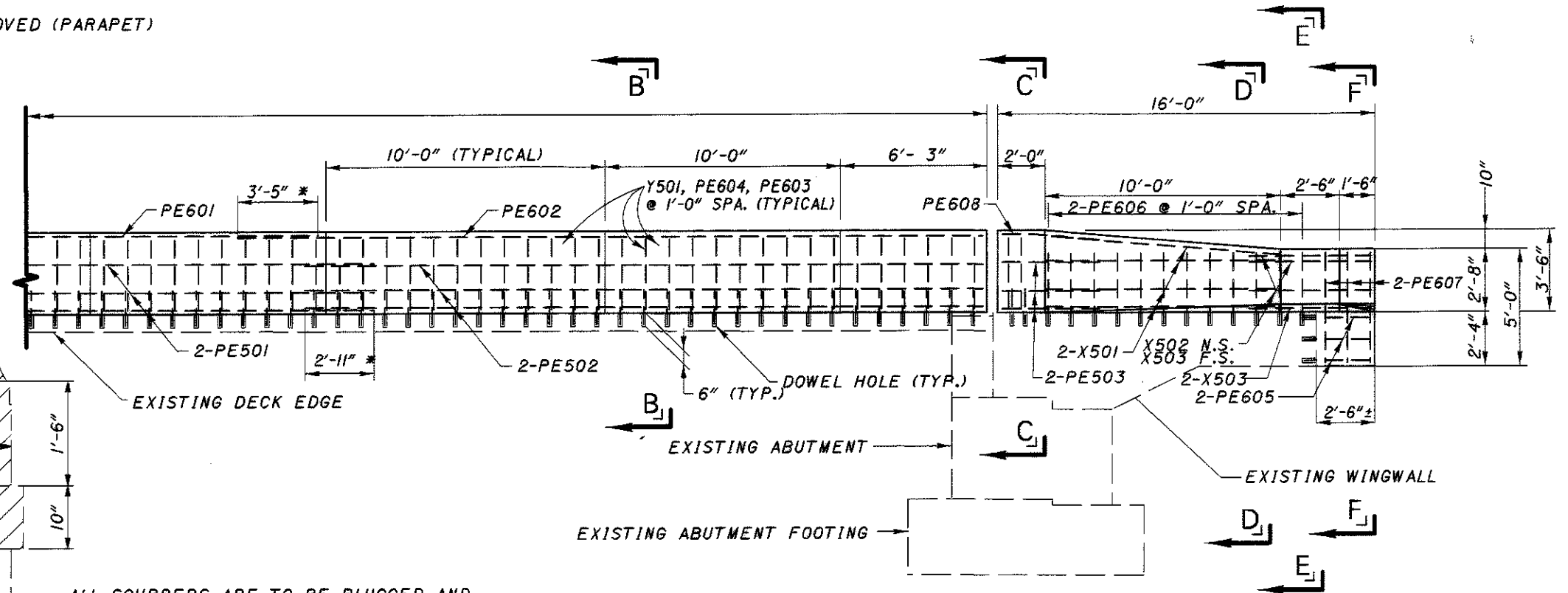
EXIST. BULB ANGLE TO BE REMOVED. INCLUDE ALL ASSOCIATED COSTS IN ITEM 202 - PORTION OF STRUCTURE REMOVED (PARAPET).

ALUM. RAIL TO BE REMOVED (COST INCLUDED IN PARAPET REMOVAL)

PARAPET TO BE REMOVED

EXISTING PARAPET (TYPICAL)

ALL SCUPPERS ARE TO BE PLUGGED AND FILLED TO THE BOTTOM OF THE DECK WITH ITEM 511 CLASS S, CONCRETE. INCLUDE ALL ASSOCIATED COST IN ITEM 511 CLASS S, CONCRETE, MISC: SCUPPERS



**ELEVATION VIEW**

ITEM	QUANTITY	UNIT	DESCRIPTION
202	104	CUBIC YARD	PORTION OF STRUCTURE REMOVED (PARAPET)
509	13,700	POUND	EPOXY COATED REINFORCING STEEL
510	1252	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT
511	99.4	CUBIC YARD	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (PARAPET)
511	2	CUBIC YARD	CLASS S CONCRETE, MISC: SCUPPERS

ALL QUANTITIES CARRIED TO SHEET NO. 76

NOTES:

1. FOR SECTIONS B-B, C-C, D-D, E-E, AND F-F, SEE SHEET 78.

2. "\*" - MINIMUM LAP

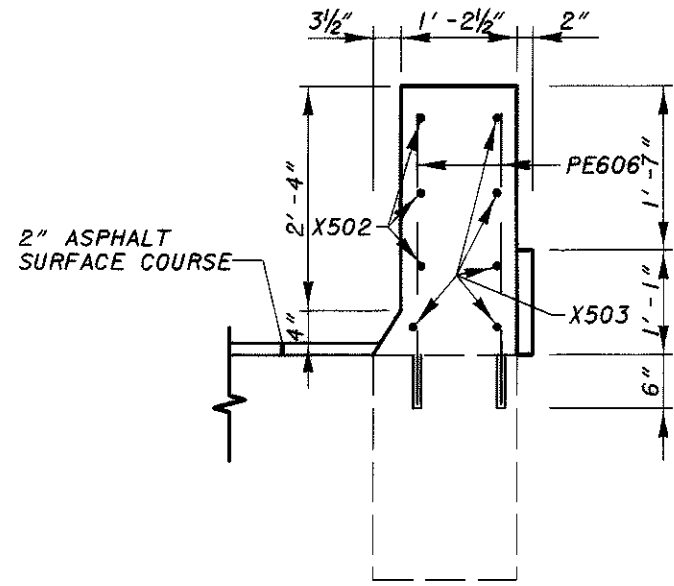
DESIGN FILE: I:\projects\18640\Struct\ERI-4-8.4\parapet.dgn  
WORKSTATION: claughre DATE: 10/24/03

DESIGN AGENCY  
DISTRICT THREE  
PRODUCTION DEPARTMENT

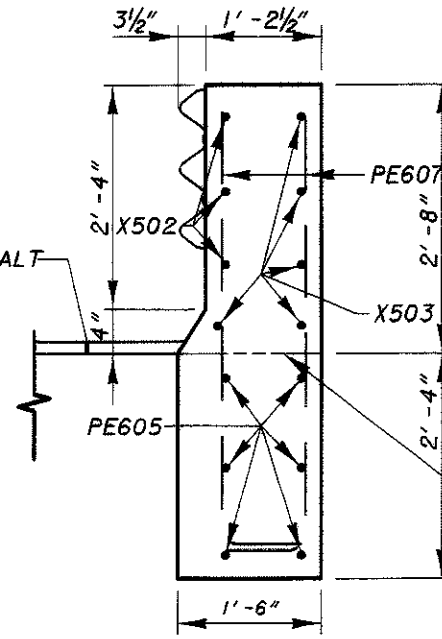
DATE 10/03  
REVIEWED RDN  
STRUCTURE FILE NUMBER 2201356  
DRAWN DCM  
REVISED  
DESIGNED DCM  
CHECKED CAL

PARAPET DETAILS  
ERI-4-0841  
OVER S. R. 2

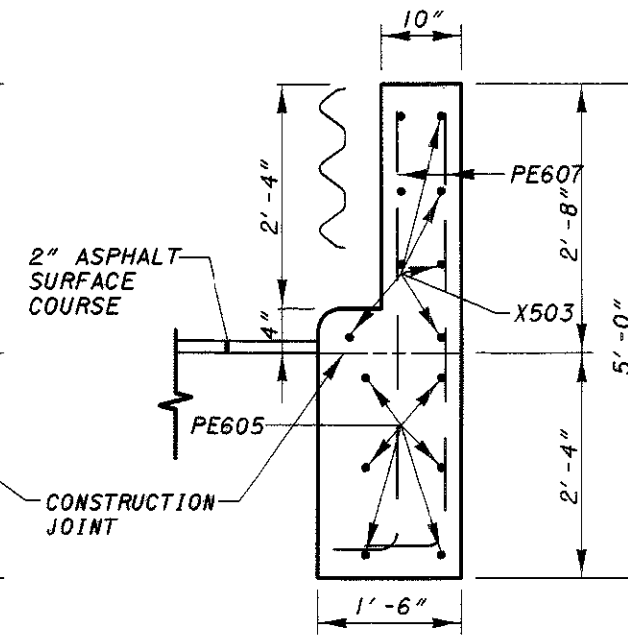
ERI-4-0.00



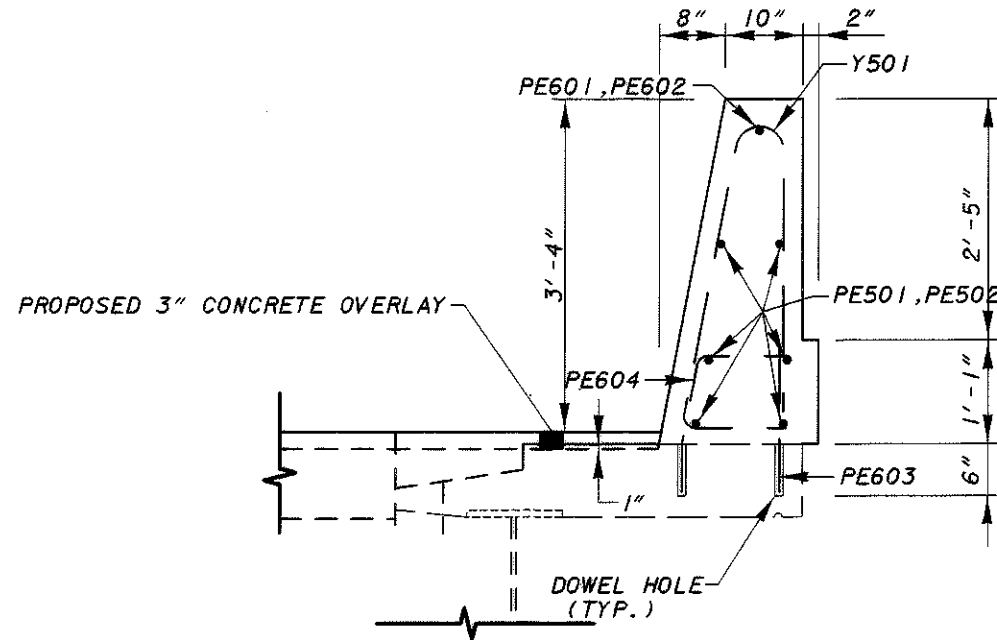
**SECTION D-D**



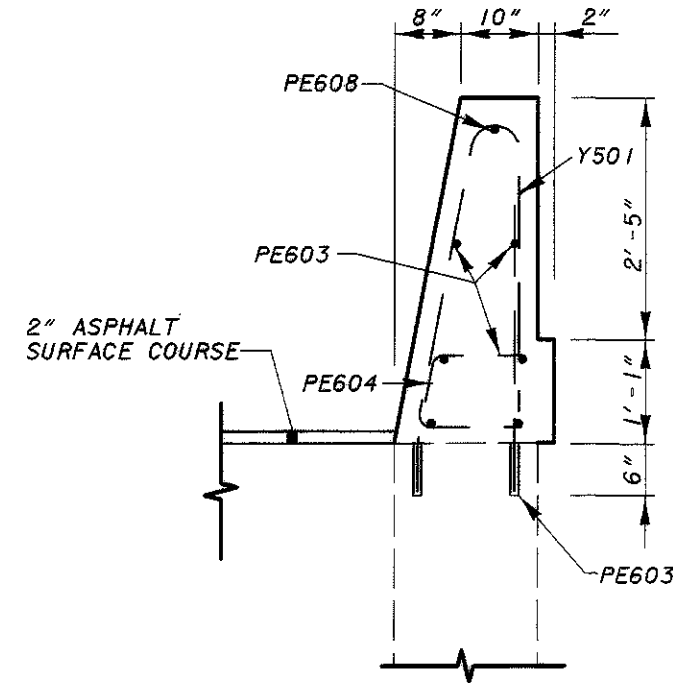
**SECTION E-E**



**SECTION F-F**



**SECTION B-B**



**SECTION C-C**

DESIGN FILE: I:\projects\18640\Struct\ERI-4-8.4\parapet2.dgn  
 WORKSTATION: claughre DATE: 10/24/03

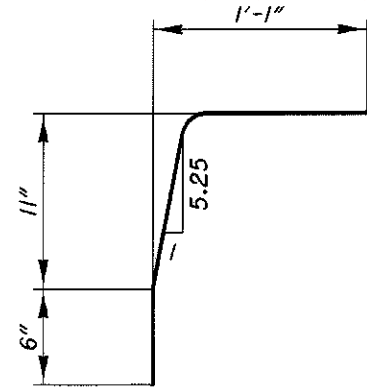
DESIGN AGENCY  
 DISTRICT THREE  
 PRODUCTION DEPARTMENT

DATE	10/03
REVIEWED	RDN
STRUCTURE FILE NUMBER	2201366
DRAWN	DCM
REVISOR	
DESIGNED	DCM
CHECKED	CAL

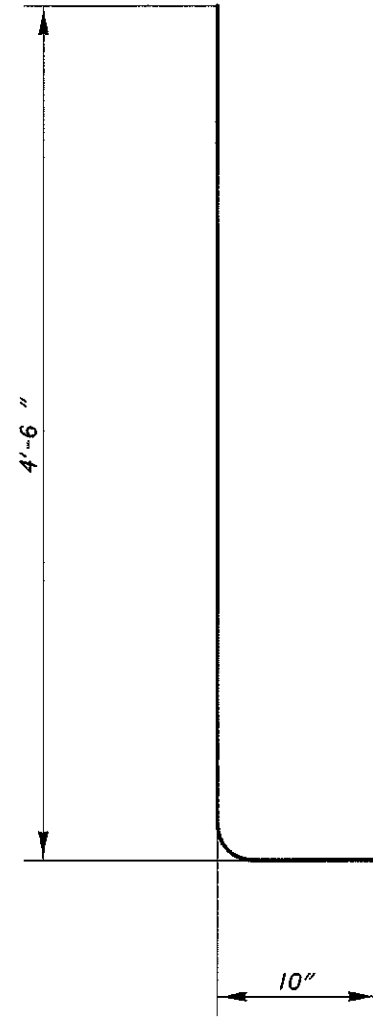
PARAPET DETAILS  
 ERI-4-0841  
 OVER S.R. 2

ERI-4-0.00

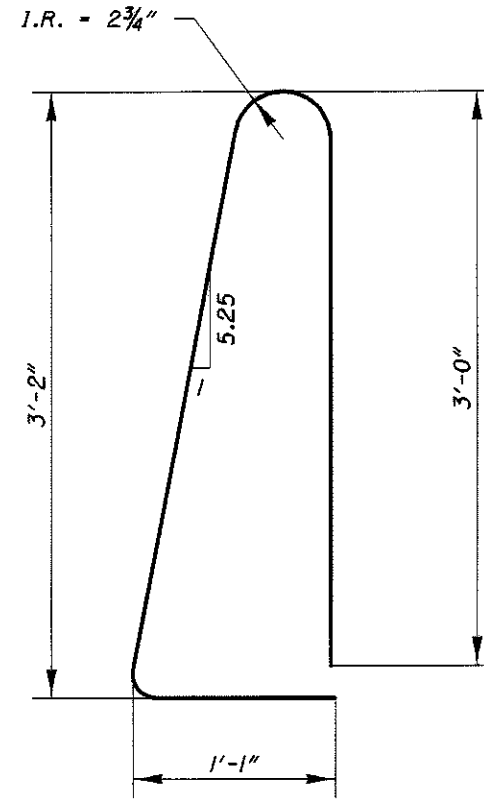
# ERI-2-0813



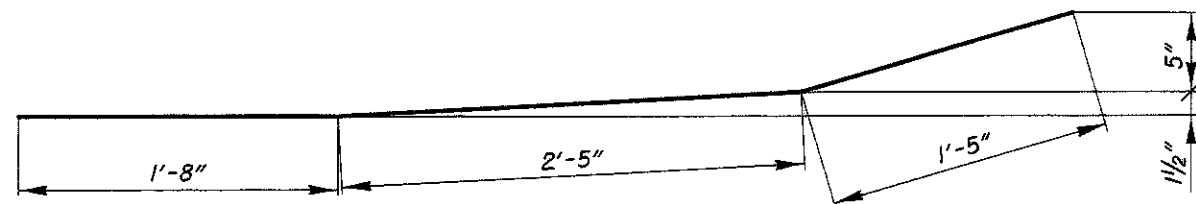
PE604



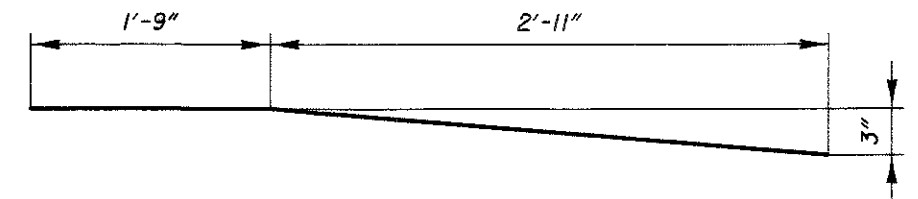
PE607



Y501



X502



PE608

EPOXY COATED REINFORCING STEEL

REINFORCING DATA			QUANTITIES	
MARK	LENGTH	SHAPE	TOTAL	WEIGHT
PE601	40'-0"	STR.	14	841
PE602	25'-11"	STR.	2	78
PE603	1'-6"	STR.	566	1275
PE604	2'-4"	BENT	566	1983
PE605	2'-9"	STR.	24	99
PE606	3'-0"	STR.	96	433
PE607	5'-2"	BENT	24	186
PE608	4'-8"	BENT	4	28
PE501	40'-0"	STR.	84	3504
PE502	22'-5"	STR.	12	281
PE503	3'-10"	STR.	24	96
X501	10'-0"	STR.	32	334
X502	5'-6"	BENT	12	69
X503	5'-6"	STR.	20	115
Y501	7'-5"	BENT	566	4378
TOTAL			*13,700	

\* QUANTITY CARRIED TO SHEET NO. 76

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 WORKSTATION: claughre DATE: 10/24/03

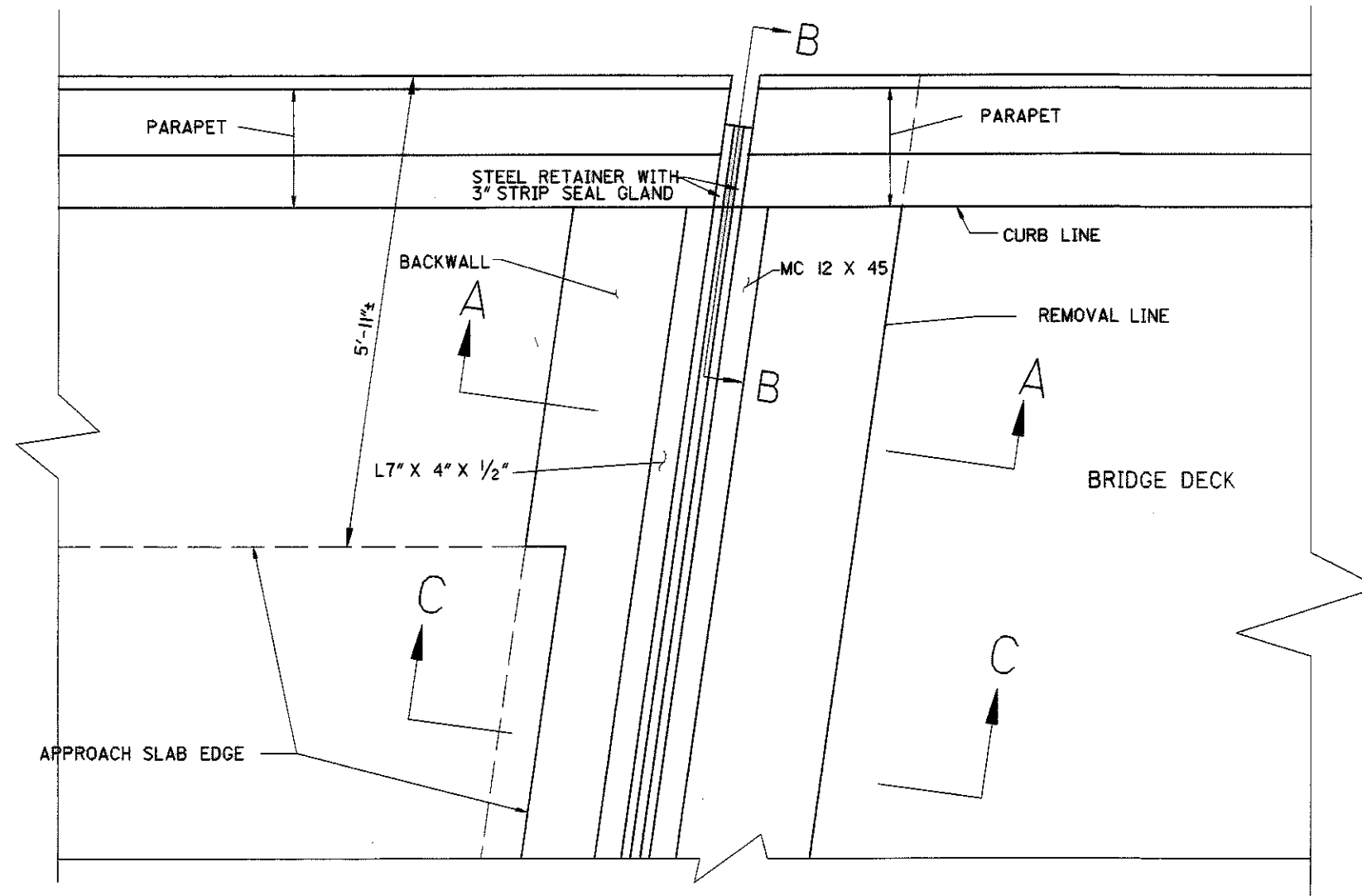
DESIGN AGENCY  
 DISTRICT THREE  
 PRODUCTION DEPARTMENT

DATE  
 10/03  
 STRUCTURE FILE NUMBER  
 2201356

DRAWN  
 DCM  
 DESIGNED  
 DCM  
 CHECKED  
 CAL

PARAPET DETAILS  
 ERI-4-0841  
 OVER S.R. 2

ERI-4-0.00



PART PLAN AT ABUTMENT

ABUTMENT WIDTH = 66'-0"±

ITEM	QUANTITY	UNIT	DESCRIPTION
202	7	CU. YD.	PORTION OF STRUCTURE REMOVED (ABUTMENT)
202	7	CU. YD.	PORTION OF STRUCTURE REMOVED (DECK)
509	2460	POUND	EPOXY COATED REINFORCING STEEL
511	9	CU. YD.	CLASS C CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)
511	7	CU. YD.	CLASS S CONCRETE, SUPERSTRUCTURE, AS PER PLAN (DECK)
516	128	FT.	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL

NOTES:

- 1) THE STRIP SEAL GLAND SHALL BE ONE PIECE ACROSS THE TOTAL WIDTH OF THE STRUCTURE.
- 2) THE STEEL ANGLES AND RETAINERS SHALL HAVE A GAP OF 2" AT CENTERLINE OF STRUCTURE
- 3) FOR DETAILS NOT SHOWN SEE STD. DRW. EXJ-4-87
- 4) SEE SHEET 81 FOR SECTION A-A, B-B, C-C

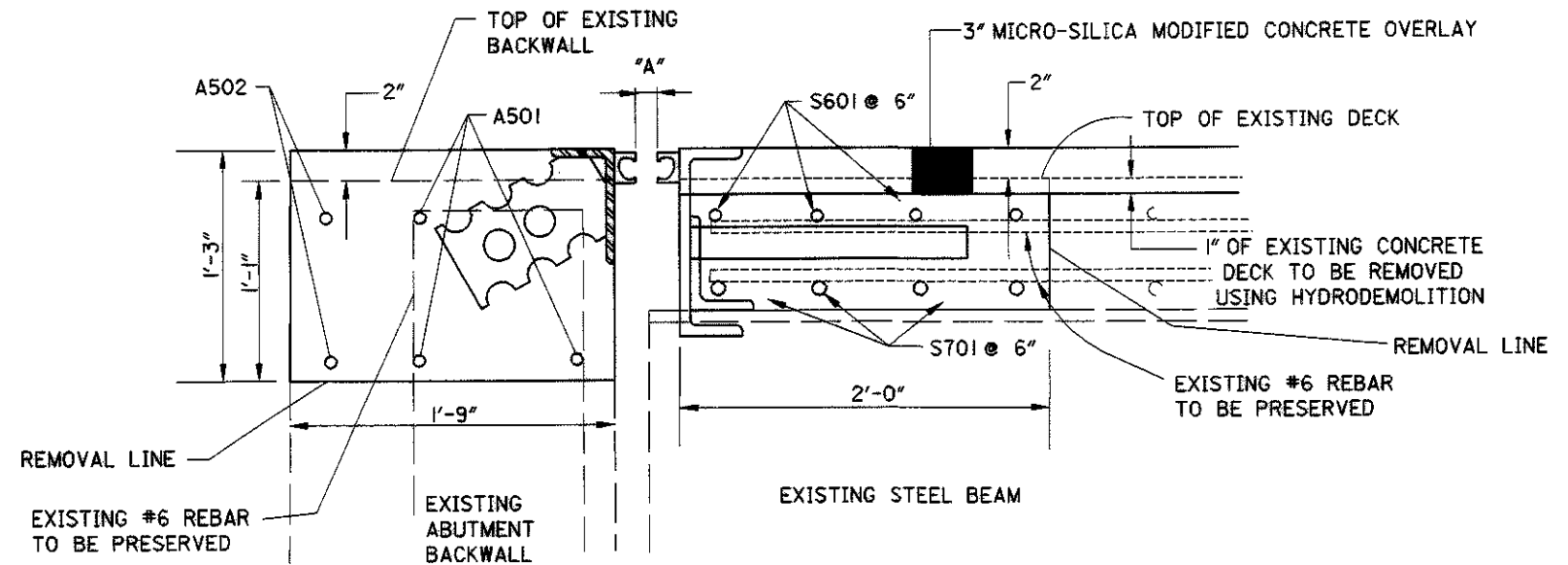
ALL QUANTITIES CARRIED TO SHEET NO. 76

# ERI-2-0813

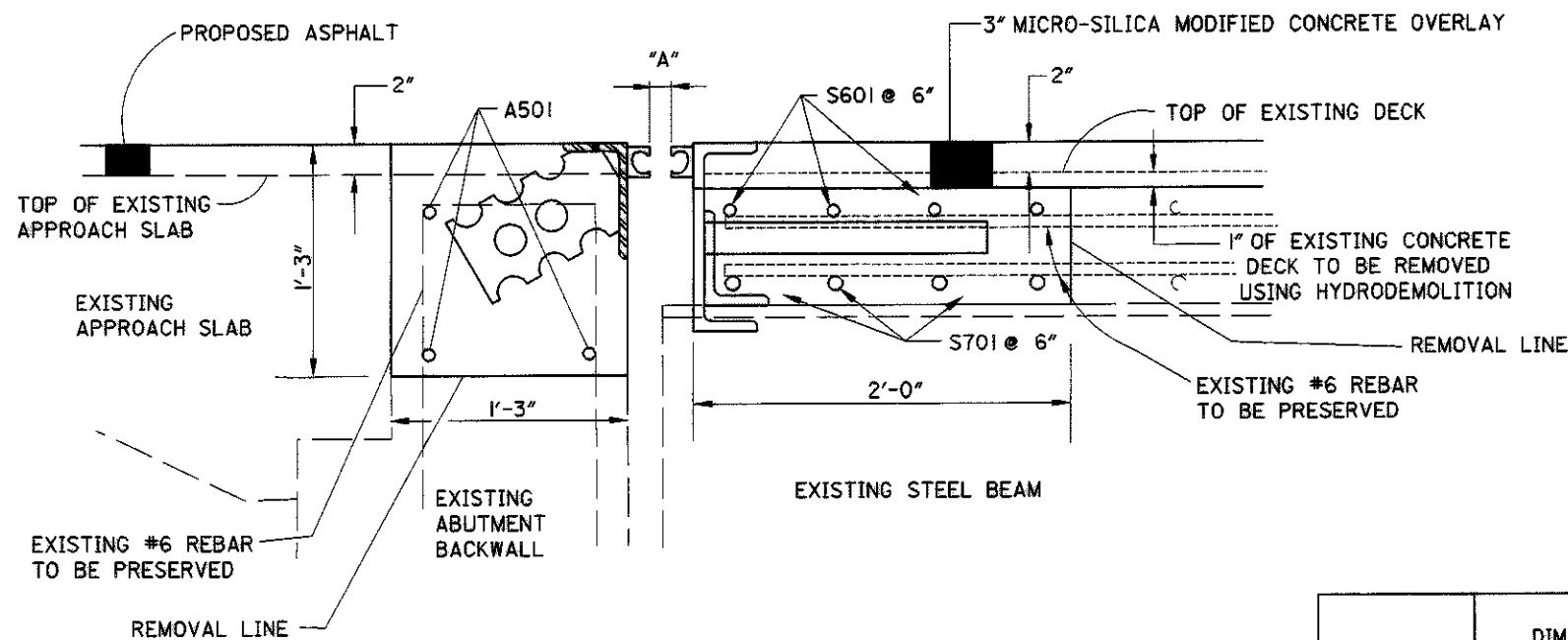
EPOXY COATED REINFORCING TABLE

MARK	NUMBER	LENGTH	TYPE	WEIGHT (LBS)
A501	24	17'-5"	STR.	436
A502	8	5'-9"	STR.	48
S601	32	17'-5"	STR.	837
S701	32	17'-5"	STR.	1139
TOTAL				*2460

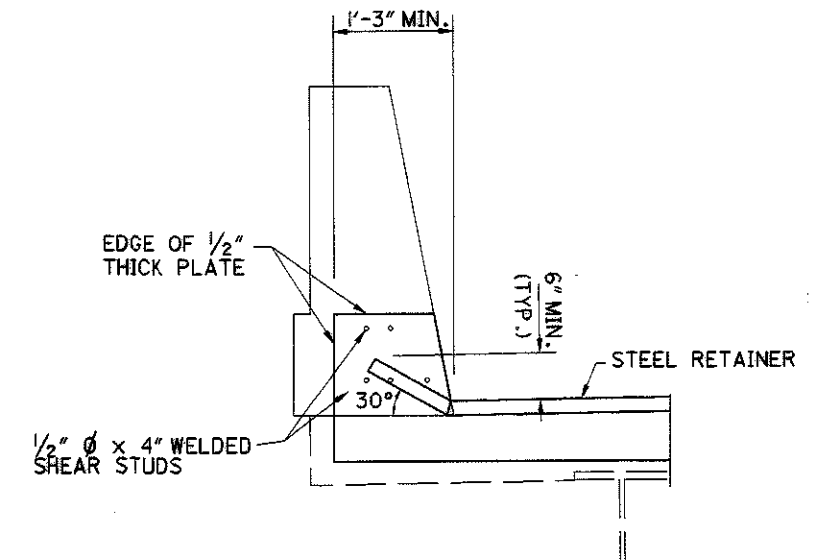
\*QUANTITY CARRIED TO SHEET 80



SECTION A-A



SECTION C-C



SECTION B-B

TEMP.	DIM "A"
30°	1 5/16"
40°	1 3/16"
50°	1 1/16"
60°	1 5/8"
70°	1 1/2"
80°	—
90°	—

NOTES:

- 1) THE STRIP SEAL GLAND SHALL BE ONE PIECE ACROSS THE TOTAL WIDTH OF THE STRUCTURE.
- 2) THE STEEL ANGLES AND RETAINERS SHALL HAVE A 2" GAP AT CENTERLINE OF STRUCTRE
- 3) FOR DETAILS NOT SHOWN SEE STD. DRW. EXJ-4-87
- 4) THE TOP OF PROPOSED BACKWALL SHALL BE 2" ABOVE TOP OF EXISTING BACKWALL

A501, S601 AND S701 SHALL HAVE A MECHANICAL CONNECTOR AT CENTERLINE OF STRUCTURE

# 5 BAR SHALL HAVE A MINIMUM LAP LENGTH = 2'-0"

# 6 BAR SHALL HAVE A MINIMUM LAP LENGTH = 2'-6"

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WORKSTATION: claughre DATE: 10/24/03

DISTRICT THREE

REVIEWED DATE 10/03  
RDN  
STRUCTURAL FILE NUMBER 2201356

DESIGNED DCM  
CHECKED CAL  
DRAWN DCM  
REVISED

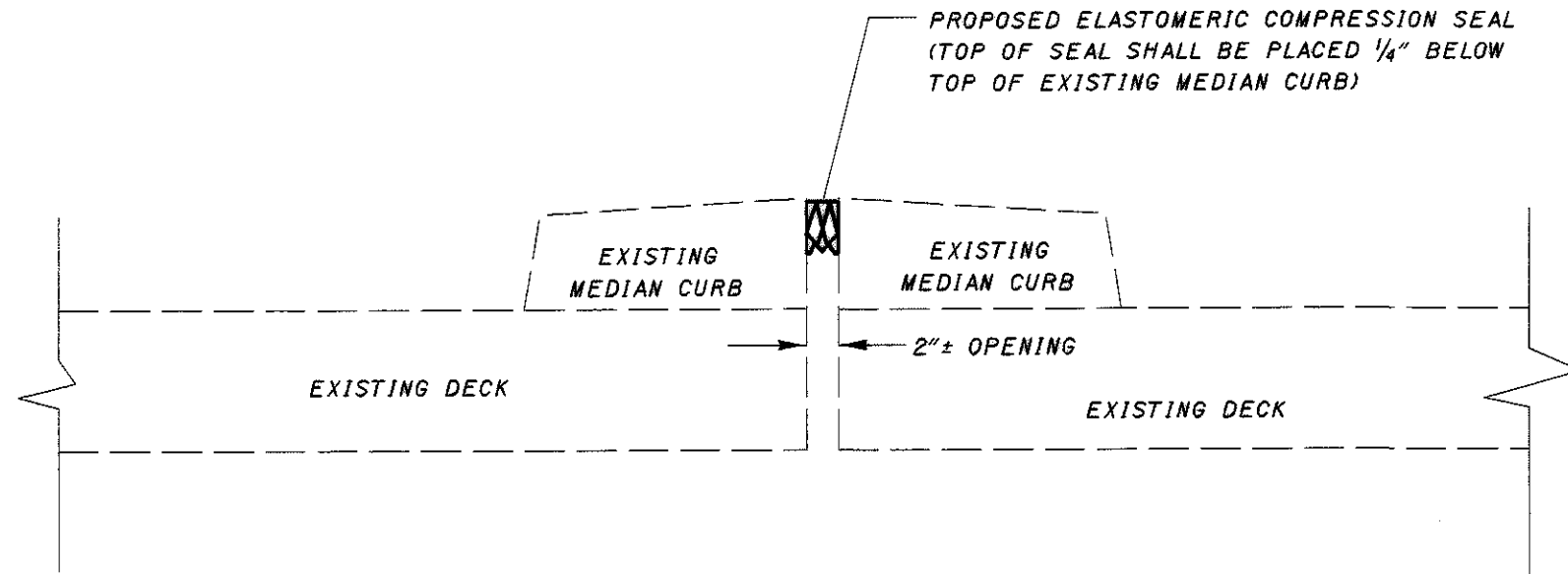
EXPANSION JOINT  
ERI-4-081  
OVER S.R. 2

ERI-4-0.00

81  
87



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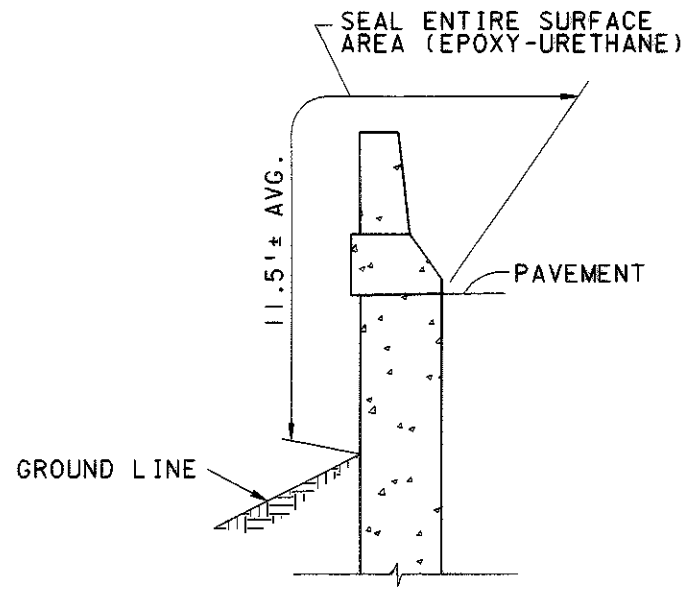


**NOTES:**

- 1) THE ELASTOMERIC COMPRESSION SEAL SHALL BE INSTALLED IN THE EXISTING MEDIAN JOINT AS PER MANUFACTURERS RECOMMENDATIONS.
- 2) THE JOINT SHALL NOT BE INSTALLED UNTIL AFTER THE BEARINGS HAVE BEEN RESET AND THE BRIDGE IS LOWERED TO ITS FINAL POSITION.
- 3) THE ELASTOMERIC COMPRESSION SEAL SHALL BE A WJ-350 BY WATSON, BOWMAN, ACME OR CV-3500 BY THE D.S. BROWN COMPANY OR AN APPROVED EQUAL.

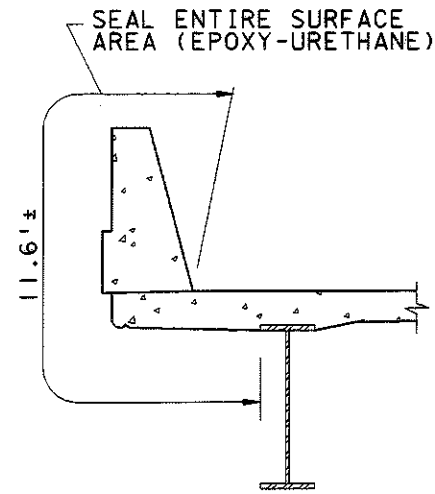
ITEM	QUANTITY	UNIT	DESCRIPTION
516	283	FT.	ELASTOMERIC COMPRESSION SEAL

ALL QUANTITIES CARRIED TO SHEET NO. 76



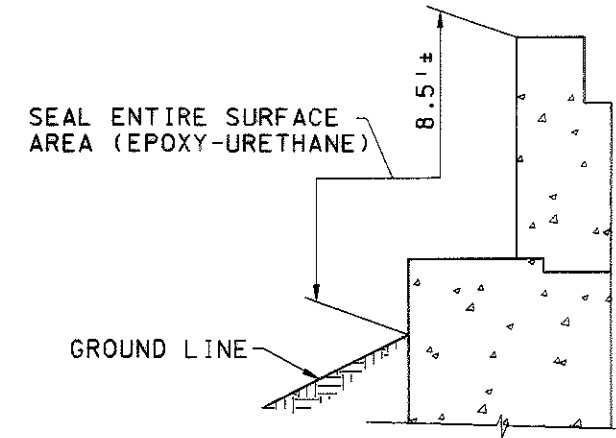
WINGWALL LENGTH = 64' ± TOTAL

WINGWALL



PARAPET ON DECK = 282.5' ± PER SIDE

SUPERSTRUCTURE



ABUTMENT LENGTH = 65.67' ±

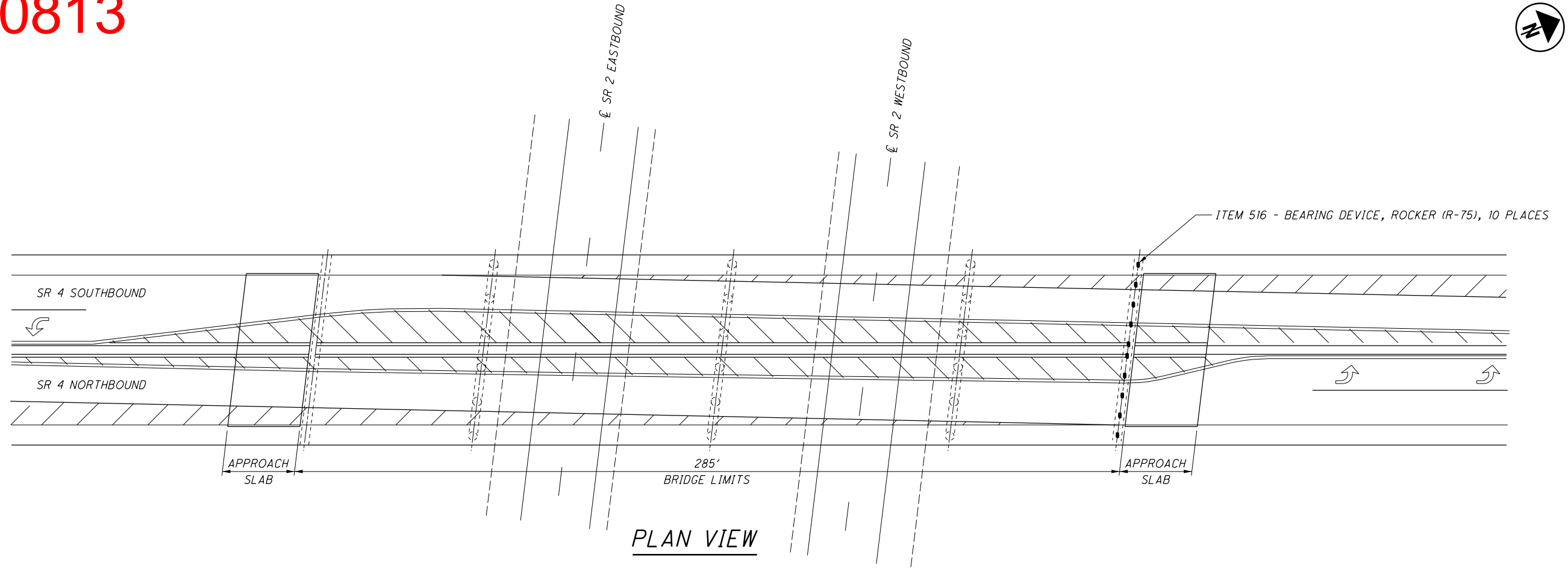
ABUTMENT

ITEM	QUANTITY	UNIT	DESCRIPTION
864	934	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ALL QUANTITIES CARRIED TO SHEET NO. 76



CALCULATED  
JWS  
CHECKED  
CAD

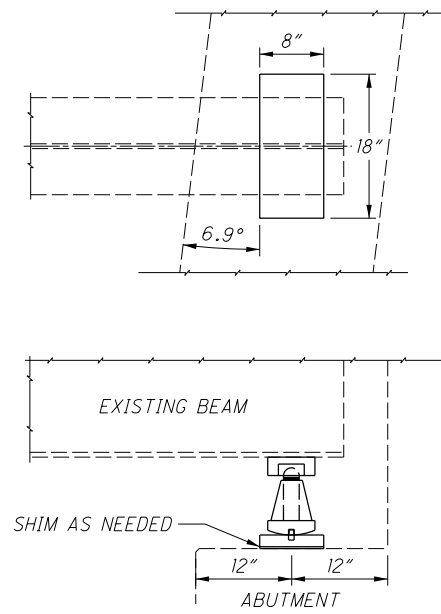


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**NOTES:**

- 1.) BEARING RESET - REFURBISH & RESET ALL 10 R75 ROCKER BEARINGS AT FORWARD ABUTMENT & PROVIDE SHIMS
2. SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.

ESTIMATED QUANTITIES - ERI-4-8.43 - (05/NHS/BR)			
ITEM	QUANTITY	UNIT	DESCRIPTION
516	10	EACH	SPECIAL - REFURBISH AND RESET BEARING
516	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN



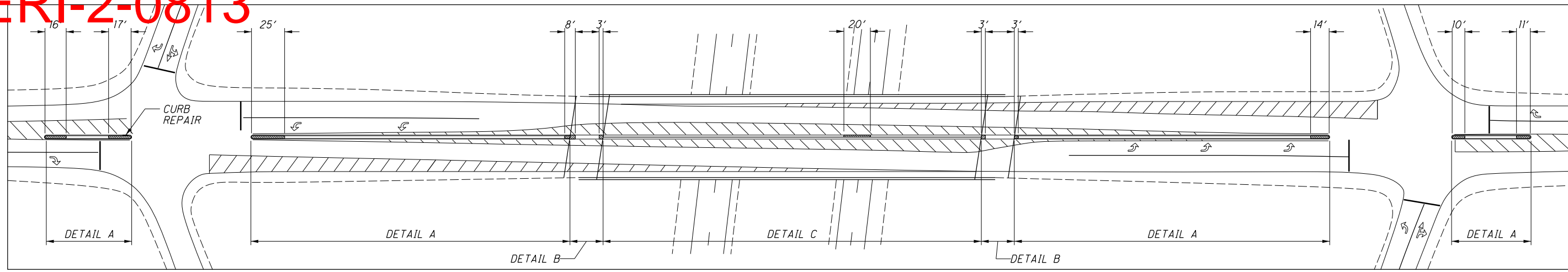
**R-75 ROCKER DETAIL**

**STRUCTURE DETAILS**  
**ERI-4-8.43**

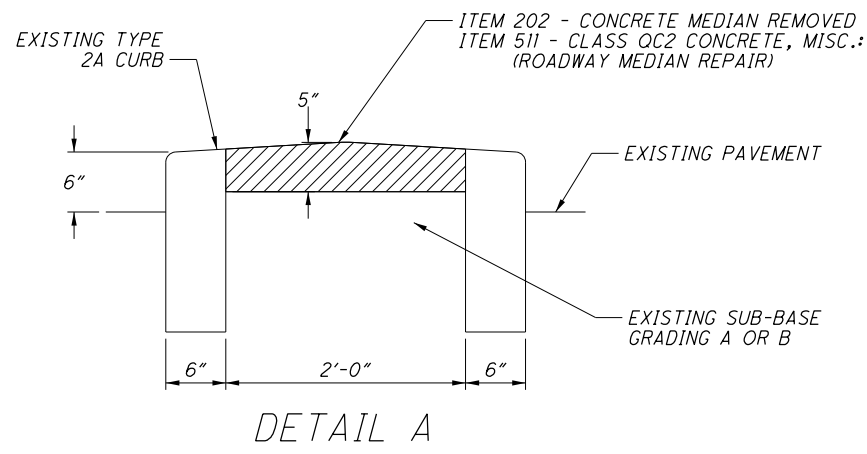
**HUR-4-6.68**  
**ERI-4-0.00**

# ERI-2-0813

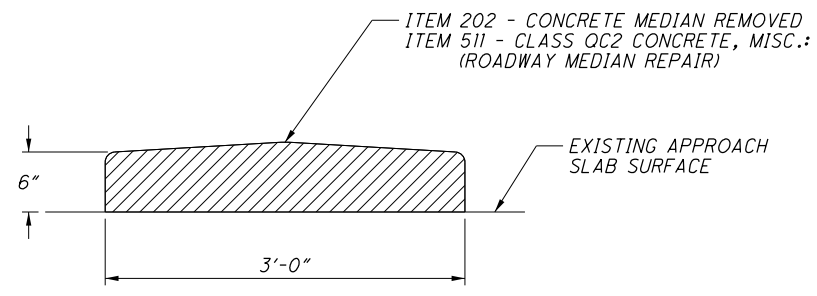
CALCULATED  
JWS  
CHECKED  
CAD



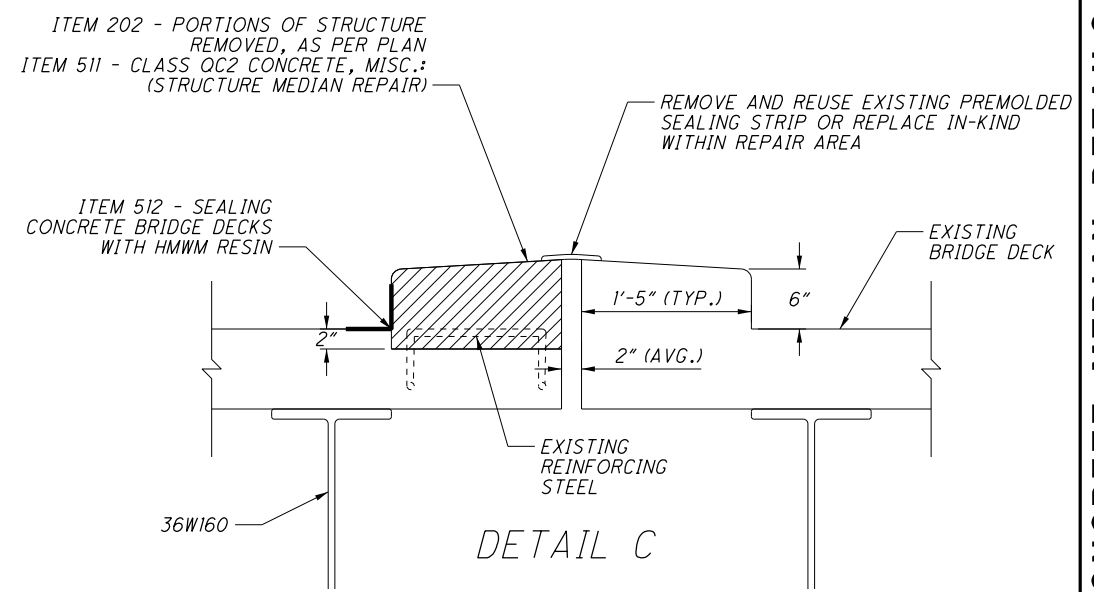
PLAN VIEW



DETAIL A



DETAIL B



DETAIL C

LEGEND:  
 : INDICATES REPAIR AREAS

ESTIMATED QUANTITIES - MEDIAN REPAIRS				
ITEM	QUANTITY	UNIT	FUNDING	DESCRIPTION
202	3	SY	05/NHS/BR	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	36	SY	03/S<2/PV	CONCRETE MEDIAN REMOVED
202	4	FT	03/S<2/PV	CURB REMOVED
511	5	CY	03/S<2/PV	CLASS QC2 CONCRETE, MISC.: (ROADWAY MEDIAN REPAIR)
511	2	CY	05/NHS/BR	CLASS QC2 CONCRETE, MISC.: (STRUCTURE MEDIAN REPAIR)
512	2	SY	05/NHS/BR	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	20	FT	05/NHS/BR	STRUCTURAL JOINT OR JOIN SEALER, MISC.: REMOVE AND REPLACE SEALING STRIP OR REPLACE IN-KIND
609	4	FT	03/S<2/PV	CURB, TYPE 2-A

**CONCRETE MEDIAN DETAILS**  
**ERI-4, SLM: 8.3-8.6**

**HUR-4-6.68**  
**ERI-4-0.00**

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