

STATE OF MAINE  
STATE HIGHWAY COMMISSION



ROUTE NO. 7 BRIDGE

OVER

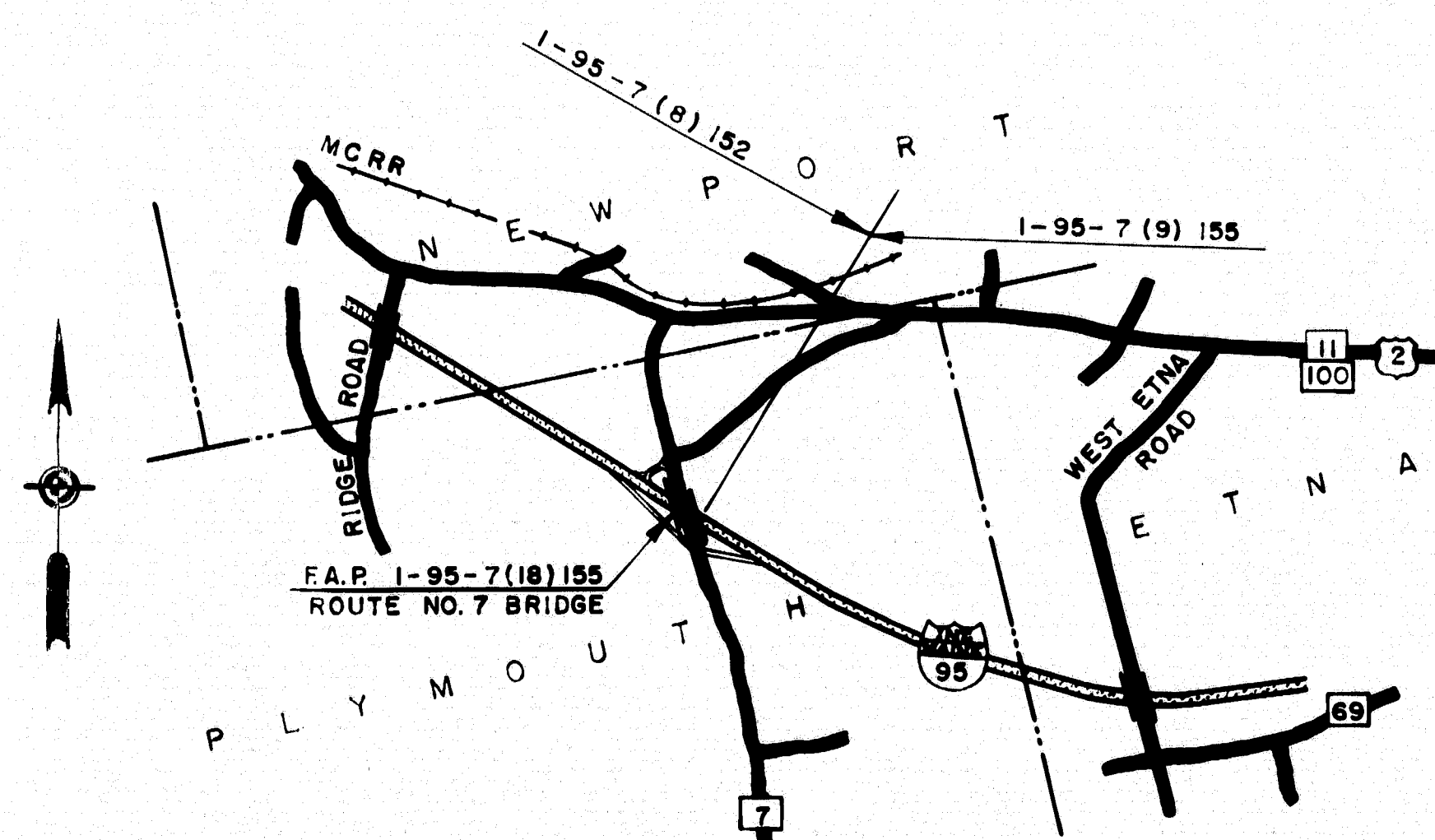
INTERSTATE NO. 95

IN THE TOWN OF

PLYMOUTH

PENOBSCOT COUNTY

FEDERAL AID PROJECT NO. I-95-7 (18)155



**LOCATION MAP**  
APPROX. SCALE - 1 INCH = 1 MILE

**INDEX OF SHEETS**

- 1. TITLE SHEET
- 2-3-4. SURVEY (ESTIMATE OF QUANTITIES SH. 4)
- 5 thru 12. CROSS SECTIONS
- 13. BORINGS
- 14. STRATIGRAPHIC PROFILE
- 15. GENERAL PLAN (ESTIMATE OF BRIDGE QUANTITIES)
- 16. ABUTMENT NO. 1
- 17. GRANITE CURB, PILE PLAN, & APPROACH SLAB
- 18. ABUTMENT NO. 2
- 19. PIERS
- 20. STRUCTURAL STEEL - ERECTION DIAGRAM
- 21. STRUCTURAL STEEL - DETAILS
- 22. SHEAR CONNECTORS & BEARINGS
- 23-24. SUPERSTRUCTURE
- 25. BLOCKING
- 26. REINFORCING STEEL & RAIL
- 26 A. STANDARDS

**TRAFFIC**

A.D.T. 1960 495  
A.D.T. 1980 685  
D.H.V. 82  
T 11 %  
D 60 %  
V 60 m.p.h.

APPROVED:  
MAINE STATE HIGHWAY COMMISSION

*David W. Sturges* CHAIRMAN  
*Charles J. Williams* CHIEF ENGINEER  
DATE

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS  
REGION I

APPROVED:

DISTRICT ENGINEER DATE



D. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(1B)	2	26

# **UTILITY LEGEND**

- Existing Pole
- Proposed Pole Permanent

Permanent Power & Telephone Lines

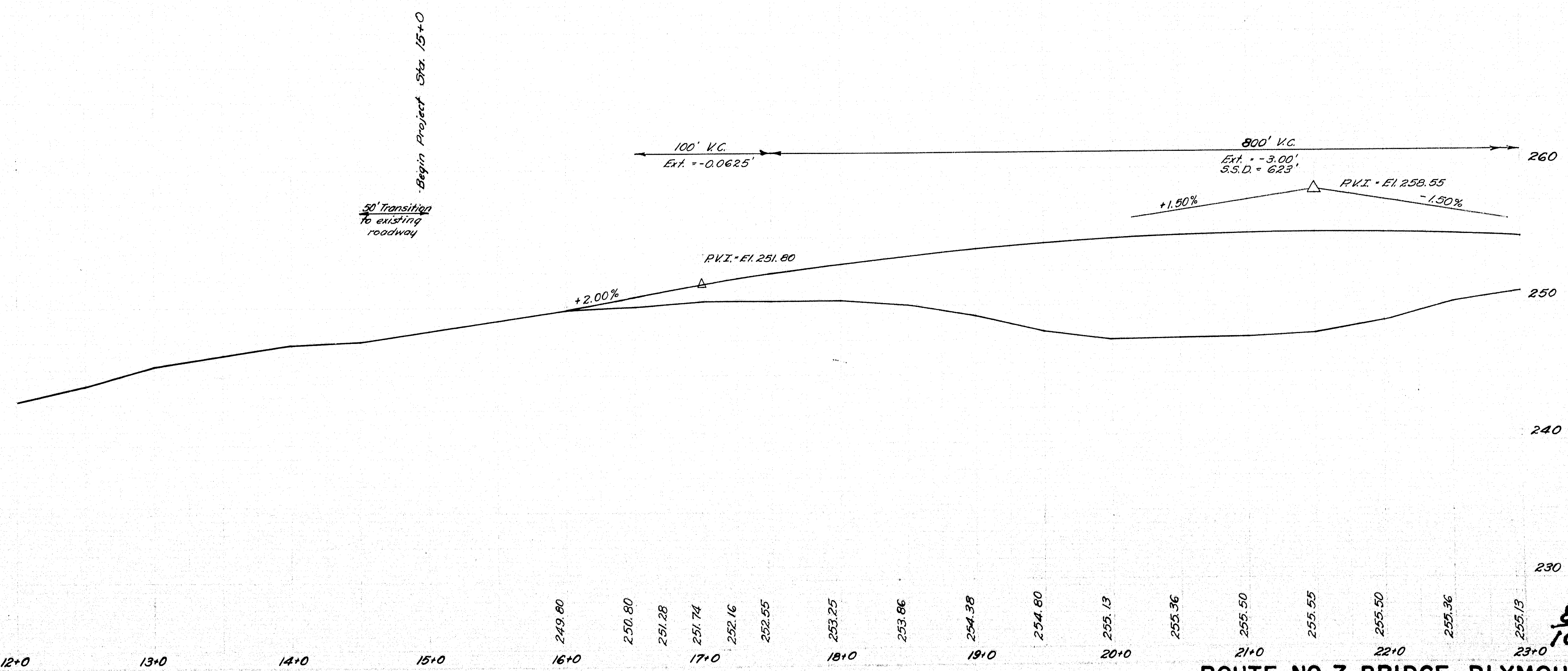
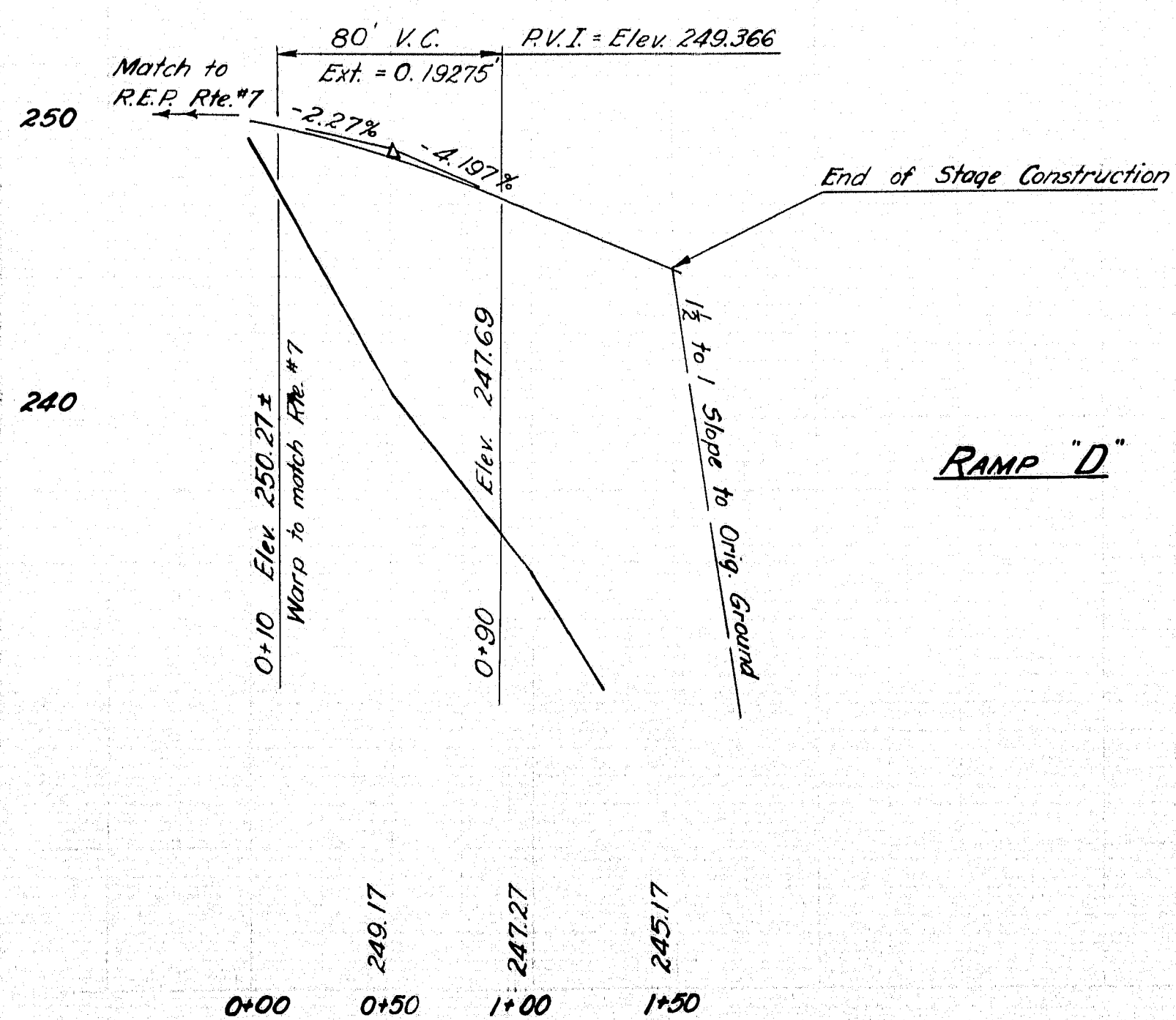
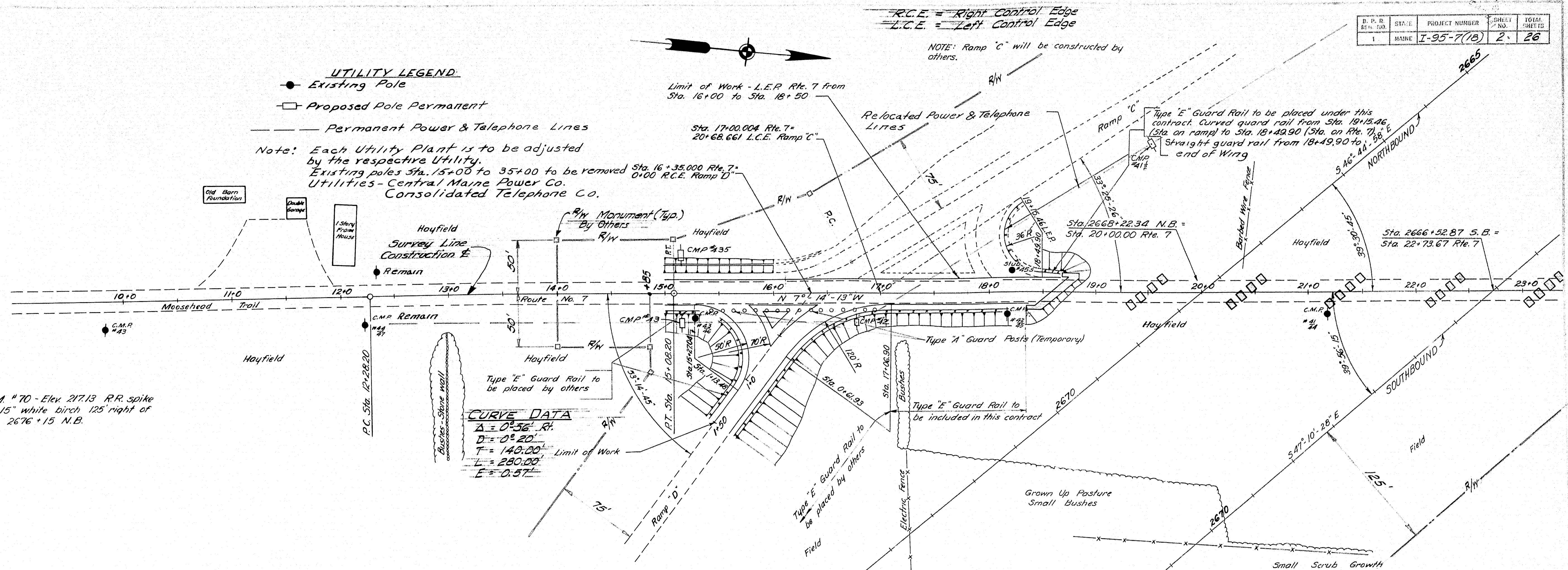
Note: Each Utility Plant is to be adjusted by the respective Utility.  
Existing poles Sta. 15+00 to 35+00 to be removed Sta. 16+35.000 Rte. 7.  
Utilities - Central Maine Power Co.  
Consolidated Telephone Co.

BENCHMARK - B.M. #70 - Elev. 217.13 R.R. spike in 15" white birch 125' right of Sta. 26+76+15 N.B.

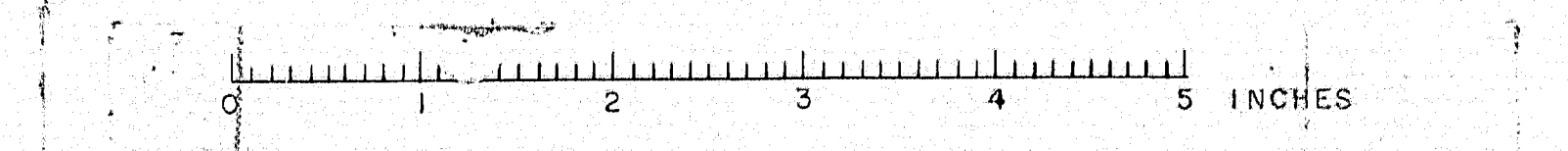
**CURVE DATA**  
A = 0°56' R.  
D = 0°20'  
T = 140.00'  
L = 280.00'  
E = 0.57

R.C.E. = Right Control Edge  
L.C.E. = Left Control Edge

NOTE: Ramp 'C' will be constructed by others.



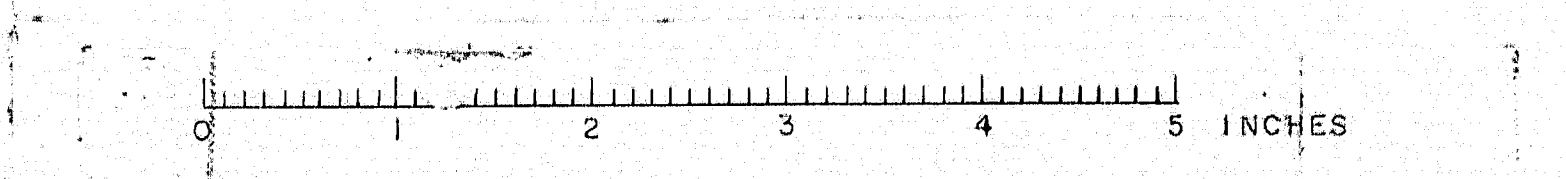
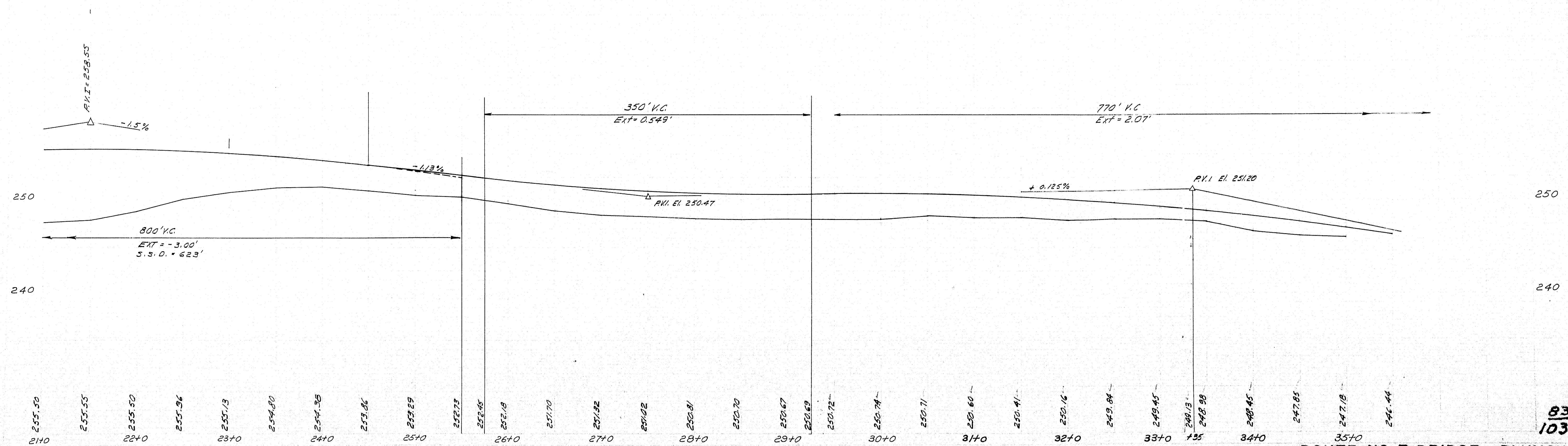
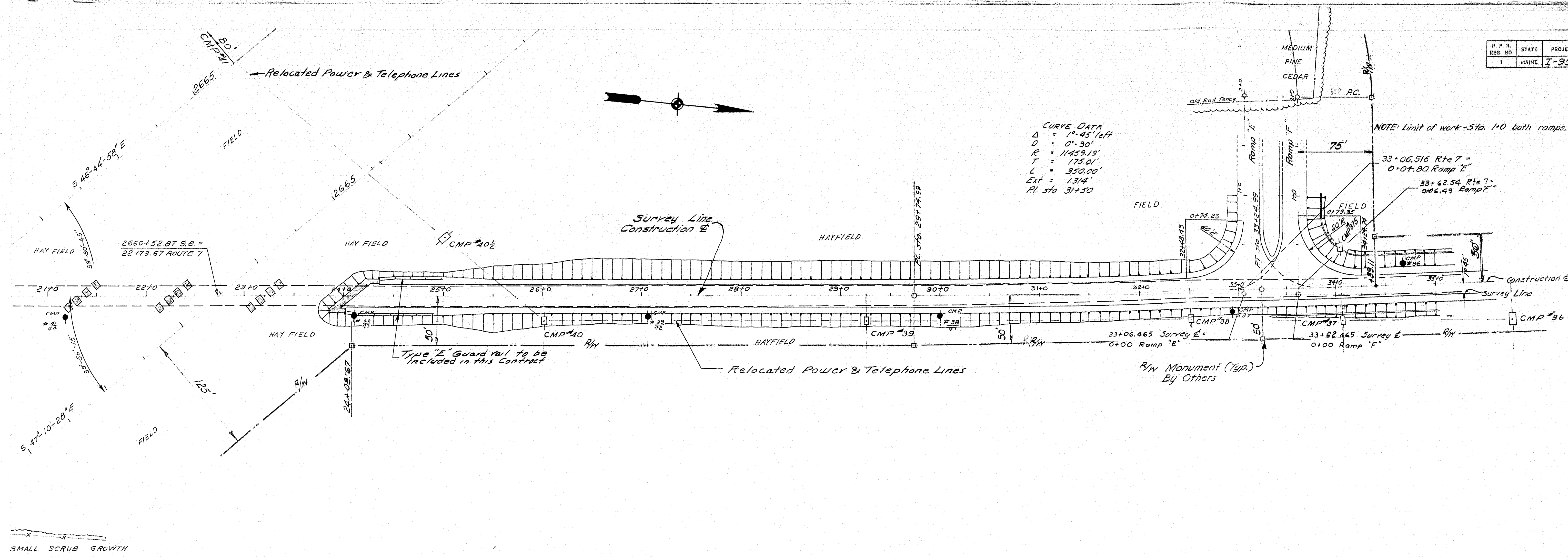
ROUTE NO. 7 BRIDGE-PLYMOUTH



Design: F. Barnes  
Trace: F. Barnes  
Check: H. H. E.

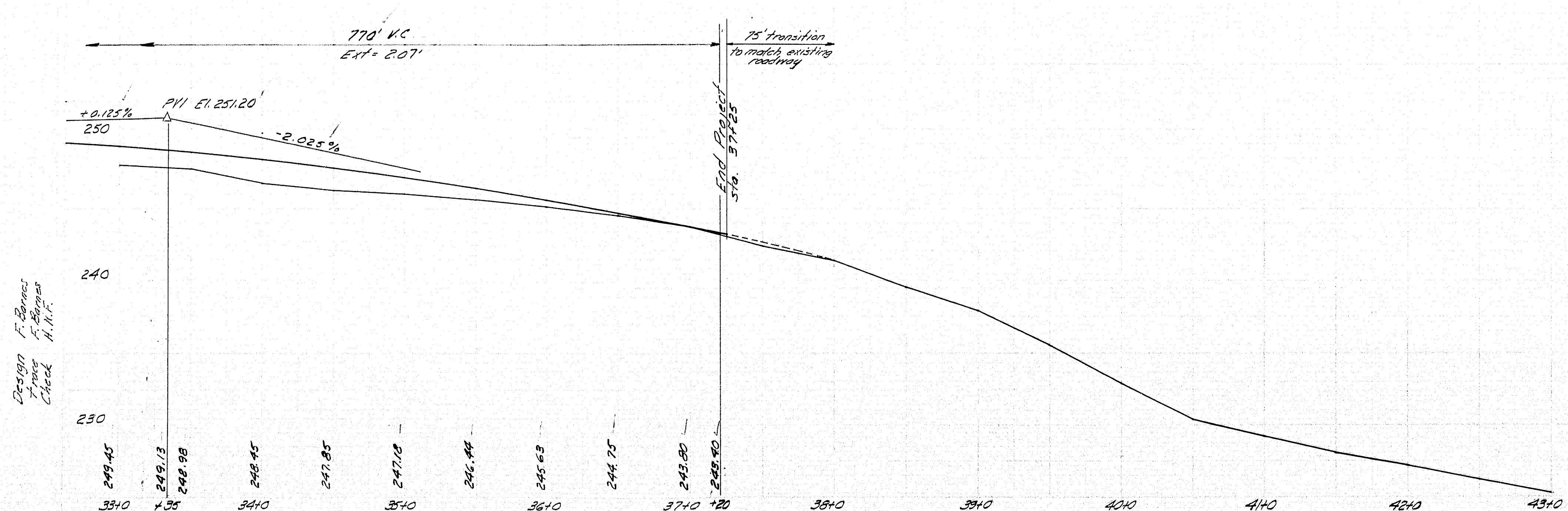
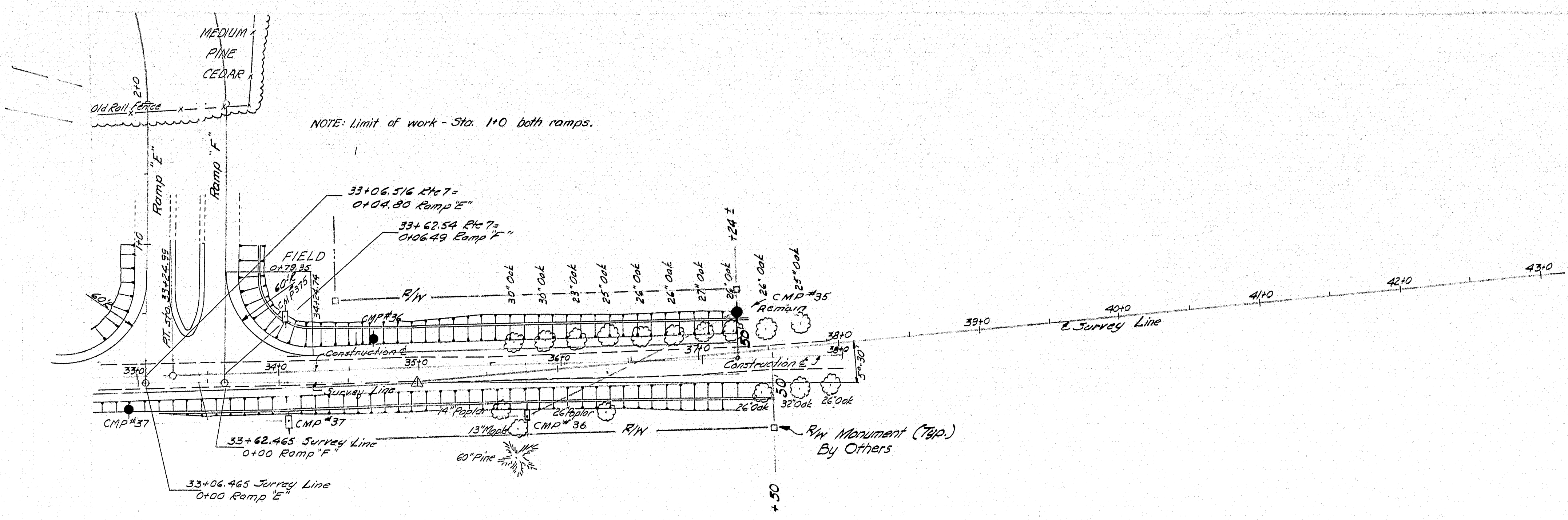
83  
102



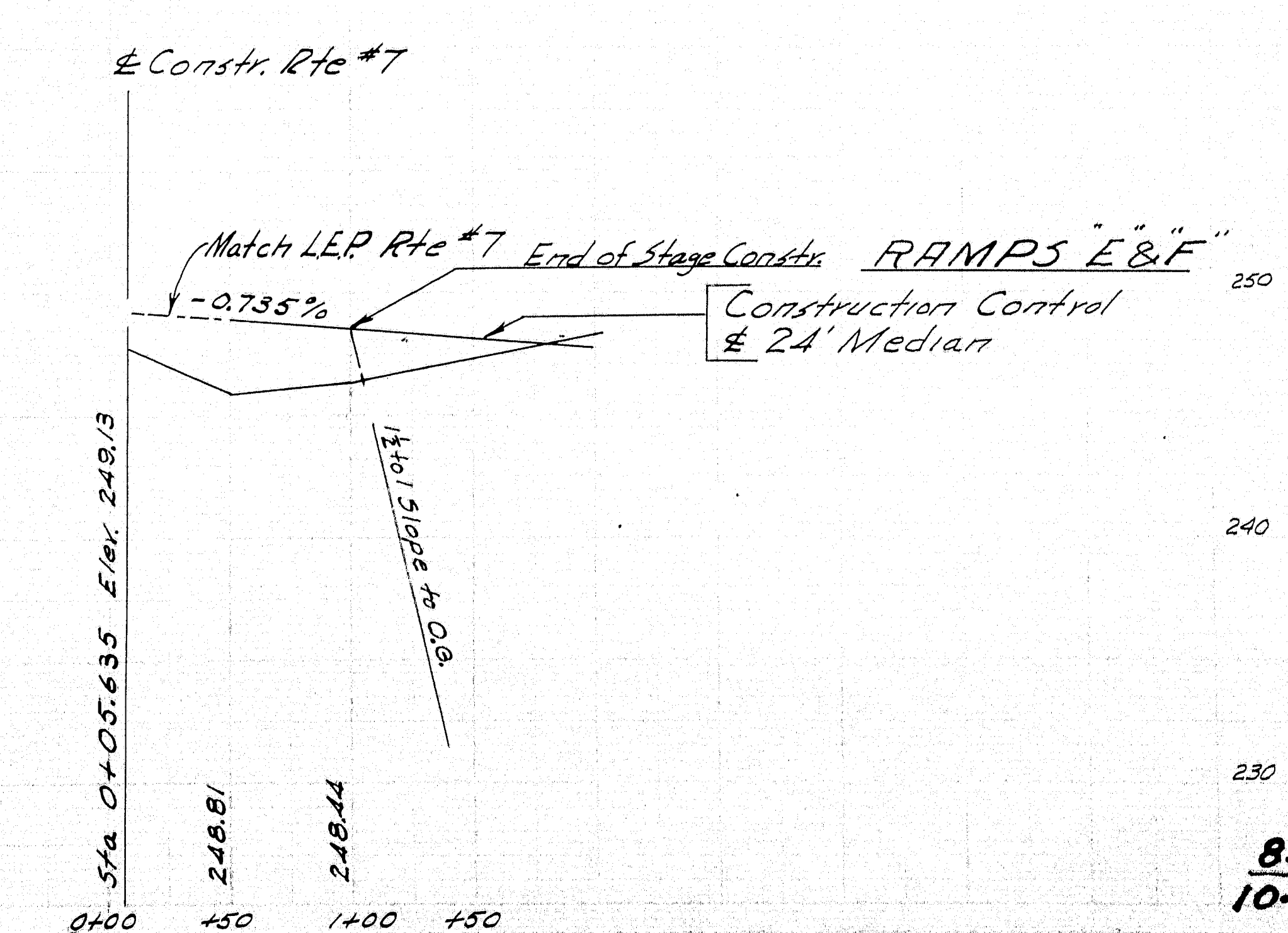




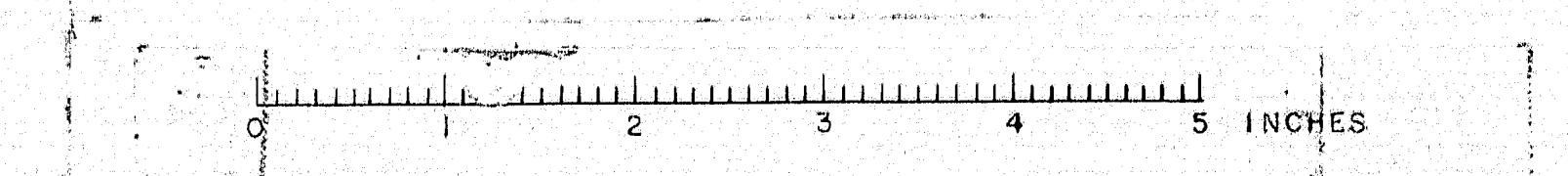
ESTIMATE OF QUANTITIES		
ITEM NO.	DESCRIPTION	QUANTITY
202-6	Removing Trees (Over 24")	15 each
203-9	Earth Excavation	2350 cu. yd.
204-12	Structural Earth Excavation Abutments & Retaining Walls	180 cu. yd.
204-14	Structural Earth Excavation Piers	548 cu. yd.
205-3	Common Borrow	5100 cu. yd.
205-9	Granular Borrow	160 cu. yd.
302-7	Gravel Base Course (In Place Measure)	4800 cu. yd.
302-9	Crushed Gravel Base Course (In Place Measure)	715 cu. yd.
303-5	Overhaul (In Place Measure)	10600 yd.
303-6	Overhaul (Pit Measure)	300 yd.
401-1	Gravel Surface Course	140 cu. yd.
404-28	Bituminous Concrete Surface, Type 'A'	170 tons
501-7	Road Tar	3100 gal.
701-33	Portland Cement Concrete Abutments & Retaining Walls	200 cu. yd.
701-35	Portland Cement Concrete Piers	370 cu. yd.
701-40	Portland Cement Concrete Roadway & Sidewalk Slabs on Steel Bridges	550 cu. yd.
701-47	Portland Cement	1670 bbls.
702-103	Structural Steel, Fabricated & Delivered	604000 lbs.
702-104	Structural Steel, Erection	604000 lbs.
702-105	Structural Steel, Field Painting	604000 lbs.
705-13	Reinforcing Steel, Delivered	169300 lbs.
705-14	Reinforcing Steel, Placing	169300 lbs.
705-17	Shear Connectors	Lump Sum
711-6	Cast in Place Concrete Piles	310 lin. ft.
806-7	Aluminum Rail	1115 lin. ft.
807-9	Membrane Waterproofing	1550 sq. yd.
808-6	Slope Paving	630 sq. yd.
901-21	Granite Bridge Curb	1138 lin. ft.
905-27	Guard Rail, Type 'E'	300 lin. ft.
905-35	Guard Posts, Type 'A'	16 each
905-37	Terminal Sections	6 each
905-38	Guard Rail, Type 'E' (Curved)	30 lin. ft.
909-9	Loam Borrow	425 cu. yd.
909-7	Soilfill	270 cu. yd.
910-13	Seeding Method No. 2	44 units
912-7	Hay Mulch	5 tons
913-7	Asphalt Mulch Binder	200 gal.
204-15	Structural Rock Excavation Piers	10 cu. yd.
807-11	Epoxy Resin Surface Sealant	95 sq. yd.



Design F. Barnes  
 Plans F. Barnes  
 Check H. H. F.



ROUTE NO. 7 BRIDGE - PLYMOUTH





Trace, Build  
Check, Barnes

H. L. Lafferty 11/80

£

£ Route 7

To be done by  
others

To be done by  
others

To be done by  
others

Forward of this station  
Work to be done by others

Back of this station  
Work to be done under  
this contract

ACE Ramp 'D'  
24.1  
BREAK  
NORMAL TO LER RAMP 'D'

BREAK

24.1

15  
BEGIN CONST. APPROACHES STA. 15+00  
£ Route 7

+50

245

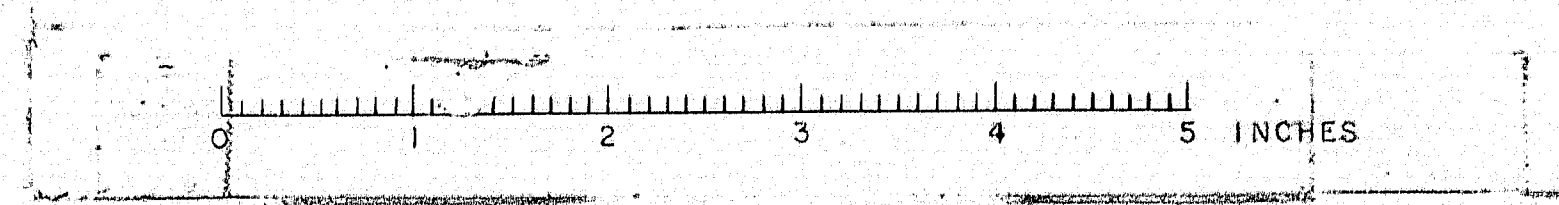
14

240

D. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(12)	5	28

ROUTE NO. 7 BRIDGE - PLYMOUTH

83  
105

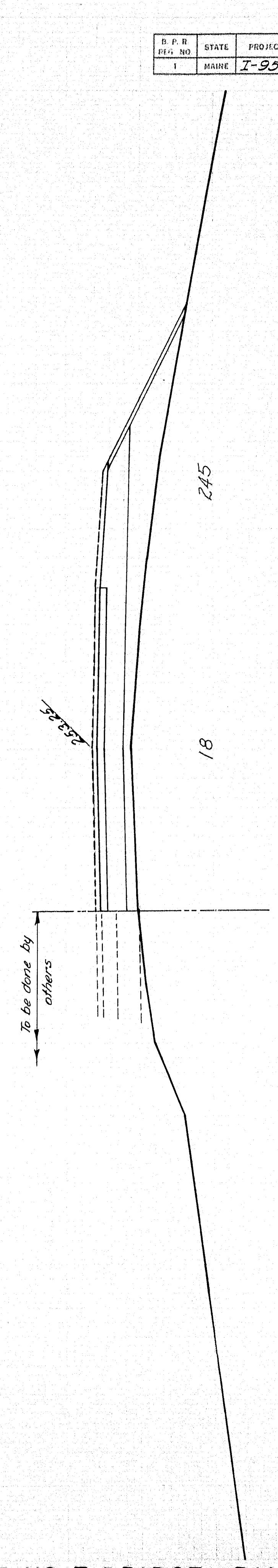
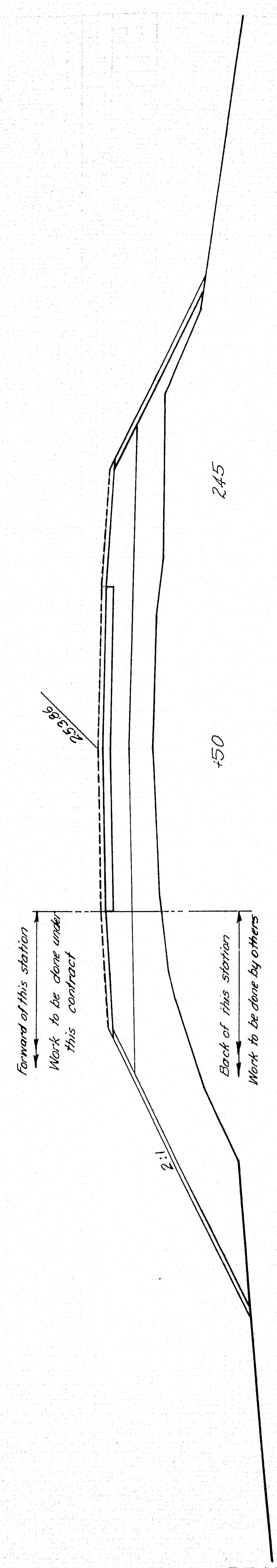
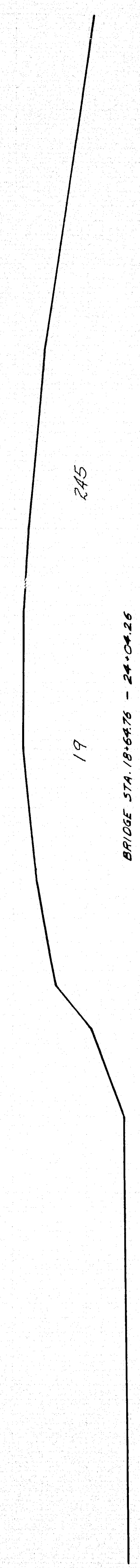
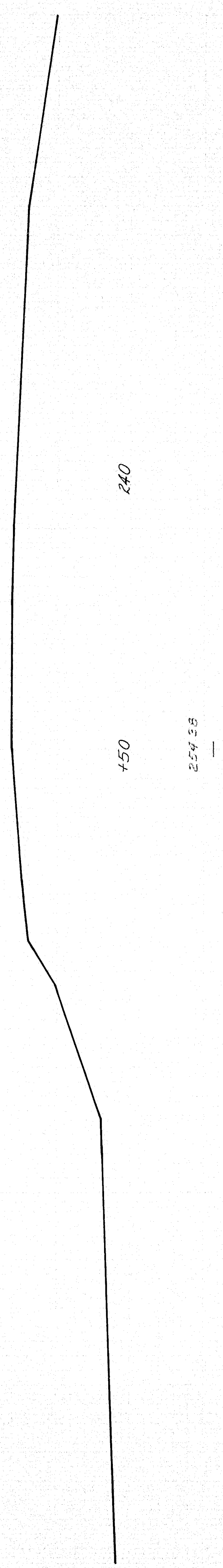
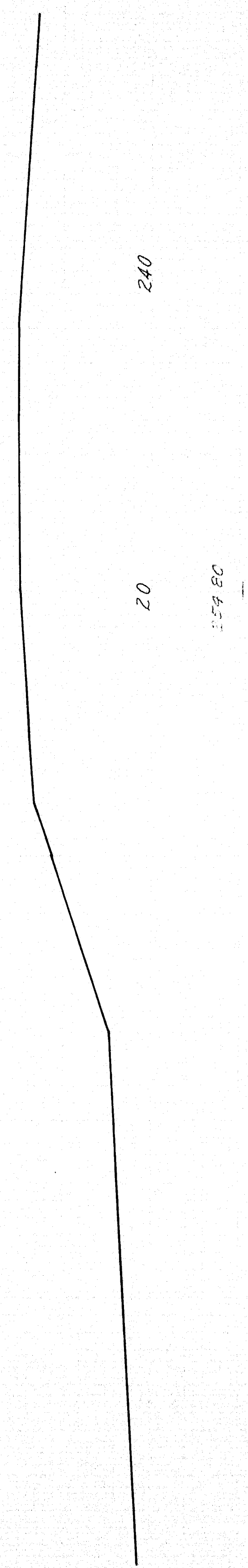
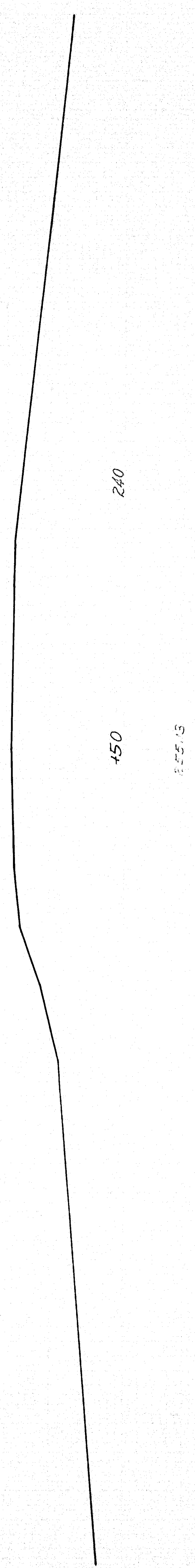
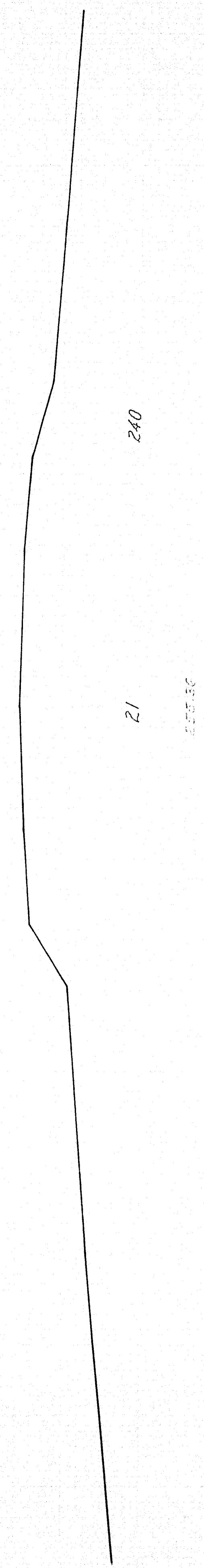
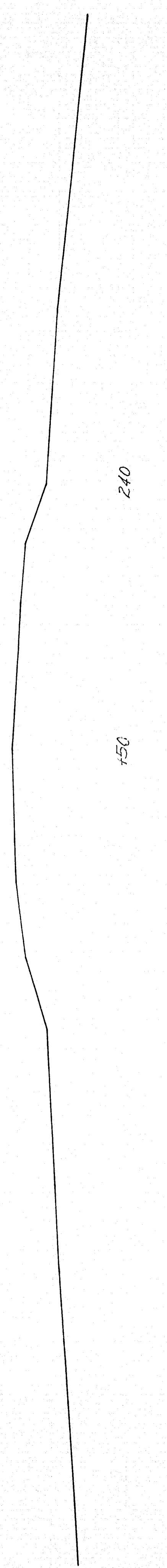




Trans. E. B. L.  
Check N. Barnes

H. Weston, 11/10

2

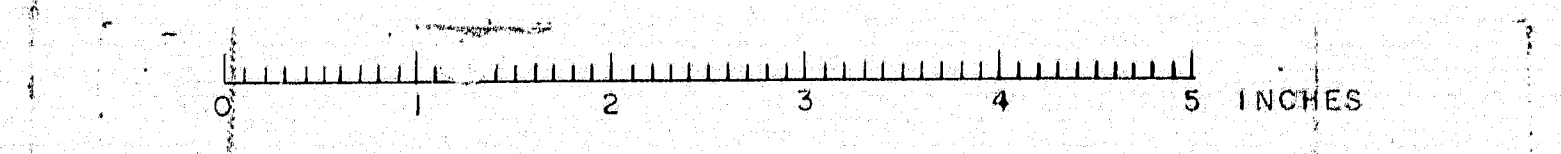


D. P. R. FILE NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(18)	6	26

Forward of this station  
Work to be done under  
this contract

Back of this station  
Work to be done by others

To be done by  
others



ROUTE NO. 7 BRIDGE - PLYMOUTH

83  
106



True Elev.  
Check 1.00m

H. Lettinger 1960

± SURVEY

253.29

25

245

253.86

450

245

± Route 7

254.58

24

245

254.80

450

240

255.13

23

240

255.36

450

240

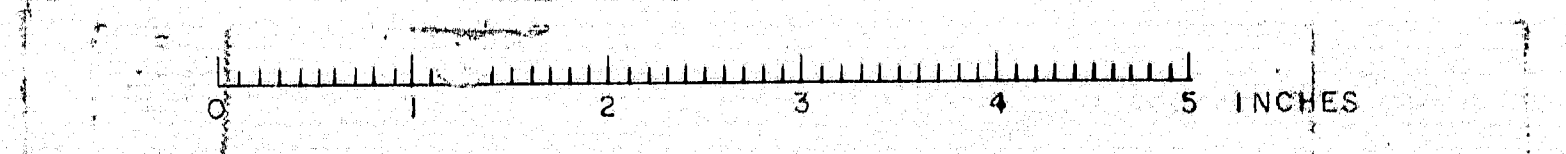
255.50

22

240

D. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(18)	7	26

± SURVEY



ROUTE NO. 7 BRIDGE - PLYMOUTH

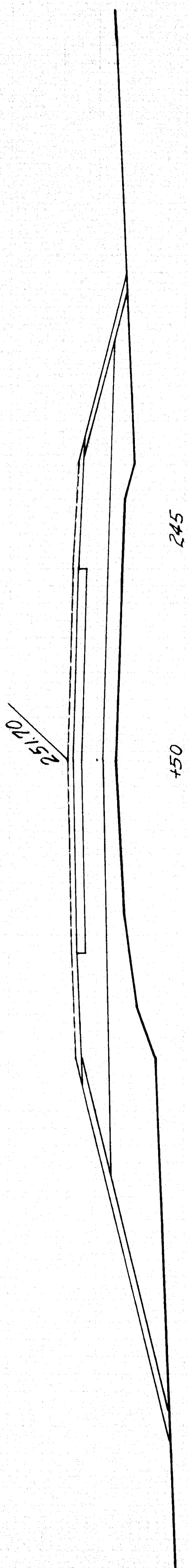
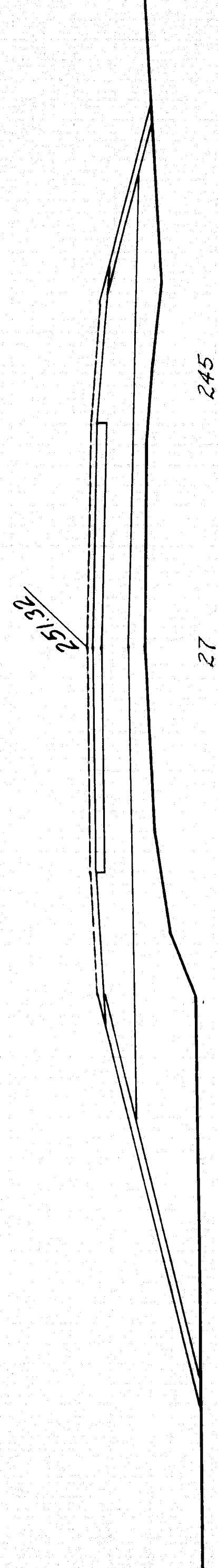
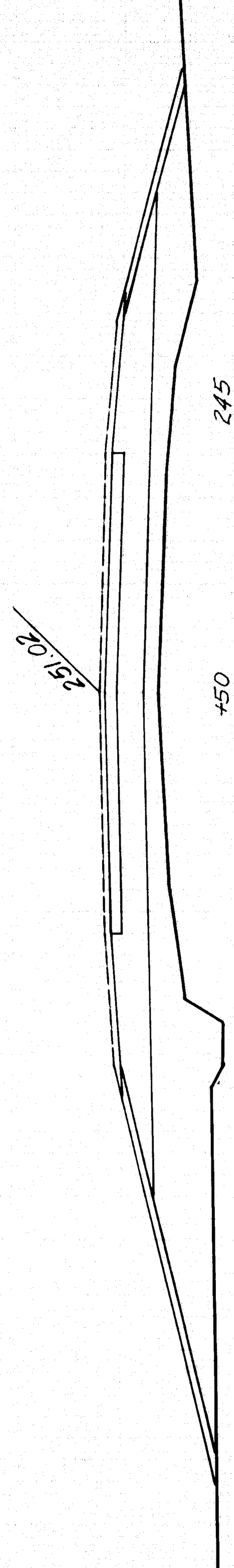
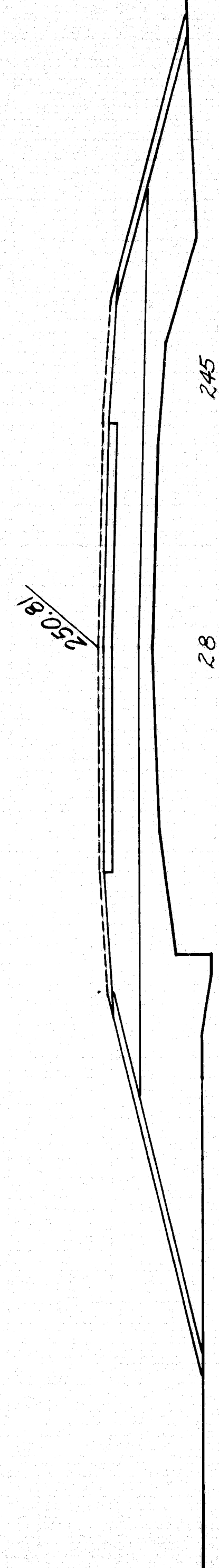
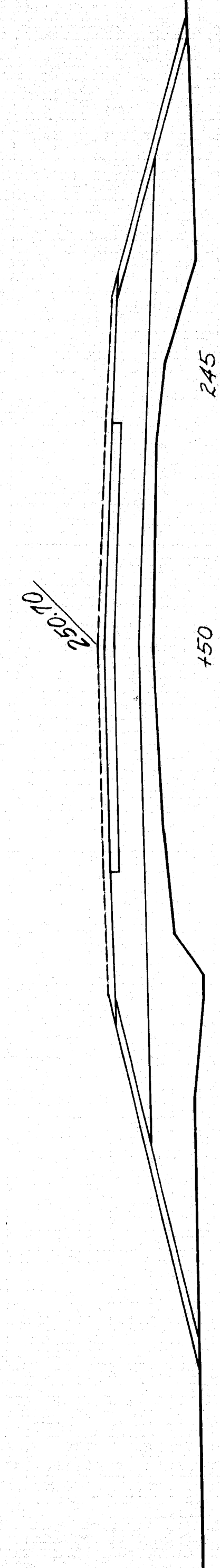
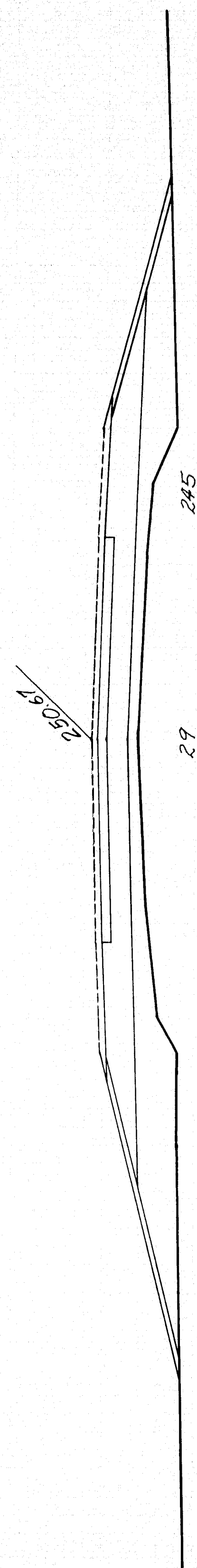
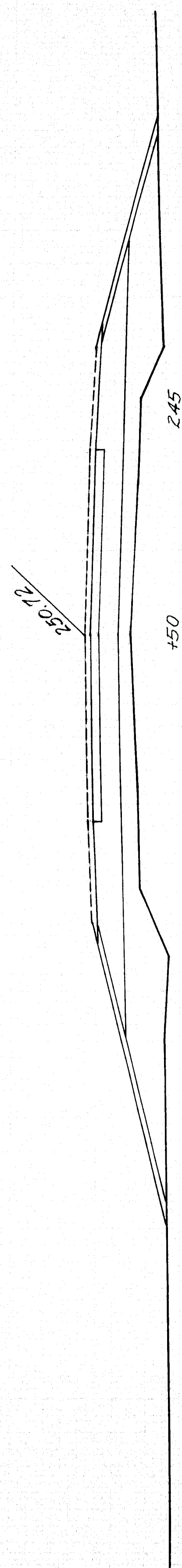
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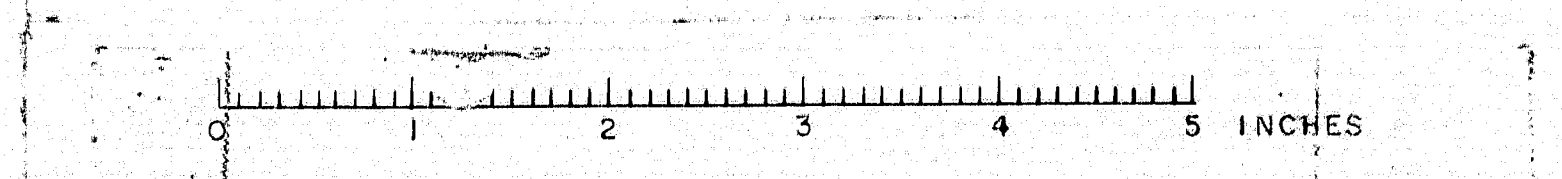
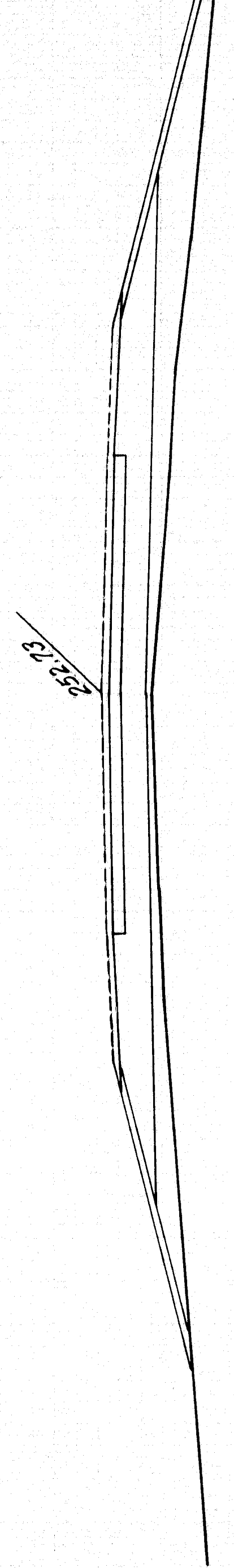
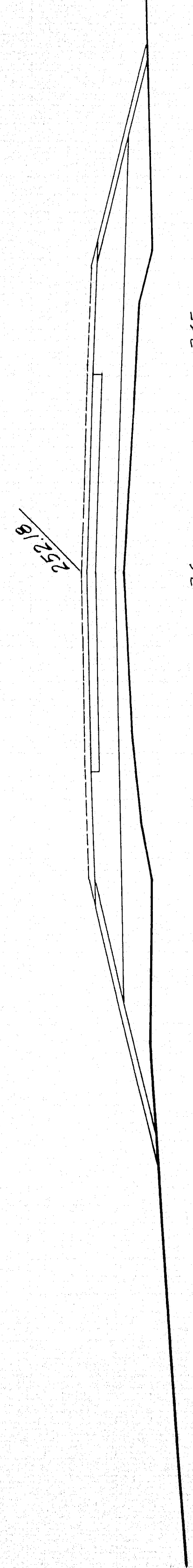
D. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(18)	8	26

Trace P. 1/10  
Chase K. 1/10

W. L. L. 1/10



Route 7



ROUTE NO. 7 BRIDGE - PLYMOUTH

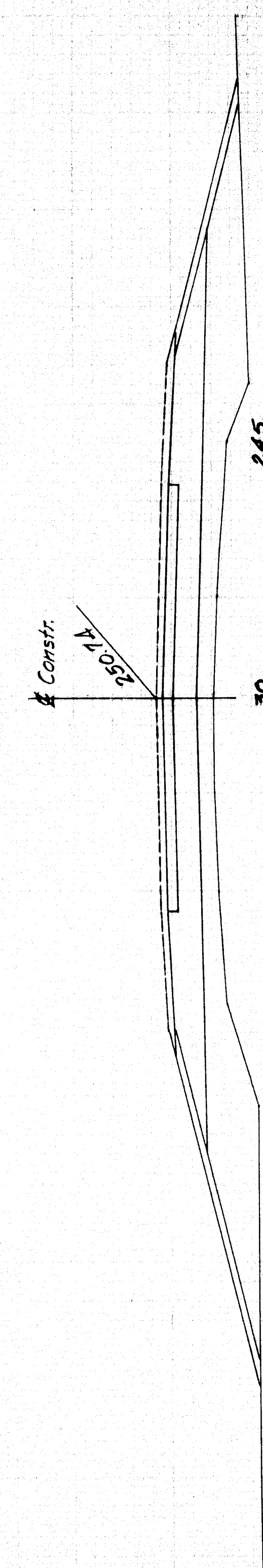
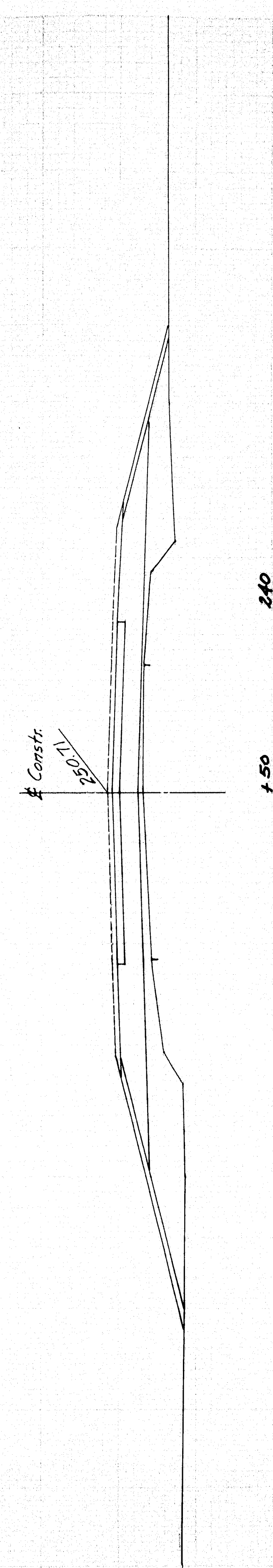
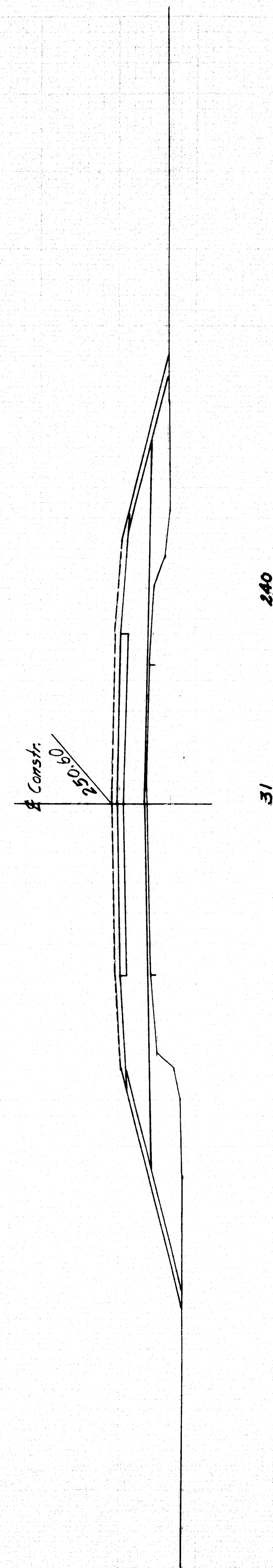
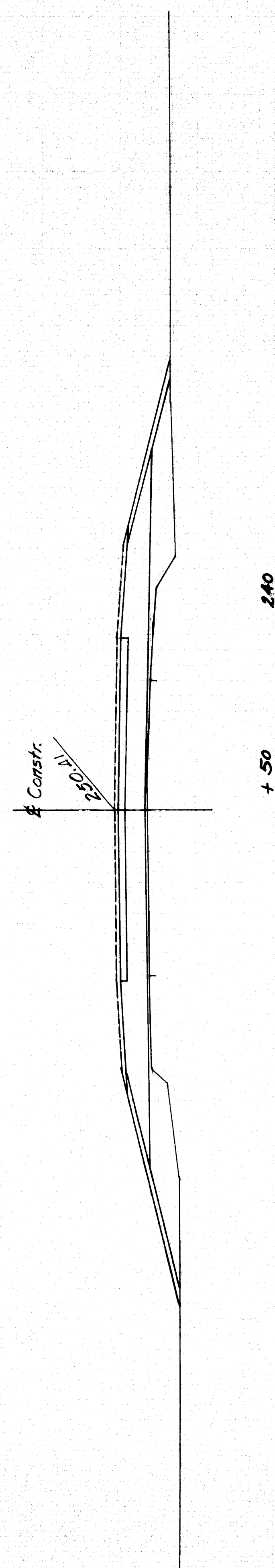
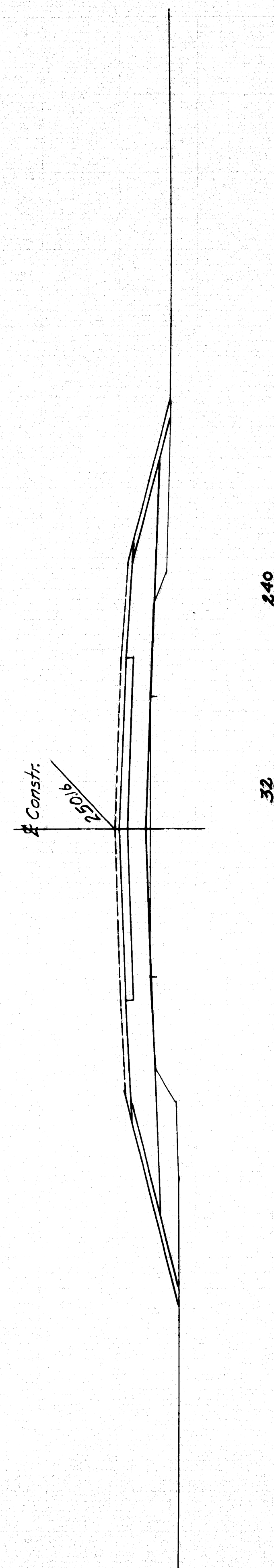
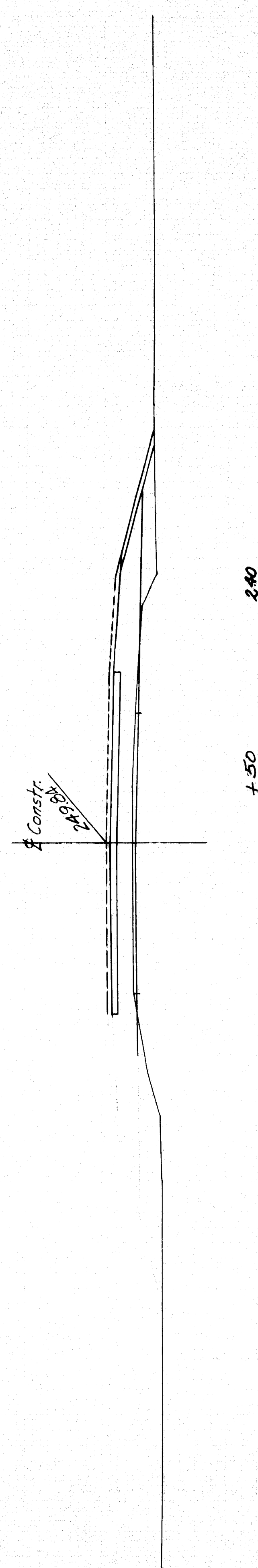
83  
108

W. L. L. 1/10



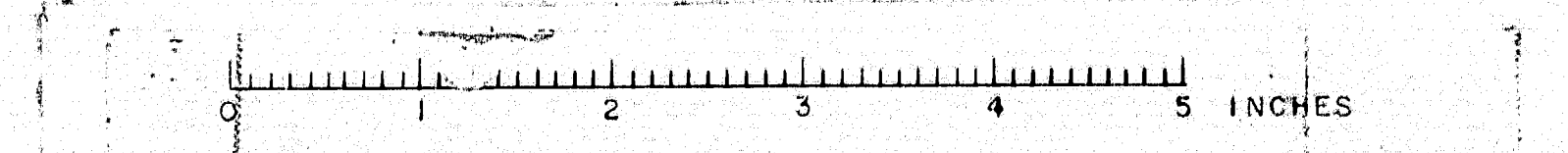
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(18)	9	28

Q SURVEY



Q SURVEY

Trace Pls.  
Cross F. B. B. 101



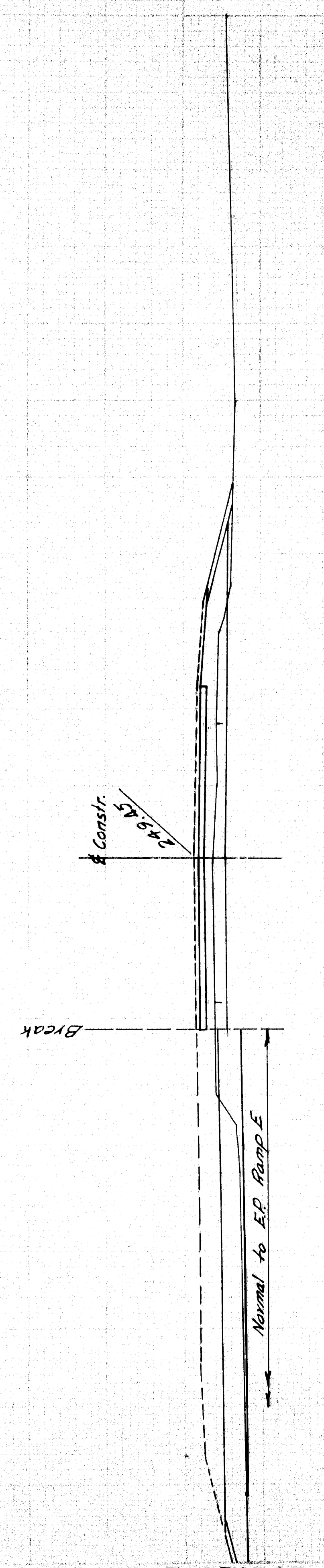
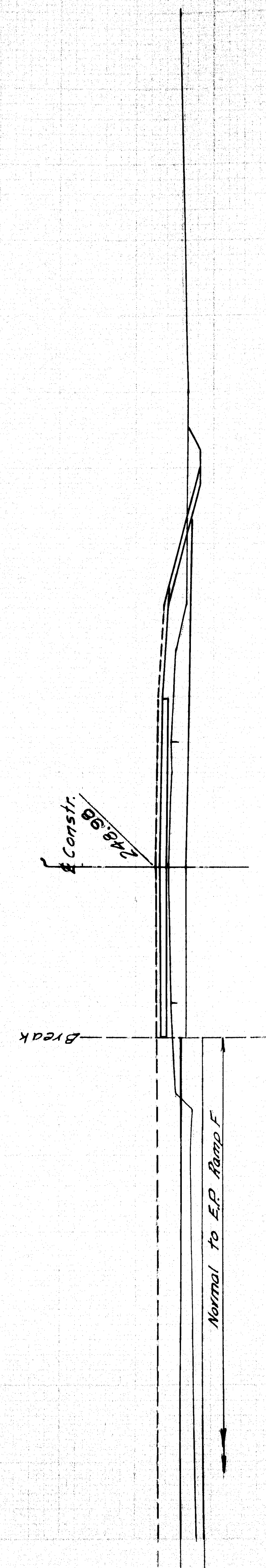
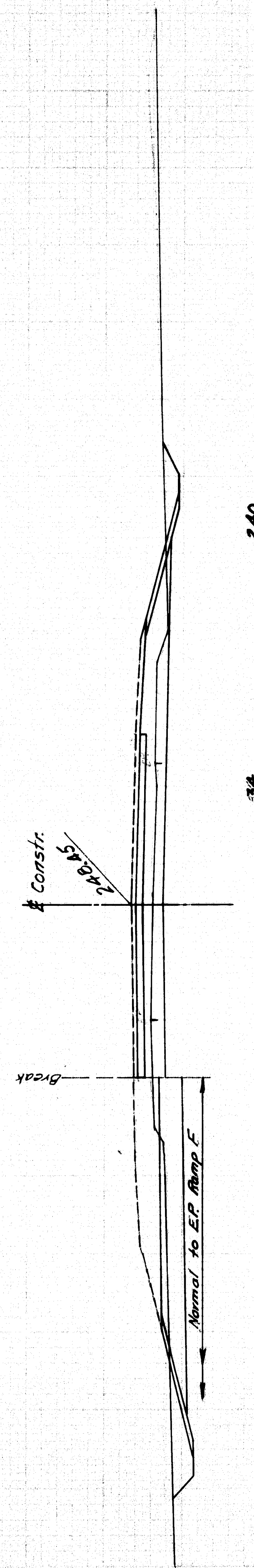
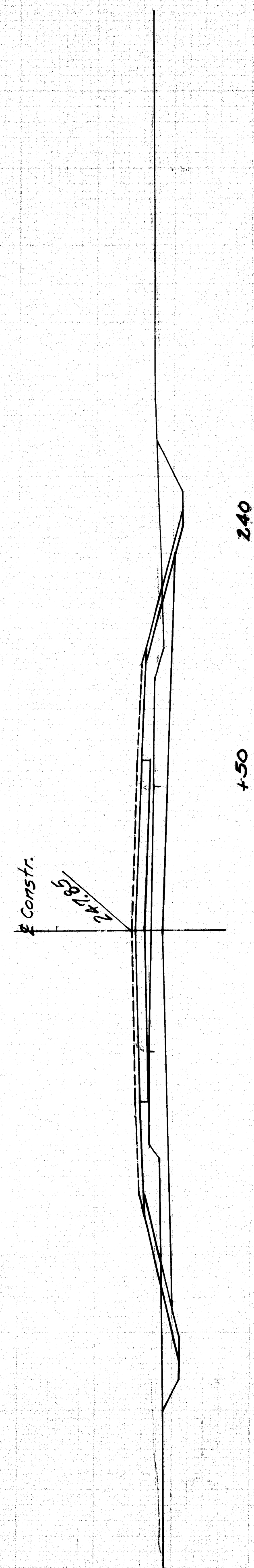
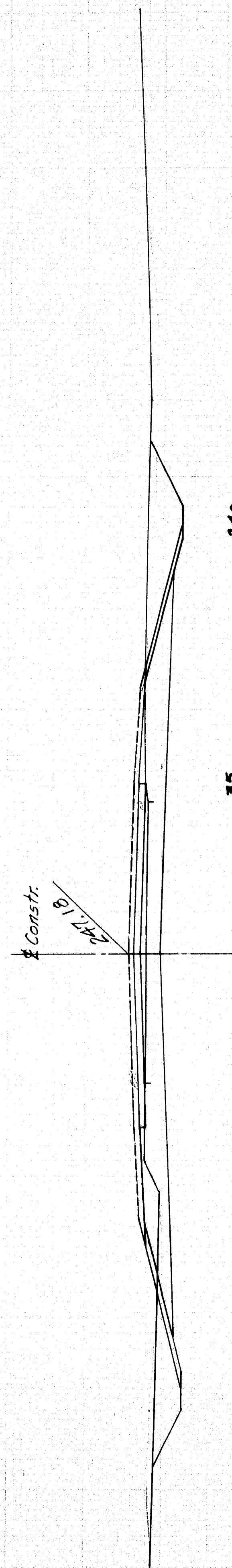
ROUTE NO. 7 BRIDGE - PLYMOUTH

83  
109

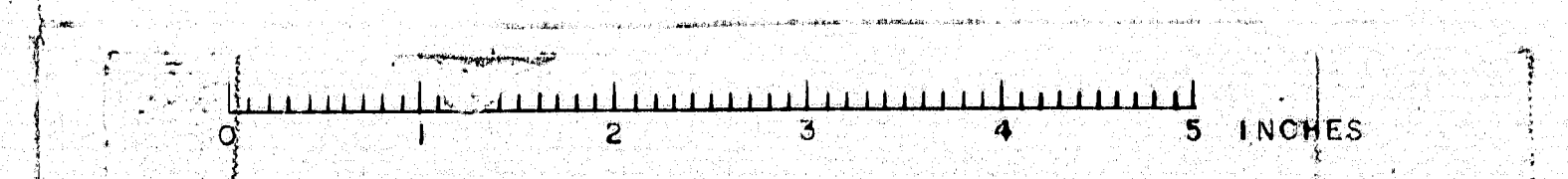


Trace R/W  
Check F.B. notes

Q SURVEY



D. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-7(18)	10	26



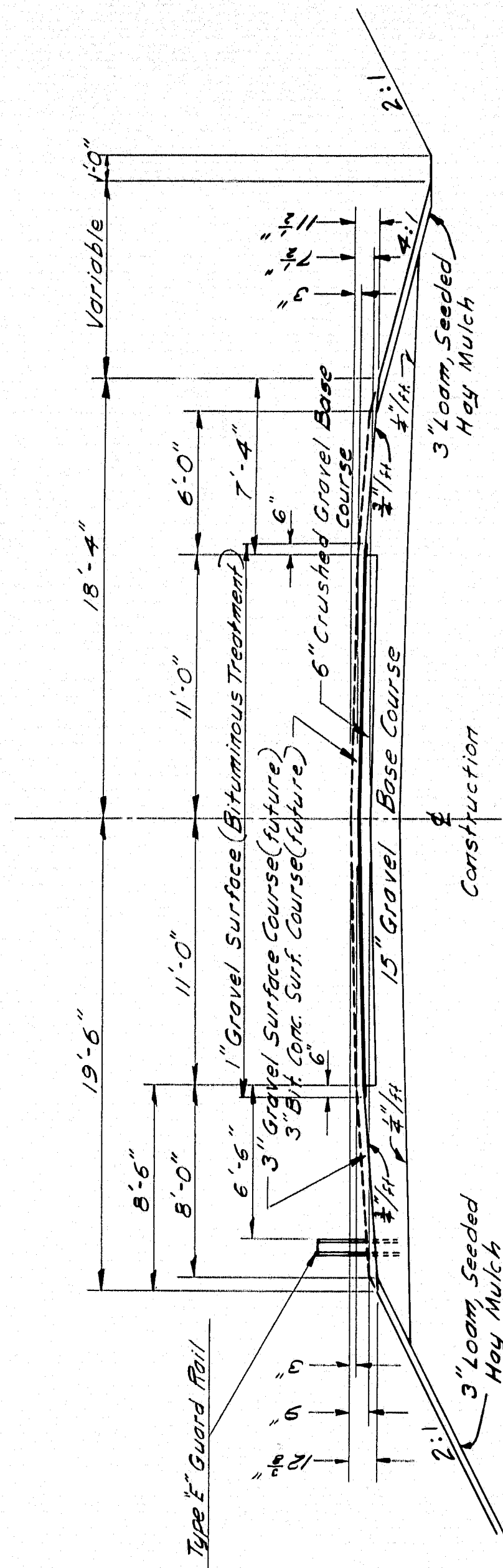
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Q SURVEY



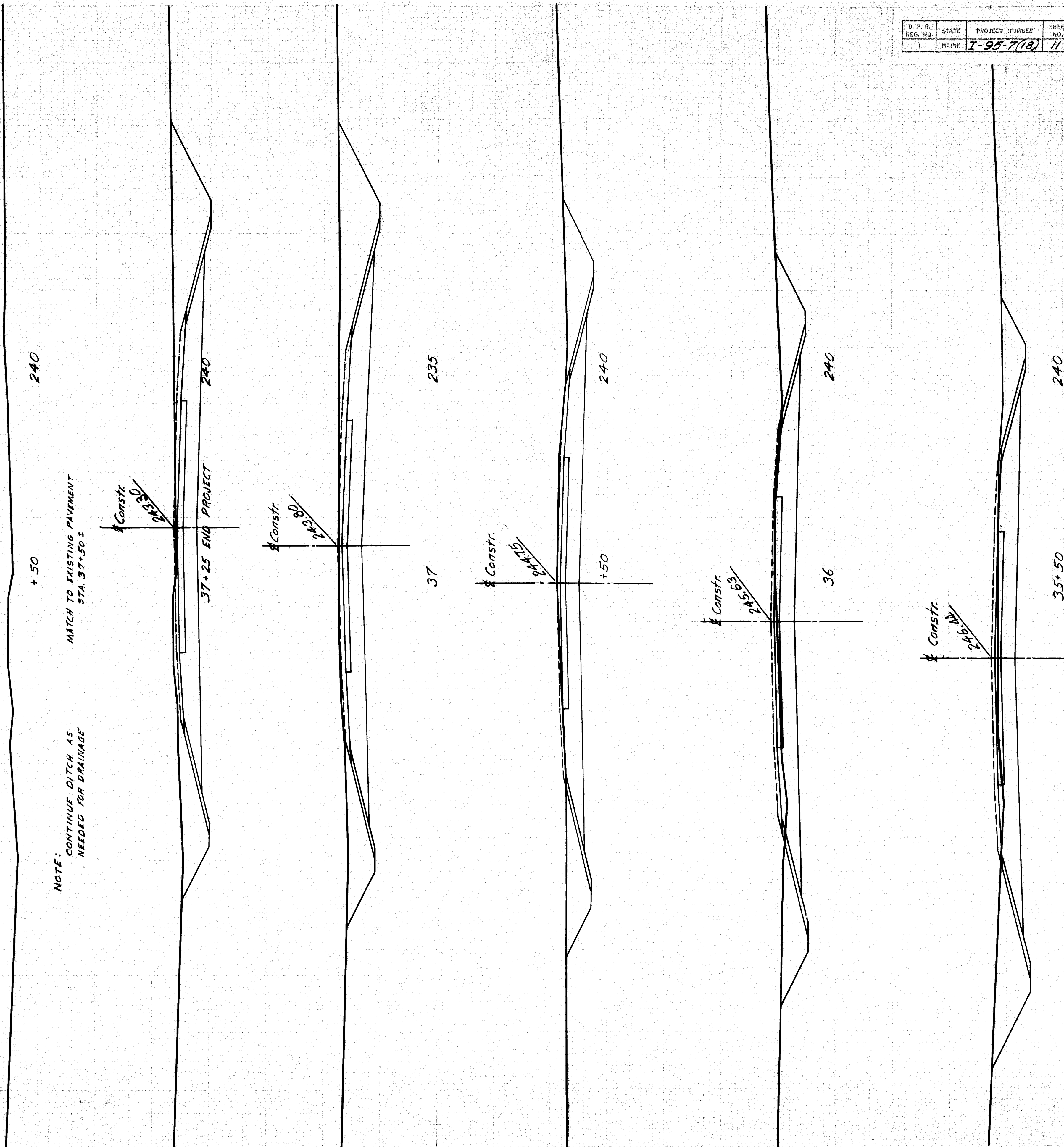
Trace R/W  
Check F.B. Bates



### TYPICAL SECTION RTE. 7

Future construction indicated by dashed lines. Type E Guard Rail to be set to future permanent grades.

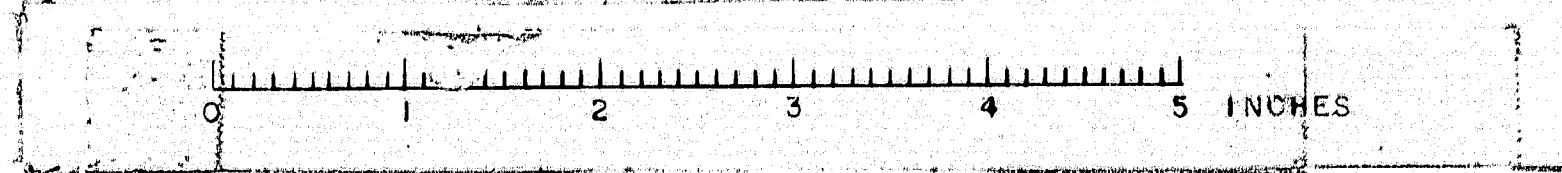
± SURVEY



D. P. R.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-7(18)	11	20

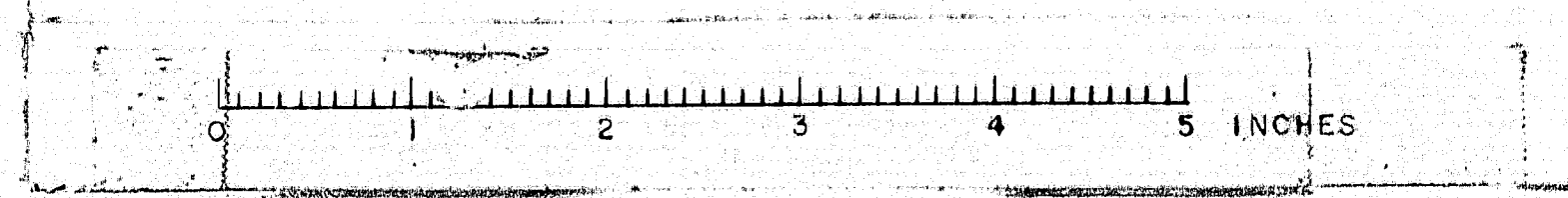
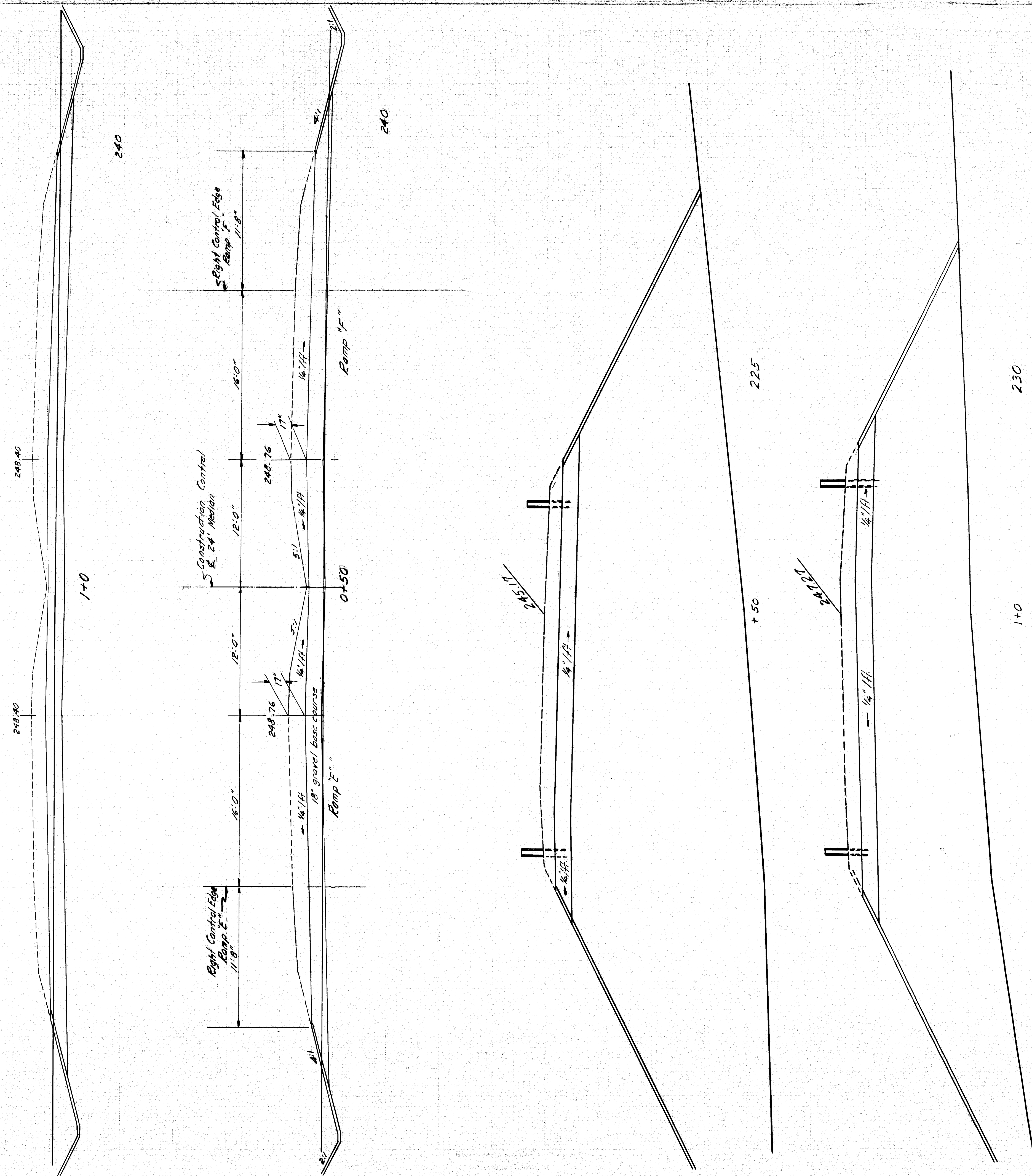
ROUTE NO. 7 BRIDGE - PLYMOUTH

83  
111





Trace R/L  
Chad F. Bona



ROUTE NO. 7 BRIDGE-PLYMOUTH

Right Control Edge  
Ramp D'

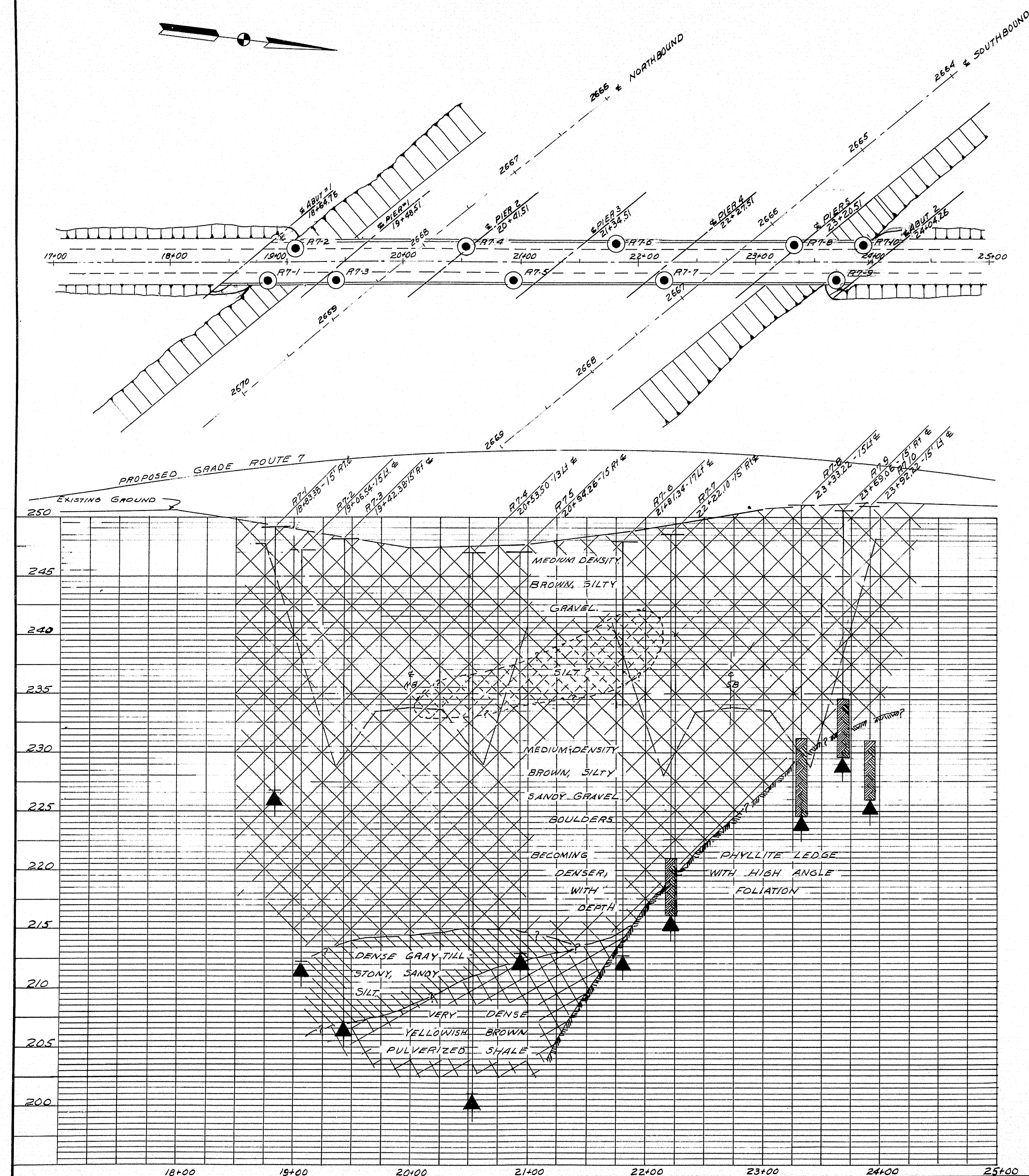
83  
112







B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(18)	14	26



DESIGN—  
TRACE—G.E.A.  
CHECK—W.H.Y.

BRIDGE NO.  
SURVEY—  
PLOT—

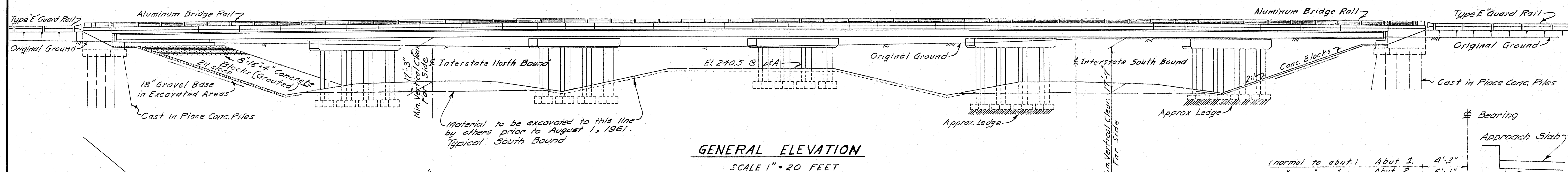
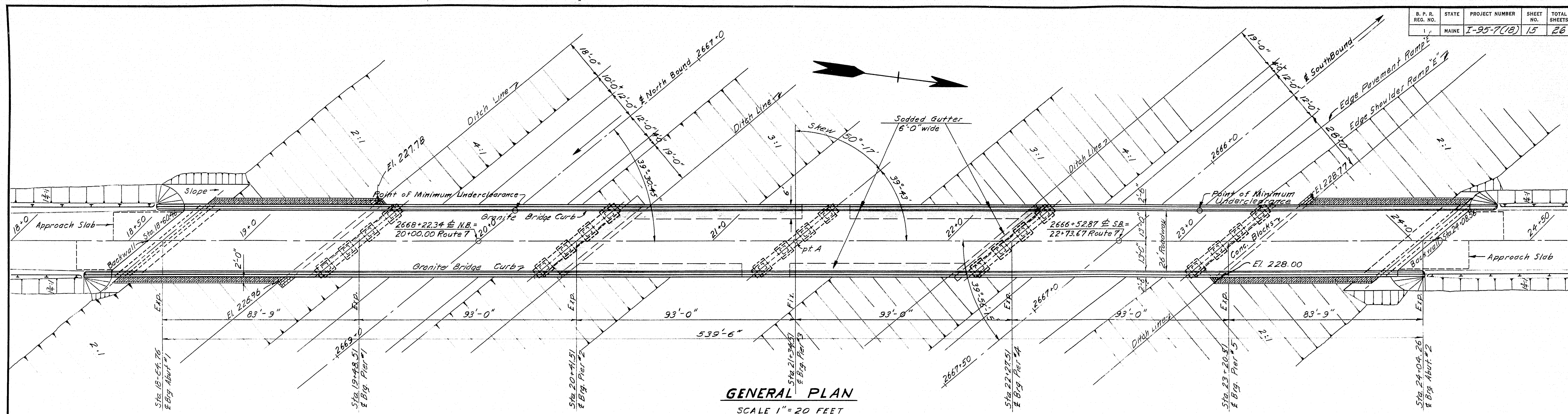
STATE HIGHWAY COMMISSION  
BRIDGE DIVISION  
**ROUTE NO. 7 BRIDGE**  
OVER  
**INTERSTATE NO. 95**  
IN THE TOWN OF  
**PLYMOUTH**  
**PENOBSCOT COUNTY**  
STRATIGRAPHIC PROFILE

SHEET 14 OF 26 AUGUSTA, MAINE APRIL 1961

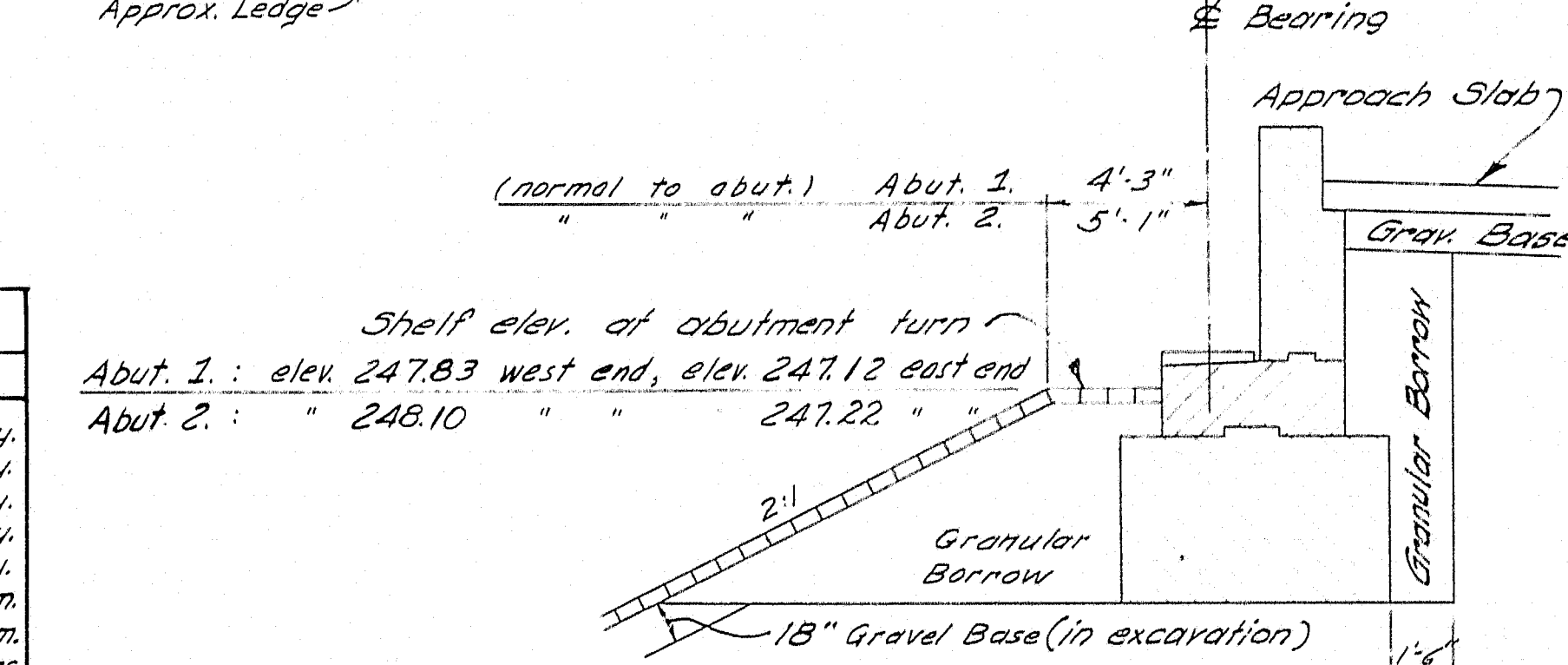
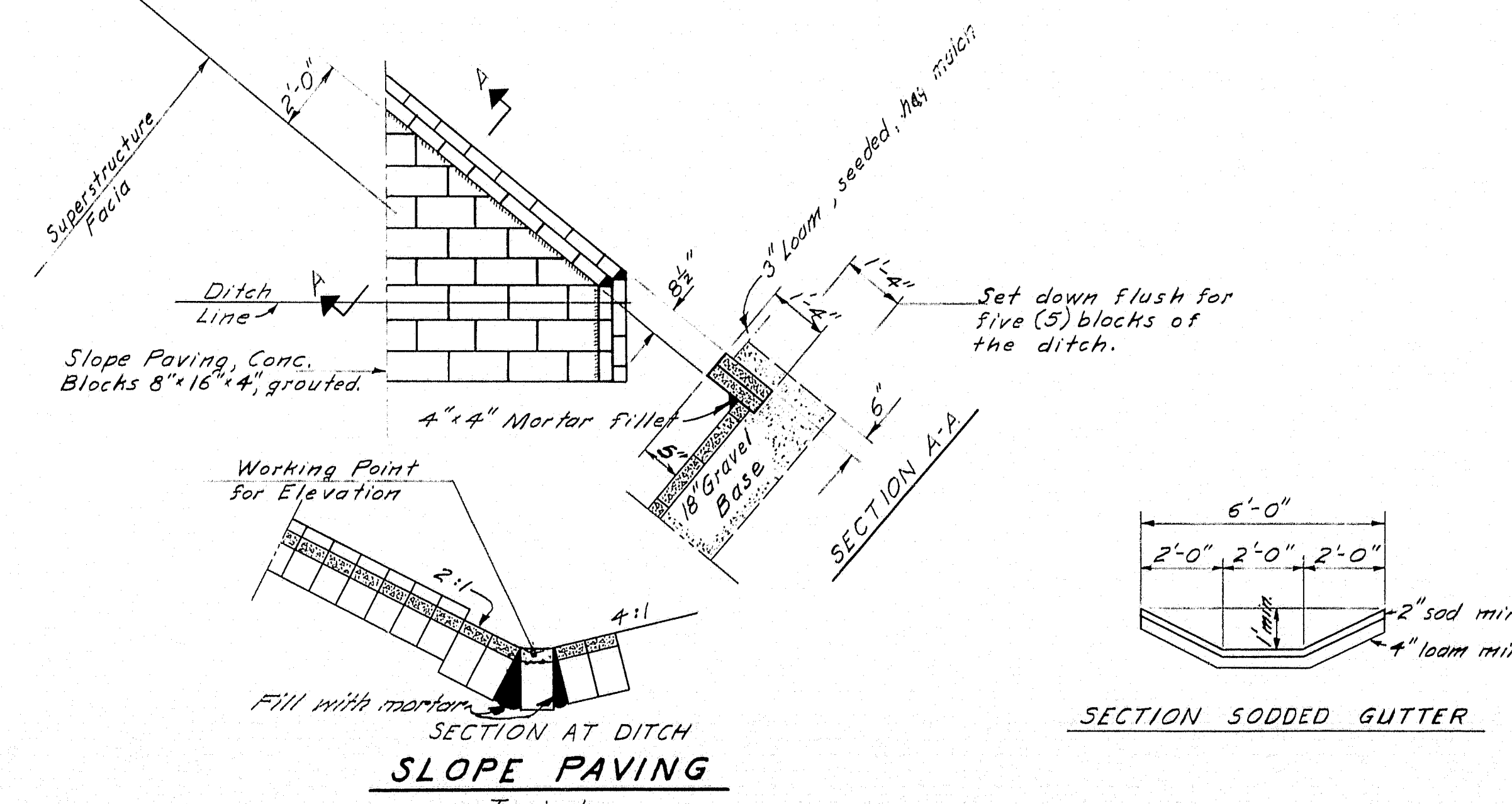
83-114

0 1 2 3 4 5 INCHES





ESTIMATE OF BRIDGE QUANTITIES		
ITEM NO.	DESCRIPTION	QUANTITY
203-9	Earth Excavation	200 c.y.
204-12	Structural Earth Excavation, Abutments & Retaining Walls	180 c.y.
204-14	Structural Earth Excavation, Piers	545 c.y.
205-9	Granular Borrow	160 c.y.
302-7	Gravel Base Course (In Place Measure)	350 c.y.
308-5	Overhaul (In Place Measure)	700 ym.
308-6	Overhaul (Pit Measure)	300 ym.
404-28	Bituminous Concrete Surface Course, Type 'A'	170 tons
701-33	Portland Cement Concrete, Abutments & Retaining Walls	200 c.y.
701-35	Portland Cement Concrete, Piers	370 c.y.
701-40	Portland Cement Concrete, Roadway & Sidewalk Slabs on Steel Bridges	550 c.y.
701-47	Portland Cement	1670 bbls.
702-103	Structural Steel, Fabricated & Delivered	604,000 lbs.
702-104	Structural Steel, Erection	604,000 lbs.
702-105	Structural Steel, Field Painting	604,000 lbs.
705-13	Reinforcing Steel, Delivered	169,300 lbs.
705-14	Reinforcing Steel, Placing	169,300 lbs.
705-17	Shear Connectors	Lump Sum
711-6	Cast in Place Concrete Piles	510 lin. ft.
806-7	Aluminum Rail	1115 lin. ft.
807-9	Membrane Waterproofing	1550 sq. yd.
808-6	Slope Paving	630 sq. yd.
901-21	Granite Bridge Curb	1138 lin. ft.
909-7	Sodding	270 sq. yd.
204-15	Structural Rock Excavation Piers	10 c.y.
807-11	Epoxy Resin Surface Sealant	95 sq. yd.
908-9	Loam Borrow	25 c.y.



CONCRETE CLASSIFICATION: All concrete Class 'A'

LOADING  
H-20-516-44  
Structural Steel:  $f_s = 18,000$  p.s.i.  
Concrete:  $f_c = 20,000$  p.s.i.  
 $f_c = 1200$  p.s.i.  
 $n = 10$

DESIGN - R.W.L.  
TRACE - R.W.L.  
CHECK - Coffey

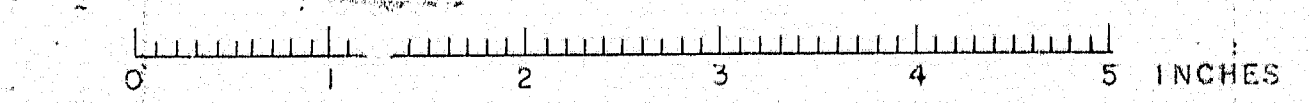
BRIDGE NO. SURVEY PLOT

STATE HIGHWAY COMMISSION  
BRIDGE DIVISION  
**ROUTE NO. 7 BRIDGE**  
OVER  
**INTERSTATE NO. 95**  
IN THE TOWN OF  
**PLYMOUTH**  
**PENOBSCOT COUNTY**  
GENERAL PLAN  
SHEET 15 OF 26 AUGUSTA, MAINE APRIL 1961

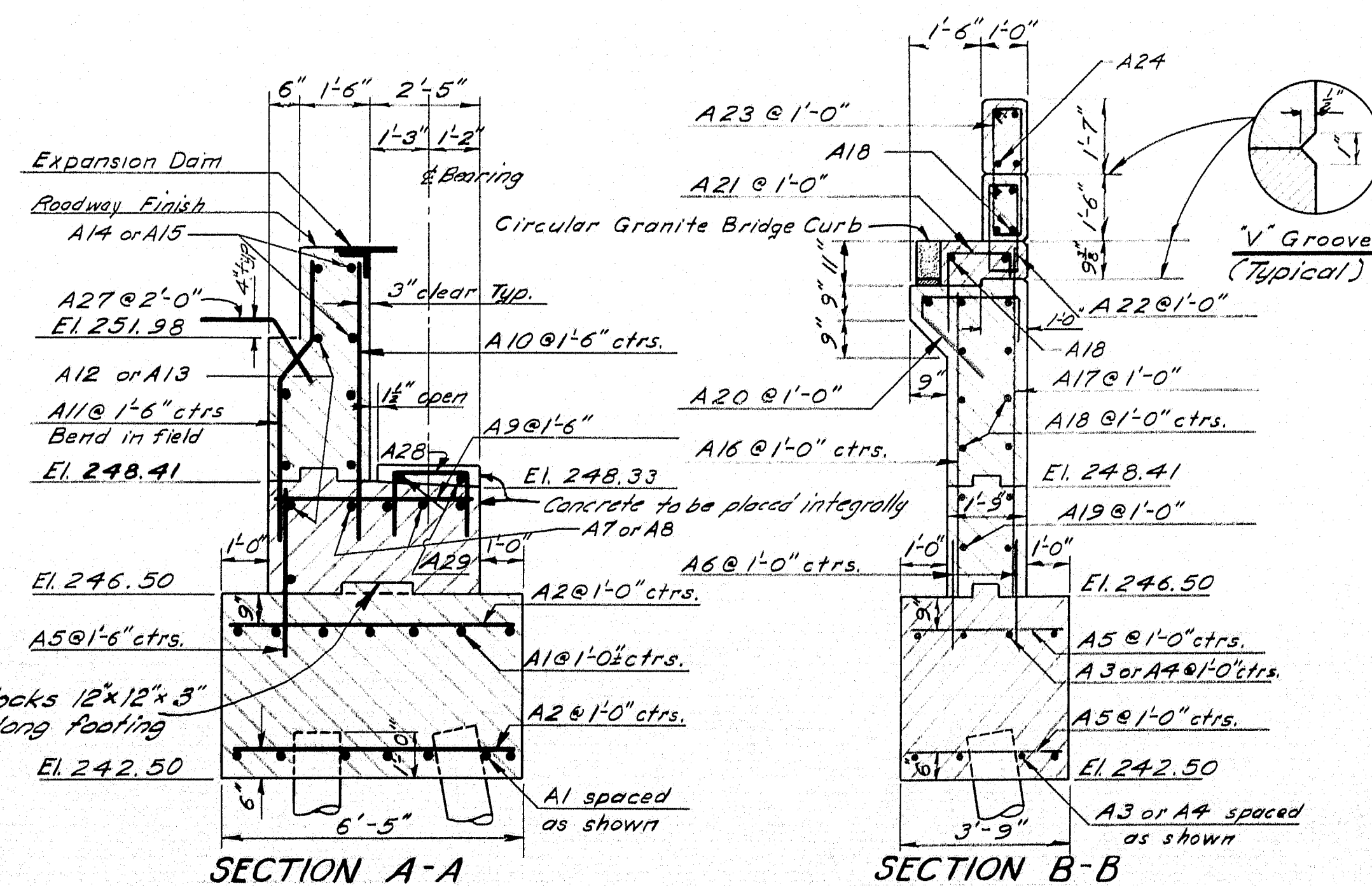
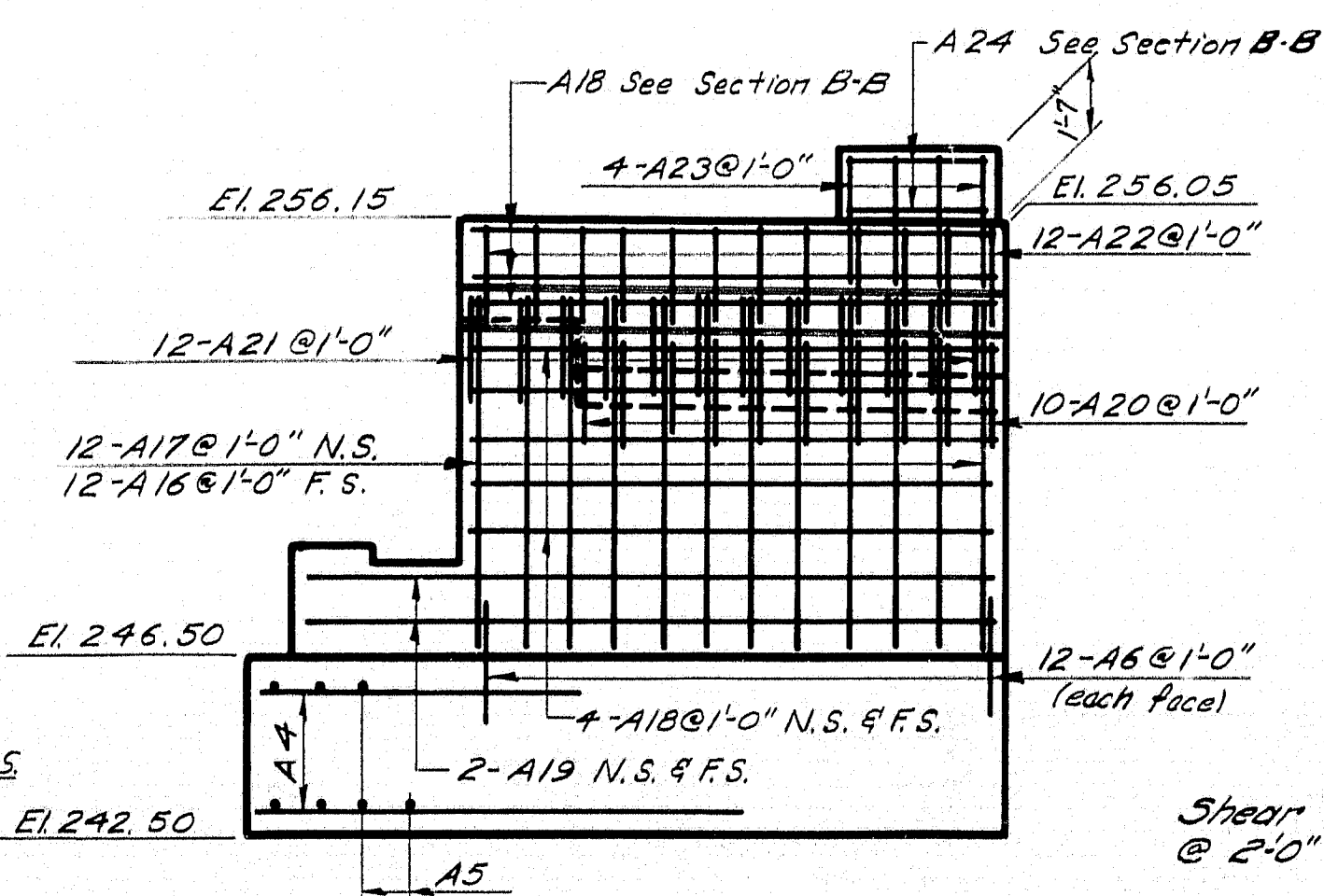
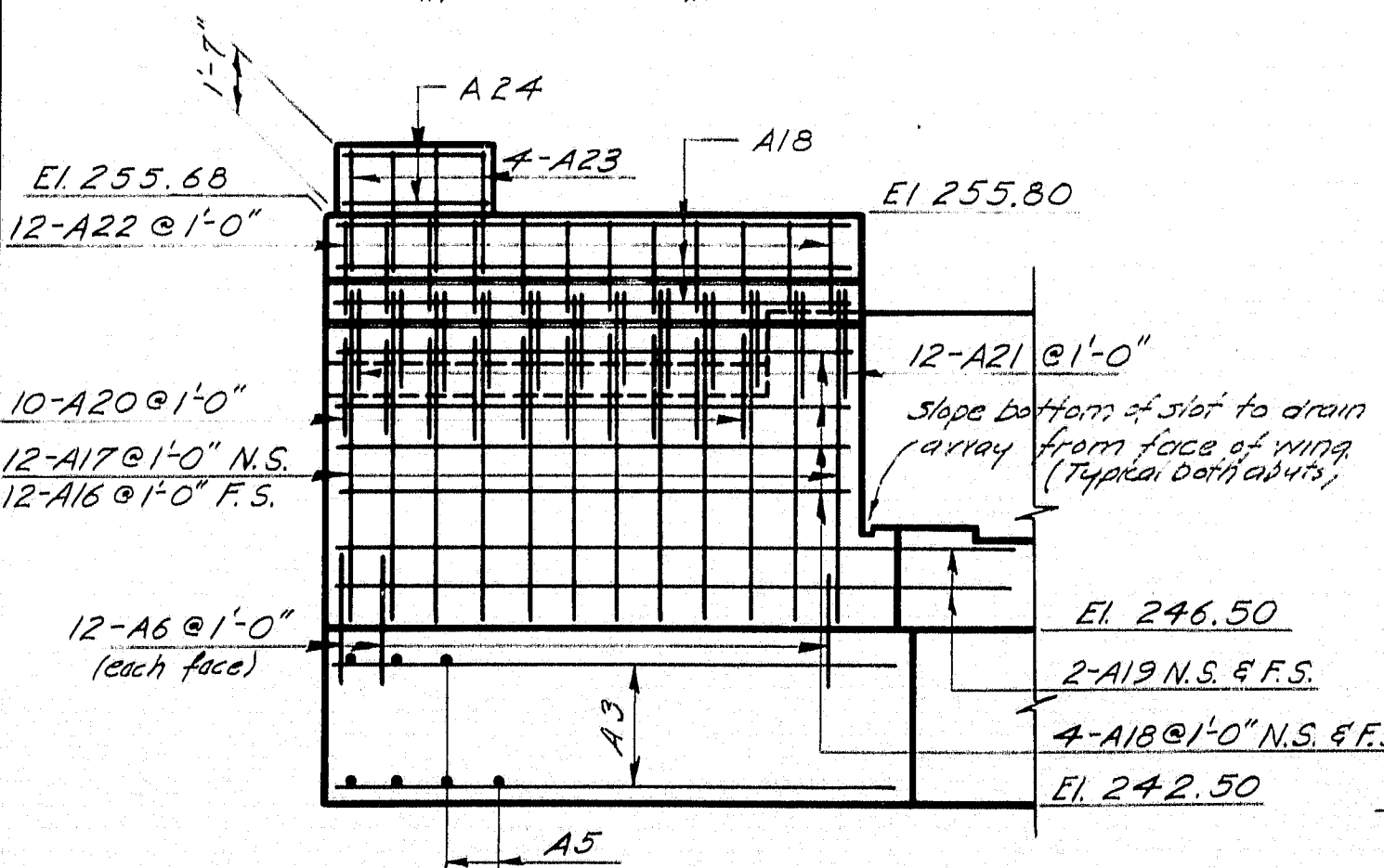
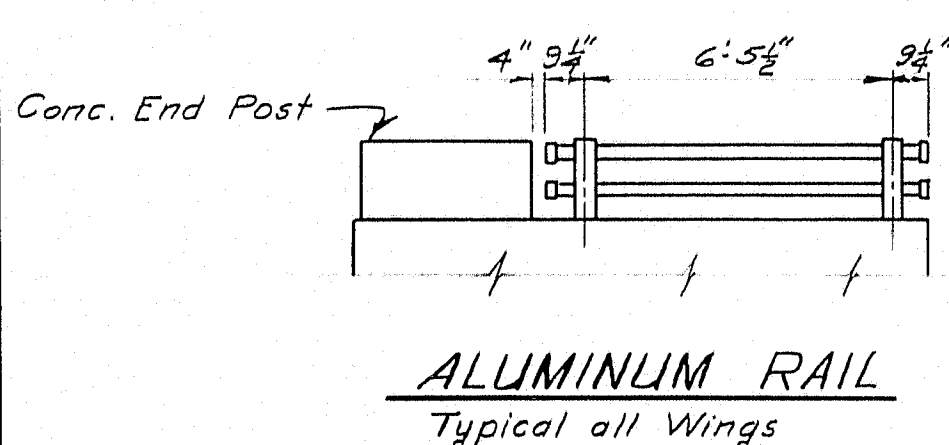
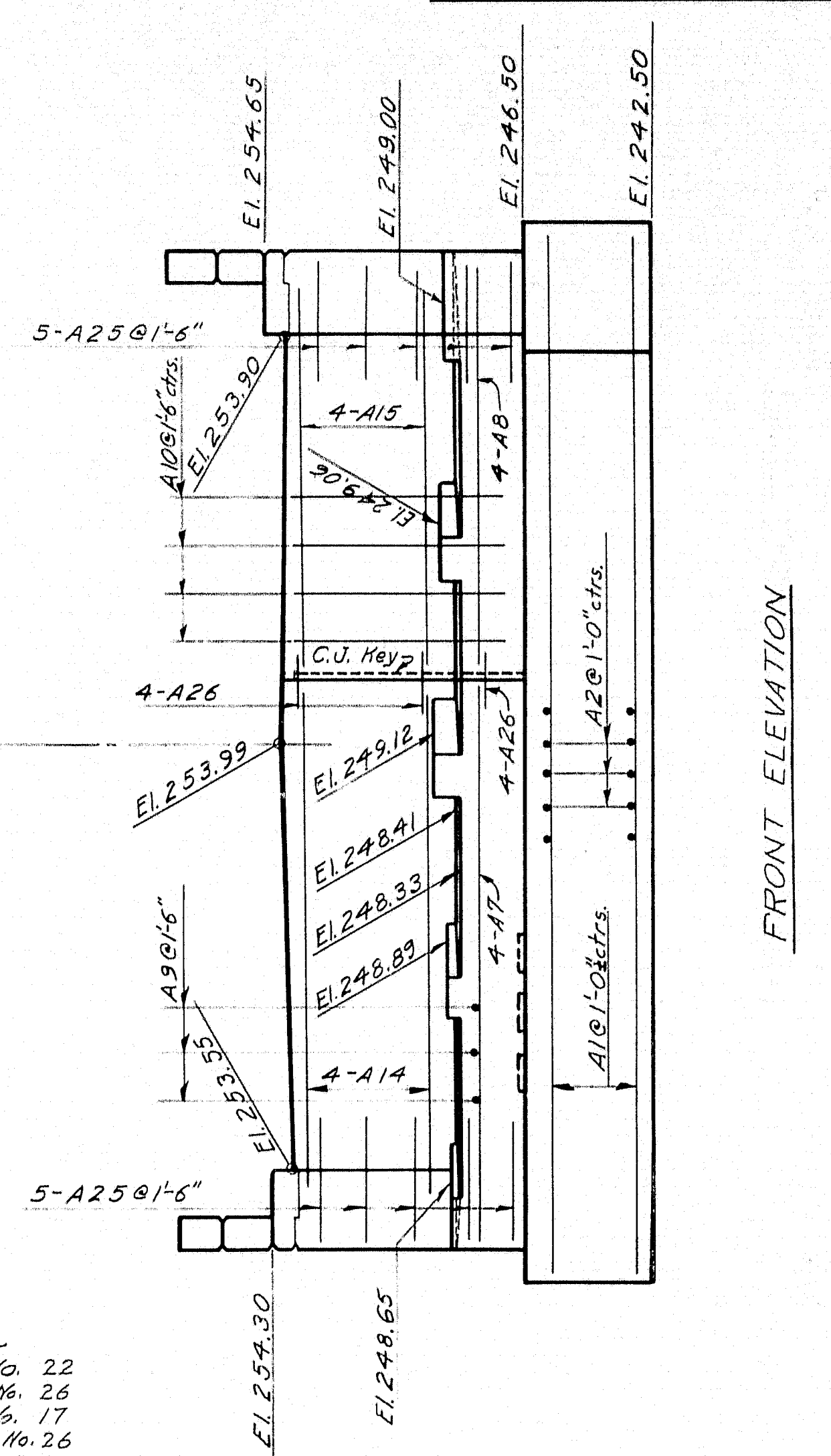
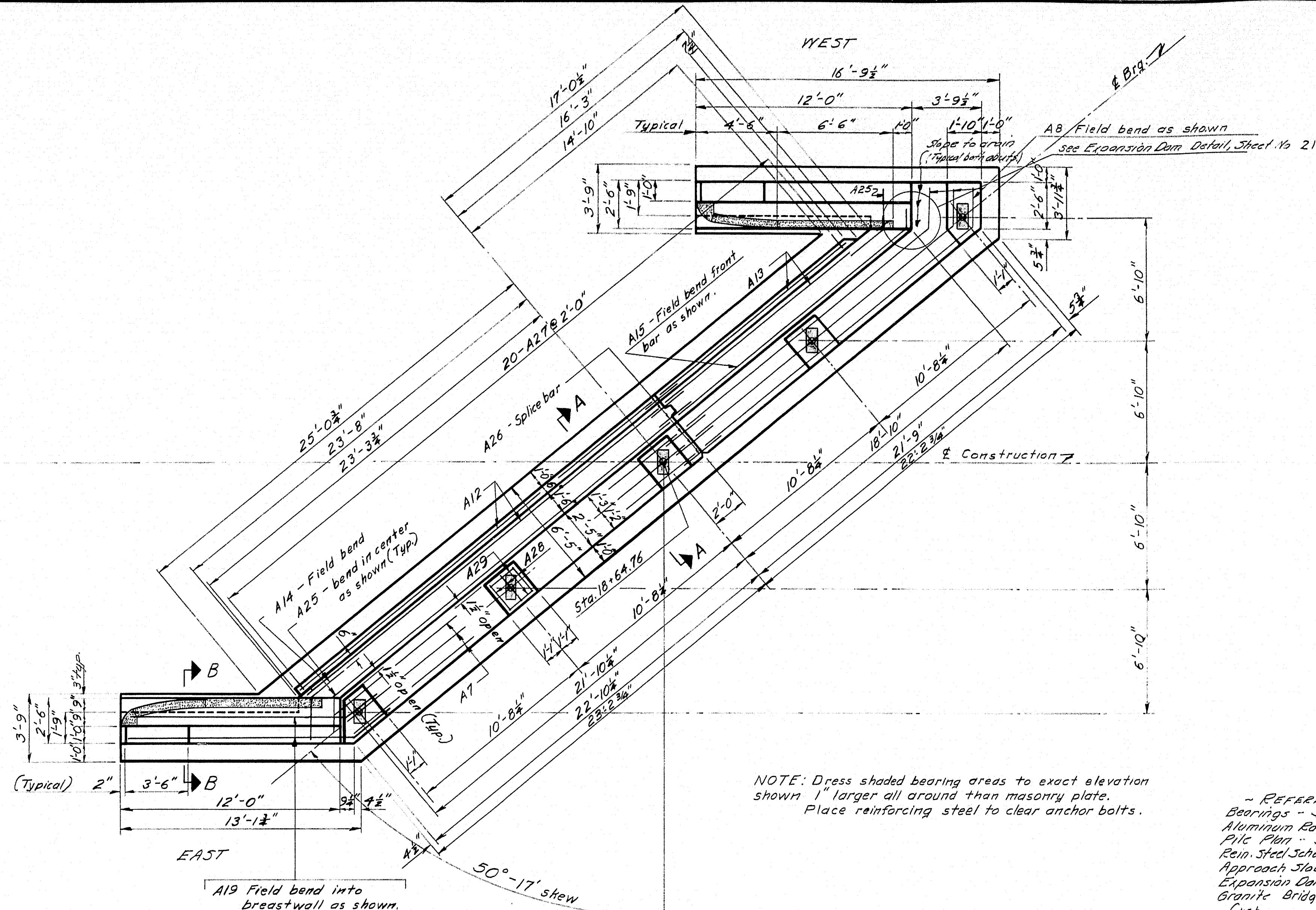
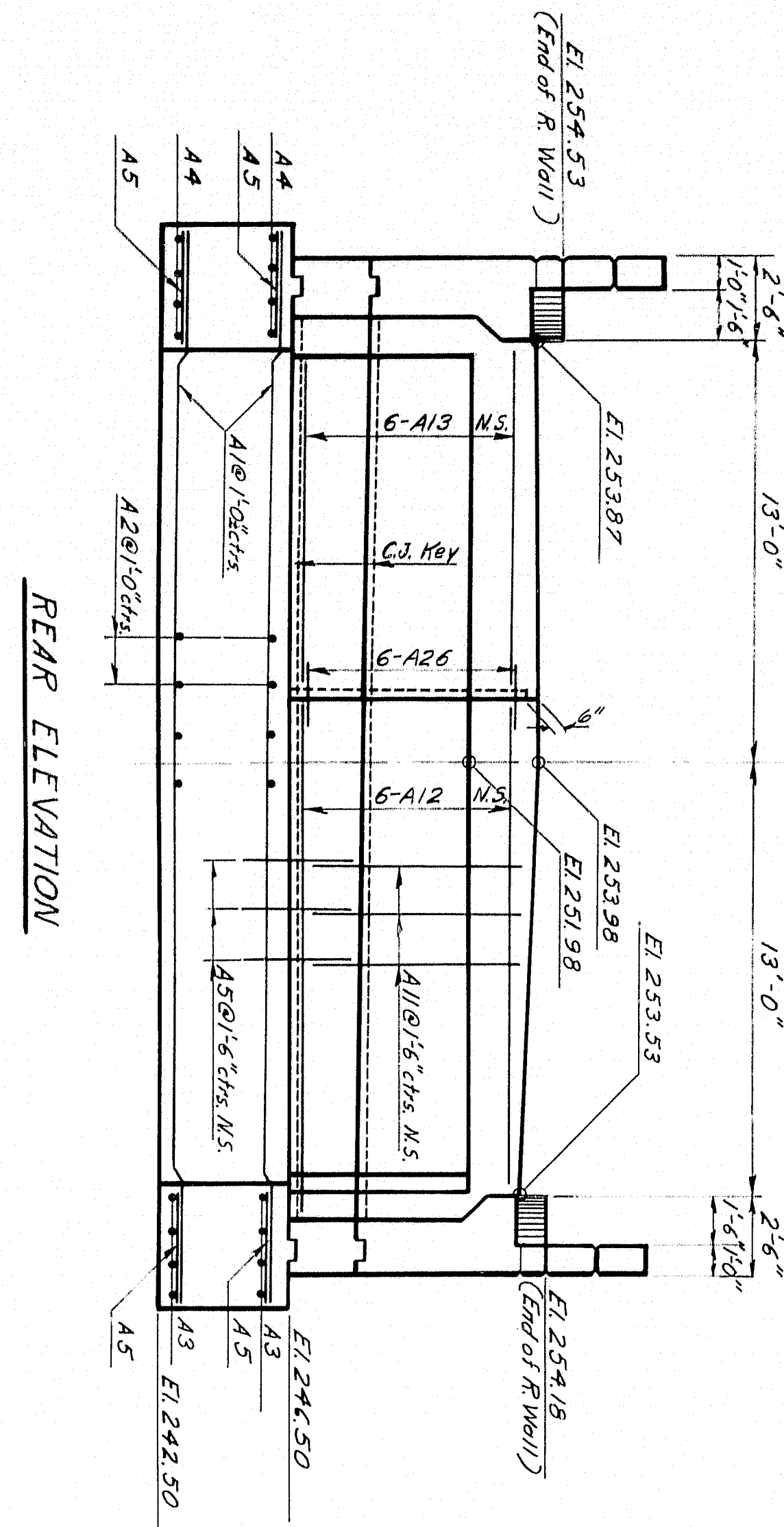
DESIGN  
A.A.S.H.O. Specifications for Highway Bridges 1957, and subsequent revisions.

CONTRACT  
State of Maine, State Highway Commission,  
Standard Specifications for Highways & Bridges,  
Revision of Jan. 1956 with supplements.

Payment for excavation for base of Slope Paving to be made under Item 203-9, Earth Excavation.  
The 18" gravel base under the Slope Paving may be reduced or omitted if in the opinion of the Engineer the existing material is suitable.







**NOTES:**

Coat face of backwalls, bridge seats and the face of abutments down to tops of footings with Epoxy Resin Surface Sealant. (Typical)

Reinforcing Steel in Concrete End Post and Rail Parapet to be 2" clear.

Reinforcing Steel in Backwalls, Wings, and Curbs to be 3" clear.

Dimensions shown for reinforcing in elevation views are measured along abutment face.

All reinforcing to be placed parallel to or normal to face of abutments and/or wings. For Pile layout see sheet no. 17.

Cover the backside of vertical construction joints with 2 layers of heavy roofing 10" wide. Coat the concrete and contact surface of each layer of roofing as applied with a suitable grade of roofing cement. Recess area to be covered.

DESIGN - W.H. TRACE - R.W. CHECK - R.W.

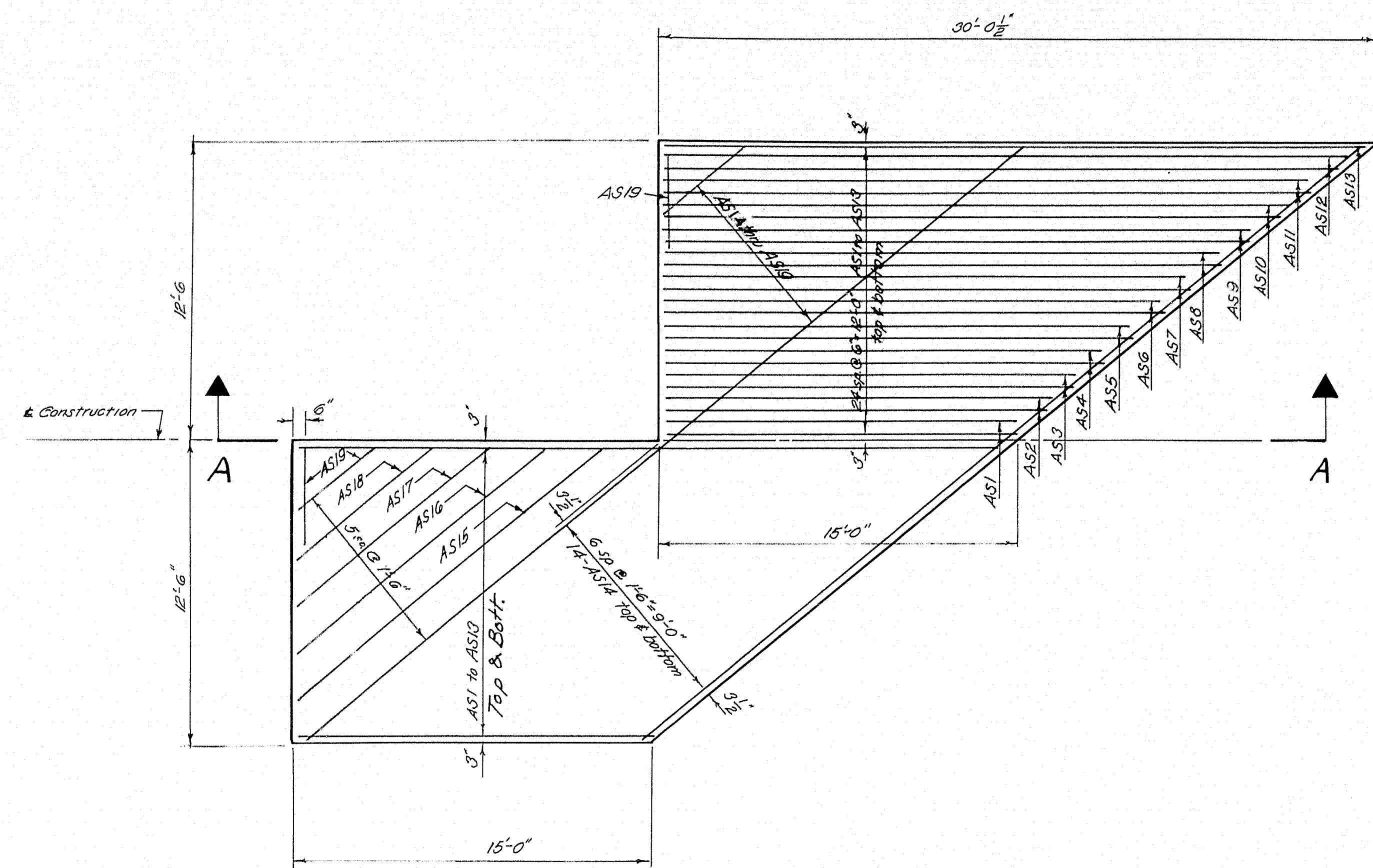
BRIDGE NO. SURVEY - PLOT -

STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

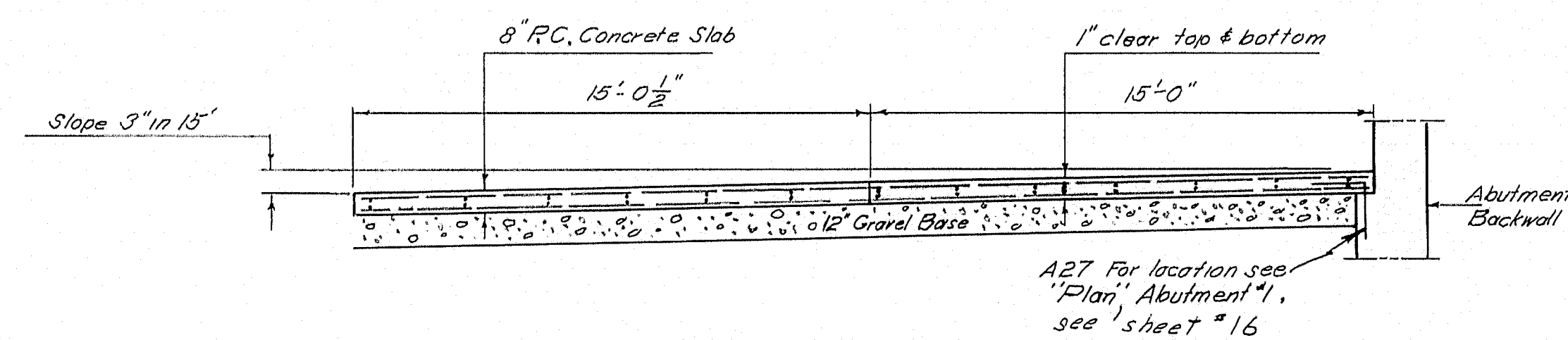
**ROUTE NO. 7 BRIDGE**  
OVER  
**INTERSTATE NO. 95**  
IN THE TOWN OF  
**PLYMOUTH**  
**PENOBSCOT COUNTY**  
ABUTMENT NO. 1

SHEET 16 OF 26 AUGUSTA, MAINE APRIL 1961



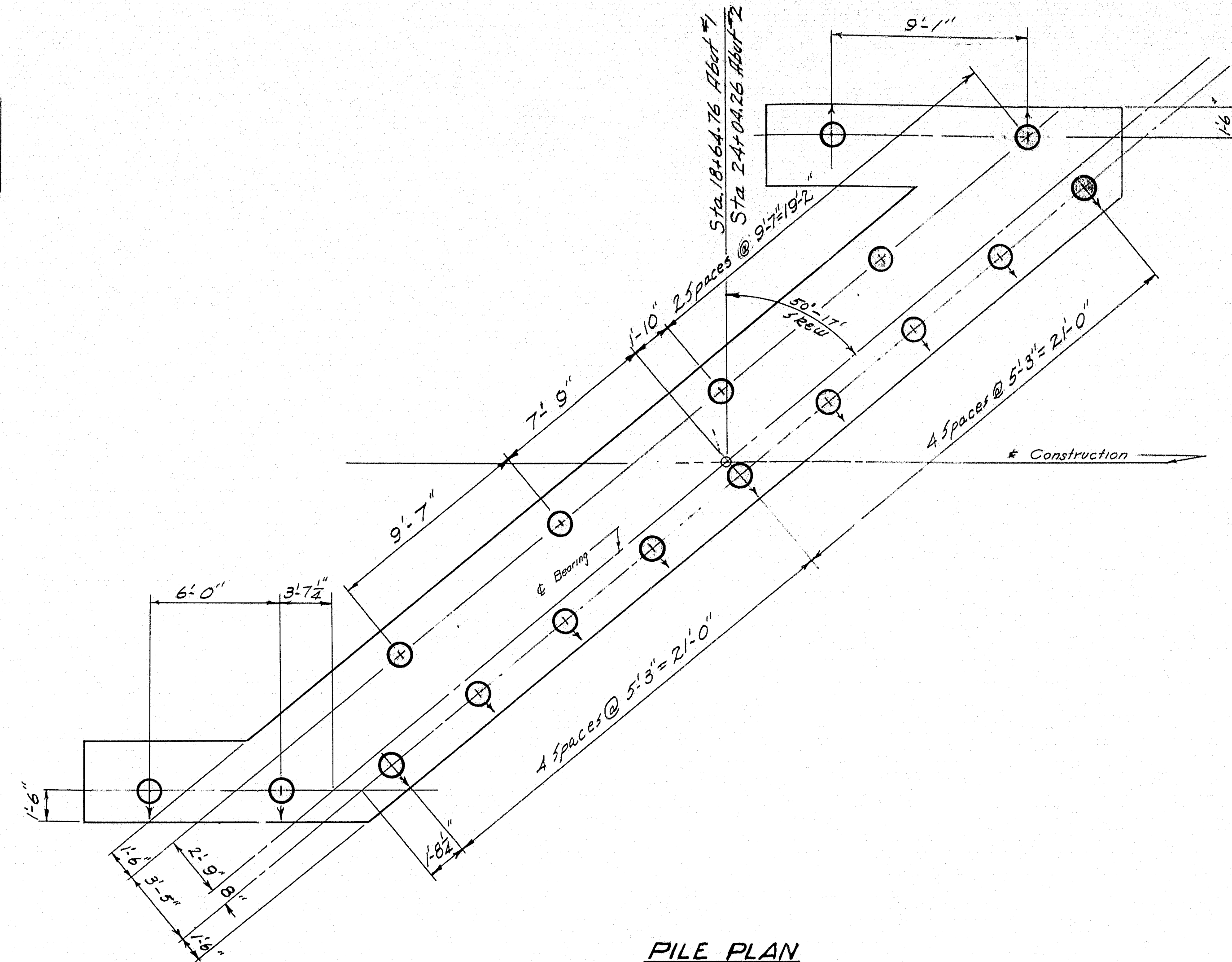


PLAN



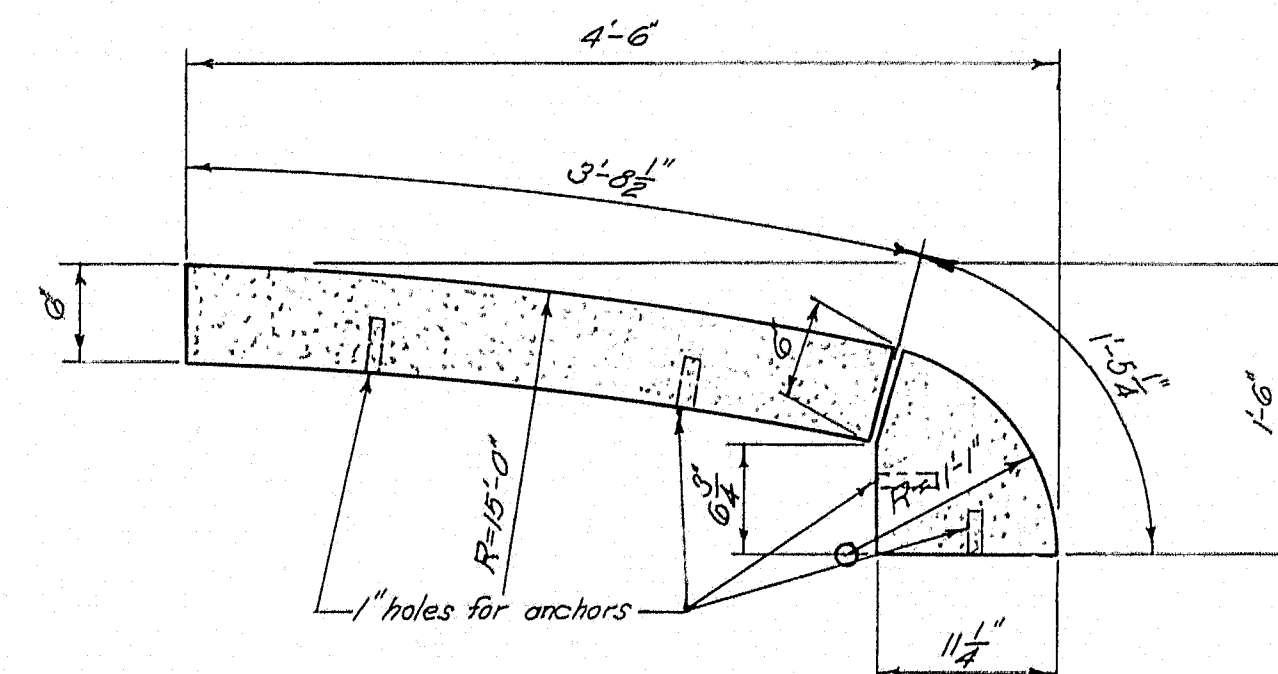
SECTION A-A

**APPROACH SLAB DETAILS**  
 Approach Slab @ Abut #1 shown. Rotate 180° for Abut #2.  
 Concrete in Approach Slabs to be paid for under Item 701-40



PILE PLAN

Abut #1 shown. Rotate 180° for Abut #2.  
 30 Ton Cast in Place Concrete Piles.  
 Batter 2 1/2 / 11, direction shown thusly.  
 Abut #1-17 piles required (est. length 15'-0")  
 Abut #2-17 piles required (est. length 15'-0")

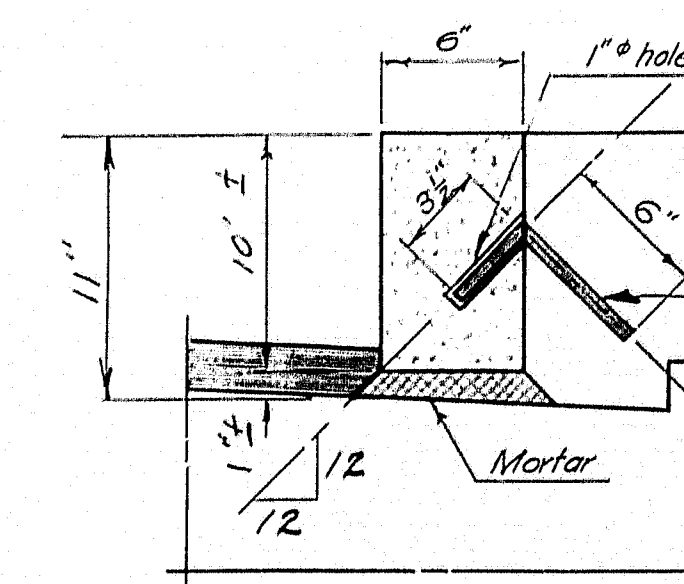


CIRCULAR GRANITE BRIDGE CURB

2 Req'd. - as shown  
 2 Req'd. - opp. hand

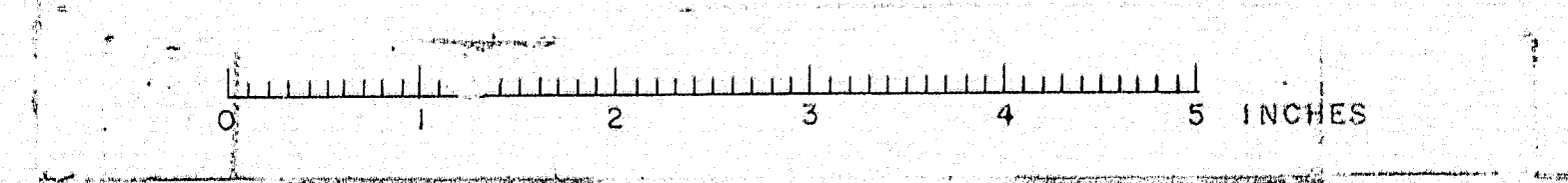
**GRANITE BRIDGE CURB DETAILS**

Payment for Circular Granite Bridge Curb to be made at the contract unit price per linear foot bid for Item 901-21, Granite Bridge Curb.



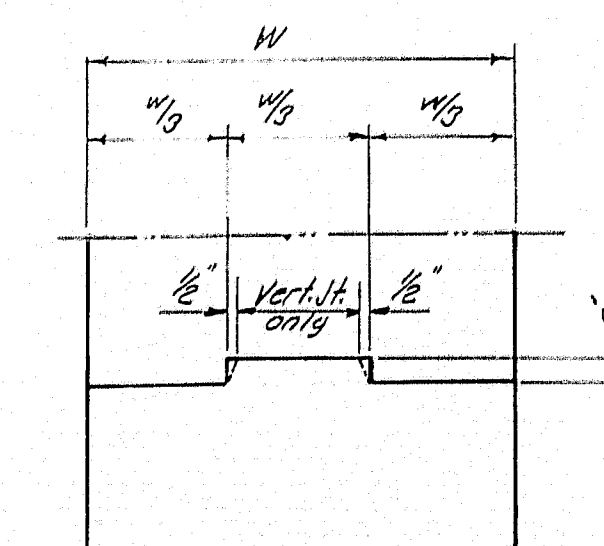
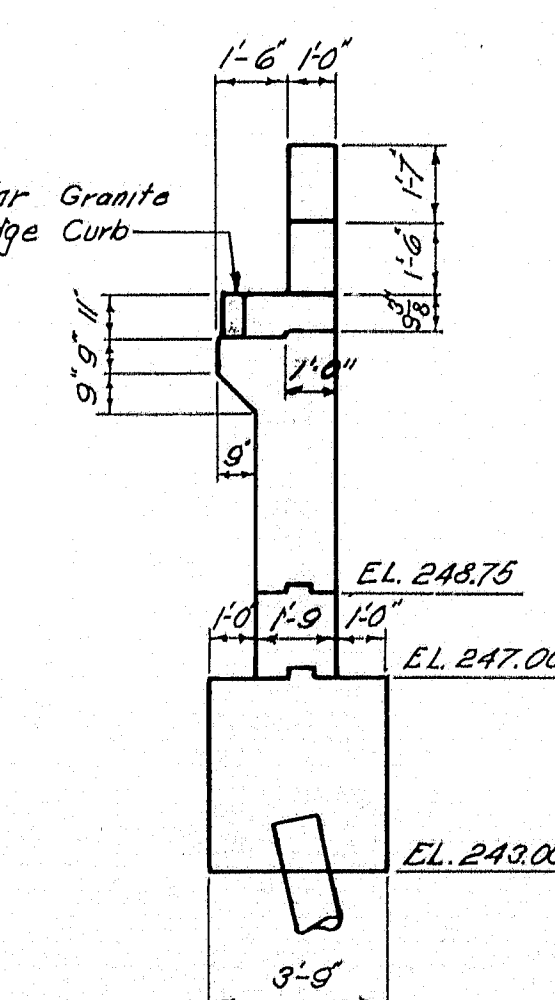
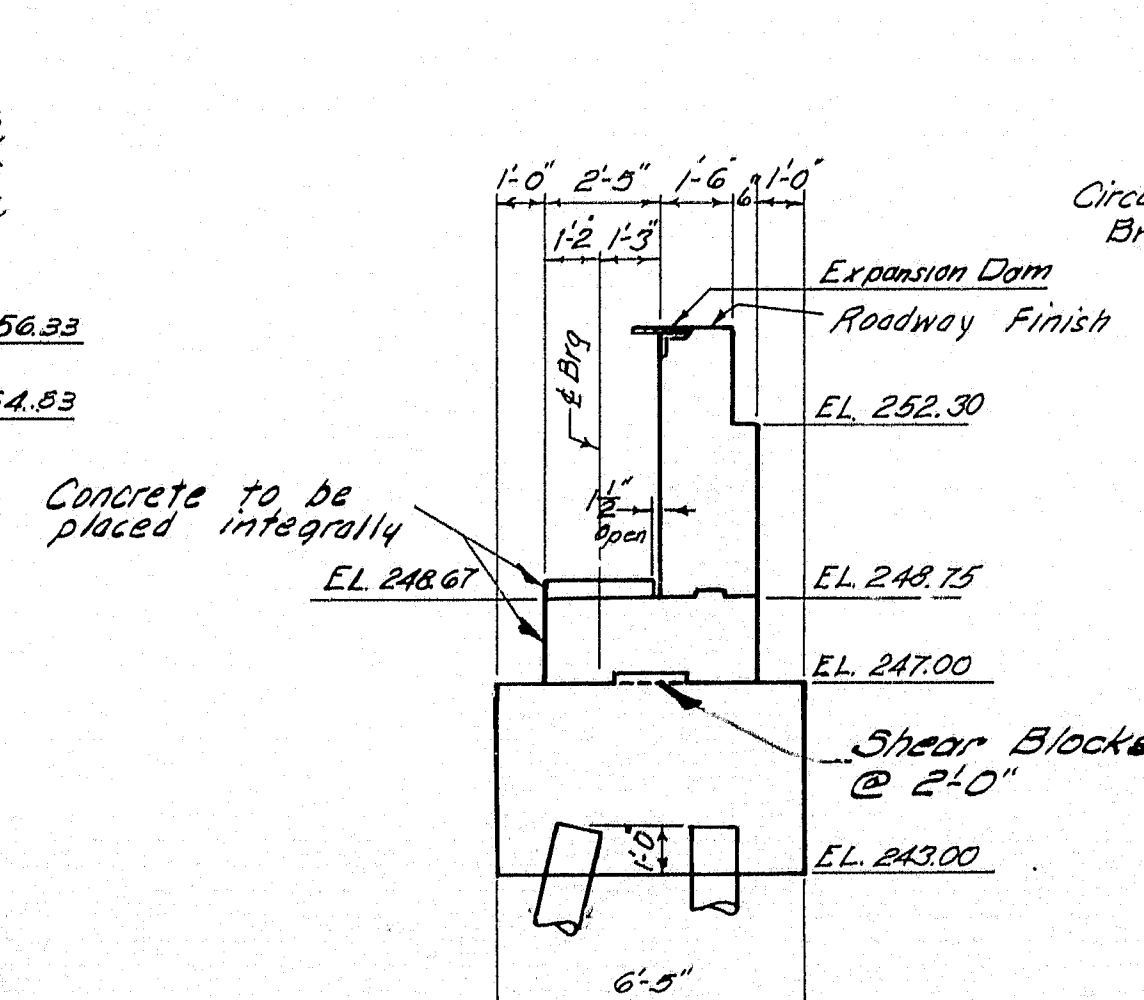
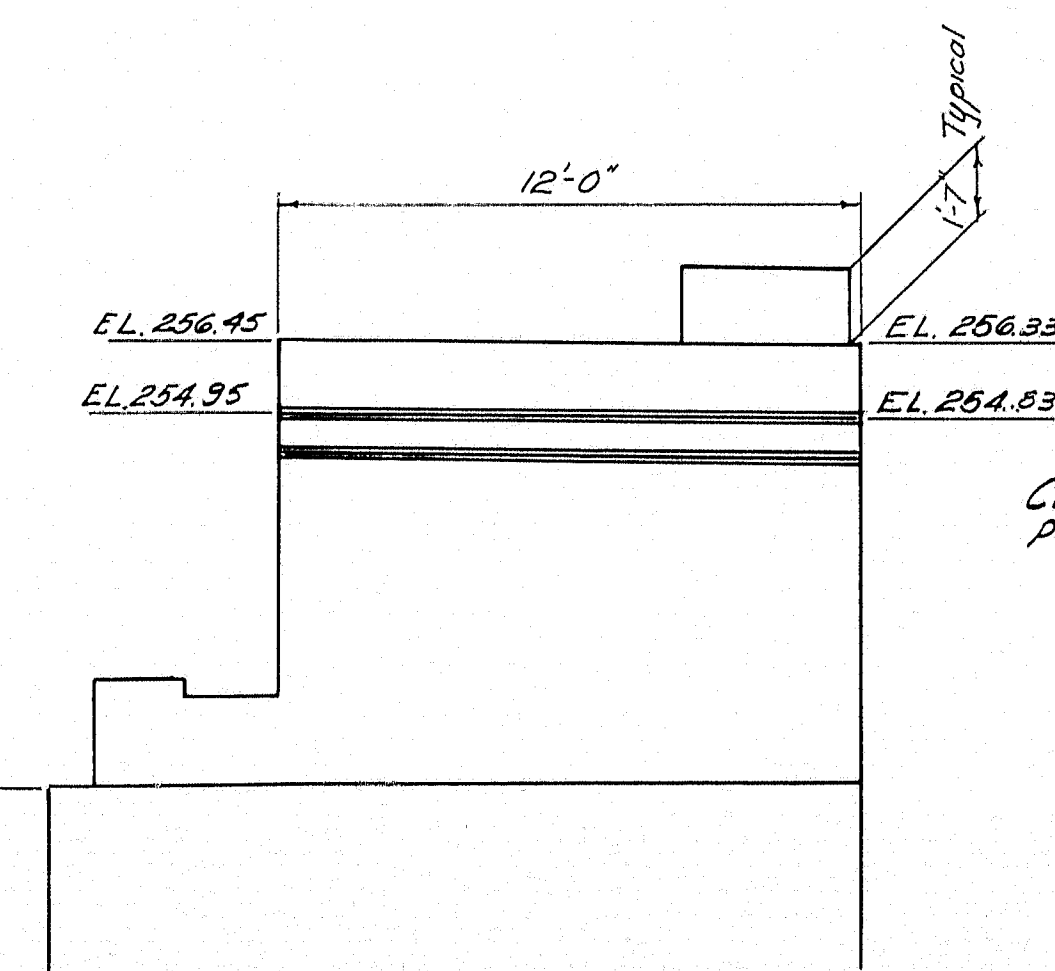
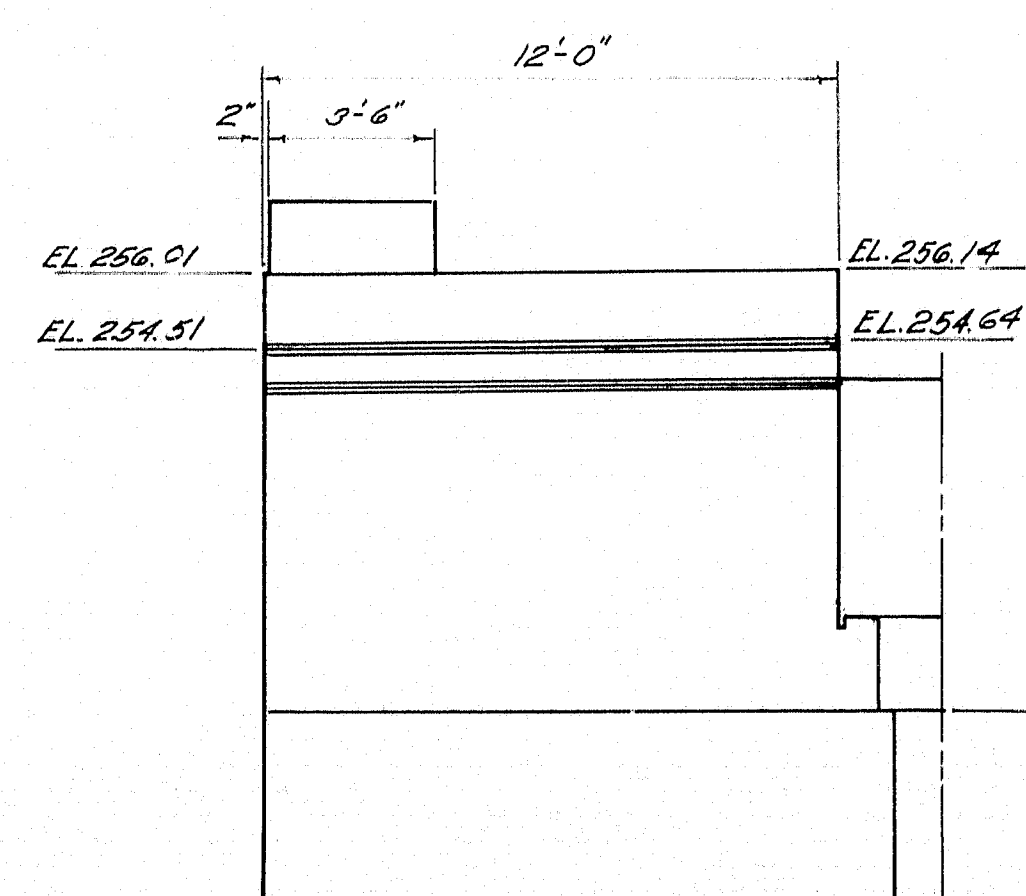
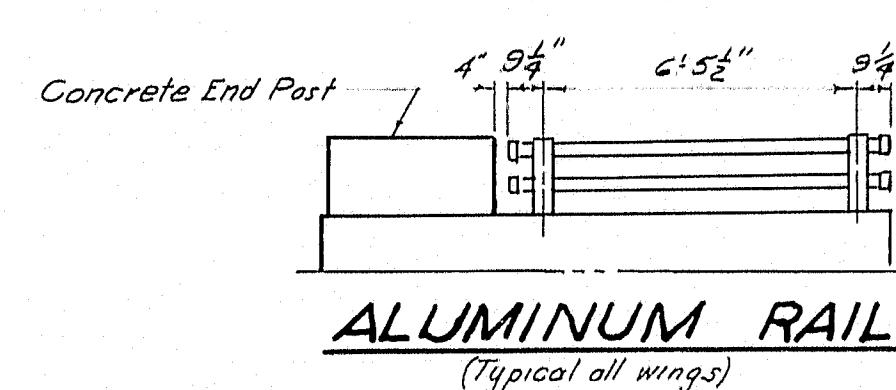
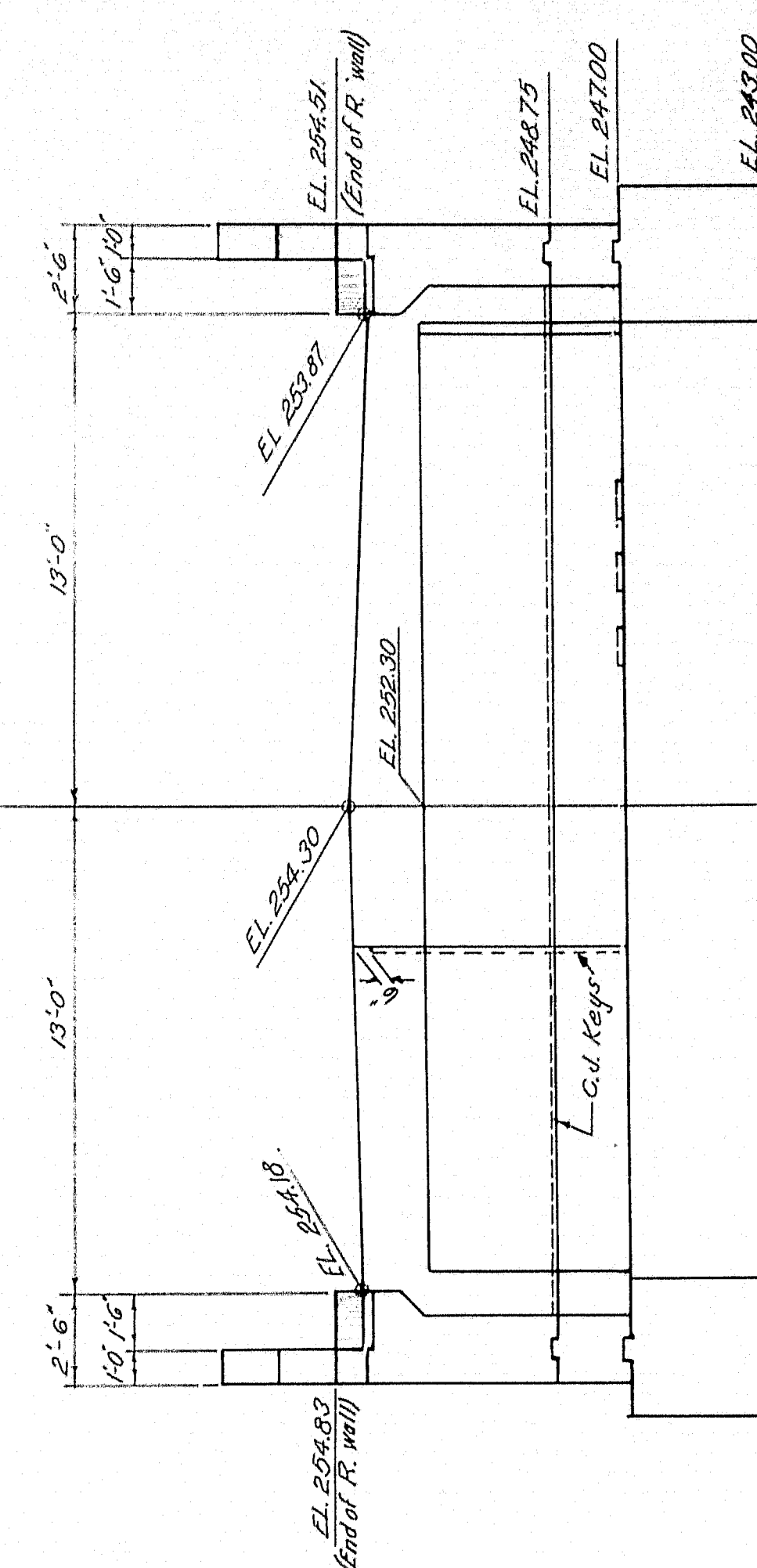
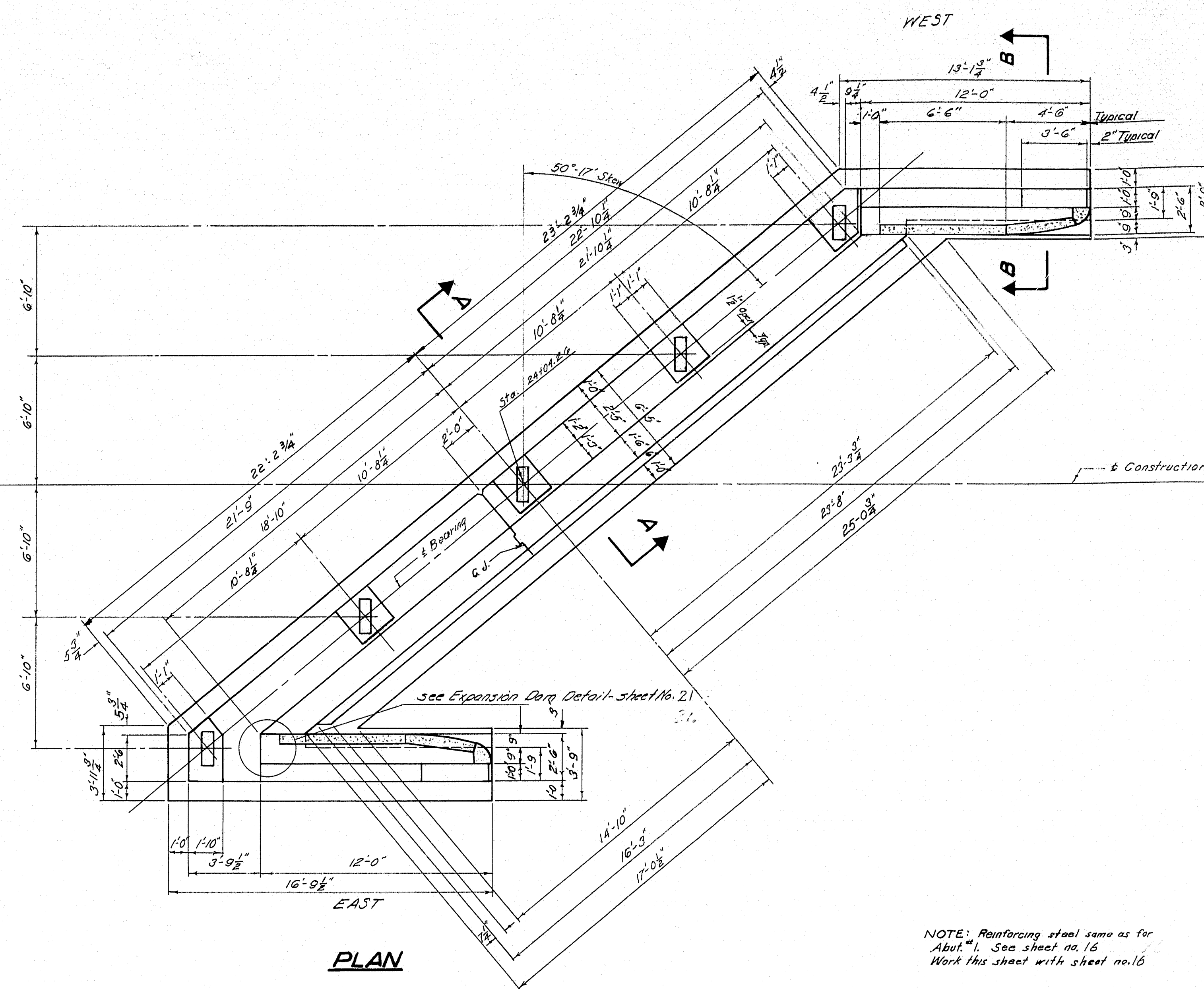
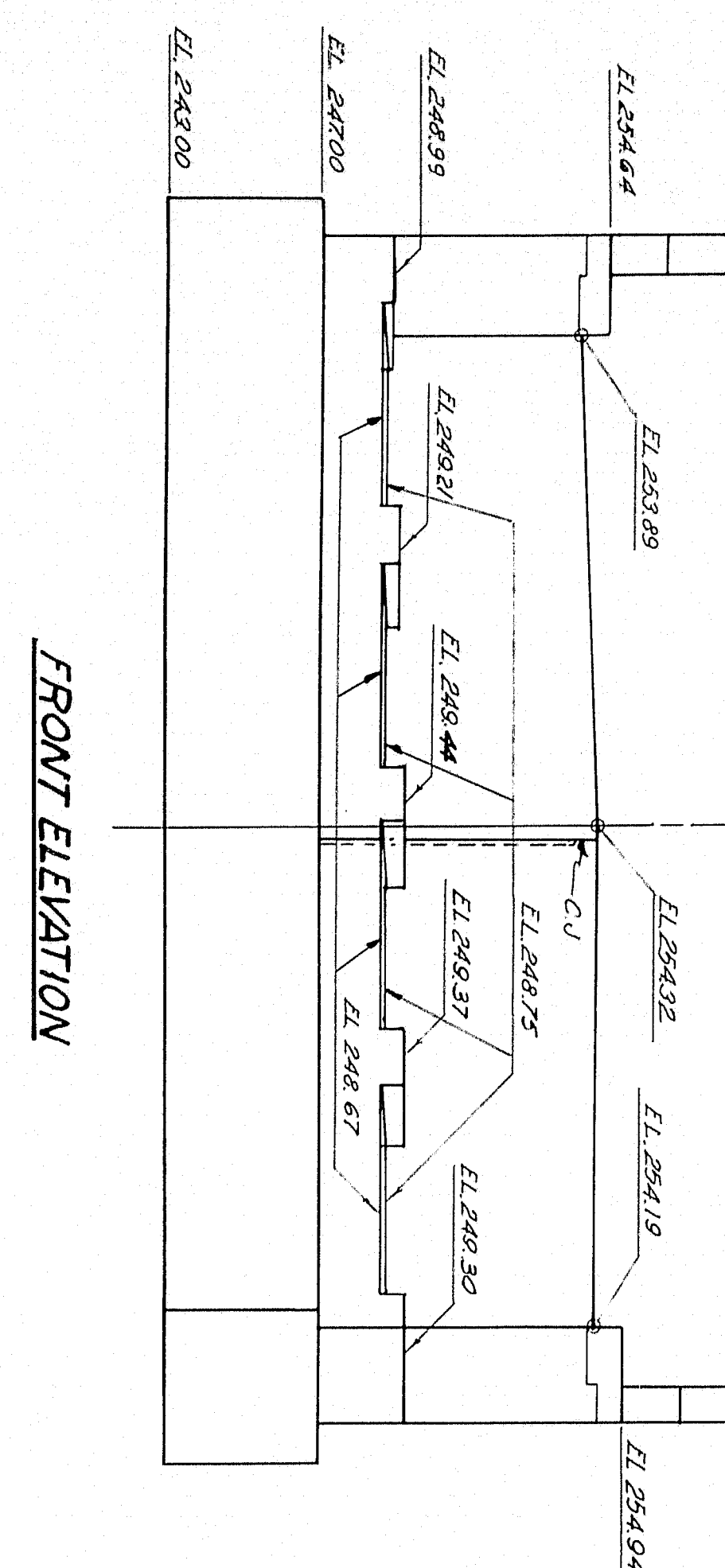
TYPICAL SECTION

DESIGN - W.K.F.	DETAIL - F.S.F.	BRIDGE NO.
TRACE - J.G.	SURVEY -	STATE HIGHWAY COMMISSION
CHECK -	PLOT -	BRIDGE DIVISION
ROUTE NO. 7 BRIDGE		
INTERSTATE NO. 95		
PLYMOUTH		
PENOBSCOT COUNTY		
GRANITE CURB, PILE PLAN, & APP. SLAB		
SHEET 17 OF 26 AUGUSTA, MAINE APRIL 1961		





B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEET
1	MAINE	I-95-7(18)	18	26



NOTE: Reinforcing steel same as for  
Abut. "1. See sheet no. 16  
Work this sheet with sheet no. 16

DESIGN - *W.H.K.*      DETAIL - *J.S.P.*      BRIDGE NO. \_\_\_\_\_  
TRACE - *J.C.*      SURVEY - \_\_\_\_\_  
CHECK - *Coffey*      PLOT - \_\_\_\_\_

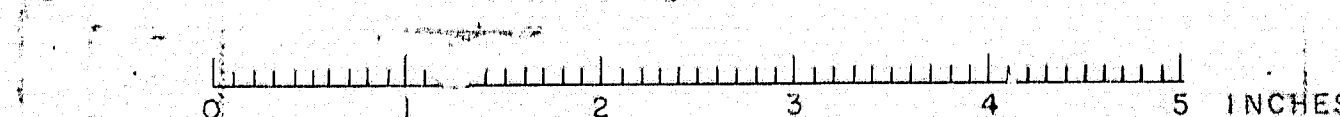
STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

**ROUTE NO. 7 BRIDGE**  
OVER

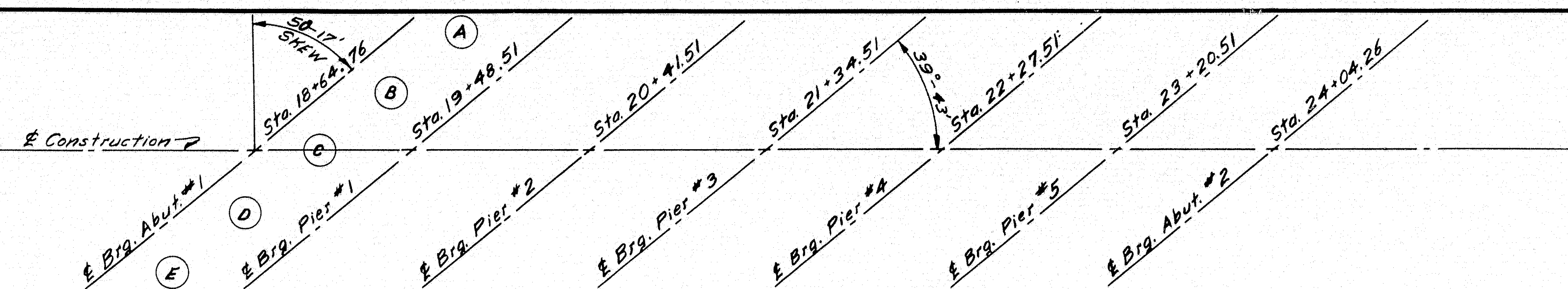
**INTERSTATE NO. 95**  
IN THE TOWN OF  
**PLYMOUTH**  
**PENOBSCOT COUNTY**

ABUTMENT NO. 2

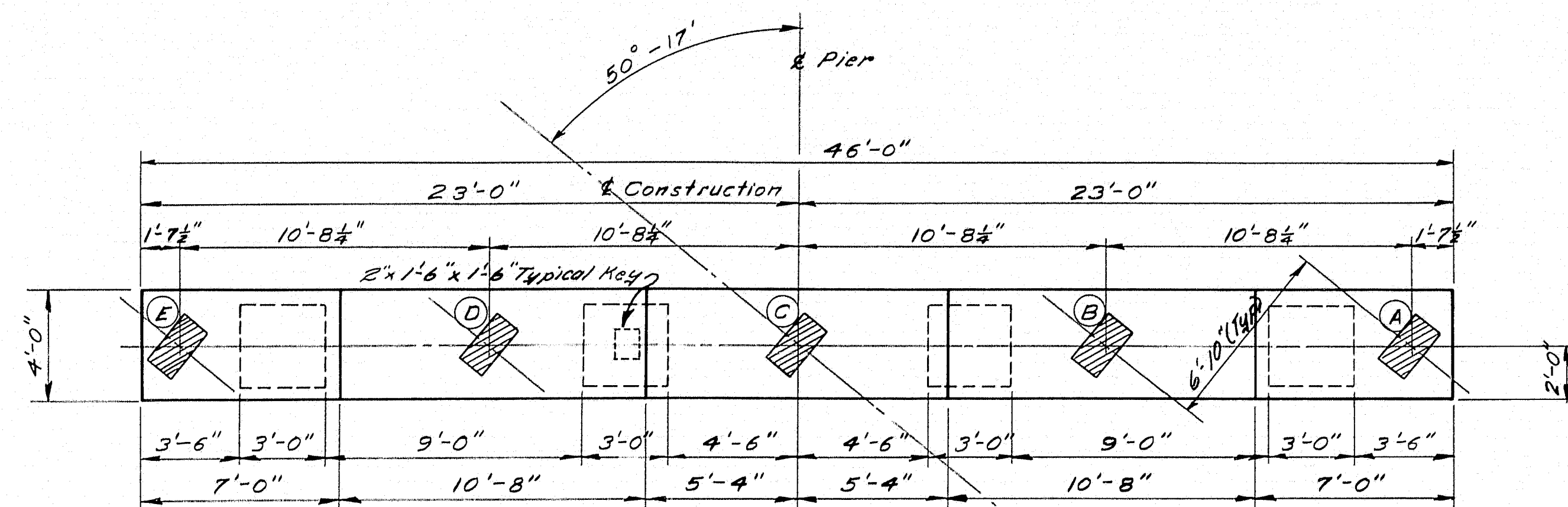
SHEET *18* OF *20*      AUGUSTA, MAINE      APRIL 19*58*





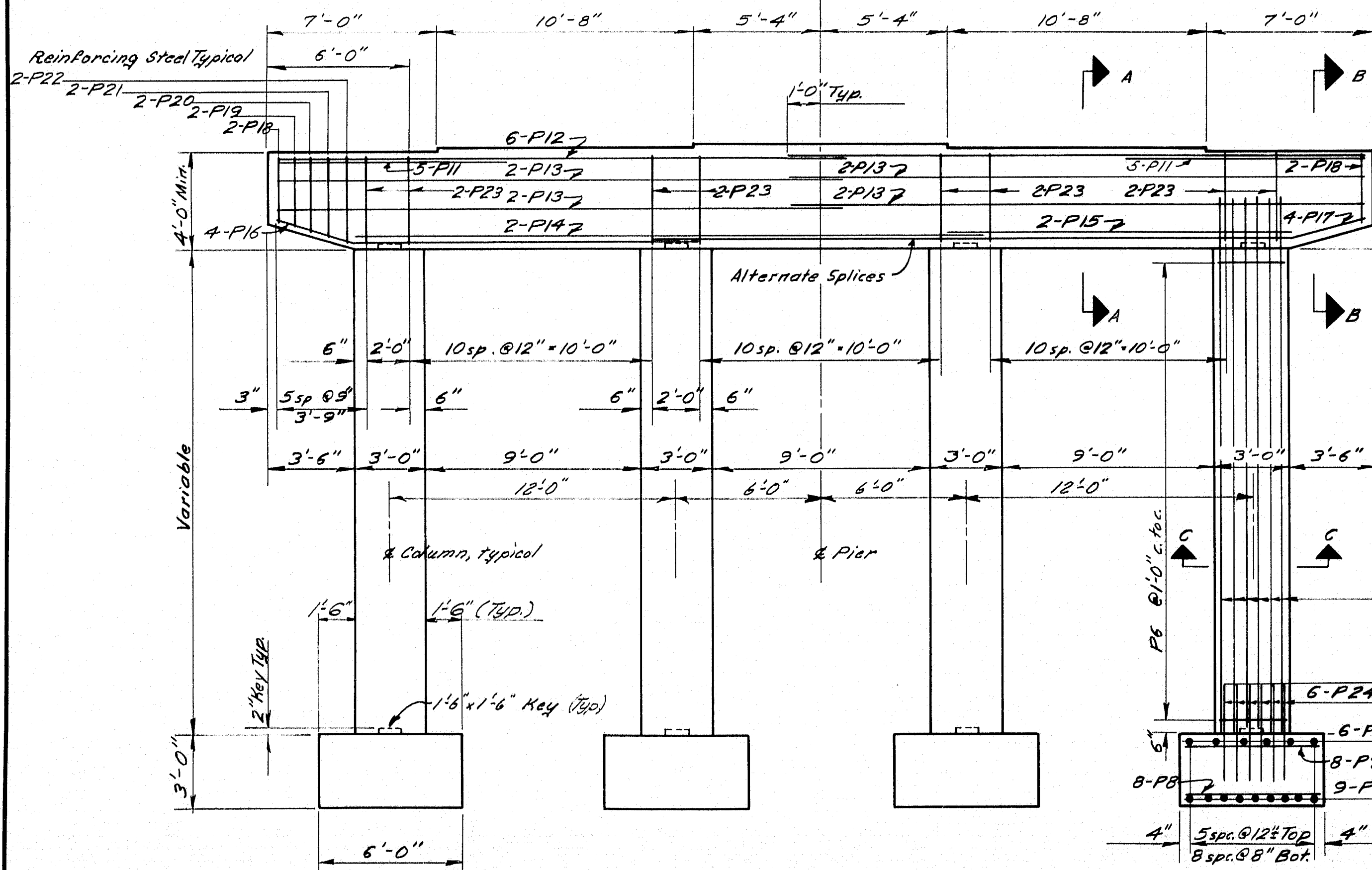


LAYOUT & PIERS



PLAN-PIERS 1 THRU 5

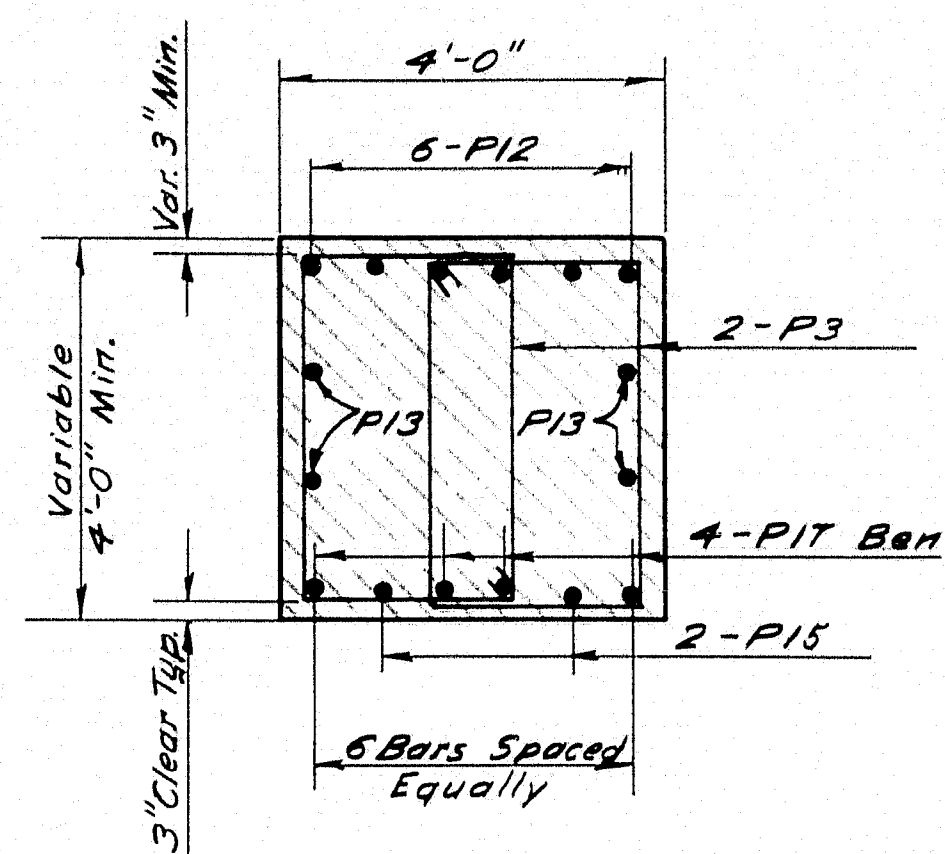
Footings Not Shown



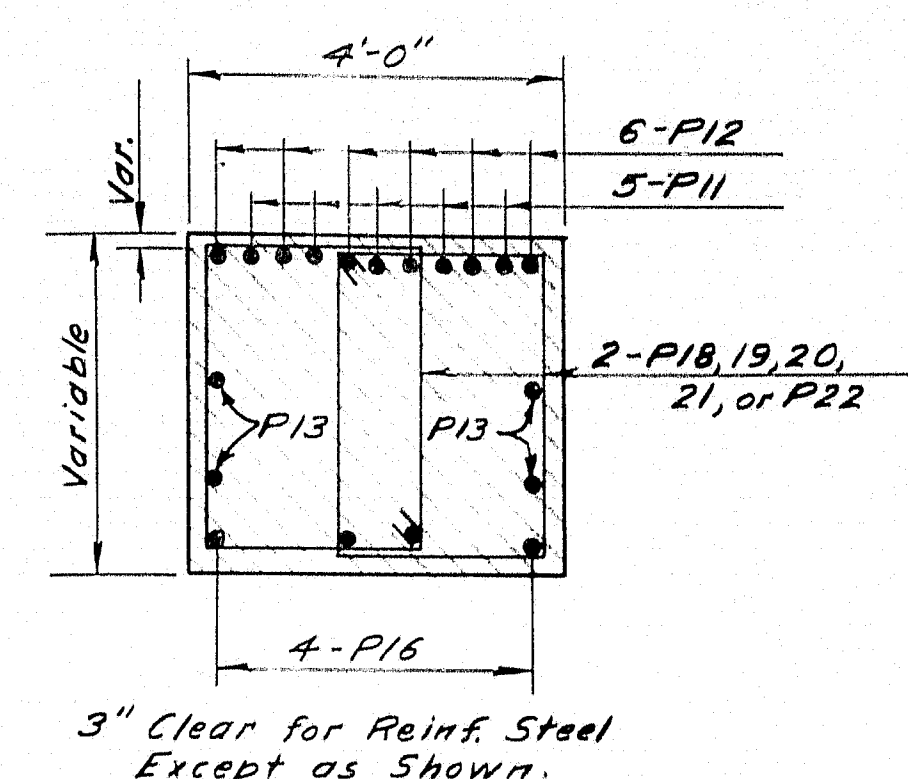
SIDE ELEVATION

NOTE: For footings on ledge, see SIDE ELEVATION-FOOTINGS, PIERS 4 & 5 on this sheet.

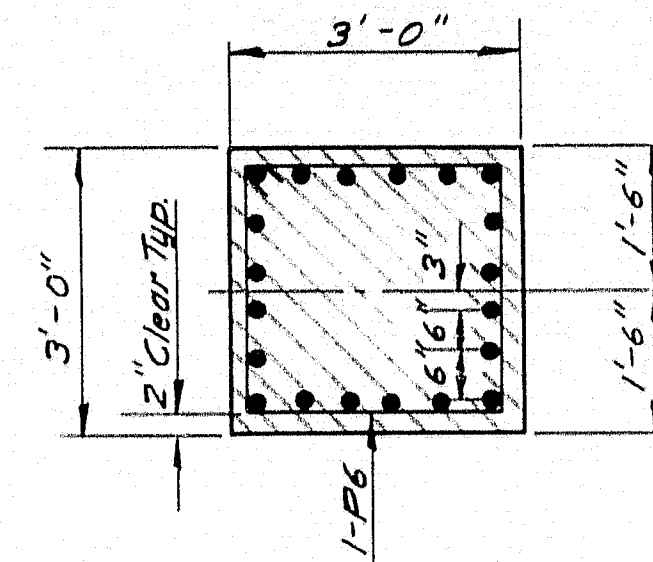
All Reinforcing Steel 3 inches Clear Unless Otherwise Noted.



SECTION A-A



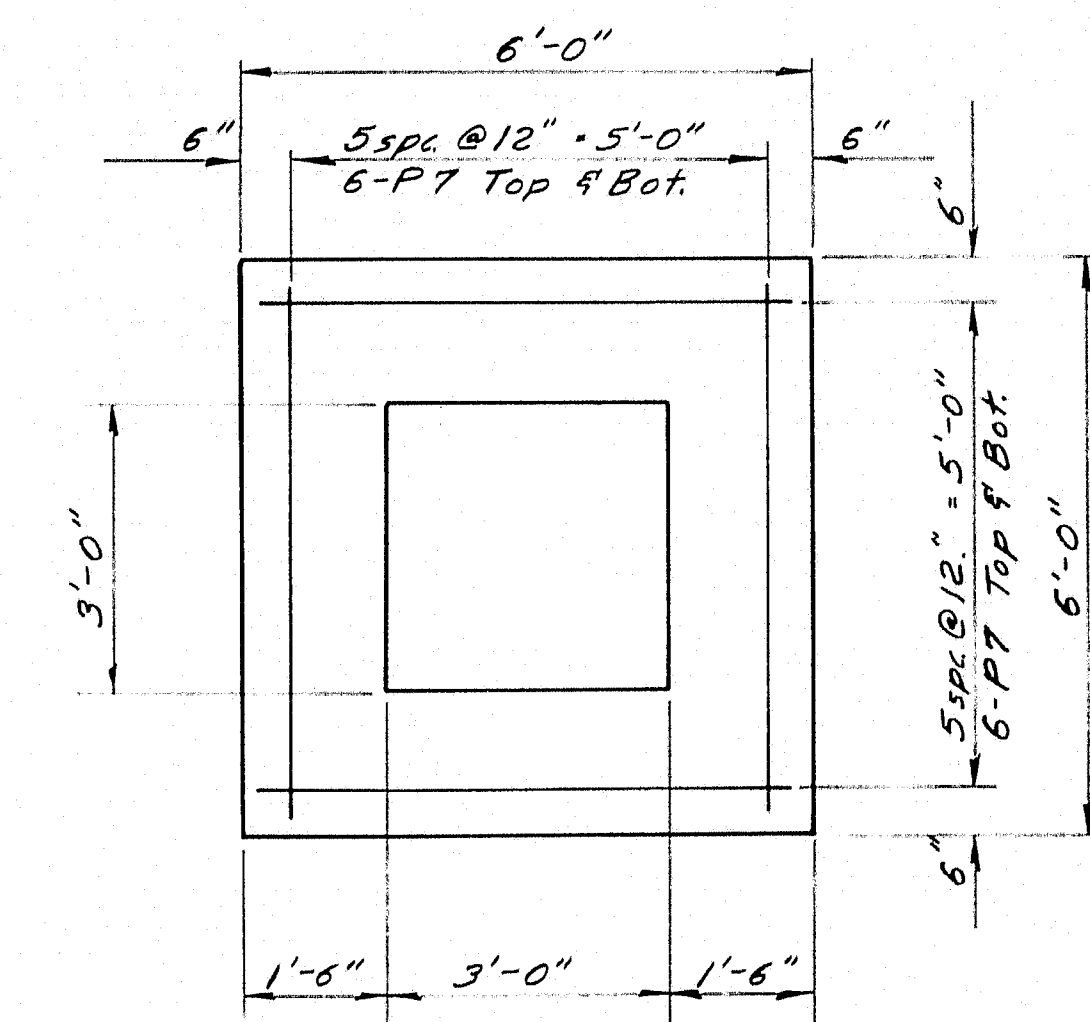
SECTION B-B



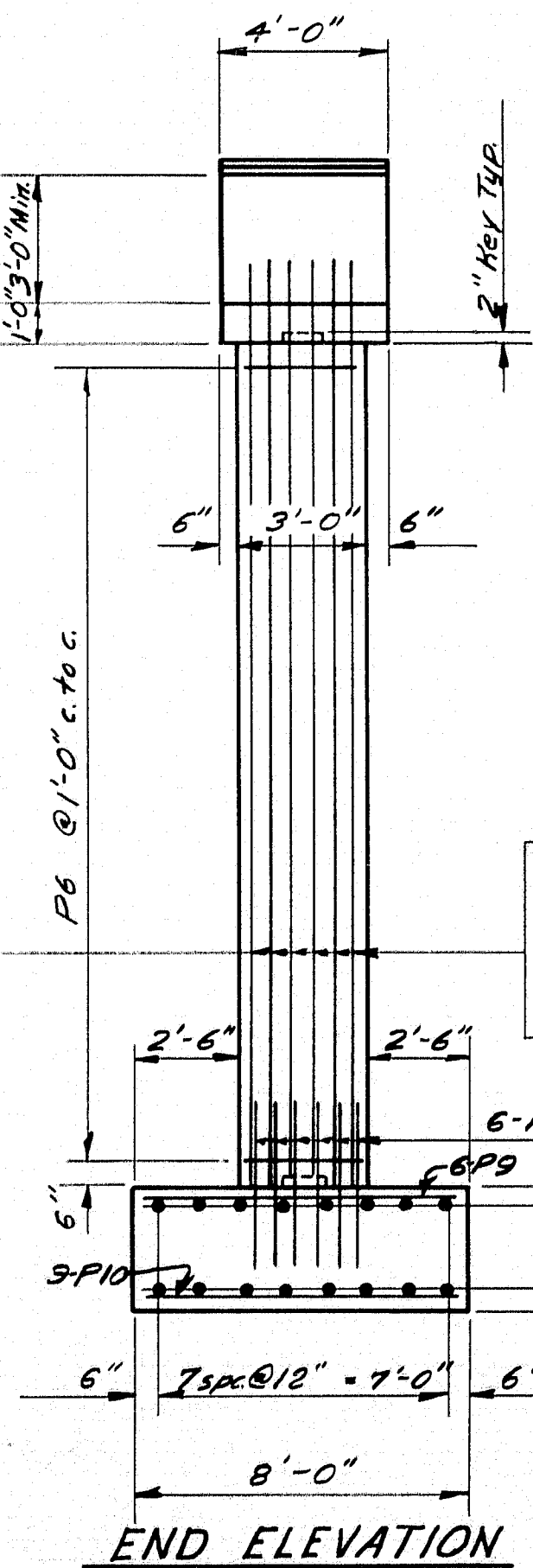
SECTION C-C

Dimensions Typical

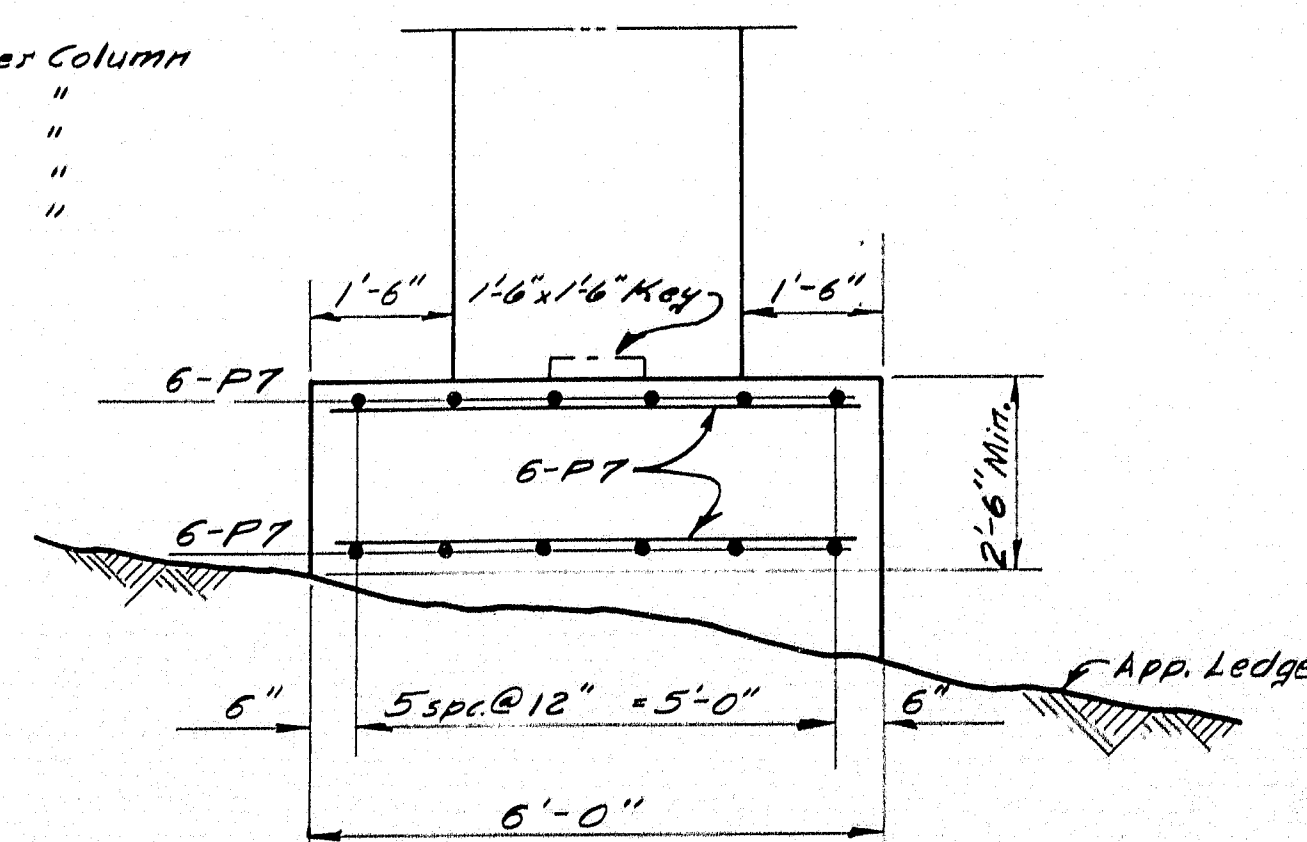
PIER	Elev. Top Footing	Elev. Bot Cap	Elevation Bearing Areas				
			A	B	C	D	E
1	225.00	245.01	249.26	249.34	249.42	249.21	249.01
2	226.50	245.63	249.76	249.88	249.98	249.81	249.63
3	233.00	246.31	250.33	250.47	250.60	250.46	250.31
4	223.00	245.75	249.75	249.92	250.09	249.97	249.85
5	227.50	245.24	249.24	249.44	249.64	249.55	249.46



PLAN-FOOTINGS, PIERS 4 & 5



END ELEVATION



SIDE ELEVATION-FOOTINGS, PIERS 4 & 5

NOTE: Dress shaded bearing areas to exact elevation and one inch larger all around than the required masonry plate. (See Sta. 22 for size of masonry plate.) Reinforcing steel in top of cap to clear anchor bolts.

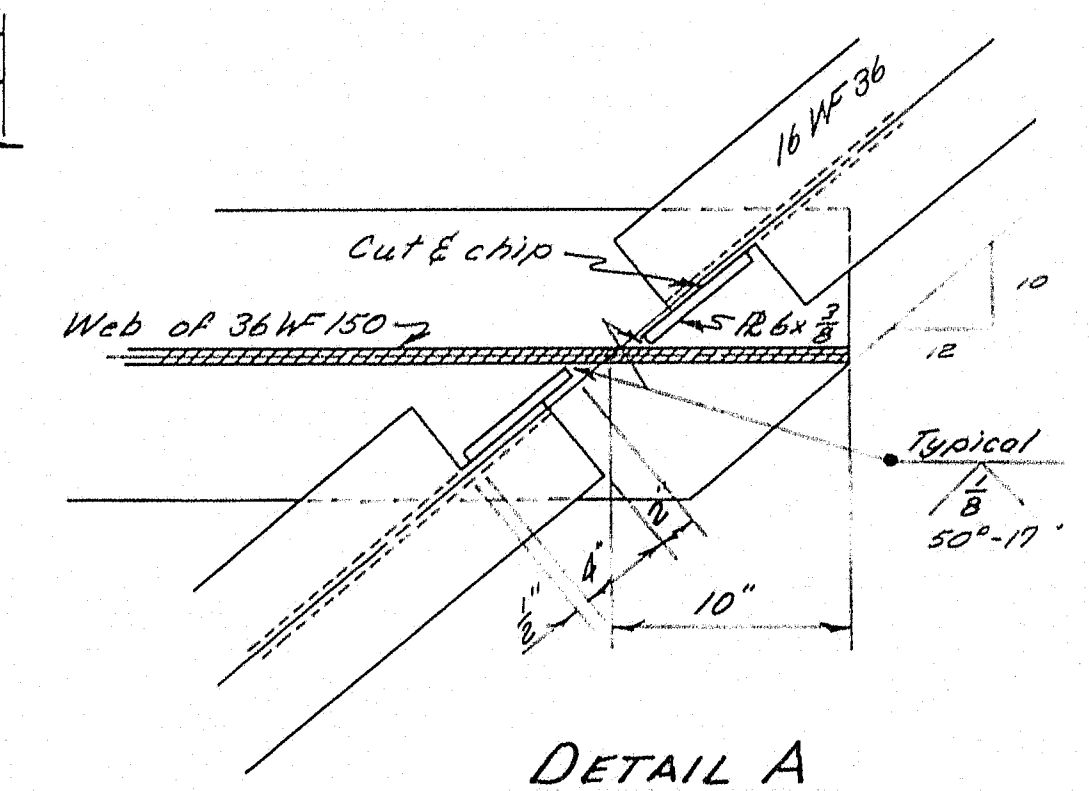
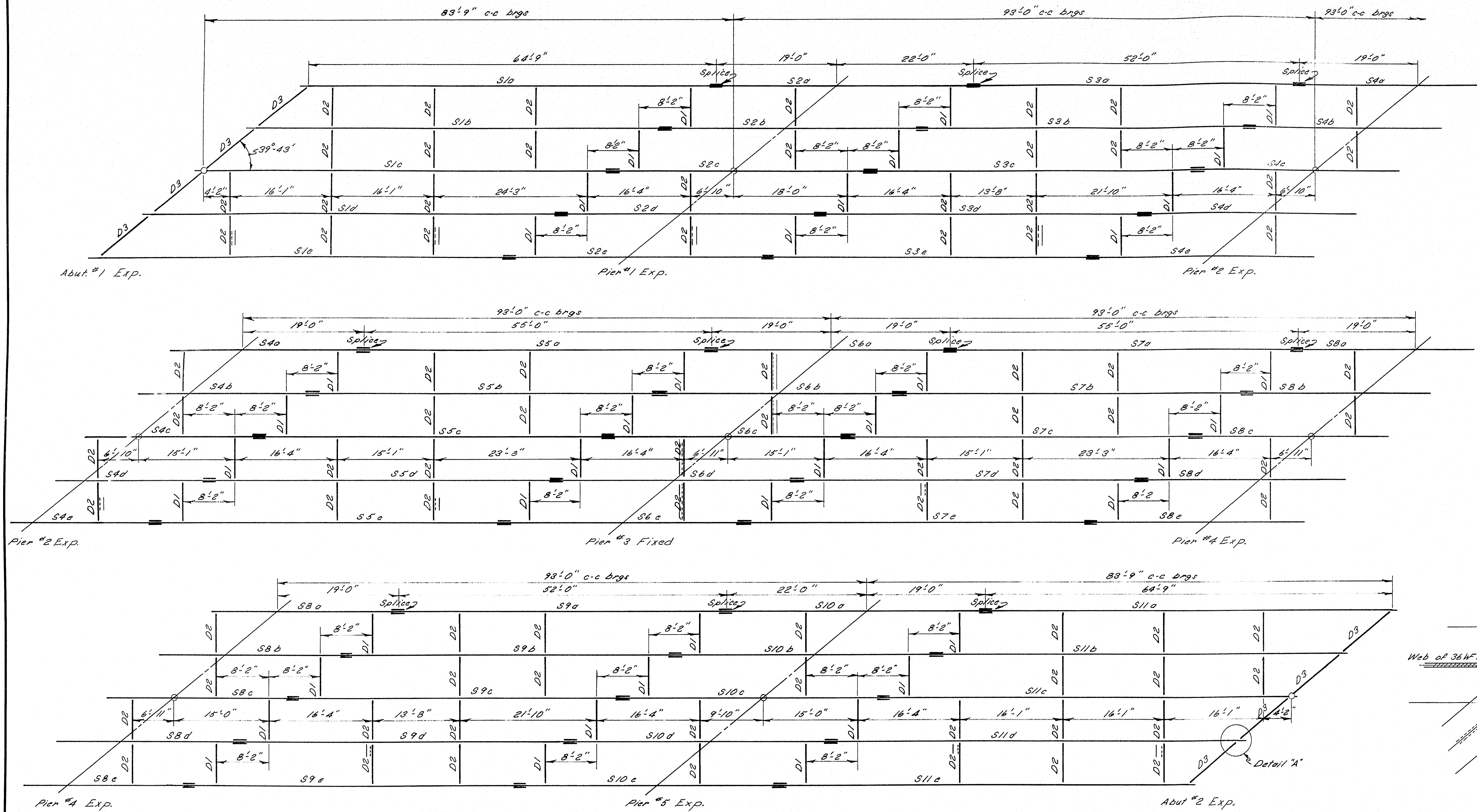
Maximum Footing Pressure  
Piers 1-3 5,700 p.s.f.  
Piers 4-5 7.5 Tons/sq ft

DESIGN - F.H.M. DET. R.W.L.  
TRACE - R.W.L.  
CHECK - C.B.P.  
BRIDGE NO. 7  
SURVEY - PLOT -  
STATE HIGHWAY COMMISSION  
BRIDGE DIVISION  
**ROUTE NO. 7 BRIDGE**  
OVER  
**INTERSTATE NO. 95**  
IN THE TOWN OF  
**PLYMOUTH**  
**PENOBSCOT COUNTY**  
PIERS

SHEET 19 OF 26 AUGUSTA, MAINE APRIL 1961

83-119





### ERECTION DIAGRAM

Diaphragms D1 & D3 ~ 16 WF 36  
D2 ~ 15 C 33.9  
Dimensions to  $\pm$  of D1 & D3  
Dimensions to back of D2

NOTE:  
All Diaphragms D2 (15 C 33.9) shall  
face toward Pier 3 thus:  $\square \rightarrow$  Pier 3,  
except as indicated @ Pier 3.

NOTE:  
No point required where  
steel is in contact with concrete.

DESIGN - MCE TRACE - 2/11/61 CHECK - 7/25	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ROUTE NO. 7 BRIDGE OVER INTERSTATE NO. 95 IN THE TOWN OF PLYMOUTH PENOBSCOT COUNTY	
STRUCTURAL STEEL ERECTION DIAGRAM	
SHEET 20 OF 26	AUGUSTA, MAINE APRIL 1961

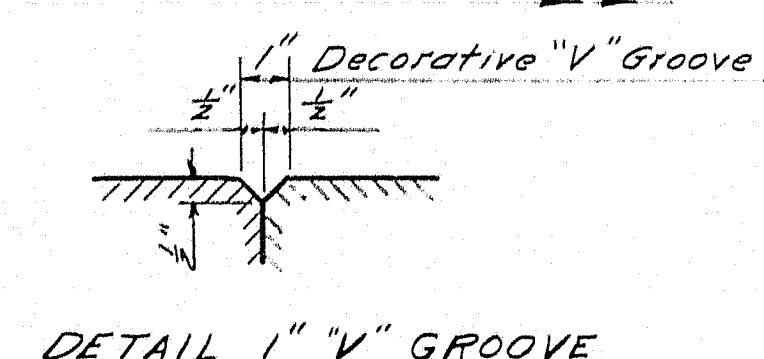
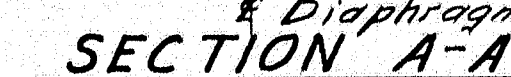
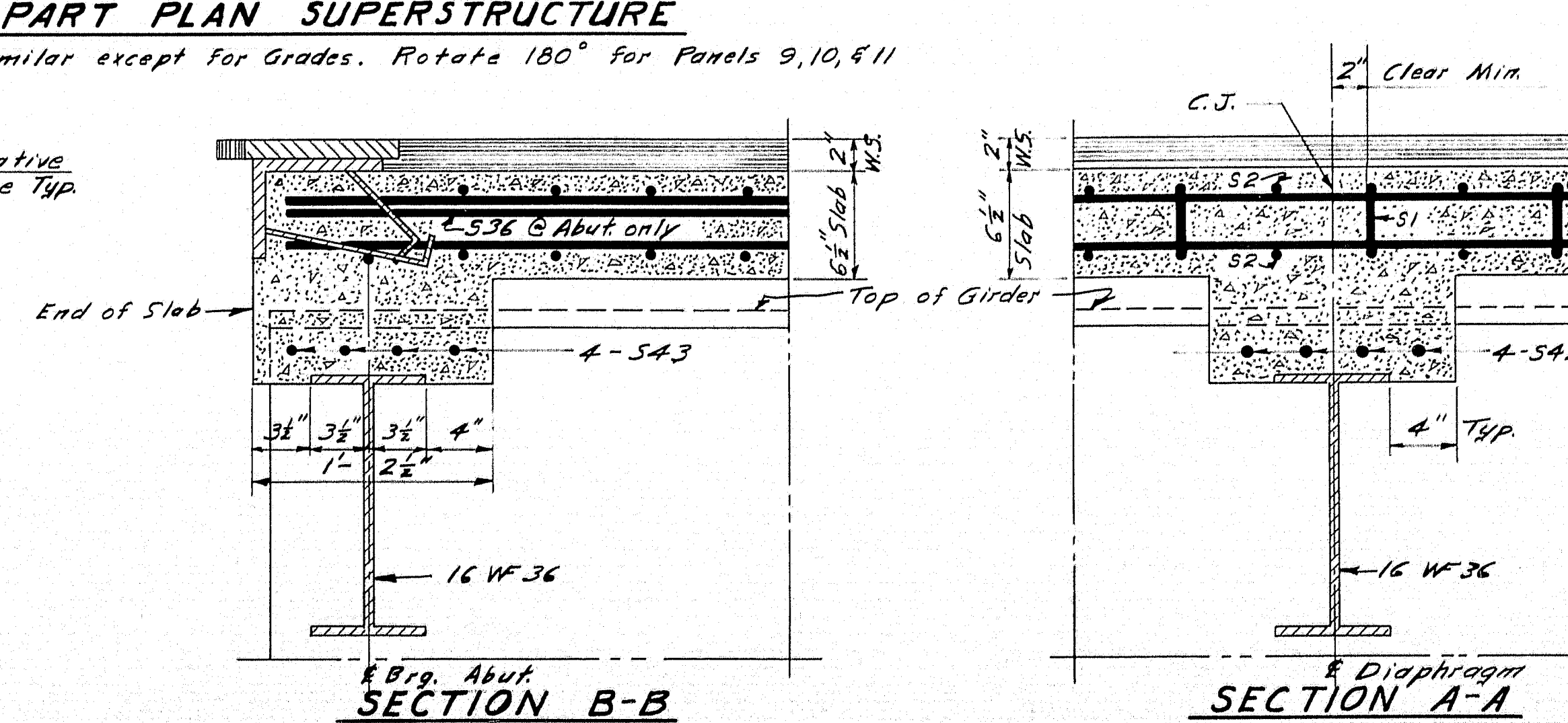
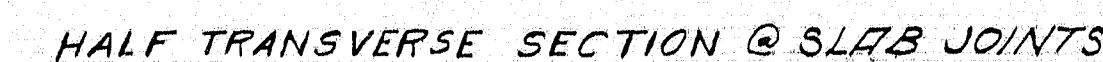
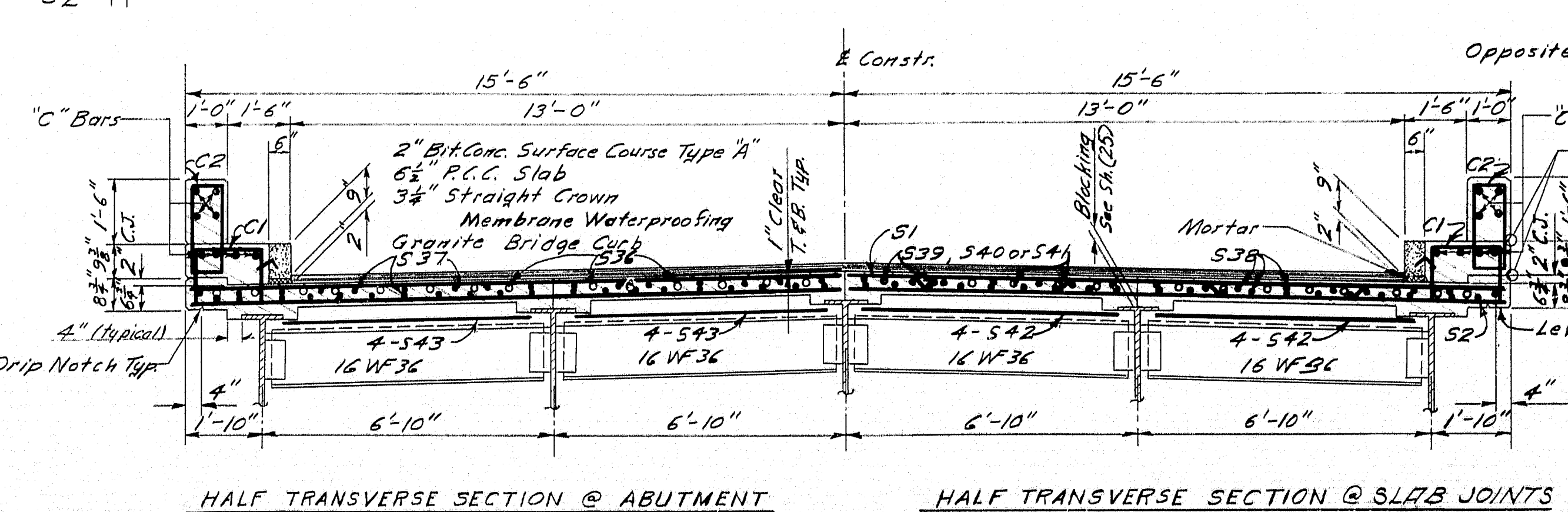
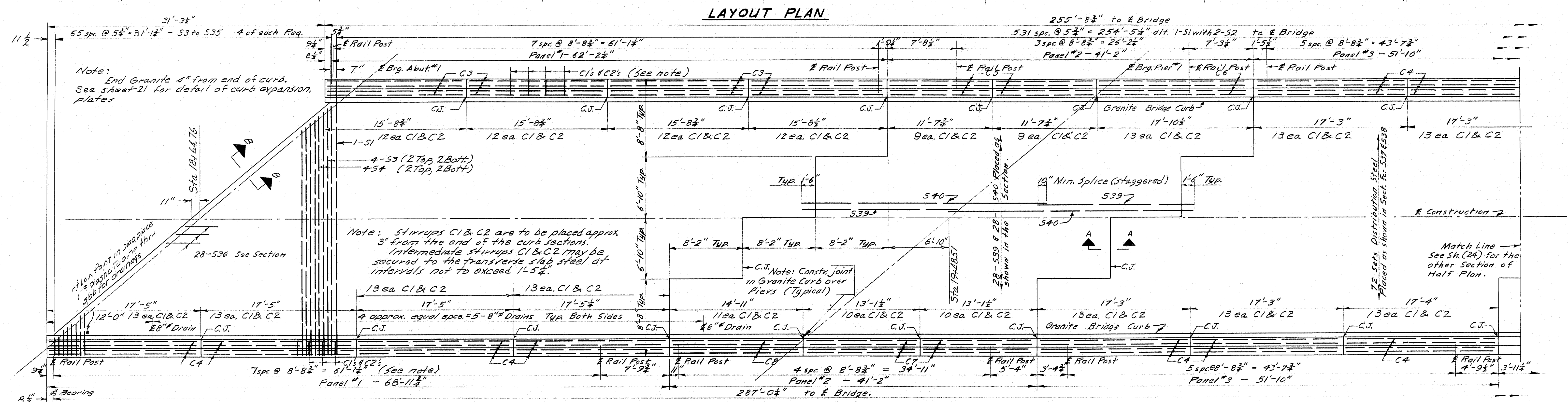
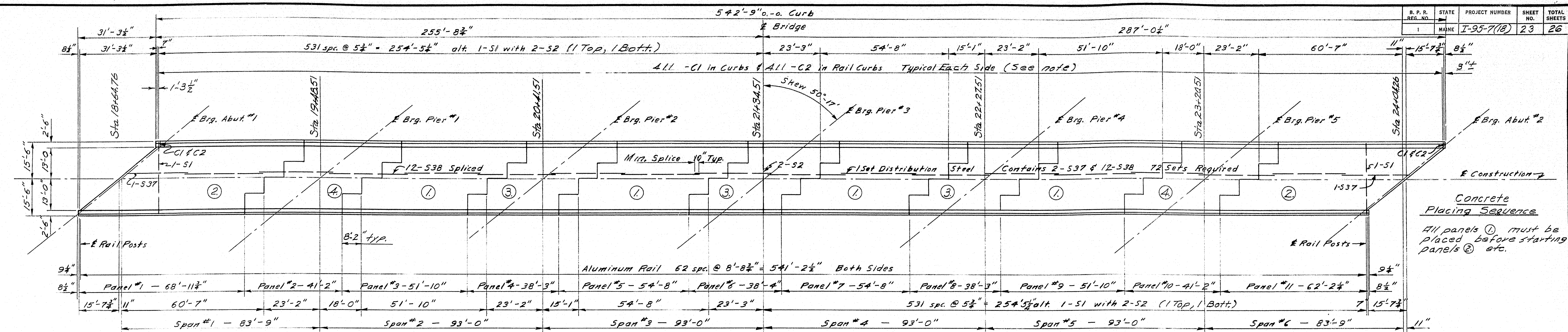












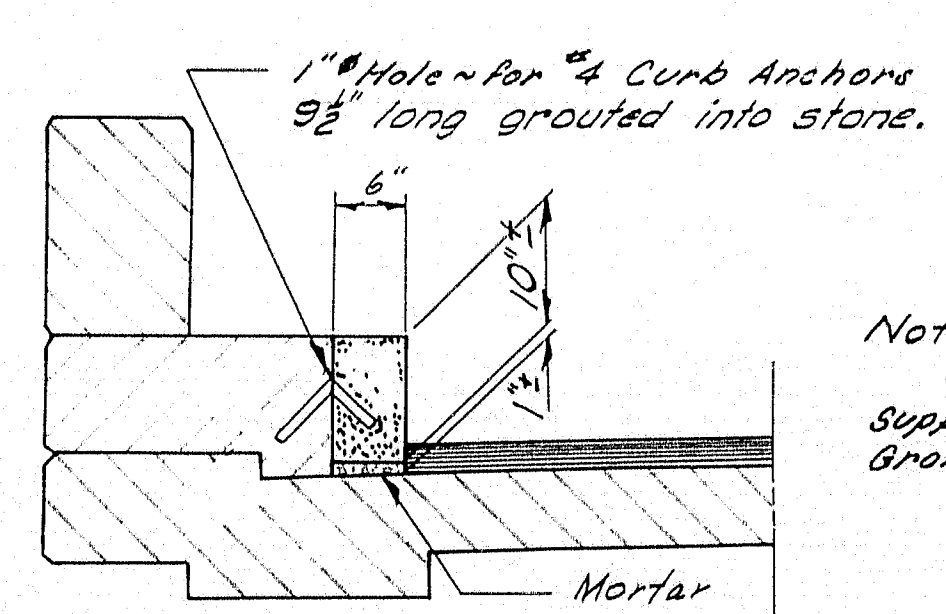
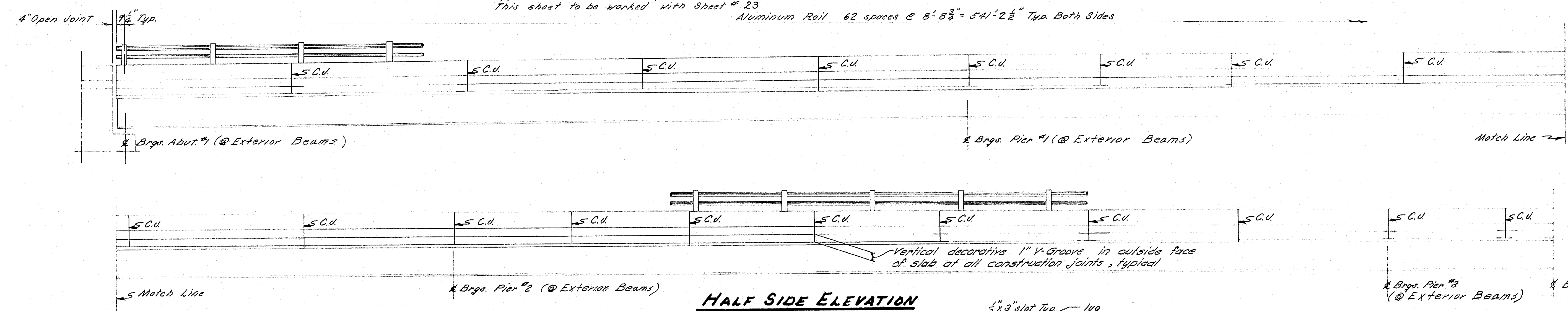
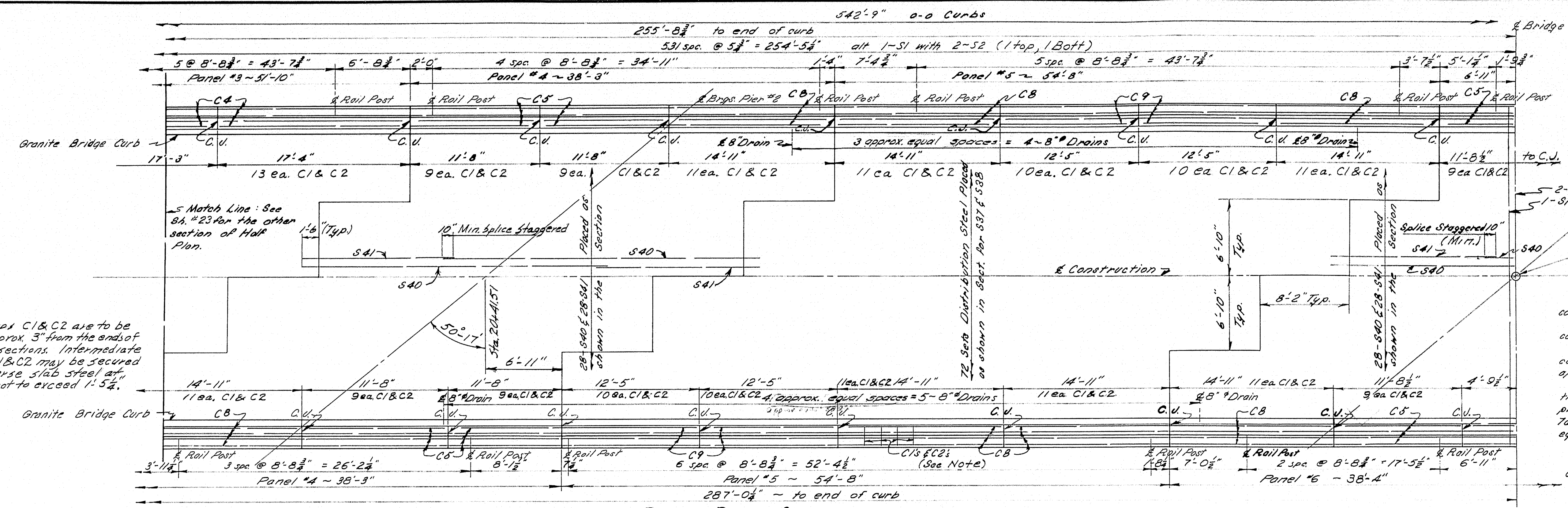
DESIGN- *M.C.P. DET DORITY* BRIDGE NO.  
TRACE- *HWY 1* SURVEY-  
CHECK- *Feobry* PLOT-

STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

ROUTE NO. 7 BRIDGE  
OVER  
INTERSTATE NO. 95  
IN THE TOWN OF  
PLYMOUTH  
PENOBSCOT COUNTY  
SUPERSTRUCTURE

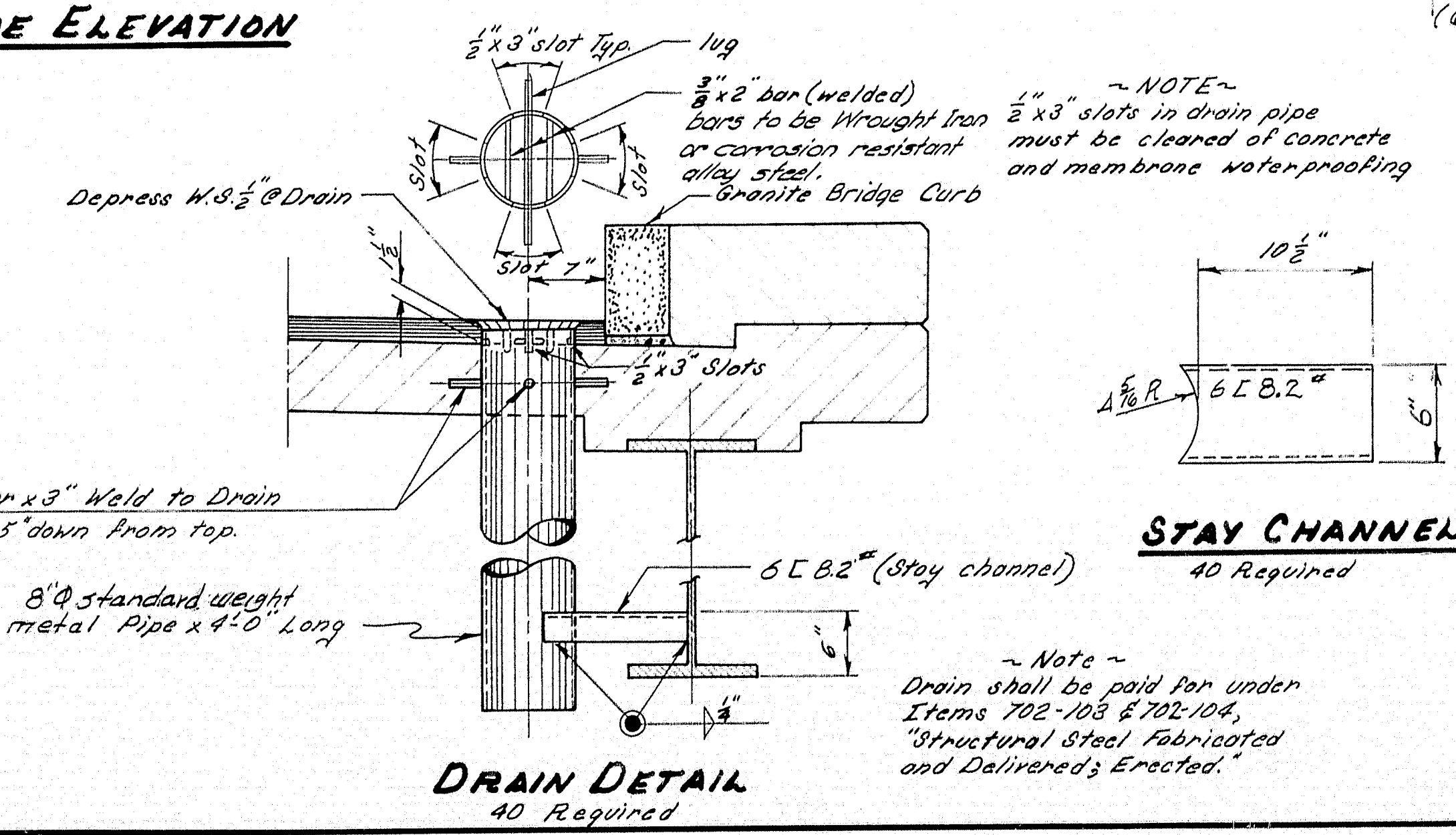
SHEET *23 of 26* AUGUSTA, MAINE APRIL 196





**Note:**  
 Granite Curb shall conform to Supplemental Specification Section 901 Granite Bridge Curb

**Reference:**  
 Structural Sh. # 21  
 Blocking Sh. # 25  
 Rail Details Sh. # 26  
 Slab Layout Sh. # 23  
 Granite Bridge Curb Sh. # 17



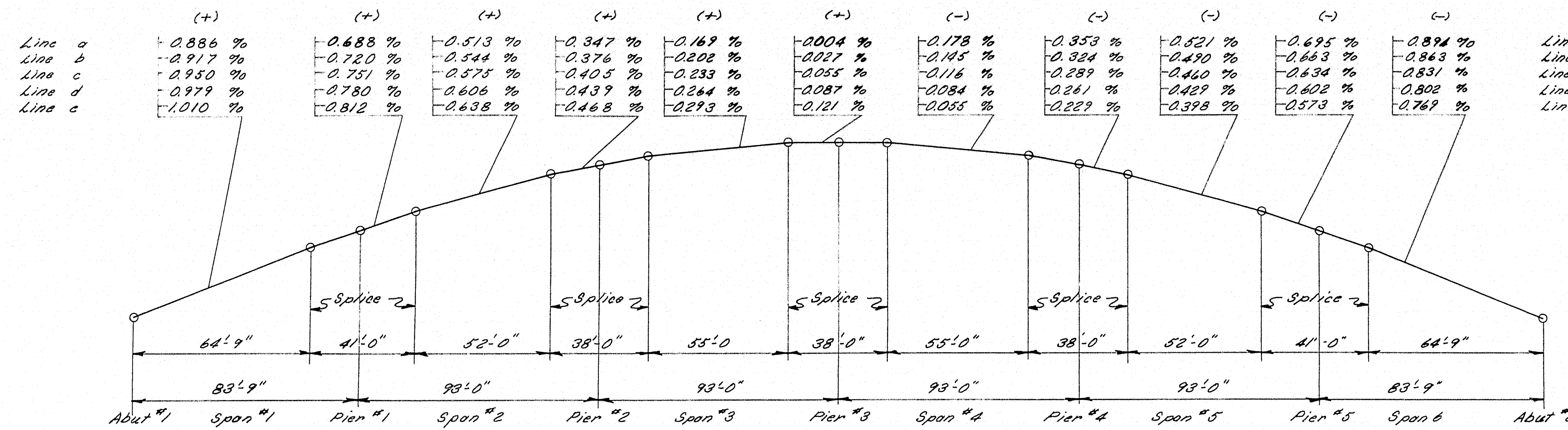
DESIGN - M.C. DEB-DOERTY	BRIDGE NO.
TRACE - L.M.C.	SURVEY -
CHECK - PEURY	PLOT -

STATE HIGHWAY COMMISSION  
 BRIDGE DIVISION

**ROUTE NO. 7 BRIDGE**  
 OVER  
**INTERSTATE NO. 95**  
 IN THE TOWN OF  
**PLYMOUTH**  
**PENOBSCOT COUNTY**  
 SUPERSTRUCTURE

SHEET 24 OF 26 AUGUSTA, MAINE APRIL 1961

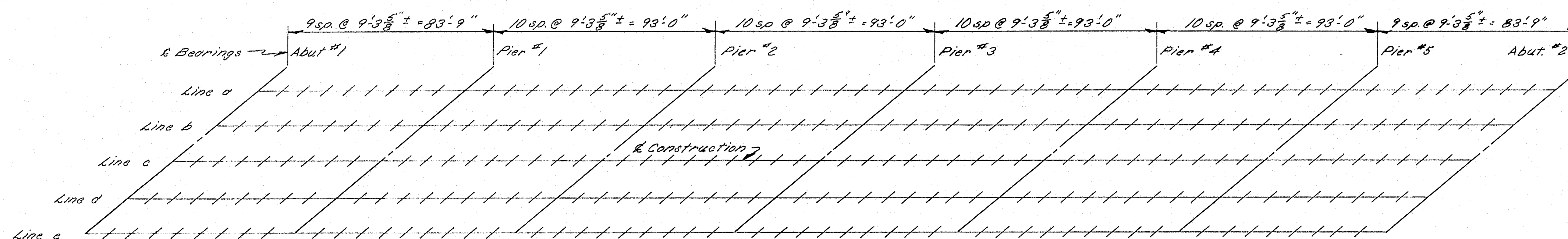




NOTE:  
Dimensions are horizontal and are to working points shown on structural steel details. Grades are parallel to beam flanges, without deflections and cambers.

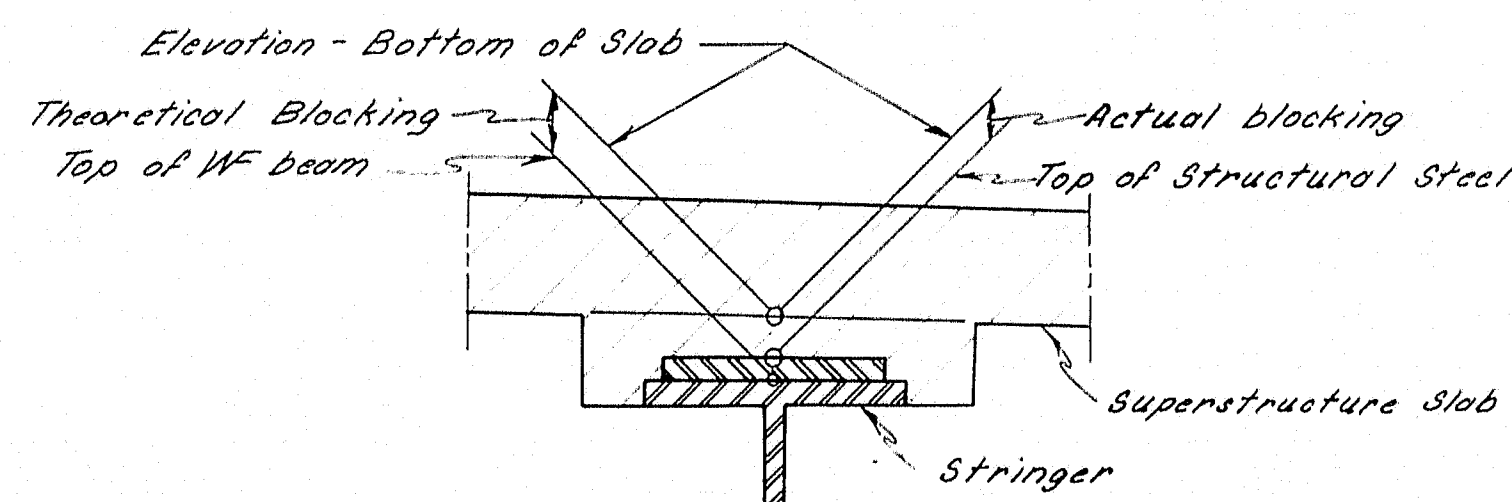
### NOMINAL GRADES OF BEAMS

Note: For use in detailing Structural Steel only



### BLOCKING DIAGRAM

NOTE:  
In order for the superstructure slab to conform to the profile and cross sections shown on these plans the accompanying table of elevations is given. Elevations for the bottom of the slab are computed to compensate for dead load deflections caused by the weight of the concrete deck, curbs, wearing surface and rail. Before any slab forms are constructed, elevations are to be taken on the top of the structural steel at the points indicated and subtracted from elevations bottom of slab. The result is the actual blocking to be used in the formwork.



### TRANSVERSE SECTION

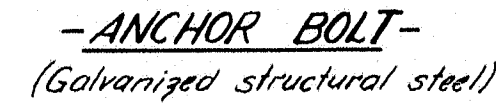
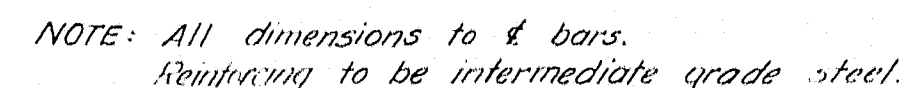
### BLOCKING TABLE \*

Point	Line a	Line b	Line c	Line d	Line e	D.L. Defl.	Theor. Blockg
Brig. Abut #1	253.20	253.20	253.32	253.09	252.85	.000	2 1/2"
1	253.32	253.39	253.45	253.22	252.99	.034	Varies
2	253.46	253.62	253.58	253.56	253.19	.072	do
3	253.54	253.63	253.67	253.47	253.23	.092	do
4	253.65	253.72	253.79	253.57	253.34	.097	do
5	253.72	253.77	253.86	253.65	253.43	.089	do
6	253.78	253.85	253.92	253.71	253.49	.069	do
7	253.82	253.90	253.98	253.76	253.53	.041	do
8	253.87	253.95	254.03	253.82	253.61	.019	do
Brig. Pier #1	253.92	254.00	254.08	253.88	253.67	.000	2 1/2"
1	253.98	254.07	254.15	253.95	253.74	.001	Varies
2	254.05	254.14	254.23	254.03	253.82	.010	do
3	254.12	254.21	254.30	254.11	253.91	.026	do
4	254.19	254.28	254.38	254.18	253.99	.041	do
5	254.25	254.34	254.44	254.23	254.04	.048	do
6	254.29	254.39	254.49	254.30	254.11	.045	do
7	254.32	254.42	254.52	254.34	254.15	.031	do
8	254.35	254.45	254.56	254.37	254.19	.017	do
9	254.37	254.48	254.59	254.41	254.22	.003	do
Brig. Pier #2	254.40	254.52	254.62	254.45	254.27	.000	2 1/2"
1	254.44	254.57	254.67	254.49	254.30	.009	Varies
2	254.48	254.60	254.73	254.53	254.32	.028	do
3	254.53	254.65	254.77	254.60	254.43	.047	do
4	254.57	254.69	254.81	254.65	254.48	.064	do
5	254.59	254.72	254.84	254.68	254.51	.069	do
6	254.60	254.73	254.86	254.70	254.53	.064	do
7	254.61	254.74	254.87	254.70	254.54	.041	do
8	254.63	254.76	254.88	254.72	254.55	.029	do
9	254.64	254.77	254.89	254.73	254.56	.009	do
Brig. Pier #3	254.66	254.78	254.90	254.75	254.58	.000	2 1/2"
1	254.67	254.79	254.91	254.76	254.59	.009	Varies
2	254.68	254.80	254.92	254.77	254.60	.027	do
3	254.69	254.81	254.93	254.78	254.61	.047	do
4	254.70	254.82	254.94	254.79	254.62	.064	do
5	254.71	254.83	254.95	254.80	254.63	.069	do
6	254.72	254.84	254.96	254.81	254.64	.041	do
7	254.73	254.85	254.97	254.82	254.65	.029	do
8	254.74	254.86	254.98	254.83	254.66	.009	do
9	254.75	254.87	254.99	254.84	254.67	.000	2 1/2"
Brig. Pier #4	254.76	254.88	255.00	254.85	254.68	.000	2 1/2"
1	254.77	254.89	255.01	254.86	254.69	.009	Varies
2	254.78	254.90	255.02	254.87	254.70	.027	do
3	254.79	254.91	255.03	254.88	254.71	.047	do
4	254.80	254.92	255.04	254.89	254.72	.064	do
5	254.81	254.93	255.05	254.90	254.73	.069	do
6	254.82	254.94	255.06	254.91	254.74	.041	do
7	254.83	254.95	255.07	254.92	254.75	.029	do
8	254.84	254.96	255.08	254.93	254.76	.009	do
9	254.85	254.97	255.09	254.94	254.77	.000	2 1/2"
Brig. Pier #5	254.86	254.98	255.10	254.95	254.78	.000	2 1/2"
1	254.87	254.99	255.11	254.96	254.79	.009	Varies
2	254.88	255.00	255.12	254.97	254.80	.027	do
3	254.89	255.01	255.13	254.98	254.81	.047	do
4	254.90	255.02	255.14	254.99	254.82	.064	do
5	254.91	255.03	255.15	255.00	254.83	.069	do
6	254.92	255.04	255.16	255.01	254.84	.041	do
7	254.93	255.05	255.17	255.02	254.85	.029	do
8	254.94	255.06	255.18	255.03	254.86	.009	do
9	254.95	255.07	255.19	255.04	254.87	.000	2 1/2"
Brig. Abut #2	254.96	255.08	255.20	255.05	254.88	.000	2 1/2"

\* Elevations - Bottom of Slab



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(18)	26	26



DESIGN—As noted	BRIDGE NO.
TRACE—Foster	SURVEY—
CHECK—As noted	PLOT—

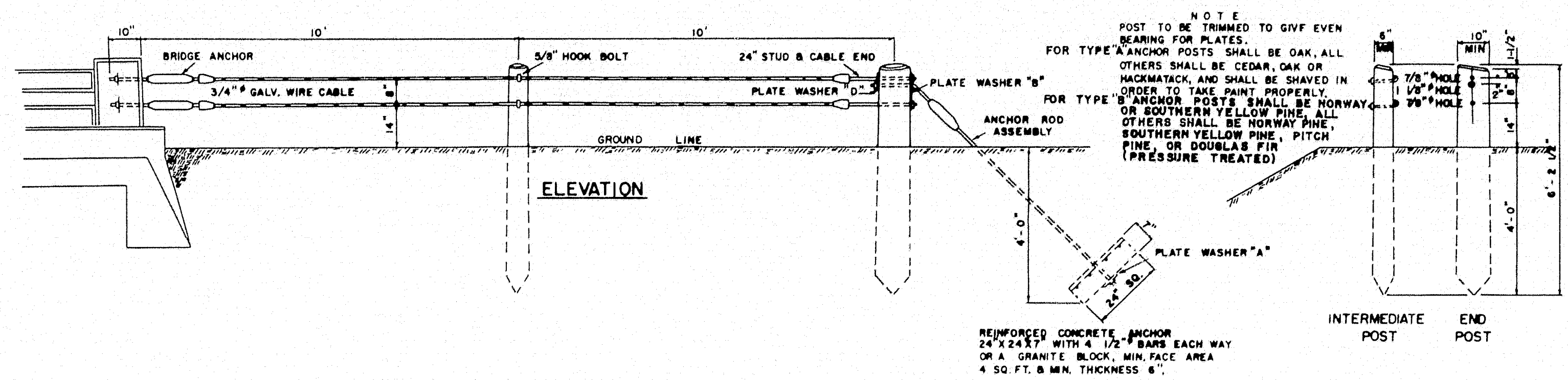
STATE HIGHWAY COMMISSION  
BRIDGE DIVISION

**ROUTE NO. 7 BRIDGE**  
OVER  
**INTERSTATE NO. 95**  
IN THE TOWN OF  
**PLYMOUTH**  
**PENOBSCOT COUNTY**

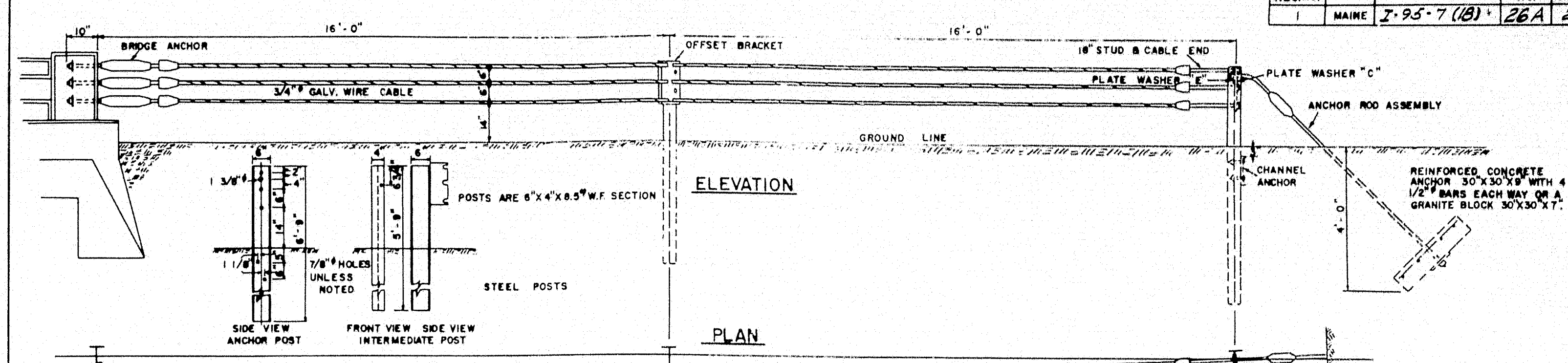
REINFORCING STEEL & RAIL

SHEET 26 of 26    AUGUSTA, MAINE    APRIL    1961

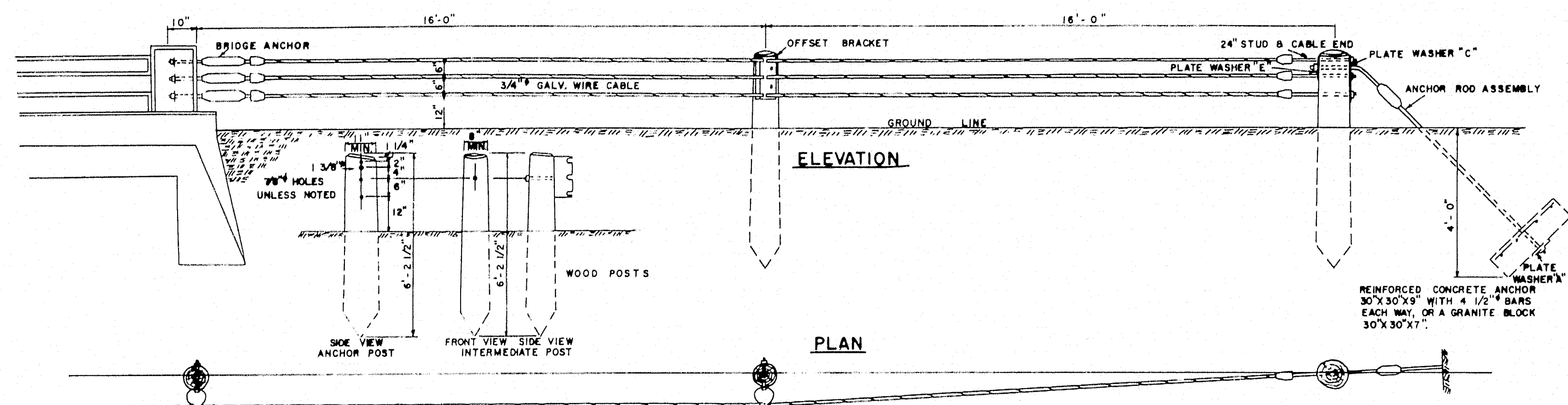




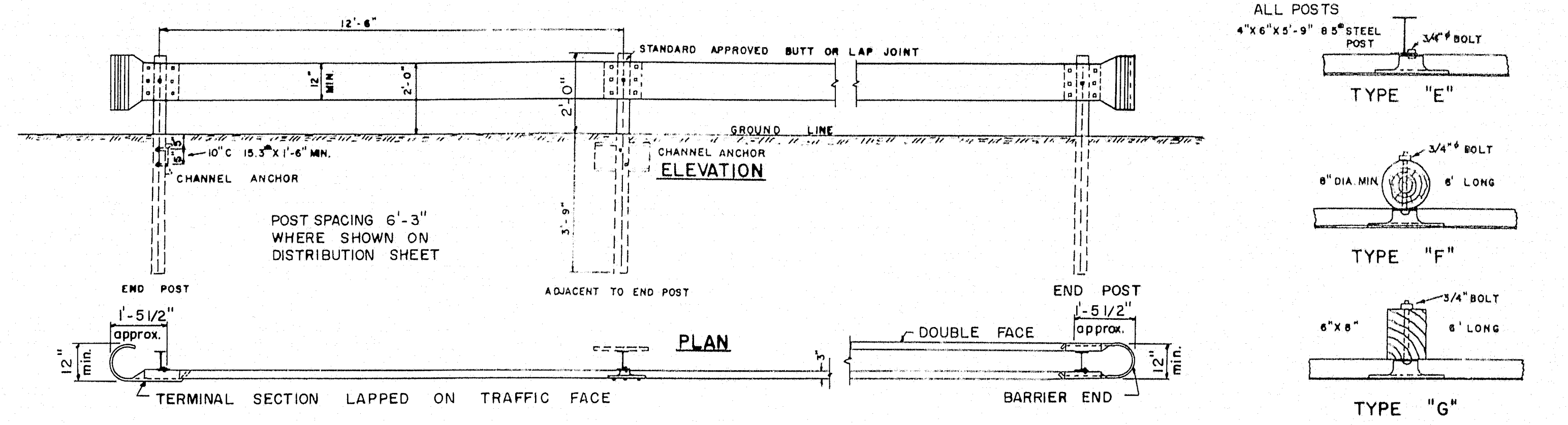
GUARD RAIL TYPE "A" & "B"



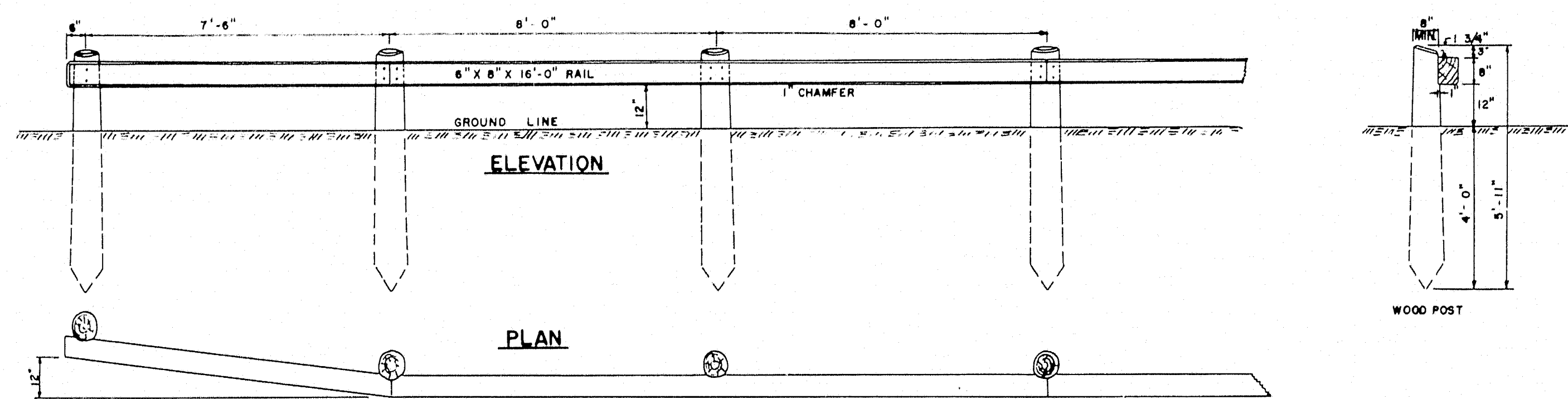
GUARD RAIL TYPE "C"



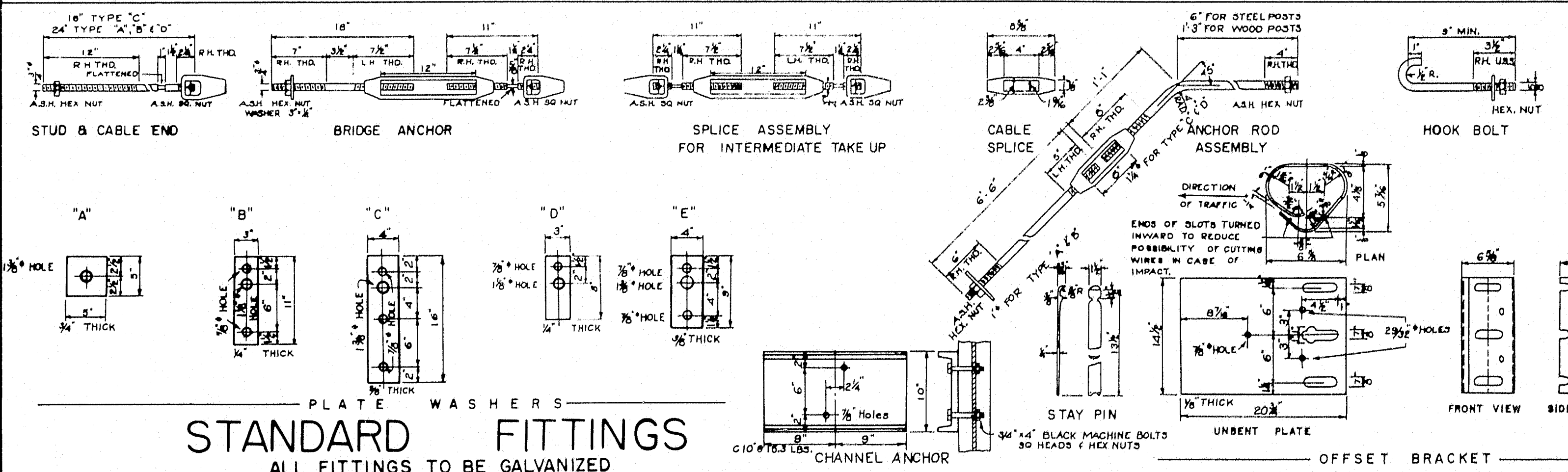
GUARD RAIL TYPE "D"



GUARD RAIL TYPE "E", "F" & "G"

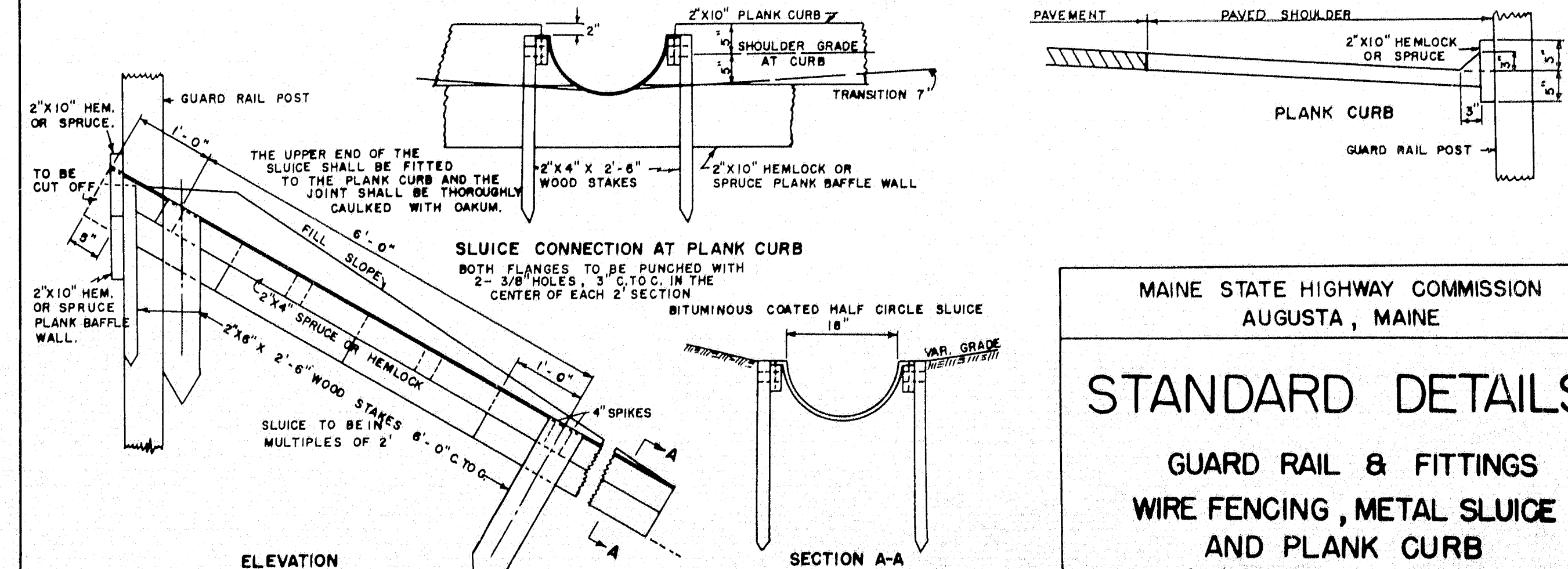


GUARD RAIL TYPE "H"



STANDARD FITTINGS  
ALL FITTINGS TO BE GALVANIZED

### METAL SLUICE AND PLANK CURB

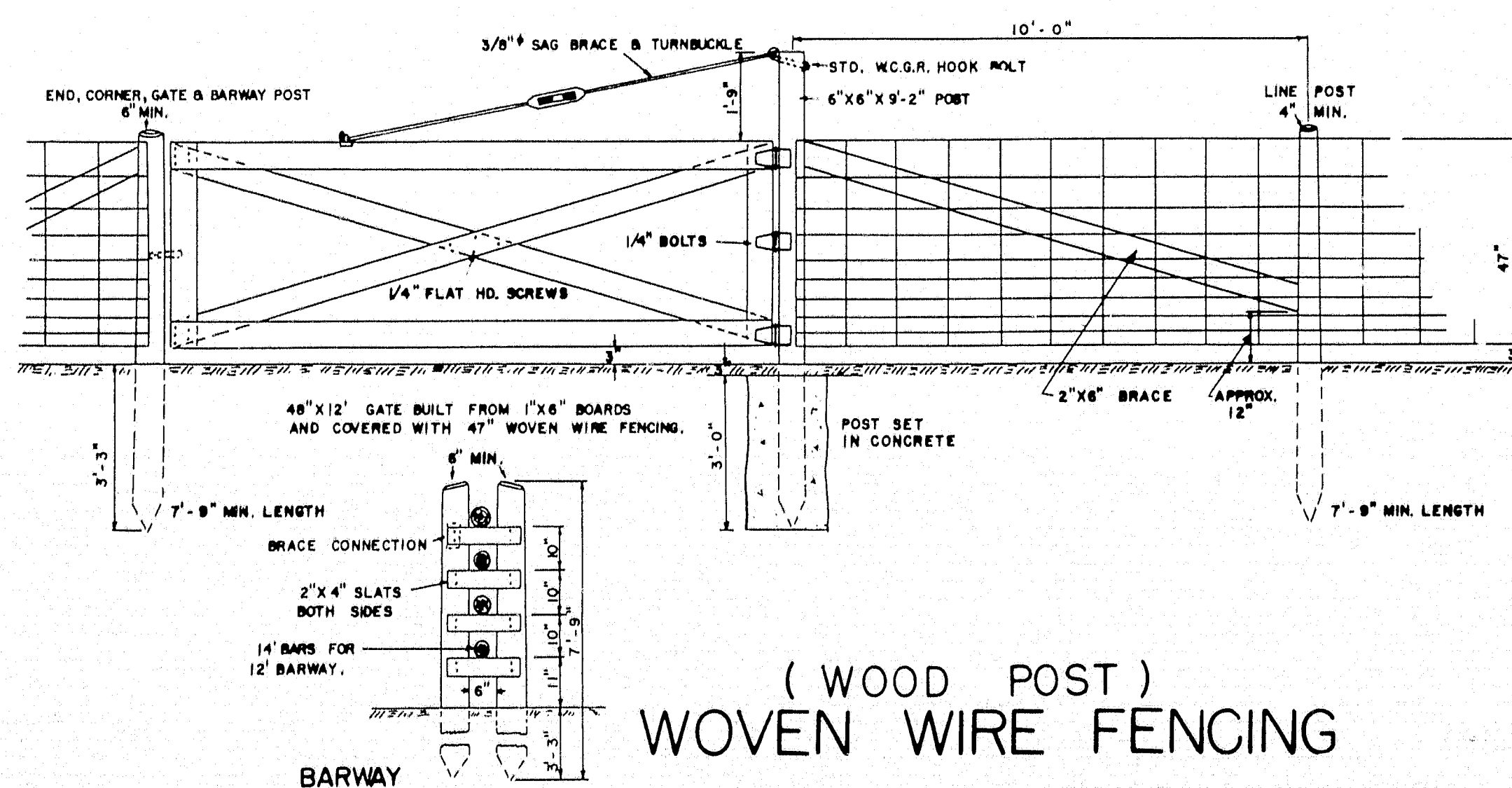


MAINE STATE HIGHWAY COMMISSION  
AUGUSTA, MAINE

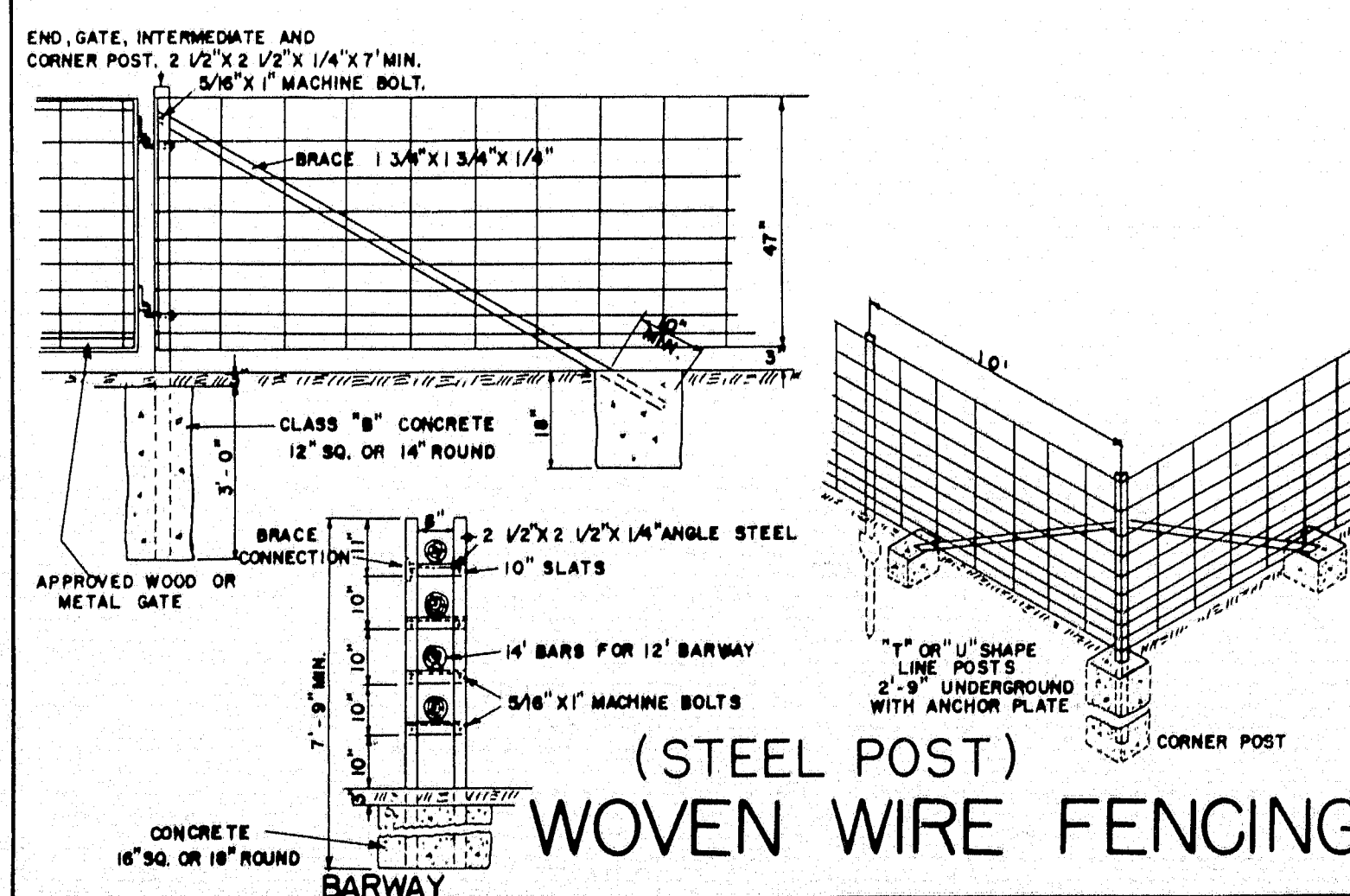
**STANDARD DETAILS**

GUARD RAIL & FITTINGS  
WIRE FENCING, METAL SLUICE  
AND PLANK CURB

SHEET 26A OF 26 APRIL 1961

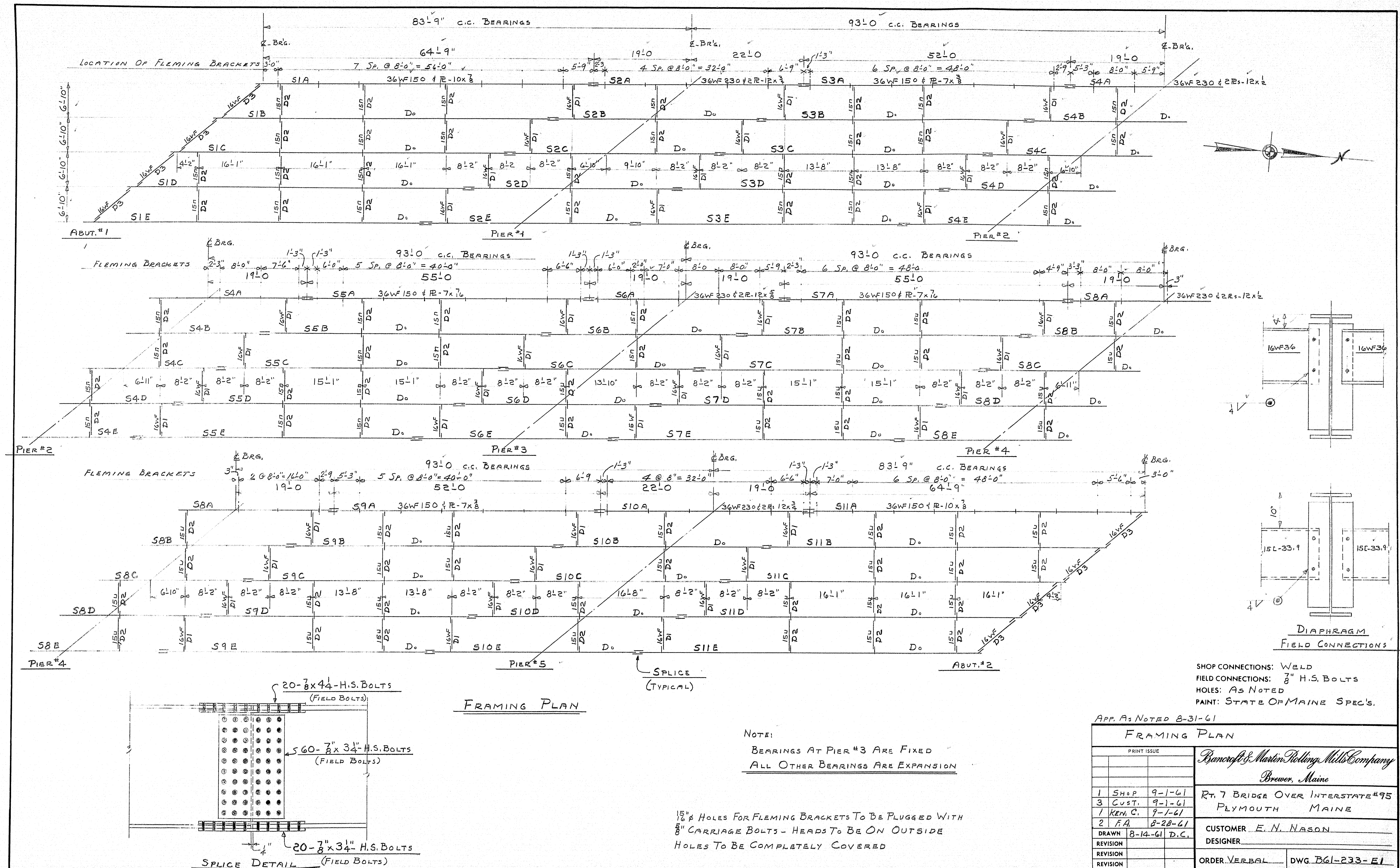


(WOOD POST)  
WOVEN WIRE FENCING



(STEEL POST)  
WOVEN WIRE FENCING





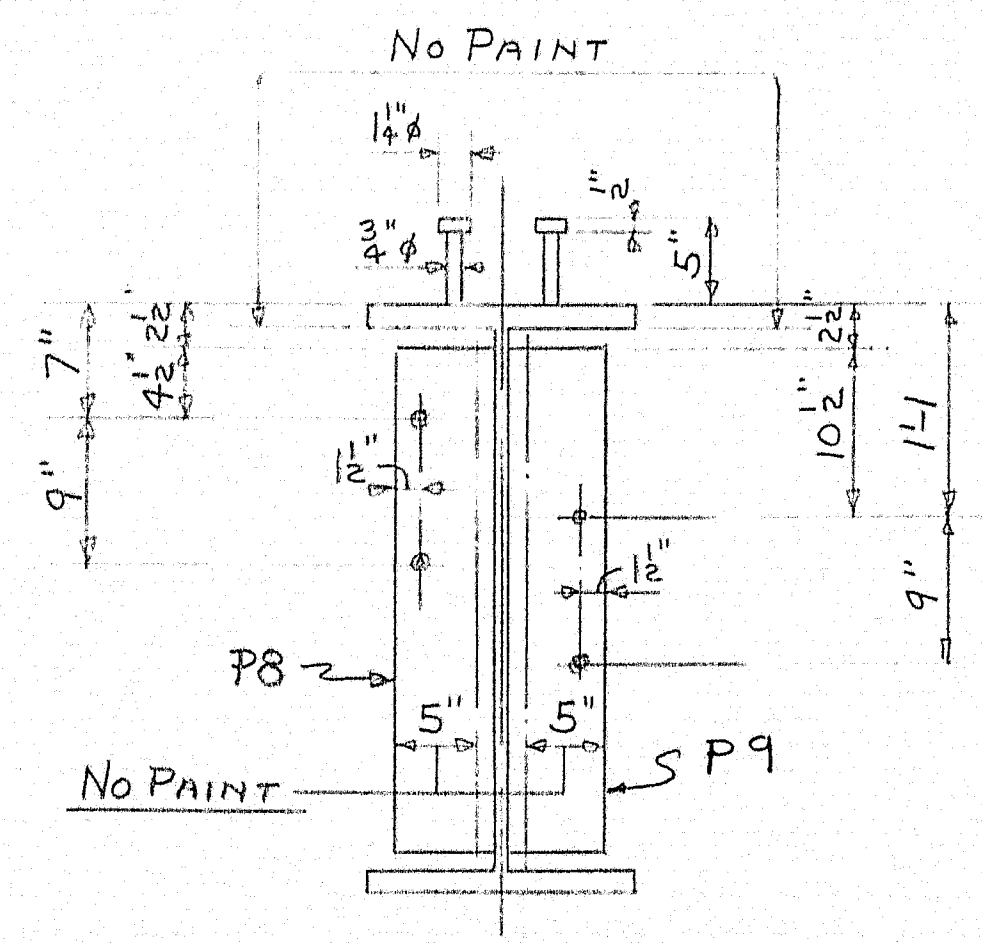
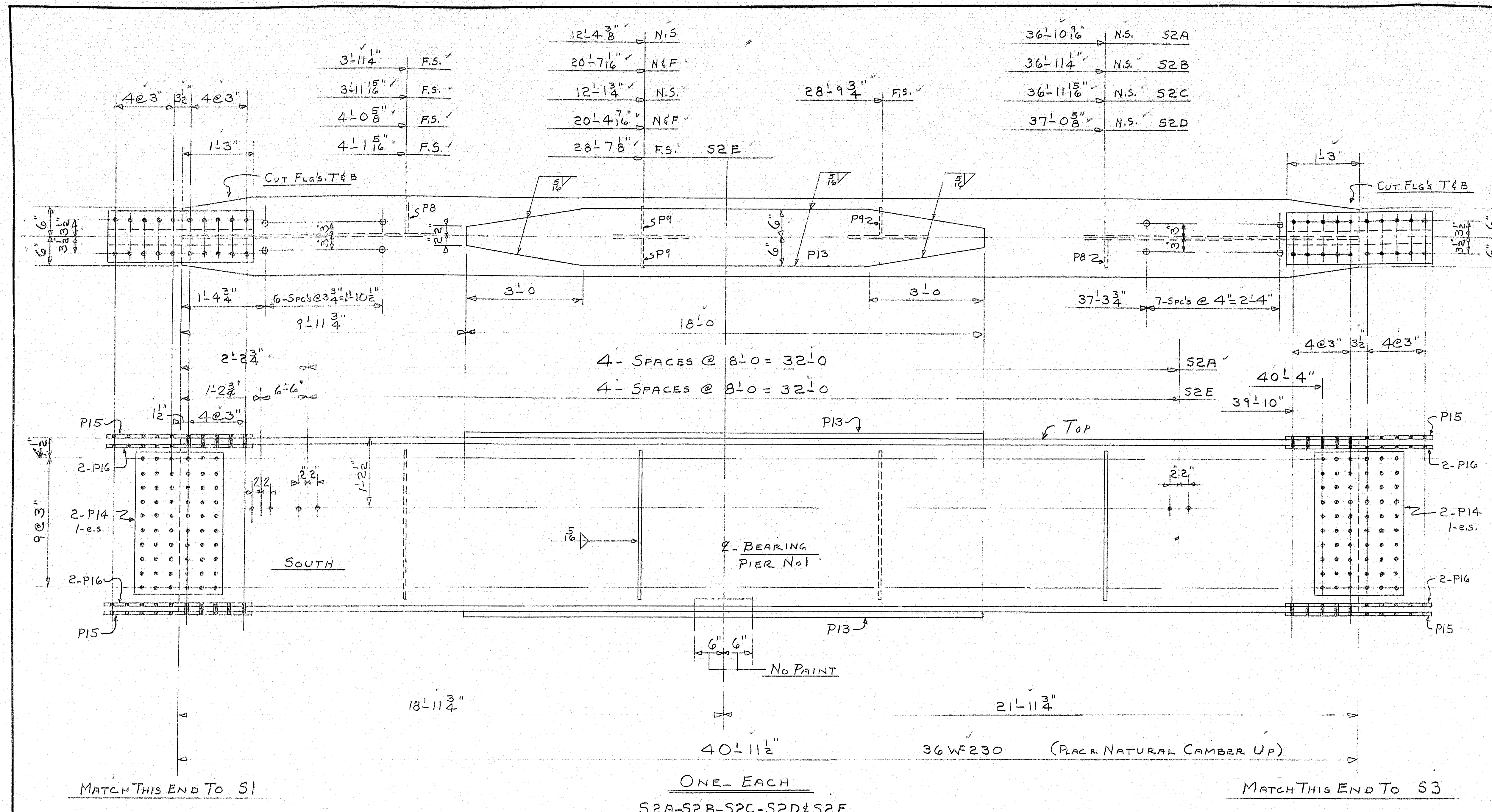












SHIP		BILL OF MATERIAL				DWG. B61-233-S2	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	DEDUCT	REMARKS
S2A	1		36WF230	40 11 1/2	50*		A373
S2B	1		D <sub>o</sub>	40 11 1/2	48*		D <sub>o</sub>
S2C	1		D <sub>o</sub>	40 11 1/2	48*		D <sub>o</sub>
S2D	1		D <sub>o</sub>	40 11 1/2	48*		D <sub>o</sub>
S2E	1		D <sub>o</sub>	40 11 1/2	50*		D <sub>o</sub>
	8	P8	FE-6x3/8	2 7	1 1/2*		A7
	8	P9	D <sub>o</sub>	2 7	1 1/2*		A7
	10	P13	FE-12x3/4	18 0	612*		A373
	20	P14	FE-18x2	2 6			A7
	20	P15	FE-11x2	2 6 1/2			A7
	40	P16	FE-4x1 1/2	2 6 1/2			A7
	150	STUDS	3/4"	0 5			SHEAR CONNECTORS
	1		5/16" WELD	442 0			C. 1.66" PER. FT.
STRUCTURAL STEEL IS ITEM- 702-103							

SHOP CONNECTIONS: WELD  
 FIELD CONNECTIONS: 3/8" H.S. BOLT  
 HOLES: 1/8" Ø  
 PAINT: STATE OF MAINE SPEC'S.

APPROVED AS NOTED 8-31-61

S2- STRINGERS

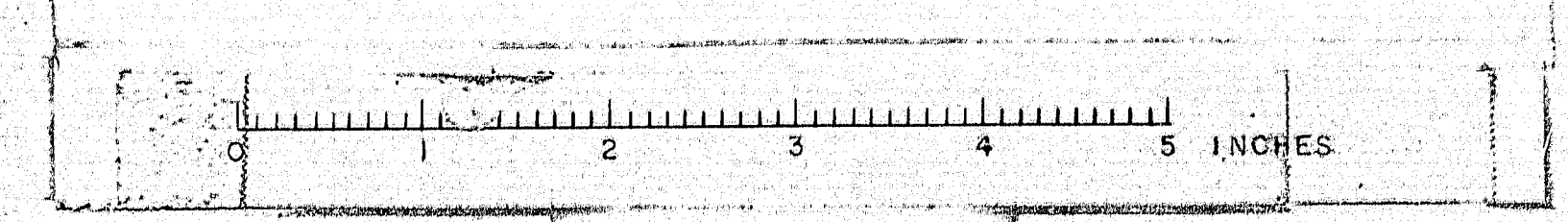
PRINT ISSUE	
4 SHOP	9-1-61
3 CUST	9-1-61
2 F.A.	8-28-61
DRAWN	8-16-61 D.C.
REVISION	
REVISION	
REVISION	

*Bancroft & Martin Rolling Mills Company*  
 Brewer, Maine

RT. 7 BRIDGE OVER INTERSTATE #95  
 PLYMOUTH MAINE

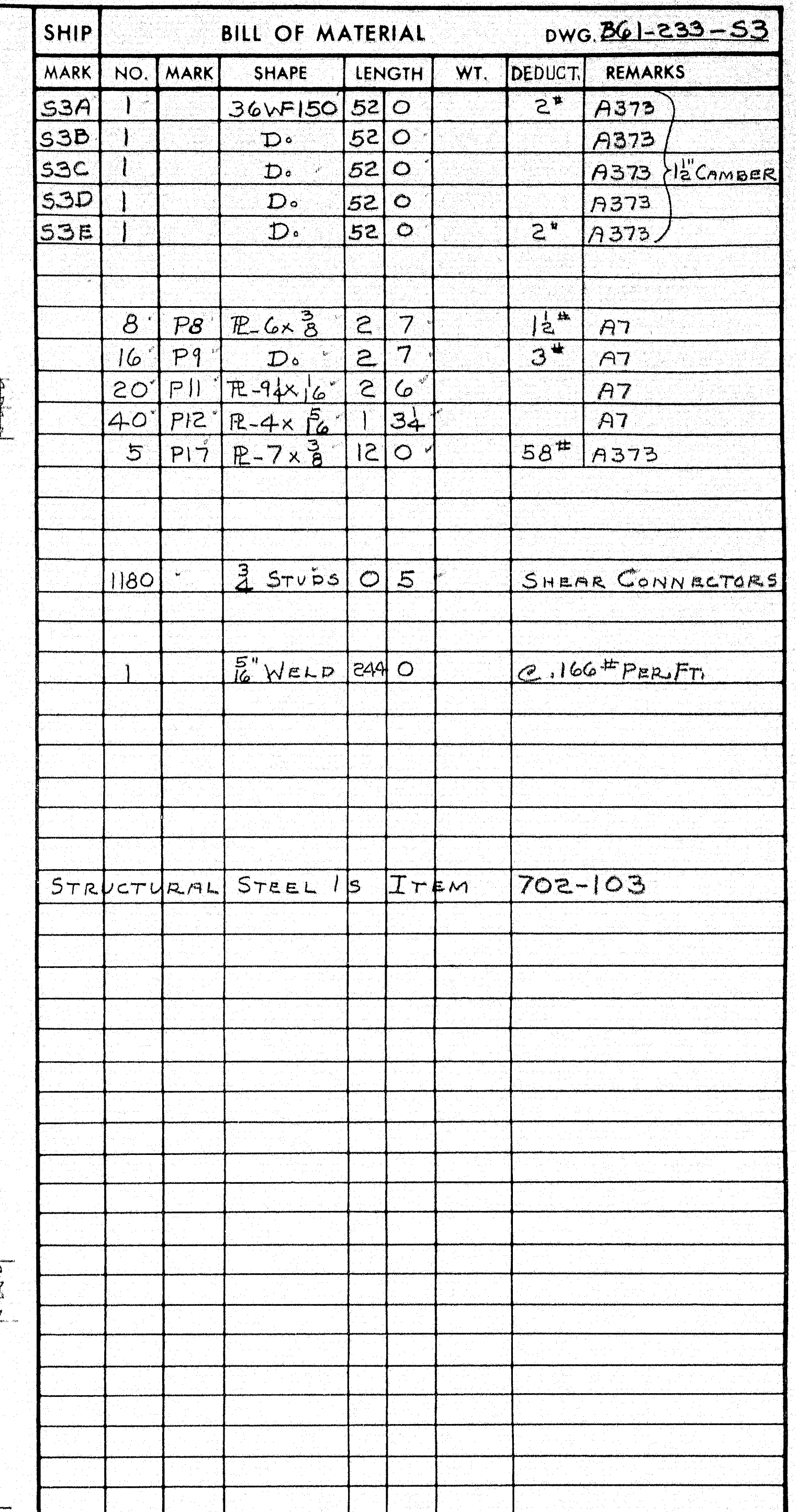
CUSTOMER E.N. NASON  
 DESIGNER STATE HIGHWAY COMM.

ORDER VERBAL DWG. B61-233-S2



83-127 D





SHOP CONNECTIONS: WELD  
FIELD CONNECTIONS: 3" H.S. BOLTS  
HOLES: 1 5/8" Ø  
PAINT: STATE OF MAINE SPEC'S.

APP'D As NOTED 8-31-61

53 - STRINGERS.

PRINT ISSUE

*Ramcraft & Martin Rolling Mills Company*  
*Brewer, Maine*

RT. 7 BRIDGE OVER INTERSTATE # 95  
PLYMOUTH MAINE

CUSTOMER E. N. NASON  
DESIGNER STATE HIGHWAY COMM.

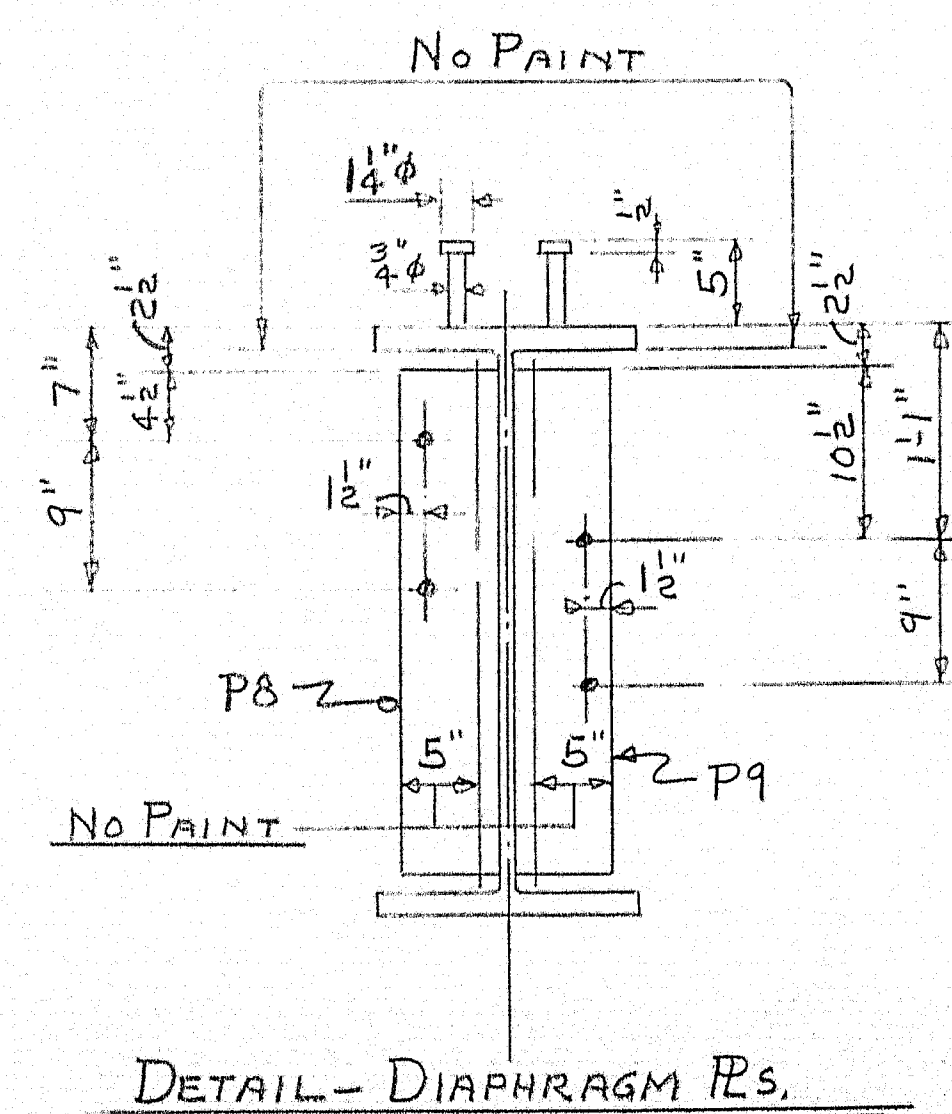
ORDER VERBAL	DWG. B61-233-53
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DRAWN	8-16-61	D.L.
REVISION		
REVISION		
REVISION		

ORDER VERBAL	DWG. B61-233-53
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03-127 E



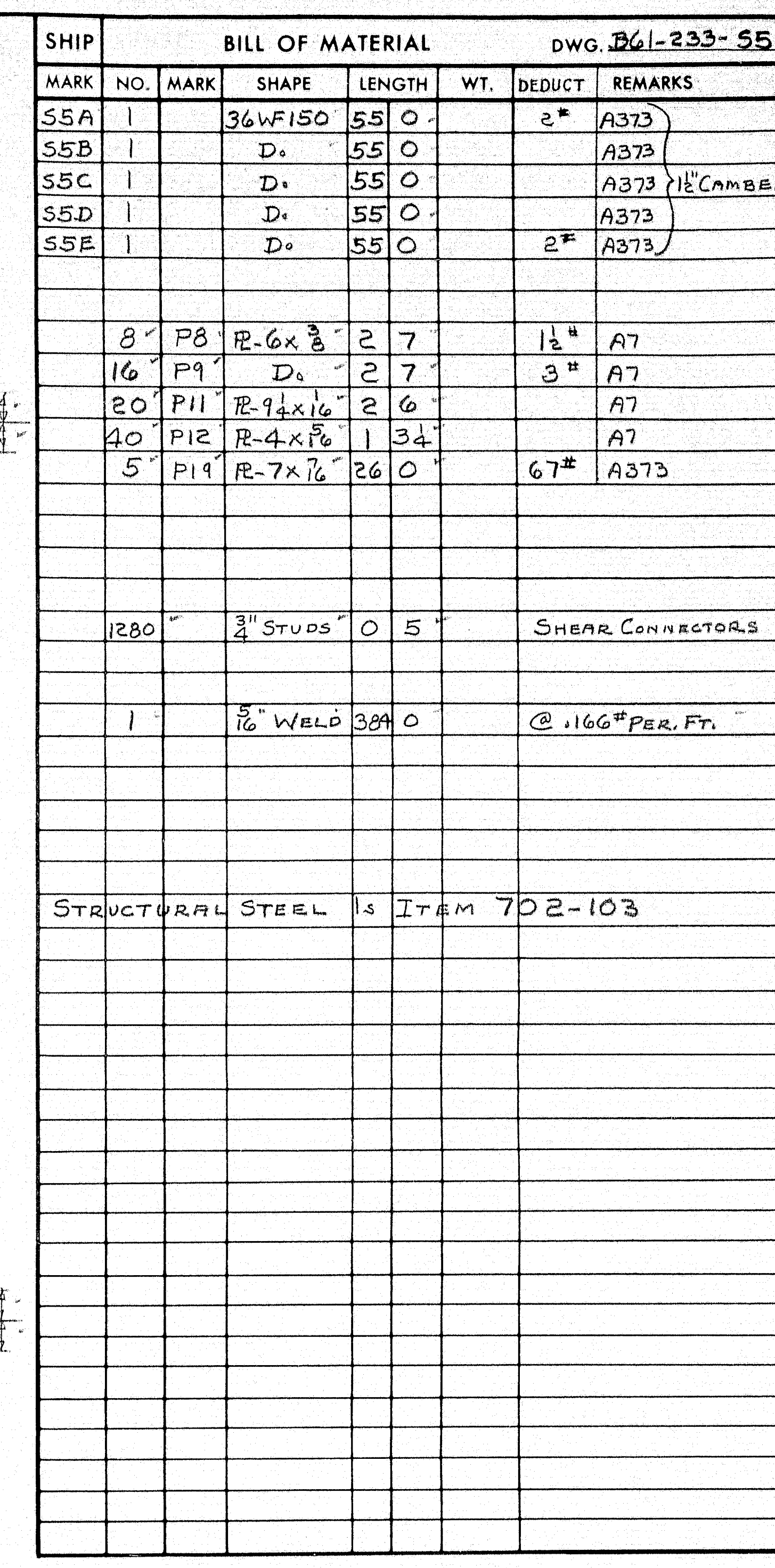


SHOP CONNECTIONS: WELD  
FIELD CONNECTIONS: 3/8" H.S. BOLTS  
HOLES: 1 5/16"  $\phi$   
PAINT: STATE OF MAINE SPEC'S.

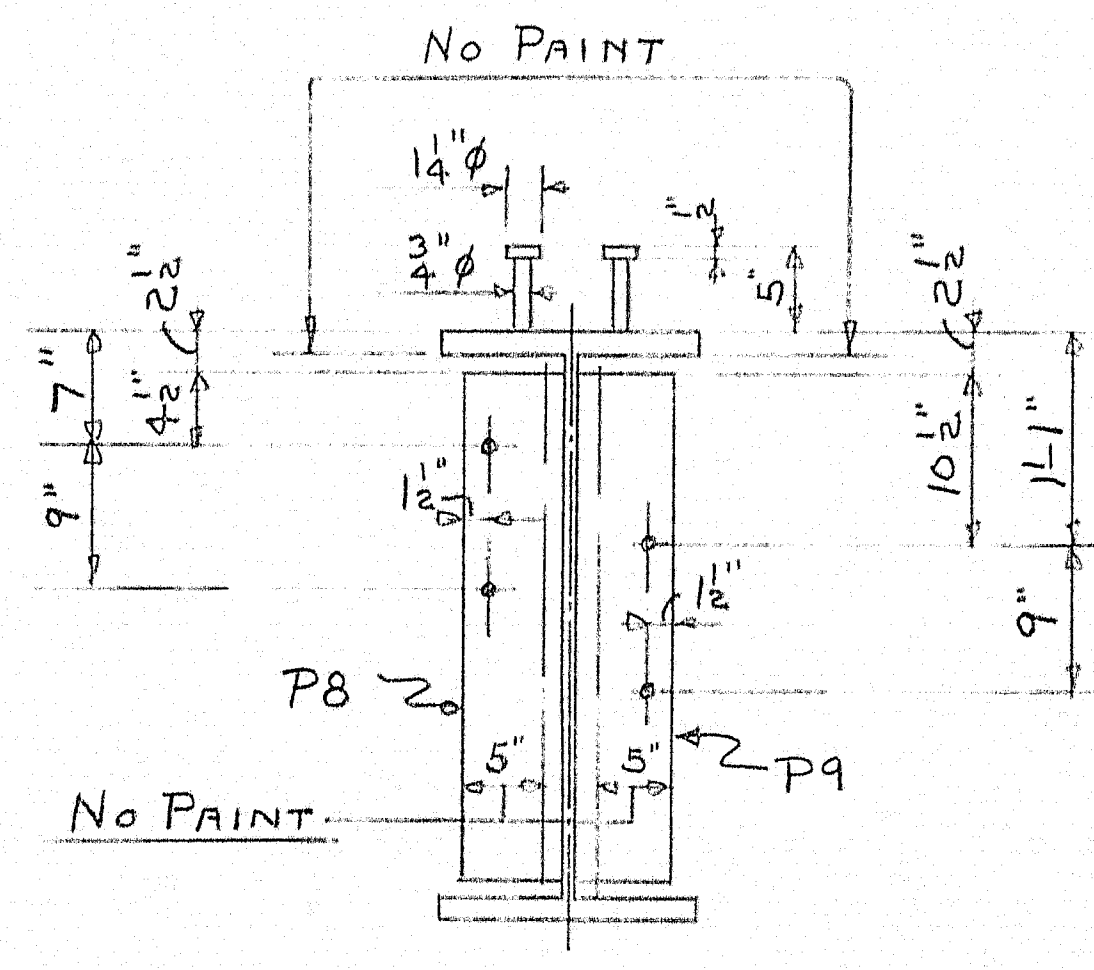
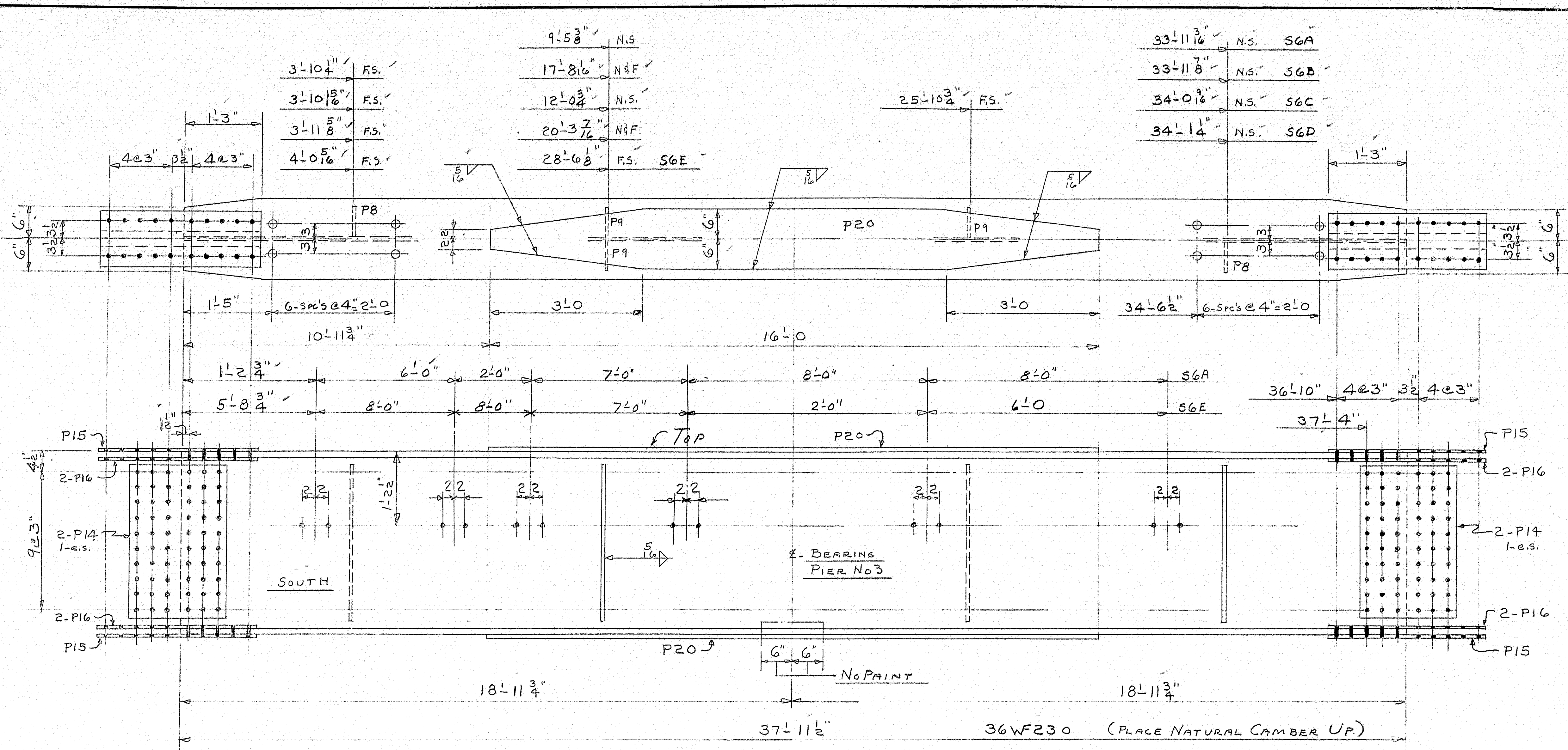
S4 - STRINGERS

PRINT ISSUE			<i>Bancroft &amp; Martin Rolling Mills Company</i> <i>Brewer, Maine</i>	
4	SHOP	9-1-61	RT. 7 BRIDGE OVER INTERSTATE #95	
3	CUST.	9-1-61	PLYMOUTH MAINE	
2	F.A.	8-28-61	CUSTOMER: E. N. NASON	
DRAWN 8-17-61 D.C.			DESIGNER: STATE HIGHWAY COMM.	
REVISION			ORDER VERBAL	DWG. B61-233-S4
REVISION				
REVISION				









DETAIL - DIAPHRAGM RIBS.

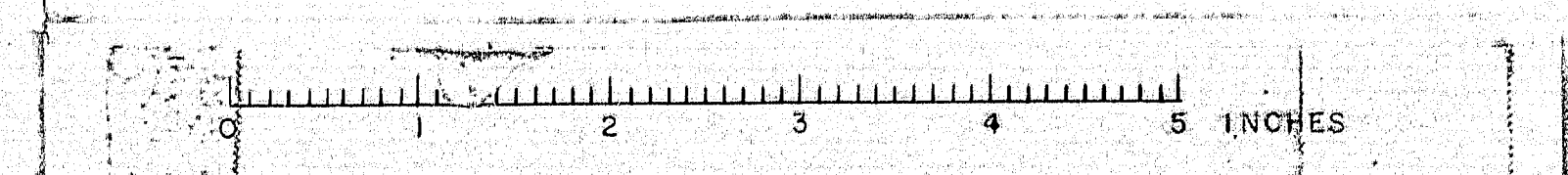
SHIP		BILL OF MATERIAL				DWG. B61-233-S6	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	DEDUCT	REMARKS
S6A	1		36WF230	37'11 1/2"		50*	A373
S6B	1		D.	37'11 1/2"		48*	A373
S6C	1		D.	37'11 1/2"		48*	A373
S6D	1		D.	37'11 1/2"		48*	A373
S6E	1		D.	37'11 1/2"		48*	A373
	8	P8	R-6x3/8	2'7"		1 1/2"	A7
	8	P9	D.	2'7"		1 1/2"	A7
	20	P14	R-18 1/2 x 1/2	2'6"			A7
	20	P15	R-11 x 1/2	2'6"			A7
	40	P16	R-4 x 1/2	2'6"			A7
	10	P20	R-12 x 3/8	16'0"		490	A373
	140		3/4" STUDS	0'5"			SHEAR CONNECTORS
	1		5" WELD	403'0"			@ .166# PER. FT.
		STRUCTURAL STEEL IS ITEM 702-103					

SHOP CONNECTIONS: WELD  
 FIELD CONNECTIONS: 3/8" H.S. BOLTS  
 HOLES: 1/8" φ  
 PAINT: STATE OF MAINE SPEC'S.

APPROVED 8-31-61

S6 - STRINGERS			
PRINT ISSUE		Bancroft & Martin Rolling Mills Company Brewer, Maine	
4 SHOP 9-1-61		Rt. 7 BRIDGE OVER INTERSTATE # 95 PLYMOUTH MAINE	
3 CUST. 9-1-61		CUSTOMER E. N. NASON	
2 F.A. 8-28-61		DESIGNER STATE HIGHWAY COMM.	
DRAWN 8-17-61 D.C.		ORDER VERBAL DWG. B61-233-S6	
REVISION			
REVISION			
REVISION			

03-127 H



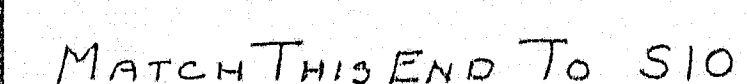












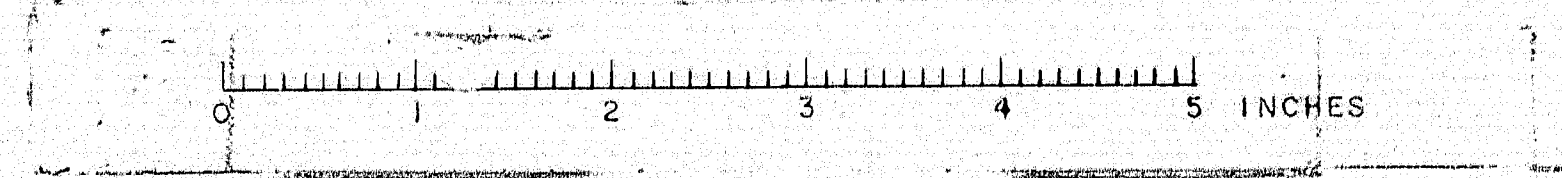
ONE-EACH  
S9A-S9B-S9C-S9D & S9E

MATCH THIS END TO S8

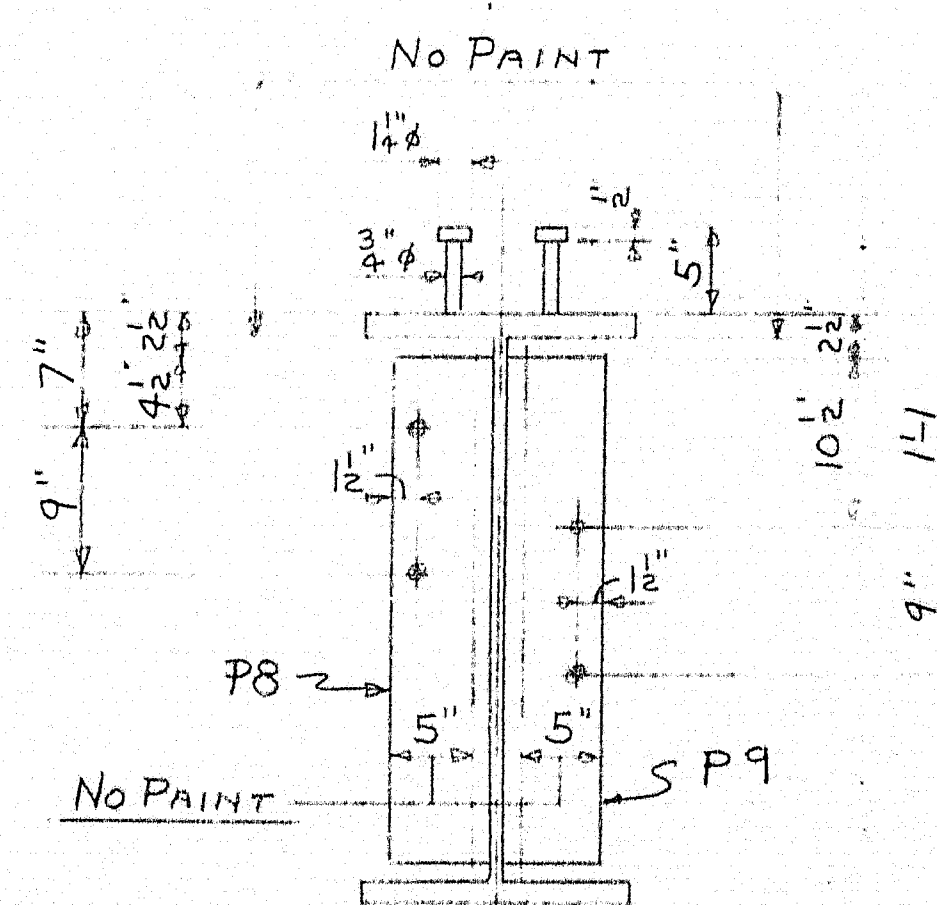
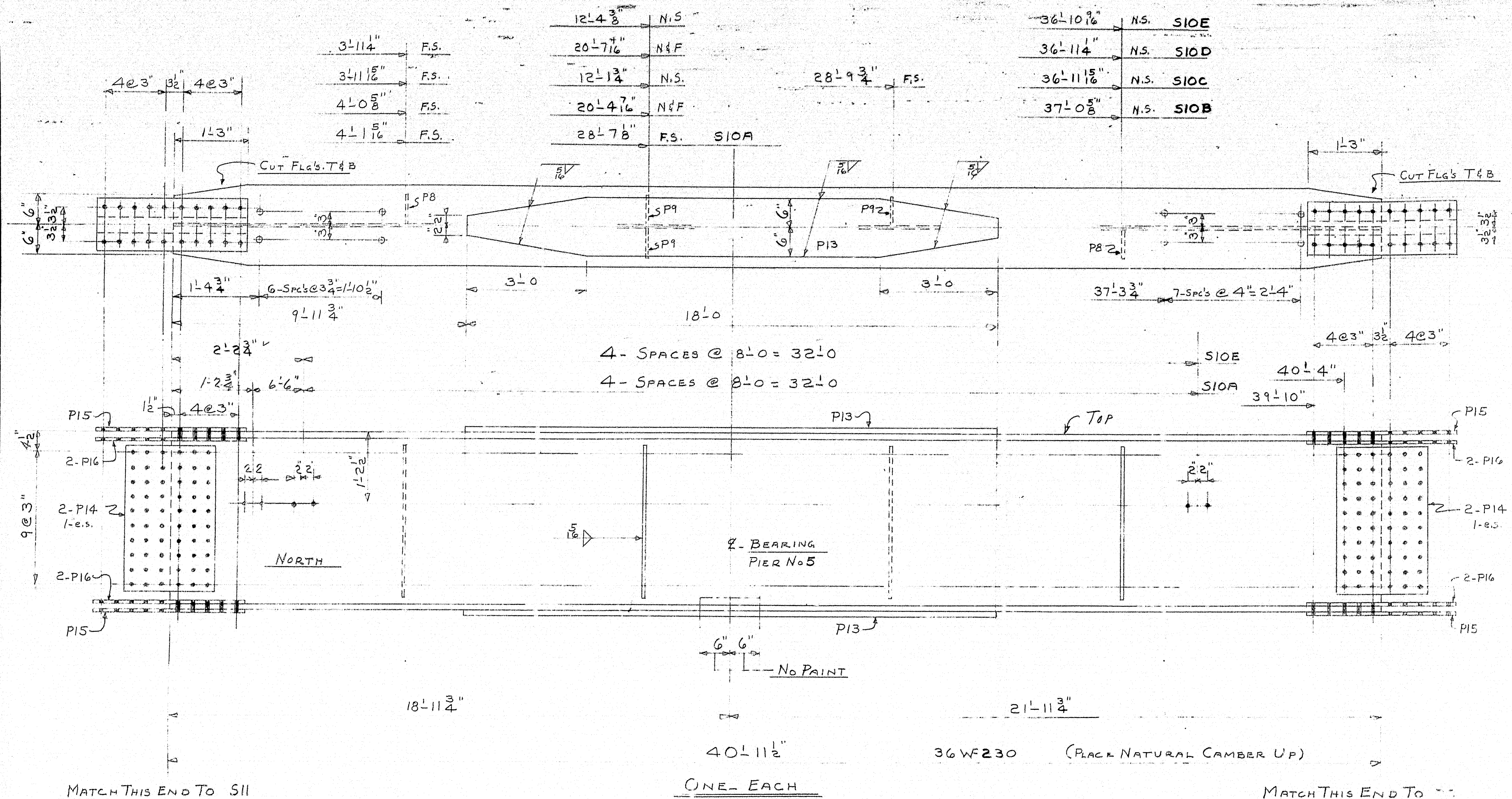
SHOP CONNECTIONS: WELD  
FIELD CONNECTIONS: 7" H.S. BOLTS  
HOLES: 1 5/16"  $\phi$   
PAINT: STATE OF MAINE SPEC'S.

APPR. AS NOTED 8-31-6

59 - STRINGS		Blawie & Harton, Helling, Hilt & Company Brewer, Maine Rt. 7 BRIDGE OVER INTERSTATE #95 PLYMOUTH MAINE	
4. Shop	9-1-61	CUSTOMER E. N. NASON DESIGNER STATE HIGHWAY COMM.	
3. Cust.	9-1-61		
2. F.A.	8-28-61		
DRAWN	8-16-61 D.C.	ORDER VERBAL DWG. E61-233-59	
REVISION			
REVISION			
REVISION			







SHOP CONNECTIONS: WELD  
FIELD CONNECTIONS:  $\frac{7}{8}$ " H.S. BOLTS  
HOLES:  $\frac{15}{16}$ "  $\phi$   
PAINT: STATE OF MAINE SPEC'S

APP'D AS NOTED 8-3-6

SIO - STRINGERS

Rancroft & Martin Rolling Mills Company  
Brewer, Maine

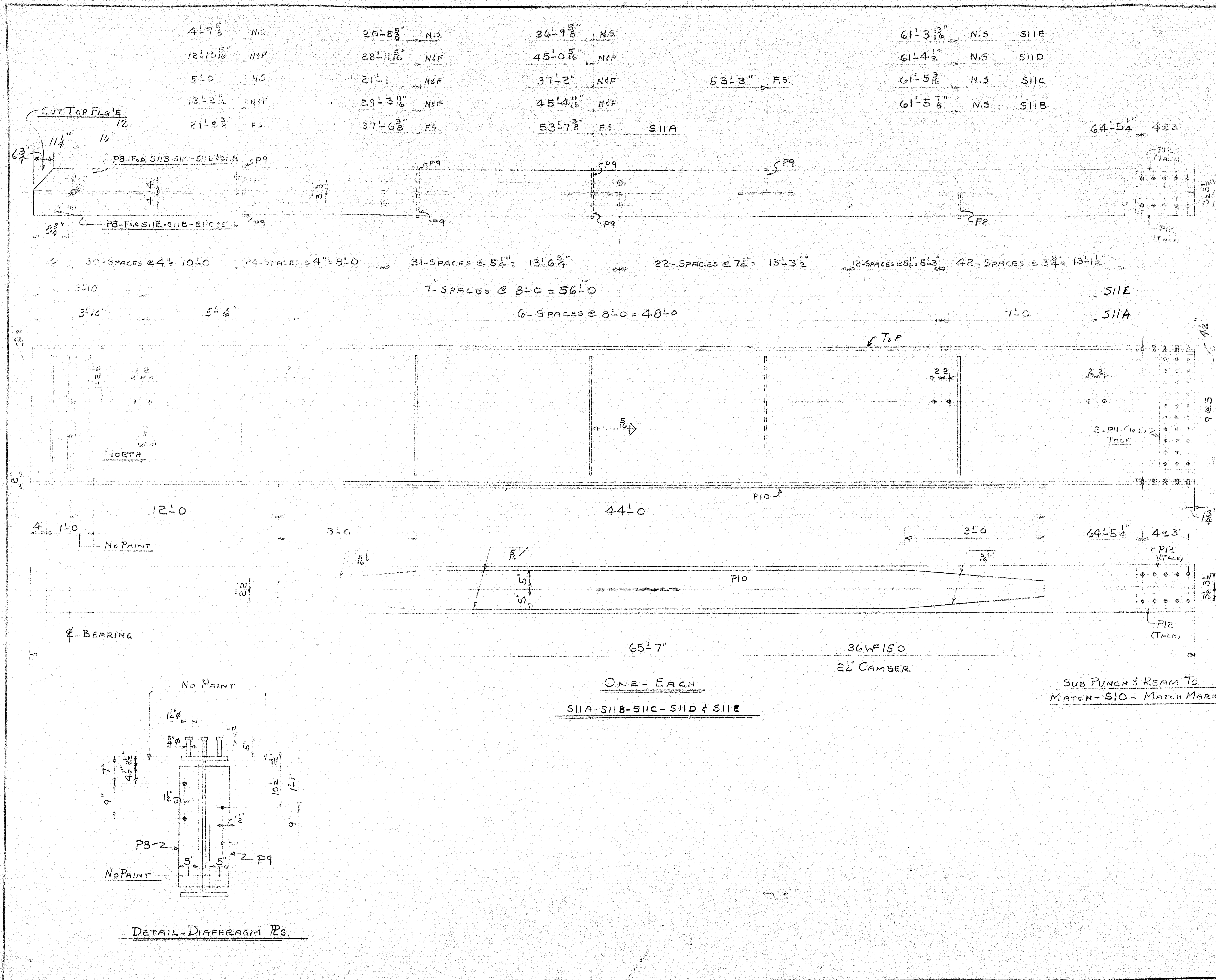
RT. 7 BRIDGE OVER INTERSTATE #95  
PLYMOUTH MAINE

CUSTOMER E. N. NASON  
DESIGNER STATE HIGHWAY COMM.

ORDER VERBAL	DWG. B61-233-S10
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83-127 L





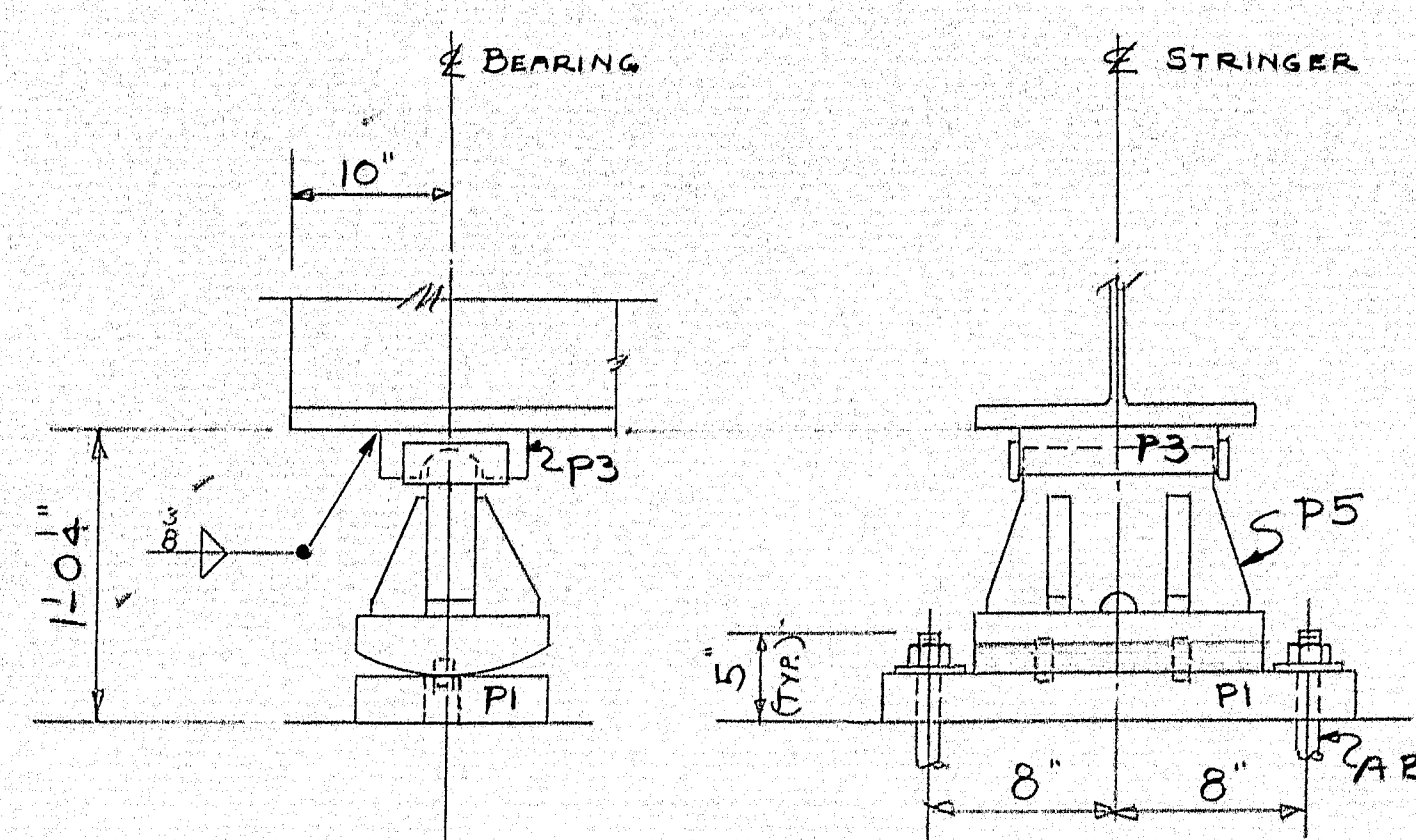
SHIP		BILL OF MATERIAL				DWG. B61-233-S11	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	DEDUCT	REMARKS
S11A	1		36WF150	65' 7"		12#	A373
S11B	1		D°	65' 7"		10#	A373
S11C	1		D°	65' 7"		10#	A373
S11D	1		D°	65' 7"		10#	A373
S11E	1		D°	65' 7"		12#	A373
	12	P8	R-6x3	2' 7"		2#	A7
	24	P9	D°	2' 7"		3 1/2#	A7
	5	P10	R-10x3	44' 0"		268#	A373
	10	P11	R-9x16	2' 6"			A7
	20	P12	R-4x16	1' 3 1/4"			A7
	1775		4 STUDS	0' 5"			SHEAR CONNECTORS.
	1		5/16" WELD	626' 0"			0.166# PER. FT.
			STRUCTURAL STEEL IS ITEM				702-103

SHOP CONNECTIONS: WELD  
 FIELD CONNECTIONS: 3/8" H.S. BOLTS  
 HOLES: 1 1/8"  
 PAINT: STATE OF MAINE SPEC'S.

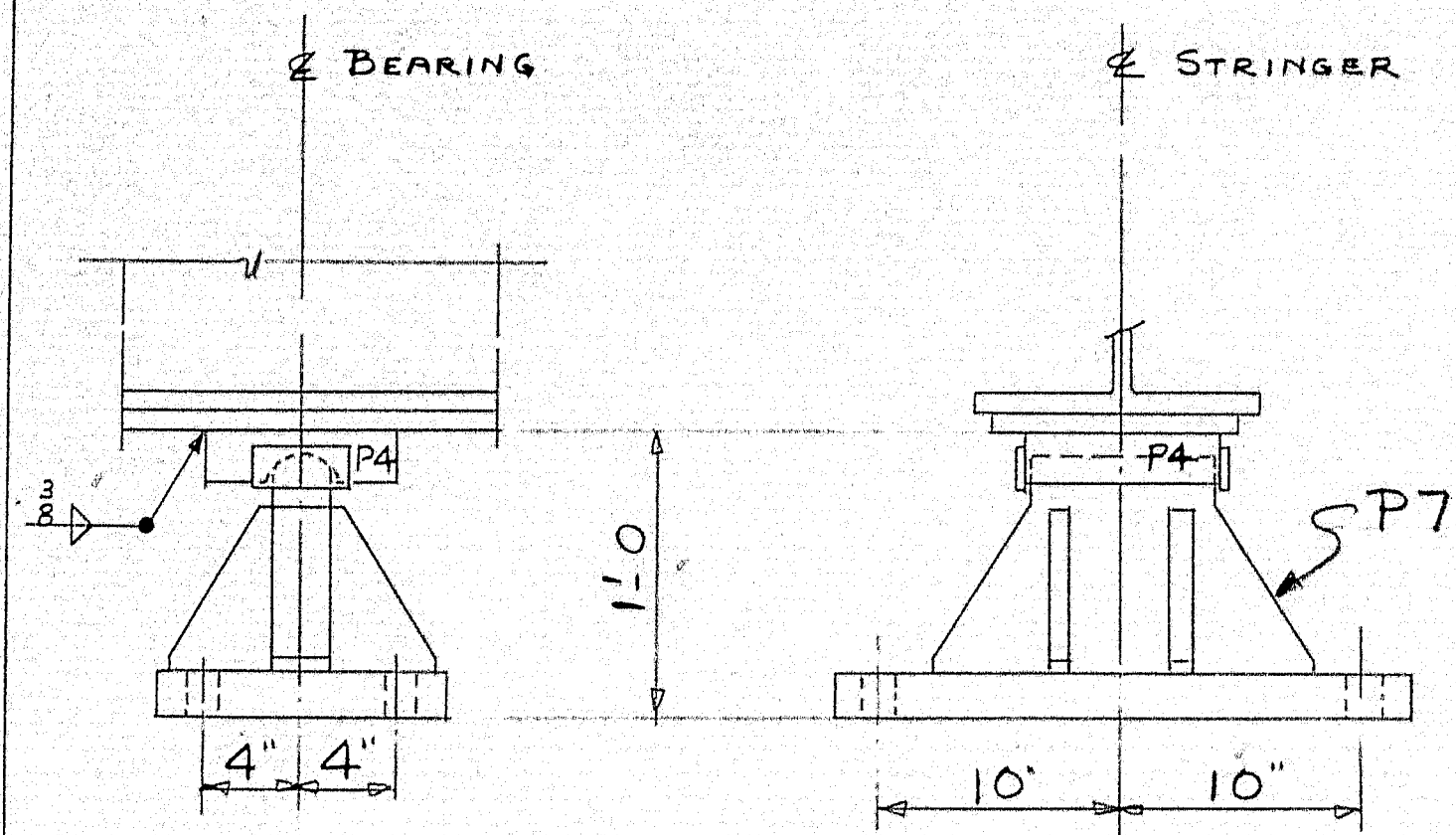
APP'D AS NOTED				S11-STRINGERS	
				PRINTED	
				Branch & Marine Poling Mfg Company	
				Brewer, Maine	
				RT. 7 BRIDGE OVER INTERSTATE #95	
				PLYMOUTH MAINE	
				CUSTOMER E. N. NASON	
				DESIGNER STATE HIGHWAY COMM.	
				ORDER VERBAL	
				DWG. B61-233-S11	

83-127 M

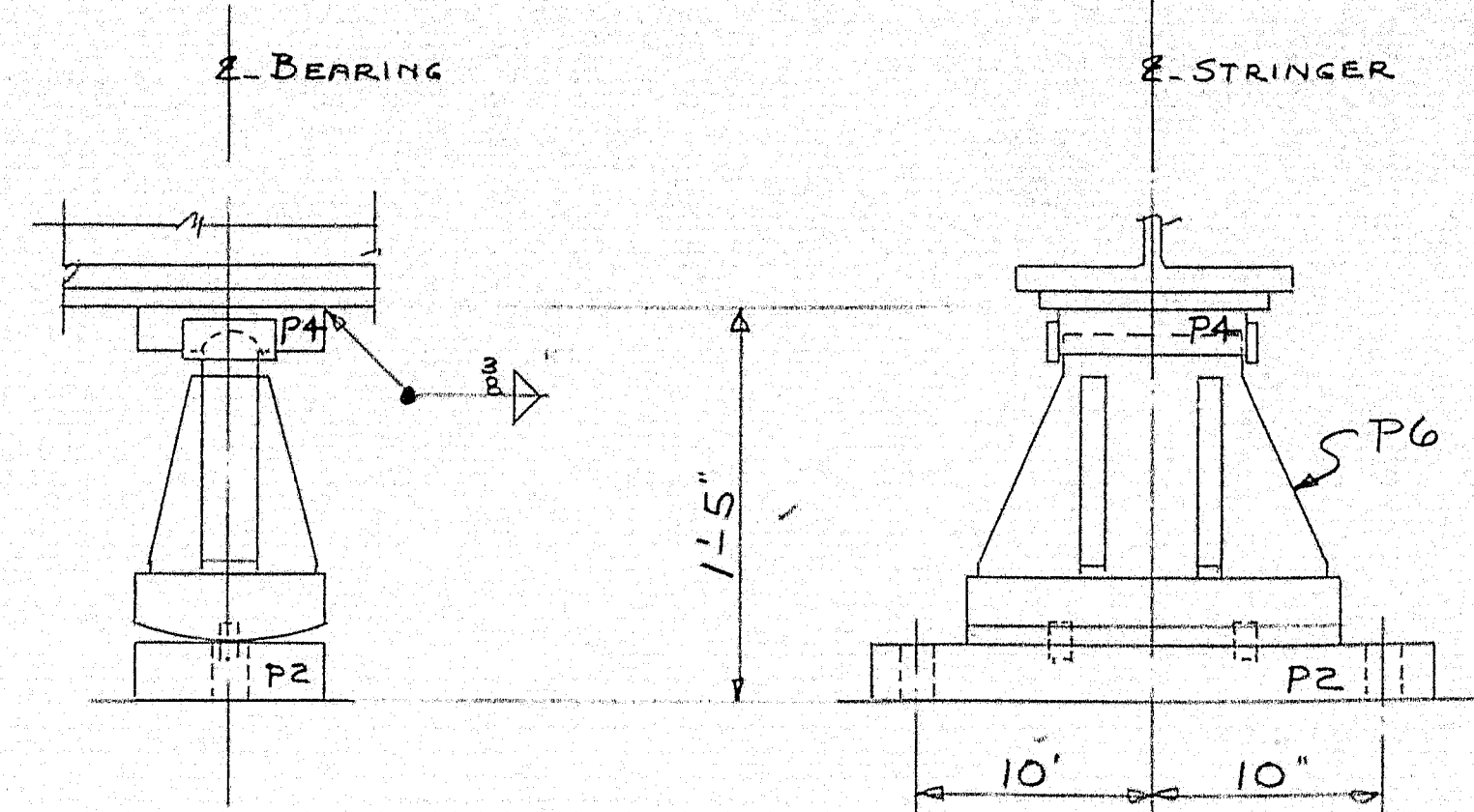




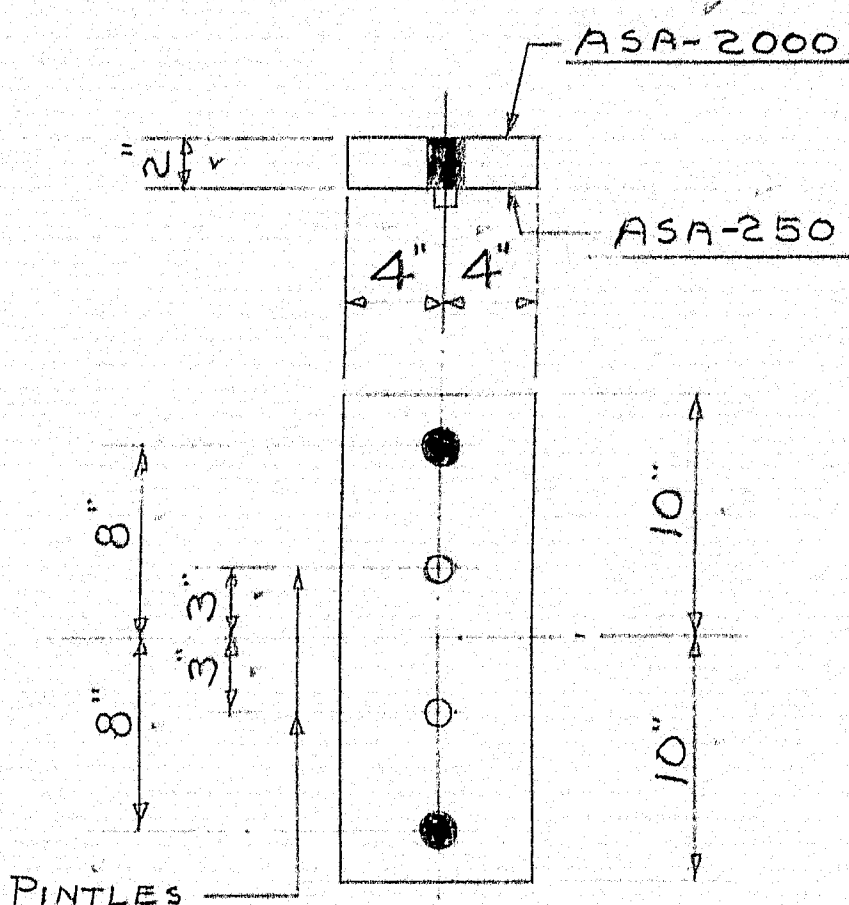
EXPANSION BEARINGS  
ABUT. #1 & #2  
10 REQ'D



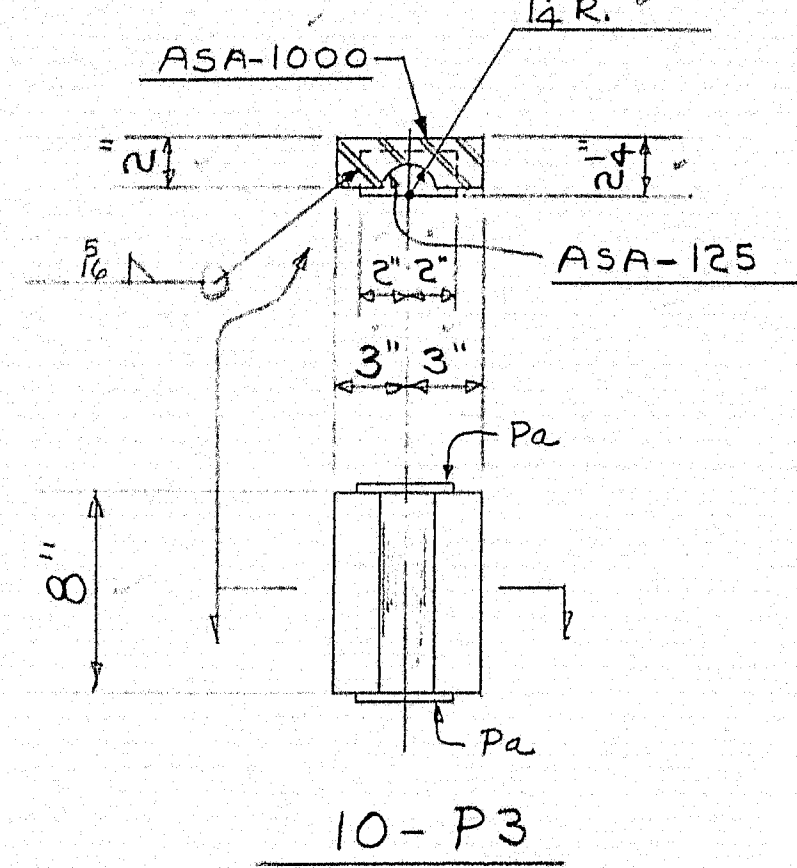
FIXED BEARINGS  
PIER #3  
5 REQ'D



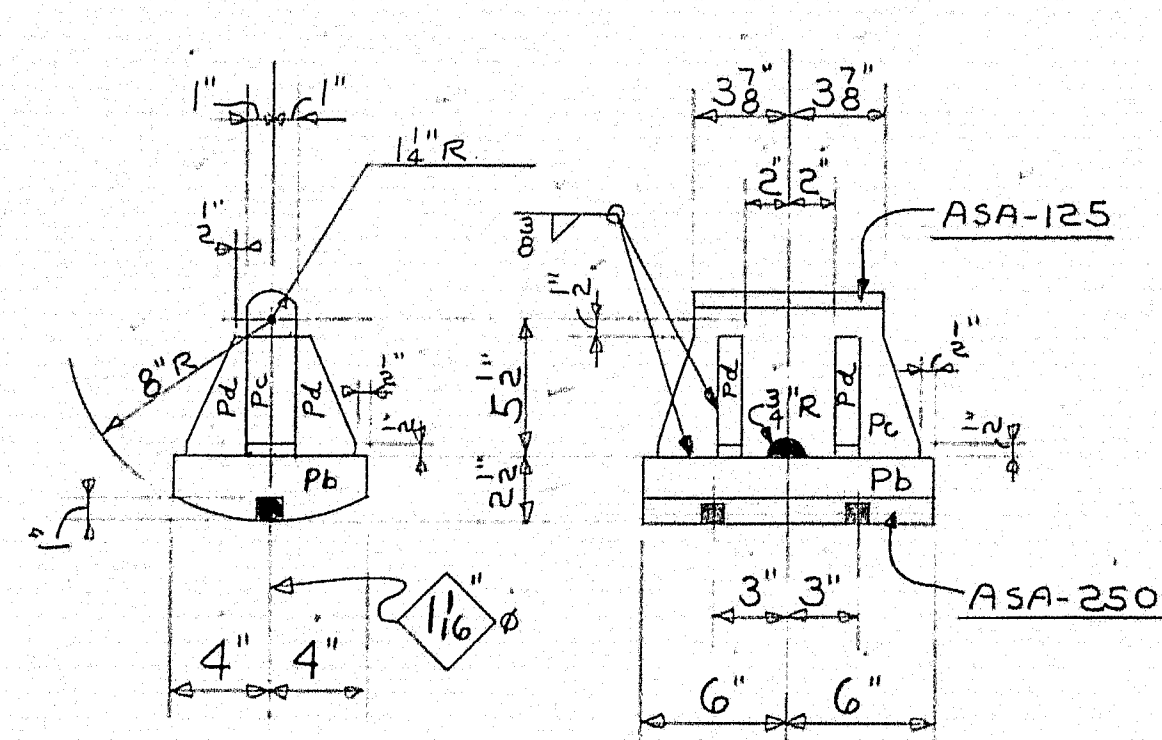
EXPANSION BEARINGS  
PIERS #1-2-4-5  
20 REQ'D



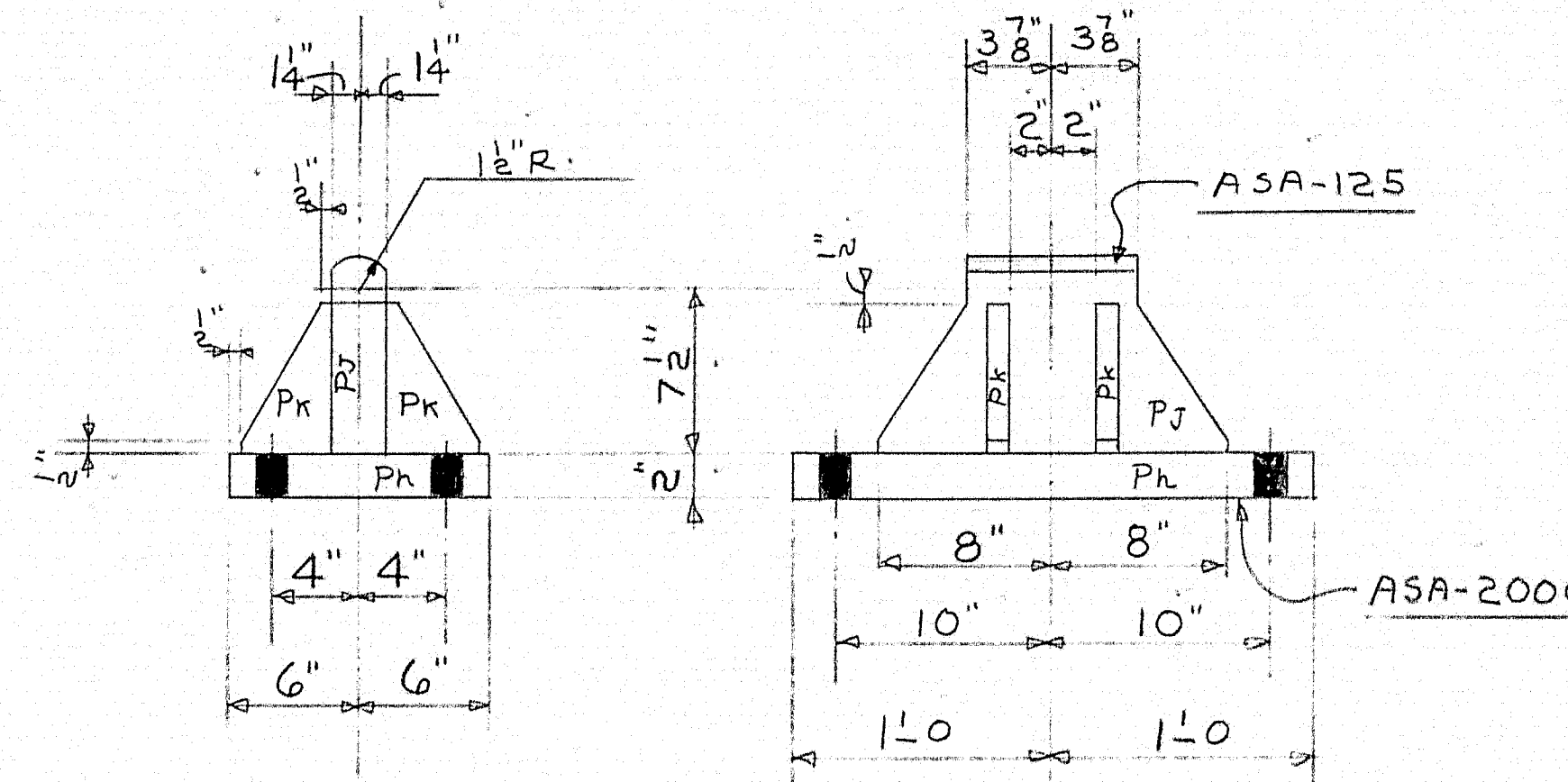
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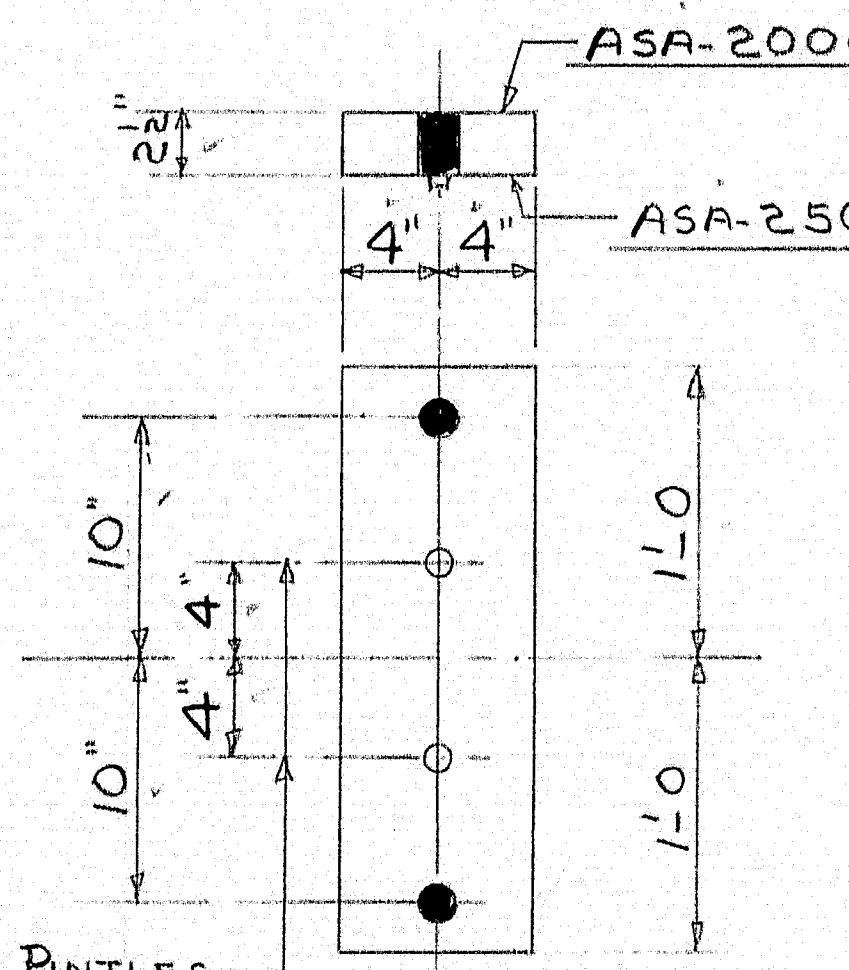
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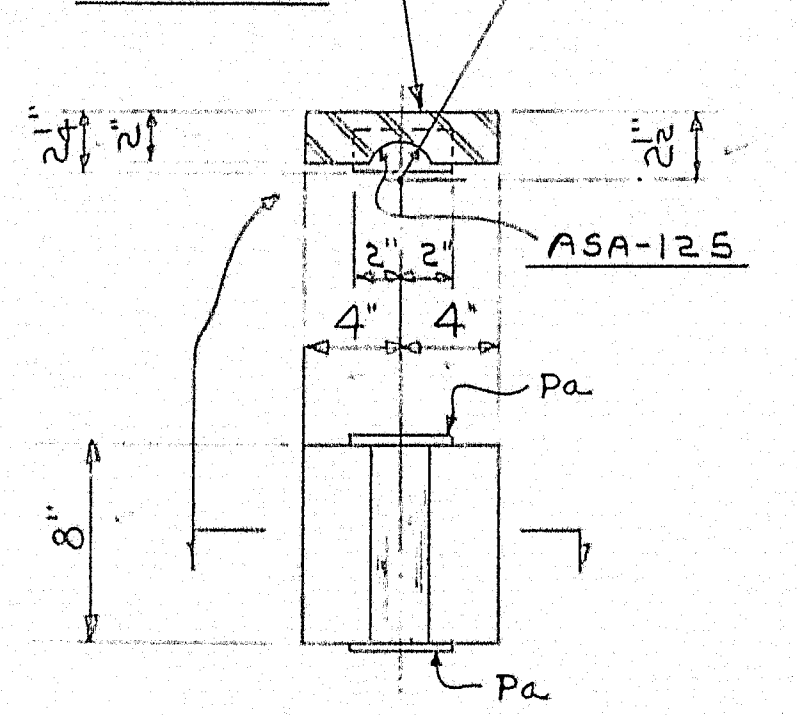
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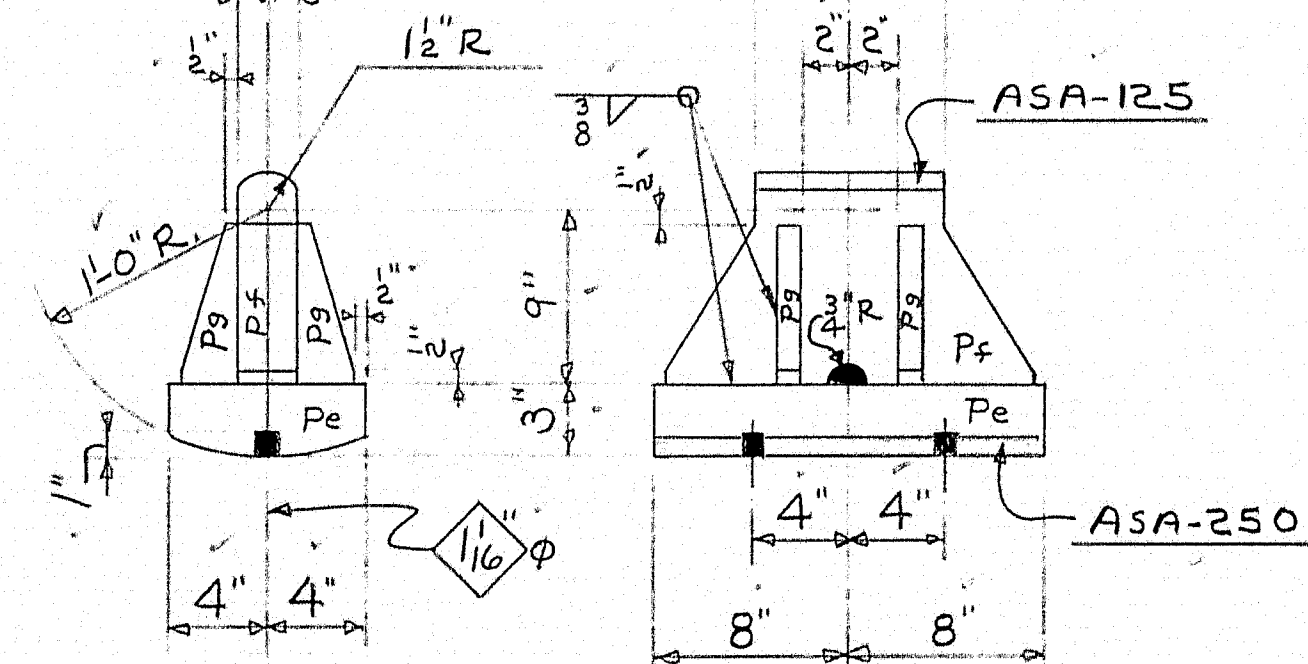
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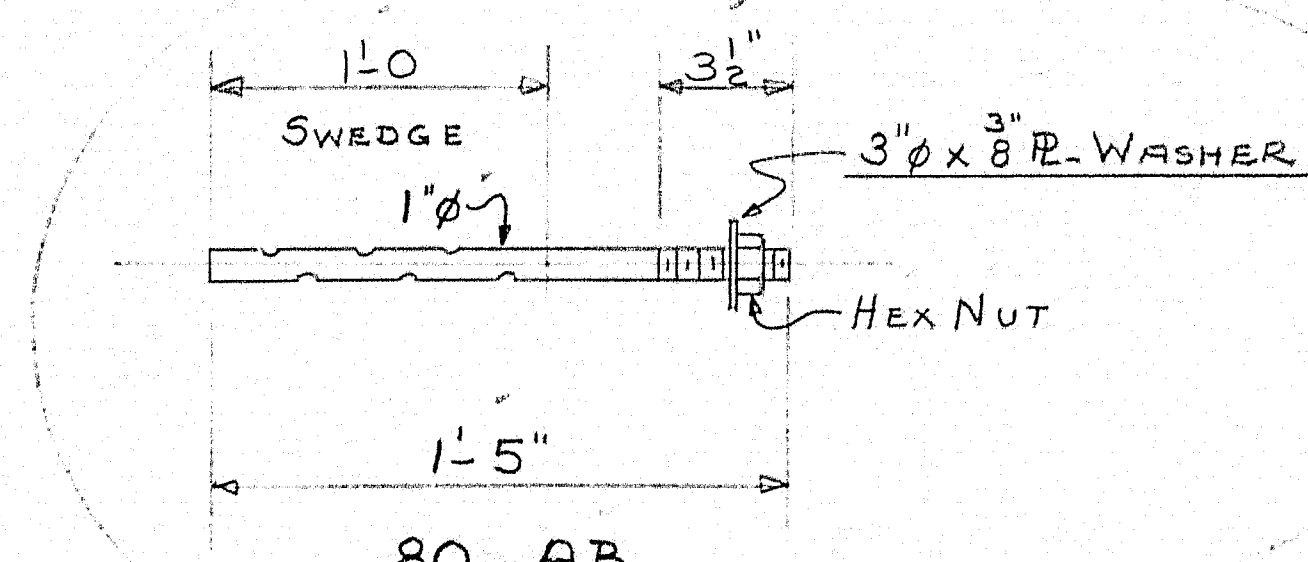
20-P2



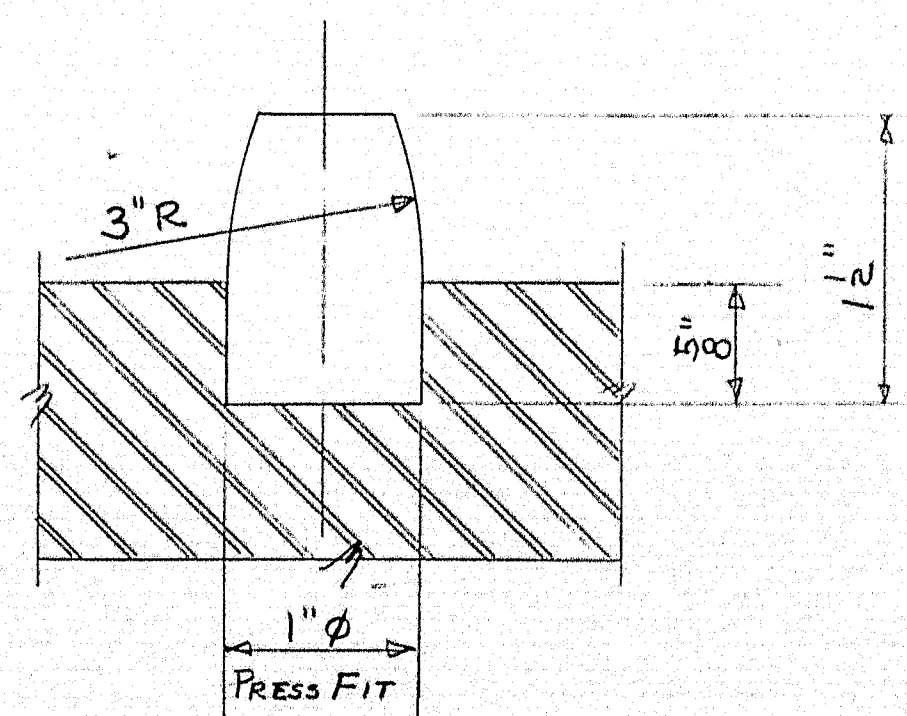
25-P4



20-P6



80-AB



PINLE DETAIL

SHIP		BILL OF MATERIAL				DWG. B61-233-S12
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
P1	10		R-8x2	1 8		SCALE WT.
P2	20		R-8x2	2 0		
P3	10		R-6x2	0 8		
P4	25		R-8x2	0 8		
P5	10		ASSEMBLY			
P6	20		D.			
P7	5		D.			
	70	Pa	R-1 1/2 x 3/4	0 4		
	10	Pb	R-8 x 2 1/2	1 0		
	10	Pc	R-6 1/2 x 2	0 11		
	40	Pd	R-2 1/2 x 1	0 5		
	80	Pg	R-2 1/2 x 1	0 8 1/2		
	20	Ph	R-4 1/2 x 1	0 7		
	20	Pe	R-8 x 3	1 4		
	20	Pf	R-10 1/2 x 2 1/2	1 3		
	5	Pj	R-9 x 2 1/2	1 4		
	5	Ph	R-12 x 2	2 0		
	60	PINTLE	1" R.D.	0 1 1/2		
AB	80		D.	1 5		
	80		R-3 x 3/8	0 3		3" WASHERS
	80		1" HEX NUTS			ORDERED 8/28/61
STEEL IS A.S.T.M. DESIGNATION - A7 OR A373						
STRUCT STEEL IS ITEM 702-103						

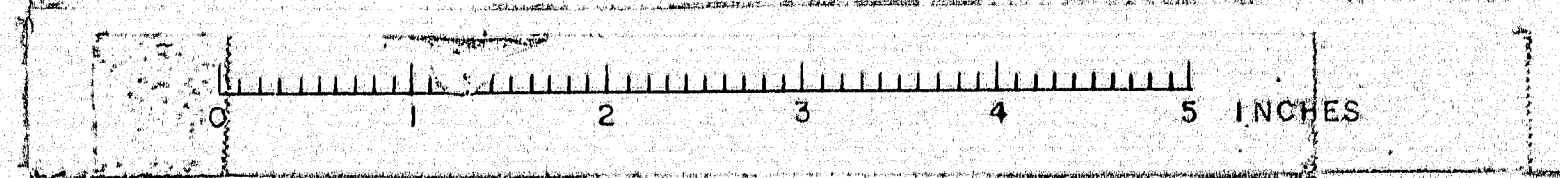
ORDERED FROM  
PORTLAND 8/28/61

SHOP CONNECTIONS: WELD  
FIELD CONNECTIONS: D.  
HOLES: 1/8" UNLESS NOTED  
PAINT: STATE OF MAINE SPEC'S.

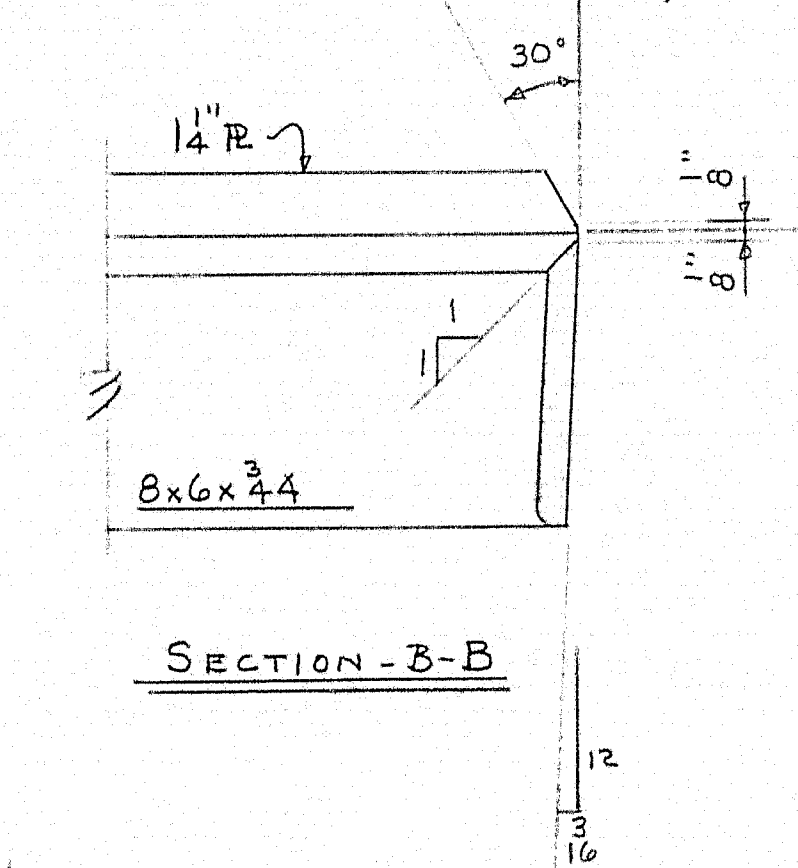
APPROVED 8-31-61

BEARING DEVICES & ANCHOR BOLTS			
PRINT ISSUE			
Bancroft & Martin Rolling Mills Company Brewer, Maine			
RT. 7 BRIDGE OVER INTERSTATE #95 PLYMOUTH MAINE			
CUSTOMER E.N. NASON DESIGNER STATE HIGHWAY COMM.			
ORDER VERBAL DWG. B61-233-S12			

03-127 N





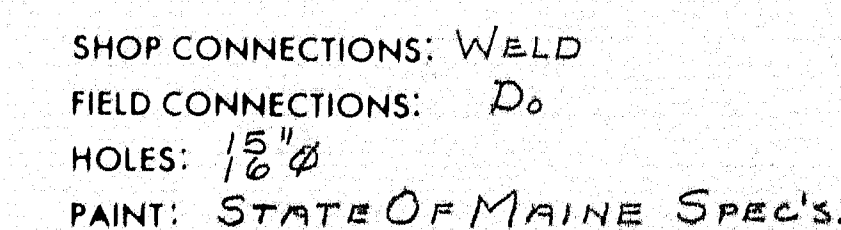
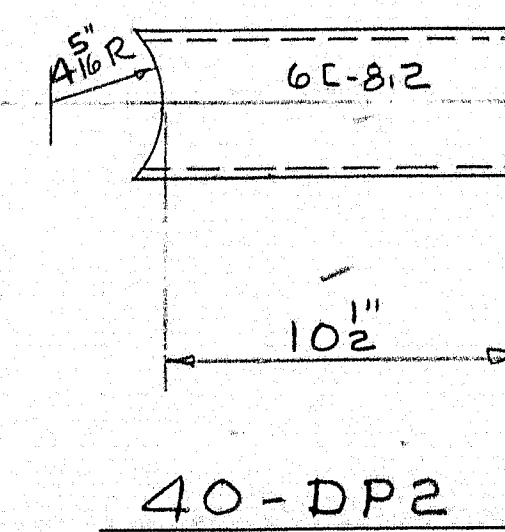


APPROVED 8-31-61

ROADWAY EXPANSION DAMS AT ABUTMENTS

PRINT ISSUE		<i>Bancroft &amp; Martin Holding Mills Company</i> <i>Brewer, Maine</i>	
4	P.O.R.T.	9-1-61	RT. 7 BRIDGE OVER INTERSTATE # 95 PLYMOUTH MAINE
3	C.O.S.T.	9-1-61	
2	F.A.	8/28/61	
DRAWN	8-18-61	D.C.	CUSTOMER E. N. NASON DESIGNER STATE HIGHWAY COMM.
REVISION			
REVISION			
REVISION			
			ORDER VERBAL DWG. B61-233-S13





APP'D AS NOTED 8-31-61

DIAPHRAGMS, SAFETY CURB & PIPE DRAINS

PRINT ISSUE			<i>Bancroft &amp; Martin Rollings Mills Company</i> <i>Brewer, Maine</i>	
4	SHOP	9-1-61	RT. 7 BRIDGE OVER INTERSTATE #95	
3	CUST.	9-1-61	PLYMOUTH MAINE	
2	F.A.	8-28-61	CUSTOMER <u>E. N. NASON</u>	
DRAWN	8-21-61	D.C.	DESIGNER <u>STATE HIGHWAY COMM.</u>	
REVISION			ORDER <u>VERBAL</u>	
REVISION			DWG. <u>B61-233-514</u>	
REVISION				