

**GENERAL NOTES**

All concrete to be Class A max. aggregate 1 1/2 inches. All reinforcing bars to have a 2 covering outside of rods, except as otherwise shown. Dimensions shown are to rod centers. All reinforcing to be deformed bars of structural steel grade and shall conform to A.S.T.M. Specs. series Des. A-5-30. Structure to be built to conform at all points to grade produced by the vertical curve, except as noted. No surplus excavated material shall be left, within the railroad clearance lines, or to obstruct the natural flow of the stream. Carefully backfill all excavated spaces evenly in all directions so that earth pressures about any portion of the structure will be equal at any time. Paint Galv. metal cap shields two coats of concrete grey paint before placing. Concrete handrail shall not be poured until after falsework has been removed. Use Bureau of Highways standard specifications except as otherwise noted. Paint structural steel - one shop coat of red lead and two field coats of aluminum paint. Paint expansion units one shop coat of red lead. All rivets to be 3/4 except as noted. Permissible construction joints are shown. Special care shall be taken in abutment excavation to protect faces where neat excavation is called for on the plans. Present structure shall be removed. In fabricating structural steel use A.A.S.H.O. specifications of Dec. 1, 1926. All piles shall be pressure treated to contain not less than 8% of creosote oil per cu. ft. by the empty cell process.

**DESIGN DATA**

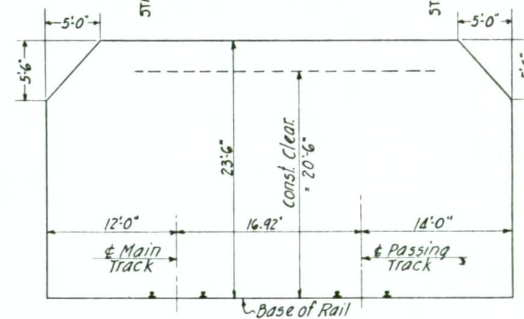
Structure designed in accordance with A.A.S.H.O. specifications of Dec. 1, 1926. Concrete spans - Live Load - slab and cross beams 2-15 ton trucks passing 8/10 of load on rear axle, impact 30%. Roadway slab designed for a future wearing surface of 1 1/2" per sq. ft. in addition to that shown on the plans. Concrete spans 1 to 6 incl. stringers designed for H-15 lane loads with varying impact 10% to 25%. Concrete span no. 8 designed as a simple span, live load - 2-15 ton trucks. Steel truss span no. 7 - Dead Load - 53400 lbs. per panel per truss. Uniform Live Load - 450 x 1.33 = 525 lbs per lineal foot per truss. Concentrated Live Load - 21000 x 1.33 = 24500 lbs. per truss. Floor system - Live Load - 2-15 ton trucks, 8/10 on rear axle, 30% impact. Impact - Uniform Live Load 1.33 x 1.25 = 1.66. Impact - Concentrated Live Load 1.33 x 1.25 = 1.66. Impact - verticals, end floor beams and floor beam connections - 60%. Wind Load - 30 lbs. per sq. ft. on side area of exposed floor and rail, and 1/2 times the side area of truss = 200 lbs. per panel on upper system, and 480 lbs. per panel on lower system, acting as moving loads. A 3.5 surcharge is used in abutment and wing wall design. Piles shall be driven to a bearing capacity of 20 tons per pile.

**DRAWINGS**

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BLAST PLATES	90-A

**QUANTITIES**

CONCRETE CLASS A	1313 CU. YDS.
REINFORCING STEEL	207857 LBS.
CAST STEEL & BOLTS	13995 LBS.
BRONZE PLATES	23 LBS.
16 GA. GALV. METAL PLATES & INSERTS	235 LBS.
STRUCTURAL STEEL	LUMP SUM
EXCAVATION (STRUCTURE)	890 CU. YDS.
PILES-TREATED (BELOW CUT-OFF)	6370 LIN. FT.
REMOVING OLD BRIDGE	LUMP SUM
22 GA. GALV. CORRUGATED METAL	2930 LBS.
MOUNTAIN REGION FIR-TREATED	.912 M.F.B.M.



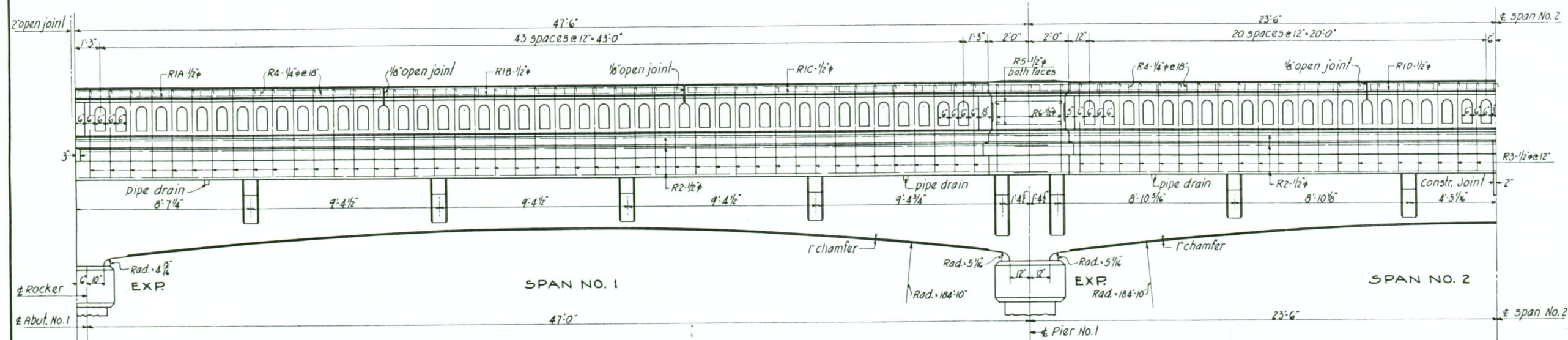
R.R. CLEARANCE DIAGRAM  
1/8" = 1'-0"

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.  
**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO  
 Scale: 1/4" = 1'-0" Designed by J.D. CW.  
 Approved: Checked by W.A.  
 Assl. Bridge Eng'r. Date 7-27-35  
**FILE NO. 6-A DRAWING NO. 55**

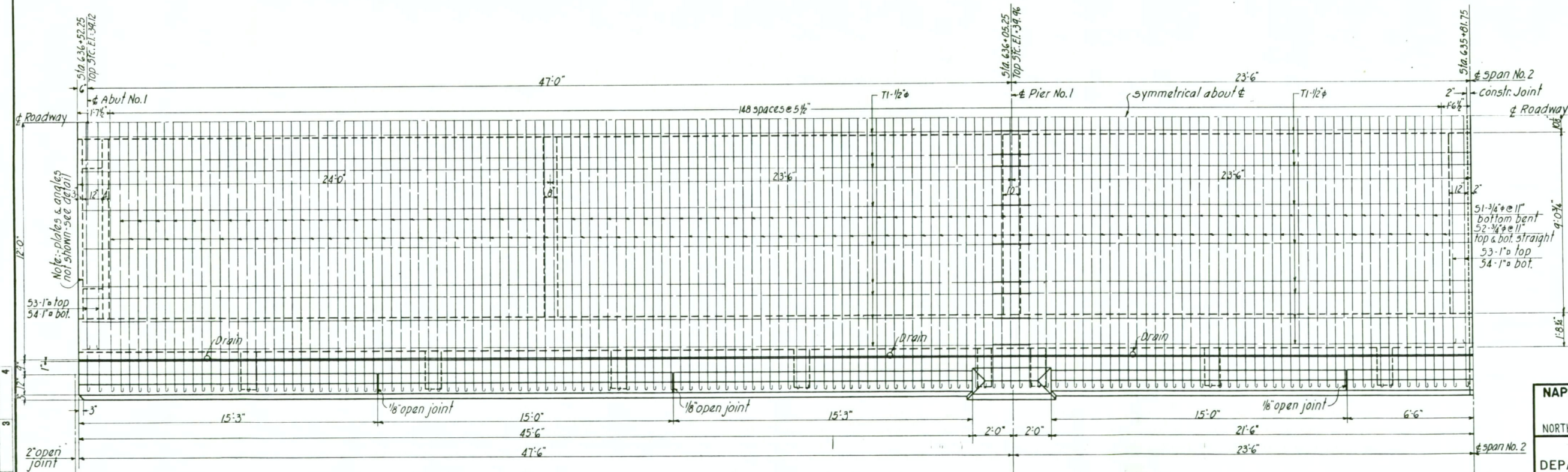
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RECORD	1
DATE	1/30/77
ROLL NO.	1
AP-CARD OR FRAME NO.	55
METRIC	2 3 4 5 6 7 8 9 10
INCHES	1 2 3 4

Rev. 7-20-35  
 Rev. 6-27-36  
 8-30-35  
 Rev. 6-17-35

FED. ROAD DIST. NO.	STATE	GRADE LINE PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	11 P.O.A.		



RAIL ELEVATION - SPANS No. 1 & 2



PLAN - SPANS No. 1 & 2

DATE	ROLL NO.	AP-CARD or FRAME NO.
1/30/77	1	56

METRIC	1	2	3	4	5	6	7	8	9	10
INCHES	1	2	3	4	5	6	7	8	9	10

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.

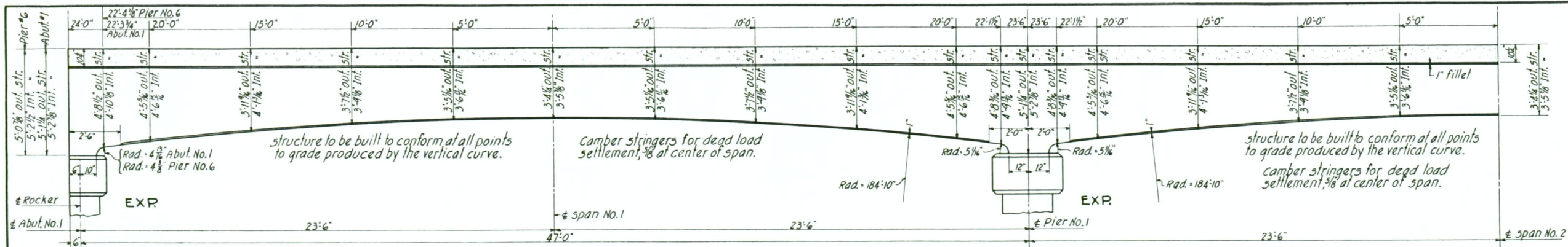
**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 3/8" = 1'-0" Designed by JJD.-CW.  
 Approved: Checked by W.A.  
 JJD. Asst. Bridge Eng'r. Date 7-27-55

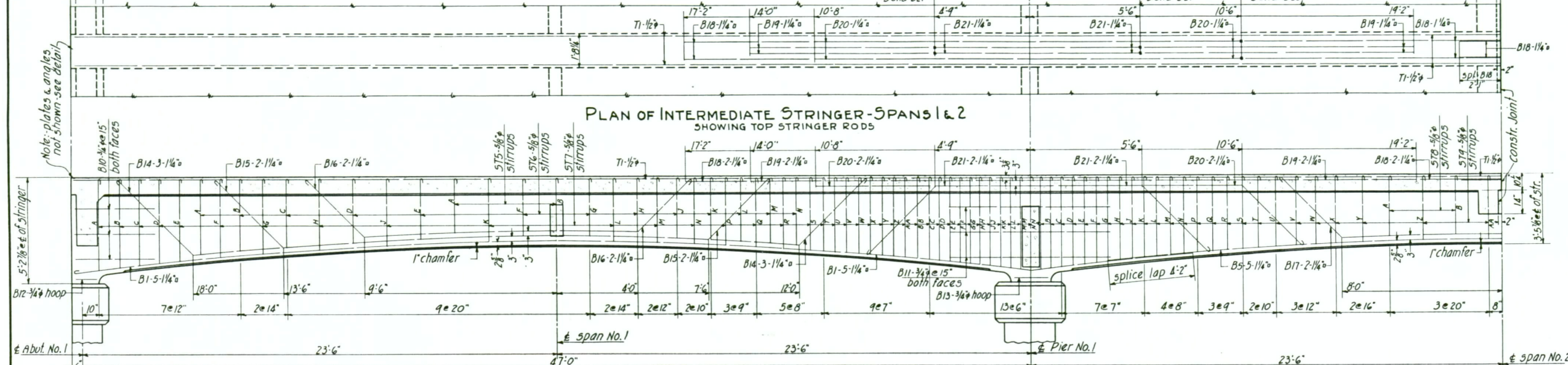
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Revised 6-22-36

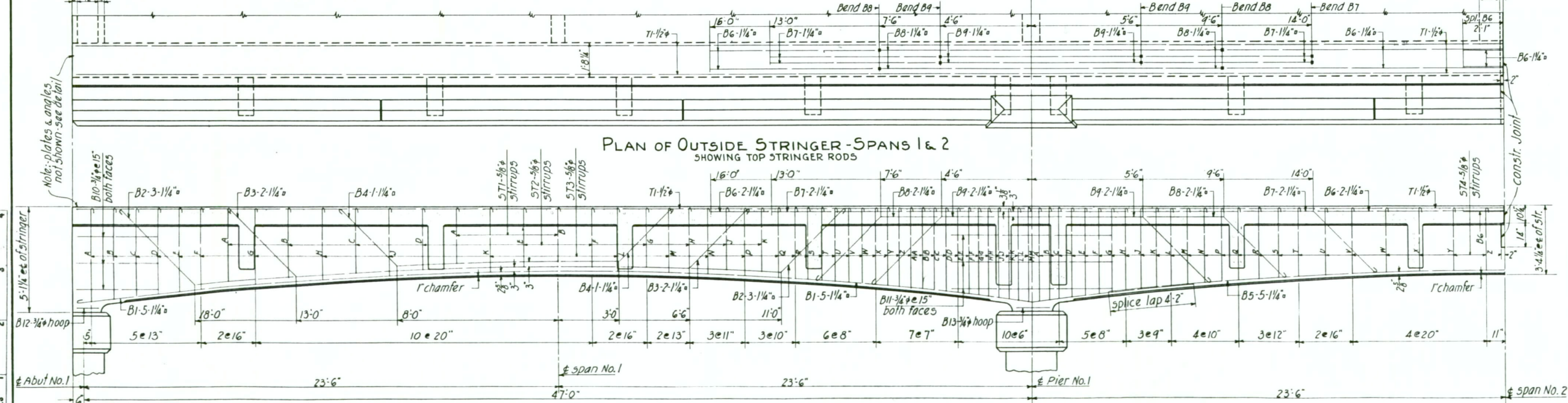
FED. ROAD DIST. NO.	STATE	Grade King Proj. No.	TOTAL SHEETS	SHEET NO.
12	IDAHO	WBS H-20-A		



**ELEVATION-STRINGER DEPTHS- SPANS 1 & 2**  
SPANS 5 & 6 SIMILAR EXCEPT REVERSED (& EXCEPT AS OTHERWISE SHOWN.)



**DETAIL OF INTERMEDIATE STRINGER- SPANS 1 & 2**  
SPANS 5 & 6 SIMILAR EXCEPT REVERSED (& EXCEPT AS OTHERWISE SHOWN.)



**DETAIL OF OUTSIDE STRINGER- SPANS 1 & 2**  
SPANS 5 & 6 SIMILAR EXCEPT REVERSED (& EXCEPT AS OTHERWISE SHOWN.)

RECORD NO.	AP-CARD or FRAME NO.
DATE	1/30/77
METRIC	2 3 4 5 6 7 8 9 10
INCHES	1 2 3 4

**NAPLES OVERHEAD & RIVER XING**  
NAPLES, IDAHO  
STA. 634

NORTH & SOUTH HWY BOUNDARY CO.

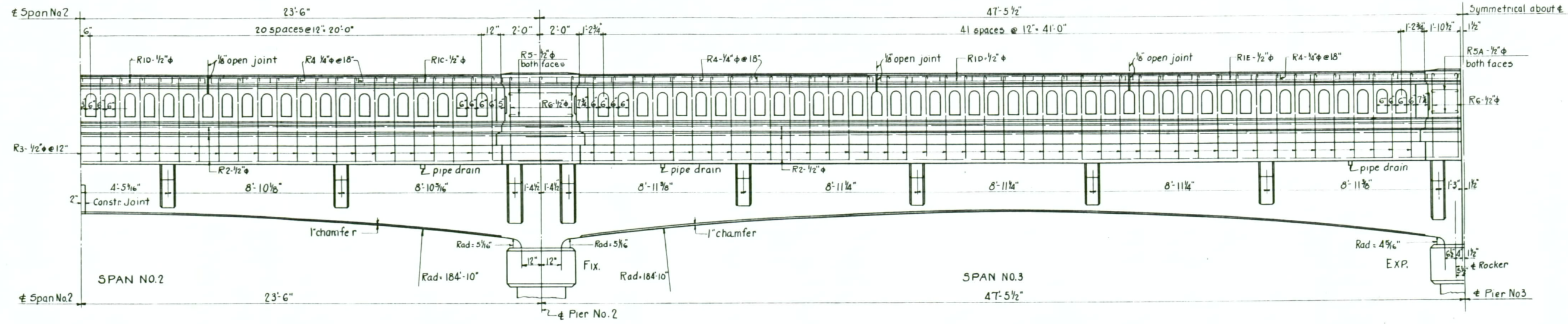
**STATE OF IDAHO**  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF HIGHWAYS  
BOISE-IDAHO

Scale: 1/8" = 1'-0"  
Designed by JJB-CM.  
Approved: [Signature] Ass't. Bridge Eng'r. Date 7-27-55  
Checked by WVA.

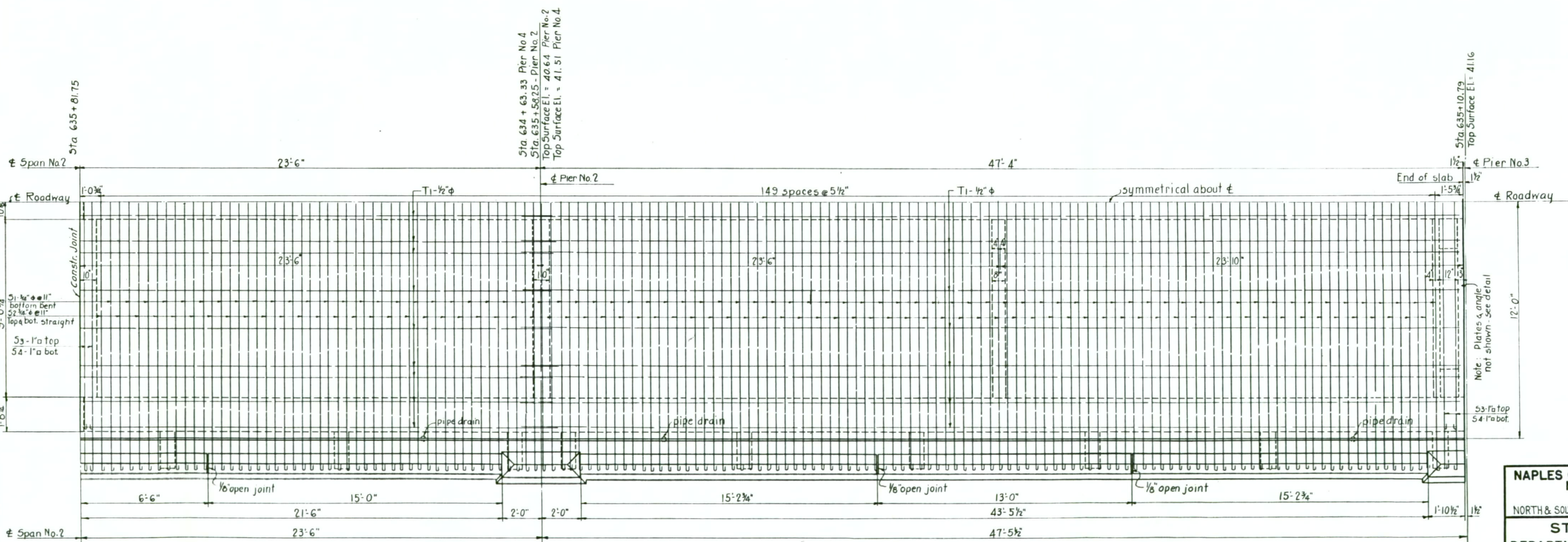
**FILE NO. 6-A DRAWING NO. 57**

Revised 6-22-36

FED. ROAD DIST. NO.	STATE	Grade King PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	WPS H-20-A		



RAIL ELEVATION SPANS No 2 & 3  
SPANS No 4 & 5 SIMILAR EXCEPT REVERSED.



PLAN-SPANS No 2 & 3  
SPANS No 4 & 5 SIMILAR EXCEPT REVERSED.

RECORD	DATE	ROLL NO.	AP-CARD OR FRAME NO.
	1/30/77	1	58

**NAPLES OVERHEAD & RIVER KING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY BOUNDARY CO.

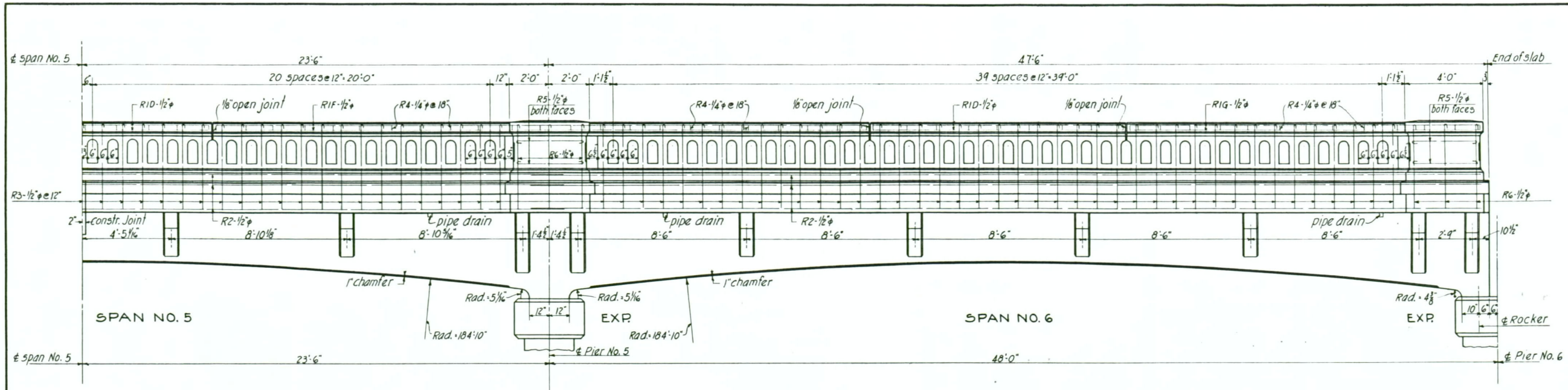
**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 1/8" = 1'-0" Designed by JJB: CW  
 Approved: Checked by W.A.  
 Ass't. Bridge Eng'r. Date 7-27-55

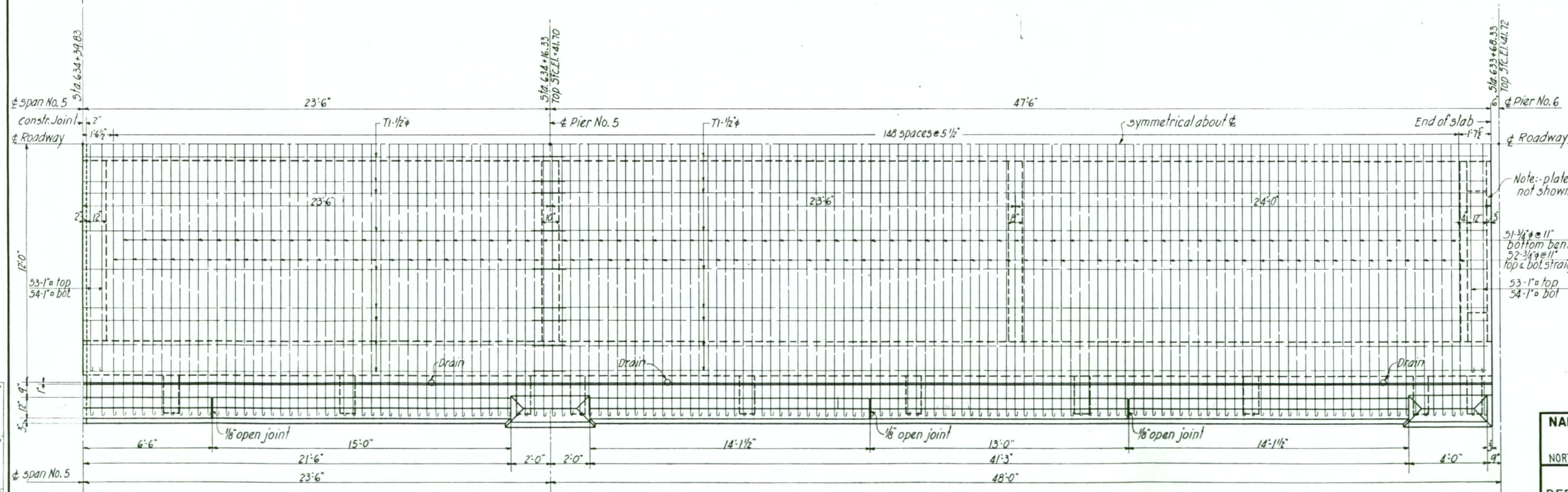
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Revised 6-22-36

FED. ROAD DIST. NO.	STATE	Grade King Proj. No.	TOTAL SHEETS	SHEET NO.
12	IDAHO	W.P.G. H-10-A		



RAIL ELEVATION-SPANS No. 5 & 6



PLAN-SPANS No. 5 & 6

Note: plates & angles not shown - see detail

91-3/4" @ 11" bottom bent  
52-3/4" @ 11" top & bot straight  
53-1" @ top  
54-1" @ bot

RECORD	AP-CARD or FRAME NO.
DATE	1/30/77
METRIC	2 3 4 5 6 7 8 9 10
INCHES	1 2 3 4

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY BOUNDARY CO.

**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

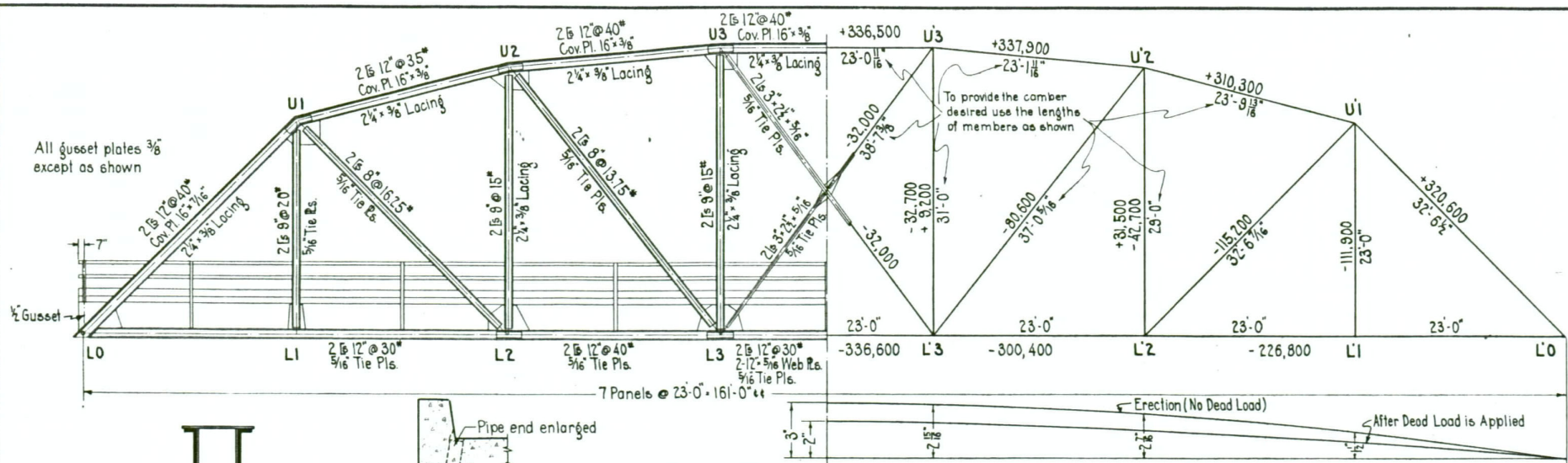
Scale: 3/8" = 1'-0" Designed by J.D.-C.W.  
 Approved: Checked by W.A.  
 J.D. C.W. Asst. Bridge Eng'r. Date 7-27-35

Revised 6-22-36

FILE NO. 6-A DRAWING NO. 60



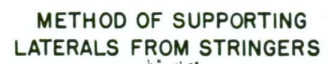
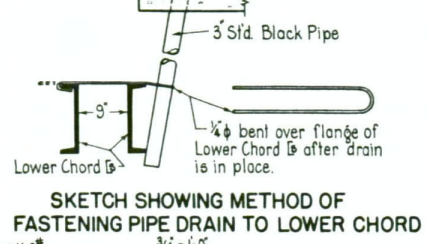
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12	IDAHO	W.P.S. H. 20-A		



**STRESS SUMMARY**

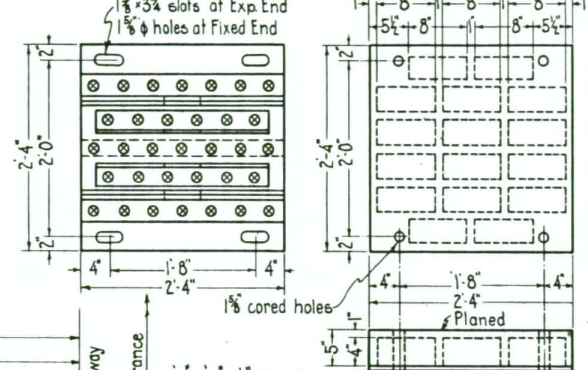
MEMBER	DEAD LOAD @ 53.4	LIVE LOAD		70% OF DEAD	50% OF SMALLEST D+L	TOTAL STRESS	SECTION AREAS		STRESSES SHOWN IN KIPS	DESIGN CONNECT. FOR.
		IMP	UNIFORM CONC.				GROSS REQ. PROV.	NET REQ. PROV.		
LoU1	+226.5	16.7%	+59.9	+34.6		+320.6	30.1	30.52	2b 12" @ 40" Cov. Pl. 16" x 3/8"	+324.2
U1U2	+219.0	"	+57.9	+33.4		+310.3	26.2	26.58	2b 12" @ 35" Cov. Pl. 16" x 3/8"	+312.0
U2U3	+238.5	"	+63.0	+36.4		+337.9	28.45	28.52	2b 12" @ 40" Cov. Pl. 16" x 3/8"	+350.0
U3U2	+237.5	"	+62.8	+36.2		+336.5	28.4	28.52	2b 12" @ 40" Cov. Pl. 16" x 3/8"	+350.0
LoL2	-160.0	"	-42.3	-24.5		-226.8	14.17	14.93	2b 12" @ 30"	-238.0
L2L3	-212.0	"	-56.0	-32.4		-300.4	18.80	18.95	2b 12" @ 40"	-319.0
L3L2	-237.5	"	-62.8	-36.3		-336.6	21.04	21.35	2b 12" @ 40" Web Pl. 12" x 5/16"	-341.5
U1L1	-53.4	60%	-18.35	-39.1		-111.9	6.99	9.18	2b 8" @ 20"	-147.0
U1L2	-72.6	19% 30%	-25.4 +6.4	-17.2 +13.0	-50.8	-115.2	7.20	7.28	2b 8" @ 16.25"	-116.5
U2L2	-1.6	20.6% 26.4%	+12.7 -12.7	+9.9 -11.9	-1.1 ± 10.5	+31.5 -42.7	3.19	8.82	2b 8" @ 15"	+87.0 -108.0
U2L3	-41.7	20.6% 26.4%	+10.5 +14.1	-17.4 +14.1	-28.2	-80.6	5.03	6.18	2b 8" @ 15.75"	-99.0
U3L3	-20.8	16.7% 23.0%	-5.5 +10.3	-3.4 +10.4	-14.6 ± 3.1	-32.7 +8.2	0.86	8.82	2b 8" @ 15"	-108.0
U3L2	0	23%	-15.9	-16.1		-32.0	2.0	2.02	2b 5" x 2 1/2" x 5/16"	-52.3

MAXIMUM F.B. REACTION = 98,560"  
 " END F.B. " = 78,630"  
 " TRUSS " = 265,000"

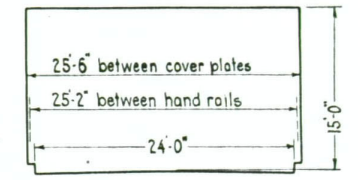
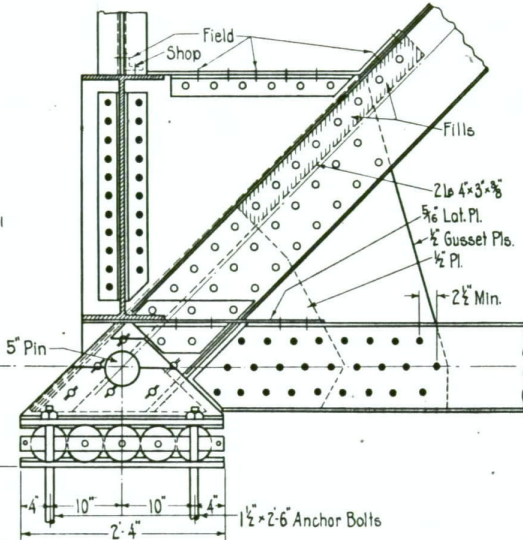
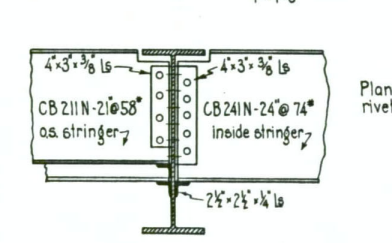


**CAMBER DIAGRAM**

3'-1'-0" (Vert)

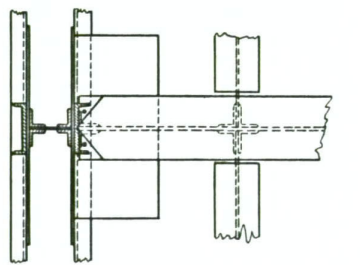


**CAST IRON FILLER FOR FIXED END**



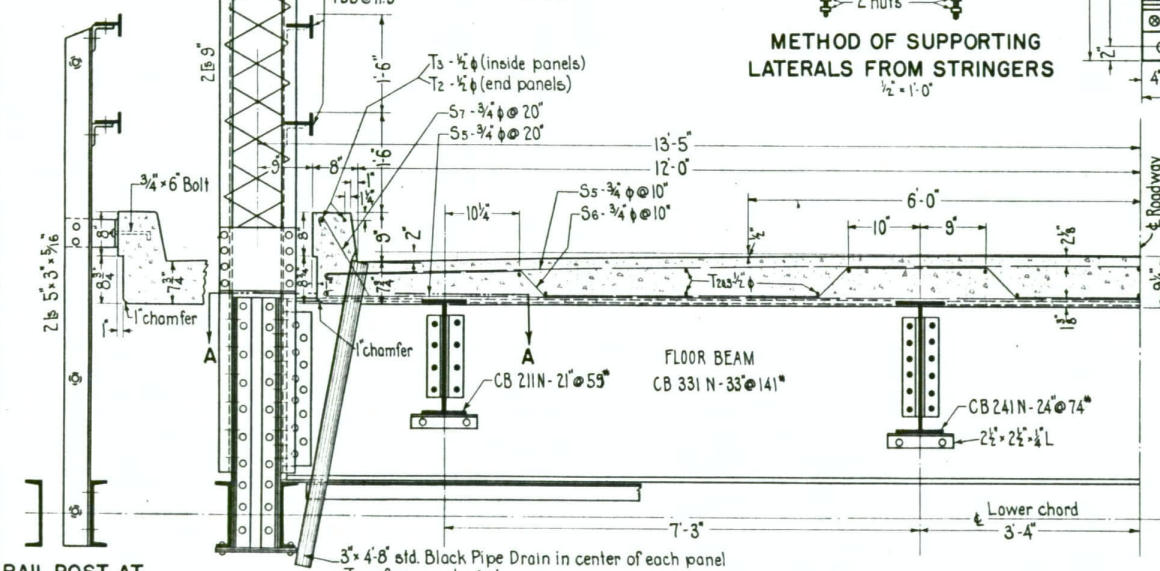
**CLEARANCE DIAGRAM**

1/8" x 1'-0"



**SECTION A-A**

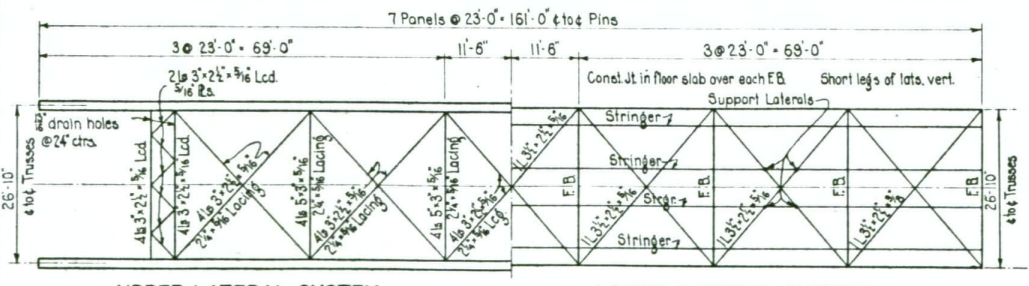
3/4" x 1'-0"



**HALF ROADWAY SECTION ON TRUSS**

3/4" x 1'-0"

RAIL POST AT CENTER OF EACH PANEL  
 3/4" x 1'-0"

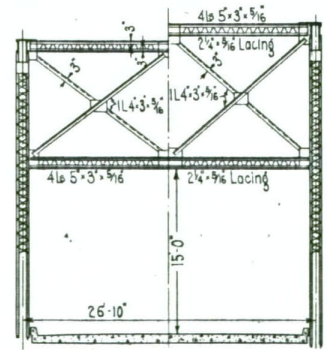


**UPPER LATERAL SYSTEM**

1'-15"

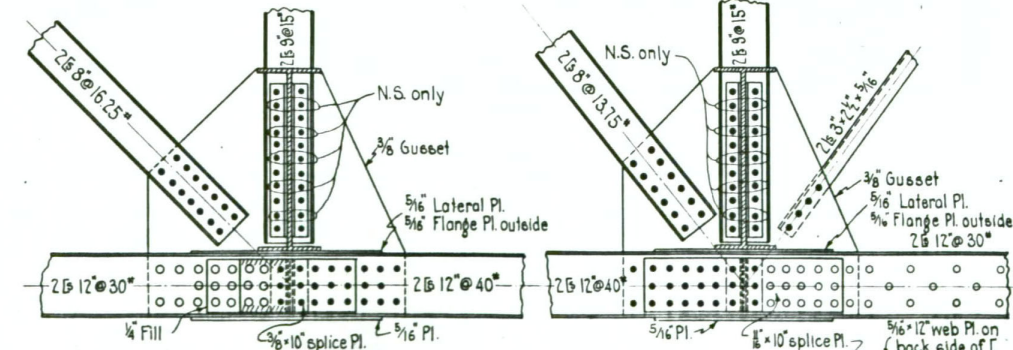
**LOWER LATERAL SYSTEM**

1'-15"



**SWAY BRACING AT U2U3**

1/8" x 1'-0"



**JOINT L2**

3/4" x 1'-0"

**JOINT L3**

3/4" x 1'-0"

MICRO	CORD	AP-CARD or FRAME NO.	1	2	3	4
DATE	ROLL		1	2	3	4
1/30/77						
METRIC	2	3	4	5	6	7
INCHES	1	2	3	4	5	6

**NAPLES OVERHEAD & RIVER KING**  
 NAPLES, IDAHO  
 STA. 634

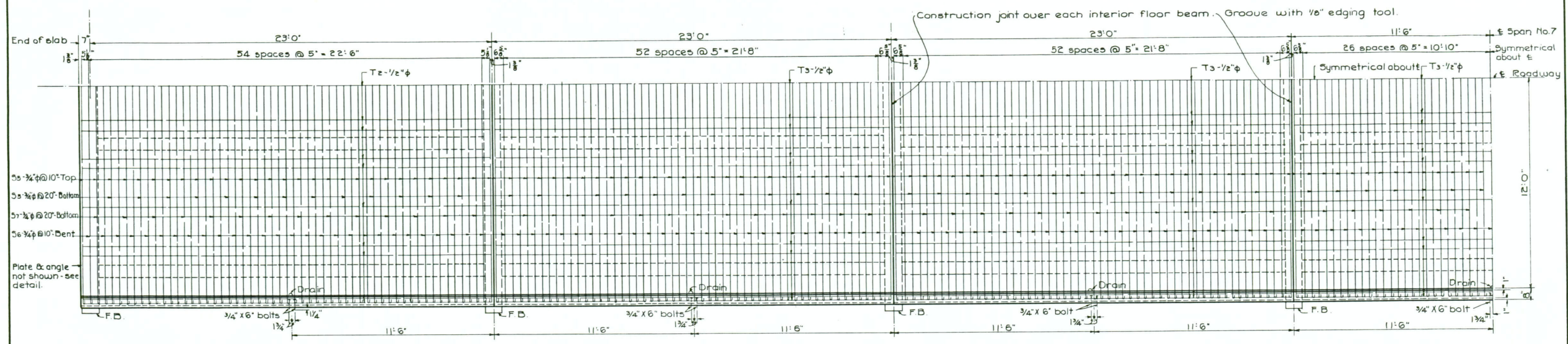
NORTH & SOUTH HWY. BOUNDARY CO.

**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

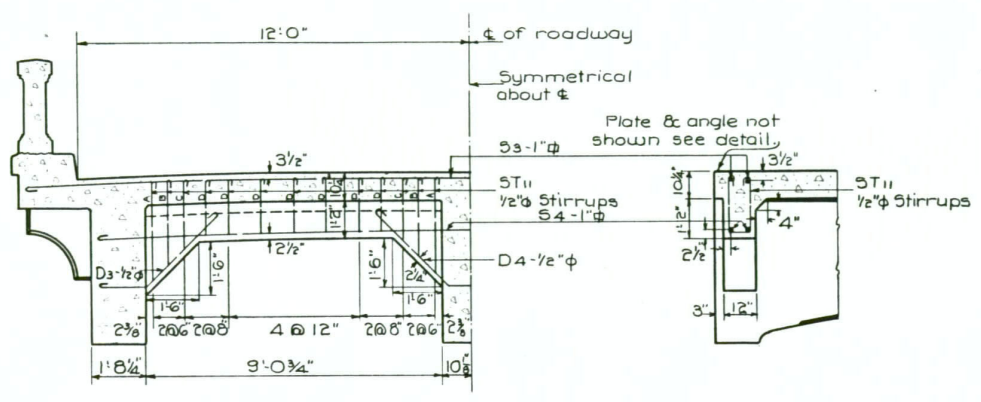
Scale: 1/8" = 1'-0" & as noted  
 Approved: [Signature] Ass't. Bridge Eng'r. Date 7-27-38  
 Designed by A.L.N.  
 Checked by J.J.D.

**FILE NO. 6-A DRAWING NO. 62**

FED. ROAD DIST. NO.	STATE	GRADE NO.	PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	7. P. G. H-20-A			

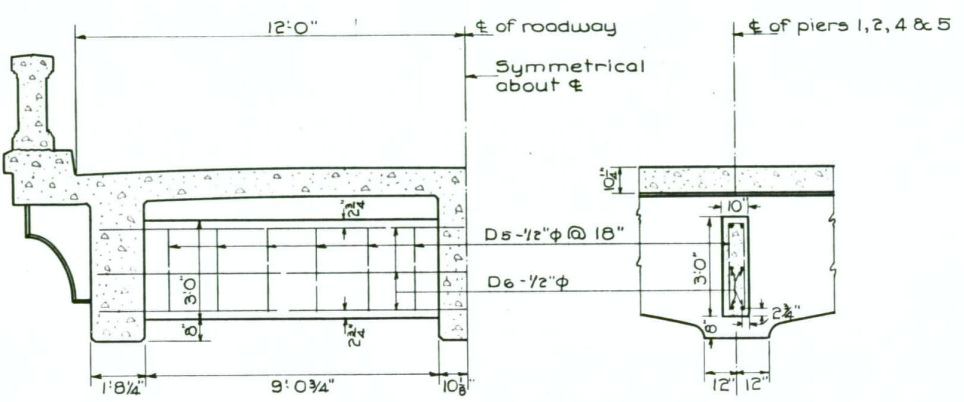


QUARTER PLAN OF TRUSS FLOOR - SPAN 7



DETAIL OF END BEAM  
At about 1 & 2 - piers 3-6-7

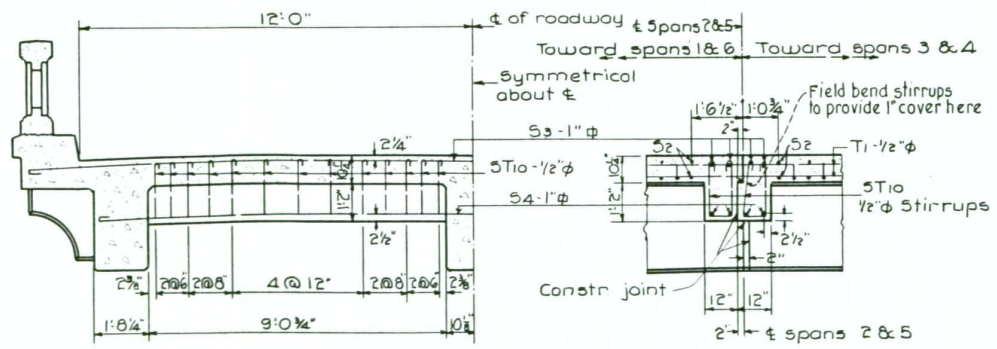
SECTION



DETAIL OF DIAPHRAGM OVER PIER

Over piers 1, 2, 4 & 5

SECTION



DETAIL OF CONSTR. JOINT BEAM  
Spans 2 & 5

SECTION

MICROFILM RECORD	AP-CARD or FRAME NO.
DATE	1/30/77
METRIC	2 3 4 5 6 7 8 9 10
INCHES	1 2 3 4

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY BOUNDARY CO.

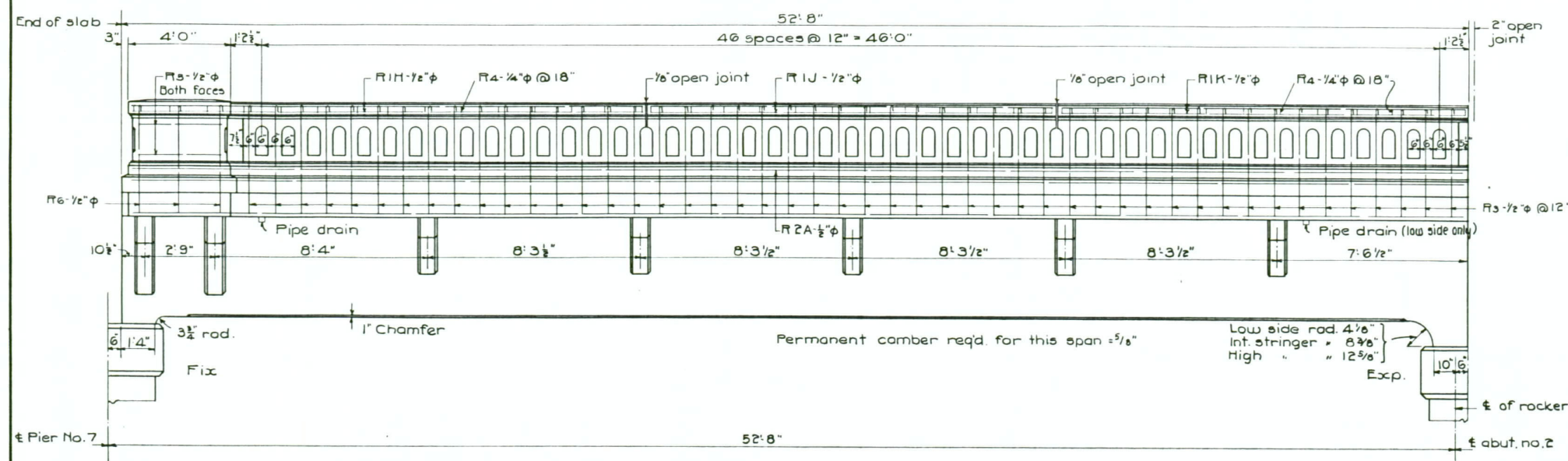
**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 3/8" = 1'-0" Designed by CWJJD  
 Approved: Checked by J.J.B.  
 Ass't. Bridge Eng'r. Date 7-27-55

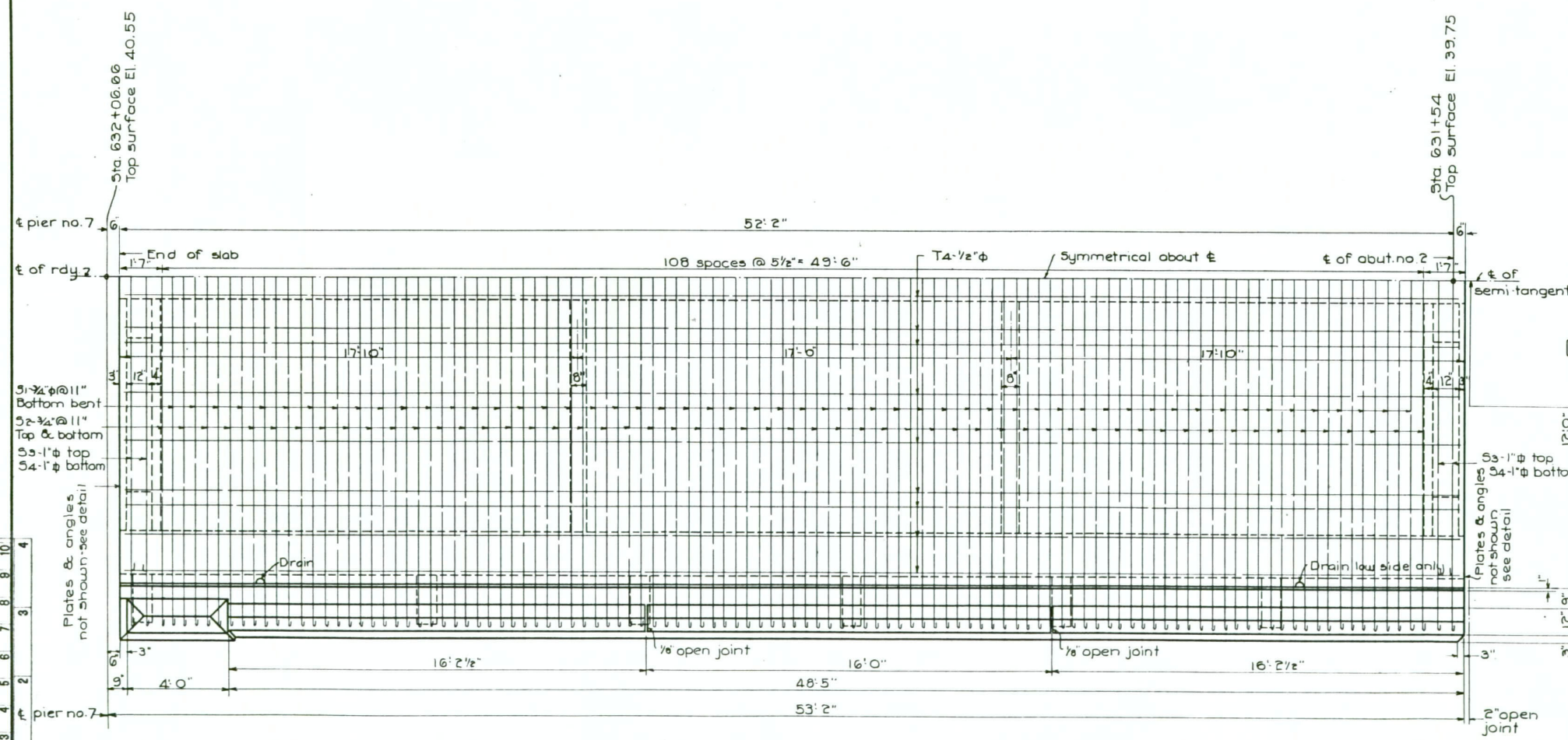
FILE NO. 6-A DRAWING NO. 63

Revised 6-22-56

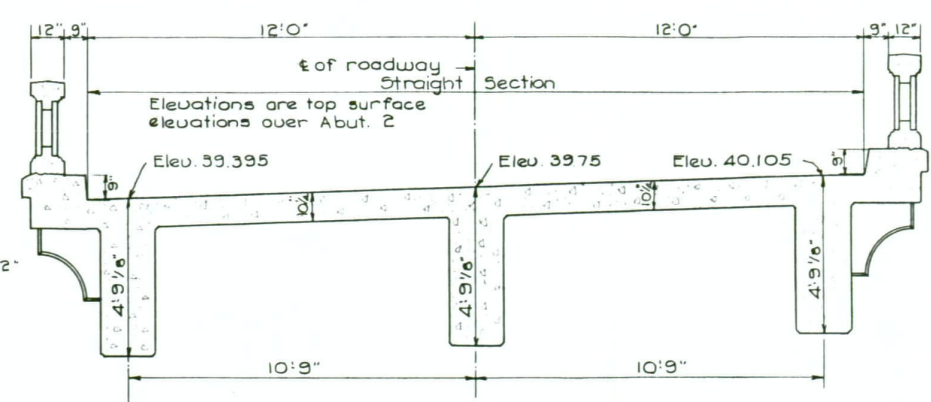
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12	IDAHO	Y.P.G. H-20-A		



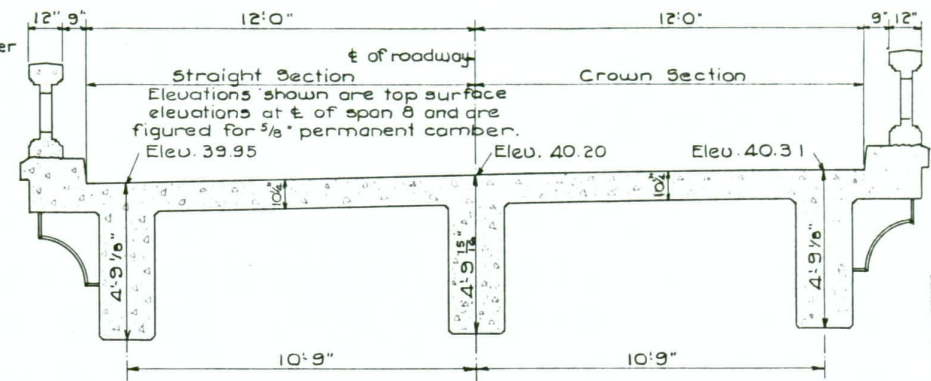
RAIL ELEVATION - SPAN NO. 8



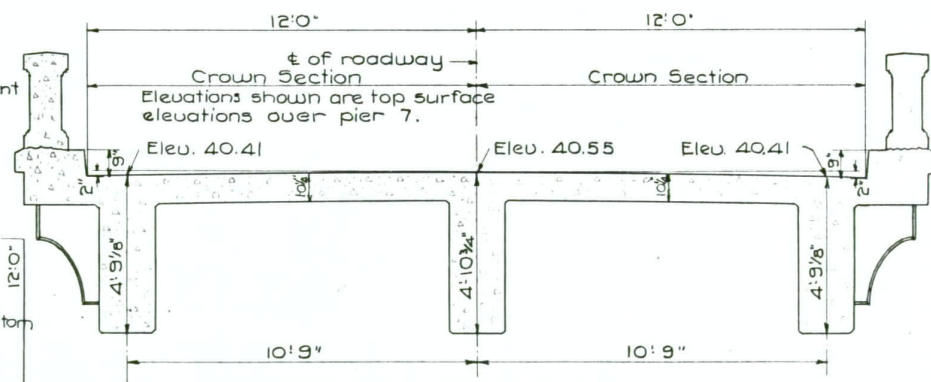
PLAN - SPAN NO. 8



SECTION AT ABUT. 2  
LOOKING BACK



SECTION AT € OF SPAN 8



SECTION AT PIER 7

ROADWAY SECTIONS SHOWING TRANSITION FROM 2" CROWN & NO SUPER-ELEVATION AT PIER NO. 7 TO NO CROWN & FULL SUPER ELEVATION AT ABUTMENT NO. 2

NAPLES OVERHEAD & RIVER XING  
NAPLES, IDAHO  
STA. 634  
NORTH & SOUTH HWY BOUNDARY CO.

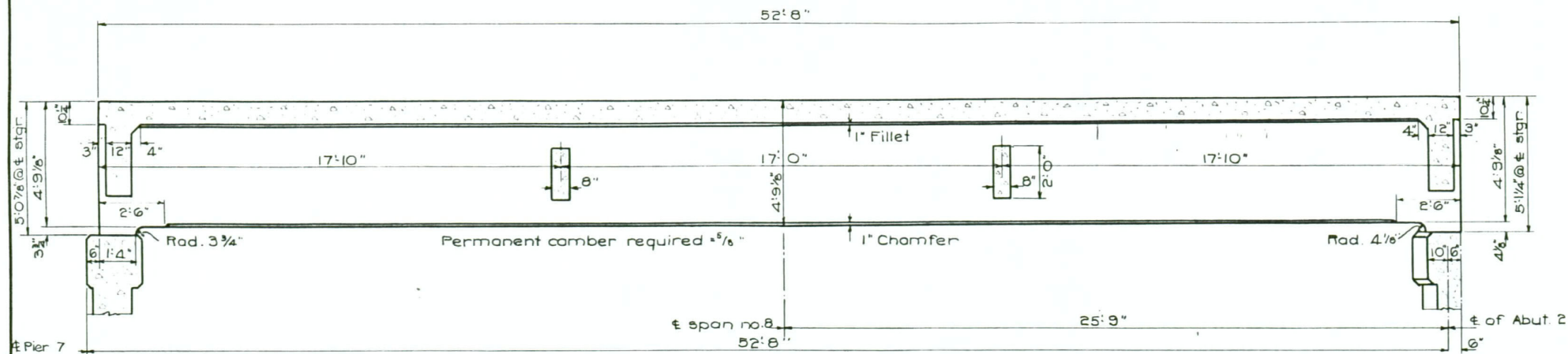
STATE OF IDAHO  
DEPARTMENT OF PUBLIC WORKS  
BUREAU OF HIGHWAYS  
BOISE-IDAHO

Scale: 3/8" = 1'-0"  
Approved: [Signature] Asst. Bridge Eng'r. Date 7-27-35  
Designed by CW  
Checked by J.J.B.

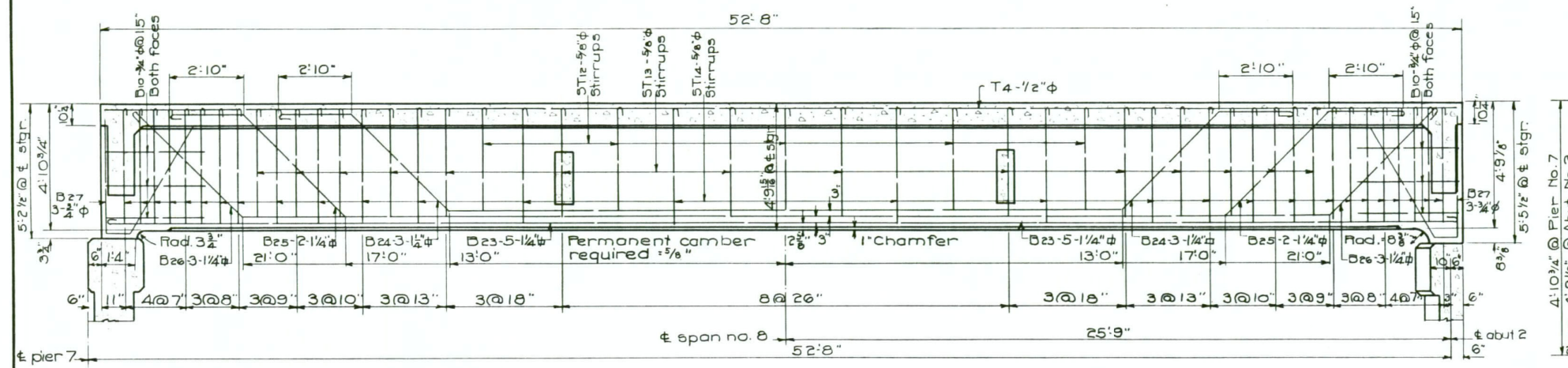
FILE NO. 6-A DRAWING NO. 64

MICROFILM RECORD	AP-CARD or FRAME NO.	64
DATE		1/30/77
METRIC	INCHES	1 2 3 4 5 6 7 8 9 10

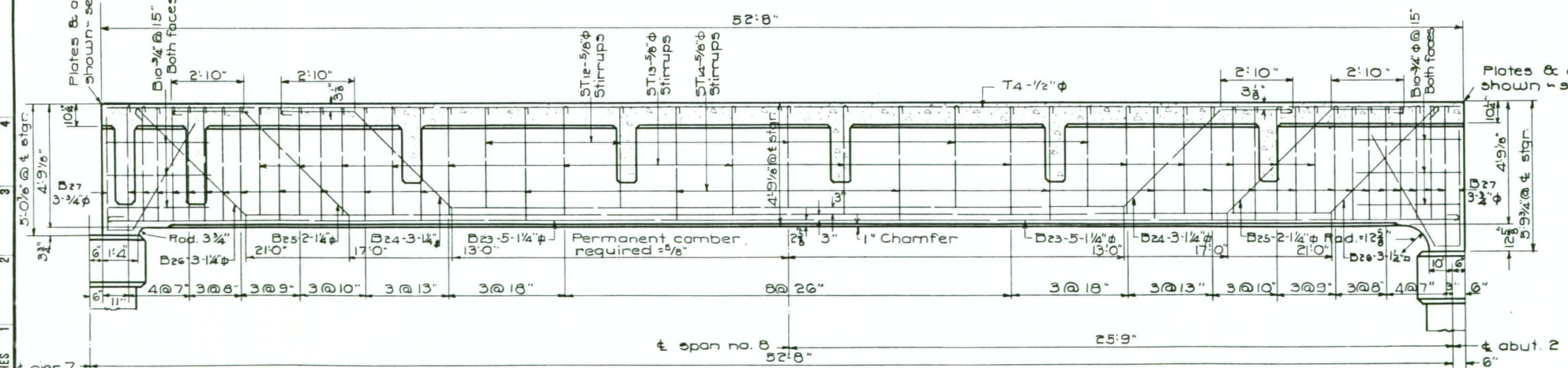
FED. ROAD DIST. NO.	STATE	GRADE KING PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	YY P G H 20-A		



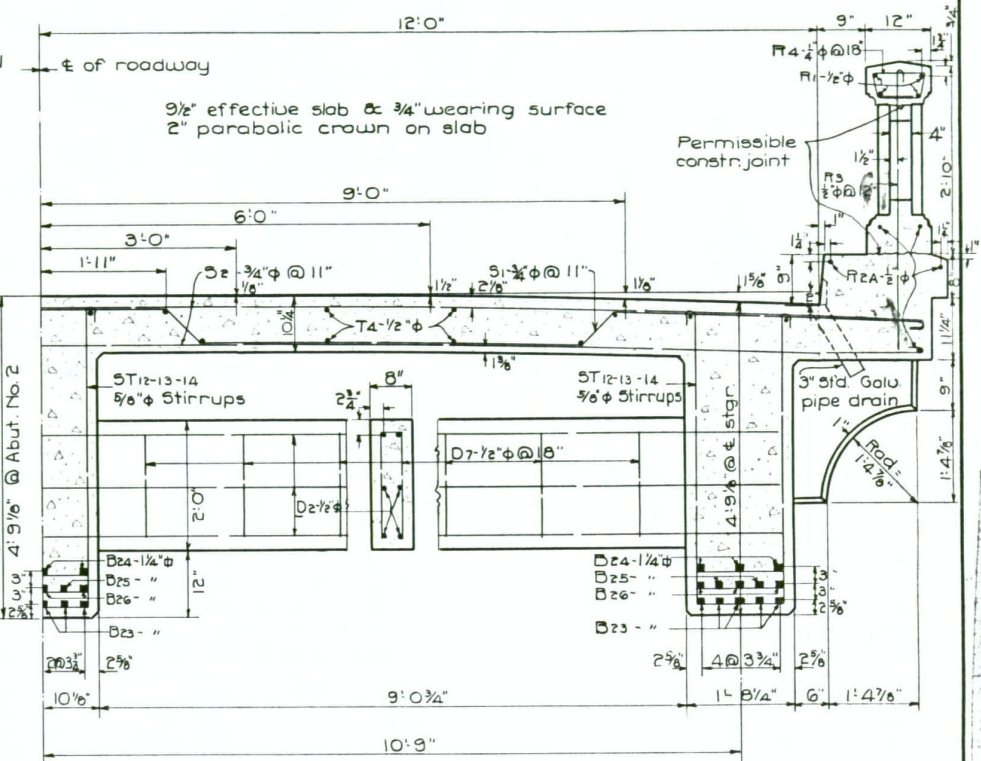
**DETAIL OF OUTSIDE STRINGER - SPAN NO. 8 - LOW SIDE**  
Stringer reinforcing same as for other outside stringer as detailed below.



**DETAIL OF INTERMEDIATE STRINGER - SPAN NO. 8**



**DETAIL OF OUTSIDE STRINGER - SPAN NO. 8 - HIGH SIDE**



**HALF ROADWAY SECTION - SPAN NO. 8**  
(Super elevation not shown)  
3/4" = 1'-0"

DATE	ROLL NO.	AP-CARD or FRAME NO.
1/30/77	1	65

METRIC	INCHES
2	1
3	2
4	3
5	4
6	5
7	6
8	7
9	8
10	9

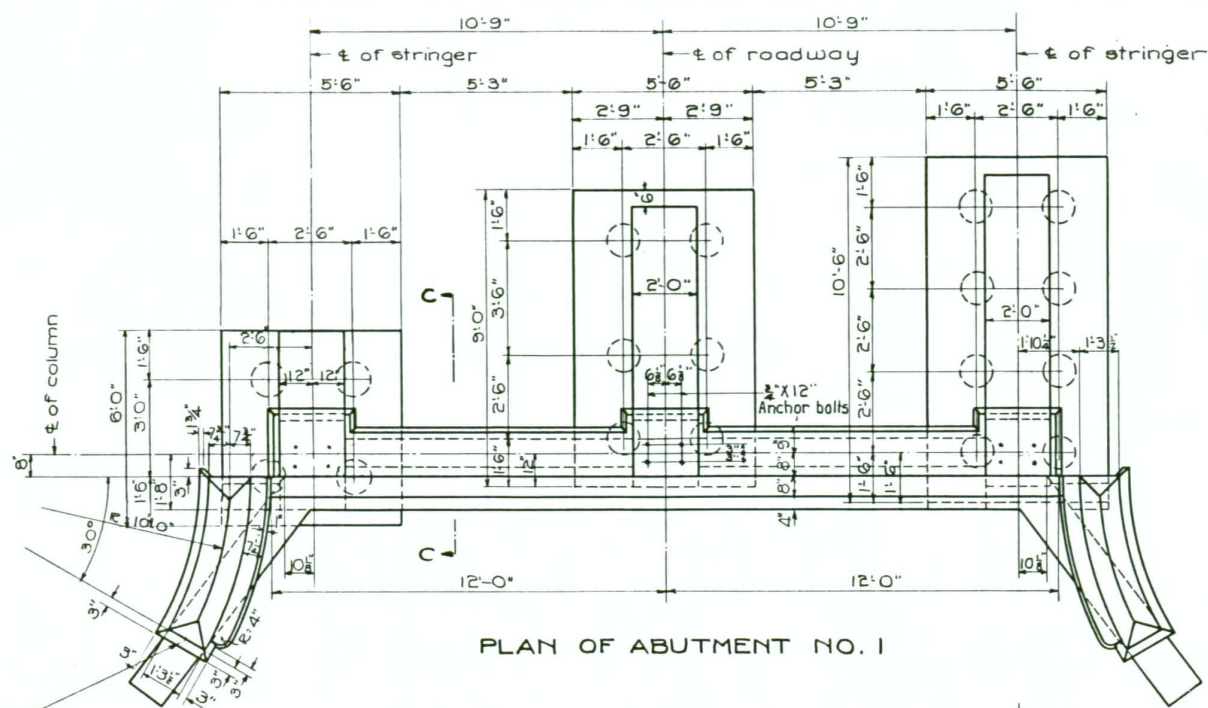
**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
NORTH & SOUTH HWY BOUNDARY CO.

**STATE of IDAHO**  
**DEPARTMENT of PUBLIC WORKS**  
**BUREAU of HIGHWAYS**  
BOISE-IDAHO

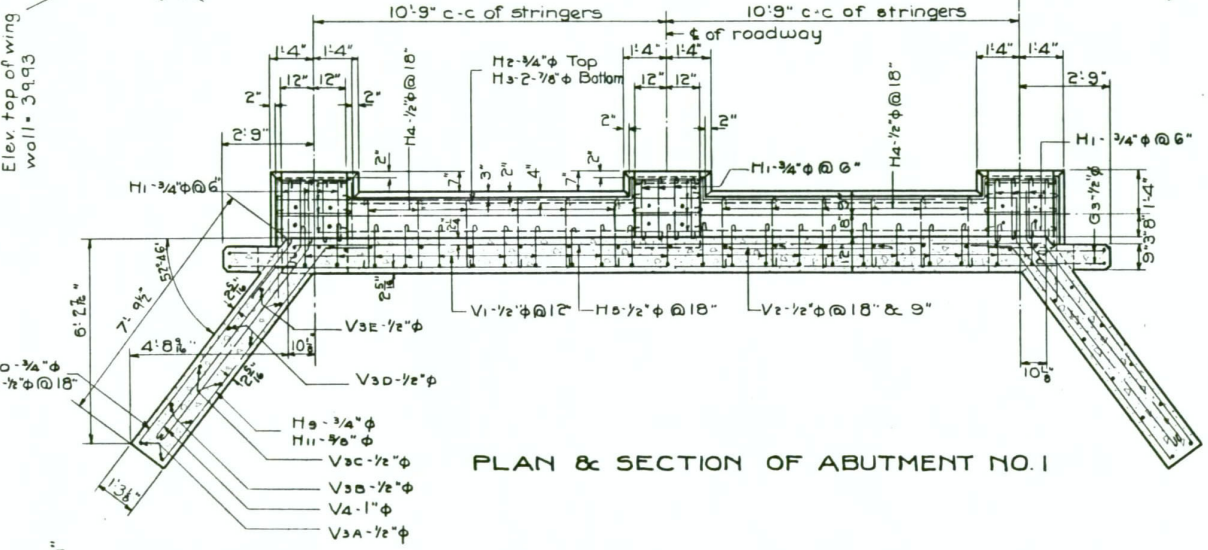
Scale: 3/8" = 1'-0" Designed by CW  
Approved: Checked by J.J.B.  
J. Peyer Asst. Bridge Eng'r. Date 7-27-55

**FILE NO. 6-A DRAWING NO. 65**

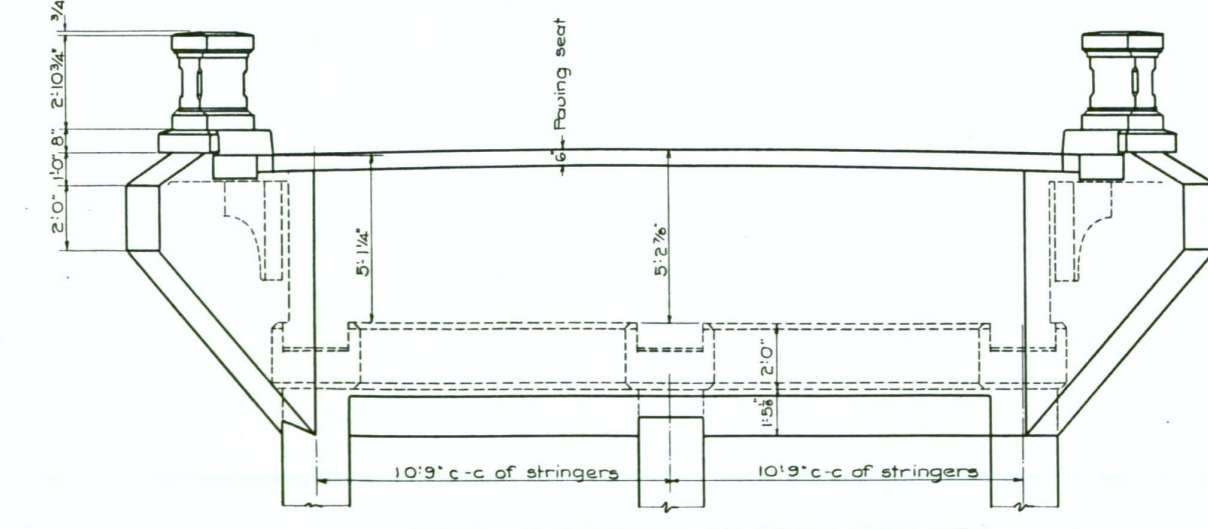
FED. ROAD DIST. NO.	STATE	BRIDGE PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	V.I.P. & H-20-A		



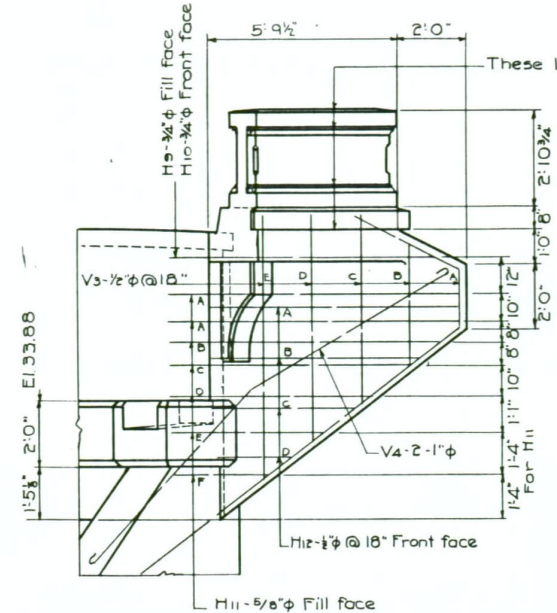
PLAN OF ABUTMENT NO. 1



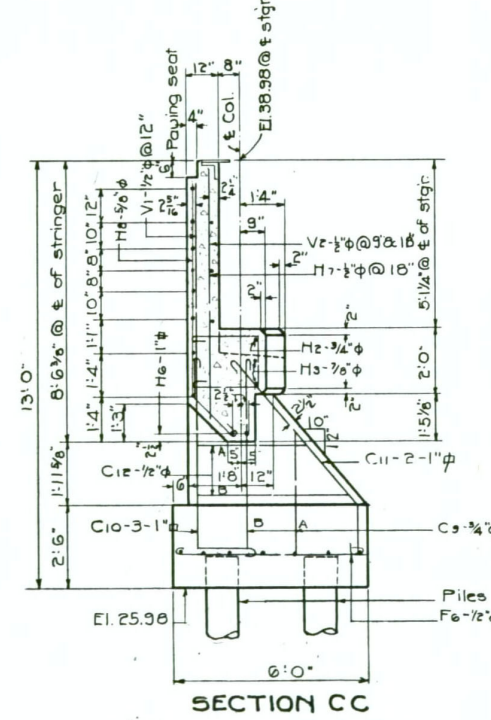
PLAN & SECTION OF ABUTMENT NO. 1



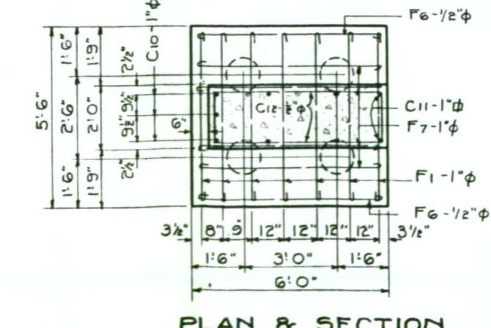
REAR ELEVATION OF ABUTMENT NO. 1



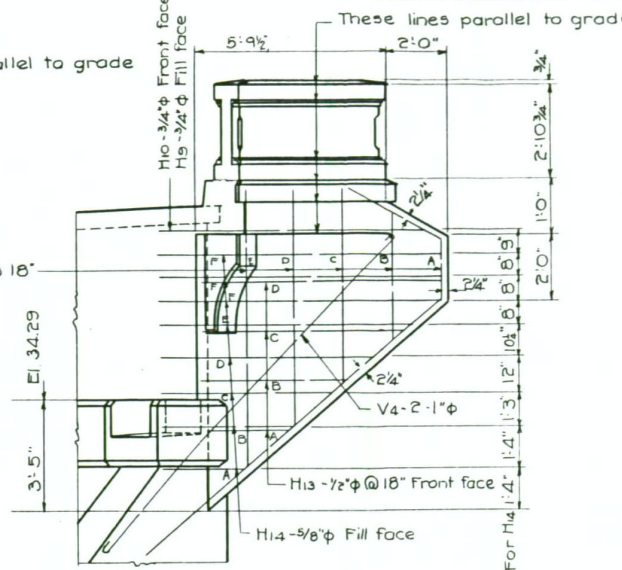
WING ELEVATION - ABUTMENT NO. 1



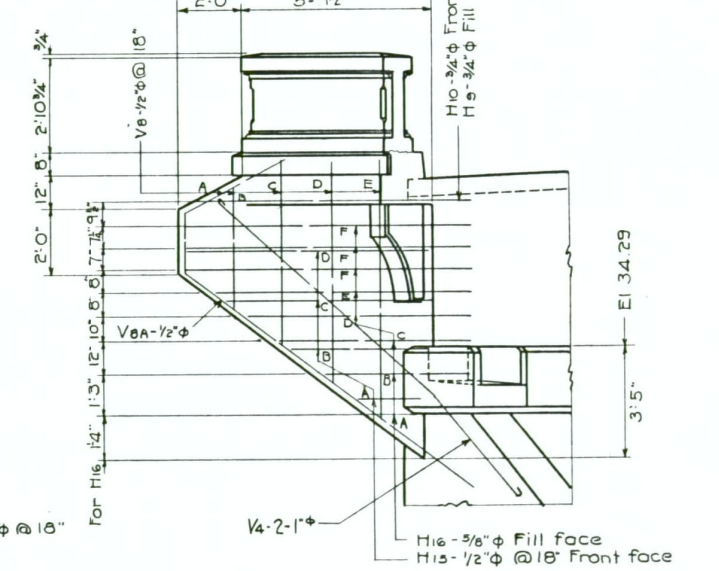
SECTION CC



PLAN & SECTION



DETAIL OF WING NO. 1 - ABUT. NO. 2



DETAIL OF WING NO. 2 - ABUT. NO. 2

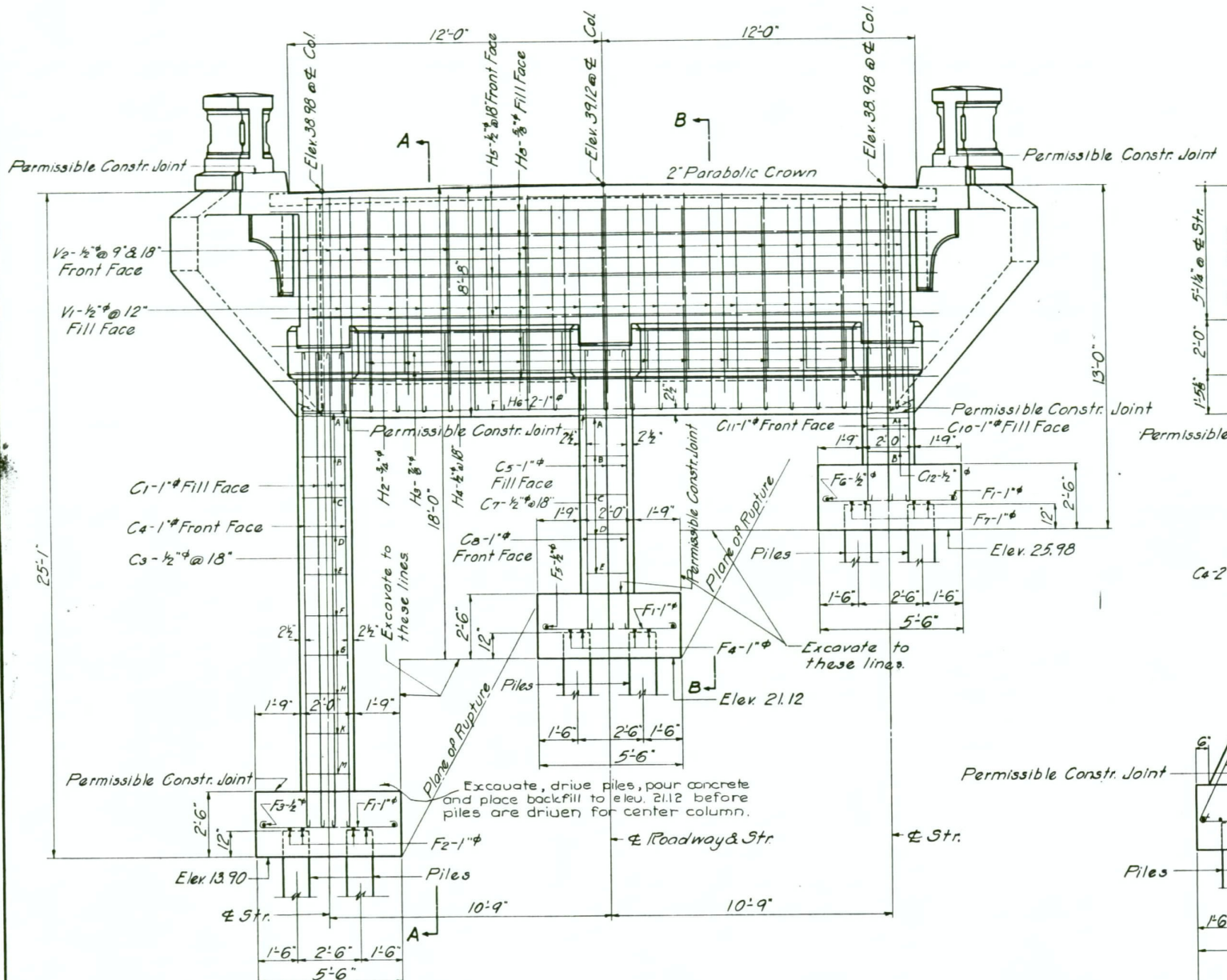
MICROFILM RECORD	AP-CARD or FRAME NO.	1	2	3	4
DATE	1/30/77	5	6	7	8
METRIC	2	3	4	5	6
INCHES	1	2	3	4	5

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.

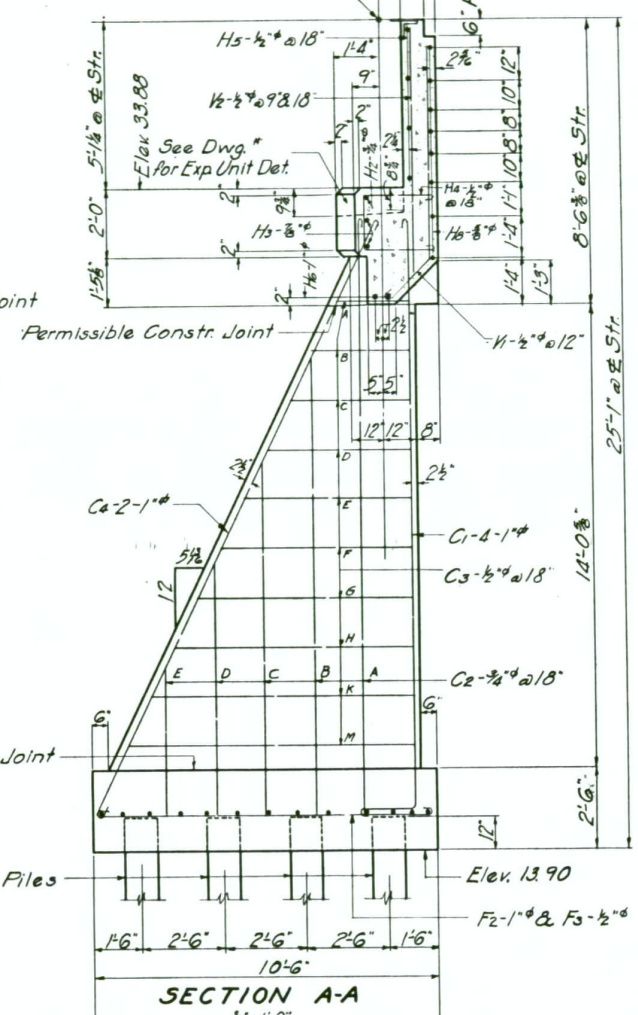
**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 3/8" = 1'-0"  
 Approved: [Signature] Asst. Bridge Eng'r. Date 7-27-35  
 Designed by W.T.W.  
 Checked by W.A.

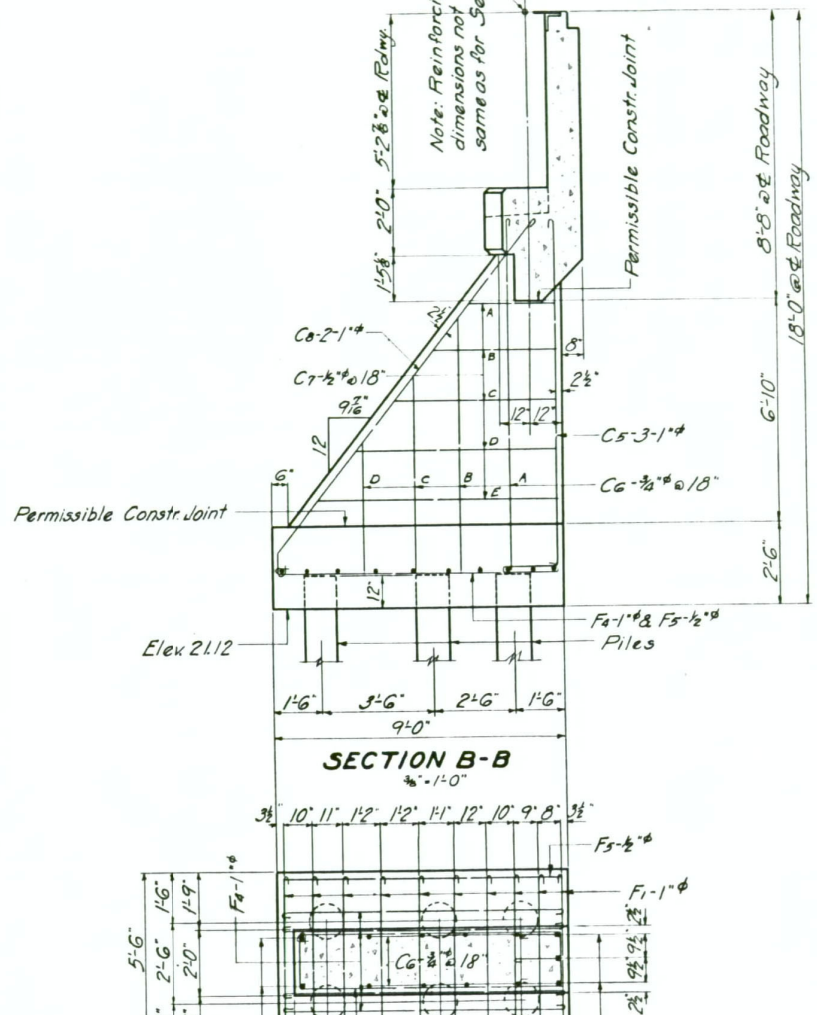
**FILE NO. 6-A DRAWING NO. 66**



**FRONT ELEVATION ABUTMENT NO. 1**  
3/8" = 1'-0"

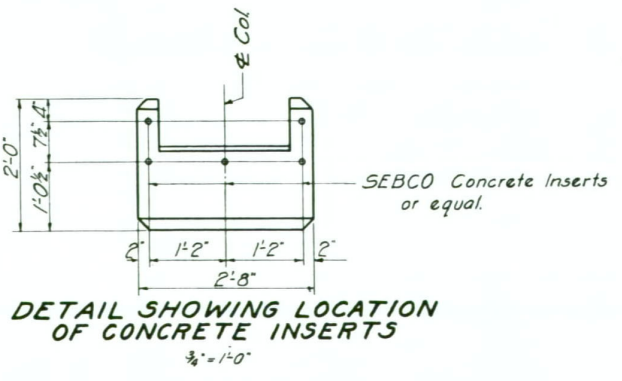


**SECTION A-A**  
3/8" = 1'-0"



**SECTION B-B**  
3/8" = 1'-0"

**PLAN & SECTION**  
3/8" = 1'-0"

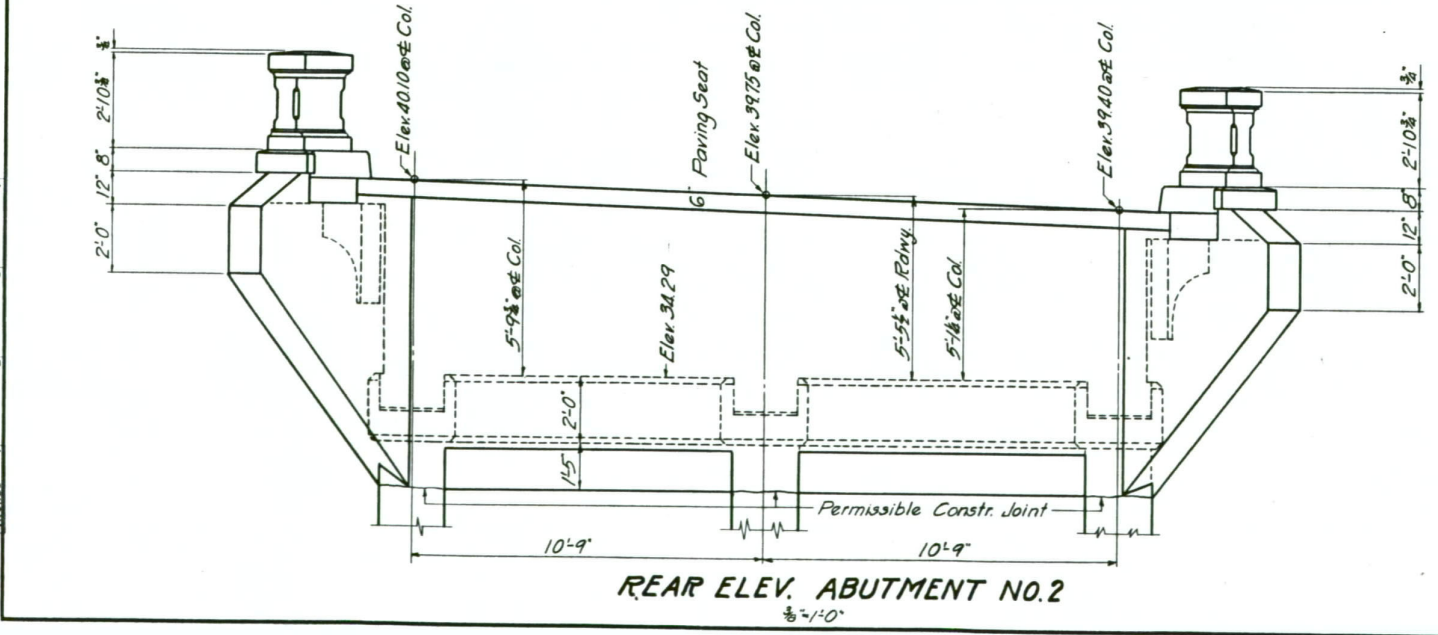
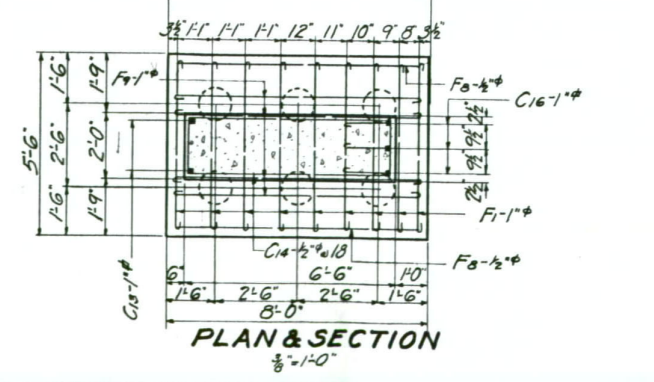
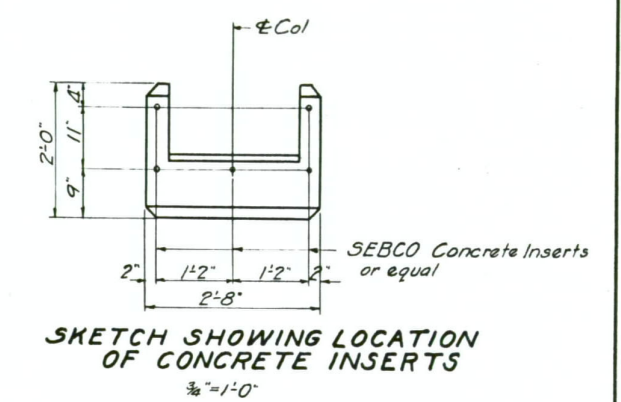
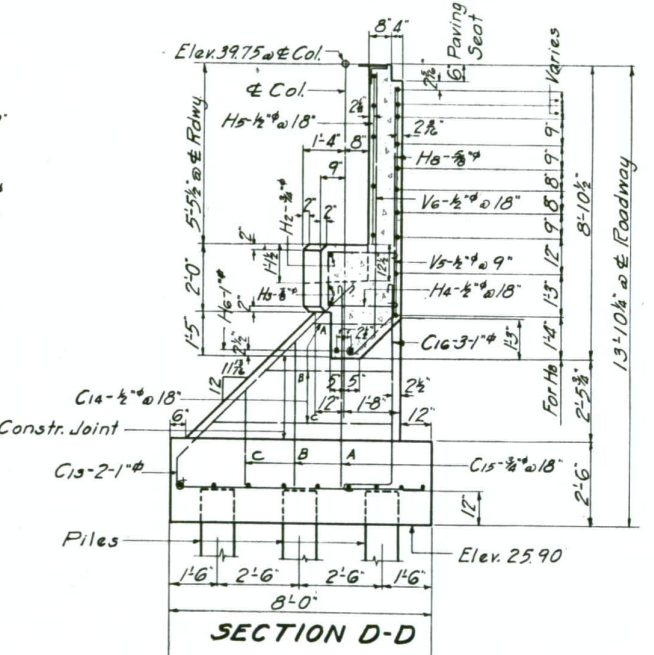
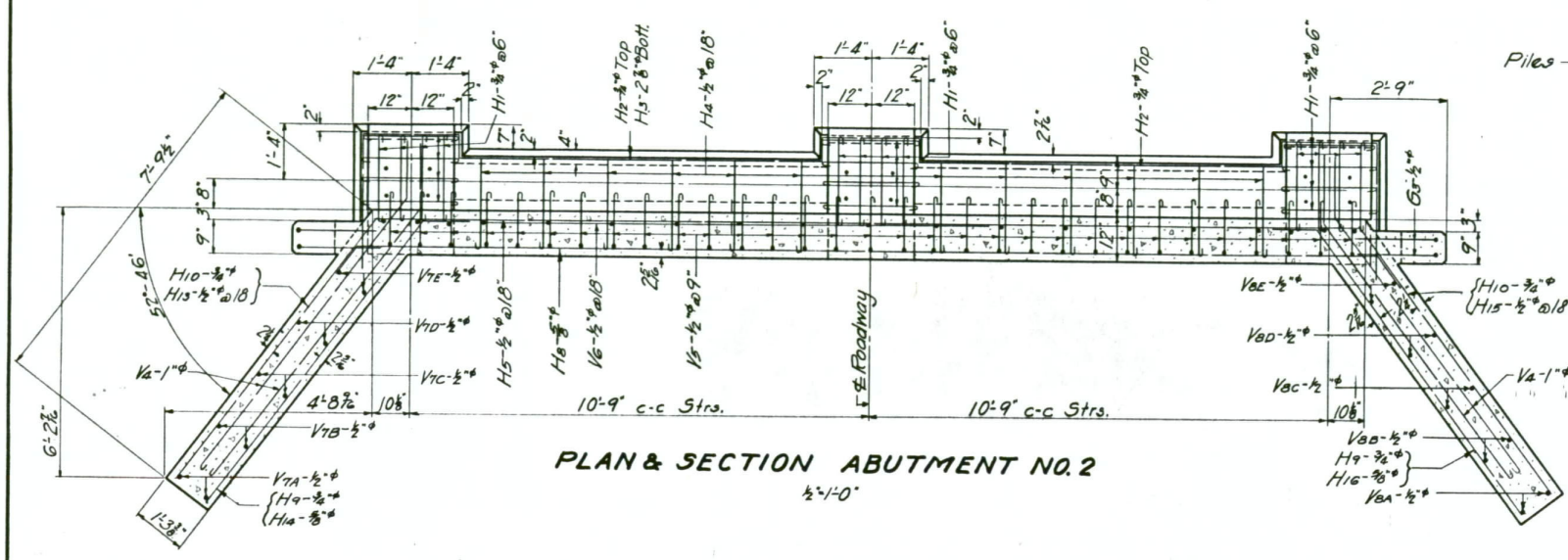
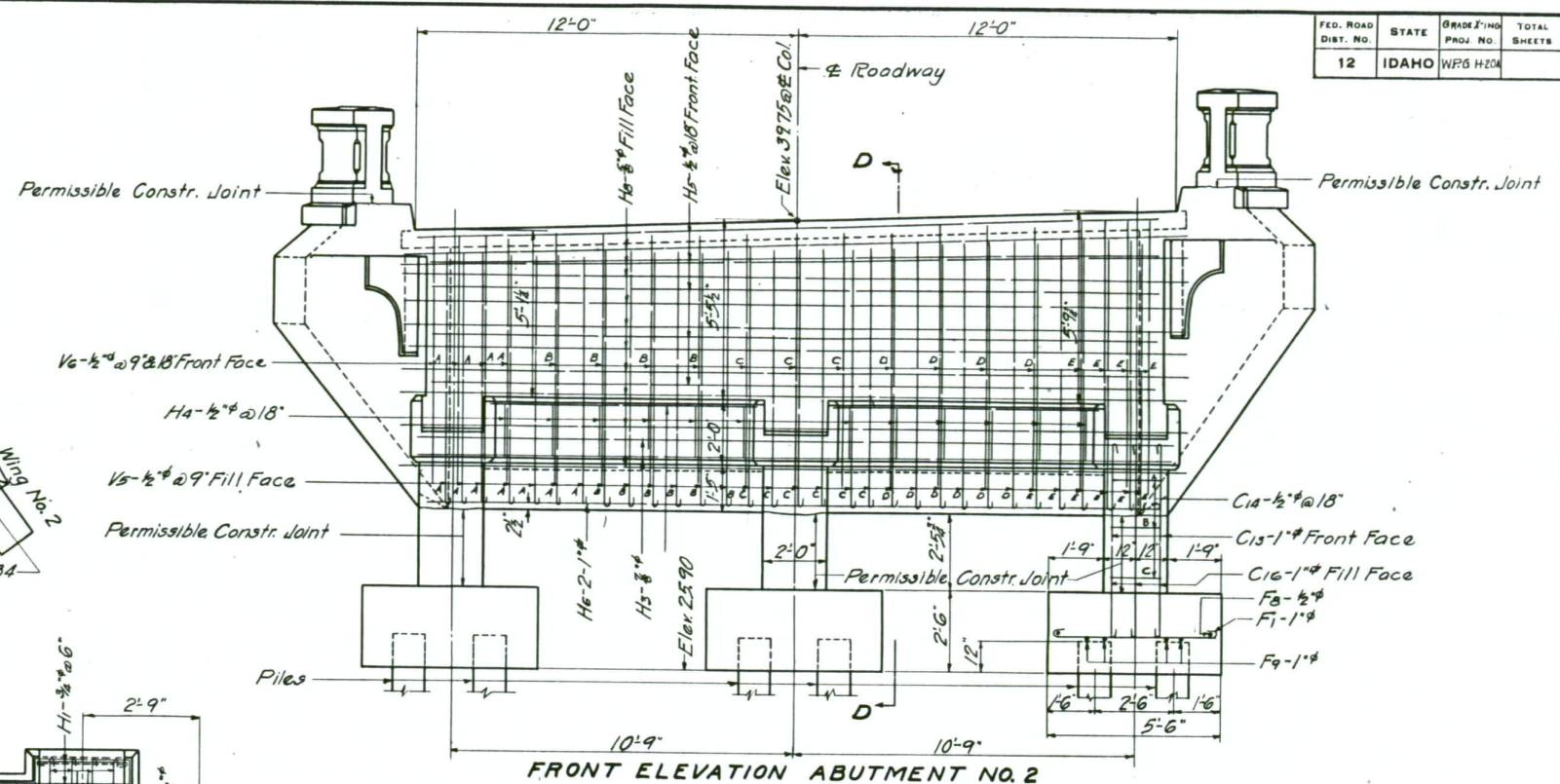
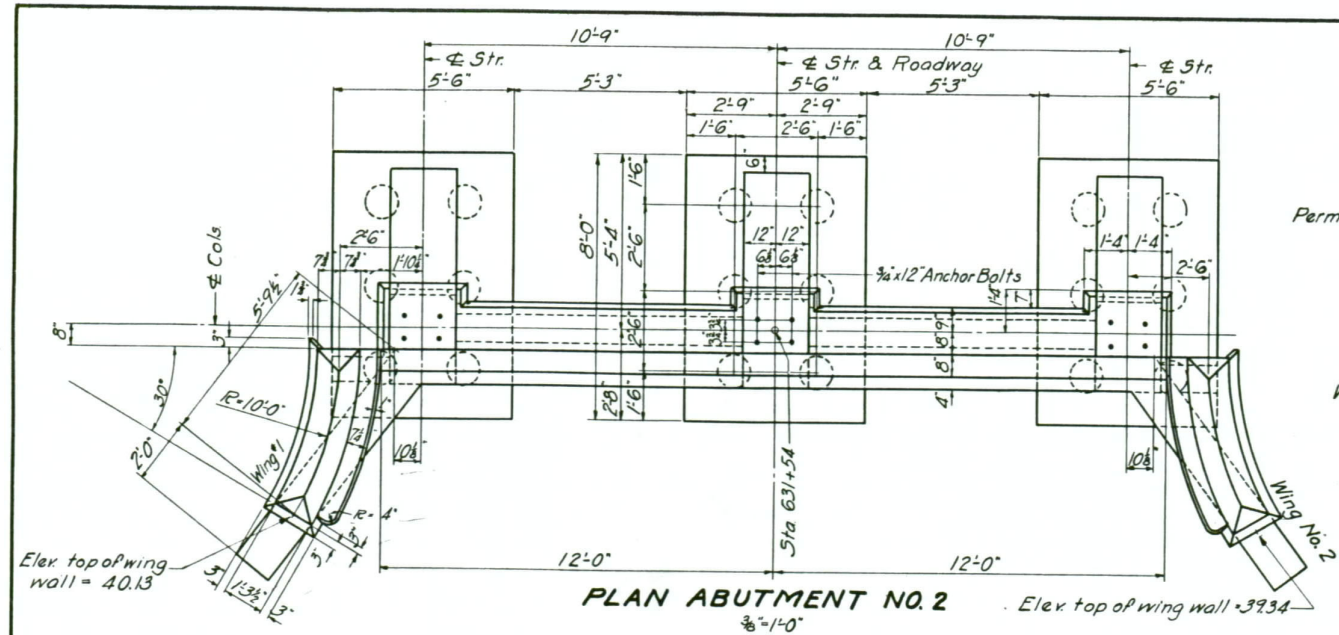


**DETAIL SHOWING LOCATION OF CONCRETE INSERTS**  
3/8" = 1'-0"

MICROFILM RECORD	AP-CARD or FRAME NO.
DATE	1/30/77
METRIC	1 2 3 4 5 6 7 8 9 10
INCHES	1 2 3 4

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.  
**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO  
 Scale: As Shown Designed by W.T.W.  
 Approved: [Signature] Checked by W.A.  
 Asst. Bridge Eng'r. Date 7-27-55  
**FILE NO. 6-A DRAWING NO. 67**

FED. ROAD DIST. NO.	STATE	ROAD PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	WPG H204		

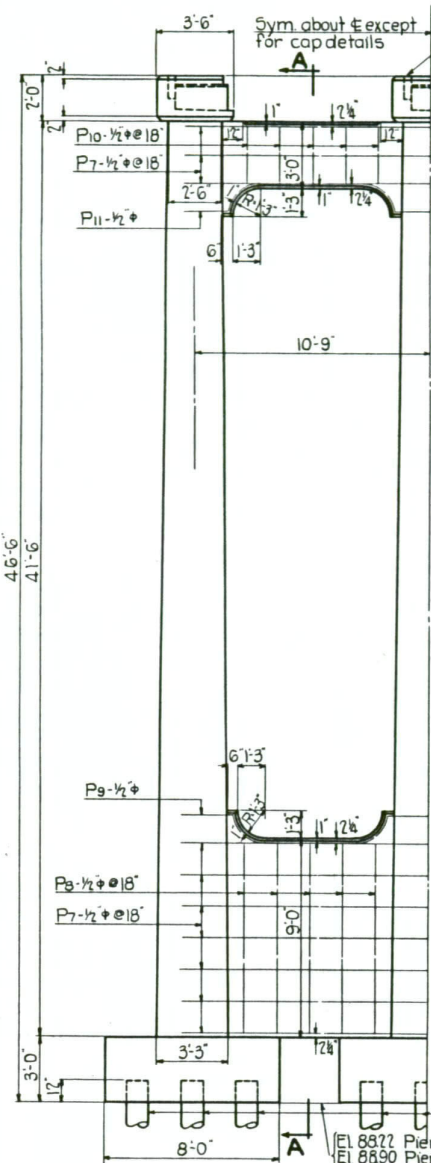


MICROFILM RECORD	AP-CARD or FRAME NO.	68
DATE	1/30/77	
METRIC	2 3 4 5 6 7 8 9 10	
INCHES	1 2 3	

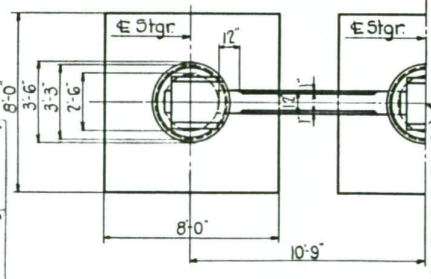
**NAPLES OVERHEAD & RING XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.  
**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO  
 Scale: As Shown  
 Designed by W.T.W.  
 Approved: [Signature]  
 Checked by W.A.  
 Ass't. Bridge Eng'r. Date 7-27-35  
**FILE NO. 6-A DRAWING NO. 68**

FED. ROAD DIST. NO.	STATE	Grade King PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	W-55 H-10-A		

Note:- See typical cap details for complete detail of caps and anchor bolt spacing.

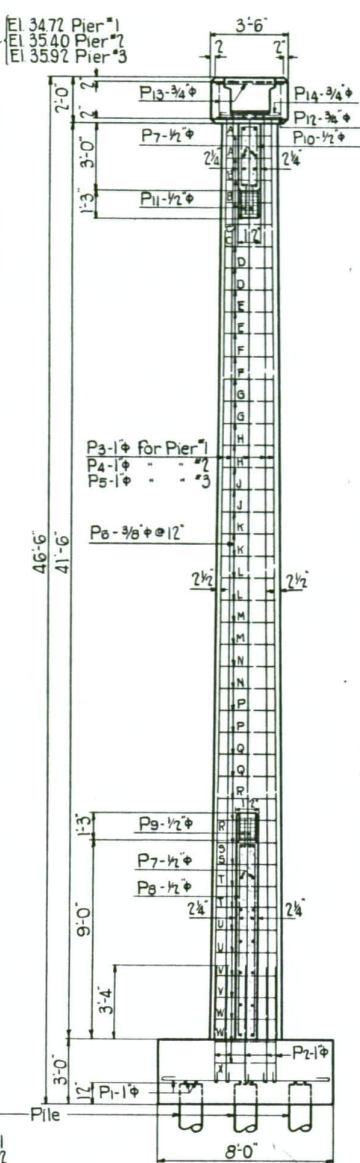


HALF ELEVATION

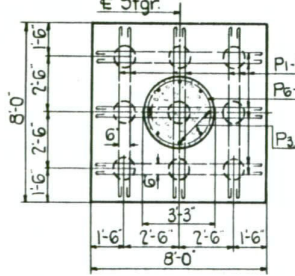


HALF PLAN  
Scale: 1/4"=1'-0"

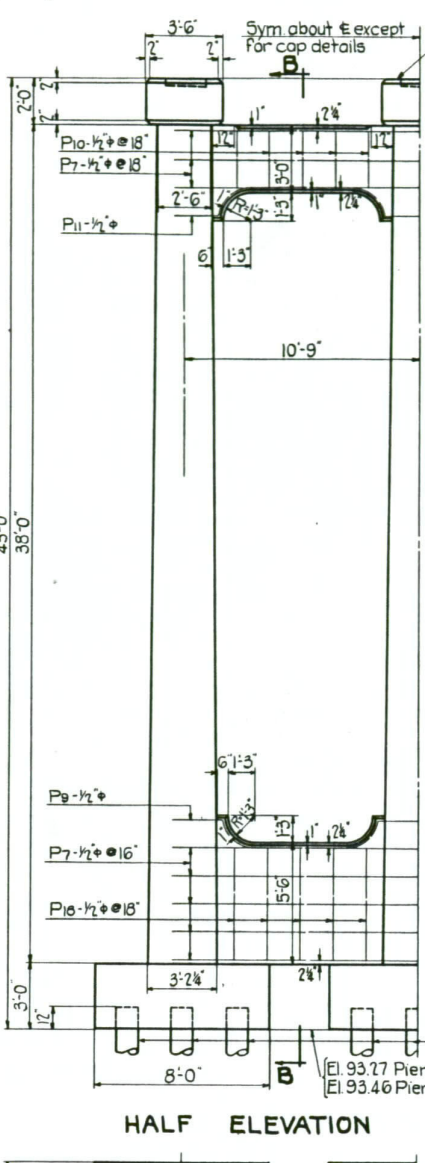
Piers Nos. 2 & 3 same as Pier No. 1 except for cap details.



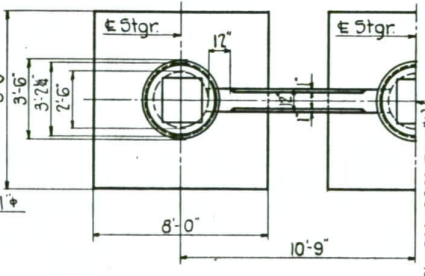
SECTION A-A



TYPICAL FOOTING PLAN FOR PIERS NOS. 1, 2 & 3  
Scale: 1/4"=1'-0"

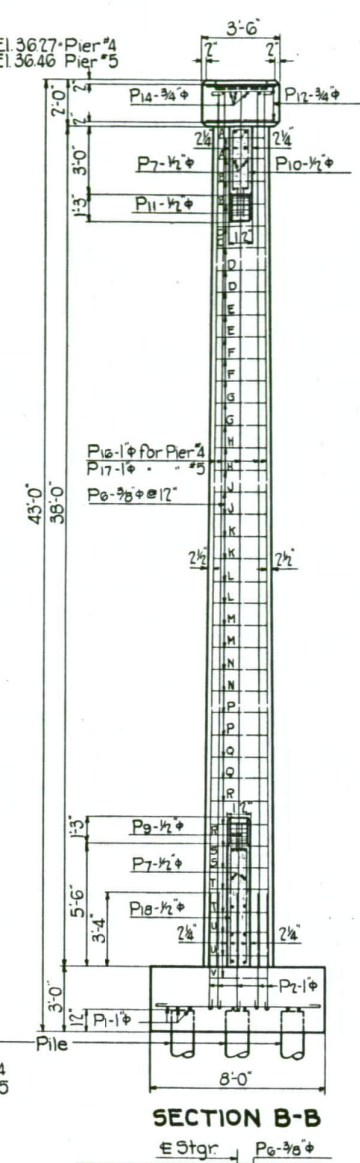


HALF ELEVATION

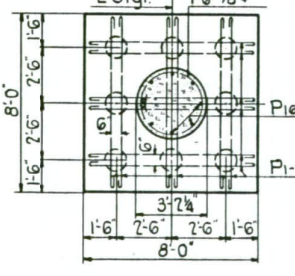


HALF PLAN  
Scale: 1/4"=1'-0"

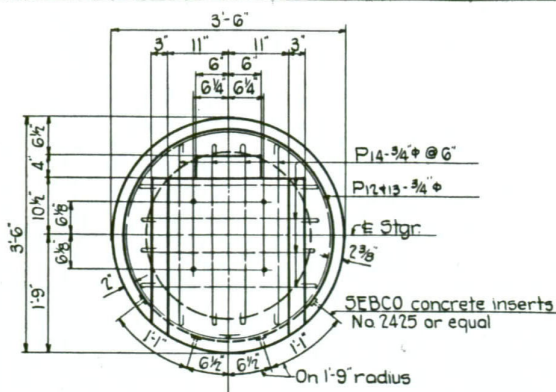
DETAILS OF PIER NO. 4  
Pier No. 5 same as Pier No. 4 except for cap details.



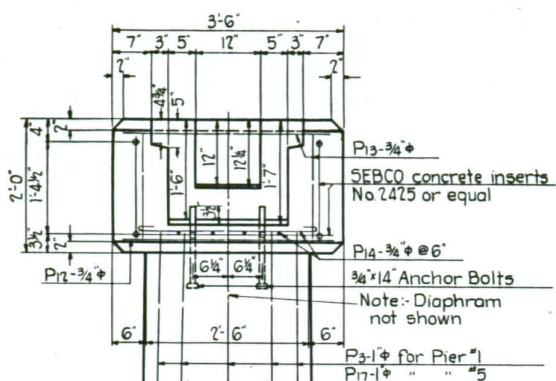
SECTION B-B



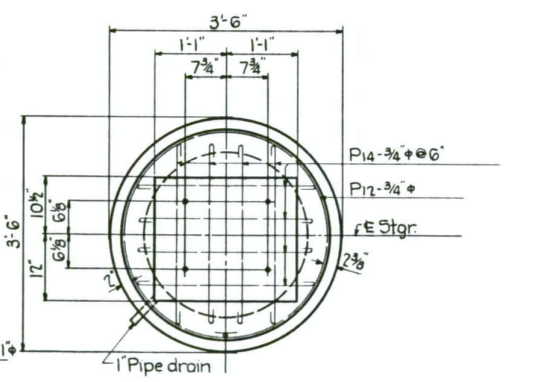
TYPICAL FOOTING PLAN FOR PIERS NOS. 4 & 5  
Scale: 1/4"=1'-0"



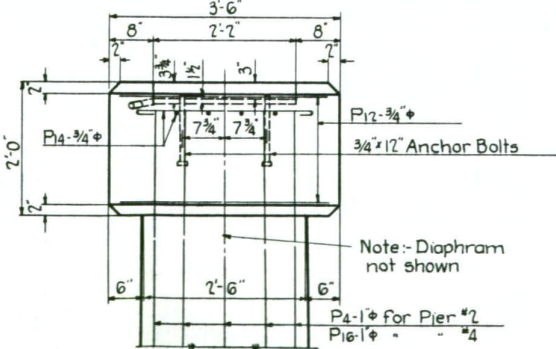
PLAN



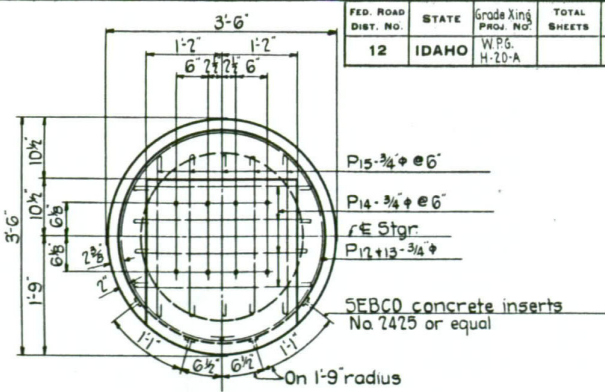
ELEVATION  
TYPICAL CAP DETAIL FOR PIERS NOS. 18 & 5  
Scale: 3/4"=1'-0"



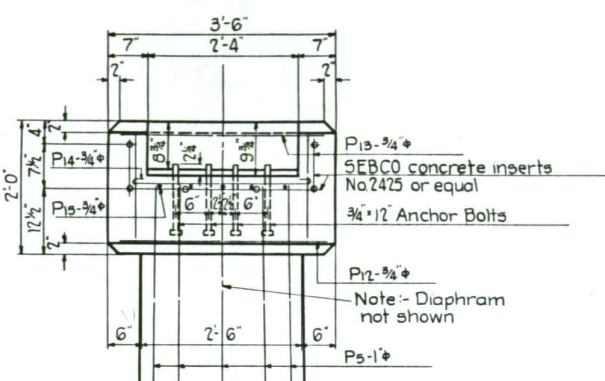
PLAN



ELEVATION  
TYPICAL CAP DETAIL FOR PIERS NOS. 2 & 4  
Scale: 3/4"=1'-0"



PLAN



ELEVATION  
TYPICAL CAP DETAIL FOR PIER NO. 3  
Scale: 3/4"=1'-0"

MICROFILM RECORD	AP-CARD or FRAME NO.
DATE	69
1/30/77	

METRIC	1	2	3	4	5	6	7	8	9	10
INCHES	1	2	3	4	5	6	7	8	9	10

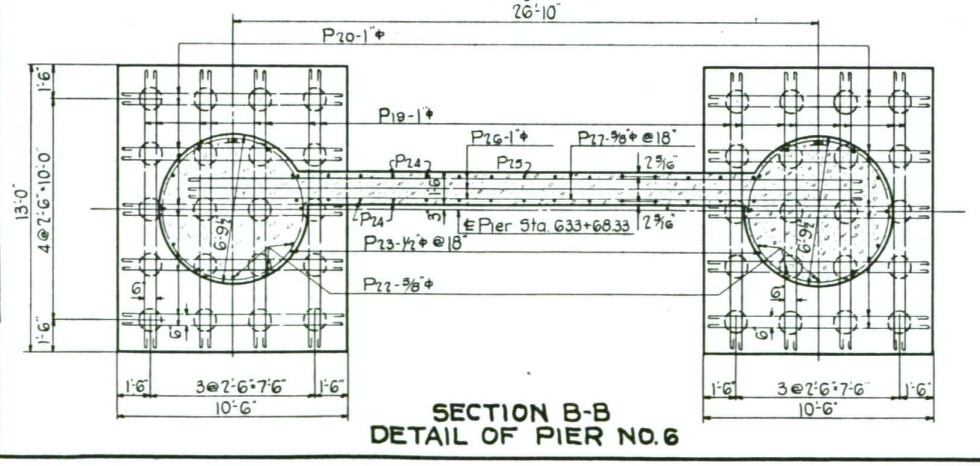
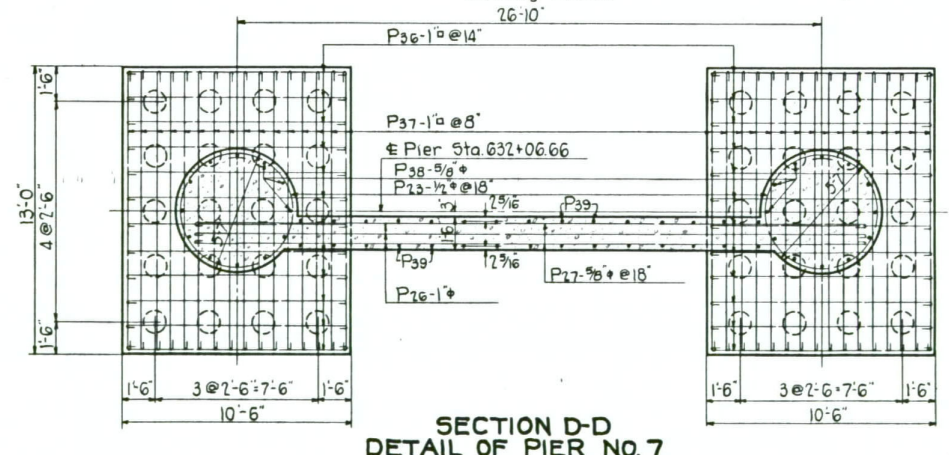
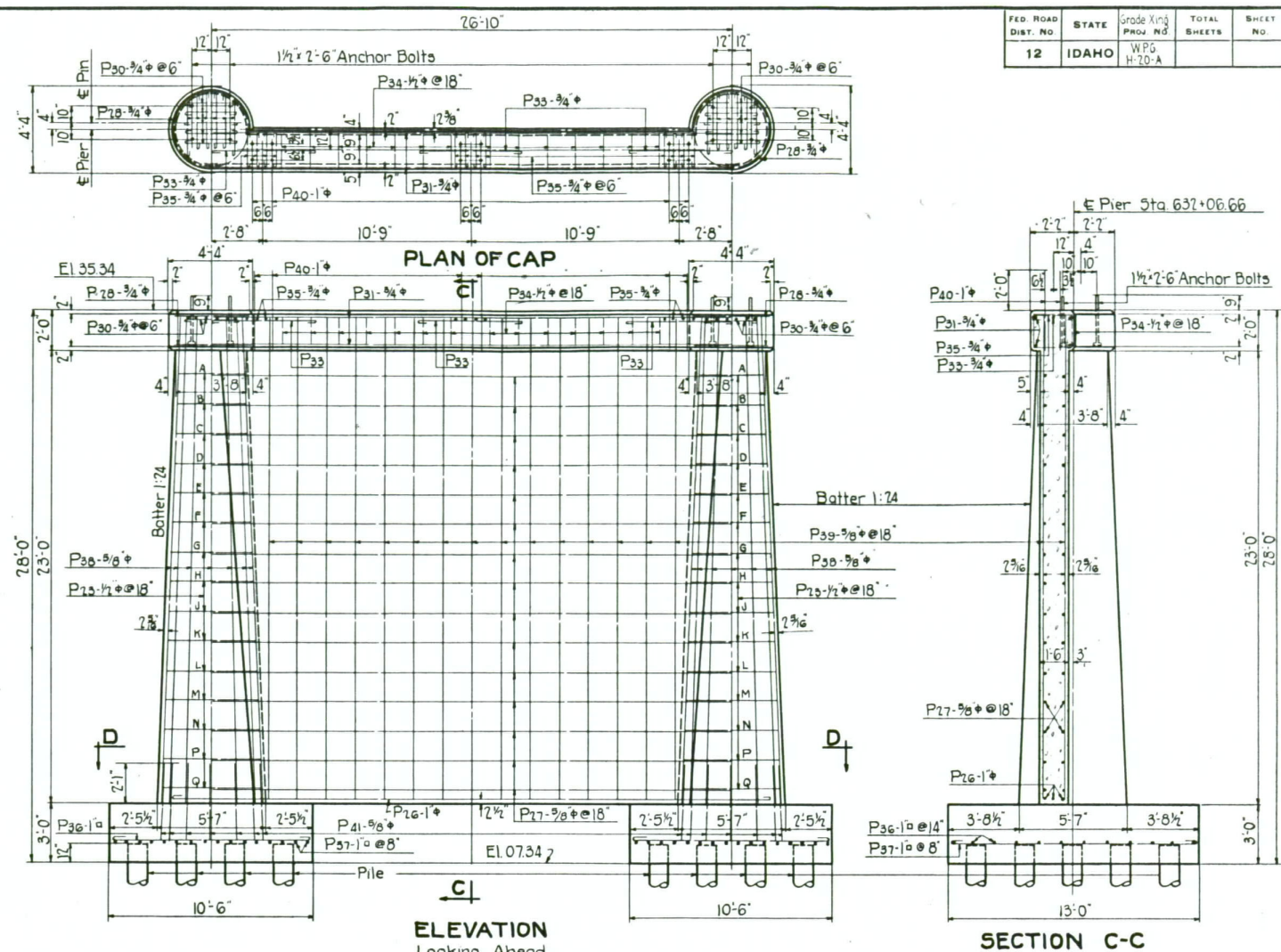
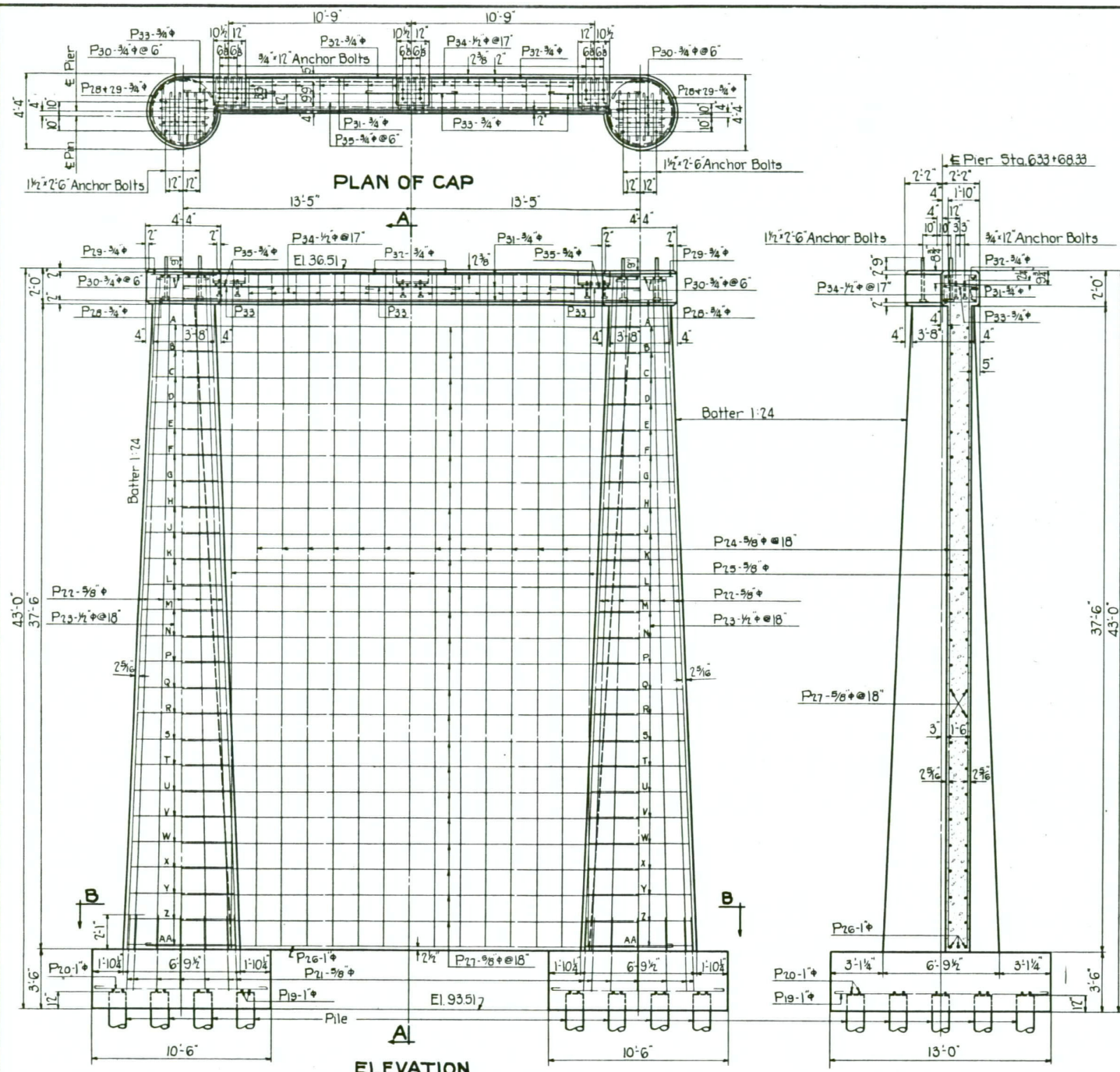
**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.

**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 1/4"=1'-0" Designed by C.T.L.  
 Approved: Checked by W.A.  
 Ass't. Bridge Eng'r. Date 7-27-55

FILE NO. 6-A DRAWING NO. 69

FED. ROAD DIST. NO.	STATE	Grade King PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	WPG H-20-A		



MICROFILM RECORD	ROLL NO.	AP-CARD or FRAME NO.
	1	70
DATE	1/30/77	
METRIC	2	3
	4	5
	6	7
	8	9
	10	
INCHES	1	2
	3	4

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.

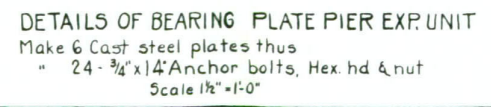
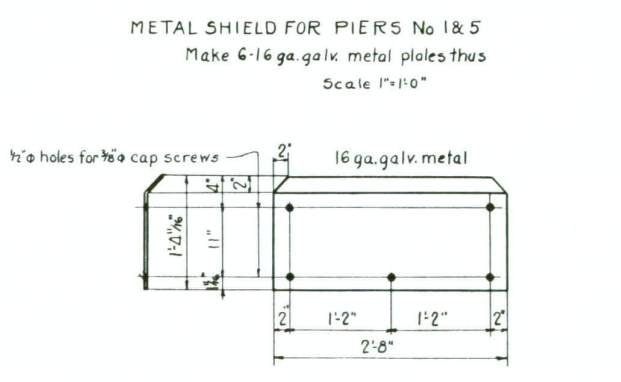
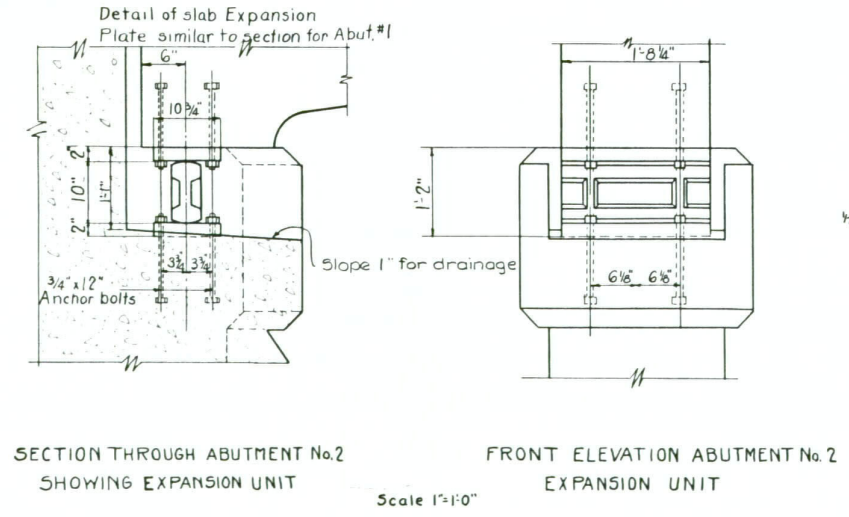
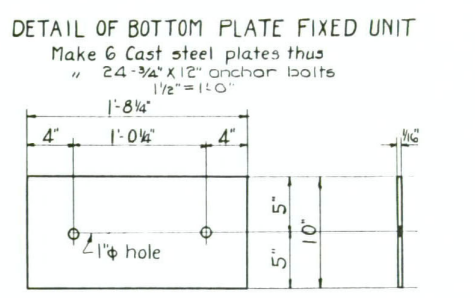
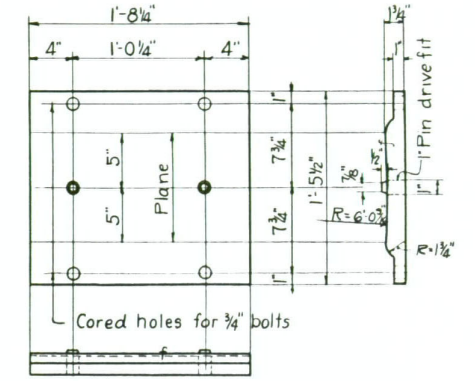
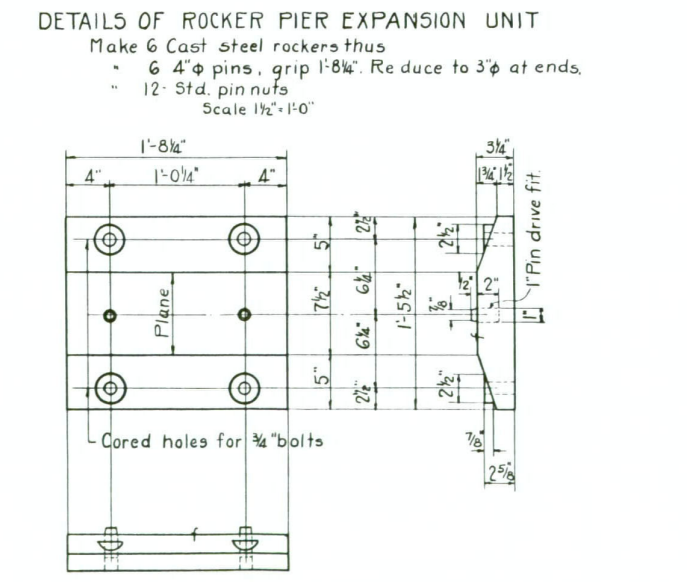
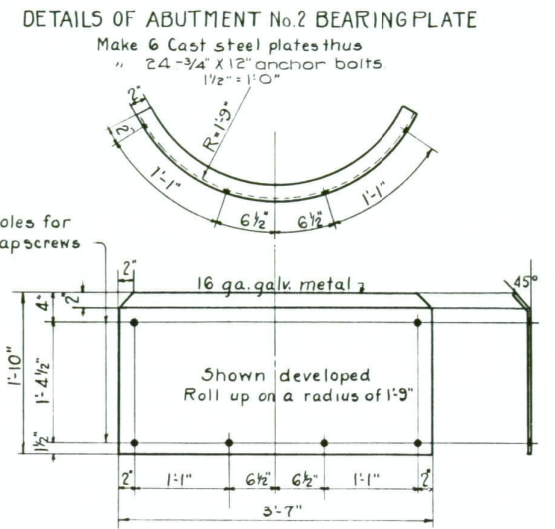
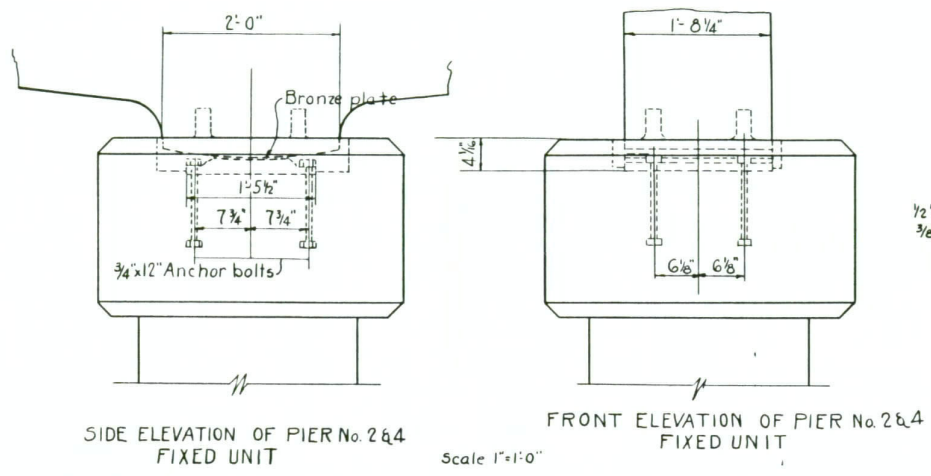
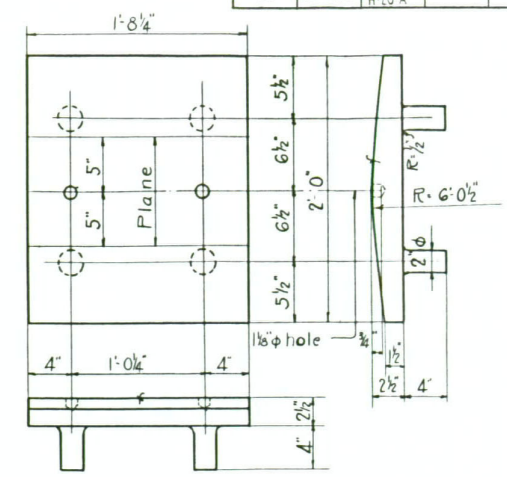
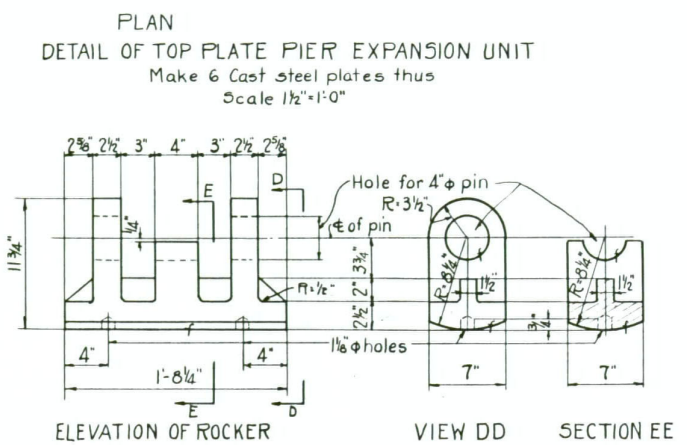
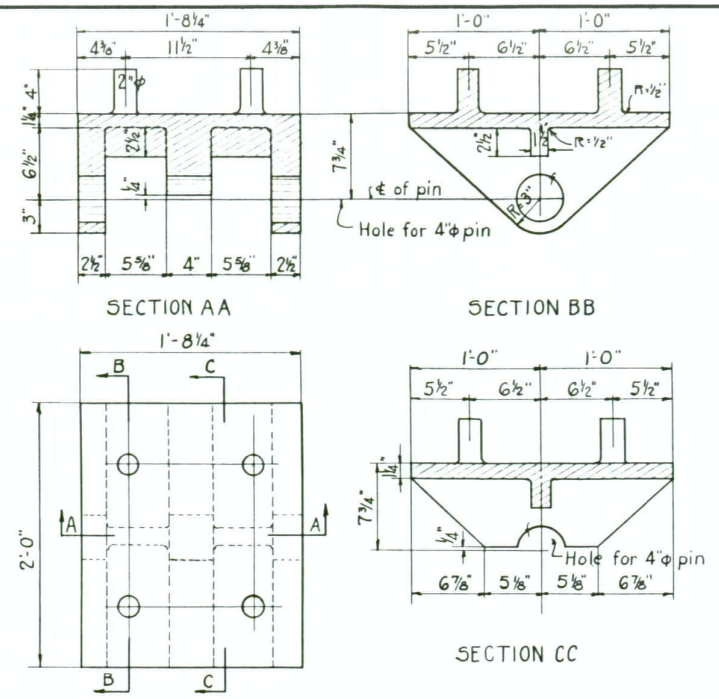
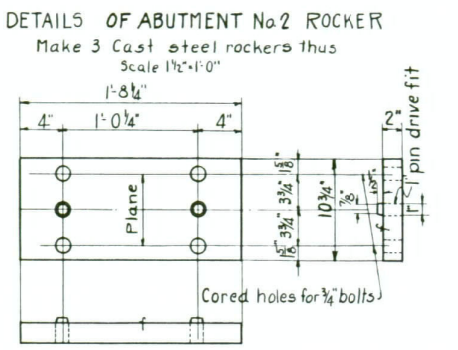
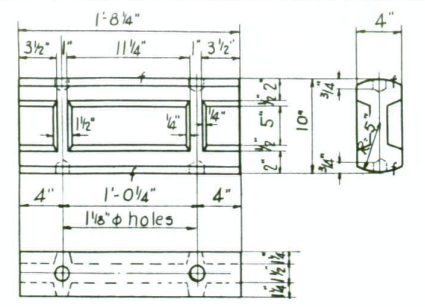
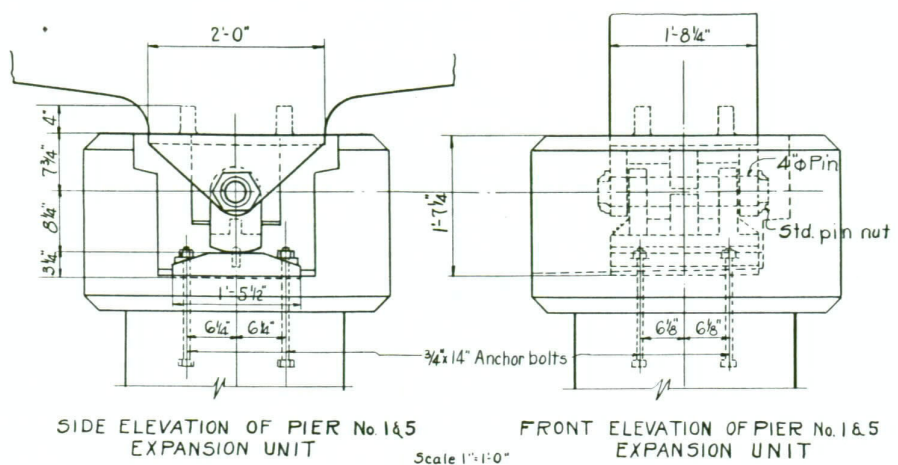
**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 1/4" = 1'-0"      Designed by C.T.L.  
 Approved:                      Checked by W.A.

*J. Ryan* Asst. Bridge Eng'r. Date 7-27-35

**FILE NO. 6-A DRAWING NO. 70**

FED. ROAD DIST. NO.	STATE	Grade King Proj. No.	TOTAL SHEETS	SHEET NO.
12	IDAHO	WPG H-20-A		



**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY BOUNDARY CO.

**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 1/2"=1'-0" Designed by J.R.  
 Approved: Checked by W.A.  
 Asst. Bridge Eng'r. Date

**FILE NO. 6-A DRAWING NO. 71**

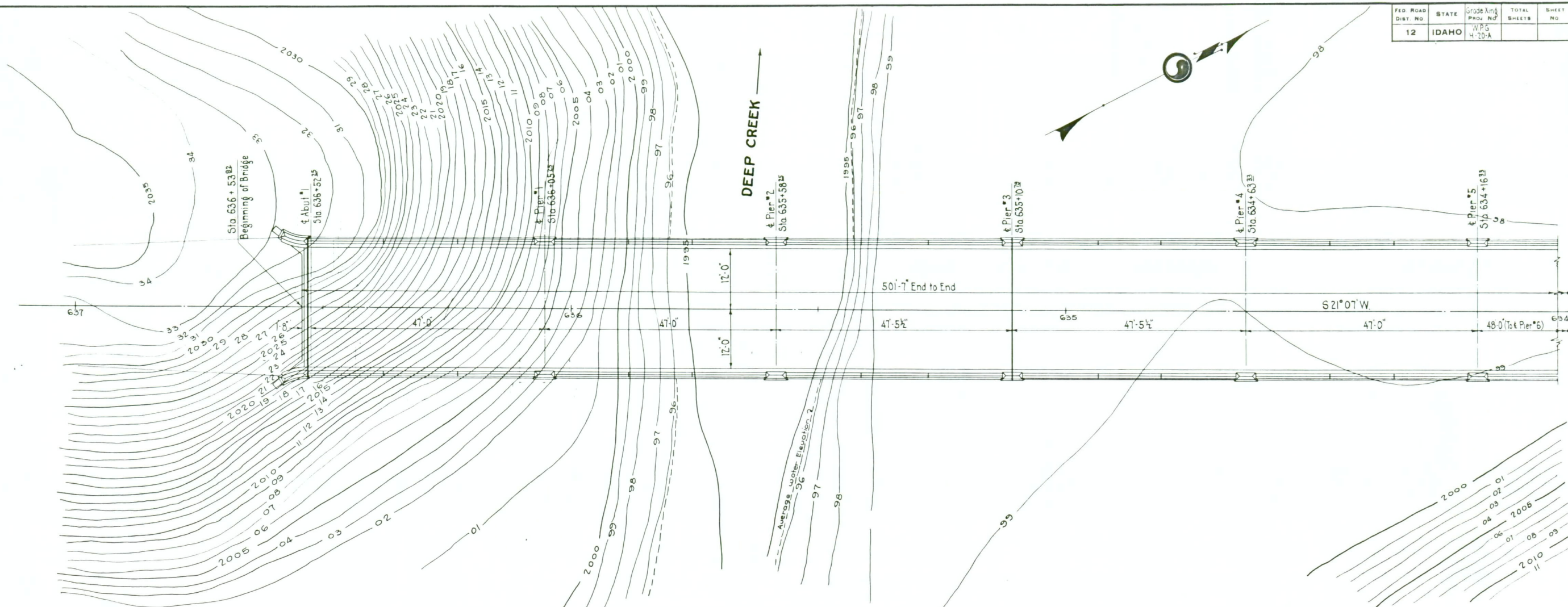
MICROFILM RECORD

DATE	ROLL NO.	AP-CARD or FRAME NO.
11/30/77	1	71

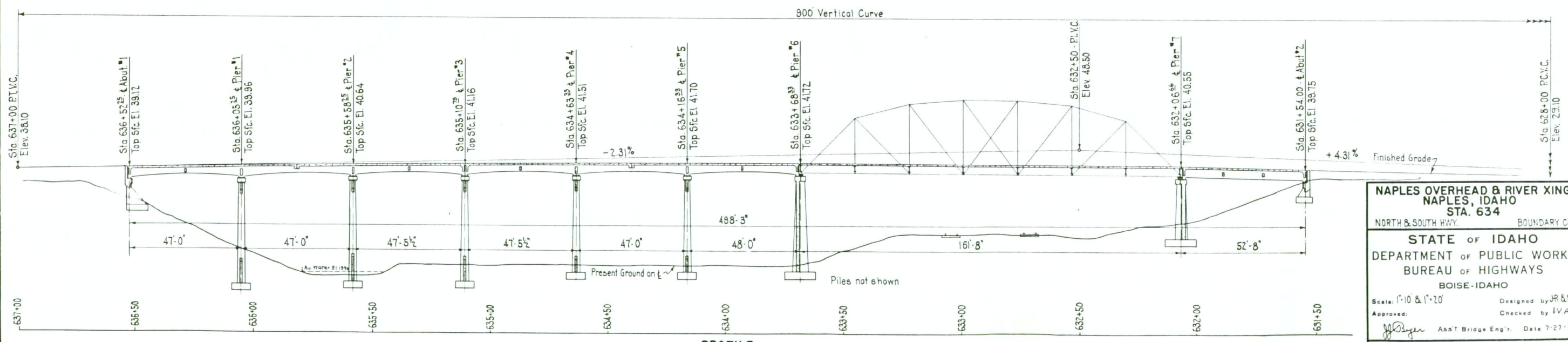
METRIC 2 3 4 5 6 7 8 9 10  
 INCHES 1 2 3 4



FED. ROAD DIST. NO.	STATE	Grade King PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	WPS 4-20-A		



CONTOUR MAP  
1"=10'



PROFILE  
1"=20'

**NAPLES OVERHEAD & RIVER KING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.

**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 1"=10' & 1"=20'  
 Approved: *J. J. Boyer* Ass't Bridge Eng'r. Date 7-27-35  
 Designed by JR & WB  
 Checked by IVA.

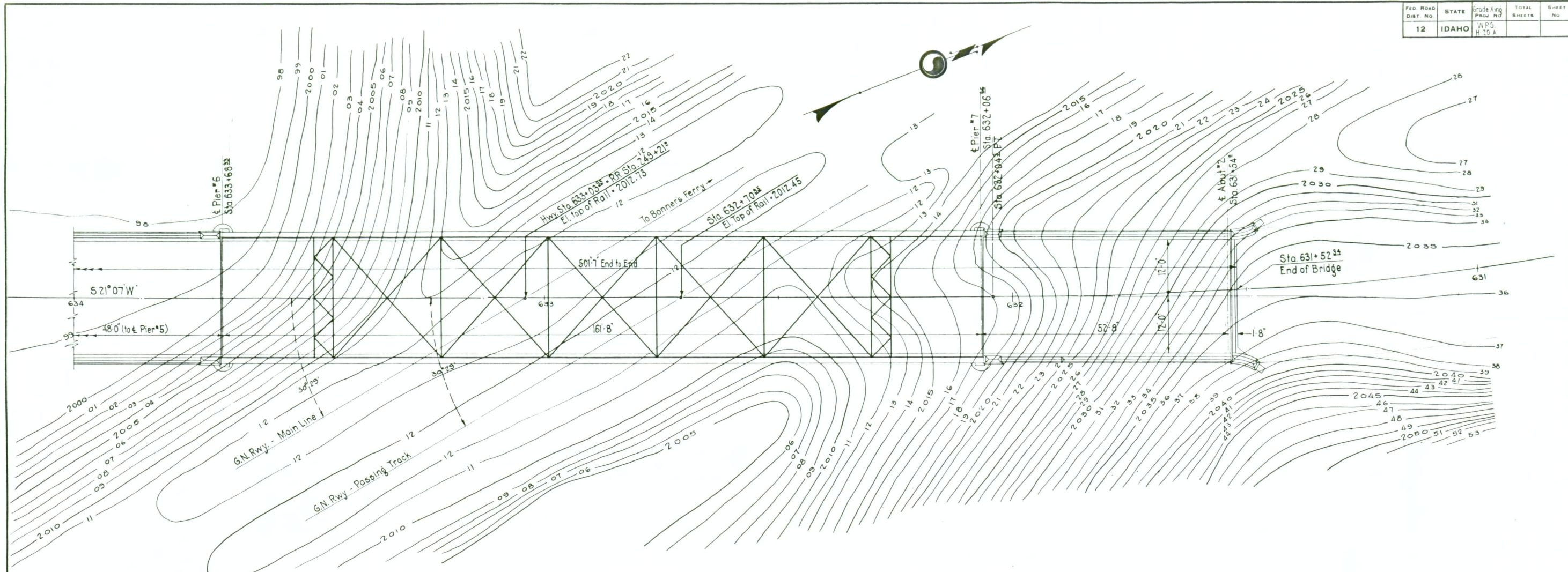
**FILE No. 6-A DRAWING No. 73**

FILM RECORD

DATE	ROLL NO.	AP-CARD #	FRAME NO.
1/30/77	1		73

METRIC 2 3 4 5 6 7 8 9 10  
 INCHES 1 2 3 4

FED. ROAD DIST. NO.	STATE	Scale and Proj. No.	TOTAL SHEETS	SHEET NO.
12	IDAHO	W.P.S. H. 10 &		



CONTOUR MAP  
1"=10'

DATE	1/30/77
ROLL NO.	1
AP-CARD or FRAME NO.	74
METRIC	2 3 4 5 6 7 8 9 10
INCHES	1 2 3 4

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY BOUNDARY CO.

**STATE OF IDAHO**  
 DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF HIGHWAYS  
 BOISE-IDAHO

Scale: 1"=10'      Designed by JR&WB  
 Approved:      Checked by W.A.  
*J.P. Ryan* Asst. Bridge Eng'r. Date 7-27-35

FILE NO. 6-A DRAWING NO. 74

FED. ROAD DIST. NO.	STATE	Grade King PROJ. NO.	TOTAL SHEETS	SHEET NO.
12	IDAHO	W.P.G. H-20-A		

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
F1	Footing Abut. #1 & 2	1" φ	6'-4"	57		5'-2"
F2	" Abut. #1	"	11'-4"	4		10'-2"
F3	" " "	1/2" φ	10'-2"	2		
F4	" " "	1" φ	9'-10"	4		8'-8"
F5	" " "	1/2" φ	8'-8"	2		
F6	" " "	"	5'-8"	2		
F7	" " "	1" φ	6'-10"	4		5'-8"
F8	" Abut. #2	1/2" φ	7'-8"	6		
F9	" " "	1" φ	8'-10"	12		7'-8"
C1	Column Abut. #1	1" □	20'-9"	4		
C2A	" " "	3/4" φ	18'-5 1/2"	2		18'-0"
C2B	" " "	"	14'-0 1/2"	2		
C2C	" " "	"	10'-11"	2		
C2D	" " "	"	7'-9 1/2"	2		
C2E	" " "	"	4'-8 1/2"	2		
C3A	" " "	1/2" φ	8'-9"	1		2'-4"
C3B	" " "	"	10'-2 1/2"	1		3'-0 3/8"
C3C	" " "	"	11'-7 3/4"	1		5'-9 3/8"
C3D	" " "	"	13'-1"	1		4'-6"
C3E	" " "	"	14'-6 1/2"	1		5'-2 1/2"
C3F	" " "	"	15'-11 3/4"	1		5'-11 3/8"
C3G	" " "	"	17'-5 1/2"	1		6'-8 1/8"
C3H	" " "	"	18'-10 1/2"	1		7'-4 3/8"
C3I	" " "	"	20'-4"	1		8'-1 1/2"
C3J	" " "	"	21'-9 3/4"	1		8'-9 3/8"
C4	" " "	1" □	21'-2"	2		20'-0"

Part of drawing no.75 Sheet 1 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
C5	Column Abut. #1	1" □	13'-5 1/2"	3		
C6A	" " "	3/4" φ	11'-2 1/2"	2		10'-9 1/2"
C6B	" " "	"	7'-11"	2		
C6C	" " "	"	6'-0"	2		
C6D	" " "	"	4'-1 3/4"	2		
C7A	" " "	1/2" φ	9'-10 1/4"	1		2'-10 3/8"
C7B	" " "	"	12'-2 1/2"	1		4'-0 3/8"
C7C	" " "	"	14'-6 3/4"	1		5'-2 3/8"
C7D	" " "	"	16'-11"	1		6'-5"
C7E	" " "	"	19'-3 1/2"	1		7'-7 1/4"
C8	" " "	1" □	14'-8 1/2"	2		
C9A	" " "	3/4" φ	3'-10"	2		
C9B	" " "	"	6'-3 1/2"	2		5'-10"
C10	" " "	1" □	8'-8"	3		
C11	" " "	1" □	8'-5 1/2"	2		
C12A	" " "	1/2" φ	11'-3"	1		3'-7"
C12B	" " "	1/2" φ	13'-9"	1		4'-10"

Part of drawing no.75 Sheet 2 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
C13	Column Abut. #2	1" □	9'-5"	6		
C14A	" " "	1/2" φ	9'-8"	3		2'-9 1/2"
C14B	" " "	"	12'-7 1/2"	3		4'-3 1/4"
C14C	" " "	"	15'-7"	3		5'-9"
C15A	" " "	3/4" φ	6'-6 1/2"	6		6'-1 1/2"
C15B	" " "	"	4'-6"	6		
C15C	" " "	"	3'-0"	6		
C16	" " "	1" □	8'-10"	9		
H1	Cap Abut. #1 & 2	3/4" φ	3'-2 1/2"	48		2'-4"
H2	" " "	3/4" φ	9'-8"	4		
H3	" " "	3/8" φ	32'-1 1/8"	4		
H4	" " "	1/2" φ	6'-7"	24		
H5	Backwall Abut. #1 & 2	1/2" φ	23'-0 1/2"	9		23'-2"
H6	" " "	1" □	24'-4"	4		
H8	" " "	3/8" φ	25'-10 1/8"	18		

Part of drawing no.75 Sheet 3 of 22

NAPLES OVERHEAD

Mark	Location	Size	Total Length	No.	Sketch	out to out
H9	Top of wing wall Abut. #1	3/4" φ	9'-3"	4		
H10	" " "	"	6'-11"	4		
H11A	Wing wall Abut. 1	3/8" φ	9'-10 1/2"	4		8'-2 1/2"
H11B	" " "	"	9'-3 1/2"	2		7'-7 1/2"
H11C	" " "	"	8'-4 1/2"	2		6'-8 1/2"
H11D	" " "	"	7'-3"	2		5'-7"
H11E	" " "	"	5'-8 1/2"	2		4'-0 1/2"
H11F	" " "	"	3'-9 1/2"	2		2'-1 1/2"
H12A	" " "	1/2" φ	7'-6 1/2"	2		
H12B	" " "	"	6'-2 1/2"	2		
H12C	" " "	"	4'-1 1/2"	2		
H12D	" " "	"	2'-1"	2		
H13A	Wing #1 Abut. 2	"	3'-0"	1		
H13B	" " "	"	4'-9 1/2"	1		
H13C	" " "	"	6'-6 1/2"	1		
H13D	" " "	"	7'-6 1/2"	1		
H14A	" " "	3/8" φ	3'-7"	1		1'-11"
H14B	" " "	"	5'-3"	1		3'-7"
H14C	" " "	"	6'-9"	1		5'-1"
H14D	" " "	"	7'-11 1/2"	1		6'-3 1/2"
H14E	" " "	"	9'-0 1/2"	1		7'-4 1/2"
H14F	" " "	"	9'-10 1/2"	3		8'-2 1/2"
H15A	" " "	1/2" φ	2'-4 1/2"	1		
H15B	" " "	"	4'-5"	1		
H15C	" " "	"	6'-5 1/2"	1		
H15D	" " "	"	7'-6 1/2"	1		

Part of drawing no.75 Sheet 4 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
H16A	Wing 2 Abut. 2	3/8" φ	3'-10"	1		2'-2"
H16B	" " "	"	5'-6 1/2"	1		3'-10 1/2"
H16C	" " "	"	6'-11"	1		5'-3"
H16D	" " "	"	8'-2 1/2"	1		6'-6 1/2"
H16E	" " "	"	9'-1 1/4"	1		7'-5 1/4"
H16F	" " "	"	9'-10 1/2"	3		8'-2 1/2"
V1	Backwall Abut. 1	1/2" φ	8'-8 1/4"	23		
V2	" Abut. 1	"	7'-2"	19		
V3A	Wing " "	"	16'-8 3/4"	4		
V3B	" " "	"	3'-8"	4		
V3C	" " "	"	5'-7 1/2"	4		
V3D	" " "	"	6'-8 1/2"	4		
V3E	" " "	"	6'-5 1/2"	4		
V4	Wing walls Abut. 1 & 2	1" φ	16'-2"	8		15'-0"
V5A	Backwall Abut. 2	1/2" φ	8'-8 1/2"	7		6'-7 1/2"
V5B	" " "	"	8'-10 1/2"	6		6'-9 1/2"
V5C	" " "	"	9'-0 1/4"	6		6'-11 1/4"
V5D	" " "	"	9'-2"	6		7'-1"
V5E	" " "	"	9'-3 1/2"	6		7'-2 1/4"

Part of drawing no.75 Sheet 5 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
V6A	Backwall Abut. #2	1/2" φ	7'-8"	4		
V6B	" " "	"	7'-9 1/4"	4		
V6C	" " "	"	7'-11 3/4"	3		
V6D	" " "	"	8'-1 1/2"	4		
V6E	" " "	"	8'-4"	4		
V7A	Wing 1 Abut. 2	"	17'-2"	2		
V7B	" " "	"	3'-9"	2		
V7C	" " "	"	5'-11"	2		
V7D	" " "	"	7'-1"	2		
V7E	" " "	"	6'-1"	2		
V8A	Wing 2 Abut. 2	"	16'-8 1/2"	2		
V8B	" " "	"	3'-8"	2		
V8C	" " "	"	5'-7 1/2"	2		
V8D	" " "	"	6'-8 1/2"	2		
V8E	" " "	"	6'-5 1/2"	2		

Part of drawing no.75 Sheet 6 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
P1	Footing Piers 1,2,3,4 & 5	1" φ	8'-10"	180		7'-8"
P2	" " "	"	5'-11"	120		5'-4"
P3	Column Pier 1	"	4'-9"	24		
P4	" " 2	"	43'-0"	24		
P5	" " 3	"	42'-6"	24		
P6A	Column Piers 1,2,3,4 & 5	3/8" φ	7'-8 1/4"	30		2'-2 1/4"
P6B	" " "	"	7'-9 3/4"	30		2'-3 3/8"
P6C	" " "	"	7'-11"	30		2'-3 3/8"
P6D	" " "	"	8'-0 1/2"	30		2'-4"
P6E	" " "	"	8'-2"	30		2'-4 7/8"
P6F	" " "	"	8'-3 1/2"	30		2'-4 7/8"
P6G	" " "	"	8'-4 1/2"	30		2'-5 1/4"
P6H	" " "	"	8'-6"	30		2'-5 3/4"
P6I	" " "	"	8'-7 1/4"	30		2'-6 1/4"
P6J	" " "	"	8'-8 3/4"	30		2'-6 3/8"
P6K	" " "	"	8'-10"	30		2'-7 1/8"
P6L	" " "	"	8'-11 1/2"	30		2'-7 1/2"
P6M	" " "	"	9'-0 1/4"	30		2'-7 5/8"
P6N	" " "	"	9'-2 1/4"	30		2'-8 3/8"
P6O	" " "	"	9'-3 1/2"	30		2'-8 3/4"
P6P	" " "	"	9'-5"	30		2'-9 1/4"
P6Q	" " "	"	9'-6 1/2"	30		2'-9 3/4"
P6R	" " "	"	9'-7 1/2"	30		2'-10 1/8"
P6S	" " "	"	9'-9"	30		2'-10 3/8"
P6T	" " "	"	9'-10 1/2"	24		2'-11"
P6U	" " "	"	9'-11 1/2"	18		2'-11 1/8"
P6V	Column Piers 1,2 & 3	1/2" φ	22'-6"	92		
P6X	" " "	"	10'-0 1/2"	9		2'-11 3/8"
P7	Diaph. Piers 1,2,3,4 & 5	1/2" φ	22'-6"	92		

Part of drawing no.75 Sheet 7 of 22

OFFICE RECORD  
 DATE 1/30/77  
 ROLL NO. 75  
 METRIC 2 3 4 5 6 7 8 9 10  
 INCHES 1 2 3 4

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY BOUNDARY CO.

**STATE of IDAHO**  
 DEPARTMENT of PUBLIC WORKS  
 BUREAU of HIGHWAYS  
 BOISE-IDAHO

Scale: None  
 Approved: [Signature]  
 Aast. Bridge Eng'r. Date 8-16-55

Designed by LFR  
 Checked by MVB

**FILE NO. 6-A DRAWING NO. 75**

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
P8	Diaph. Pier 1, 2 & 3	1/2" φ	18'-0"	30		
P9	" " " "	"	25'-0"	10		
P10	" " " "	"	6'-0"	50		
P11	" " " "	"	25'-0"	10		
P12	Caps - Piers 1, 2, 3, 4 & 5	3/8" φ	10'-9"	21		
P13	Caps - Piers 1, 3 & 5	"	9'-6 1/2"	9		
P14	Caps - Piers 1, 2, 3, 4 & 5	"	3'-7 1/2"	106		2'-9"
P15	Caps - Pier 3	"	3'-3 1/2"	15		2'-5"
P16	Column Pier 4	1" φ	39'-6"	24		
P17	" " 5	"	38'-3"	24		
P18	Diaph. Pier 4 & 5	1/2" φ	11'-0"	20		

Part of drawing no. 76

Sheet 8 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
P19	Footing - Pier 6	1" φ	13'-10"	16		12'-8"
P20	" " "	"	11'-4"	20		10'-2"
P21	" " "	3/8" φ	4'-7"	24		
P22	Column Pier 6	"	39'-4"	24		
P23A	" Pier 6 & 7	1/2" φ	11'-8 1/2"	4		3'-5 1/2"
P23B	" " "	"	12'-1 1/2"	4		3'-7 1/2"
P23C	" " "	"	12'-6 1/2"	4		3'-8 3/4"
P23D	" " "	"	12'-11"	4		3'-10 1/2"
P23E	" " "	"	13'-3 1/2"	4		3'-11 3/4"
P23F	" " "	"	13'-8 1/2"	4		4'-1 1/2"
P23G	" " "	"	14'-1"	4		4'-2 1/2"
P23H	" " "	"	14'-5 1/2"	4		4'-4 1/2"
P23J	" " "	"	14'-10 1/2"	4		4'-5 3/4"
P23K	" " "	"	15'-3 1/2"	4		4'-7 1/2"
P23L	" " "	"	15'-8"	4		4'-8 1/2"
P23M	" " "	"	16'-0 1/2"	4		4'-10 1/2"
P23N	" " "	"	16'-5 1/2"	4		4'-11 1/2"
P23P	" " "	"	16'-10"	4		5'-1 1/2"
P23Q	" " "	"	17'-2 1/2"	4		5'-2 1/2"
P23R	Column Pier 6	"	17'-7 1/2"	2		5'-4 1/2"
P23S	" " "	"	18'-0 1/2"	2		5'-5 1/2"
P23T	" " "	"	18'-5"	2		5'-7 1/2"
P23U	" " "	"	18'-9 1/2"	2		5'-8 3/4"
P23V	" " "	"	19'-2 1/2"	2		5'-10 1/2"
P23W	" " "	"	19'-7"	2		5'-11 1/4"
P23X	" " "	"	19'-11 1/2"	2		6'-1 1/4"
P23Y	" " "	"	20'-4"	2		6'-2 3/4"
P23Z	" " "	"	20'-9 1/2"	2		6'-4 1/4"
P23AA	" " "	"	21'-2"	2		6'-5 3/4"

Part of drawing no. 76

Sheet 9 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
P24	Diaph. Pier 6	3/8" φ	39'-2"	24		
P25	" " "	"	38'-4"	6		
P26	" Piers 6 & 7	1" φ	32'-0"	6		30'-10"
P27	" " "	3/8" φ	26'-10"	78		
P28	Cap	3/4" φ	13'-4 1/2"	6		
P29	" Pier 6	"	12'-2"	2		
P30	" Piers 6 & 7	"	3'-9"	44		2'-10 1/2"
P31	" " "	"	26'-10"	9		
P32	" Pier 6	"	8'-5"	2		
P33	" Piers 6 & 7	"	6'-3"	6		5'-4 1/2"
P34	" " "	1/2" φ	8'-0 1/2"	28		
P35	" " "	3/4" φ	2'-11"	24		2'-0 1/2"
P36	Footing Pier 7	1" φ	11'-4"	24		10'-2"
P37	" " "	"	13'-10"	32		12'-8"
P38	Column	3/8" φ	24'-10"	24		
P39	Diaph.	"	24'-8"	30		
P40	Cap	1" φ	4'-0"	12		
P41	Footing	3/8" φ	4'-1"	24		

Part of drawing no. 76

Sheet 10 of 22

NAPLES OVERHEAD

Mark	Location	Size	Total Length	No.	Sketch	out to out
B1	Stgrs. Span 1, 3, 4 & 6	1 1/4" □	55'-8 1/2"	60		
B2	Out. Stgrs. Span 1, 3, 4 & 6	"	40'-0"	24		
B3	do	"	29'-5 1/2"	16		
B4	do	"	19'-9"	8		
B5	Stgrs. Spans 2 & 5	"	39'-10"	30		
B6	Out. Stgrs. over Piers	"	41'-7"	16		
B7	do	"	32'-1 1/2"	16		
B8	do	"	27'-3"	16		
B9	do	"	20'-11 1/2"	16		
B10	Stgrs. Spans 1, 3, 4, 6 & 8	3/4" φ	9'-3 1/2"	54		
B11	" over Piers	"	8'-0"	72		
B12	Stgrs. over Abut & Pier 6	"	5'-6 1/2"	6		
B13	Stgrs. Over Piers	"	6'-10 1/2"	12		

Part of drawing no. 76

Sheet 11 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
B14	Ctr. Stgr. Spans 1, 3, 4 & 6	1 1/4" □	41'-4"	12		
B15	do	"	31'-5 1/2"	8		
B16	do	"	22'-9 1/2"	8		
B17	Ctr. Stgr. Spans 2 & 5	"	26'-0 1/2"	4		
B18	Ctr. Stgr. Spans 1-6 Incl.	"	42'-9"	8		
B19	do	"	33'-2"	8		
B20	do	"	24'-3 1/2"	8		
B21	do	"	21'-6 1/2"	8		
B22	Stgrs. Spans 3 & 4	3/4" φ	4'-7 1/2"	6		
B23	Stgrs. Span 8	1 1/4" □	53'-9 1/2"	15		52'-4"
B24	" " "	"	43'-10"	9		39'-2 1/4"
B25	" " "	"	52'-6 1/2"	6		47'-8 1/2"
B26	" " "	"	55'-1 1/2"	9		
B27	" " "	3/4" φ	10'-0"	18		

Part of drawing no. 76

Sheet 12 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
ST1A	0.5 Str. Span 1, 3, 4 & 6	3/8" φ	7'-6"	8		2'-7 1/2"
ST1B	do	"	7'-4 1/2"	8		2'-6 3/4"
ST2A	do	"	9'-3 1/2"	8		3'-6 3/8"
ST2B	do	"	8'-10"	8		3'-3 1/2"
ST2C	do	"	8'-5"	8		3'-1"
ST2D	do	"	8'-1 1/2"	8		2'-11 1/4"
ST2E	do	"	7'-10 1/2"	8		2'-9 3/8"
ST2F	do	"	7'-10 1/2"	8		2'-9 3/8"
ST2G	do	"	7'-11 1/2"	8		2'-10 3/8"
ST2H	do	"	8'-1 1/2"	8		2'-11 1/8"
ST2J	do	"	8'-3"	8		3'-0"
ST2K	do	"	8'-5 1/2"	8		3'-1 1/8"
ST3A	do	"	11'-3"	8		4'-6"
ST3B	do	"	11'-0"	8		4'-4 1/2"
ST3C	do	"	10'-9"	8		4'-3"
ST3D	do	"	10'-6"	8		4'-1 1/2"
ST3E	do	"	10'-3 1/2"	8		4'-0 1/8"
ST3F	do	"	10'-0 1/2"	8		3'-10 3/8"
ST3G	do	"	9'-7"	8		3'-8"
ST3H	do	"	9'-1 1/2"	8		3'-5 1/8"
ST3J	do	"	8'-9"	8		3'-3"
ST3K	do	"	8'-5 1/2"	8		3'-1 1/8"
ST3L	do	"	8'-5"	8		3'-1"
ST3M	do	"	8'-6 1/2"	8		3'-1 3/8"
ST3N	do	"	8'-8"	8		3'-2 1/2"
ST3P	do	"	8'-10"	8		3'-3 1/2"
ST3Q	do	"	9'-0 1/2"	8		3'-4 3/8"
ST3R	do	"	9'-1 1/2"	8		3'-5 1/4"
ST3S	do	"	9'-2 1/2"	8		3'-5 3/4"

Part of drawing no. 76

Sheet 13 of 22

NAPLES OVERHEAD W.P.G. H20A

Mark	Location	Size	Total Length	No.	Sketch	out to out
ST3T	0.5 Str. Span 1, 3, 4 & 6	3/8" φ	9'-3 1/2"	8		3'-6 1/2"
ST3U	do	"	9'-4 1/2"	8		3'-6 3/8"
ST3V	do	"	9'-6"	8		3'-7 1/2"
ST3W	do	"	9'-7 1/2"	8		3'-8 1/8"
ST3X	do	"	9'-8 1/2"	8		3'-8 3/4"
ST3Y	do	"	9'-9 1/2"	8		3'-9 3/8"
ST3Z	do	"	9'-11"	8		3'-10"
ST3AA	do	"	10'-0 1/2"	8		3'-10 3/8"
ST3BB	do	"	10'-1 1/2"	8		3'-11 3/8"
ST3CC	do	"	10'-3"	8		4'-0"
ST3DD	do	"	10'-4 1/2"	8		4'-0 3/4"
ST3EE	do	"	10'-6"	8		4'-1 1/2"
ST3FF	do	"	10'-7 1/2"	8		4'-2 1/4"
ST3GG	do	"	10'-8 1/2"	8		4'-2 3/8"
ST3HH	do	"	10'-10"	8		4'-3 1/2"
ST3JJ	do	"	10'-11 1/2"	8		4'-4 1/4"
ST3KK	do	"	11'-1"	8		4'-5"

MICROFILM RECORD  
 DATE 1/30/77  
 ROLL NO. AP-CARD or FRAME NO. 77  
 METRIC 2 3 4 5 6 7 8 9 10  
 INCHES 1 2 3 4

**NAPLES OVERHEAD W.P.G. H20A**

Mark	Location	Size	Total Length	No.	Sketch	out to out
ST4L	Q.S Stringers Span 2&5	5/8"φ	9'-10 1/2"	4	3'-9 3/4"	
ST4M	do	"	9'-8 1/2"	4	3'-8 3/8"	
ST4N	do	"	9'-7"	4	3'-8"	
ST4P	do	"	9'-5 1/2"	4	3'-7 1/2"	
ST4Q	do	"	9'-4"	4	3'-6 1/2"	
ST4R	do	"	9'-2 1/2"	4	3'-5 3/8"	
ST4S	do	"	9'-0 3/4"	4	3'-4 3/8"	
ST4T	do	"	8'-11 1/4"	4	3'-4 1/8"	
ST4U	do	"	8'-9 1/2"	4	3'-3 1/4"	
ST4V	do	"	8'-8 1/4"	4	3'-2 7/8"	
ST4W	do	"	8'-6 3/4"	4	3'-1 7/8"	
ST4X	do	"	8'-5 3/4"	4	3'-1 3/8"	
ST4Y	do	"	8'-5"	4	3'-1"	
ST4Z	do	"	8'-4 1/2"	4	3'-0 3/4"	
ST5A	Ctr. Str. Spans 1,3,4&6	"	7'-9 1/4"	4	2'-9 3/8"	
ST5B	do	"	7'-7 1/4"	4	2'-8 3/8"	
ST6A	do	"	9'-10"	4	3'-9 1/2"	
ST6B	do	"	9'-5 3/4"	4	3'-7 3/8"	
ST6C	do	"	9'-1 1/4"	4	3'-5 1/8"	
ST6D	do	"	8'-8 3/4"	4	3'-2 3/8"	
ST6E	do	"	8'-4 3/4"	4	3'-0 3/8"	
ST6F	do	"	8'-1 3/4"	4	2'-11 3/8"	
ST6G	do	"	8'-1 1/4"	4	2'-11 1/8"	
ST6H	do	"	8'-2 3/4"	4	2'-11 3/8"	
ST6J	do	"	8'-4"	4	3'-0 1/2"	
ST6K	do	"	8'-5 1/2"	4	3'-1 1/4"	
ST6L	do	"	8'-7 1/4"	4	3'-2 1/8"	
ST6M	do	"	8'-9"	4	3'-3"	
ST6N	do	5/8"φ	8'-11"	4	3'-4"	

Part of drawing no. 77 Sheet 15 of 22

**NAPLES OVERHEAD W.P.G. H20A**

Mark	Location	Size	Total Length	No.	Sketch	out to out
ST7A	Ctr. Str. Span 1,3,4 & 6	5/8"φ	11'-5"	4	4'-7"	
ST7B	do	"	11'-2 1/4"	4	4'-5 3/8"	
ST7C	do	"	10'-11 1/2"	4	4'-4 1/4"	
ST7D	do	"	10'-8 3/4"	4	4'-2 3/8"	
ST7E	do	"	10'-6 1/4"	4	4'-1 3/8"	
ST7F	do	"	10'-1 3/4"	4	3'-11 3/8"	
ST7G	do	"	9'-9 1/2"	4	3'-9 1/4"	
ST7H	do	"	9'-4 1/2"	4	3'-6 3/4"	
ST7J	do	"	9'-0 1/4"	4	3'-4 3/8"	
ST7K	do	"	8'-8 1/2"	4	3'-2 3/4"	
ST7L	do	"	8'-6 1/4"	4	3'-2 1/8"	
ST7M	do	"	8'-9 1/4"	4	3'-3 1/8"	
ST7N	do	"	8'-10 3/4"	4	3'-3 3/8"	
ST7P	do	"	9'-0 1/4"	4	3'-4 3/8"	
ST7Q	do	"	9'-2 1/4"	4	3'-5 3/8"	
ST7R	do	"	9'-4"	4	3'-6 1/2"	
ST7S	do	"	9'-6"	4	3'-7 1/2"	
ST7T	do	"	9'-7 1/4"	4	3'-8 1/8"	
ST7U	do	"	9'-8 1/4"	4	3'-8 3/8"	
ST7V	do	"	9'-9 1/4"	4	3'-9 1/8"	
ST7W	do	"	9'-10 1/4"	4	3'-9 3/8"	
ST7X	do	"	9'-11 1/2"	4	3'-10 1/4"	
ST7Y	do	"	10'-0 3/4"	4	3'-10 3/8"	
ST7Z	do	"	10'-2"	4	3'-11 1/2"	
ST7AA	do	"	10'-3 1/4"	4	4'-0 1/8"	
ST7BB	do	"	10'-4 1/2"	4	4'-0 3/8"	
ST7CC	do	"	10'-6"	4	4'-1 1/2"	
ST7DD	do	"	10'-7 1/4"	4	4'-2 1/8"	
ST7EE	do	"	10'-8 1/2"	4	4'-2 3/4"	

Part of drawing no. 77 Sheet 16 of 22

**NAPLES OVERHEAD W.P.G. H20A**

Mark	Location	Size	Total Length	No.	Sketch	out to out
ST7FF	Ctr. Str. Spans 1,3,4 & 6	5/8"φ	10'-9 3/4"	4	4'-3 3/4"	
ST7GG	do	"	10'-11"	4	4'-4"	
ST7HH	do	"	11'-0 1/2"	4	4'-4 1/4"	
ST7JJ	do	"	11'-1 3/4"	4	4'-5 1/8"	
ST7KK	do	"	11'-3 1/4"	4	4'-6 1/8"	
ST7LL	do	"	11'-4 1/2"	4	4'-6 3/4"	
ST7MM	do	"	11'-6"	4	4'-7 1/2"	
ST7NN	do	"	11'-7 1/2"	4	4'-8 1/4"	
ST8A	Ctr. Str. Spans 2 & 5	"	8'-3 3/4"	2	3'-0 3/8"	
ST8B	do	"	8'-2"	2	2'-11 1/2"	
ST8C	do	"	11'-6 1/4"	2	4'-7 3/8"	
ST8D	do	"	11'-4 1/2"	2	4'-6 3/8"	
ST8E	do	"	11'-3 1/4"	2	4'-6 1/8"	
ST8F	do	"	11'-1 1/2"	2	4'-5 1/8"	
ST8G	do	"	11'-0"	2	4'-4 1/2"	
ST8H	do	"	10'-10 1/4"	2	4'-3 3/8"	
ST8I	do	"	10'-8 3/4"	2	4'-2 3/8"	
ST8J	do	"	10'-6"	2	4'-1 1/2"	
ST8K	do	"	10'-4 1/2"	2	4'-0 3/4"	
ST8L	do	"	10'-3"	2	4'-0"	
ST8M	do	"	10'-1 1/2"	2	3'-11 1/4"	
ST8N	do	"	10'-0 1/4"	2	3'-10 3/8"	
ST8P	do	"	9'-10 3/4"	2	3'-9 3/8"	
ST8Q	do	"	9'-9 1/2"	2	3'-9 1/8"	
ST8R	do	"	9'-8"	2	3'-8 3/8"	
ST8S	do	"	9'-6 3/4"	2	3'-7 3/8"	
ST8T	do	"	9'-5 1/4"	2	3'-7 1/8"	
ST8U	do	5/8"φ	9'-4"	2	3'-6 1/2"	

Part of drawing no. 77 Sheet 17 of 22

**NAPLES OVERHEAD**

Mark	Location	Size	Total Length	No.	Sketch	out to out
ST8V	Ctr. Str. Spans 2 & 5	5/8"φ	9'-2 1/4"	2	3'-5 3/8"	
ST8W	do	"	9'-1 1/2"	2	3'-5 1/8"	
ST8X	do	"	9'-0 1/4"	2	3'-4 3/8"	
ST8Y	do	"	8'-11"	2	3'-4"	
ST8Z	do	"	8'-8 3/4"	2	3'-2 3/8"	
ST8AA	do	5/8"φ	8'-7 1/4"	2	3'-2 1/8"	
ST10	Const. Jt. Bms Spans 2&5	1/2"φ	4'-11"	52	1'-9 1/4"	
ST11A	End Bm. Abut. 1 & 2	"	7'-2 1/2"	24	2'-11"	
ST11B	"	"	6'-2 1/2"	24	2'-5"	
ST11C	" Piers 3,6&7	"	5'-2 1/2"	24	1'-11"	
ST11D	"	1/2"φ	4'-8 1/2"	84	1'-8"	
ST12	Span 8 All Stringers	5/8"φ	10'-2 1/4"	15	3'-11 3/8"	
ST13	do	"	10'-8 1/4"	42	4'-2 3/8"	
ST14	do	5/8"φ	11'-2 1/4"	84	4'-5 3/8"	
D1	Int. Diaph. Spans 1,3,4&6	1/2"φ	2'-7"	48	1'-1 1/4"	
D2	" Spans 1,3,4,6&8	"	22'-10"	28		
D3	End Beams	"	4'-5"	24	1'-6"	
D4	"	"	6'-10"	12	2'-3"	
D5	Diaph. over Piers 1,2,4&5	"	5'-9"	48	2'-7 1/2"	
D6	do	1/2"φ	22'-10"	24		

Part of drawing no. 77 Sheet 18 of 22

**NAPLES OVERHEAD W.P.G. H20A**

Mark	Location	Size	Total Length	No.	Sketch	out to out
D7	Int Diaph. Span 8	1/2"φ	3'-7"	24	1'-7 3/4"	
G1	Post Brackets	"	6'-4 3/4"	56		
G2	Typical Brackets	"	5'-8"	116		
G3	End Brackets	1/2"φ	6'-5 1/4"	8		
S1	Slab Spans 1,2,3,4,5,6&8	3/4"φ	28'-11 1/2"	352		27'-2"

Part of drawing no. 77 Sheet 19 of 22

**NAPLES OVERHEAD W.P.G. H20A**

Mark	Location	Size	Total Length	No.	Sketch	out to out
S2	Slab Spans 1,2,3,4,5,6&8	3/4"φ	28'-0 1/2"	710		27'-2"
S3	End Beams & Const. Jt. Beams	1"φ	28'-4"	20		27'-2"
S4	do	1"φ	24'-0"	20		22'-10"
T1	Slab Spans 1,2,3,4,5 & 6	1/2"φ	48'-4"	132		
T4	Slab Span 8	1/2"φ	52'-4"	22		
S6	Slab Span 7	3/4"φ	26'-9 3/4"	191		24'-10"
S5	do	3/4"φ	25'-8 1/2"	289		24'-10"
S7	do	3/4"φ	27'-4"	93		
T2	do	1/2"φ	23'-3"	48		
T3	do	1/2"φ	22'-8"	120		
RIA	Rail Span 1	"	14'-11"	8		
RIb	"	"	14'-8"	8		
RIc	" Spans 1,2,3,4&5	"	33'-11"	24		
RI0	" 2,3,4,5&6	"	12'-8"	40		
RIE	" 3&4	"	16'-9"	16		
RIF	" 5&6	"	32'-9 1/2"	8		
RI6	" Span 6	"	18'-0"	8		
RIH	" 8	"	20'-1 1/2"	8		
RIJ	"	"	15'-8"	8		
RIK	"	"	15'-10 1/2"	8		
R2	Rail Spans 1,2,3,4,5 & 6	"	48'-4"	60		
R2A	" Span 8	"	52'-4"	10		
R3	" Spans 1,2,3,4,5,6&8	1/2"φ	4'-7"	612		4'-3"

Part of drawing no. 77 Sheet 20 of 22

**NAPLES OVERHEAD W.P.G. H20A**

Mark	Location	Size	Total Length	No.	Sketch	out to out
R4	Rail Spans 1,2,3,4,5,6&8	1/2"φ	2'-7 1/2"	476		
R5	Rail Posts	"	4'-0"	48		3'-4"
RSa	" Spans 3 & 4	"	2'-0 1/2"	16		1'-4 1/2"
R6	Rail Posts	"	10'-5 1/4"	60		
R7	Rail End Posts	"	12'-8 1/4"	8		
R8	do	"	11'-6 1/4"	8		
R9	do	"	8'-8"	8		
R10	do	1/2"φ	7'-7"	4		

Part of drawing no. 77 Sheet 21 of 22

**ROD HOOKS & BENDS**

**ROD NOTES**

When hooks are called for the lengths given in the "Total Length" column include an allowance for hooks as shown in detail above.

Lengths given in sketches are center to center of bend points and to outside of hooks.

Bars shown with square bends shall be bent on a radius of 1 diam. as shown above.

All reinforcing steel shall be deformed bars of structural grade and shall conform to A.S.T.M. Specs. Series Des. A15-30

**ROD WEIGHTS**

Size	Lineal Ft.	Wt./Ft.	Total Wt.
1/2"φ	1,249.50	0.167	208.67
3/8"φ	5,480.13	0.376	2,060.59
1/2"φ	37,511.99	0.668	21,717.99
3/4"φ	15,118.71	1.043	15,768.81
1"φ	48,516.60	1.502	72,871.94
1 1/4"φ	12,115.54	5.313	64,369.81
Total Weight Pounds			207,856.82

**NAPLES OVERHEAD & RIVER XING**  
**NAPLES, IDAHO**  
**STA. 634**  
 NORTH & SOUTH HWY. BOUNDARY CO.

**STATE OF IDAHO**  
**DEPARTMENT OF PUBLIC WORKS**  
**BUREAU OF HIGHWAYS**  
 BOISE-IDAHO

Scale: None  
 Approved: [Signature] Ass't. Bridge Eng'r. Date 8-16-35  
 Designed by JHR.  
 Checked by MWS

Sheet 22 of 22  
 Rev. 8-30-45  
**FILE NO. 6-A DRAWING NO. 77**