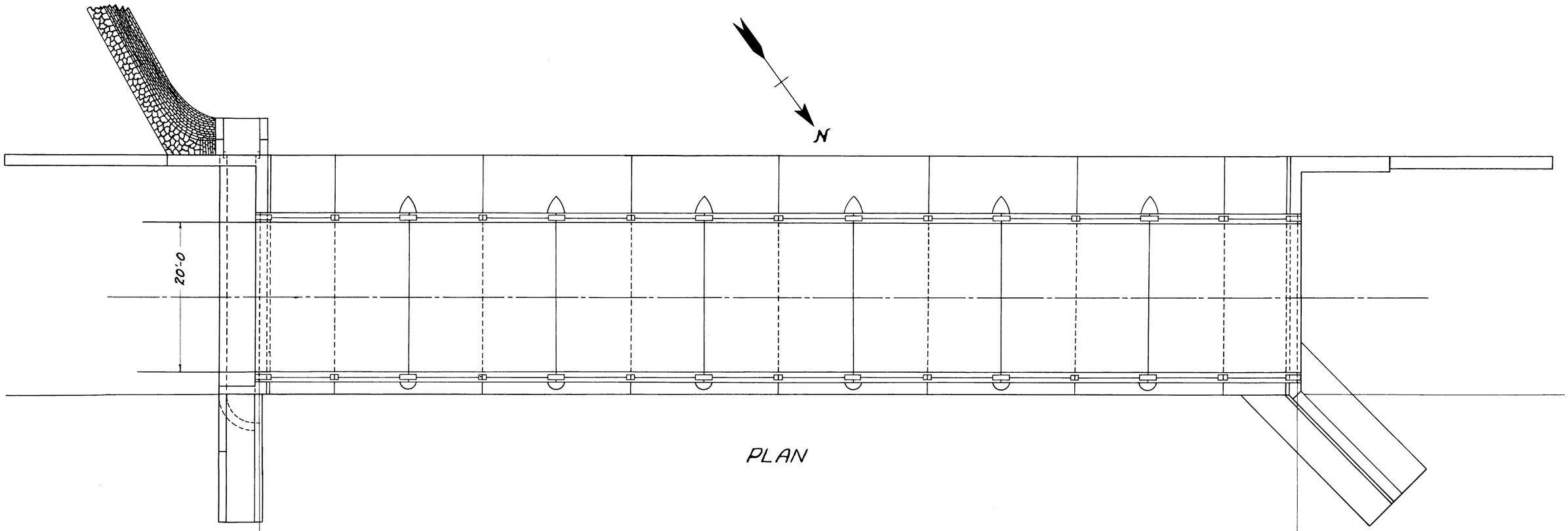
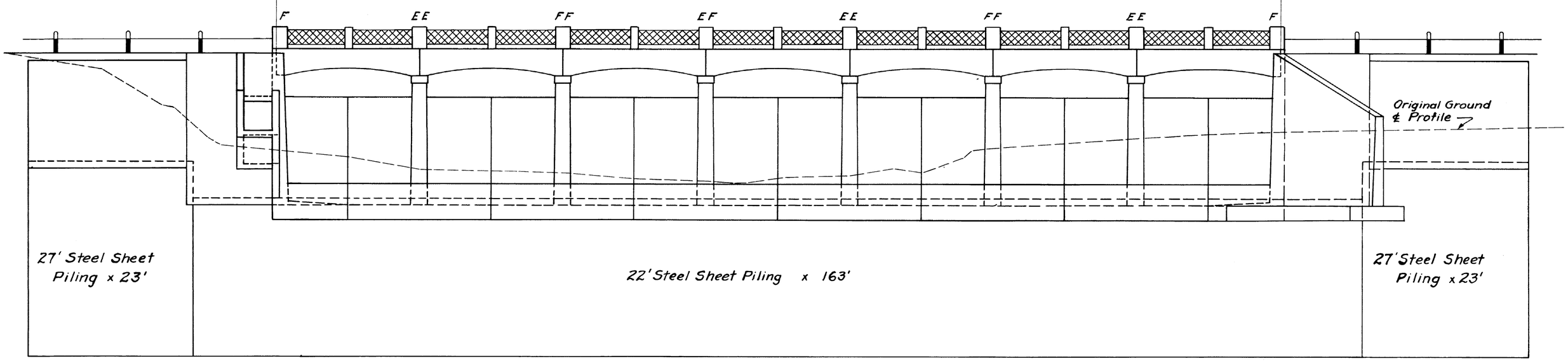


PLAN



SIDE ELEVATION

Drawn By: H.O.M.
Checked By: G.L.G.
Approved By:

CWA PROJECT # 798

OLMSTED COUNTY, MINNESOTA

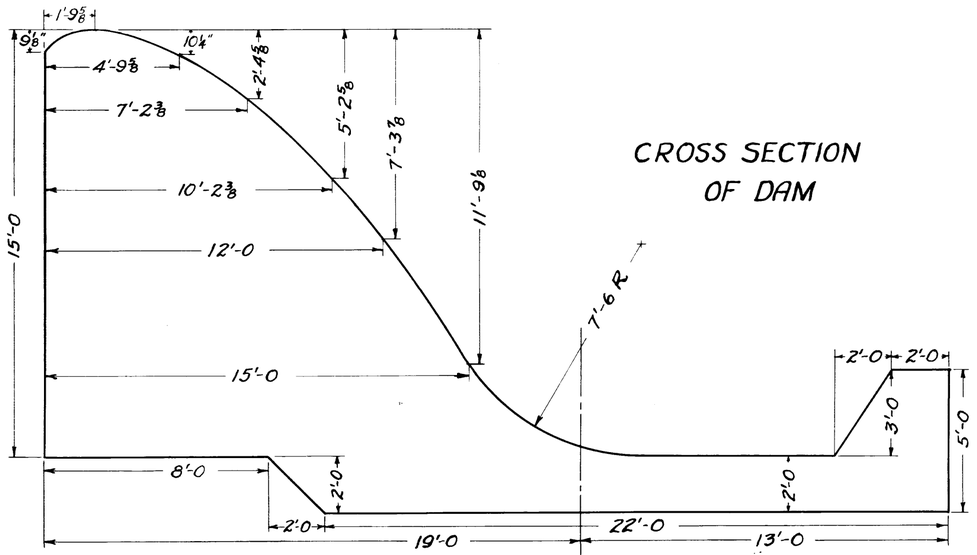
MAYOWOOD DAM & BRIDGE

GENERAL LAYOUT

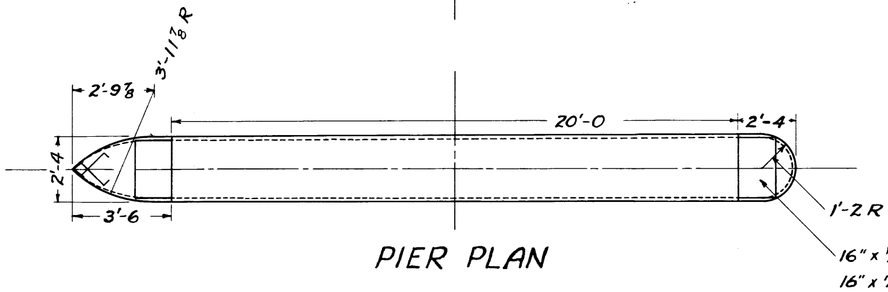
Scale: 1" = 10'

Dec. 1, 1933

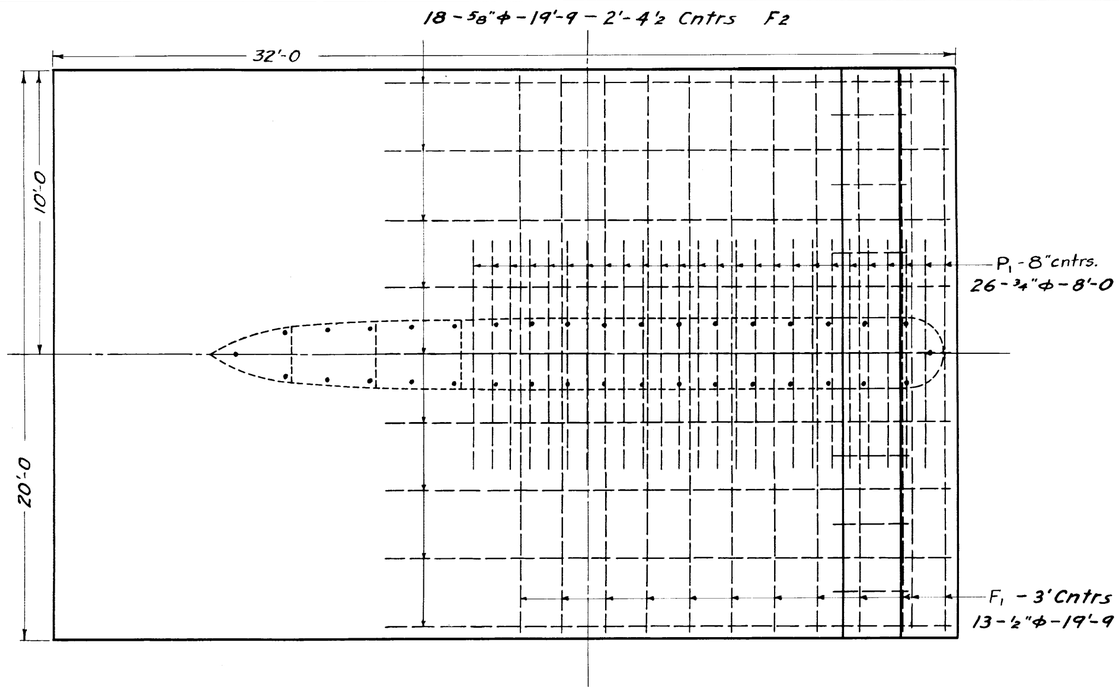
Sheet No. 1



CROSS SECTION OF DAM

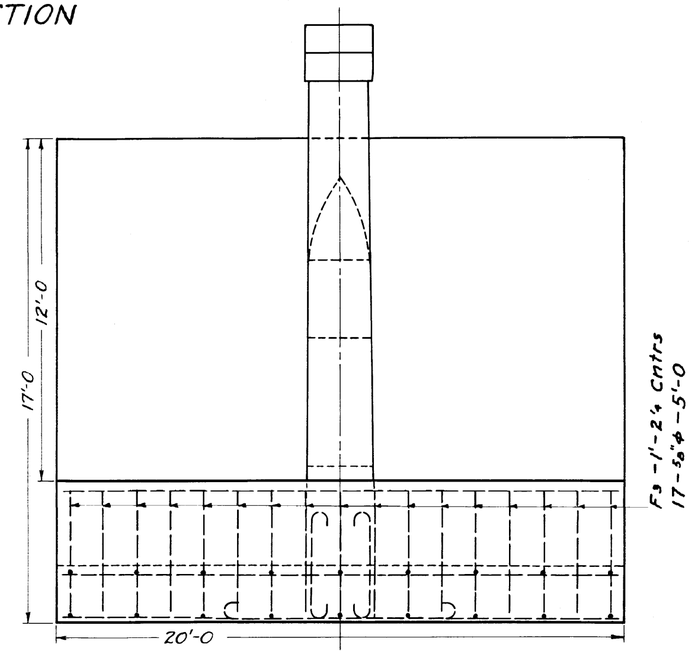


PIER PLAN



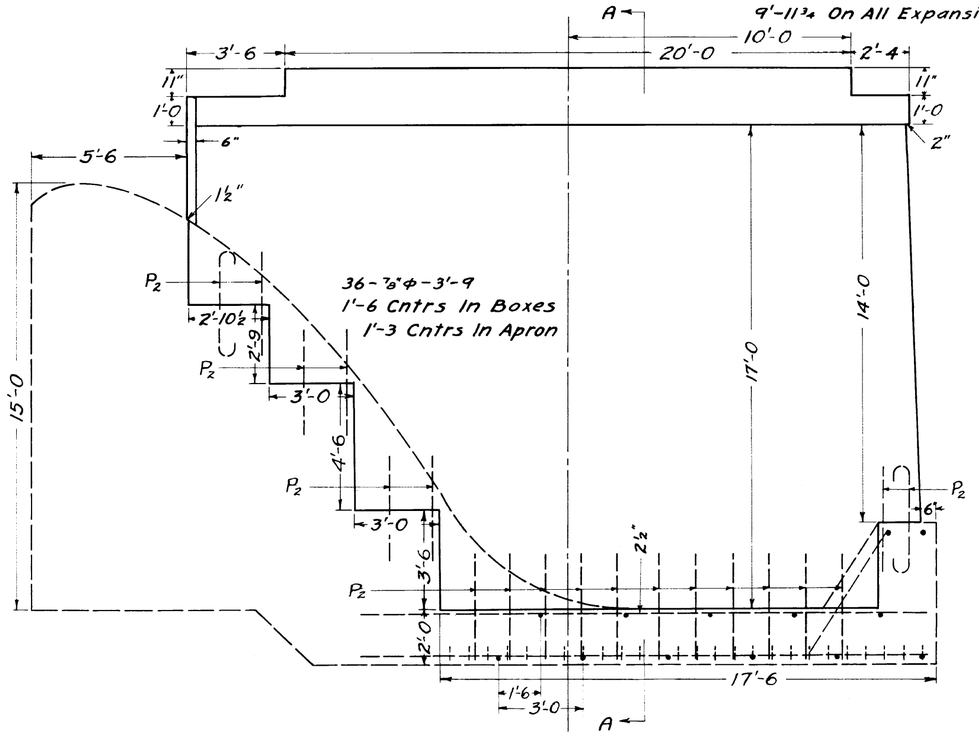
PLAN OF 20' DAM SECTION

16" x ½" x 2'-0¾ Plate On Double Expansion Piers
16" x ½" x 1'-0 Plate On Single Expansion Pier
8 Dowels On Fixed Piers (¾"ϕ - 3'-9)

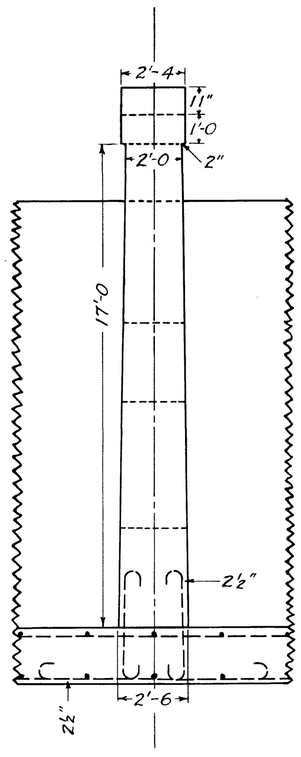


ELEVATION OF 20' DAM SECTION

9'-11¾ On All Expansion Piers To Allow Insertion Of 4" Felt



PIER ELEVATION



PIER SECTION A-A

Drawn By: H. O. M.
Checked By: C. L. C.
Approved By:

CWA PROJECT # 798

OLMSTED COUNTY, MINNESOTA

MAYOWOOD DAM & BRIDGE

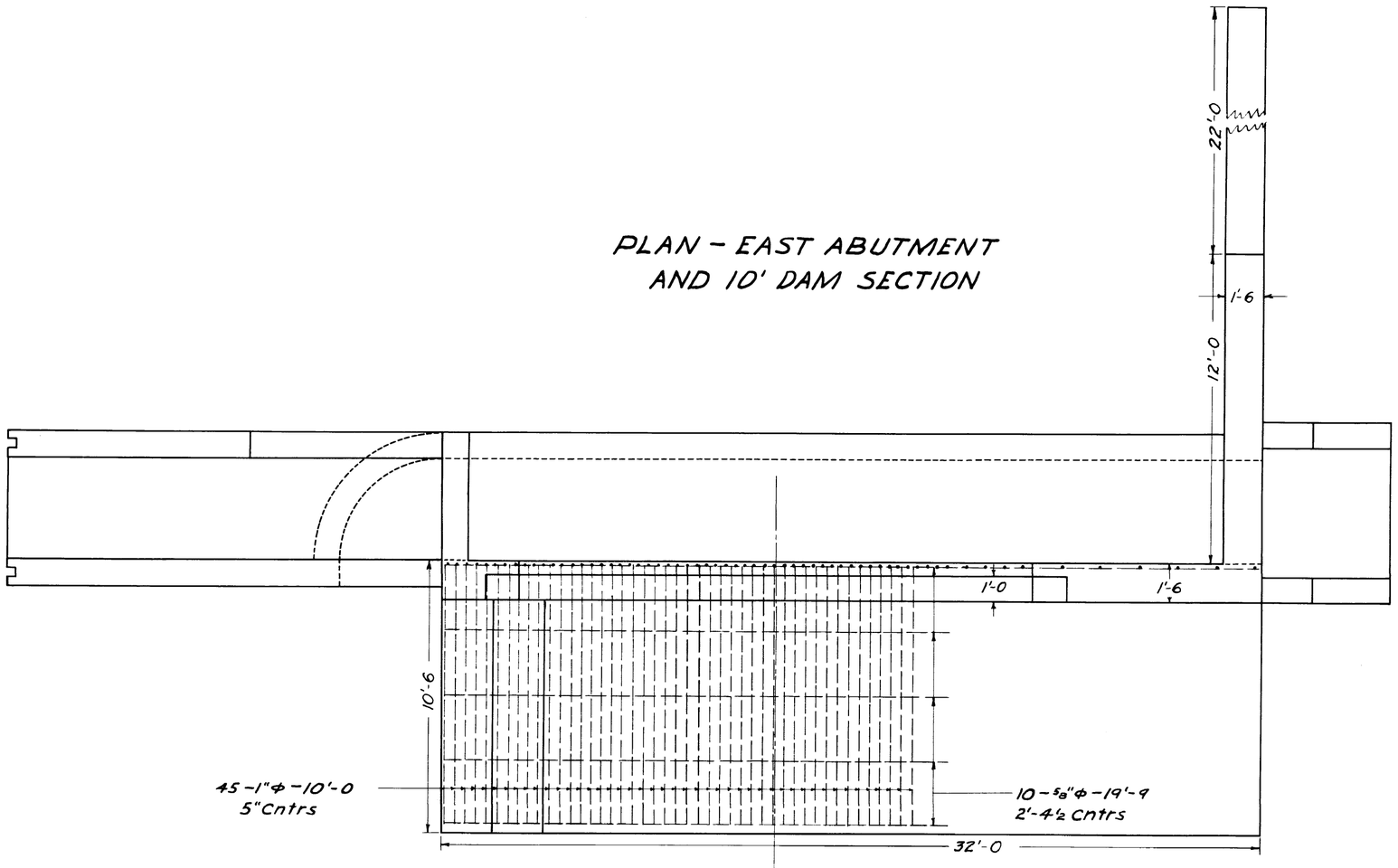
DAM SECTION & PIER DETAILS

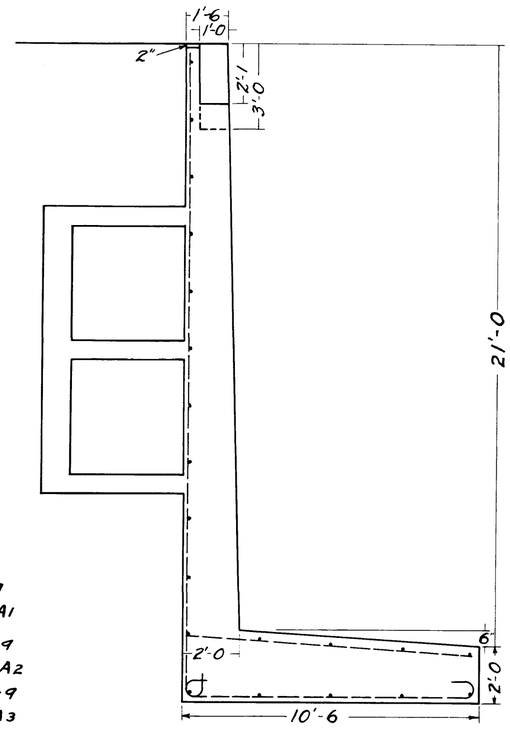
Scale: 1" = 4'

Dec. 1, 1933

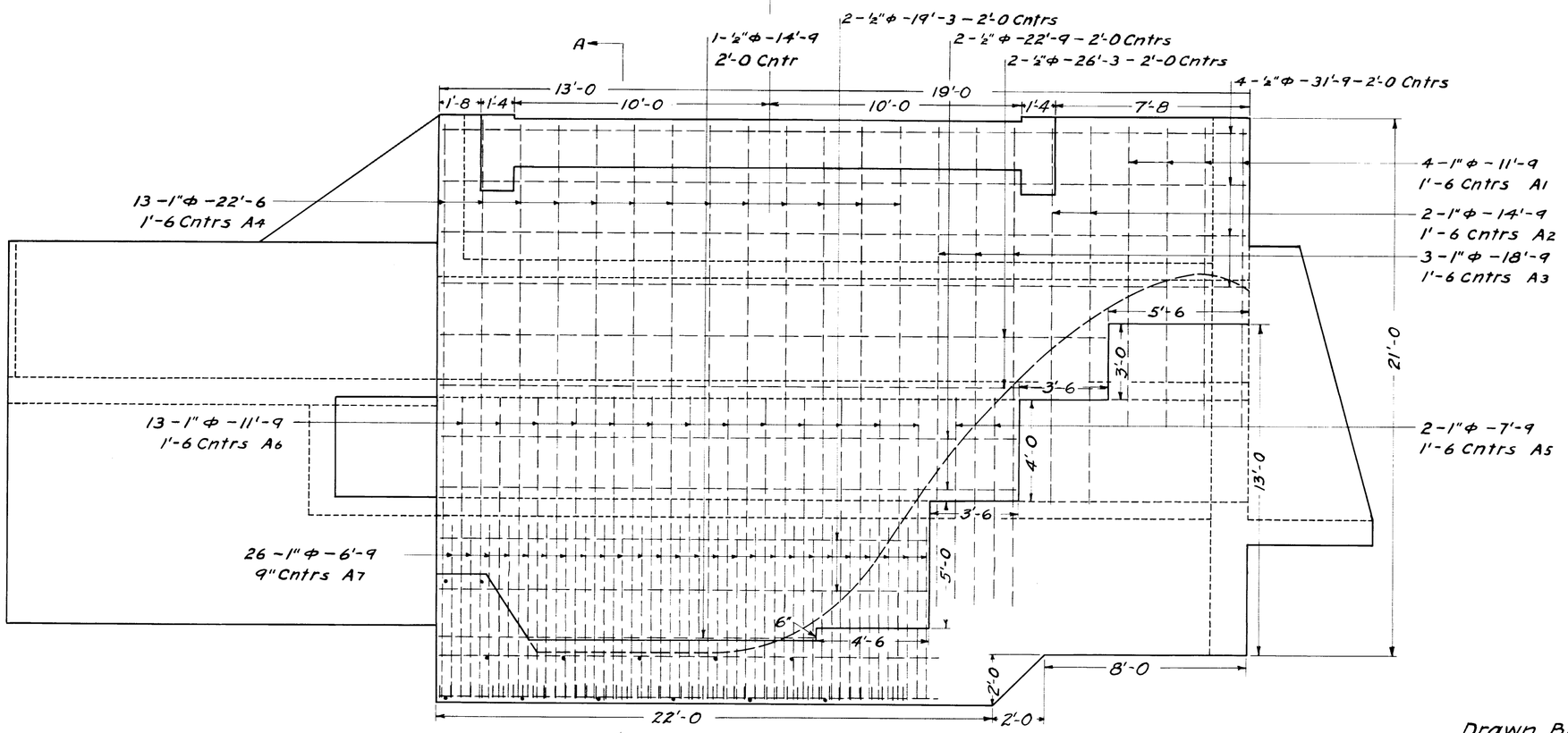
Sheet No. 2

PLAN – EAST ABUTMENT AND 10' DAM SECTION





EAST ABUTMENT SECTION A-A



FRONT ELEVATION – EAST ABUTMENT

Drawn By W.O.M.

Checked By

Approved By

CWA PROJECT #798

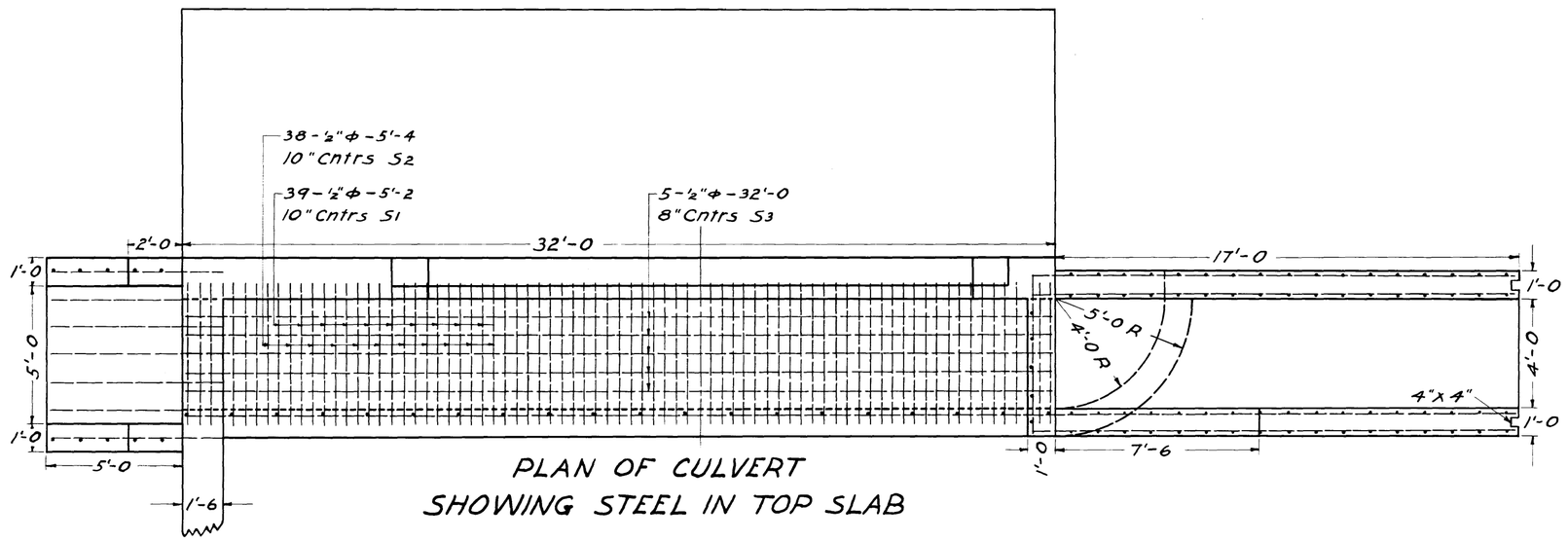
OLMSTED COUNTY, MINNESOTA

MAYOWOOD DAM & BRIDGE

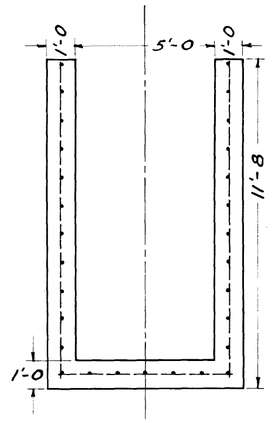
EAST ABUTMENT DETAILS

Scale 1" = 4'

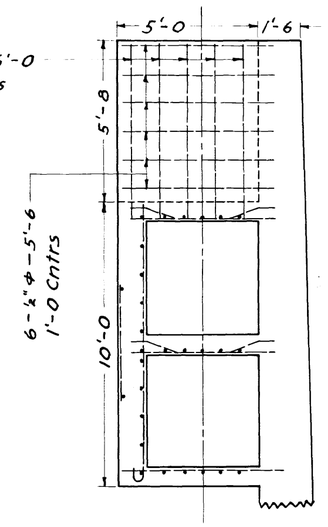
Dec. 1, 1933 Sheet No. 3



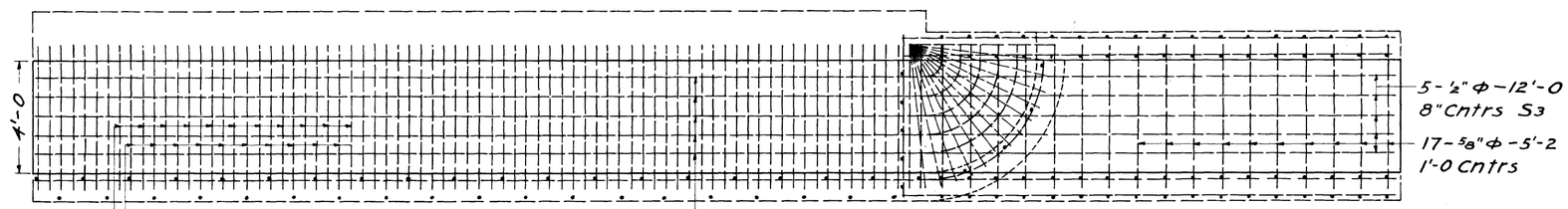
PLAN OF CULVERT
SHOWING STEEL IN TOP SLAB



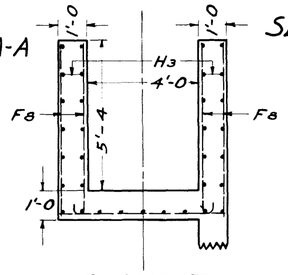
CULVERT
SECTION A-A



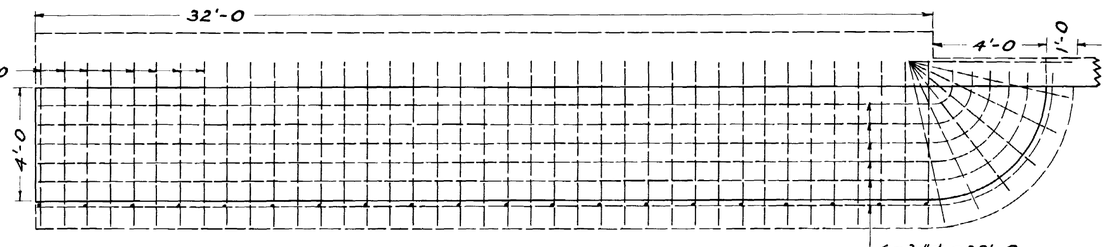
CULVERT
SECTION C-C



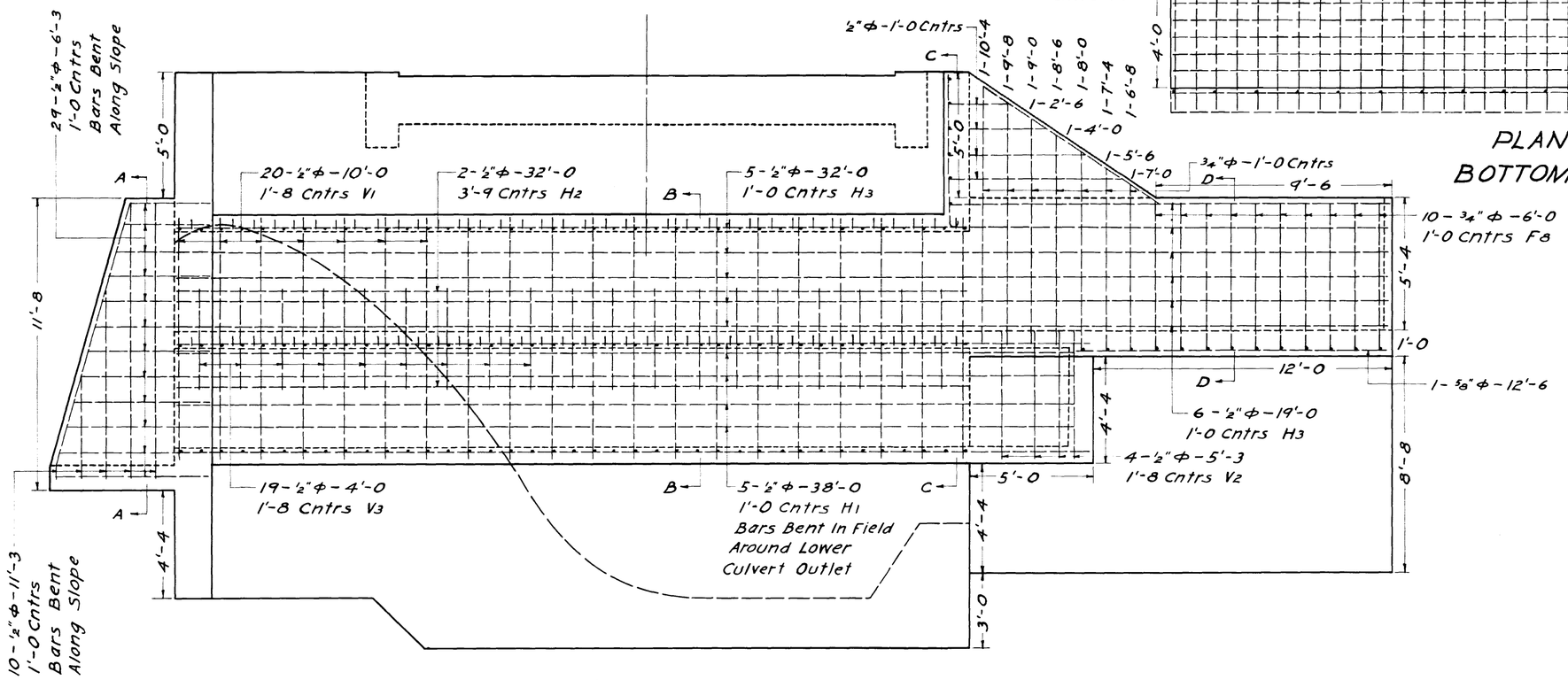
PLAN OF
MIDDLE SLAB



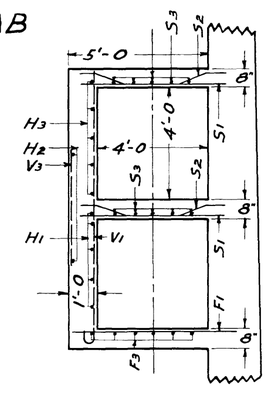
CULVERT
SECTION D-D



PLAN OF
BOTTOM SLAB



ELEVATION OF
CULVERT



CULVERT SECTION B-B

Drawn By H.O.M.
Checked By
Approved By

CWA PROJECT #798

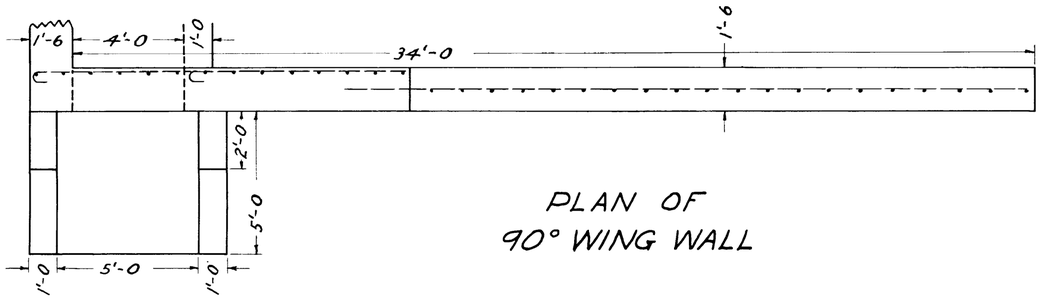
OLMSTED COUNTY, MINNESOTA

MAYOWOOD DAM & BRIDGE

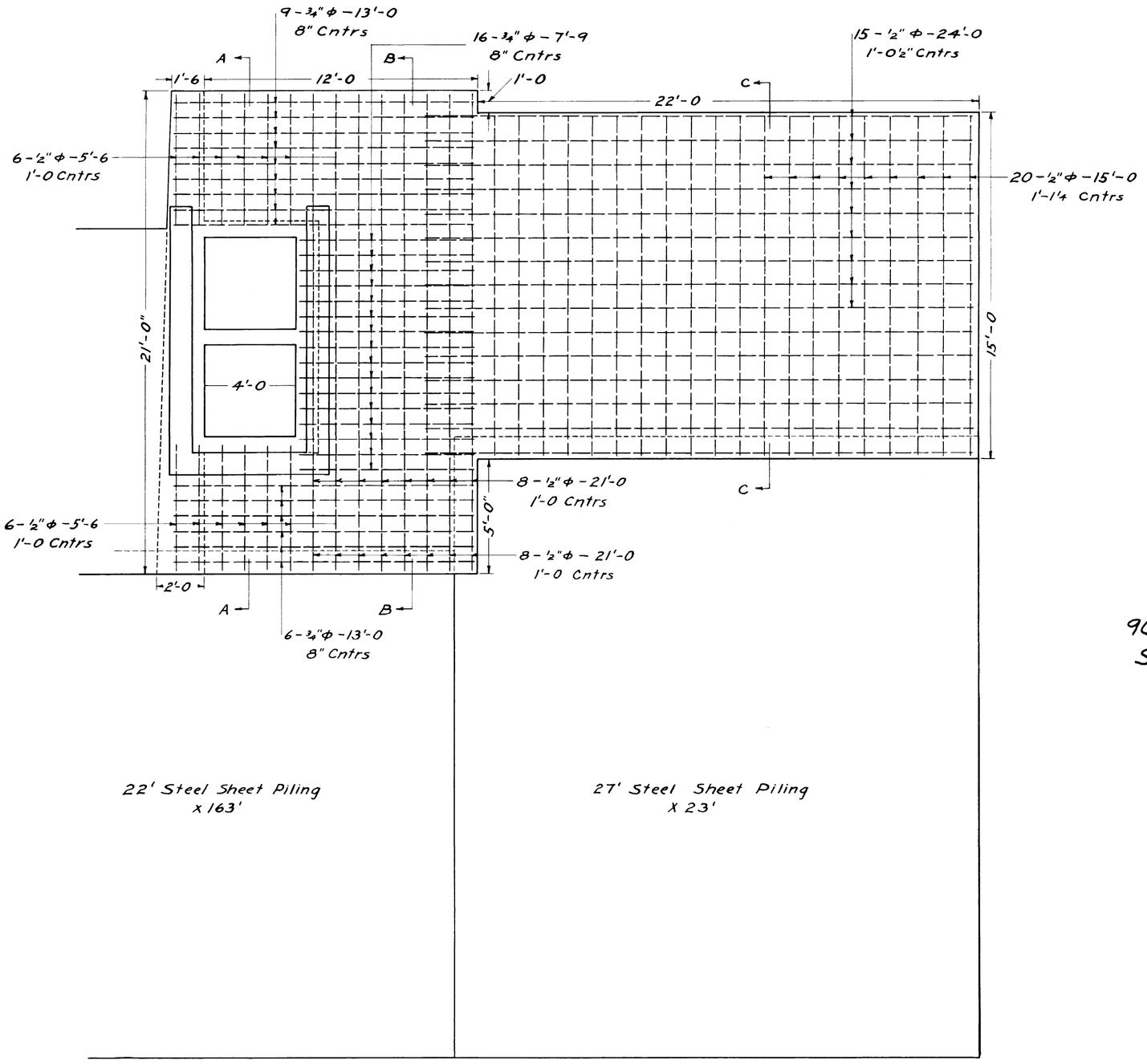
CULVERT DETAILS

Scale 1" = 4'

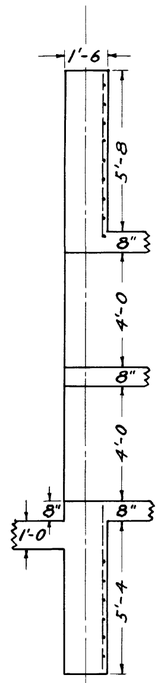
Dec. 1, 1933 Sheet No. 4



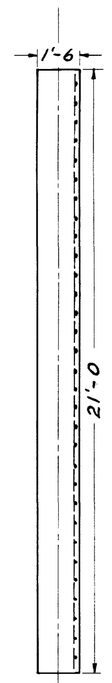
PLAN OF
90° WING WALL



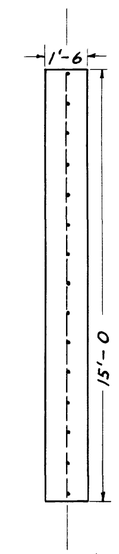
ELEVATION OF
90° WING WALL



90° WING WALL
SECTION A-A



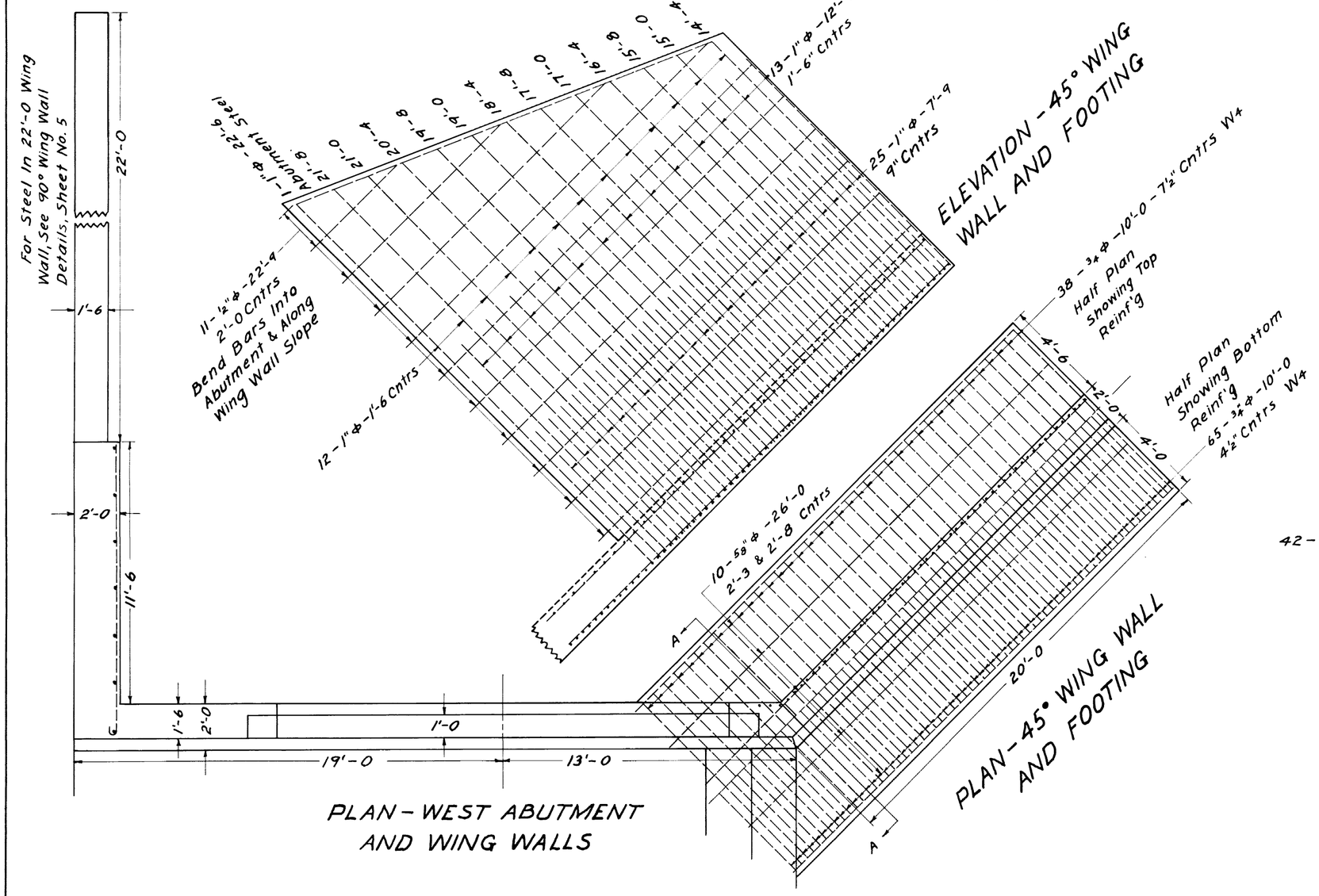
90° WING WALL
SECTION B-B



90° WING WALL
SECTION C-C

Drawn By H.O.M.
Checked By
Approved By

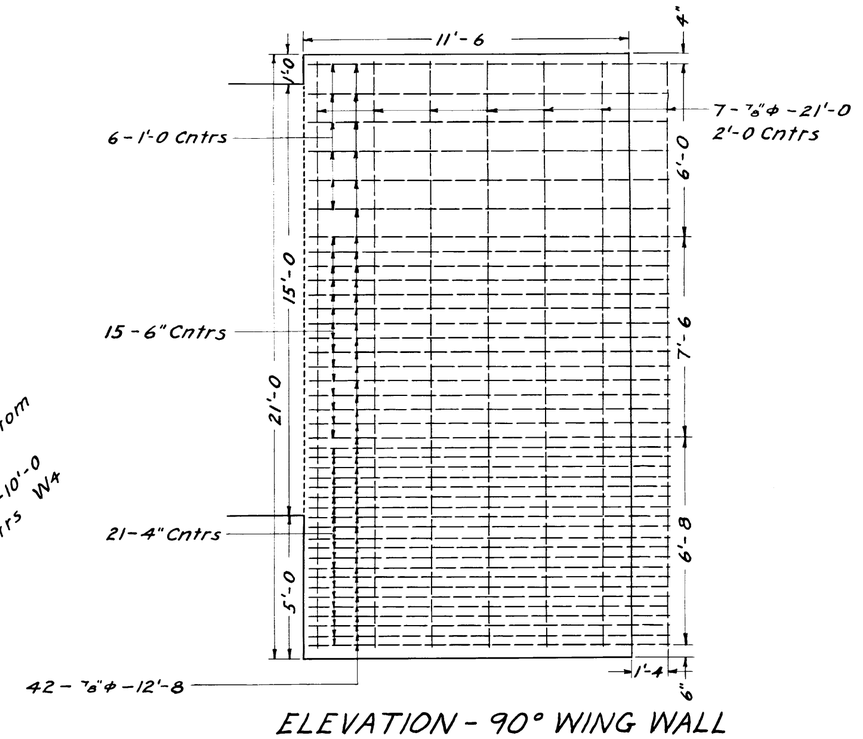
CWA PROJECT # 798
OLMSTED COUNTY, MINNESOTA
MAYOWOOD DAM & BRIDGE
90° WING WALL DETAILS
Scale 1" = 4'
Dec. 1, 1933 Sheet No. 5



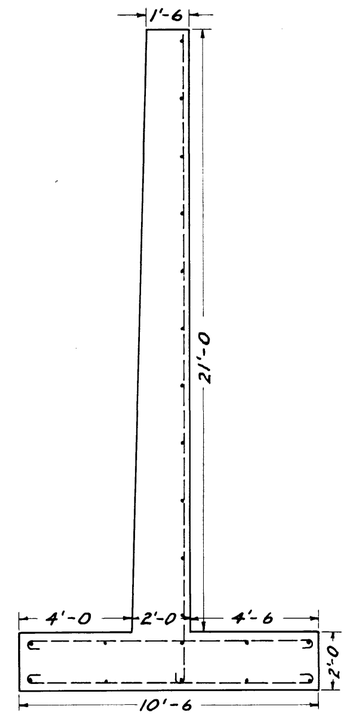
ELEVATION - 45° WING WALL AND FOOTING

PLAN - 45° WING WALL AND FOOTING

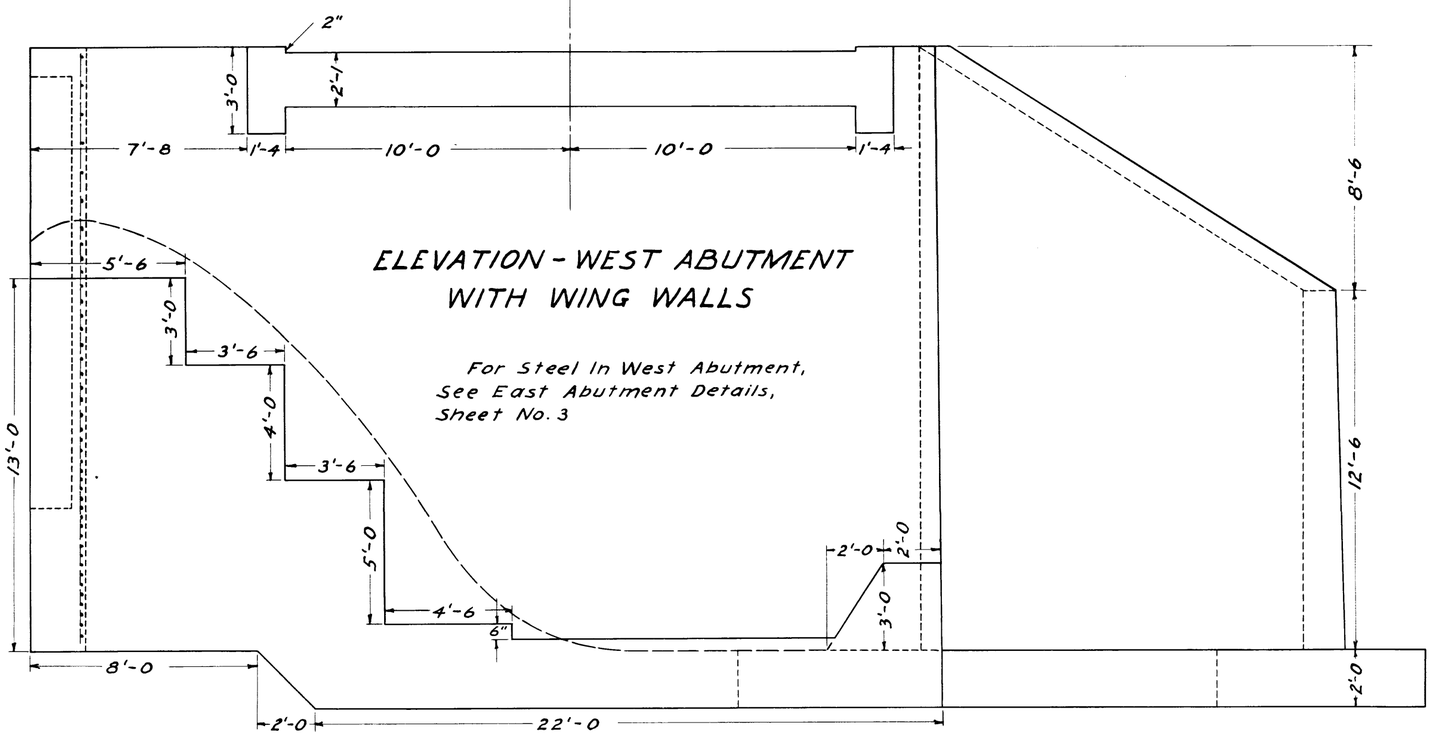
PLAN - WEST ABUTMENT AND WING WALLS



ELEVATION - 90° WING WALL



SECTION A-A - 45° WING WALL



ELEVATION - WEST ABUTMENT WITH WING WALLS

For Steel In West Abutment, See East Abutment Details, Sheet No. 3

Drawn By H.O.M.

Checked By

Approved By

CWA PROJECT #798

OLMSTED COUNTY, MINNESOTA

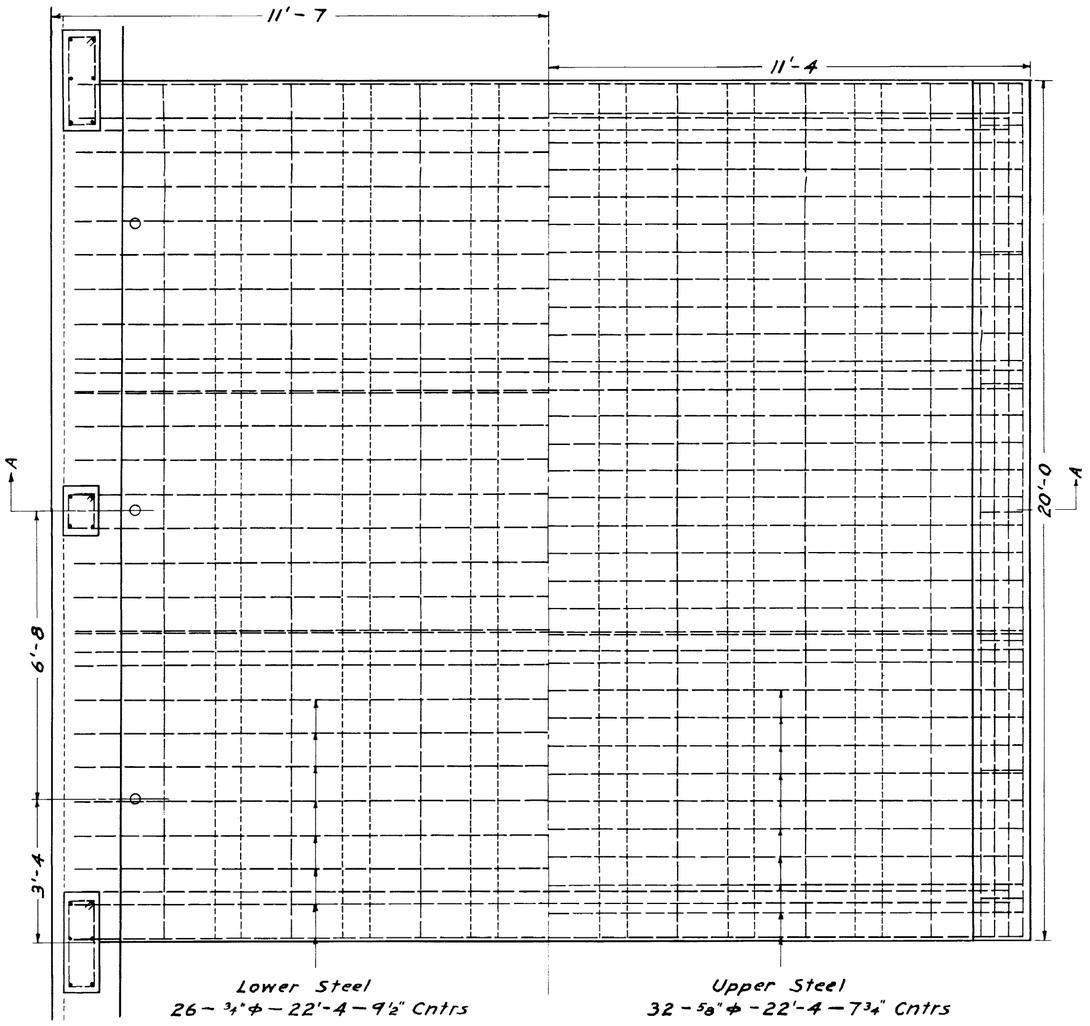
MAYOWOOD DAM & BRIDGE

WEST ABUTMENT DETAILS

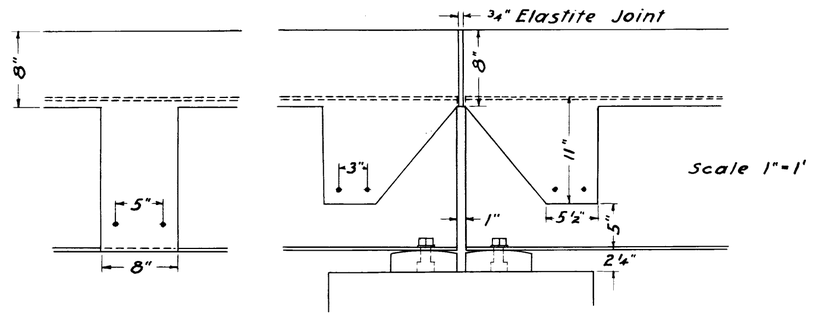
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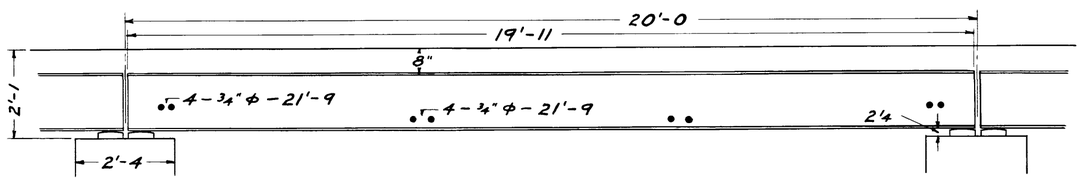
Dec. 1, 1933

Sheet No. 6

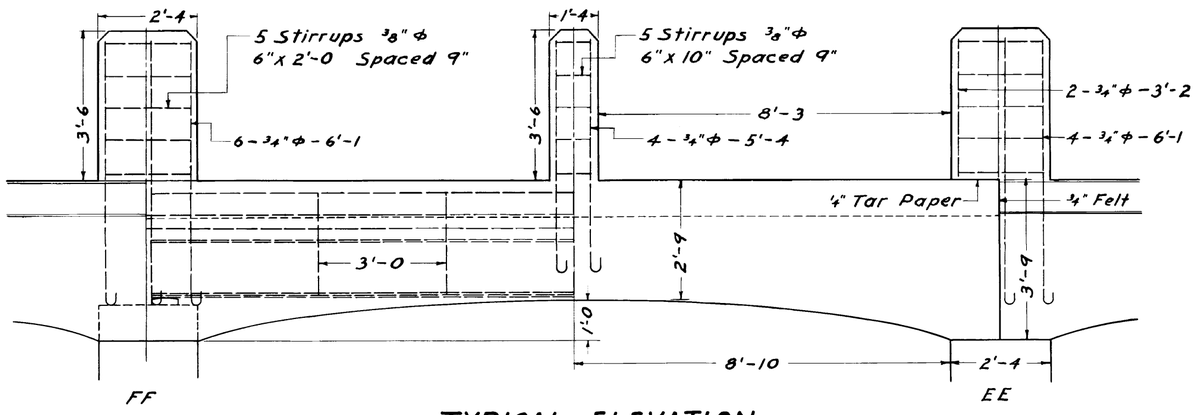


TYPICAL PLAN
OF ONE SPAN OF SUPERSTRUCTURE

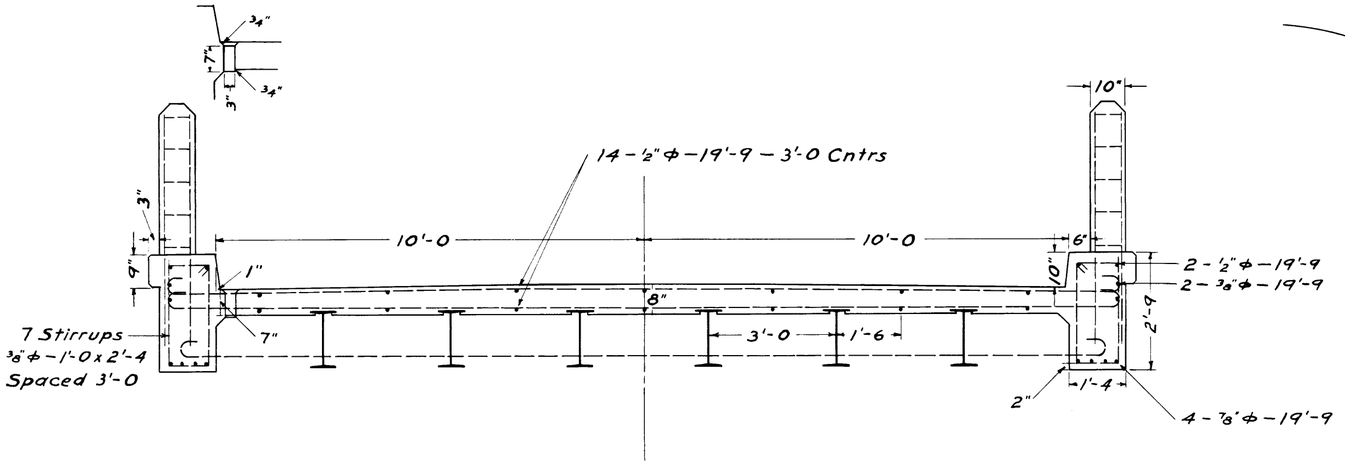




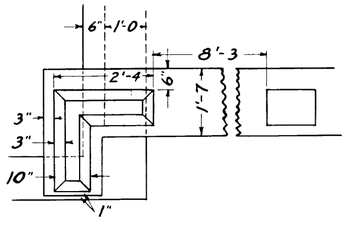
DETAILS OF
I-BEAM PLACEMENT



TYPICAL ELEVATION
OF ONE SPAN OF SUPERSTRUCTURE



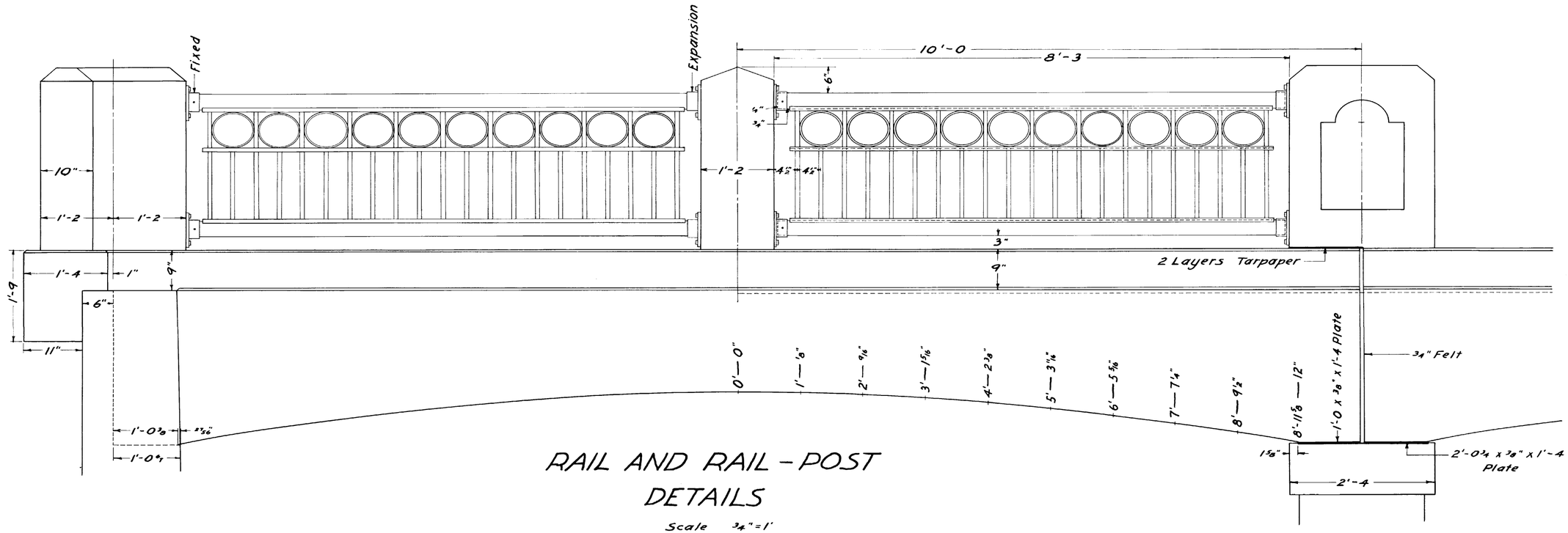
SUPERSTRUCTURE
SECTION A-A



DETAILS OF
CORNER POSTS

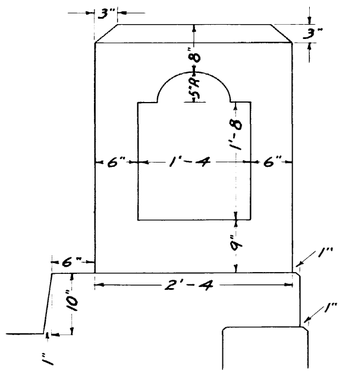
Drawn By H.O.M.
Checked By
Approved By

CWA PROJECT #798
OLMSTED COUNTY, MINNESOTA
MAYOWOOD DAM & BRIDGE
SUPERSTRUCTURE DETAILS
Scale ⅜" = 1'
Dec. 1, 1933 Sheet No. 7



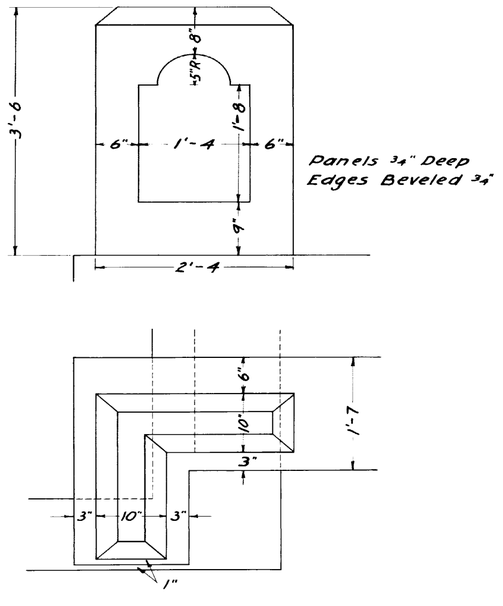
RAIL AND RAIL-POST DETAILS

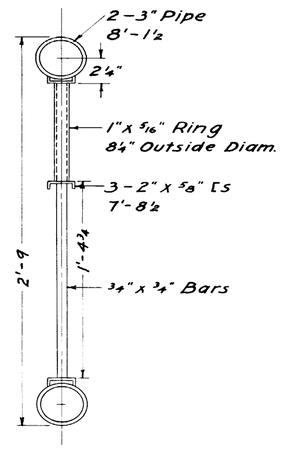
Scale ¾" = 1'



CORNER POST DETAILS

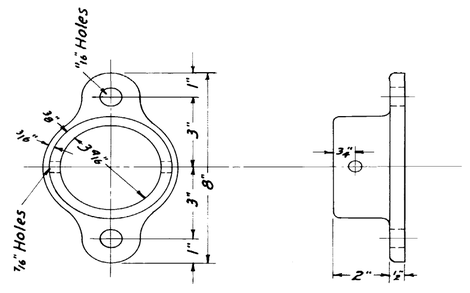
Scale ¾" = 1'





RAIL SECTION

Scale ½" = 1"



RAIL SOCKET DETAILS

Scale ½" = 1"

Drawn By H. O. M.

Checked By

Approved By

CWA PROJECT #798

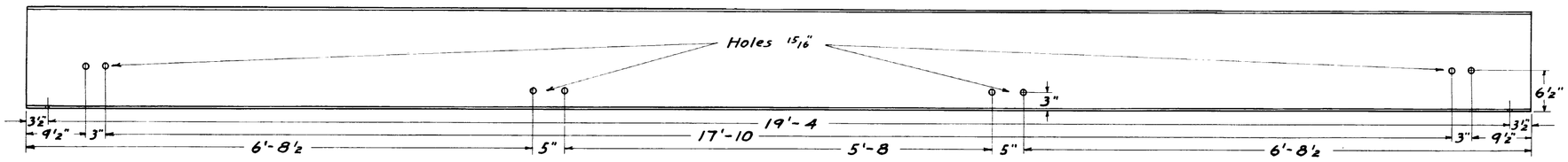
OLMSTED COUNTY, MINNESOTA

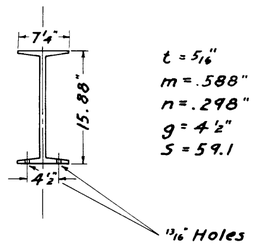
MAYOWOOD DAM & BRIDGE

RAIL DETAILS

Scales As Shown

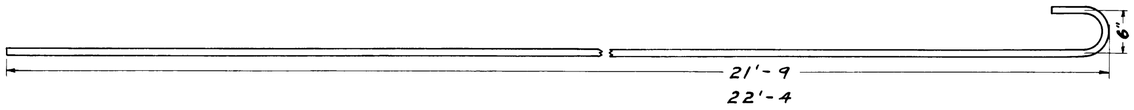
Dec. 1, 1933 Sheet No. 8





BETHLEHEM I-BEAM 16"-37# 19'-11

42 Req'd
(Paint Red Lead)



RODS ⅞" Φ

28 - 21'-9 Req'd
28 - 22'-4 "
(No Paint)

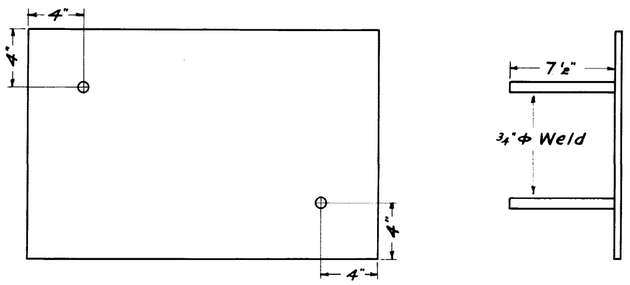


PLATE 1'-4 x ½" x 2'-0¾

6 Req'd (Paint Red Lead)

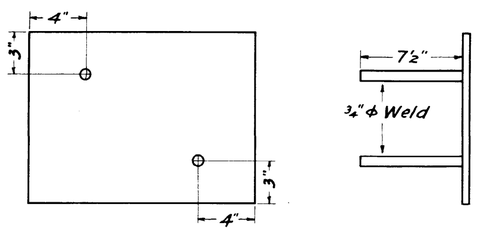
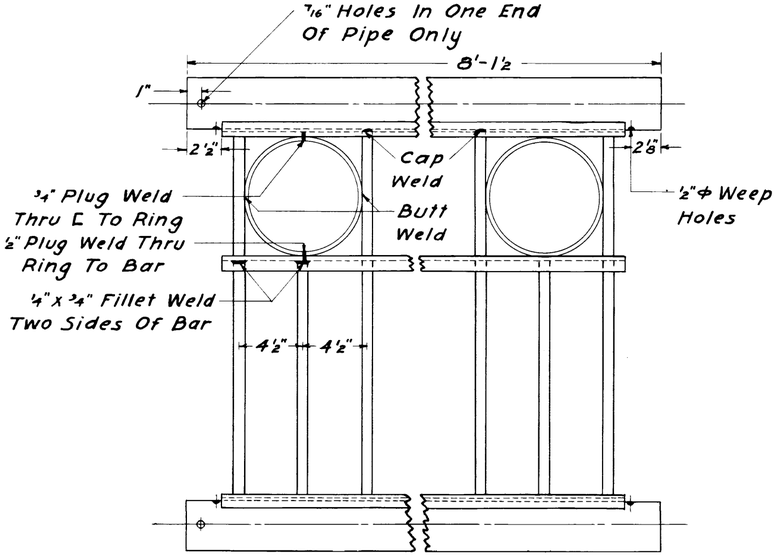
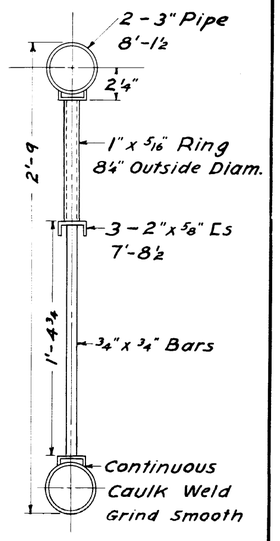


PLATE 1'-0 x ½" x 1'-4

16 Req'd (Paint Red Lead)

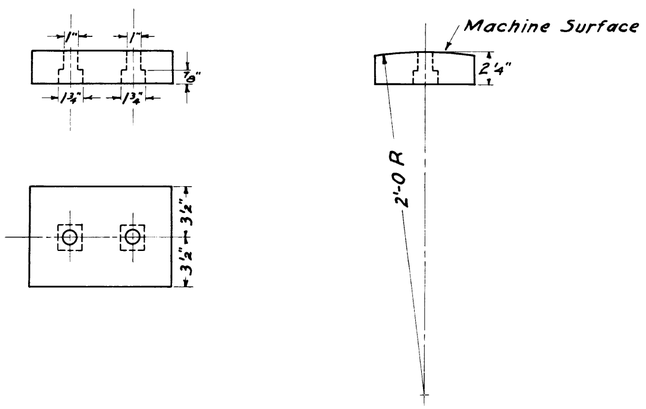




RAIL PANEL DETAILS

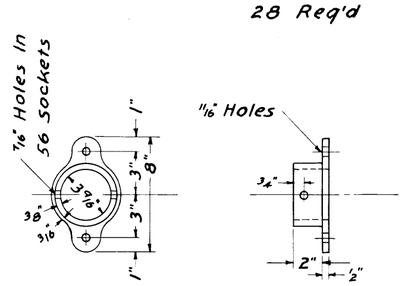
28 Req'd

170 Bolts ¾" Φ x 4" Sq. Head, Hex. Nuts
170 Lead Washers 1¾" Diam. x ¼" - 13/16" Holes



CAST IRON PLATE 7"x2¼"x10"

84 Req'd (Paint Red Lead)



RAIL SOCKET DETAILS

112 Req'd

Drawn By H.O.M.
Checked By
Approved By

CWA PROJECT #798

OLMSTED COUNTY, MINNESOTA

MAYOWOOD DAM & BRIDGE

MISC. STEEL

Scale 1½" = 1'

Dec. 1, 1933

Sheet No. 9

BILL OF REINF'G STEEL

NO. BARS	PER UNIT	DIAM.	L'GTH	MARK	SHAPE	LOCATION
APRON						
128	18	5/8"Φ	19'-9	F2	Strght	Transv.-Top & Bottom
119	17	"	5'-0		"	Along Stiller Slope
91	13	1/2"Φ	19'-0	F1	"	Longit'l-Top & Bottom
PIER FOOTINGS						
216	36	7/8"Φ	3'-9	P2	Dowel	Vert.-In Apron & Boxes
156	26	3/4"Φ	8'-0	P1	"	Horiz.-Trans. To Pier
ABUTMENTS						
26	13	1"Φ	22'-6	A4	Hook	Vert.-Inside Face
6	3	"	18'-9	A3	"	" " "
4	2	"	14'-9	A2	"	" " "
8	4	"	11'-9	A1	"	" " "
26	13	"	11'-9	A6	"	" " "
4	2	"	7'-9	A5	"	" " "
52	26	"	6'-9	A7	"	" " "
8	4	1/2"Φ	31'-9		Strght	Horiz.-Inside Face
4	2	"	26'-3		"	" " "
4	2	"	22'-9		"	" " "
4	2	"	19'-3		"	" " "
2	1	"	14'-9		"	" " "
90	45	1"Φ	10'-0		Dowel	Transv.-Abut. Footing
CULVERTS						
85	85	1/2"Φ	5'-2	S1	Strght	Transv.-Top & Middle Slab
83	83	"	5'-4	S2	6" 5'-0 2"	" - " " " "
5	5	"	32'-0	S3	Strght	Longit'l-Top Slab
5	5	"	38'-0	"	"	" -Middle Slab & Flume
5	5	"	12'-0	"	"	" -Flume Slab
20	20	"	10'-0	V1	Hook	Inside Face-Both Culverts-Vert.
4	4	"	5'-3	V2	"	" " -Circular Wall-Vert.
19	19	"	4'-3	V3	Strght	Outside Face At Middle Slab-Vert.
5	5	"	38'-0	H1	"	Inside Face-Lower Culvert-Horiz.
2	2	"	32'-0	H2	"	Outside Face At Middle Slab-Horiz.
5	5	"	32'-0	H3	"	Inside Face - Top Culvert
26	26	"	19'-0	H3	"	Horiz.-Flume Walls
46	46	5/8"Φ	5'-10	F1	"	Transv.-Bottom Slab
6	6	3/4"Φ	38'-0	F3	"	Longit'l - "
17	17	5/8"Φ	5'-2		"	Transv.-Flume Slab
27	27	3/4"Φ	6'-0	F8	"	Vert.-Outside Face-Flume Walls
27	27	"	"	"	Hook	" -Inside " - " "
2	2	5/8"Φ	12'-6		Strght	Longit'l-Bottom East Flume Wall
2	2	1/2"Φ	7'-0		"	Horiz.-East Flume Wall
2	2	"	5'-6		"	" " " "
2	2	"	4'-0		"	" " " "
2	2	"	2'-6		"	" " " "
1	1	3/4"Φ	10'-4		"	Vert.-Outside-East Flume Wall
1	1	"	9'-8		"	" - " - " " "
1	1	"	9'-0		"	" - " - " " "
1	1	"	8'-6		"	" - " - " " "
1	1	"	8'-0		"	" - " - " " "
1	1	"	7'-4		"	" - " - " " "
1	1	"	6'-8		"	" - " - " " "
1	1	"	10'-4		Hook	" -Inside- " " "
1	1	"	9'-8		"	" - " - " " "
1	1	"	9'-0		"	" - " - " " "
1	1	"	8'-6		"	" - " - " " "
1	1	"	8'-0		"	" - " - " " "
1	1	"	7'-4		"	" - " - " " "
1	1	"	6'-8		"	" - " - " " "
10	10	1/2"Φ	11'-3		Strght	Vert.-Culvert Entrance
29	29	"	6'-3			Horiz.- " "

DROP WALL ABOVE CULVERT OUTLET

5	5	3/4"Φ	6'-0		Hook	Vert.-Inside Face
6	6	1/2"Φ	5'-6		Strght	Horiz.- " "

DROP WALL AROUND CULVERT INLET

8	8	1/2"Φ	21'-0		Strght	Vert.-Inside Face
15	15	3/4"Φ	13'-0		Hook	Horiz.- " "
12	12	1/2"Φ	5'-6		Strght	Vert.- " "
16	16	3/4"Φ	7'-9		Hook	Horiz.- " "

CORE WALLS

30	15	1/2"Φ	24'-0		Strght	Horiz.- Cntr. Of Wall
40	20		15'-0		"	Vert. - " " "

90°-2' CANTILEVER WALL

42	42	7/8"Φ	12'-8		Hook	Horiz.- Inside Face
7	7	"	21'-0		Strght	Vert.- " "

45° WING WALL

25	25	1"Φ	7'-9	W1	Hook	Vert.-Inside Face
13	13	"	12'-9	W2	"	" " " "
1	1	"	21'-8	W3	"	" " " "
1	1	"	21'-0	"	"	" " " "
1	1	"	20'-4	"	"	" " " "
1	1	"	19'-8	"	"	" " " "
1	1	"	19'-0	"	"	" " " "
1	1	"	18'-4	"	"	" " " "
1	1	"	17'-8	"	"	" " " "
1	1	"	17'-0	"	"	" " " "
1	1	"	16'-4	"	"	" " " "
1	1	"	15'-8	"	"	" " " "
1	1	"	15'-0	"	"	" " " "
1	1	"	14'-4	"	"	" " " "
11	11	1/2"Φ	22'-9		Strght	Horiz.- " "
103	103	3/4"Φ	10'-0	W4	Dowels	Transv.-Top & Bottom-Footing
10	10	5/8"Φ	26'-0		Strght	Longit'l- " " " - "

PIERS

54	4 & 6	3/4"Φ	3'-9		Dowels	Vert.-From Pier Into Curb At Fixed Joints

I-BEAMS

28	4	7/8"Φ	21'-9		Hook	Transv.-Thru I-Beams
28	4	"	21'-9		"	" " " " "

FLOOR SLAB

182	26	3/4"Φ	22'-4		Dowel	Transv.-Bottom Face
224	32	5/8"Φ	"		"	" - Top "
98	14	1/2"Φ	19'-9		Strght	Longit'l-Top & Bottom

FACIA GIRDERS

56	8	7/8"Φ	19'-9		Strght	Longit'l-Bottom
28	4	1/2"Φ	"		"	" -Top
28	4	3/8"Φ	"		"	" -In Hooks

RAIL POSTS

80	4&6	3/4"Φ	6'-1		Hook	Vert.-Large Posts
56	4	"	5'-4		"	" -Intermediate Posts
16	2	"	3'-2		Strght	" -Exp. Posts

STIRRUPS □

NO.	PER UNIT	DIAM.	SIZE	MARK	LOCATION
98	14	3/8"Φ	1'-0x2'-4	S11	Facia Girder
80	5	"	6"x2'-0	T1	Large Rail Posts
70	5	"	6"x10"	T2	Small " "

FELT

NO. PIECES	THICK-NESS	WIDTH	LENGTH	LOCATION
4	3/4"	8"	20'-0	Between Floor Slabs
8	"	16"	3'-9	" Facia Girders
6	1/4"	11"	2'-4	" " " & Pier
2	"	11"	1'-2	" " " " "
8	3/4"	3"	9"	" " "

Drawn By H.O.M.

Checked By

Approved By

CWA PROJECT #798

OLMSTED COUNTY, MINNESOTA

MAYOWOOD DAM & BRIDGE

BILL OF MATERIAL

Dec. 1, 1933 Sheet No. 10