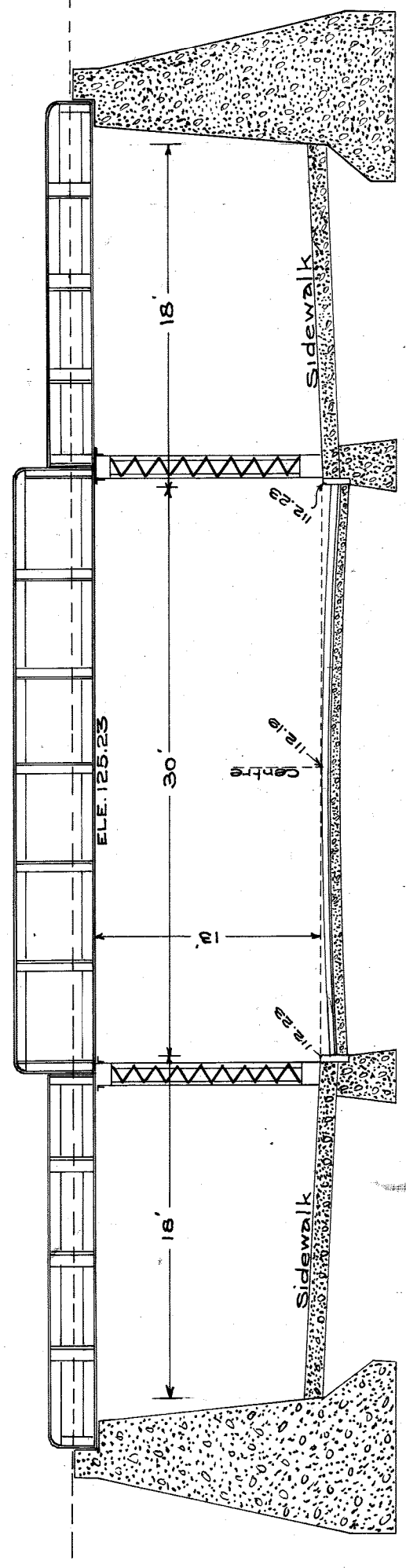
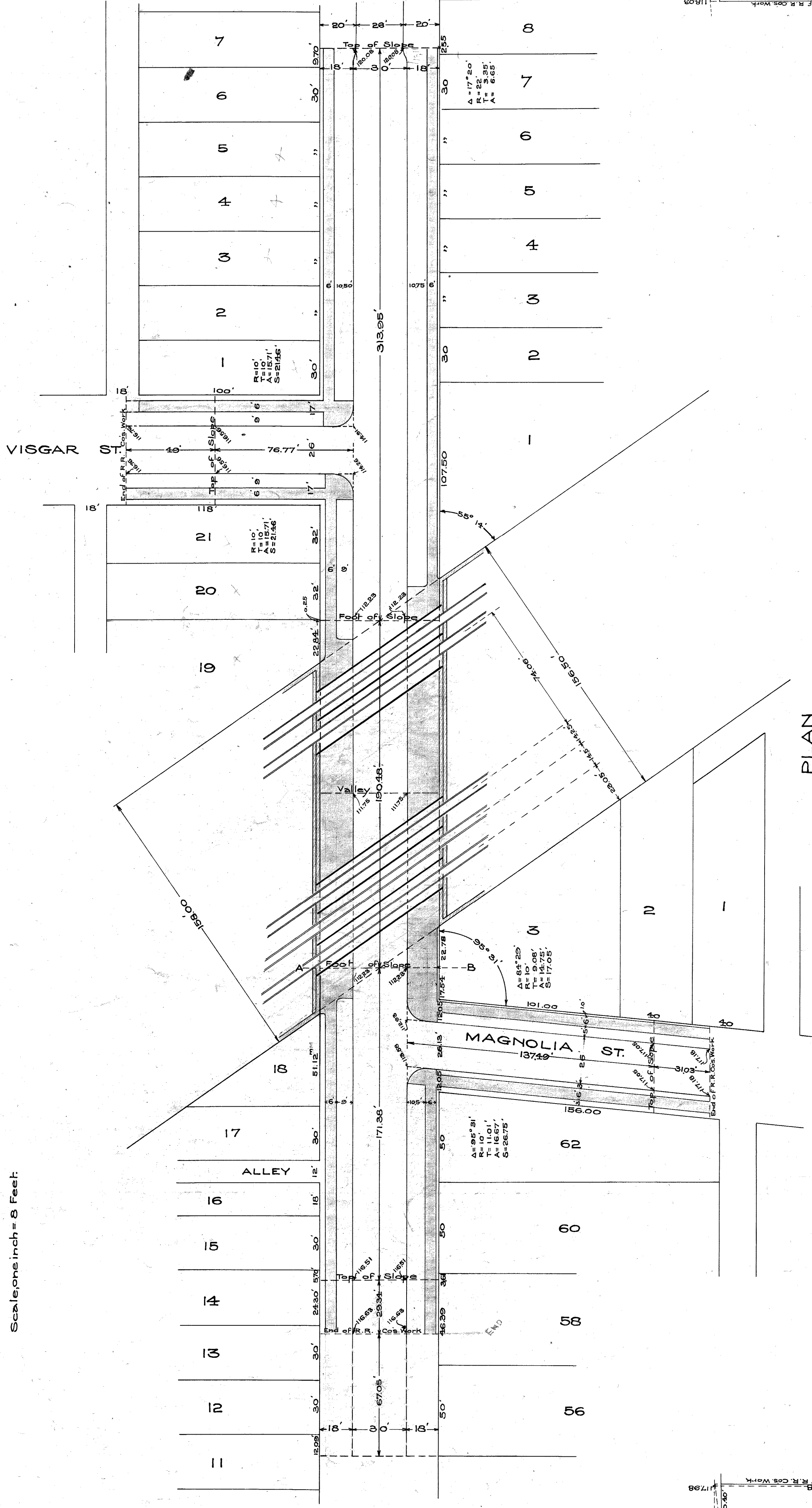


PROPOSED SUBWAY IN
VINEWOOD AVENUE
UNDER D. & B.C., L.S. & M.S. & G.T. R'WYS.

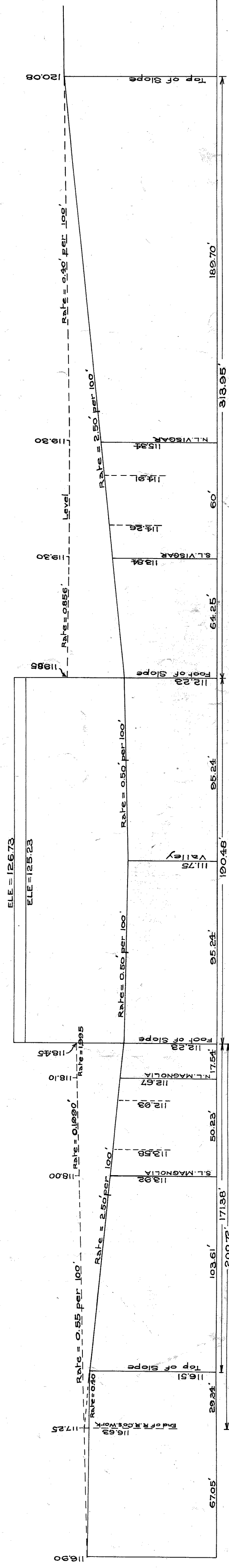
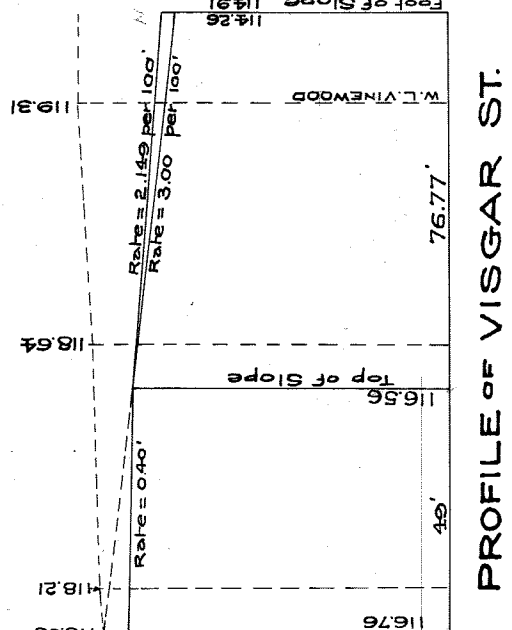
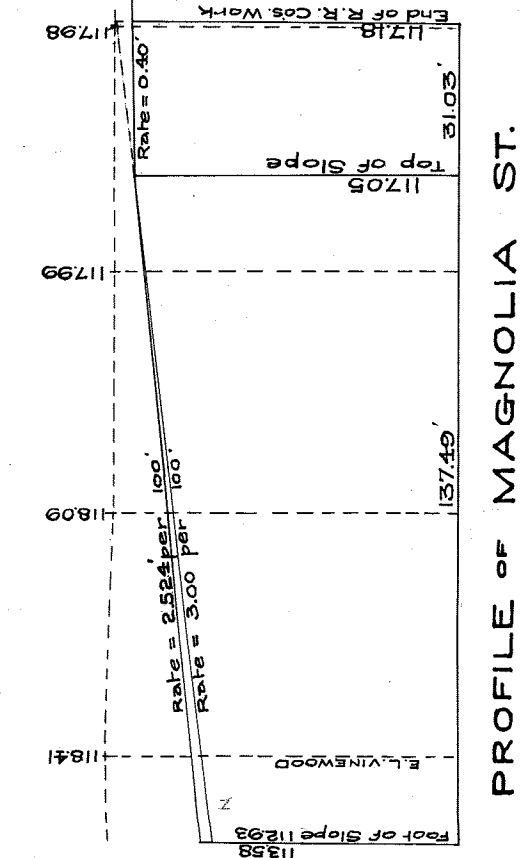


SECTION AT A-B
Scale one inch = 8 Feet.



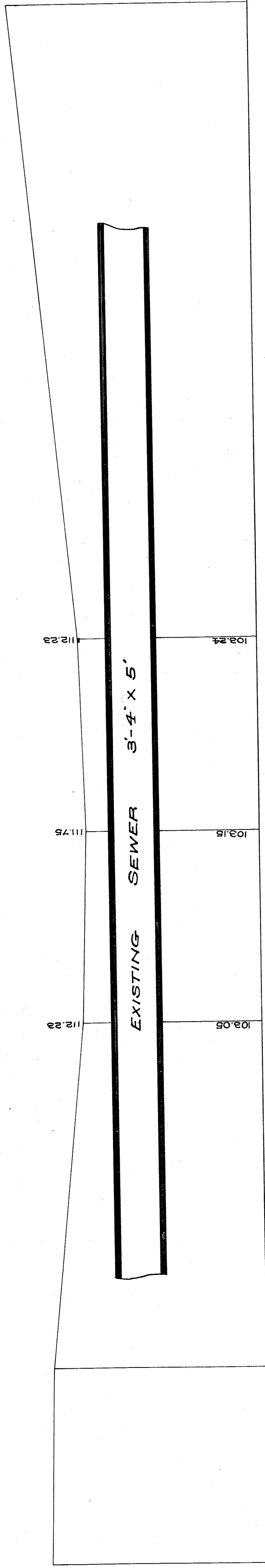
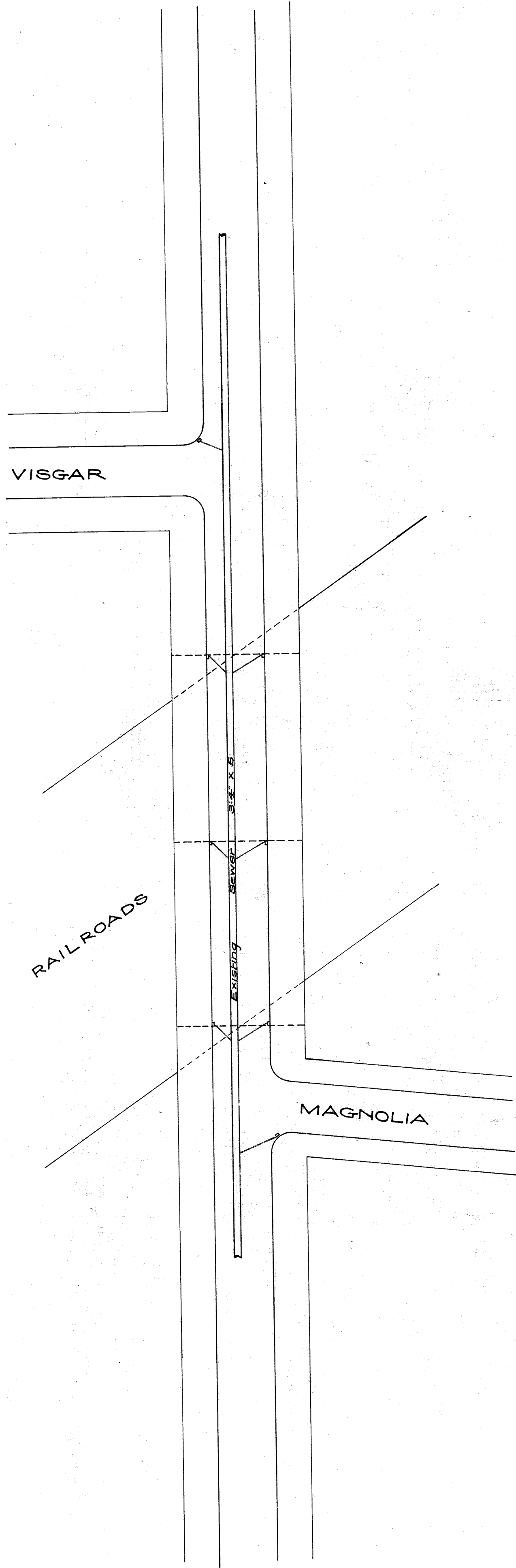
Approved:
Philip Conner
City Engineer

W. A. Holt
Chief Engineer



CITY ENGINEERS OFFICE
GRADE SEPARATION & BRIDGES
Plan A
Drawing 4-17
City Engineers' Office

DRAINAGE PLAN
FOR
VINEWOOD AVENUE SUBWAY
NORTH OF MICHIGAN AVE



CITY ENGINEERS OFFICE
GRADE SEPARATION & BRIGGS

Case A Drawn 2 I No. 7C

City Engineers Office
Drawn by J.W. Reid, Nov. 4, 1906.

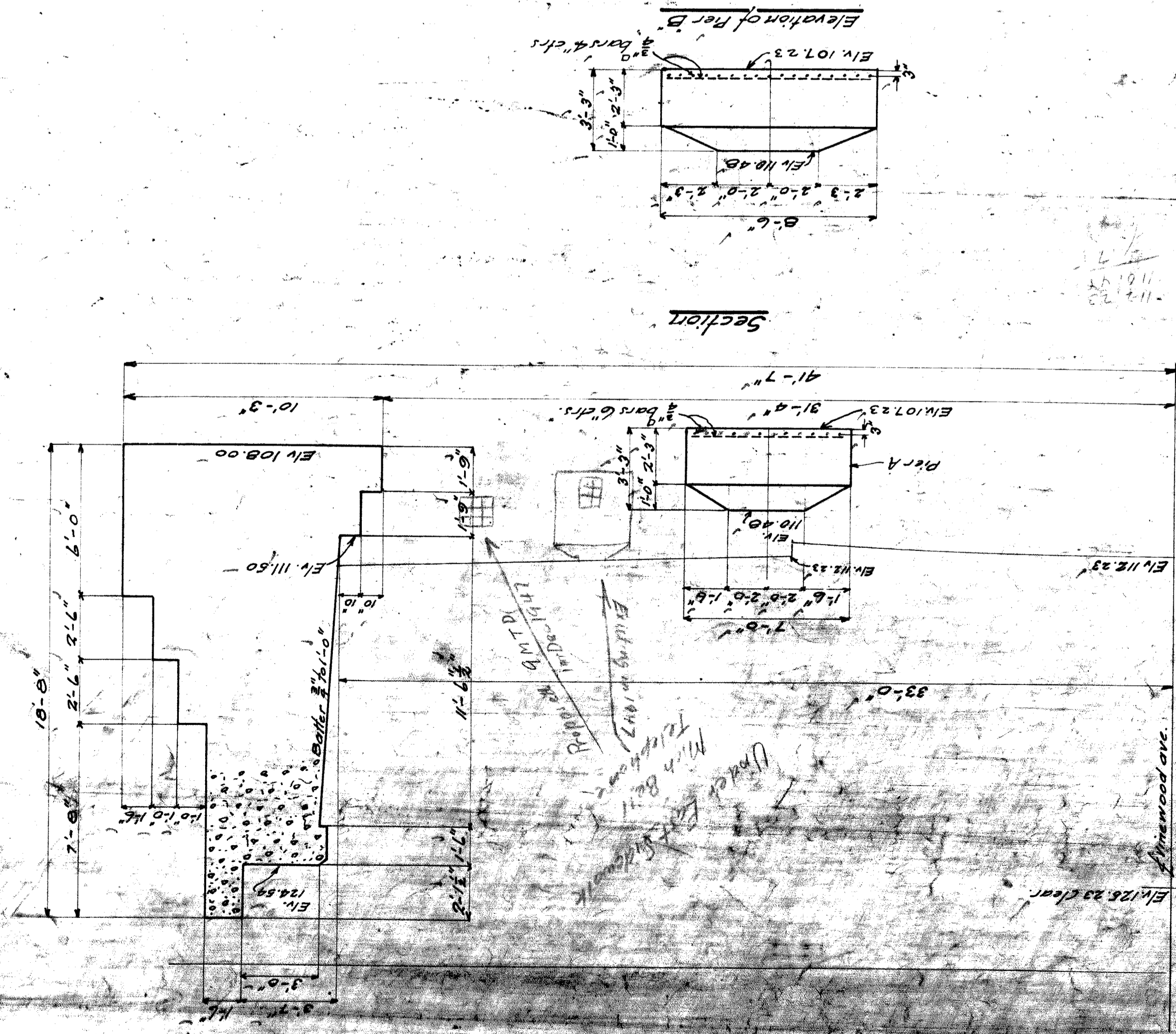
VINEWOOD AVE.

Hor. Scale, One Inch = 40 Feet
Ver. " " " = 10 "

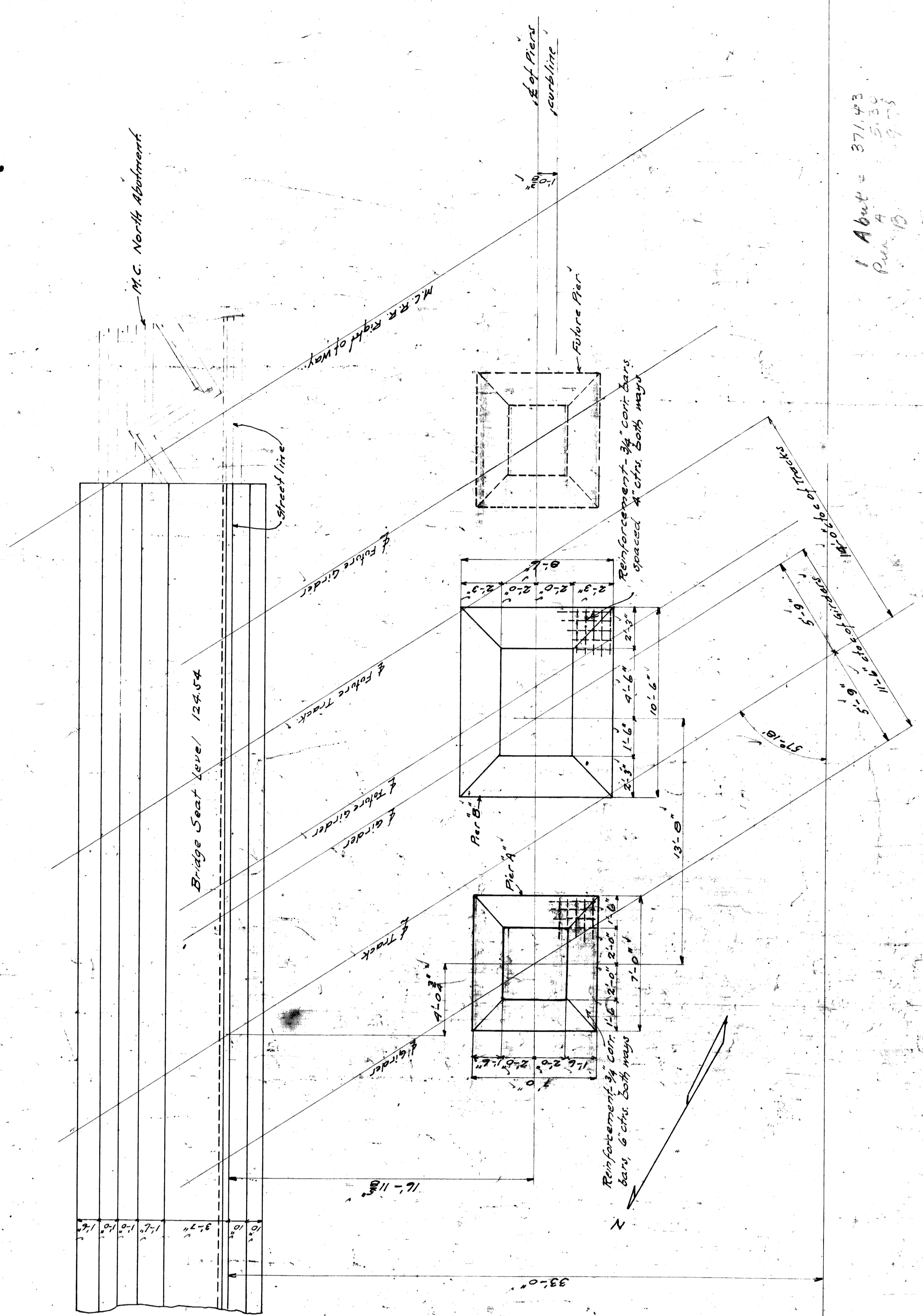
A-2 I-7-C
File XU26-2

Notes:

Concrete Mixture 1-2 1/2 - 5
 Chamfer all exposed edges
 Exposed surfaces to have a dense
 hard and smooth finish. Non-Exposed
 surfaces to be free from a honeycombed
 appearance.



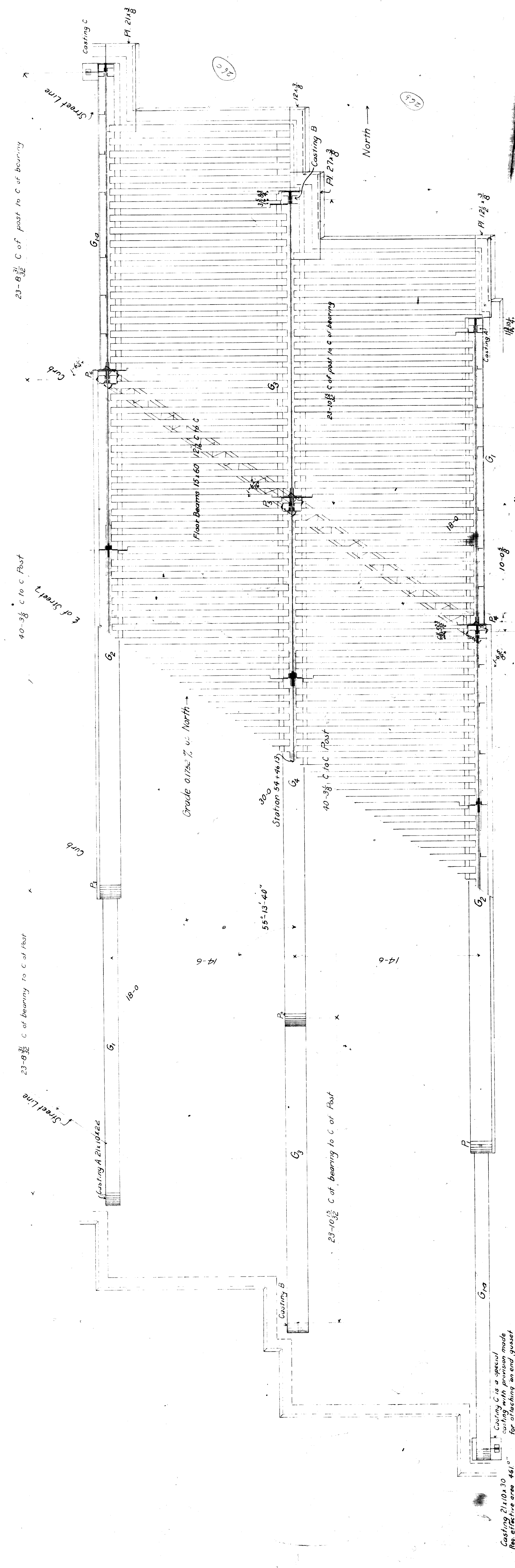
Section



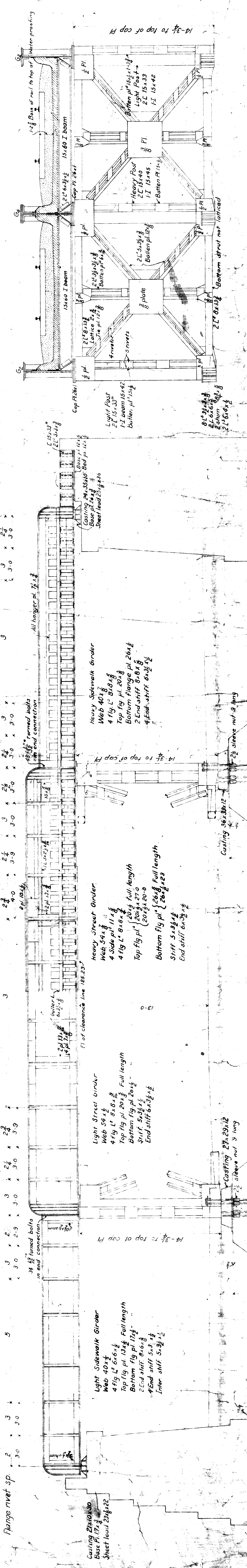
Plan of Abutment's Piers on North side of Vinewood Ave.
 south side Abutment's Piers of
 same construction and original elevations

1 Abut = 371.43
 Pub. A
 Pub. B

Revised 7-16-08 7-21-08
 L. S. & M. S. Ry. Bridge Dept. S. Rockwell, C.E.
 Bridge No. Delroit Branch
 over Vinewood Ave.
Delroit, Mich.
Masonry Plan.
Sheet 1 of 1.
 Scale 1" = 1'-0" Proj. 11-08. Draw. No. B2842



Thickness of Base Pl. on Girders
 At P. 2 At P. 3 At P. 4
 At P. 5 At P. 6 At P. 7
 At P. 8 At P. 9 At P. 10
 Base Pl. to be beveled to fit grade
 Feet all the same long ft.

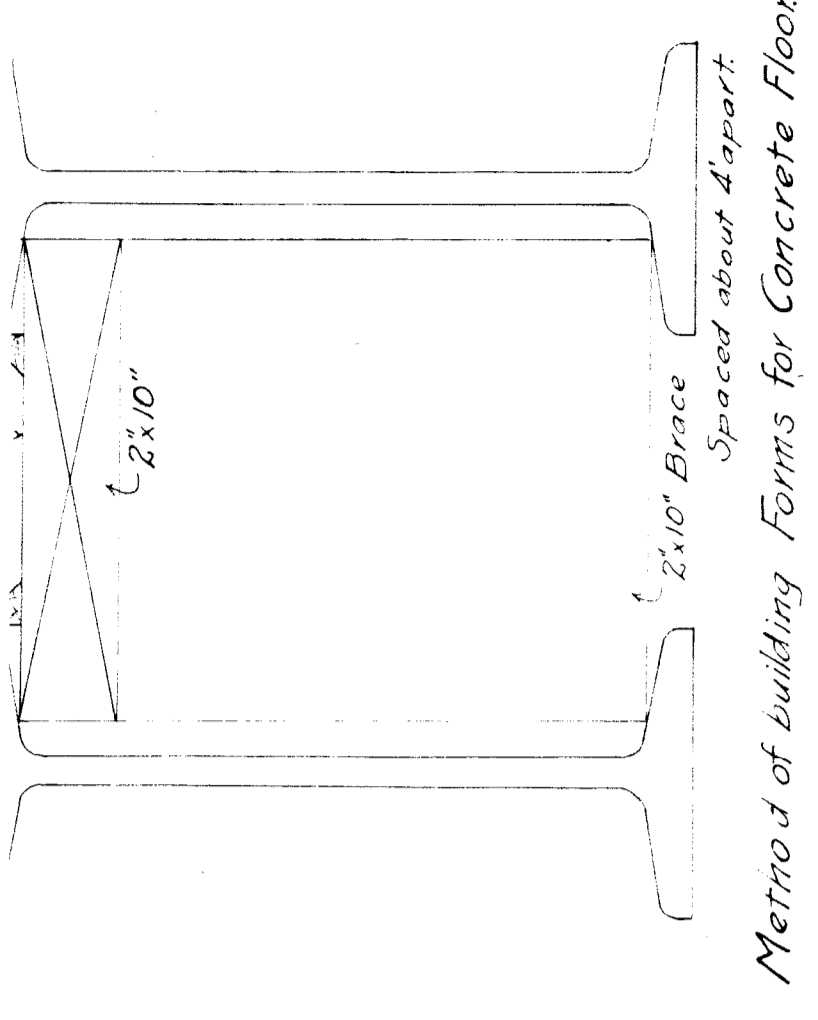


All material steel M.C.R.H. 1904 Specifications
 Plates less than 36" wide to have rolled edges
 Plane sheared edges and ends of all web and web splice plates 1/4"
 Fit end stiffening L's and strims at the bottom
 Fit all stiffening L's at the top
 Drill holes in material more than 3/8" thick
 Rivets in flanges of 9" I's Punch holes 1/8"
 Chisel rivets 3/8"
 Punch holes for rivets in lower flange L and plates, lower 1/3 of web and web splice plates 1/8"
 and ream to 3/8" before assembling in material 3/8" thick and less.
 Drill holes for rivets in lower flange L and plates, lower 1/3 of web and web splice plates 3/8"
 in material more than 3/8" thick
 Punch other holes for rivets 1/8" except in stiff L's, fillers, bracing & battens PL's which can be punched
 Ream all holes for rivets to 3/8" after assembling
 Ream holes for field connections, except in the horizontal leg of side L's and in top flg of
 floor beams, to an iron template
 All casting to be steel, plane top and bottom. Casting to be annealed.
 Plane base plates and cap plates top and bottom.
 Plane posts top and bottom.
 Plane connection of girders.
 Ends of floor beams to be either sawed or planed to bevel.
 Bolt all loose material for shipment.
 Punch holes for 1/2" turned bolts 1" and ream to 1 1/16" to an iron template.

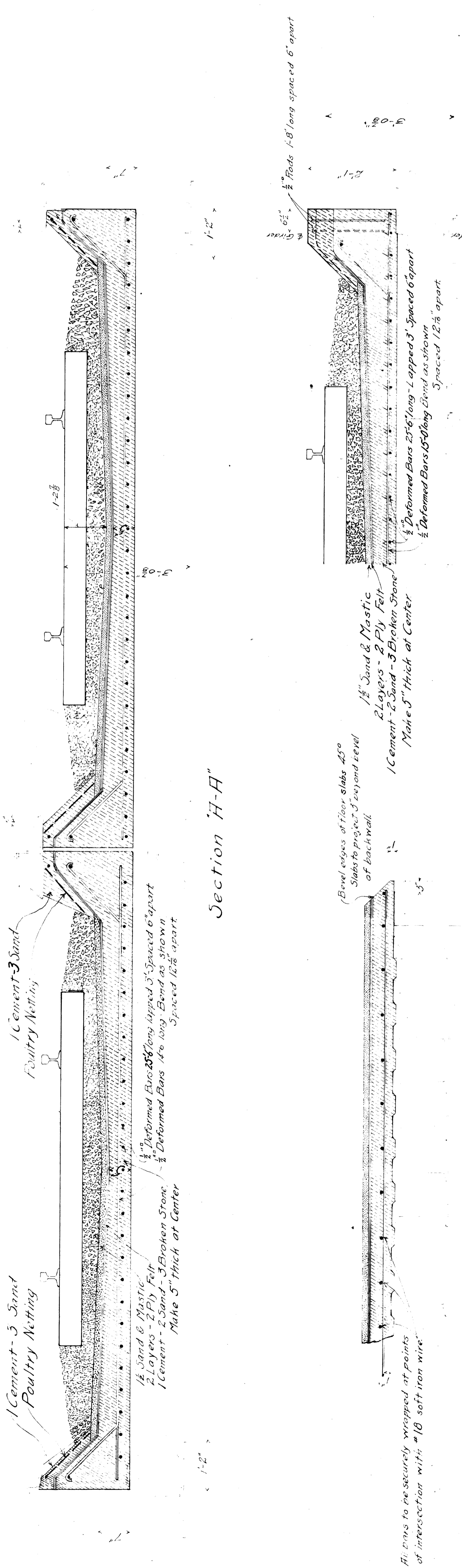
M.C.R.R. Bay City Div
 Bridge 291 - Vinewood Ave
 GENERAL DRAWING
 Scale 1/4" = 1'-0"

Approved: [Signature]
 Bridge Engineer
 June 1908
 10-27-10

FILE XU264 D1

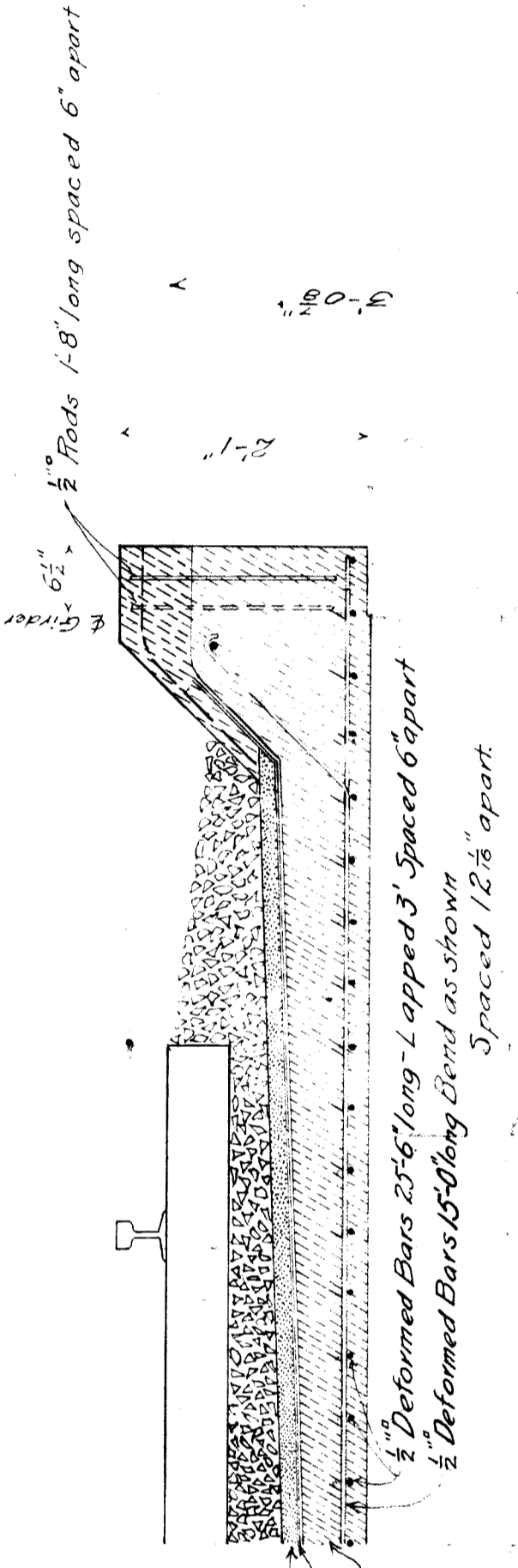


Method of building Forms for Concrete Floor



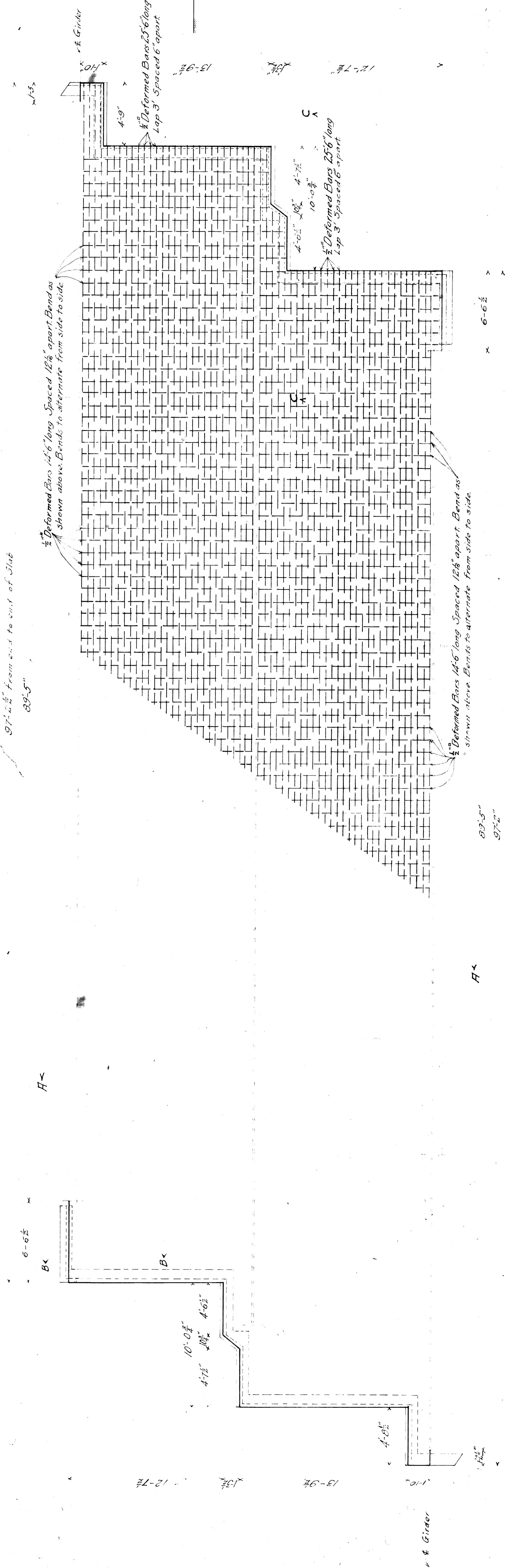
Section H-A

Section of floor through center of bridge, and at back wall



Section B-B

Section looking towards Girder



Bill of Deformed Bars $\frac{1}{2}$ "
 270 - 25'-6" Long
 160 - 14'-6" Long
 16 - 15'-0" Long
 16 - 15'-6" Long

2250 sq feet Sand and Mastic for Waterproofing
 5000 sq feet 2 Ply Felt use Barrett felt and Pitch
 68 cu yds Concrete in floor
 7800# Total weight of Bars

Approved: *G. E. Blum*
 Bridge Engineer

M.C.R.R. Bay City Dix
 Bridge 2nd Vinewood Ave

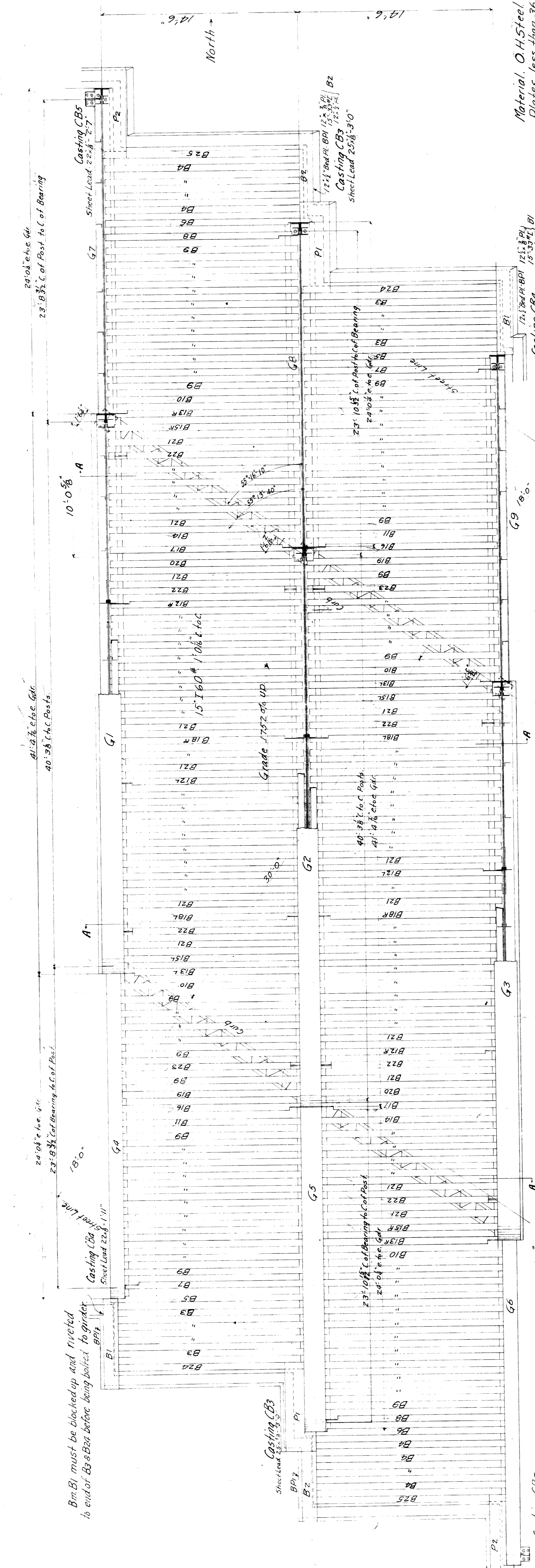
Concrete Floor

Scales $\left\{ \begin{array}{l} \frac{1}{4} = 1'-0" \\ \frac{1}{8} = 1'-0" \end{array} \right.$ CH 111-111-111
 Nov. 1908

File XU 26-5

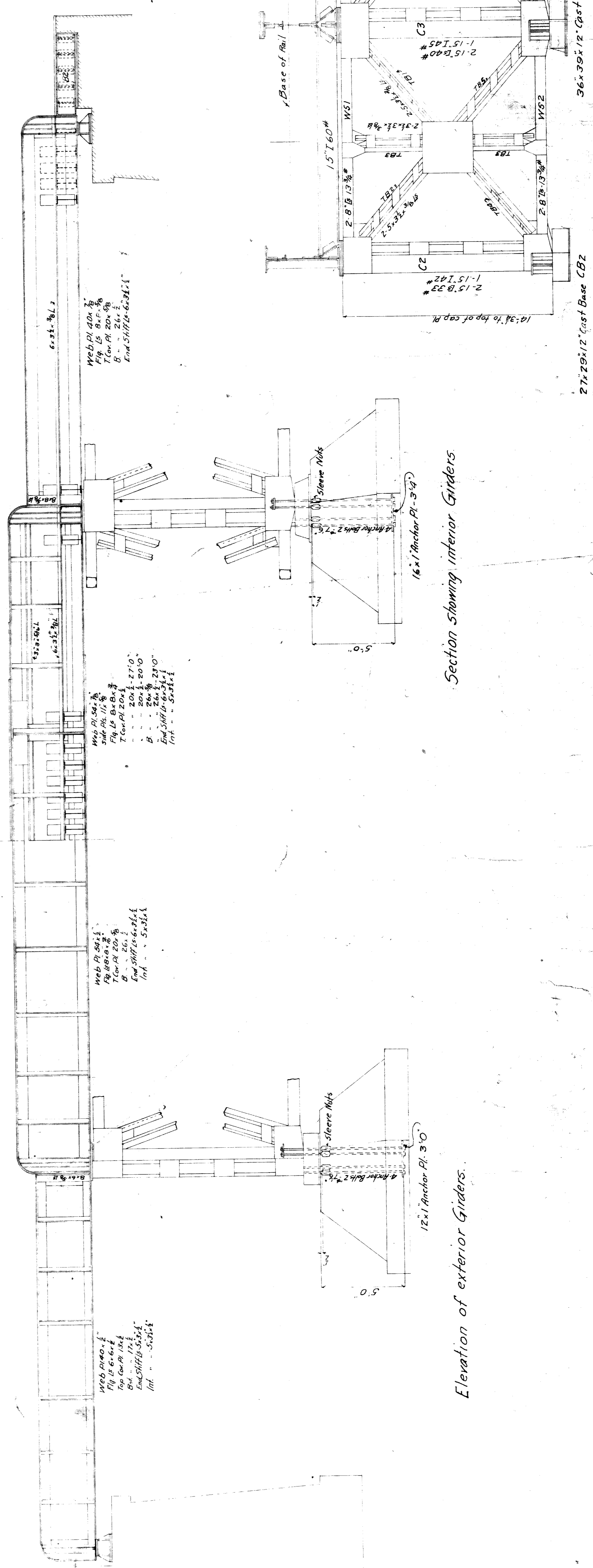
D3

No	Description
1	Diagram
2	Castings
3	Posts
4	Bracing
5	Beams
6	"
7	Girders G1 & 3
8	Girder G2
9	Girders G3 & 8
10	" G4 & 9
11	" G6 & 7



Material, O.H. Steel (M.C.R.R. 1904 Specifications)
 Plates less than 3/8" wide to have rolled edges.
 Sheared edges and end of web splice plates to be planed &
 End stiffener fills fitted at bottom, all stiffener is fitted at top
 Rivets 5/8" except in flanges of B's which are 3/4"
 Holes in material more than 3/8" thick to be drilled.
 Castings to be steel, Plane top & bottom.
 Paint, where used, 1 coat pure linseed oil.
 Parts inaccessible after erection 2 coats of
 following mixture: 64 lbs. dry red lead, 12 1/2 lbs.
 graphite paste & 3 1/2 gal. raw linseed oil, without
 dryer.

Note: See sheet #3 for rivets that must be
 driven before girders are put in place.



Elevation of exterior Girders.

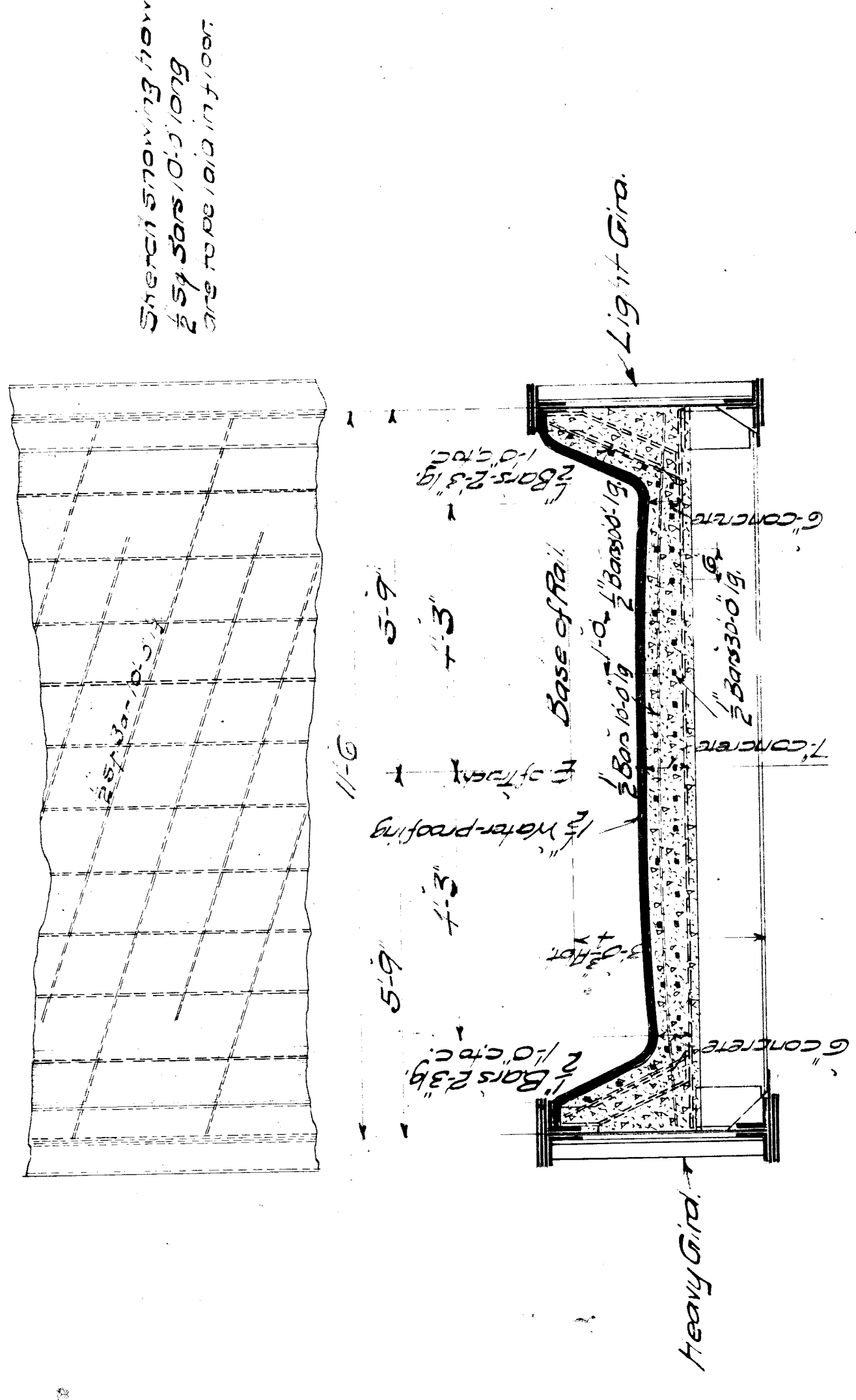
Section showing interior Girders

M.C.R.R. Bay City Div.
 Bridge 291 Vinewood Ave. Detroit, Mich.
 Diagram

Scale 1/4" = 1'-0"

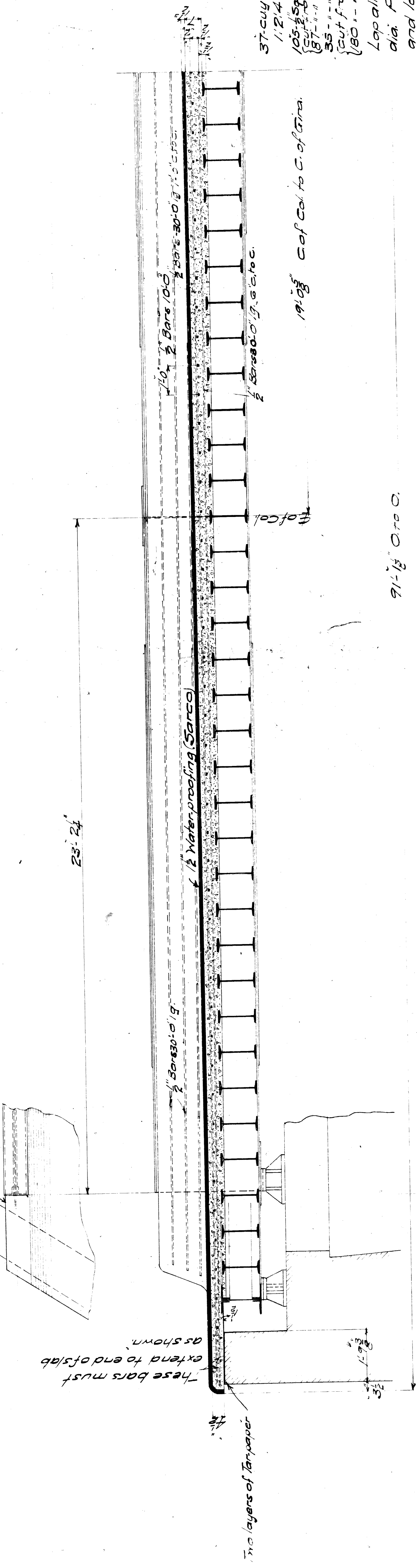
AMERICAN BRIDGE COMPANY, PLANT
 ORDER ASSIGNED TO - Detroit
 WORK FABRICATED AT - Detroit
 MADE AT - Detroit
 DRAWN BY - HENRY
 IN CHARGE OF - HENRY
 DATE - 9-19-08
 CHECKED BY -
 ORDER NO. -
 SHEET NO. - 1

Section AA - (Both beams the same)

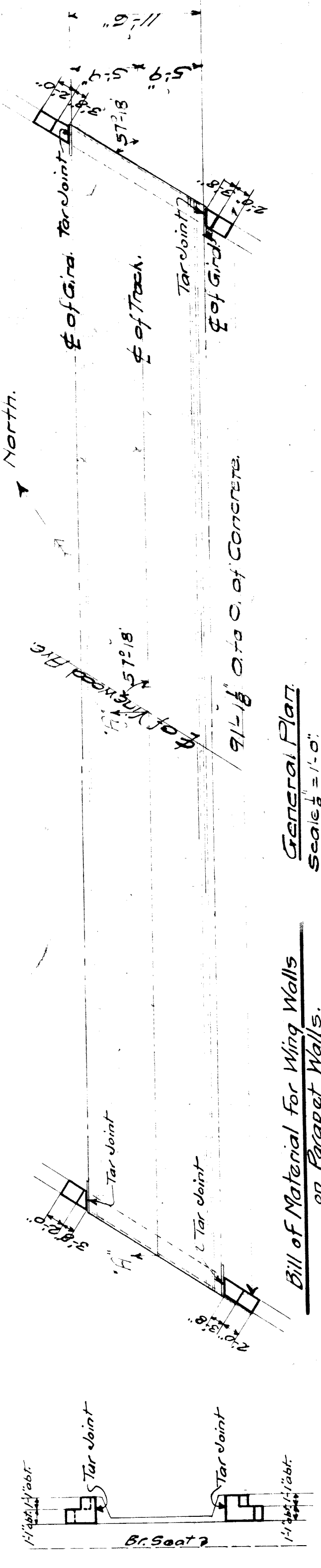


Section thru Girde at E. of Vinewood Pls.

Concrete to be built flat with top of parapet original



Section on E. of Track - 22



End Elevation Showing Wing Walls on Parapet Wall.

Bill of Material for Wing Walls on Parapet Walls.
 2 1/2 - cu. yds. concrete 1:3:6 mix.
 12 - sacks cement
 1 1/4 - cu. yd. sand.
 2 1/2 - cu. yds. stone.

General Plan Scale 1/4" = 1'-0"

Material Order
 37-cu. yds. concrete
 12.4 Mixture
 105 # 5g. bars 30'-0" long - 567 #
 87 # 5g. bars 24'-0" long - 427 #
 35 # 5g. bars 10'-0" long - 175 #
 180 # 5g. bars 2'-3" long - 343 #
 Total 3938 #
 2-17 cu. yds.
 Lap all bars at least 40 times their least dia.
 Place transverse bars parallel to abutts. and longitudinal bars parallel to tracks.
 Bars to be corrugated
 1/175 sq. ft. of Sarco 1/2" thick.

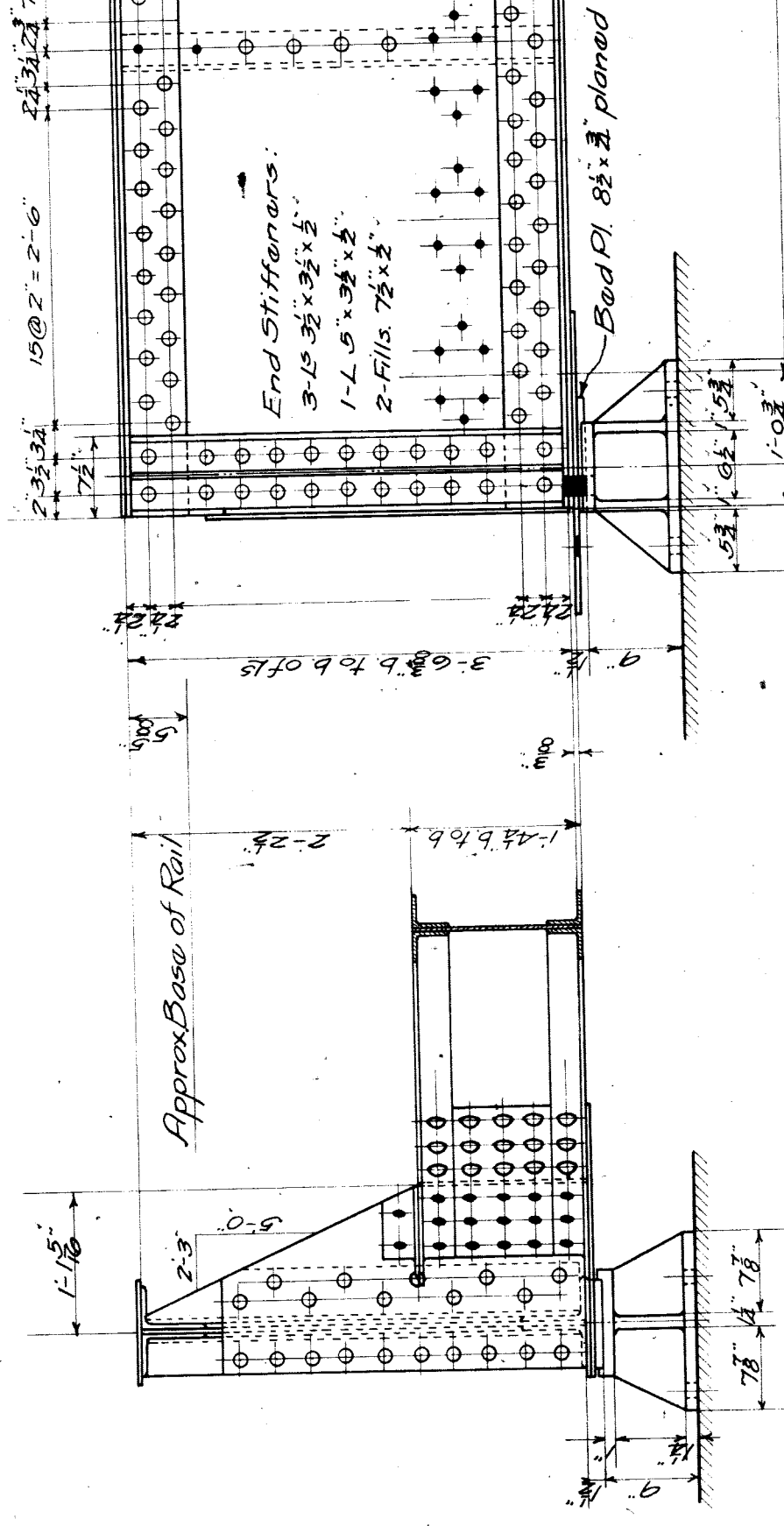
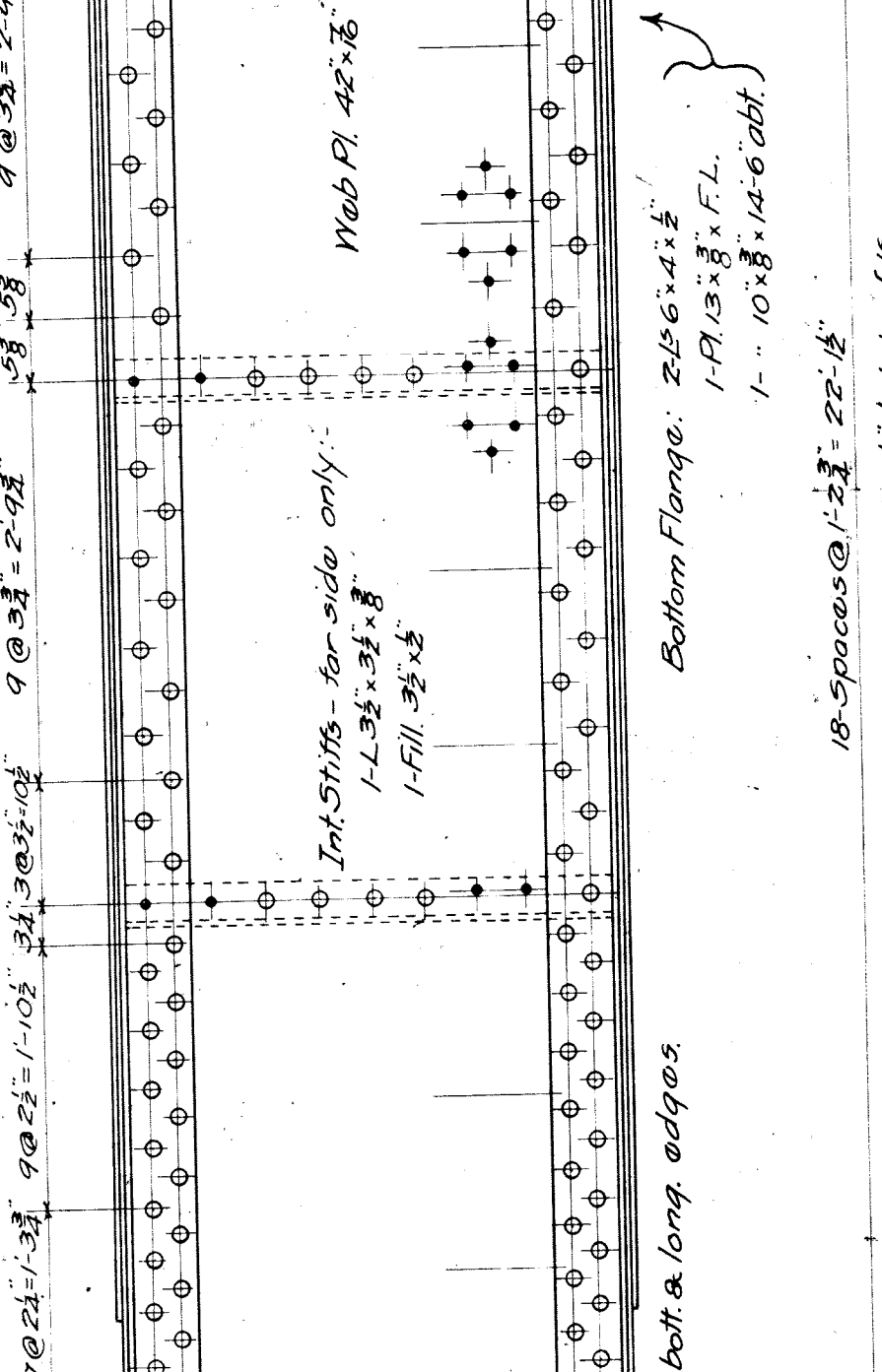
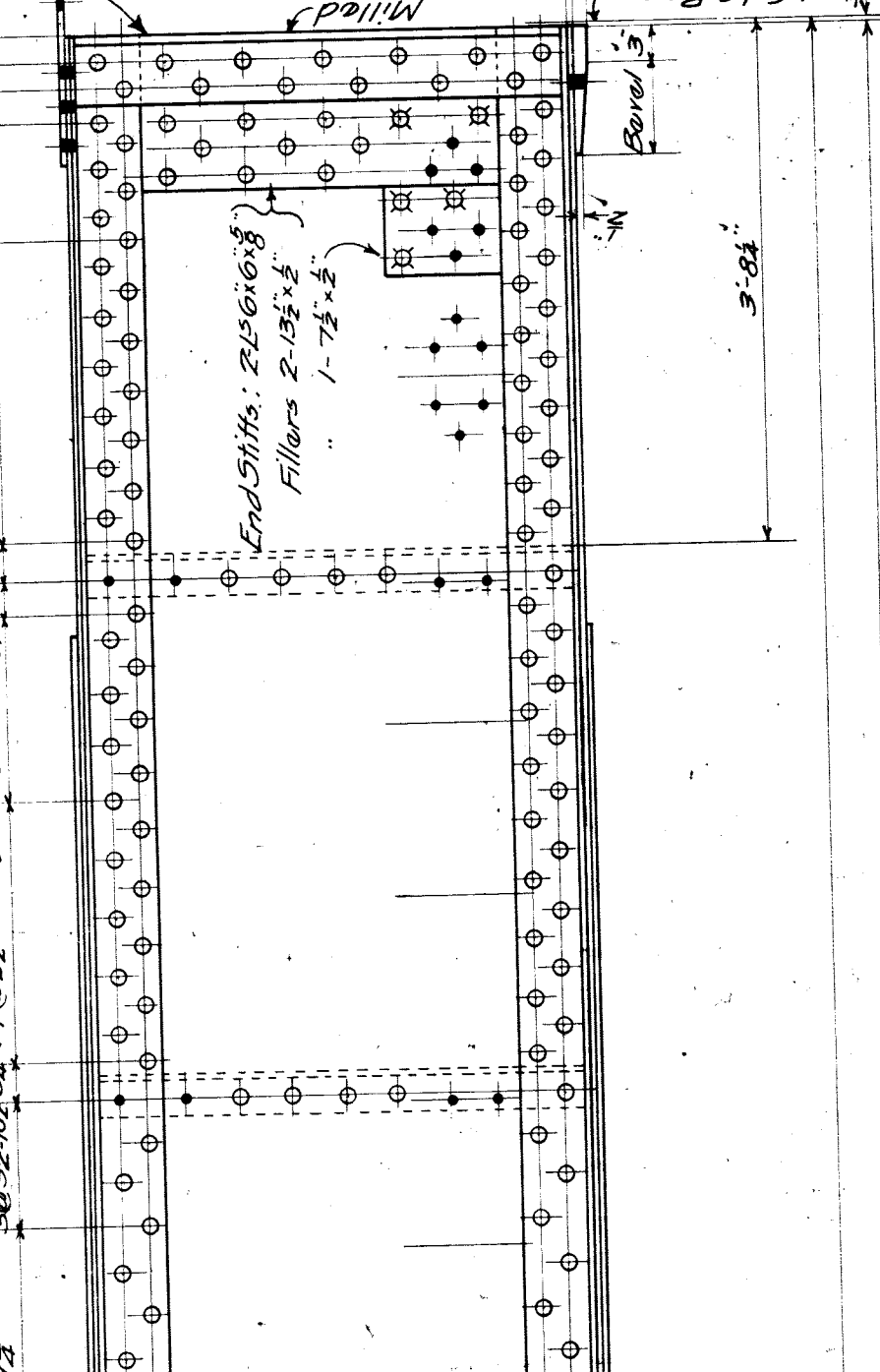
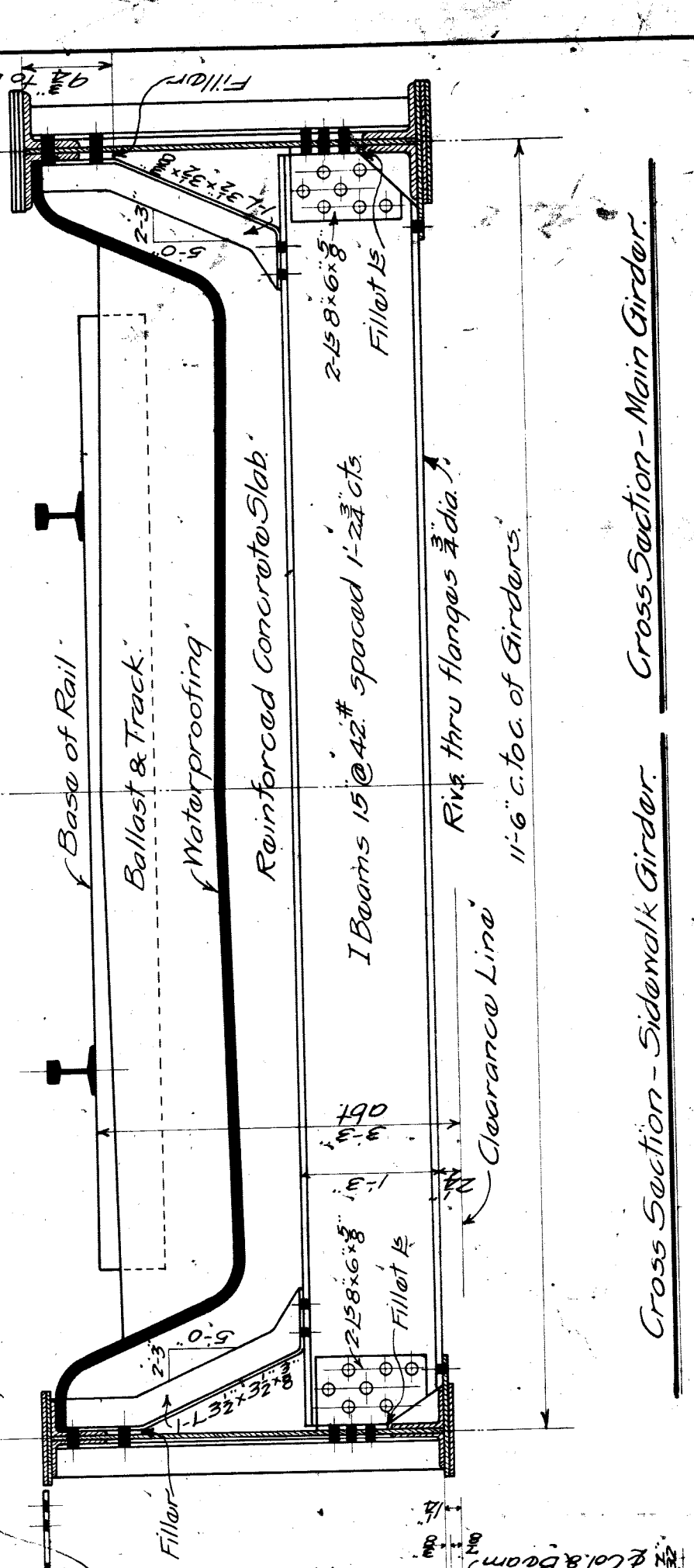
Revised 2-23-19
 L.S. + M.S.R. Bridge Dept. S. Hasenwell
 Over Vinewood Pls.
 Detroit Manager
 Concrete Slab
 S. Hasenwell
 Jan. 21-1912
 Drawing B2770-B

Top Flange: 2-15 1/2 x 4 1/2
 1-12 1/2 x 8 1/2 F.L.
 Riv spacing for copls same as bottom, except at ends

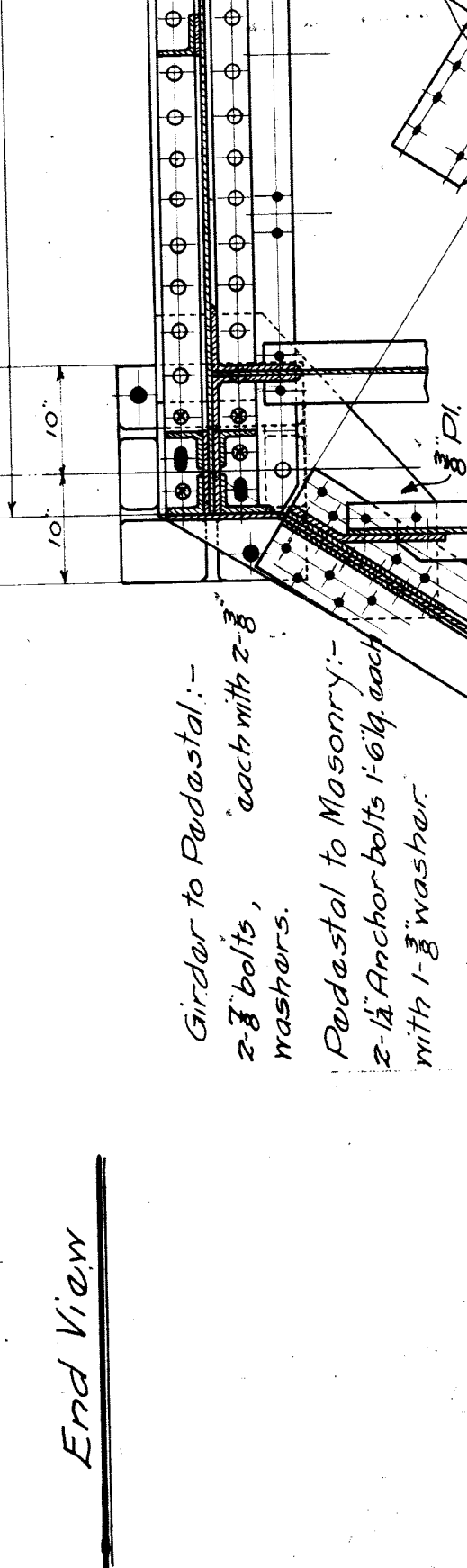
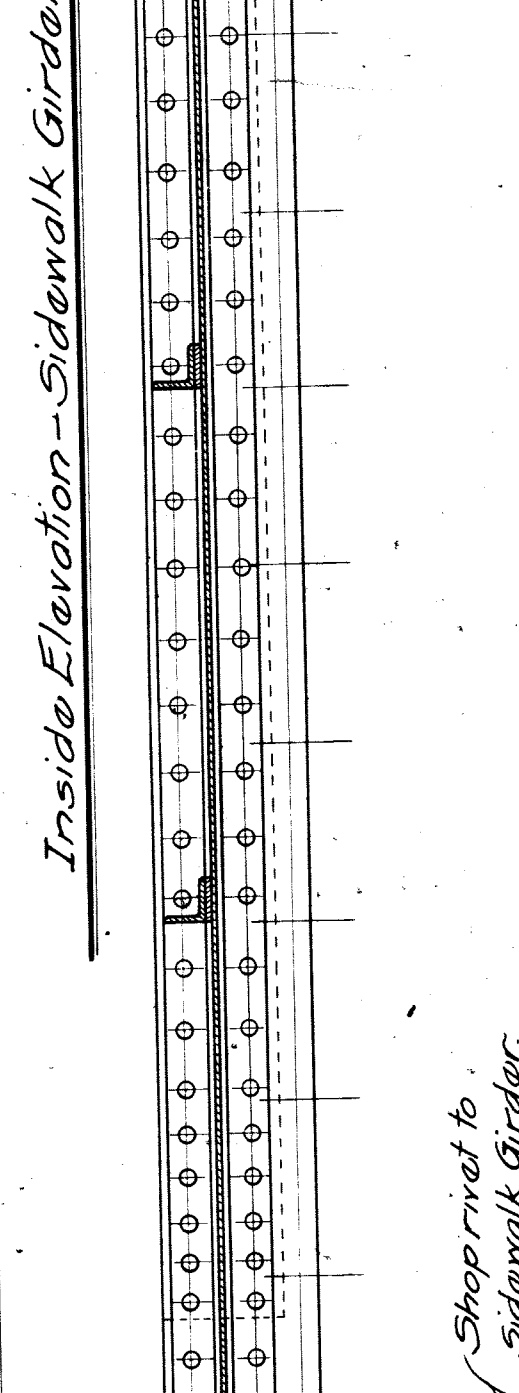
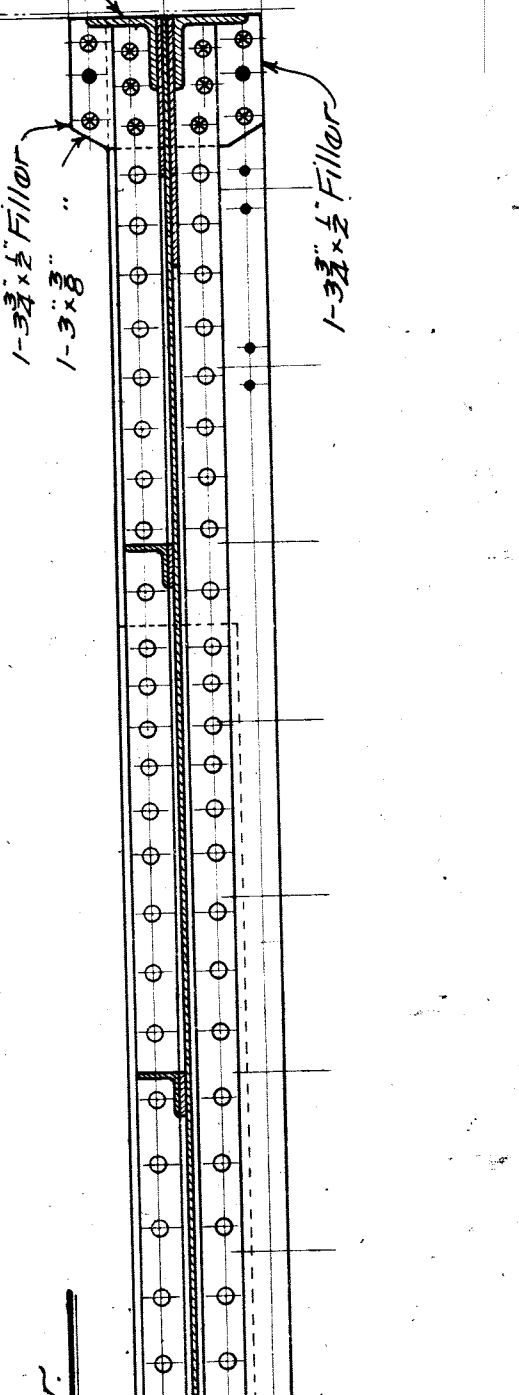
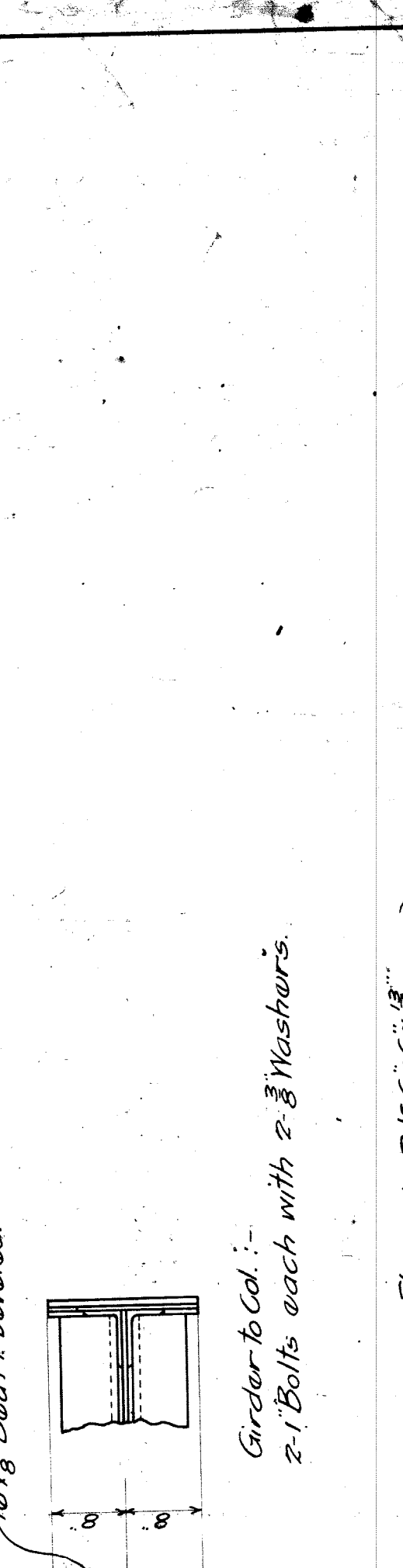
End Stiffeners:
 3-15 3/8 x 3 1/2
 1-L 5 x 3 1/2
 2-Fills 7 1/2 x 3

Bottom Flange: 2-15 1/2 x 4 1/2
 1-12 1/2 x 8 1/2 F.L.
 1-10 1/2 x 8 1/2 12-6 obt

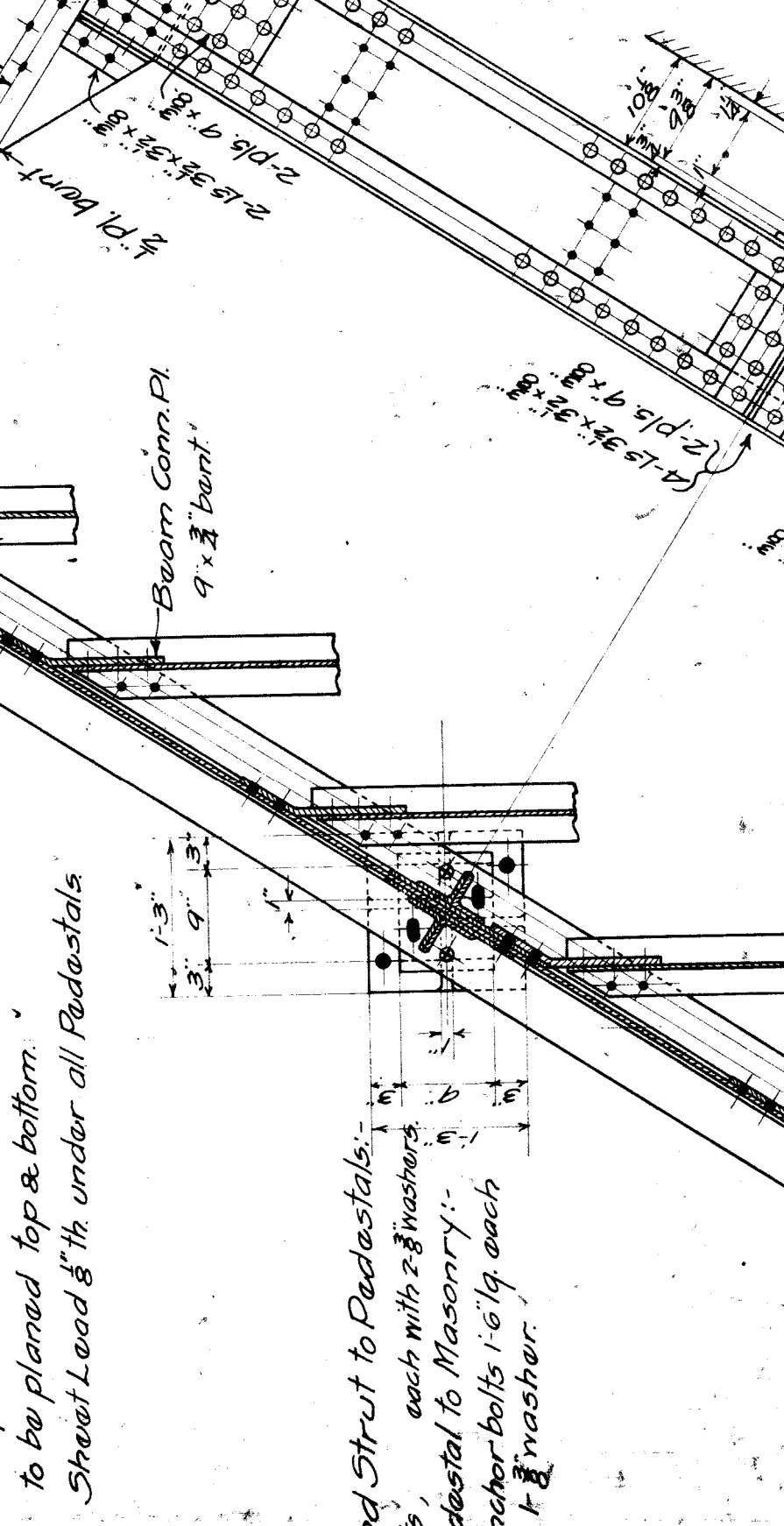
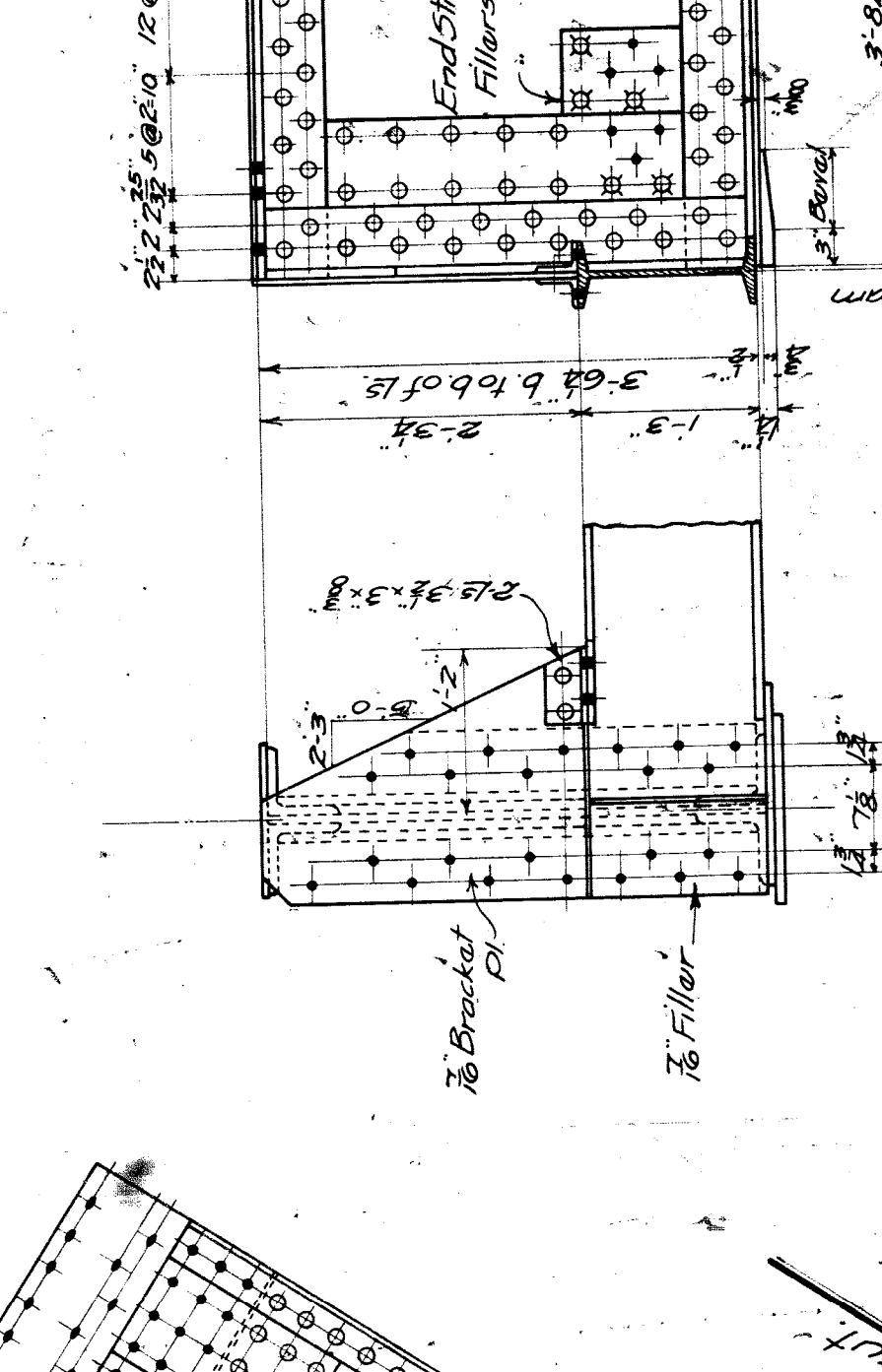
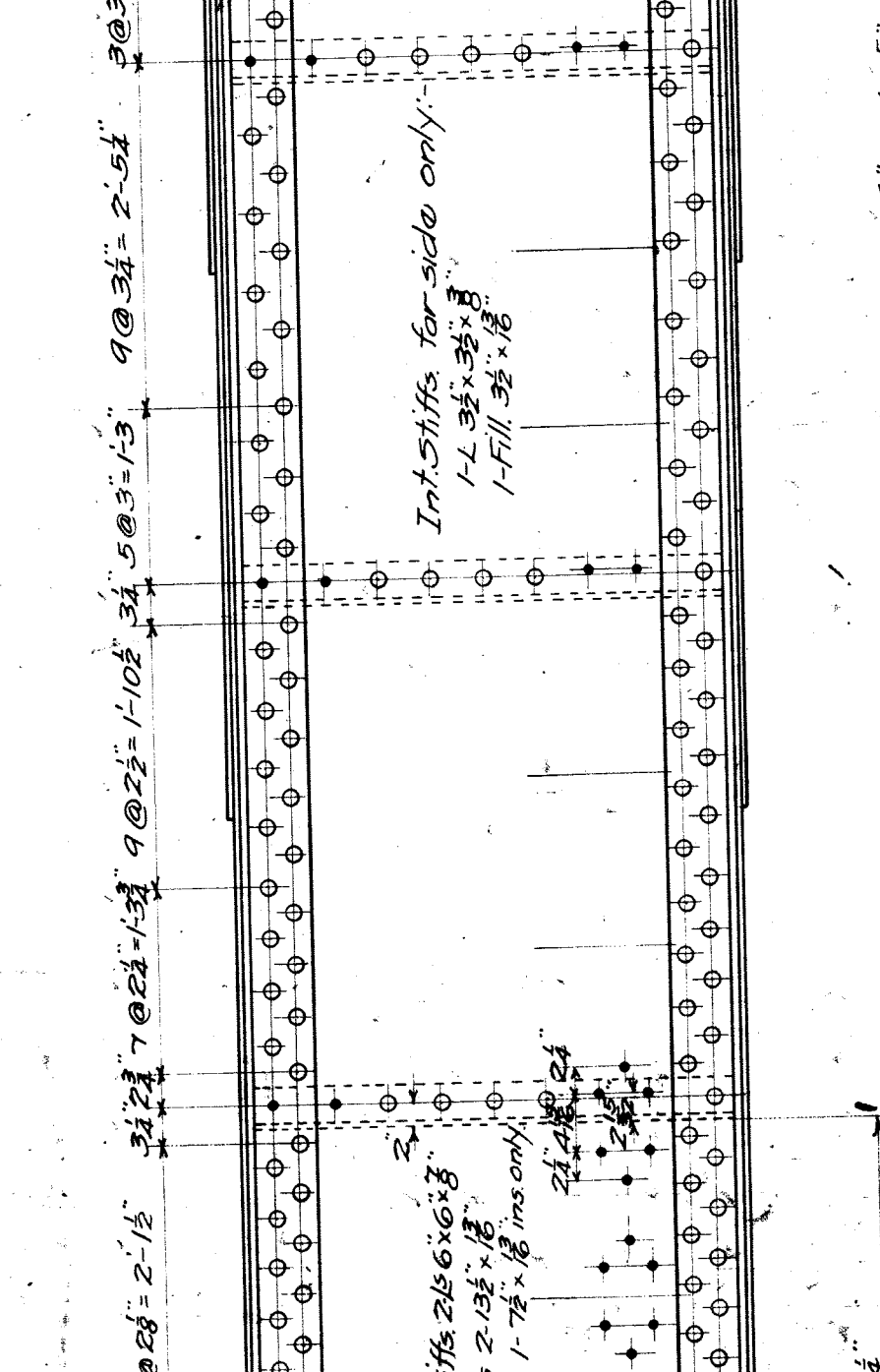
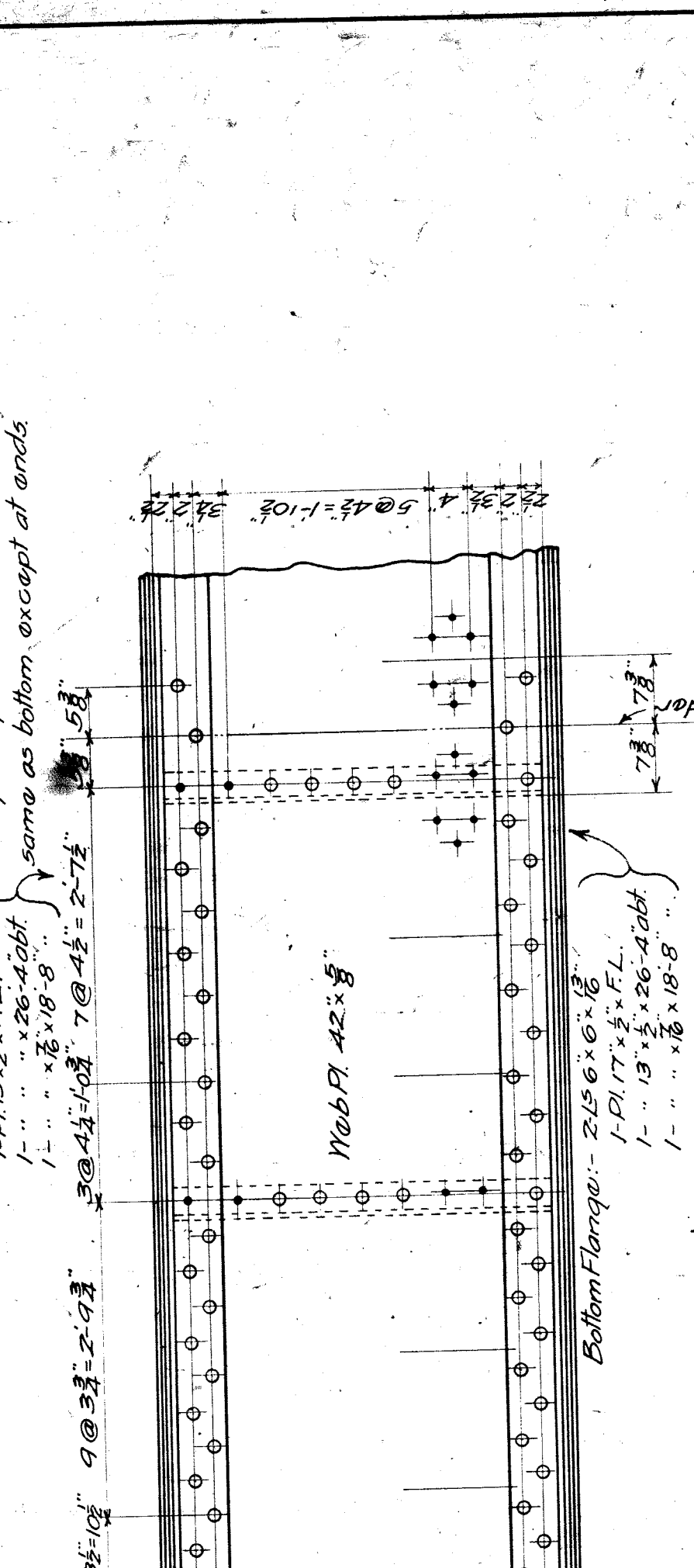
18-spaces @ 1-2 3/4 = 22-1/2
 23-2 3/4 b. top of S



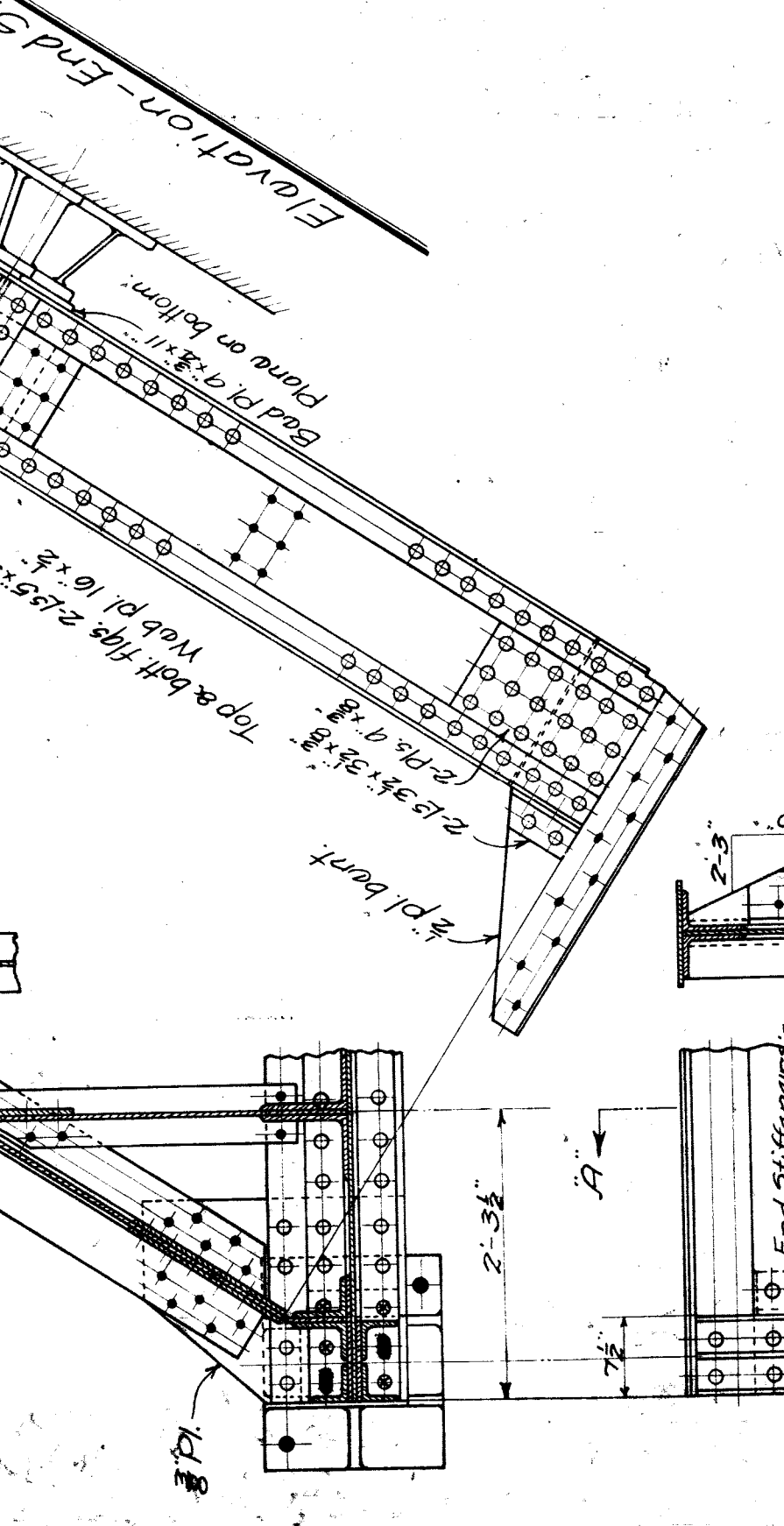
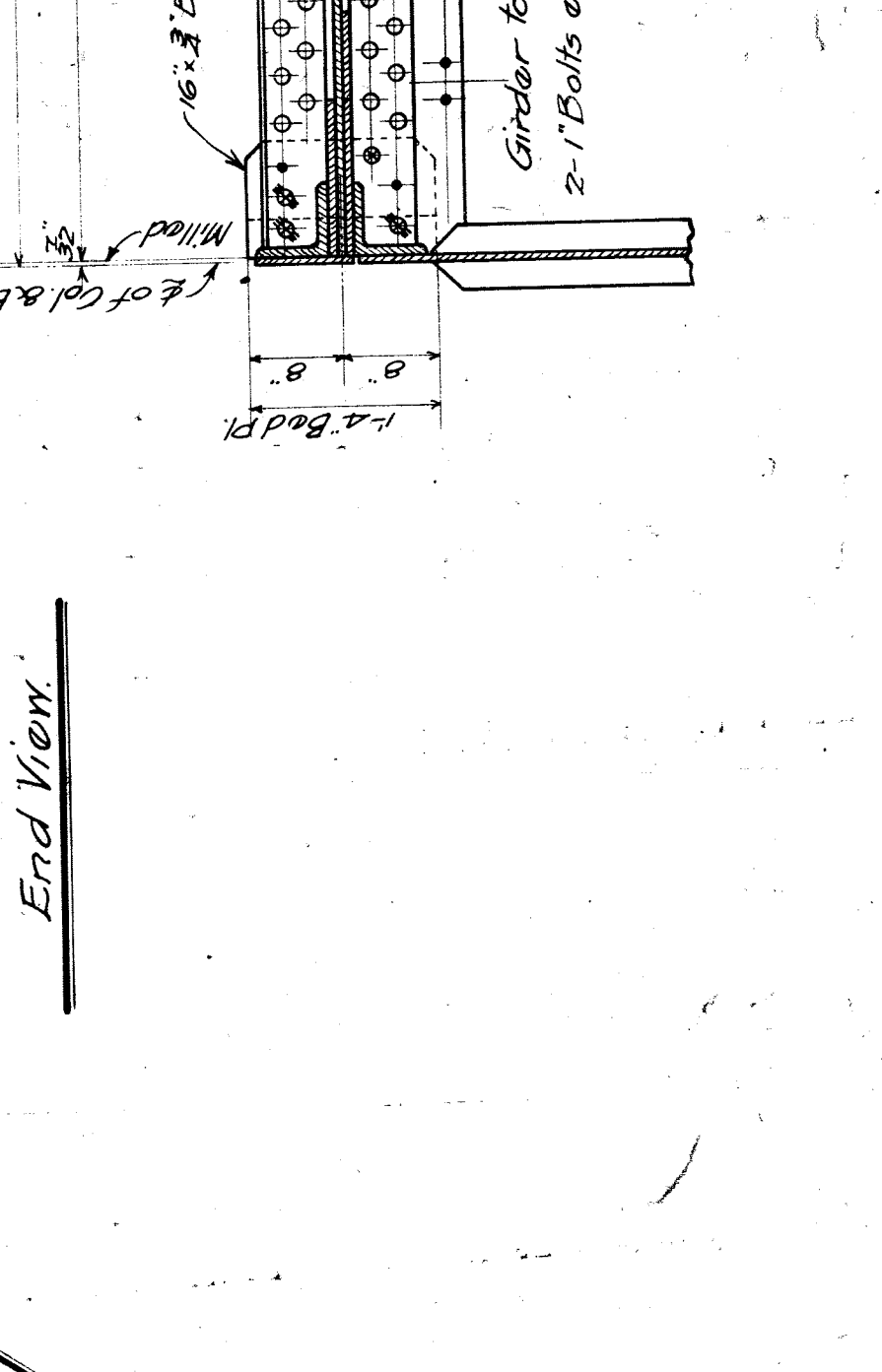
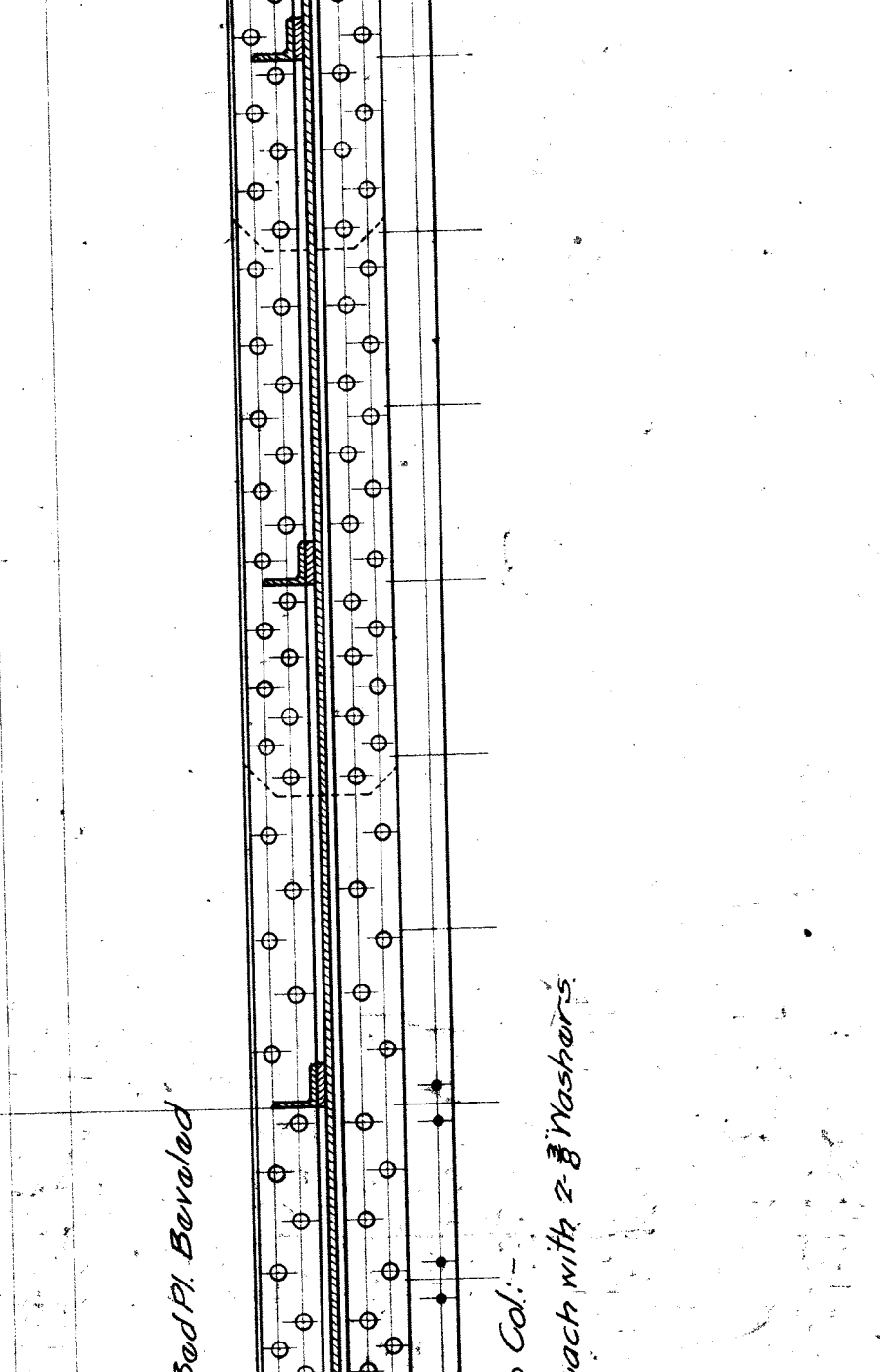
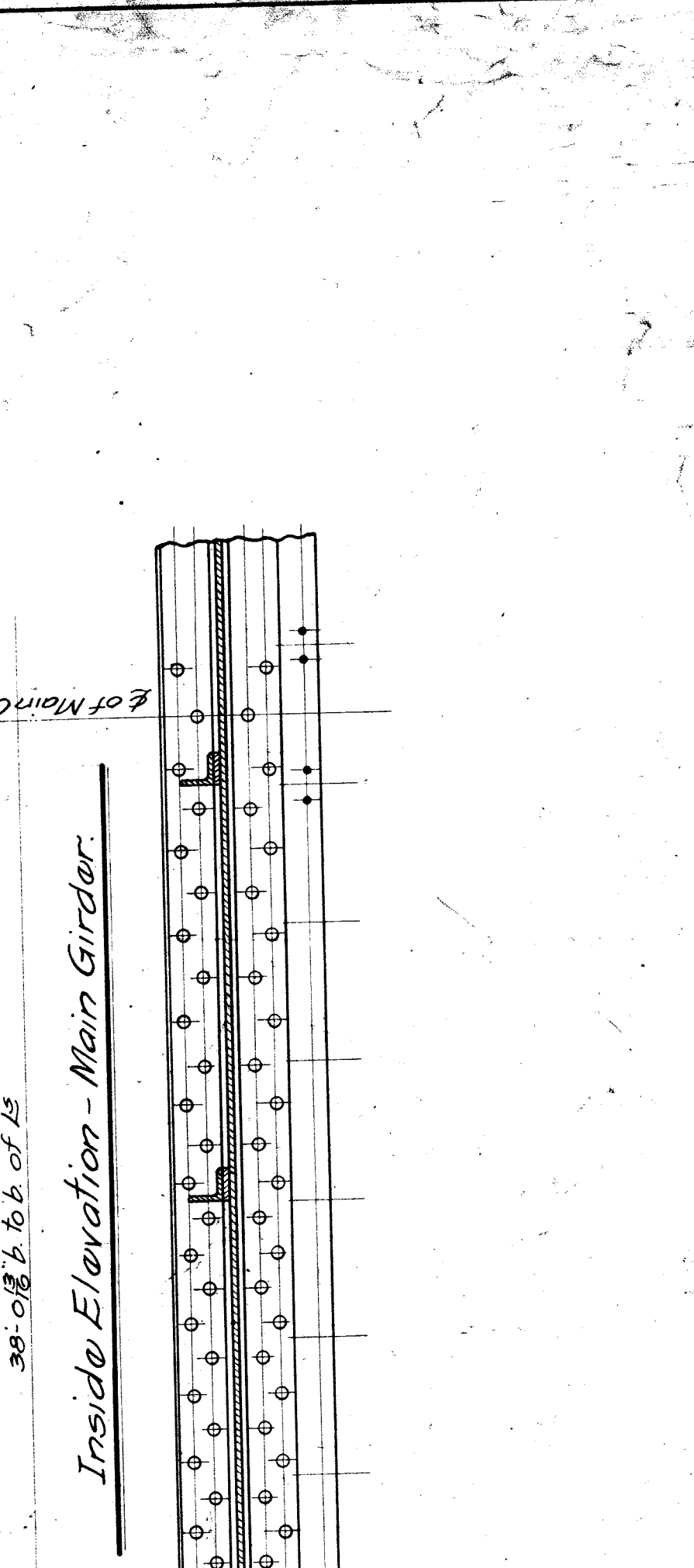
Girder to Pedestal:
 2-3 bolts, each with 2-3 washers.
 Pedestal to Masonry:
 2-1/2 Anchor bolts 1-1/4" each with 1-3/8" washer.



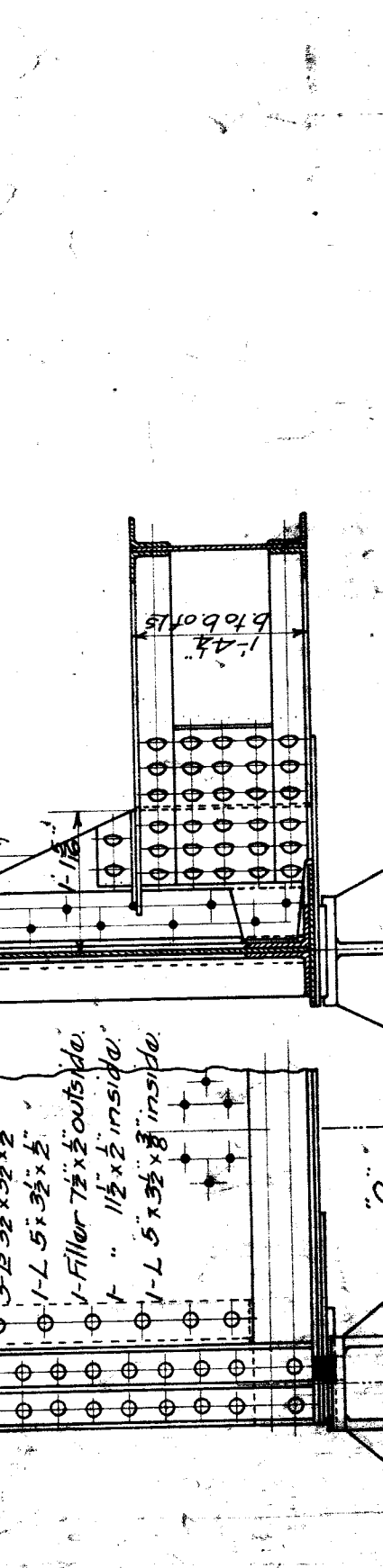
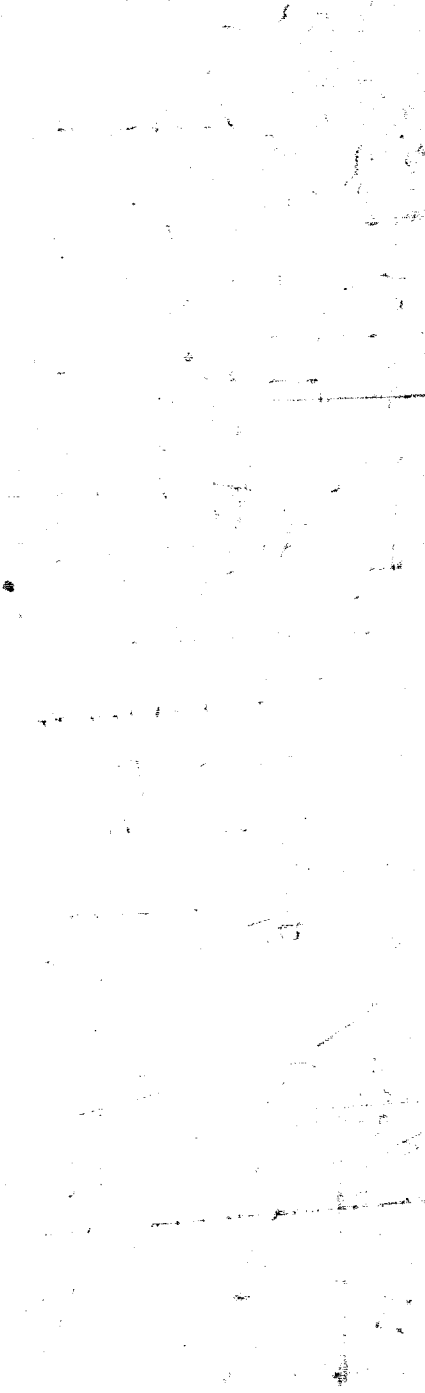
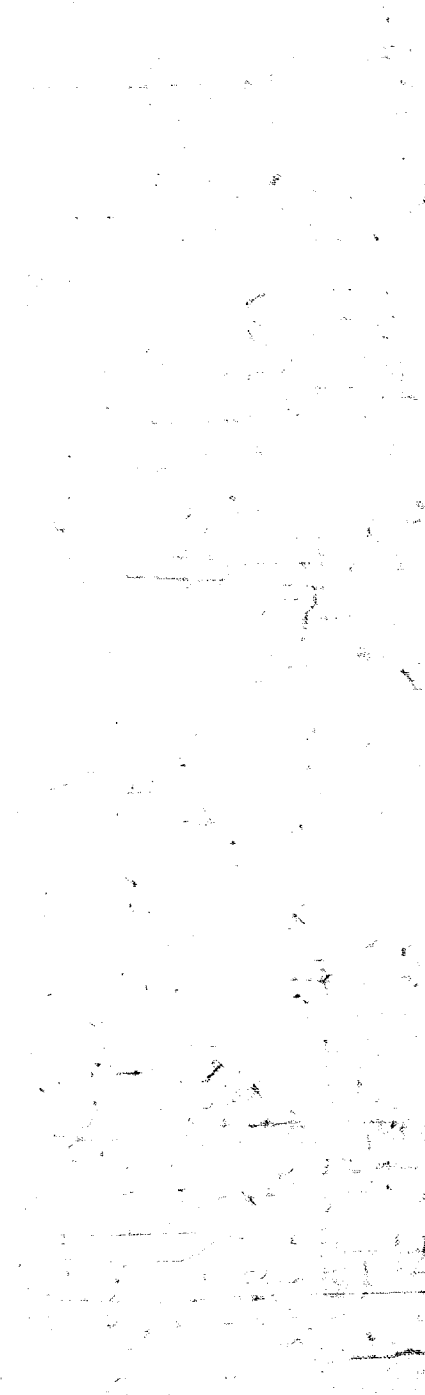
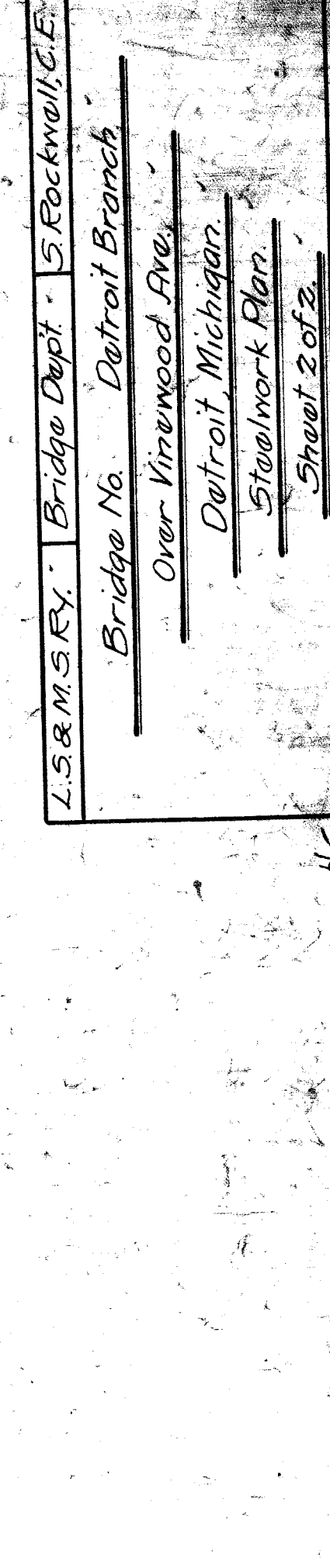
All pedestals are Cast Steel, to be planed top & bottom. Sheet Lead 8"th under all pedestals



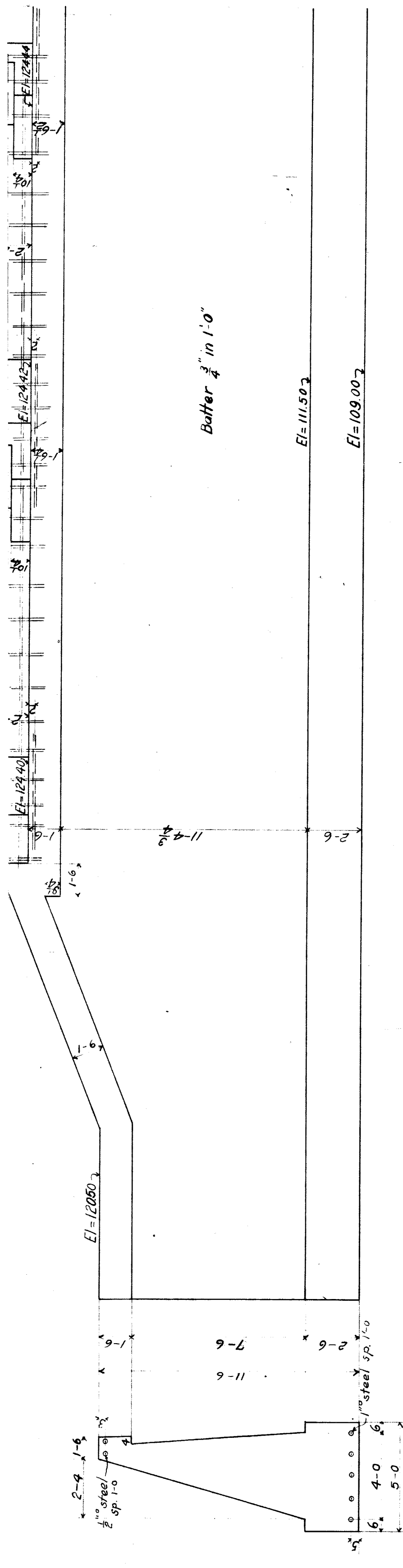
End Strut to Pedestals:
 2-3 bolts, each with 2-3 washers.
 Pedestal to Masonry:
 2-1/2 Anchor bolts 1-1/4" each with 1-3/8" washer.



End Strut to Pedestals:
 2-3 bolts, each with 2-3 washers.
 Pedestal to Masonry:
 2-1/2 Anchor bolts 1-1/4" each with 1-3/8" washer.

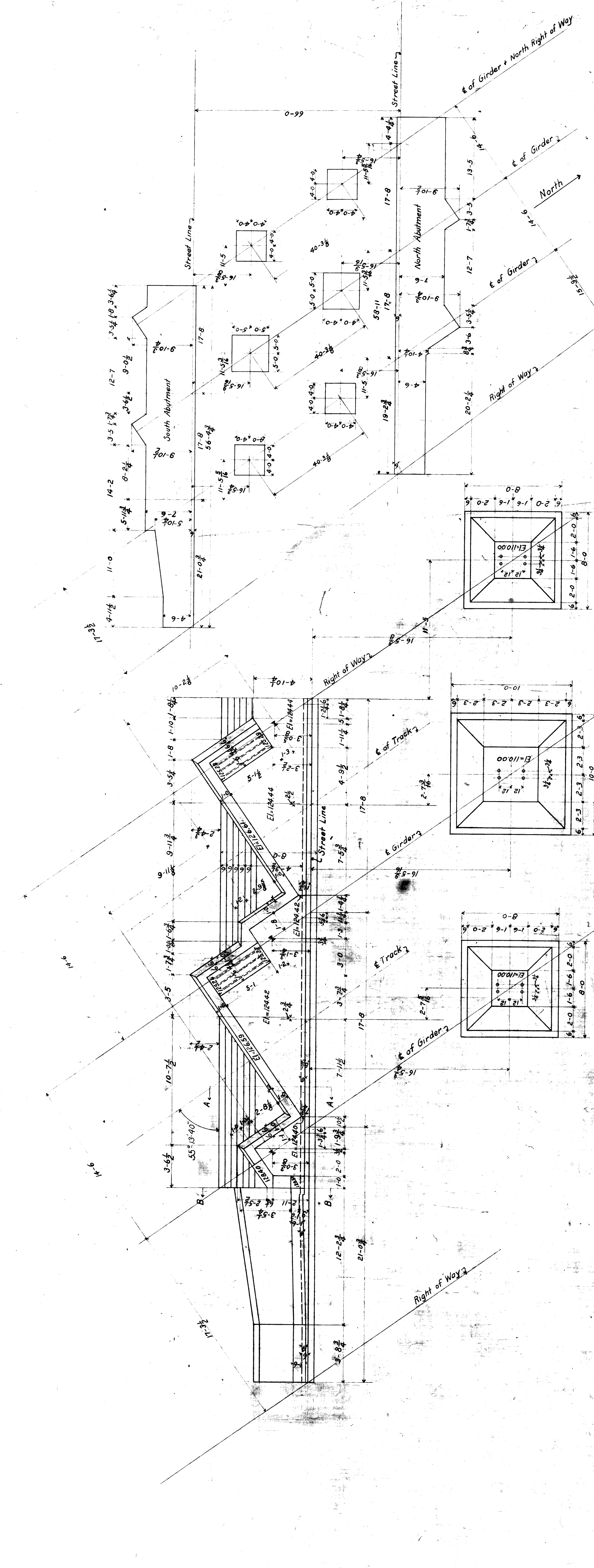


End Strut to Pedestals:
 2-3 bolts, each with 2-3 washers.
 Pedestal to Masonry:
 2-1/2 Anchor bolts 1-1/4" each with 1-3/8" washer.



Butter 3/4" in 1'-0"

EI = 11150.7
EI = 09.007

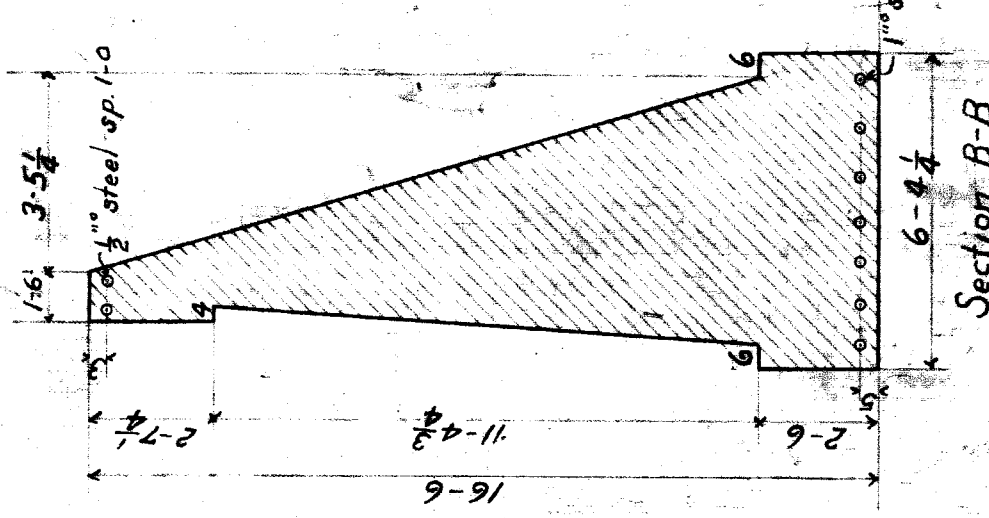
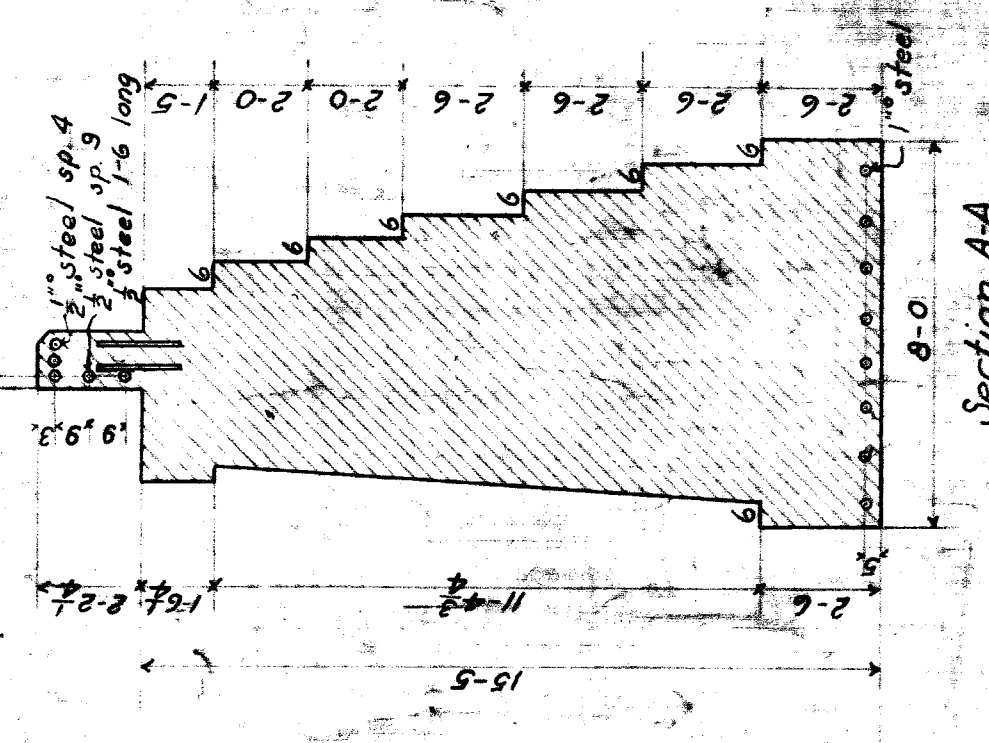
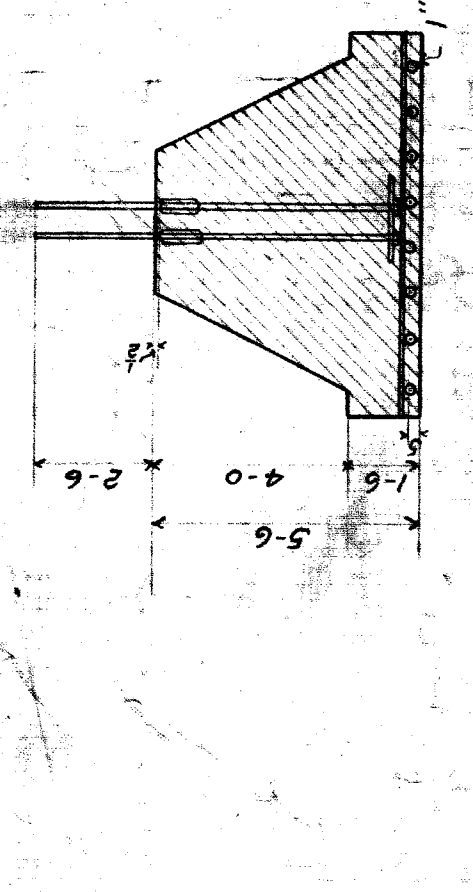
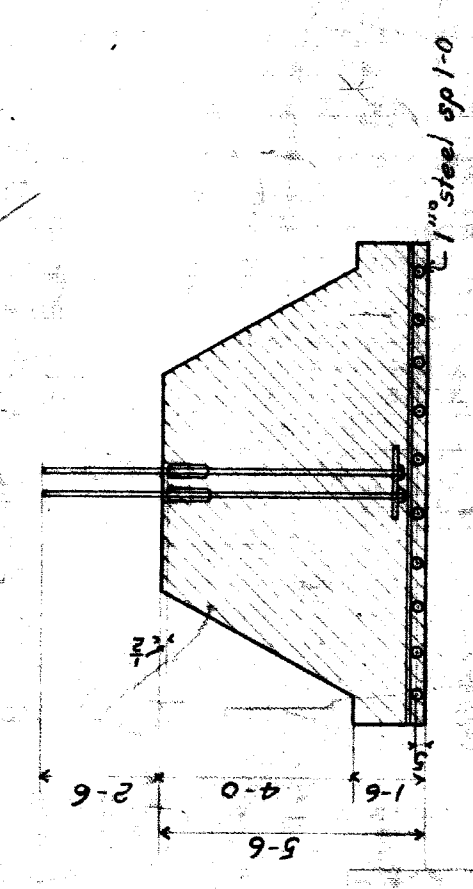


SPECIFICATIONS

Make top 6 of bridge and beam seats and of piers 1 part Portland cement 2 parts sand.
Make next 1-6 of bridge and beam seats and of piers, 1 part Portland cement, 2 parts sand, 3 parts broken stone.
Make rest of masonry 1 part Portland cement, 2 1/2 parts sand, 4 1/2 parts broken stone.
Face all exposed surfaces with 1/2 mortar.

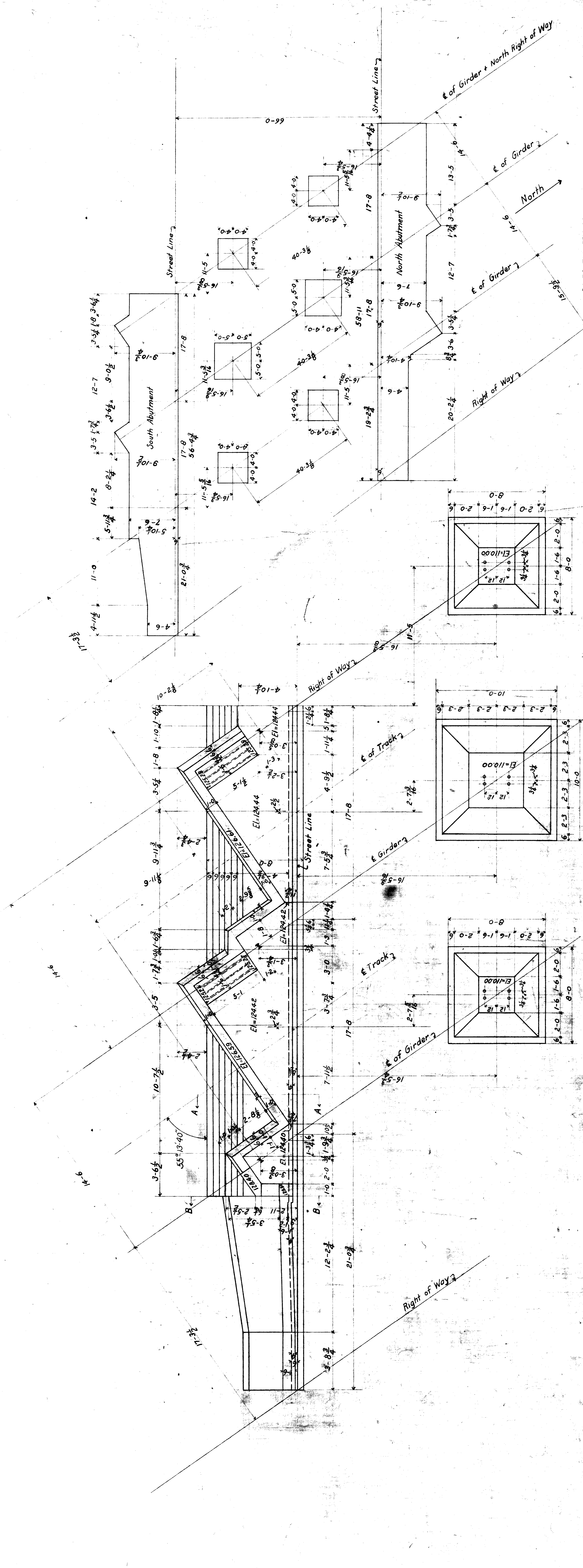
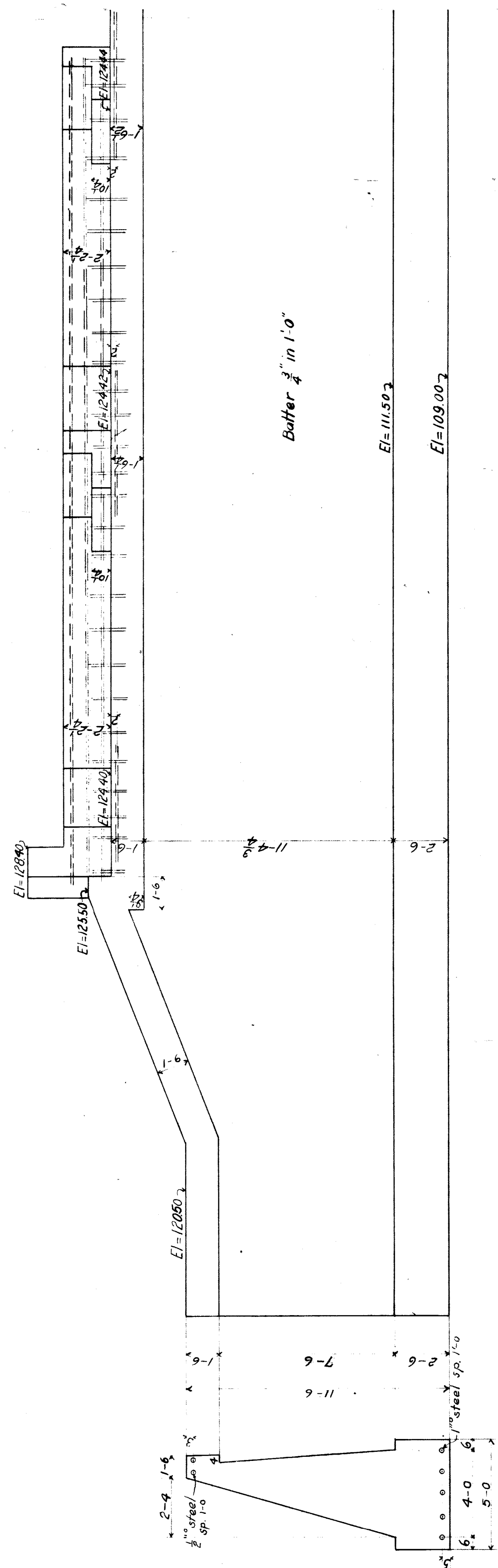
CONTENTS

Abutment 188 cu.yds.
Piers 29 cu.yds.



M.C.R.R. Bay City Div
Bridge 29 1/2 Vinewood Ave
South Abutment and Piers
Scale 1/4" = 1'-0"
July 1908

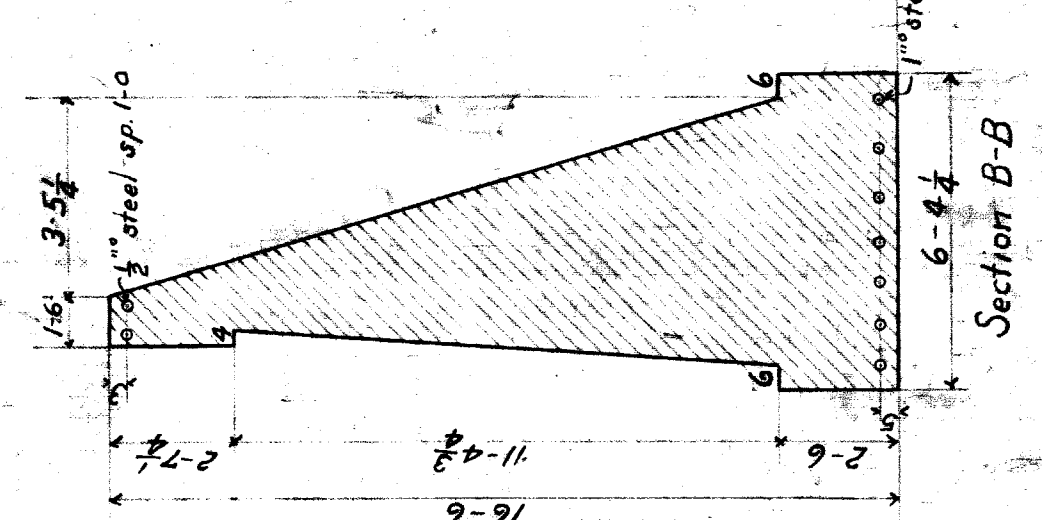
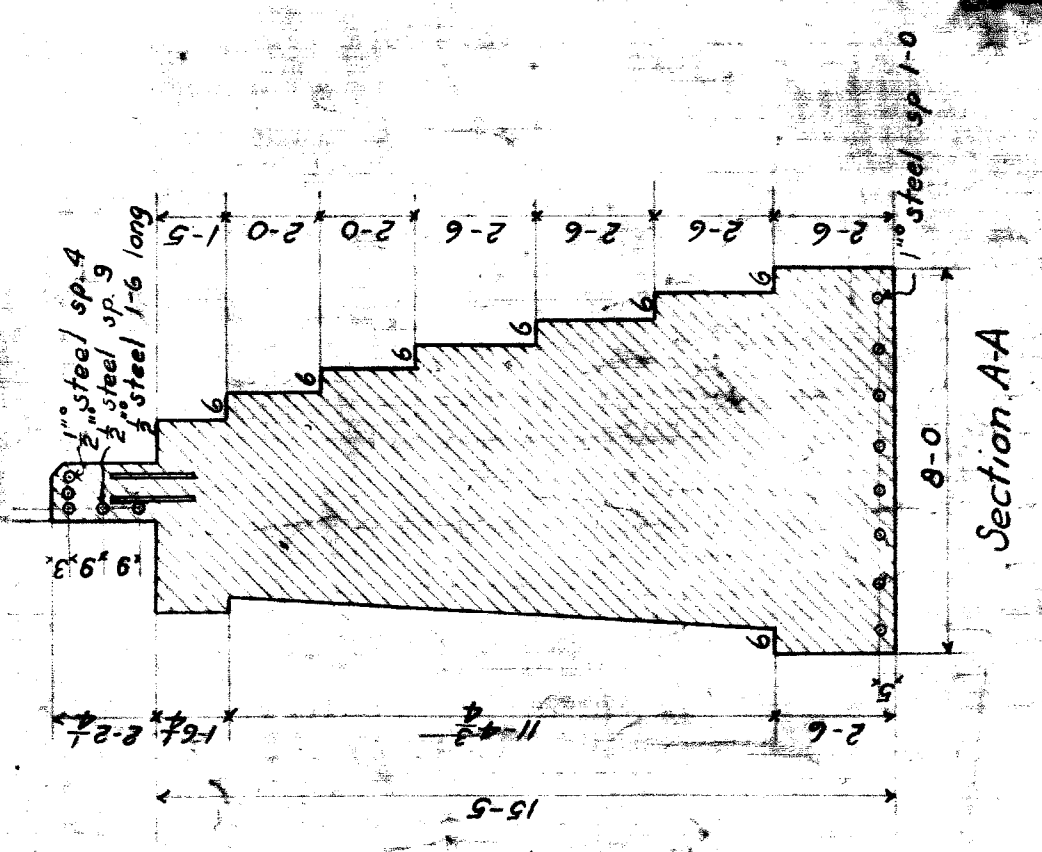
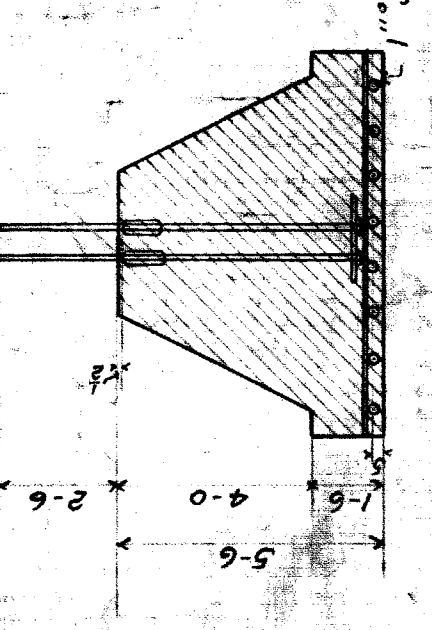
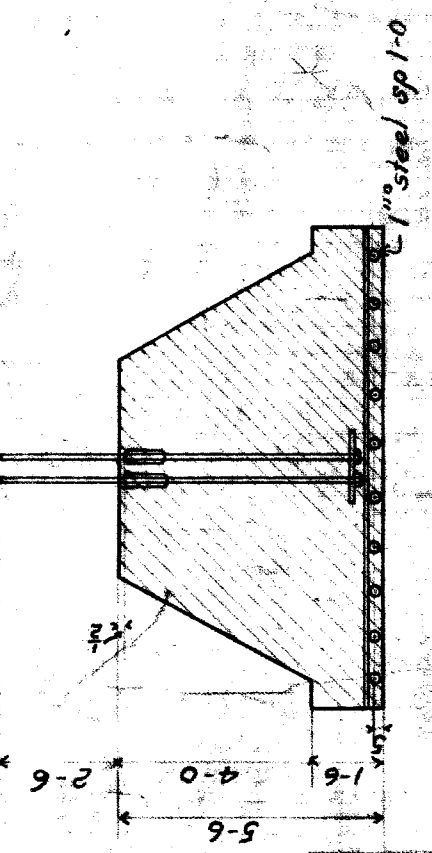
Approved
W. C. Shaw
Bridge Engineer



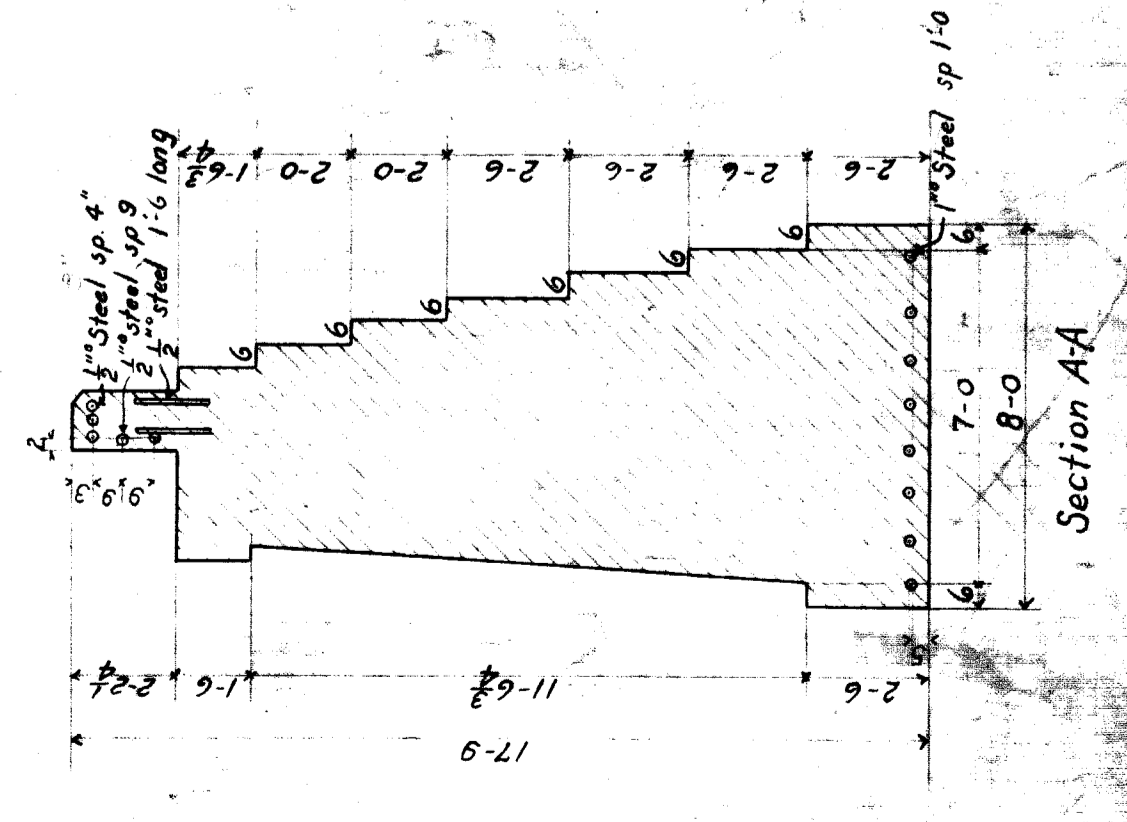
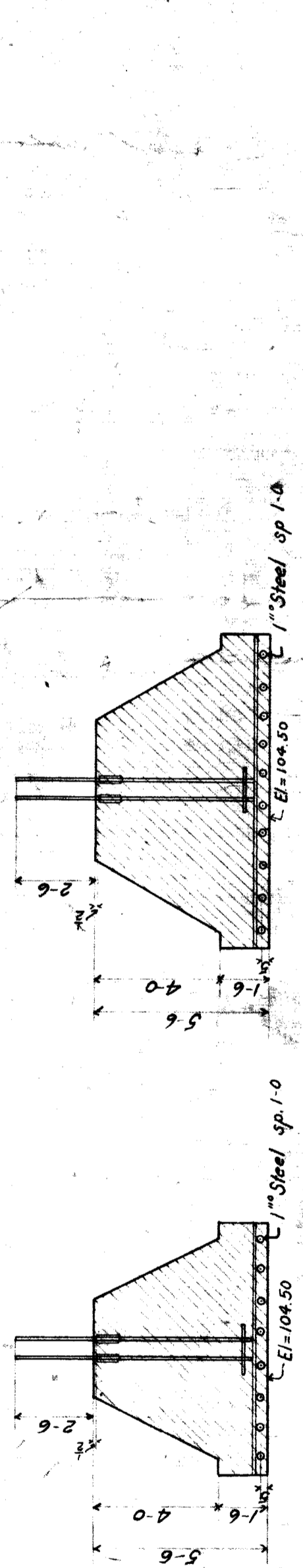
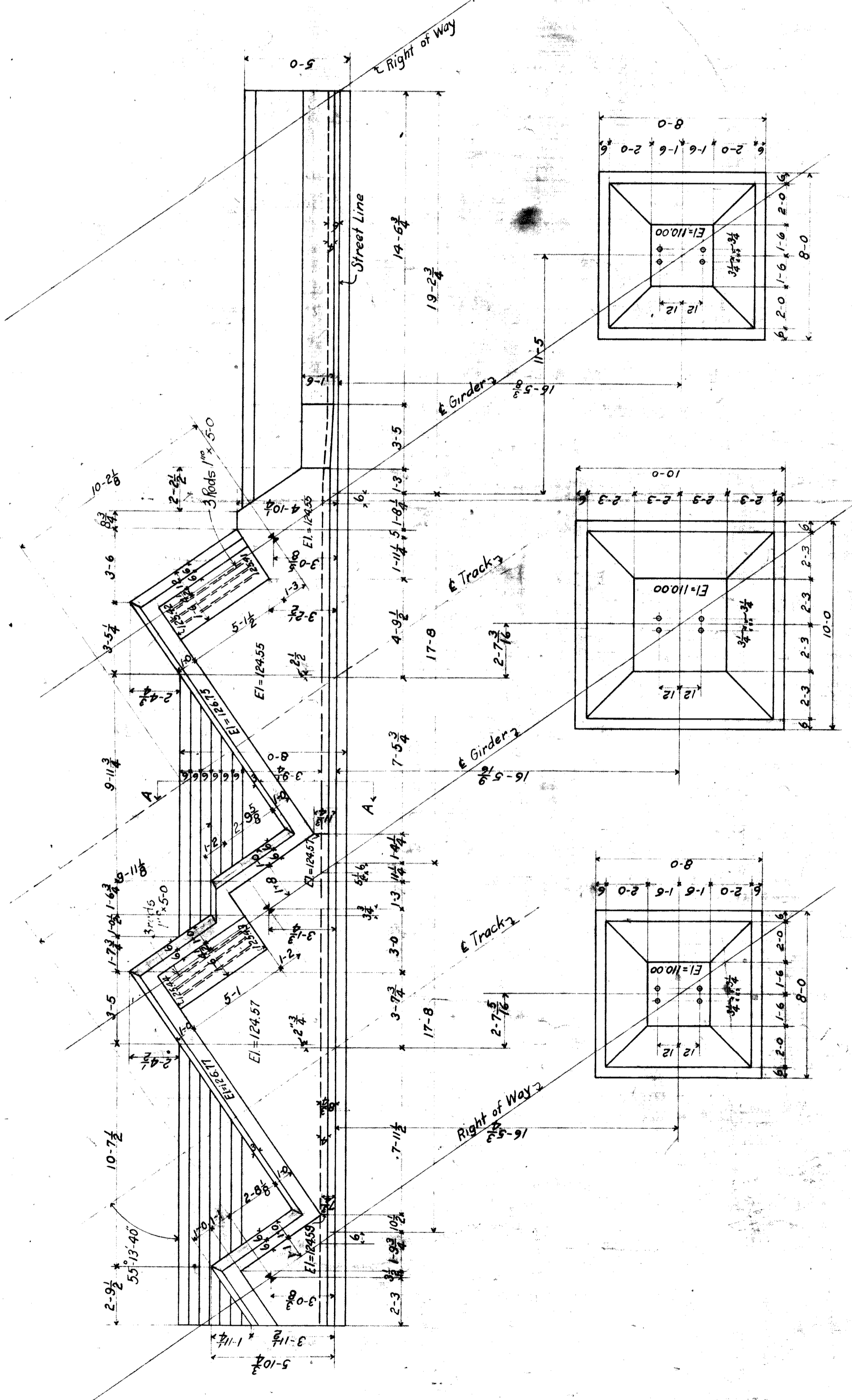
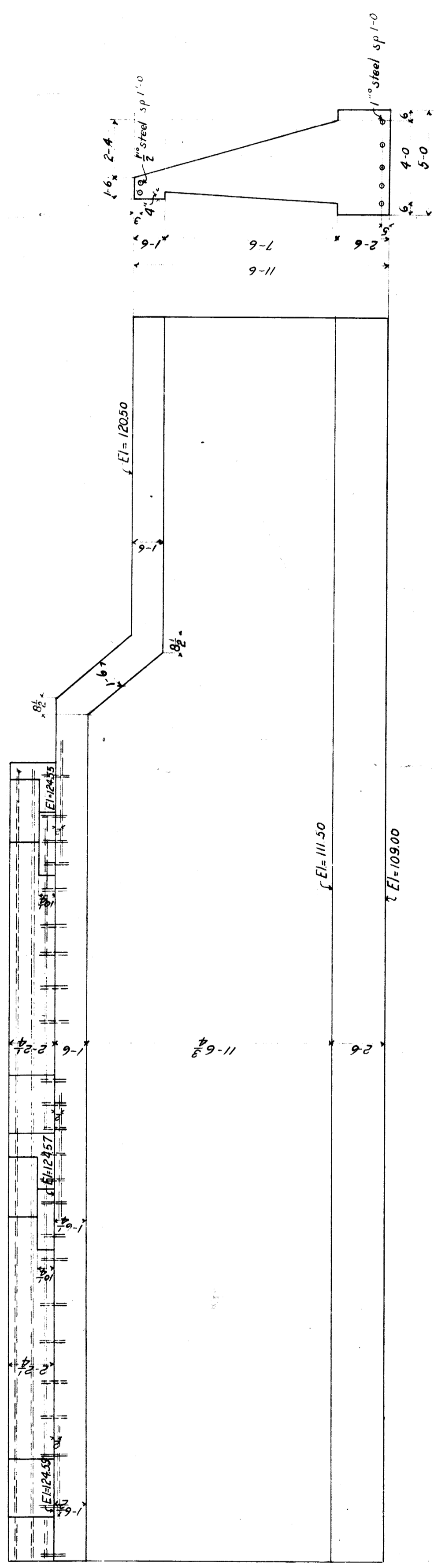
SPECIFICATIONS
 Make top 6" of bridge and beam seats and of piers 1 part Portland cement, 2 parts sand.
 Make next 1/4" of bridge and beam seats and of piers, 1 part Portland cement, 2 parts sand, 3 parts broken stone.
 Make rest of masonry 1 part Portland cement, 2 1/2 parts sand, 4 1/2 parts broken stone.
 Face all exposed surfaces with 1/2 mortar.

CONTENTS
 Abutment 188 cu.yds.
 Piers 79 cu.yds.

M.C.R.R. Bay City Div.
 Bridge 2nd Vinewood Ave.
 South Abutment and Piers
 Scale 1" = 10'-0"
 July 1903
 Approved
 N. C. Ryan
 Bridge Engineer



File XU26-10



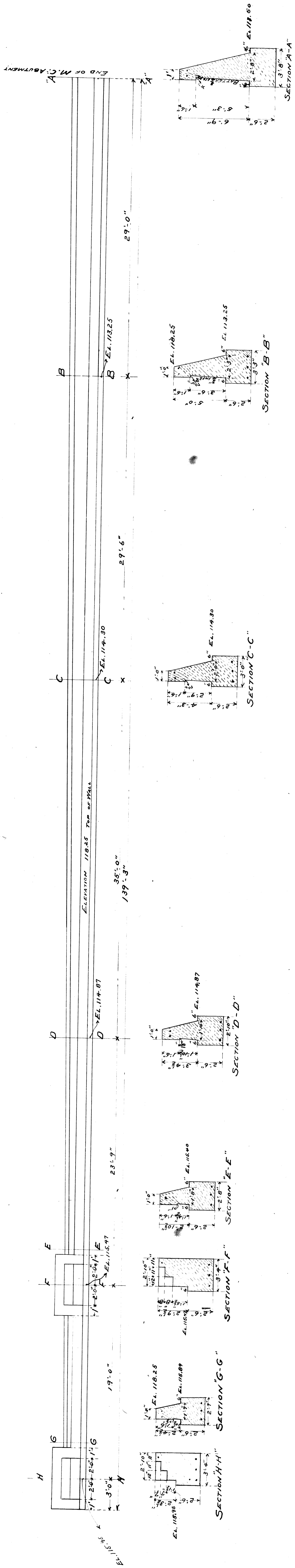
SPECIFICATIONS

Make top 6" of bridge and beam seats and of piers 1 part Portland Cement
2 parts sand.
Make next 1-6" of bridge and beam seats and of piers 1 part Portland Cement
2 parts sand, 3 parts broken stone.
Make rest of masonry 1 part Portland Cement, 2 1/2 parts sand, 4 1/2 parts
broken stone.
Face all exposed surfaces with 1/2 mortar.

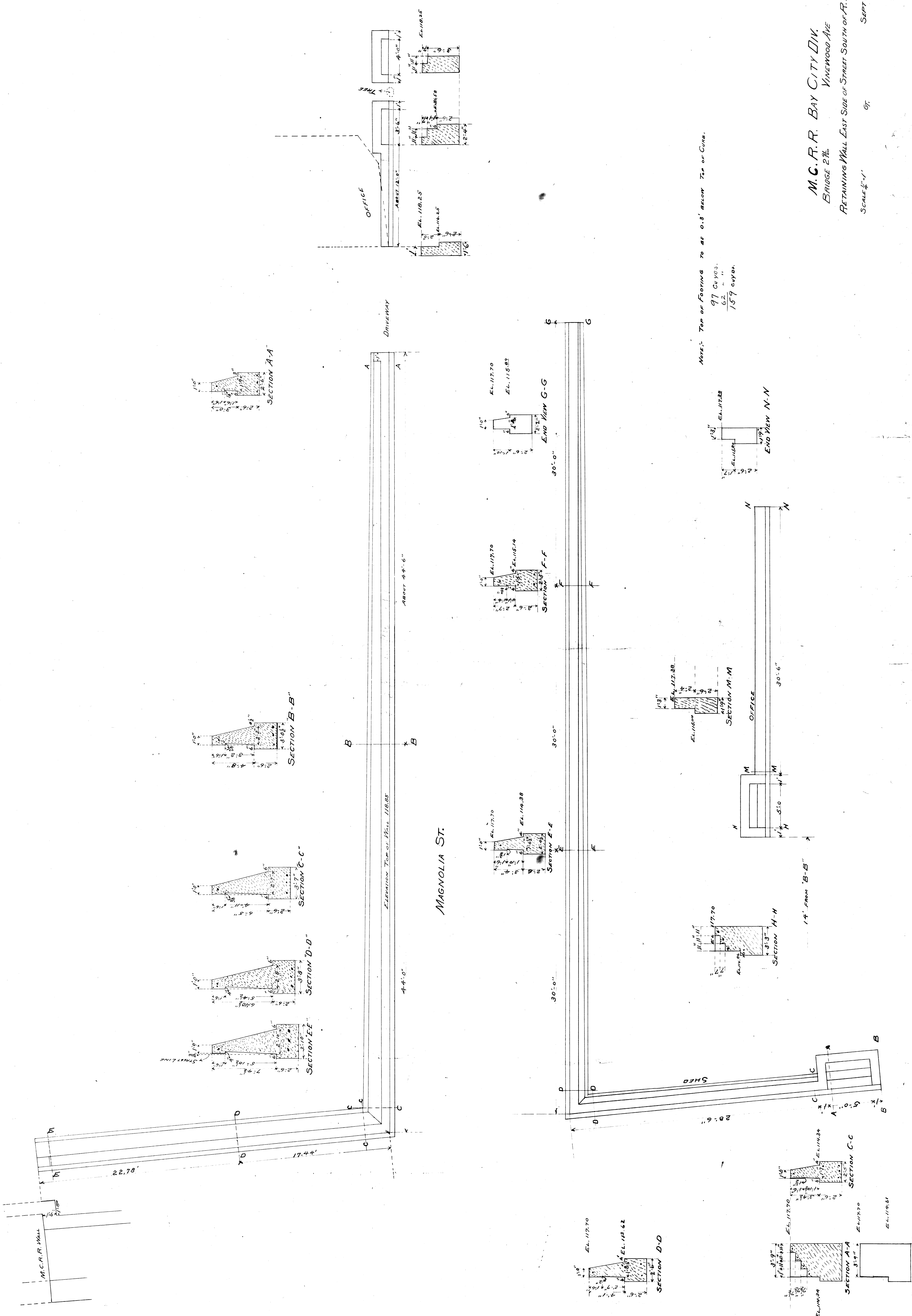
CONTENTS
Abutment 183 cu yds.
Piers 29 cu yds.

M.C.R.R. Bay City Div.
Bridge 291 Vinewood Ave.
North Abutment and Piers
Scale 1/4" = 1'
July 1908.

Approved
W. C. ...
Bridge Engineer



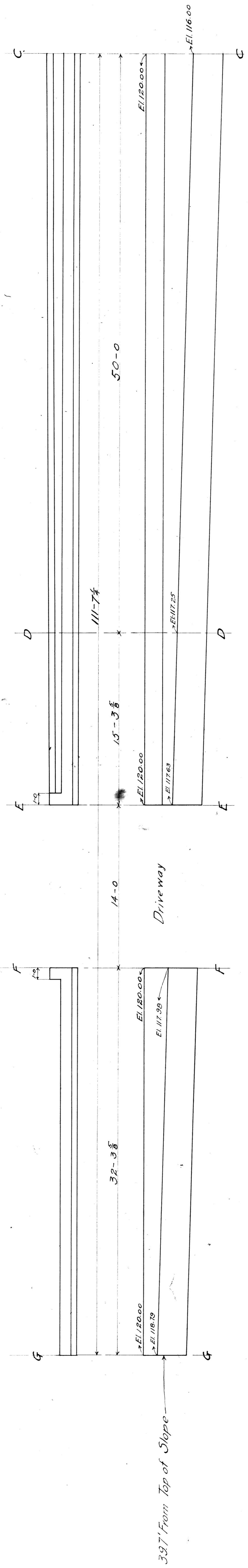
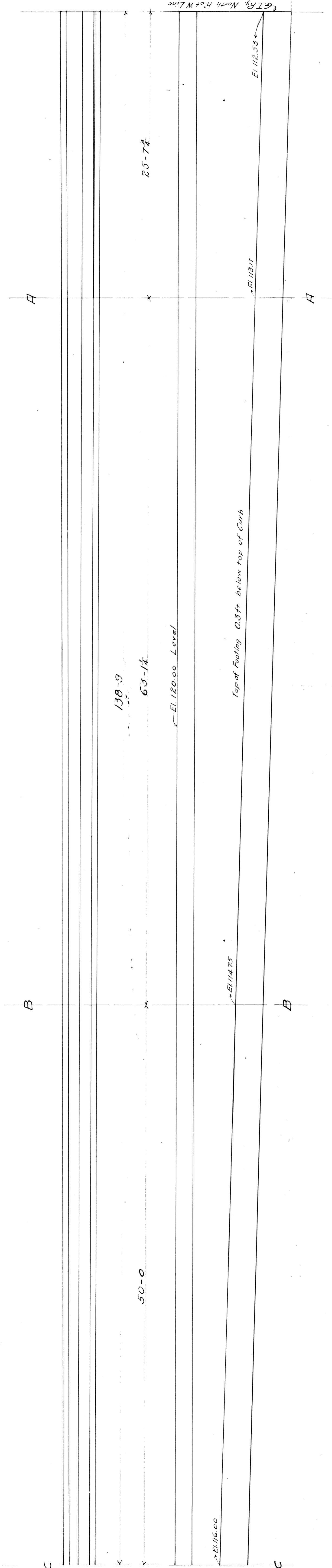
Uinewood Ave. South, off road
West side Street



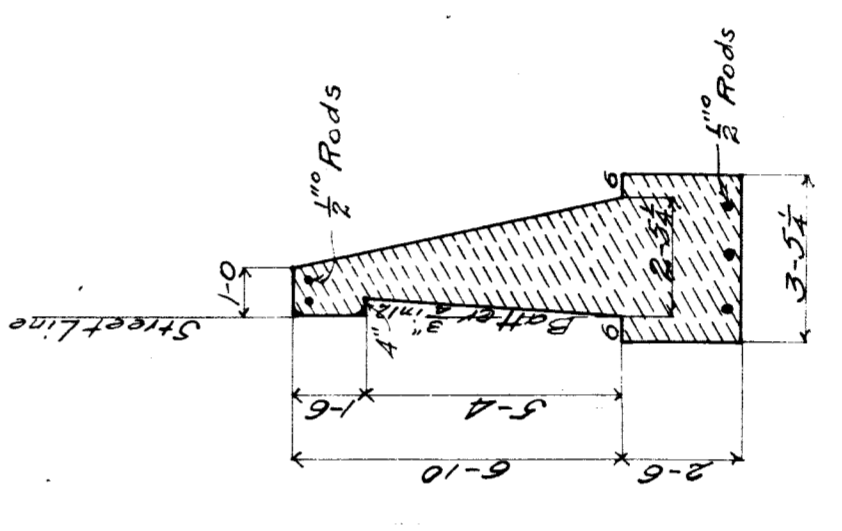
M.C.R.R. BAY CITY DIV.
 BRIDGE 2 1/2%
 RETAINING WALL EAST SIDE OF STREET SOUTH OF R.R.
 SCALE 1/4" = 1'
 SEPT 1908

CA

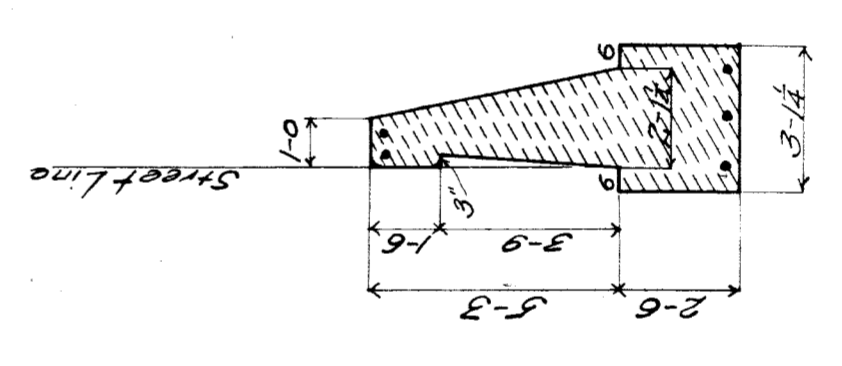
X117-13



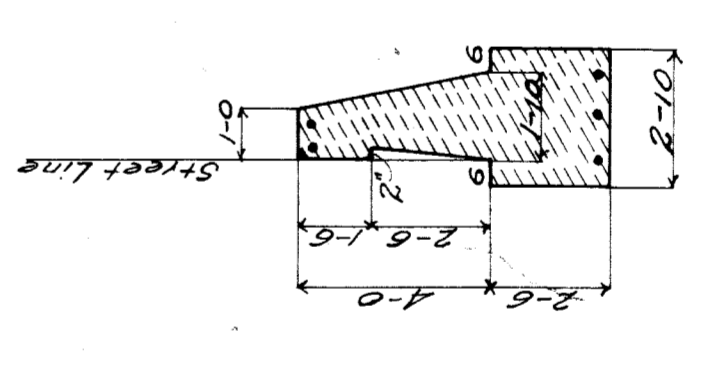
Make Concrete: 1 part of Portland Cement, 2 parts sand, and 3 parts of crushed stone.
 Contents = 120.3 cu. yds.



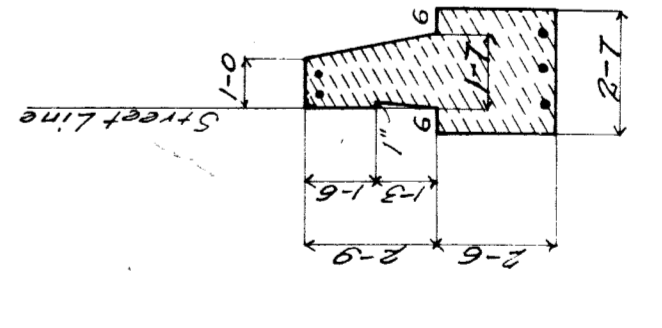
Section "A-A"



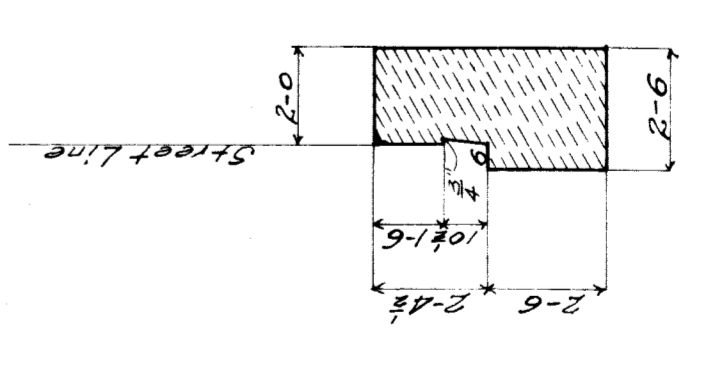
Section "B-B"



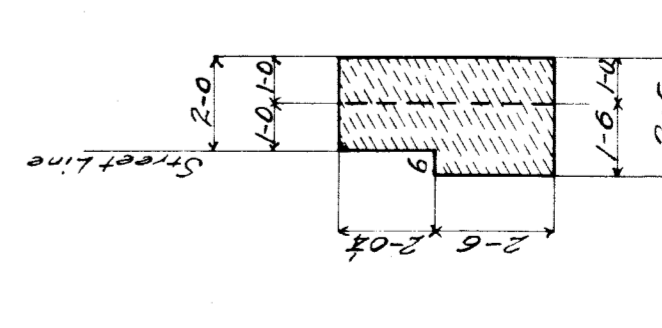
Section "C-C"



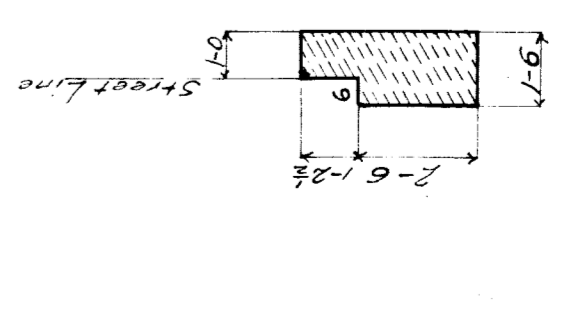
Section "D-D"



Section "E-E"



Section "F-F"

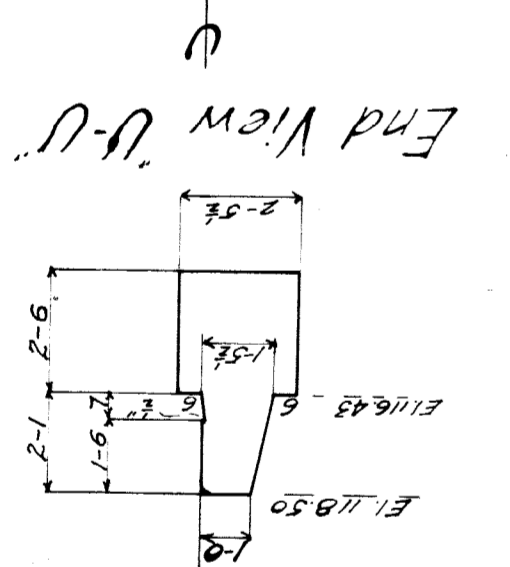
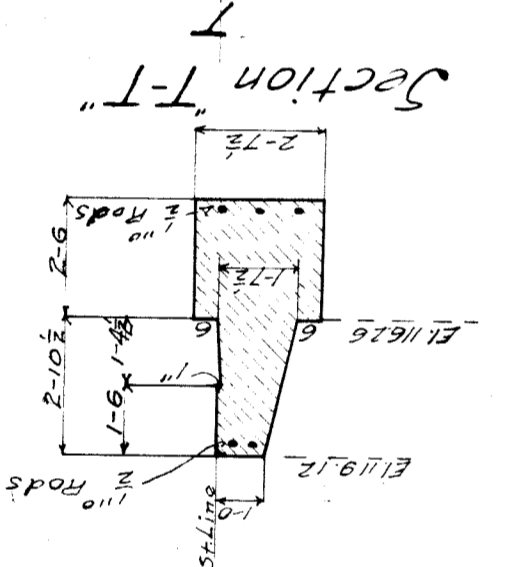
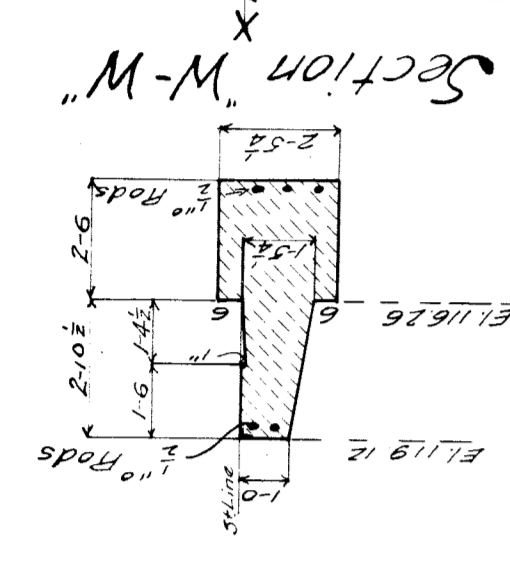
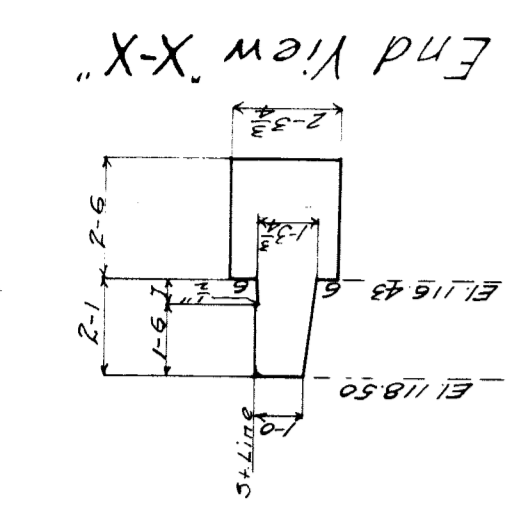


Section "G-G"

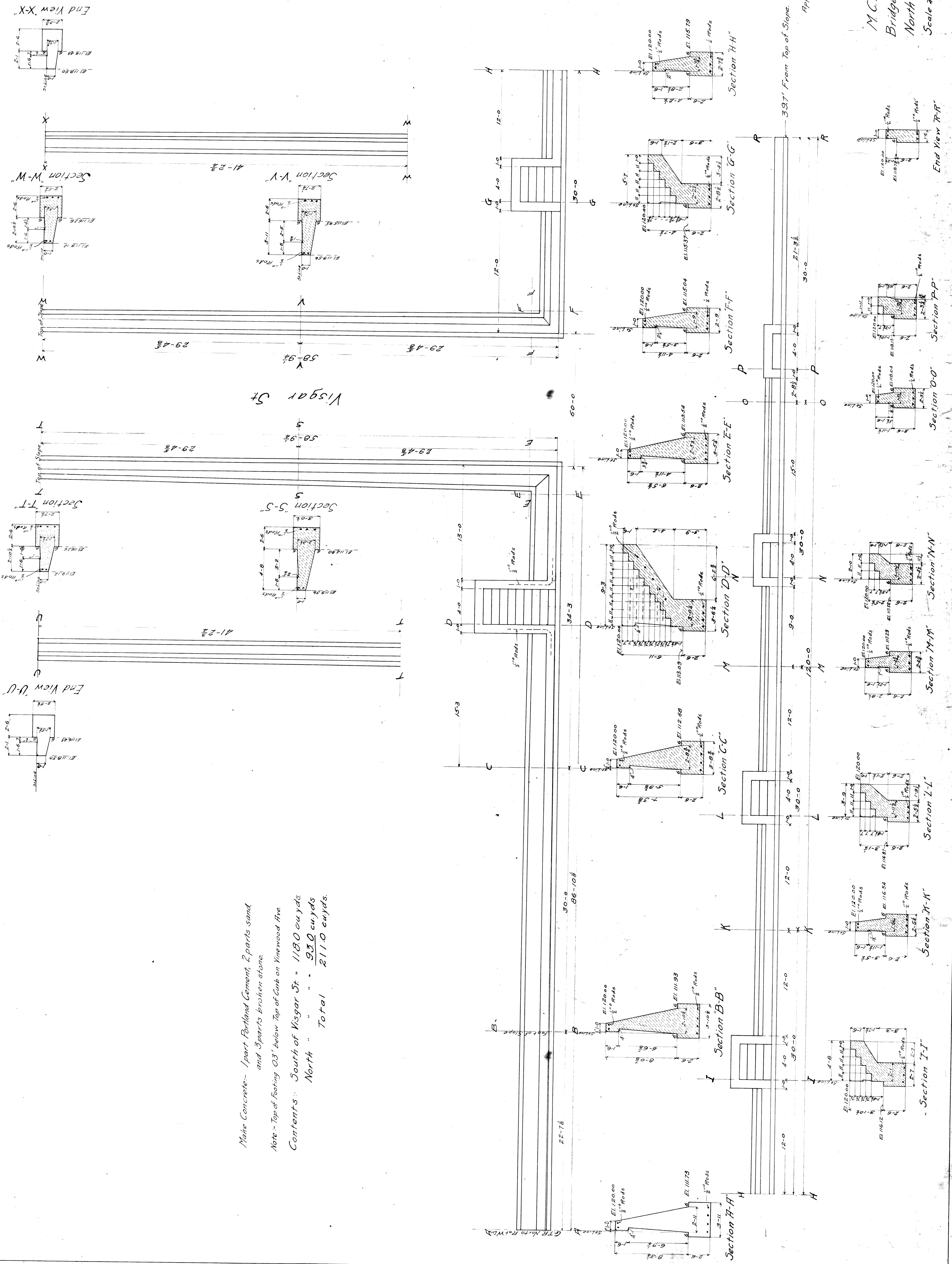
Approved: -

Bridge Engineer

M.C.R.R. Bay City Div
 Bridge No. 291 Vinewood Ave
 North East Retaining Wall.
 Scale 1/4" = 1'-0" 181 Oct 1908



Make Concrete - 1 part Portland Cement, 2 parts sand
 and 3 parts broken stone.
 Note - Top of Footing 03' below Top of Curb on Vinewood Ave.
 Contents: South of Visgar St. = 118.0 cu yds
 North " " = 93.0 cu yds
 Total = 211.0 cu yds.



Approved

Bridge Engineer

M.C.A.R. Bay City Div.
 Bridge No. 291 Vinewood Ave.
 North West Retaining Walls.
 Scale 1/4" = 1'-0" Oct 1908.