

Issue No A Oct. 11, 1926.
REVISIONS:

Issue No B Dec. 28, 1926.
 Moved Gas and Duct Lines
 Chambers one bay east.
 Added Framing Plan.

Issue No C Mar. 8, 1927.
 Revised Framing Plan and
 Section A-A. Added note on
 Water and Sewer Lines.

Issue No 1 Mar. 14, 1927.
 Revised Note.
 Approved by Chief Engineer.

Issue No 2 Mar. 16, 1927.
 Removed Street Lines for Atlas Pl.

Issue No 3 Apr. 14, 1927.
 Moved 6" Water Line to the
 Chamber covering 30" Water Line.

Issue No 4 May 19, 1927.
 Fixed location of St. Car Tracks.
 Revised Framing Plan and Section.

Issue No 5 June 8, 1927.
 Minor Revisions.

Issue No 6 July 1, 1927.
 Redesigned and Redrawn.

Issue No 7 Oct. 12, 1927.
 Revised for 2 Track Subway on
 West side of Bridge.

Issue No 8 Oct. 25, 1927.
 Added C.E.I. Co. Pole Socket.
 Drawing Traced Minor Revisions.

Issue No 9 Nov. 30, 1927.
 Signed By Chief Engineer.
 Minor Revisions.

Issue No 10 Jan. 24, 1928.
 Approved By Heads of Departments.

Issue No 11 Feb. 6, 1928.
 All Water Lines Moved to West
 Side of Bridge.

Issue No 12 April 24, 1928.
 Revised details of water lines.
 Approved by the City.

Issue No 13 Sept. 1, 1928.
 Plan Conforms to Structure as
 Built.

WE HEREBY CERTIFY THAT THIS PLAN
 SHOWS THE STRUCTURE AS BUILT.

E. P. Marsh
 ENGINEER OF STRUCTURES

H. P. Rogelers
 ASST. ENGINEER OF CONSTRUCTION

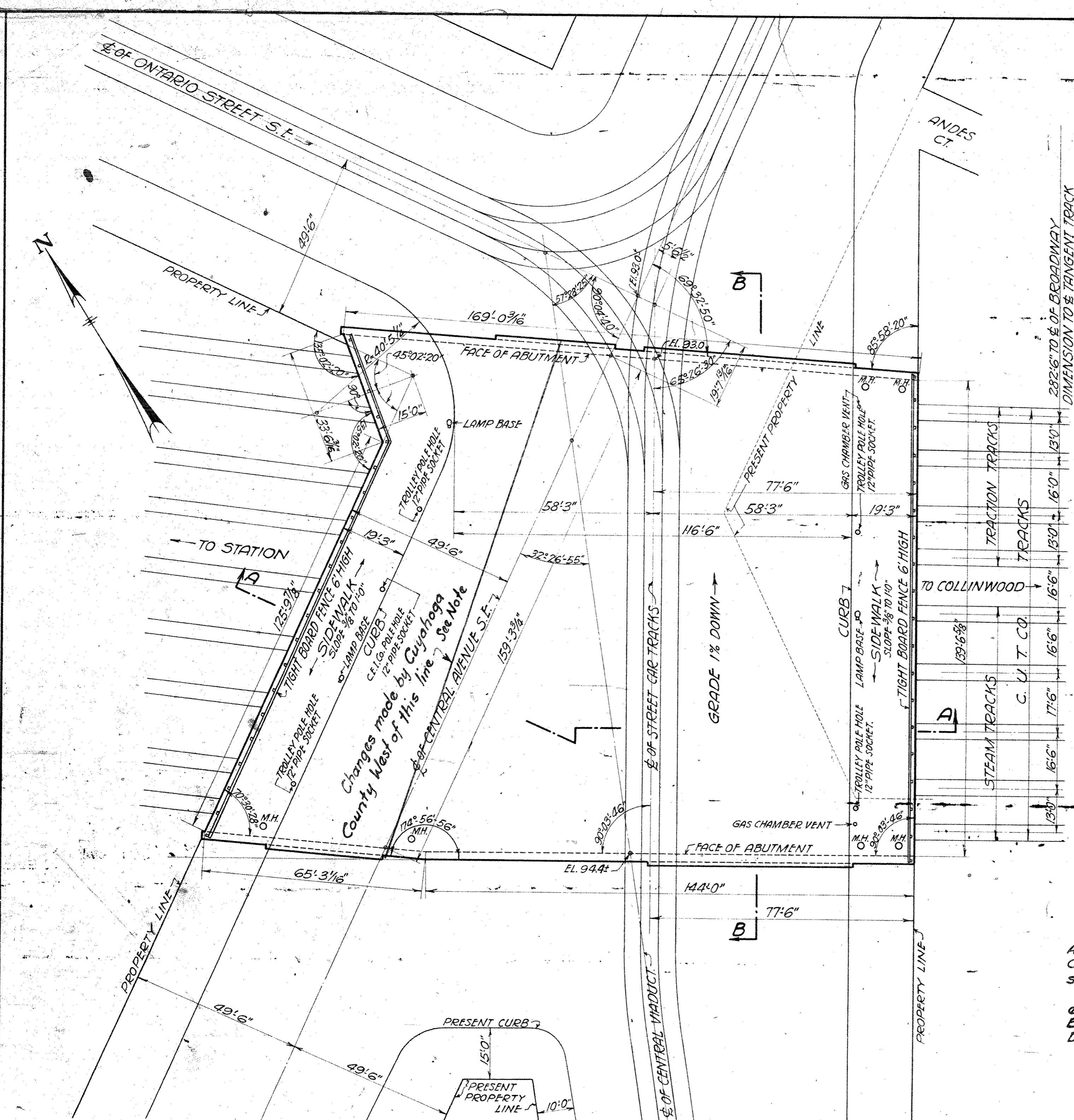
Designed By G.I.C. & J.H.C. 7-1-1927.

Detailed By S.H. Oct. 12, 1927.

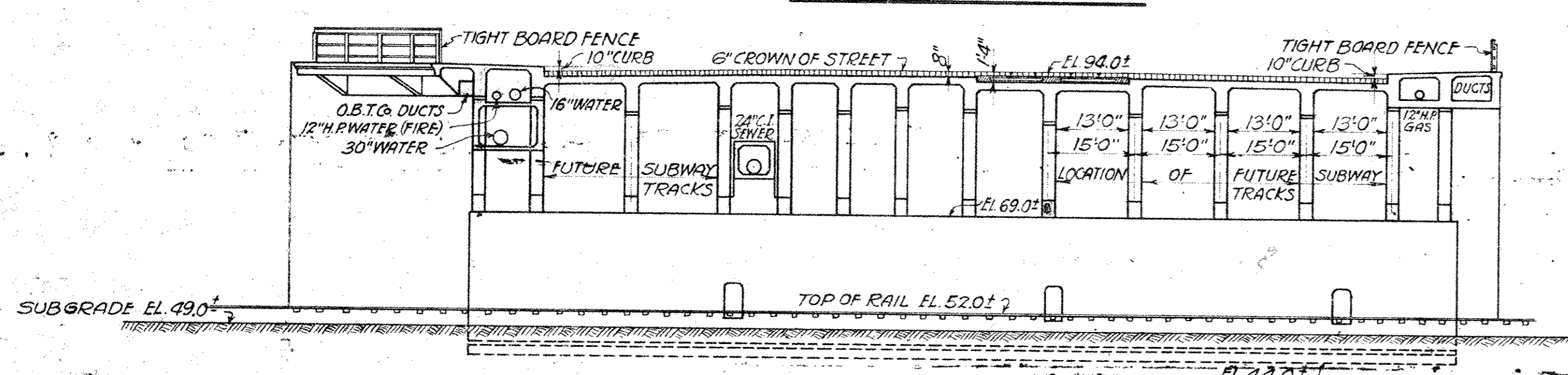
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Checked By G.I.C. Nov. 1, 1927.

Corrected Nov. 3, 1927.
L. S. Dorman
 Designing Engineer



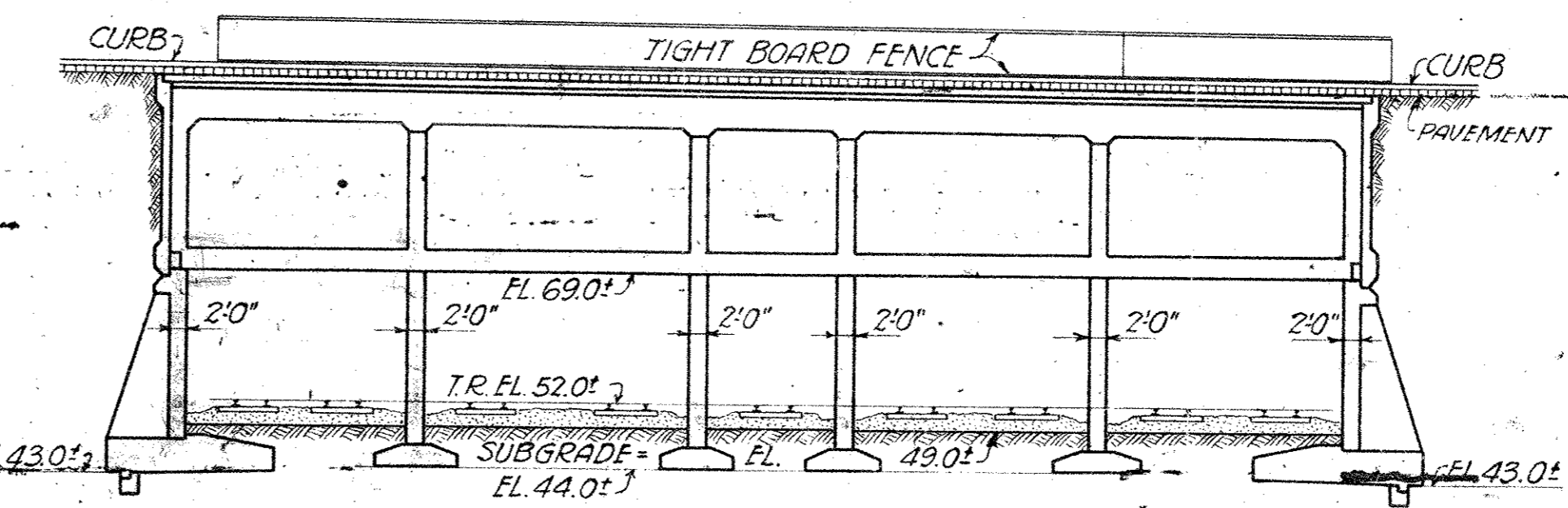
GENERAL PLAN



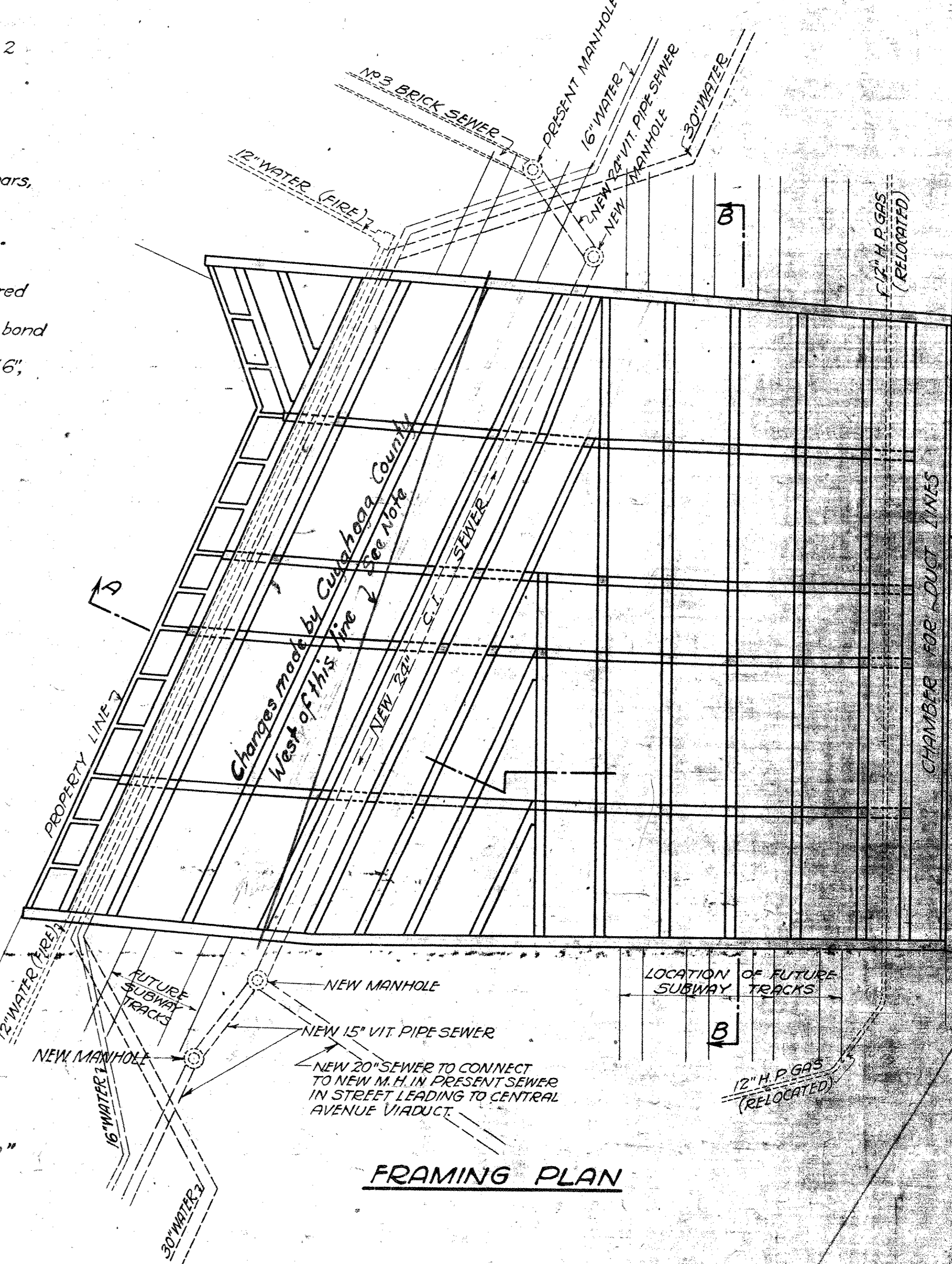
SECTION A-A

GENERAL NOTES:
 All Concrete except duct encasement to be Class 2
 (6 Bags of Cement per Cu. Yd.)
 Duct encasement concrete to be Class 3
 (4 1/3 Bags of Cement per Cu. Yd.)
 No Construction Joints to be made, except as
 shown, without specific authority from the
 Engineer of Structures, C.U.T. Co.
 For explanation of method of marking bent bars,
 see "Standard Bar Marks" Sheet No. 1 of 1,
 Issue No 2 dated June 20, 1927.
 Specifications used for design - C.U.T. Co's.
 "Specifications for Highway Bridges and
 Viaducts" Issue No 1 dated July 10, 1924.
 All exposed edges of Concrete to be chamfered
 1/4" unless otherwise noted.
 In making splices for reinforcement bars the bond
 distance shall be as follows:
 3/8" # 1-6", 1/2" # 2-4", 5/8" # 2-6", 3/4" # 3-10", 7/8" # 3-6",
 1" # 8-10", 4" # 4-0", 1 1/8" # 2-6" and 1 1/4" # 5-0."

Note: Subsequent to the completion of the Central
 Avenue Bridge in accordance with this Plan, the
 County of Cuyahoga made alterations in the westerly
 side of this Bridge and extended it to the west.
 For information concerning the alterations and
 extensions see the County's Plans for "Lorain-Central
 Bridge, Cleveland, Ohio; Central Ave. Bridge Extension"
 Drawings Nos. 18 to 22 inclusive.



SECTION B-B



FRAMING PLAN

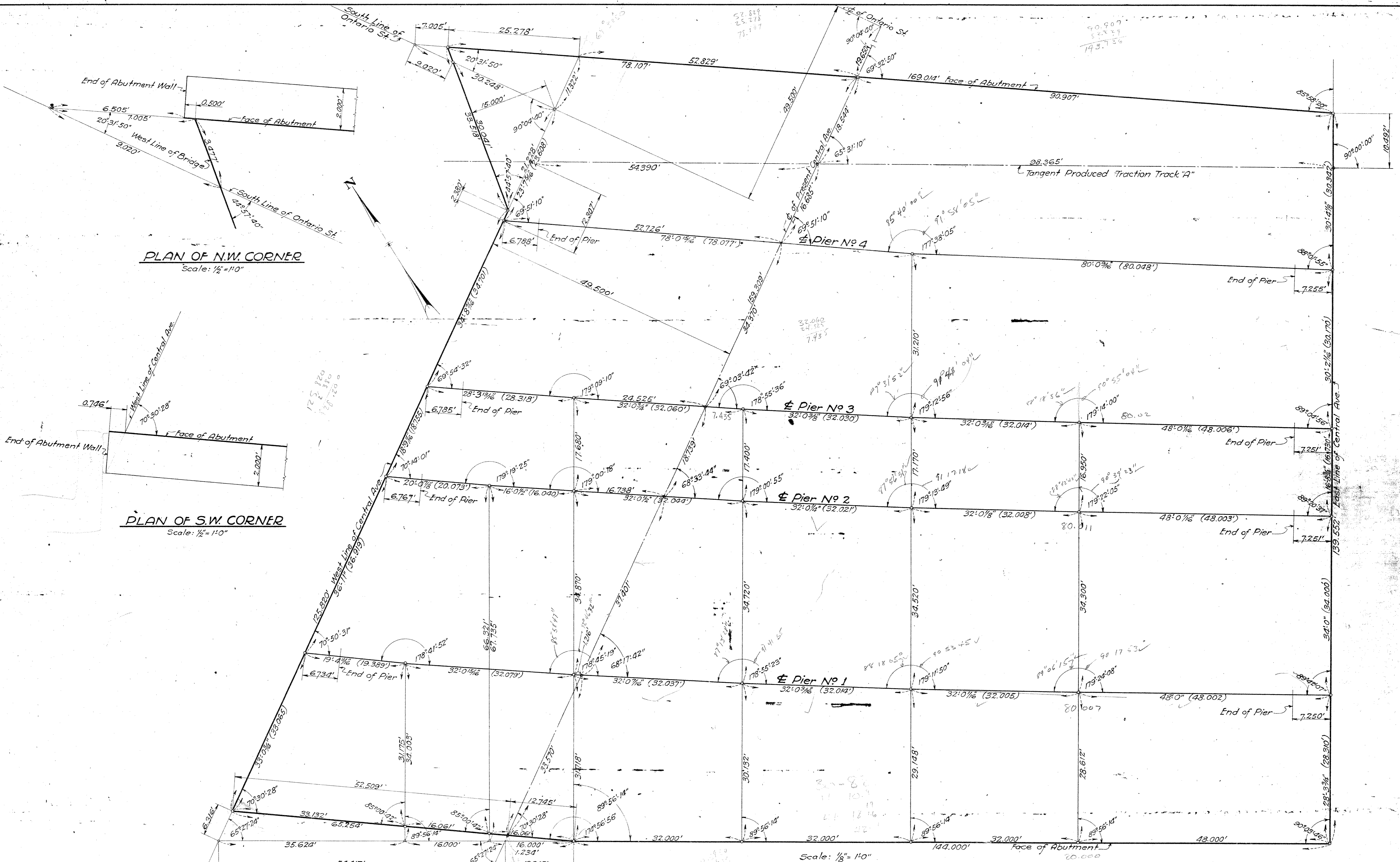
Plan Approved
CITY OF CLEVELAND
 By **ROBERT HOFFMANN**
 Commissioner of Engineering & Construction
 Date 4-19-28.

THE CLEVELAND UNION TERMINALS CO
CENTRAL AVE. BRIDGE
GENERAL PLAN
AND SECTIONS
 CLEVELAND, OHIO
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: 1" = 20'-0"
 ISSUE NO. 13
 DATE: 10-11-26
 REVISED 7-1-27

113-065-5

FILE NO. 113-265

Issue No A July 1, 1927.
 REVISIONS:
 Issue No B Oct. 26, 1927.
 Traced & Checked.
 Issue No 1 Nov. 30, 1927.
 Signed By Chief Engineer.
 Minor Revisions.
 Issue No 2 Jan. 24, 1928.
 Approved By Heads of Department.
 Issue No 3 April 24, 1928.
 Approved by the City.
 Issue No 4 Sept. 1, 1933.
 Plan Conforms to Structure as
 Built.



PLAN OF N.W. CORNER
 Scale: 1/2" = 1'-0"

PLAN OF S.W. CORNER
 Scale: 1/2" = 1'-0"

Scale: 1/8" = 1'-0"

WE HEREBY CERTIFY THAT THIS PLAN
 SHOWS THE STRUCTURE AS BUILT.

E. C. Marsh 7/1/27
 ENGINEER OF STRUCTURES
J. H. C. 7/1/27
 ASST. ENGINEER OF CONSTRUCTION

Designed By G.I.C. July 1, 1927.
 Detailed By J.H.C. July 1, 1927.
 Traced By S.H. Oct. 26, 1927.
 Checked By J.H.C. & T.W. 10-26-1927.
 Correct Nov 30, 1927.
A. L. Gorman
 Designing Engineer

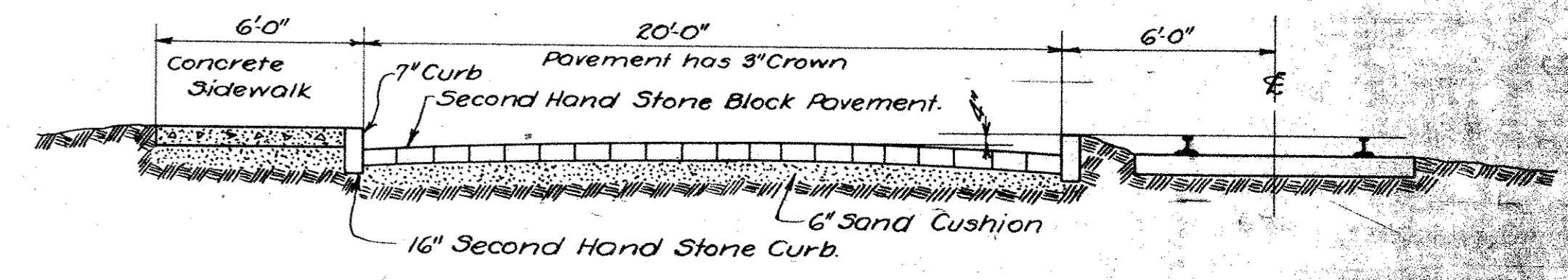
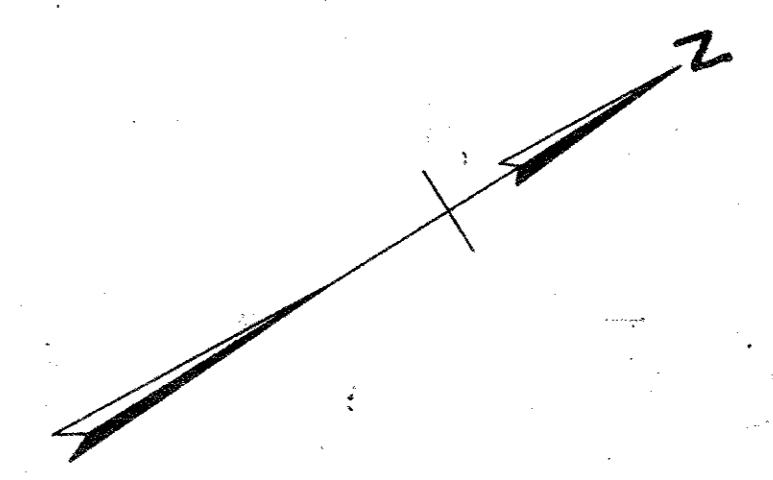
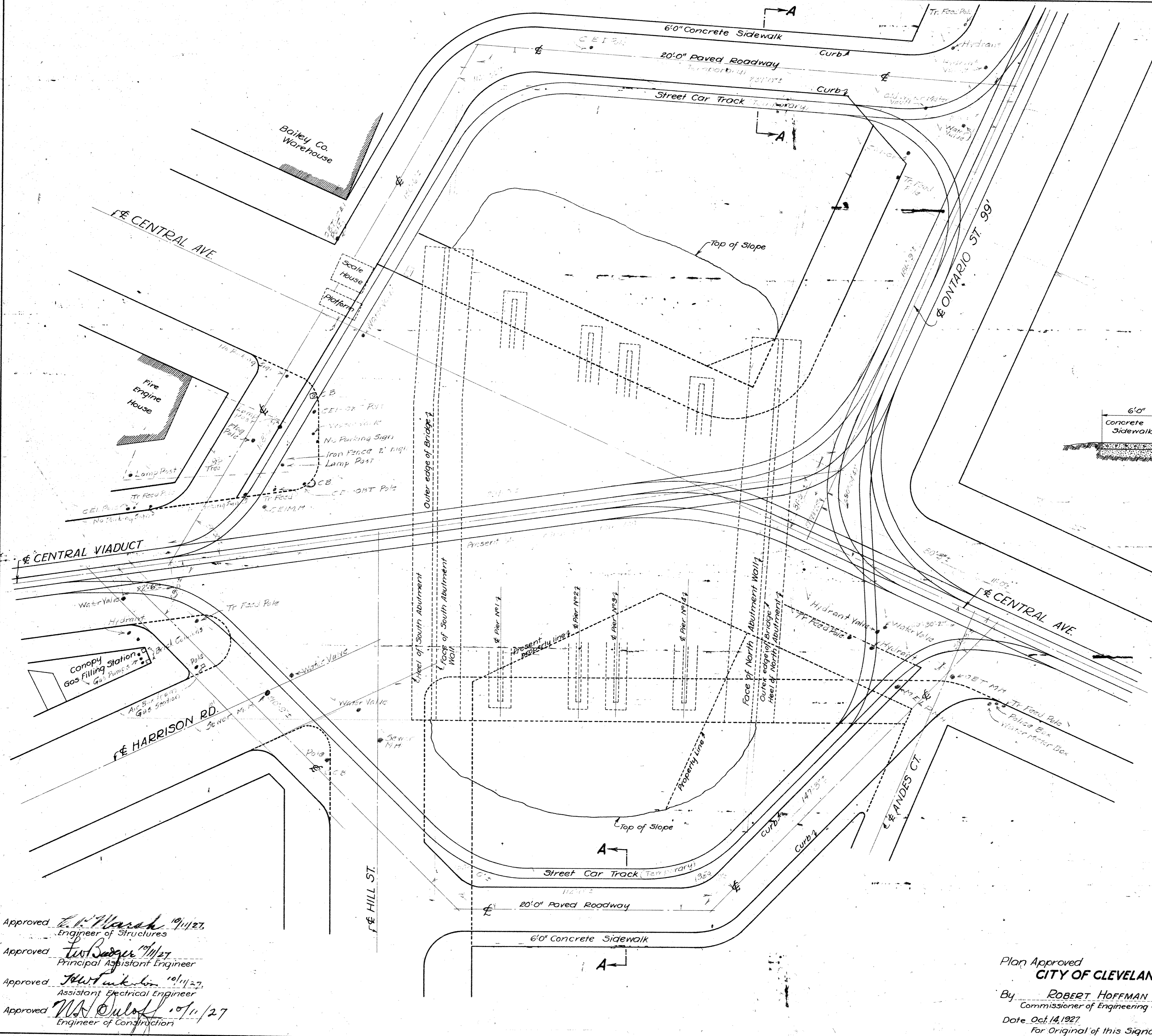
Approved *E. C. Marsh*
 Engineer of Structures
 Approved *J. H. C.*
 Principal Assistant Engineer
 Approved *H. W. ...*
 Assistant Electrical Engineer
 Approved *J. H. C.*
 Engineer of Construction

Plan Approved
CITY OF CLEVELAND
 By **ROBERT HOFFMANN**
 Commissioner of Engineering & Construction
 Date 4-13-28.

THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE. BRIDGE
LAYOUT PLAN
 CLEVELAND, OHIO.
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: AS SHOWN
 ISSUE NO. 4
 DATE JULY 1, 1927
 REVISED 9-1-33
E. C. Marsh
 CHIEF ENGINEER

Issue No. 1 Oct. 3, 1927.
 Revisions:-
 Issue No. 2 Oct. 10, 1927.
 Section 'A-A' added. Drawing traced.
 Issue No. 3 Oct. 11, 1927.
 Approved by Chief Engineer.
 Issue No. 4 Oct. 17, 1927.
 Approved by Commissioner of
 Engineering & Construction of the
 City of Cleveland.
 Issue No. 5 Oct. 19, 1927.
 Revised to conform with The
 Cleveland Railway Co.'s Drawing No. 3454.
 Issue No. 6 Jan. 23, 1928.
 Approved By Heads of Departments.

Issue No. 5 Sept. 1, 1933.
 Plan Conforms to Structure as
 Built.



SECTION A-A
 Scale: 1/2" = 1'-0"

WE HEREBY CERTIFY THAT THIS PLAN
 SHOWS THE STRUCTURE AS BUILT.

E. C. Marsh 9/11/24
 ENGINEER OF STRUCTURES
H. P. Beaman 8/29/24
 ASST. ENGINEER OF CONSTRUCTION

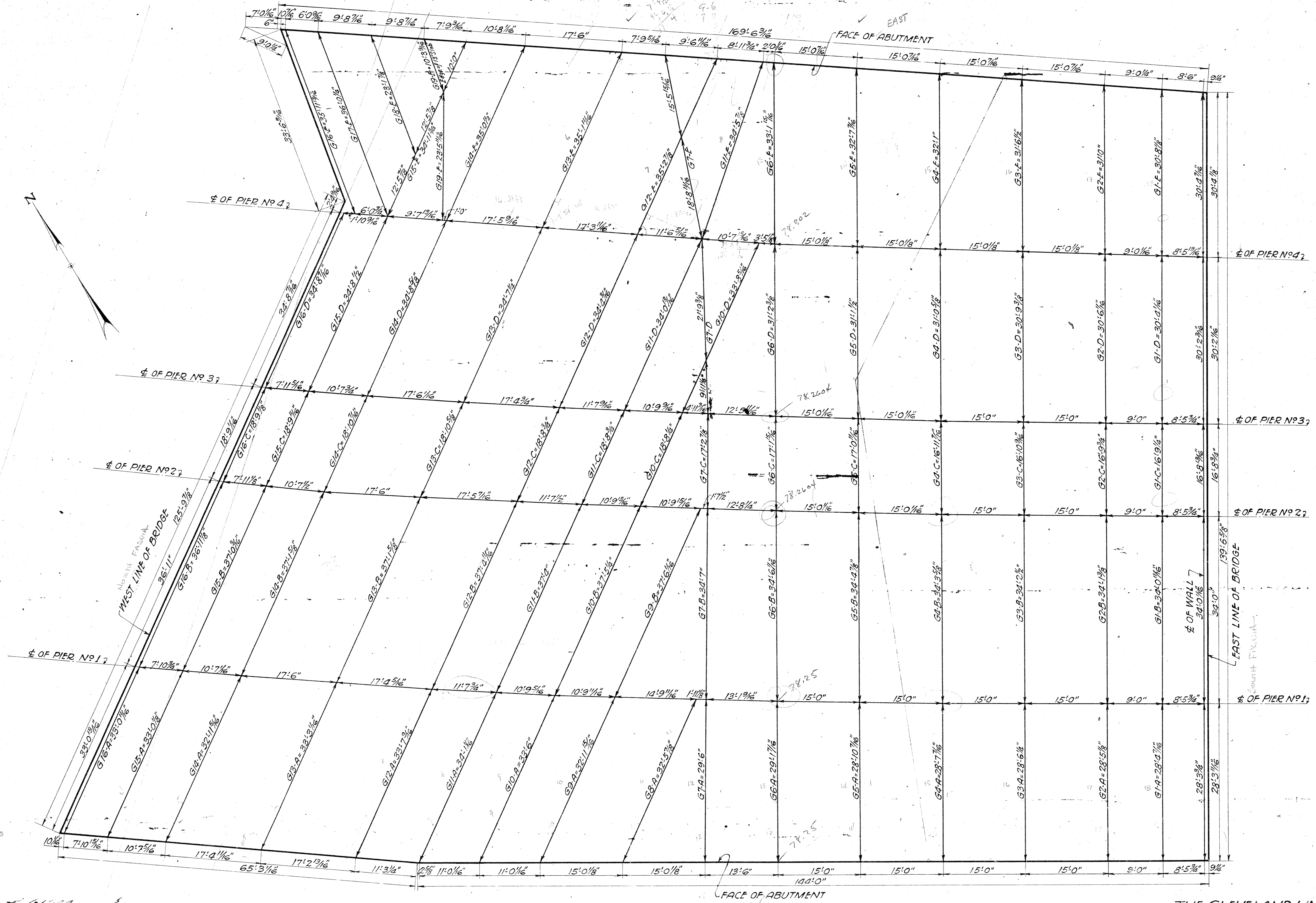
Designed By F.L.G. Oct. 3, 1927
 Detailed By G.T.C. Oct. 4, 1927
 Traced By H.B. Oct. 10, 1927
 Checked By G.T.C. Oct. 11, 1927
 Correct OCT. 11, 1927
H. L. Dorman
 Designing Engineer

Approved *E. C. Marsh* 10/11/27
 Engineer of Structures
 Approved *W. B. Rogers* 10/11/27
 Principal Assistant Engineer
 Approved *H. W. Tucker* 10/11/27
 Assistant Electrical Engineer
 Approved *W. A. Ouloff* 10/11/27
 Engineer of Construction

Plan Approved
CITY OF CLEVELAND,
 By **ROBERT HOFFMAN**
 Commissioner of Engineering & Construction
 Date Oct. 14, 1927
 For Original of this Signature
 See Blue-Print filed under No. 113-0655

THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE. BRIDGE
TRAFFIC DIVERSION PLAN
 CLEVELAND OHIO
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: 1" = 20' 0"
 ISSUE No. 5
 DATE: Oct. 3, 1927
 REVISED: 7-1-33
W. A. Ouloff
 CHIEF ENGINEER
 FILE No. 113-0655

Issue No A May 26, 1927.
 REVISIONS:
 Issue No B Oct. 27, 1927.
 Checked and Traced.
 Issue No 1 Nov 30, 1927.
 Signed By Chief Engineer
 Issue No 2 Jan. 24, 1928.
 Approved By Heads of Departments.
 Issue No 3 Feb. 6, 1928.
 Changed G10-F to G6-F.
 Issue No 4 April 24, 1928.
 Approved by the City.
 Issue No 5 Sept. 1, 1933.
 Plan Conforms to Structure as
 Built



WE HEREBY CERTIFY THAT THIS PLAN
 SHOWS THE STRUCTURE AS BUILT.

E. C. M...
 ENGINEER OF STRUCTURES
H. P. ...
 ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. & J.H.C. 5-26-1927.
 Detailed By H.B. May 26, 1927.
 Traced By S.H. Oct. 27, 1927.
 Checked By T.W. Nov. 10, 1927.
 Correct Nov. 30, 1927.
H. L. ...
 Designing Engineer

Approved *E. C. M...*
 Engineer of Structures
 Approved *J. ...*
 Principal Assistant Engineer
 Approved *S. ...*
 Assistant Electrical Engineer
 Approved *J. ...*
 Engineer of Construction

Note: Lengths as given for
 Girders are along the \pm .

Plan Approved
 CITY OF CLEVELAND
 By *ROBERT HOFFMANN*
 Commissioner of Engineering & Construction
 Date 4-13-28.

THE CLEVELAND UNION TERMINALS CO.
 CENTRAL AVE. BRIDGE
 FRAMING PLAN
 FOR DECK
 CLEVELAND, OHIO.
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: 1/8" = 1'-0"
 ISSUE NO. 5
 DATE: MAY 26, 1927
 REVISED 7-1-33
J. ...
 CHIEF ENGINEER
 FILE NO 113-065

Issue B Oct. 24, 1930
 Added note No. 6 and
 revised title.

Issue No. 1 Oct. 27, 1930.
 Signed by the chief engineer.



Designed by E.E.H. LOS
 Detailed by L.O.S.
 Checked by E.E.H.
 Correct [Signature]
 Assistant Engineer

Approved [Signature] 10/24/30
 Engineer of Structures
 Approved [Signature] 10/25/30
 Principal Assistant Engineer
 Approved [Signature] 10/27/30
 Engineer of Construction
 Approved [Signature] 10/27/30
 Assistant Electrical Engineer

CENTRAL

- Note:
 Location of piers and abutments is based upon following assumptions:
1. Net clearance equals 7 feet.
 2. Maximum width of piers 24' except as noted.
 3. Maximum superelevation on circular curves of
 (a) 5 inches for traction tracks and
 (b) 4 inches for steam tracks with a run-off in the length of spiral.
 4. Length of car for all tracks equals 86'; Truck centers equal 60'.
 5. Top of low rail elevation for all tracks within limits of bridge equals 52.0'
 6. The under clearance line for that portion of the bridge extension structure over the C.U.T. Co. tracks is at elevation 64.50.

THE CLEVELAND UNION TERMINALS COMPANY
 LOCATION OF PIERS FOR CENTRAL AVE. BR. EXTENSION
 CLEVELAND, OHIO.
 Office of Engineer of Structures

Scale 1"=10ft.
 Issue No. 1

Oct. 13, 1930
 Revised [Signature] 10/27/30
 Chief Engineer

Issue No A Oct. 18, 1927.

REVISIONS:

Issue No B Nov. 3, 1927.
Revised for C.F.I. Co. Insert.
Drawing Checked and Traced.

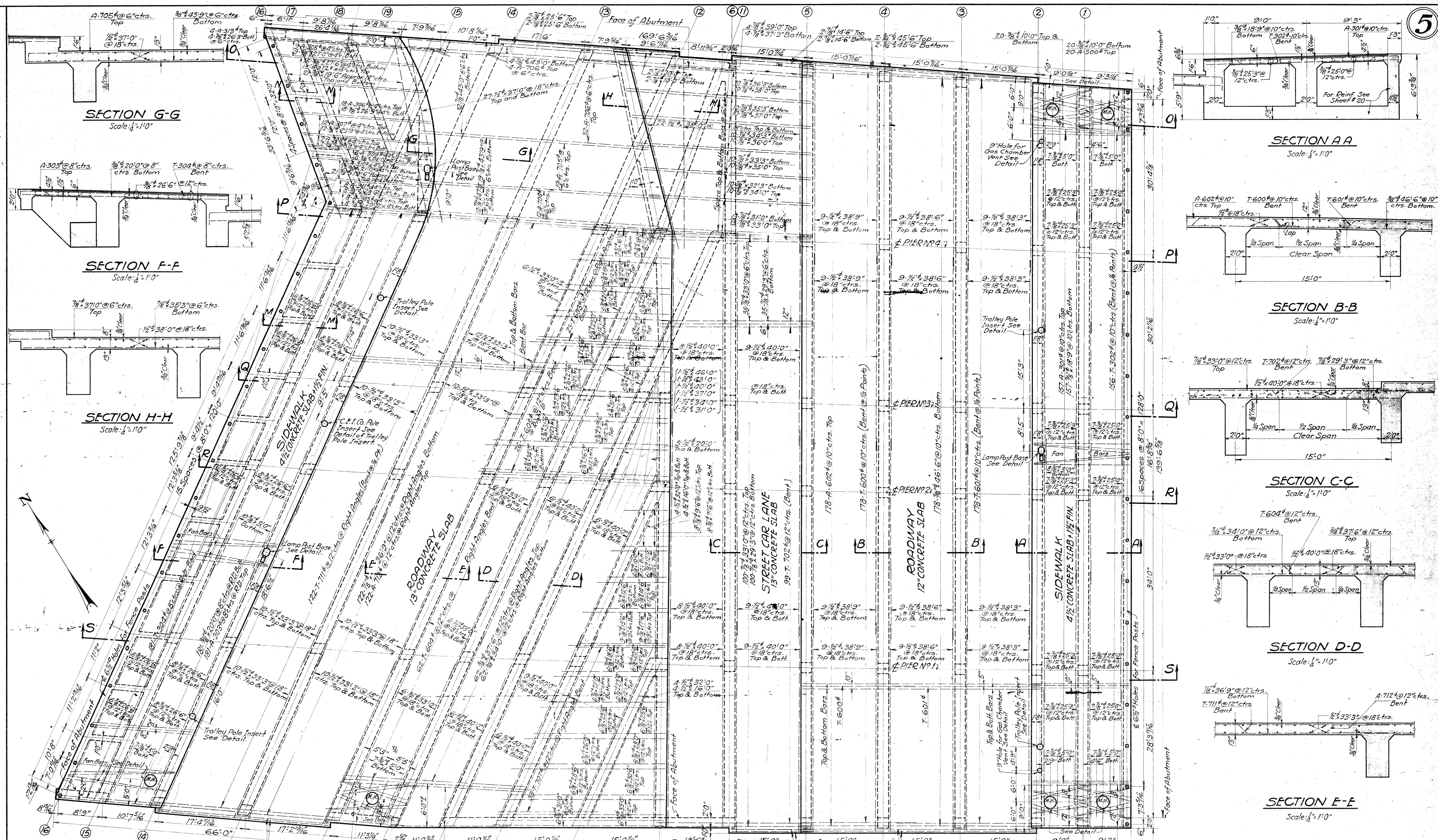
Issue No 1 Nov. 30, 1927.
Signed By Chief Engineer.

Issue No 2 Jan. 24, 1928.
Approved By Heads of Departments.

Issue No 3 Feb. 7, 1928.
Removed Water Chambers.

Issue No 4 Apr. 24, 1928.
Approved by the City.

Issue No 5 Sept. 1, 1933.
Plan Conforms to Structure as Built.



PLAN OF ROADWAY & SIDEWALK SLABS
Scale: 1/8" = 1'-0"

THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE. BRIDGE
ROADWAY AND SIDEWALK SLABS
CLEVELAND, OHIO.
OFFICE OF ENGINEER OF STRUCTURES
SCALE: AS NOTED. DATE: 10-18-1927.
ISSUE NO. 5. REVISED 9-1-33

Plan Approved
CITY OF CLEVELAND
By **ROBERT HOFFMANN**
Commissioner of Engineering & Construction
Date 4-13-28.

Designed By **G.T.C.** May 27, 1927.
Detailed By **S.H.** Oct. 18, 1927.
Traced By **S.H.** Nov. 3, 1927.
Checked By **L.C.B.** Nov. 5, 1927.
Correct **Nov. 30, 1927**
J.L. Gorman
Designing Engineer

Approved **E.V. Marsh**
Engineer of Structures
Approved **J. W. ...**
Principal Assistant Engineer
Approved **...**
Assistant Electrical Engineer
Approved **...**
Engineer of Construction

NOTE: For Sections M-M and N-N See Sheet No 19
For Sections O-O, P-P, Q-Q, R-R & S-S See Sh. No 11
All Manholes are City of Cleveland Standard 2'-4" Manholes.
For Details of Manholes, Lamp Post Base, 9" Hole for Gas Chamber Vent, Trolley Pole & C.F.I. Co. Pole Anchorage See Sheet No 19.
See Sheets #18 & 18A for Details at Curtain Walls.

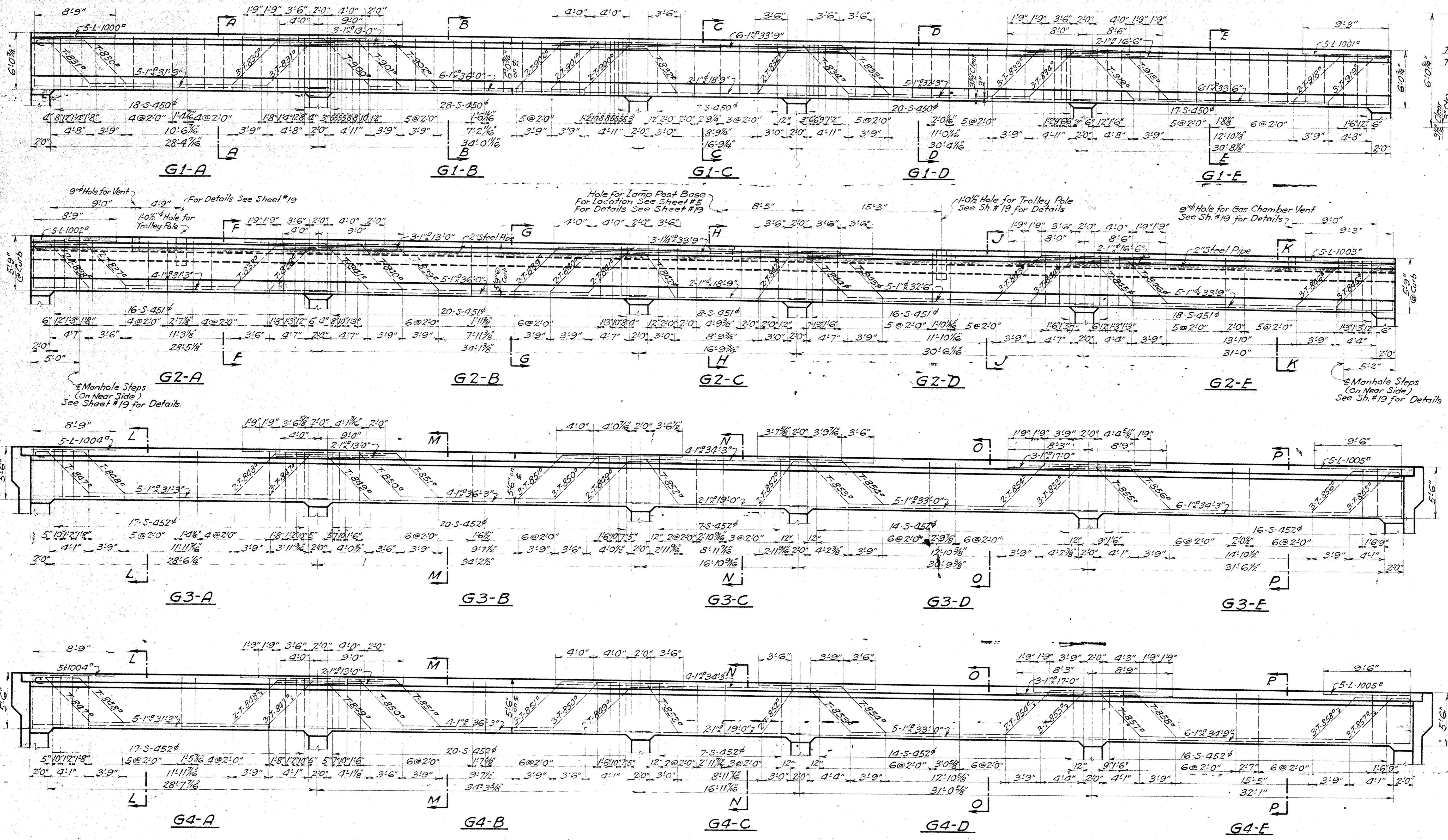
For Original of this Signature
See Blue Print Filed under No. 113-065-S

We Hereby Certify That This Plan Shows the Structure as Built.

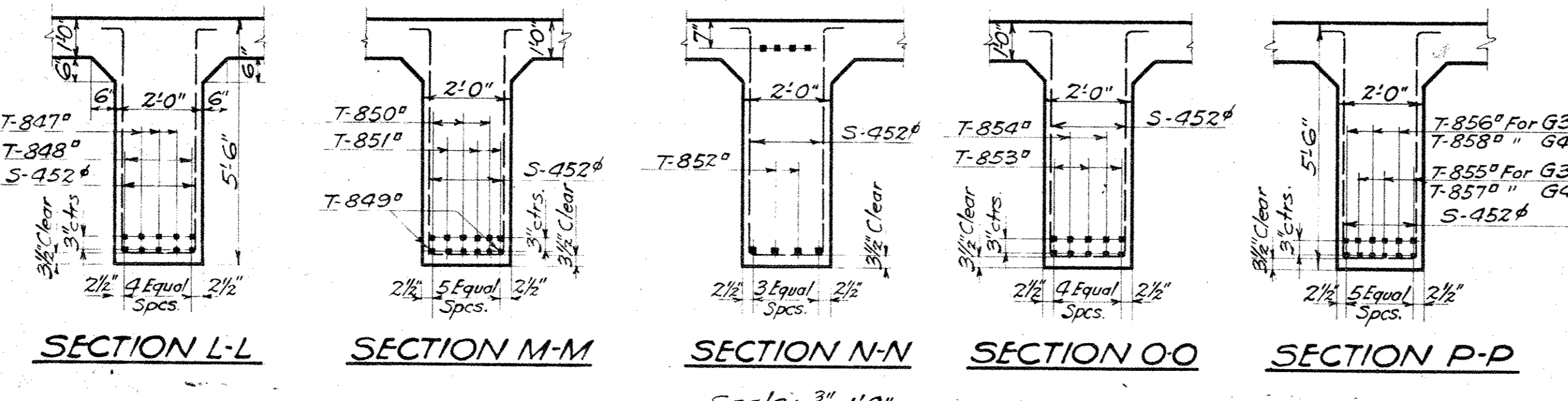
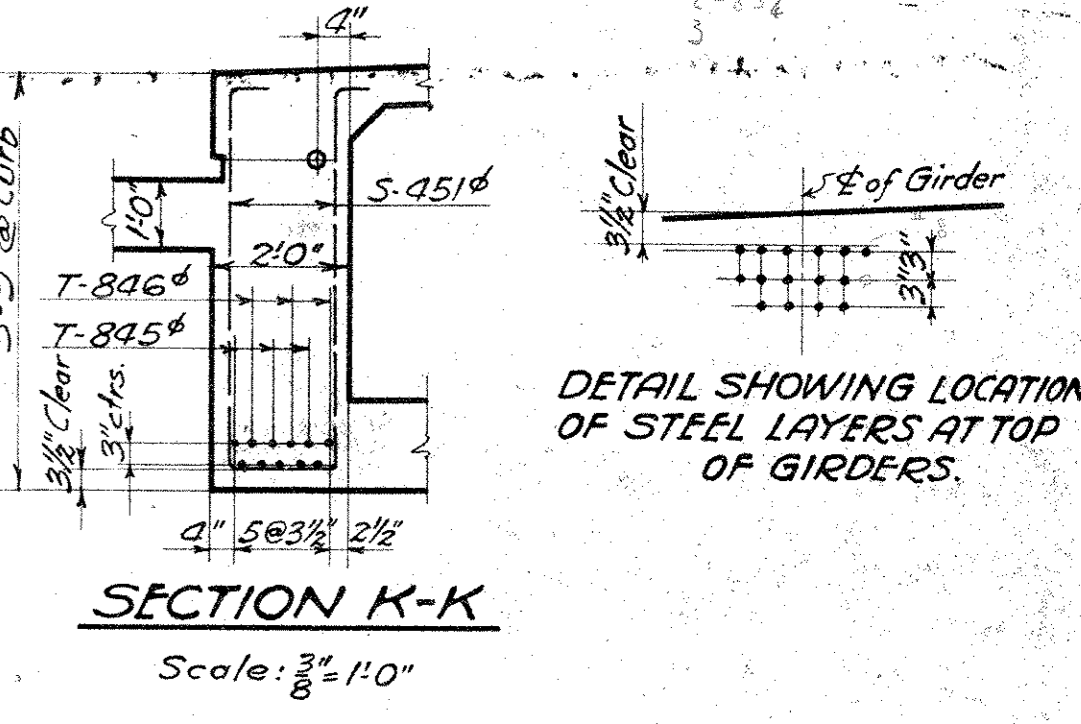
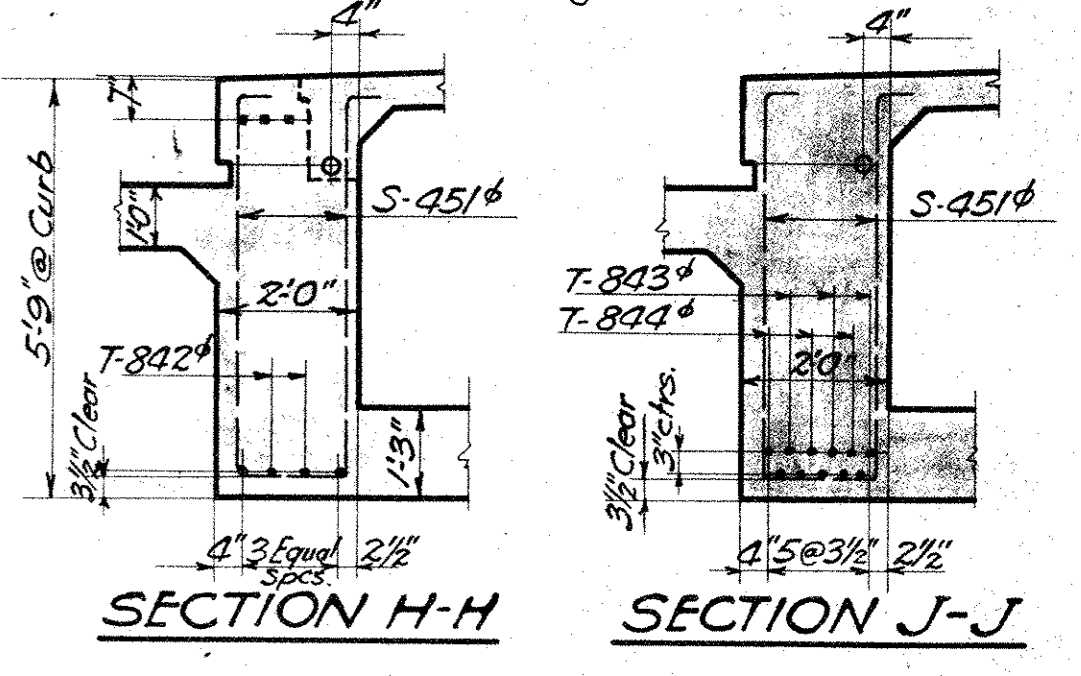
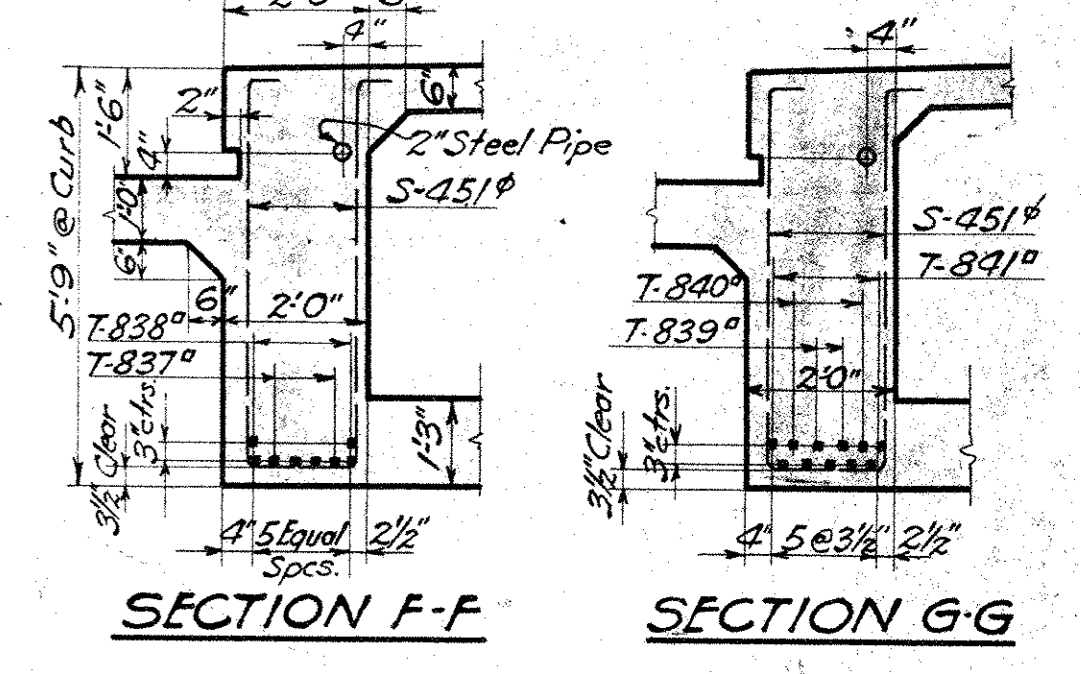
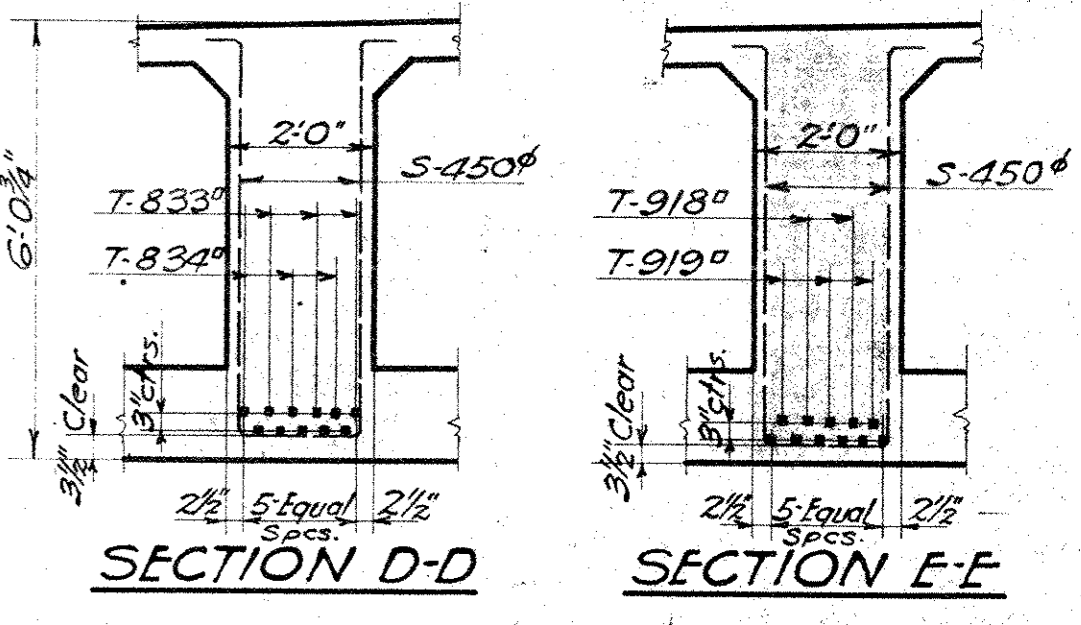
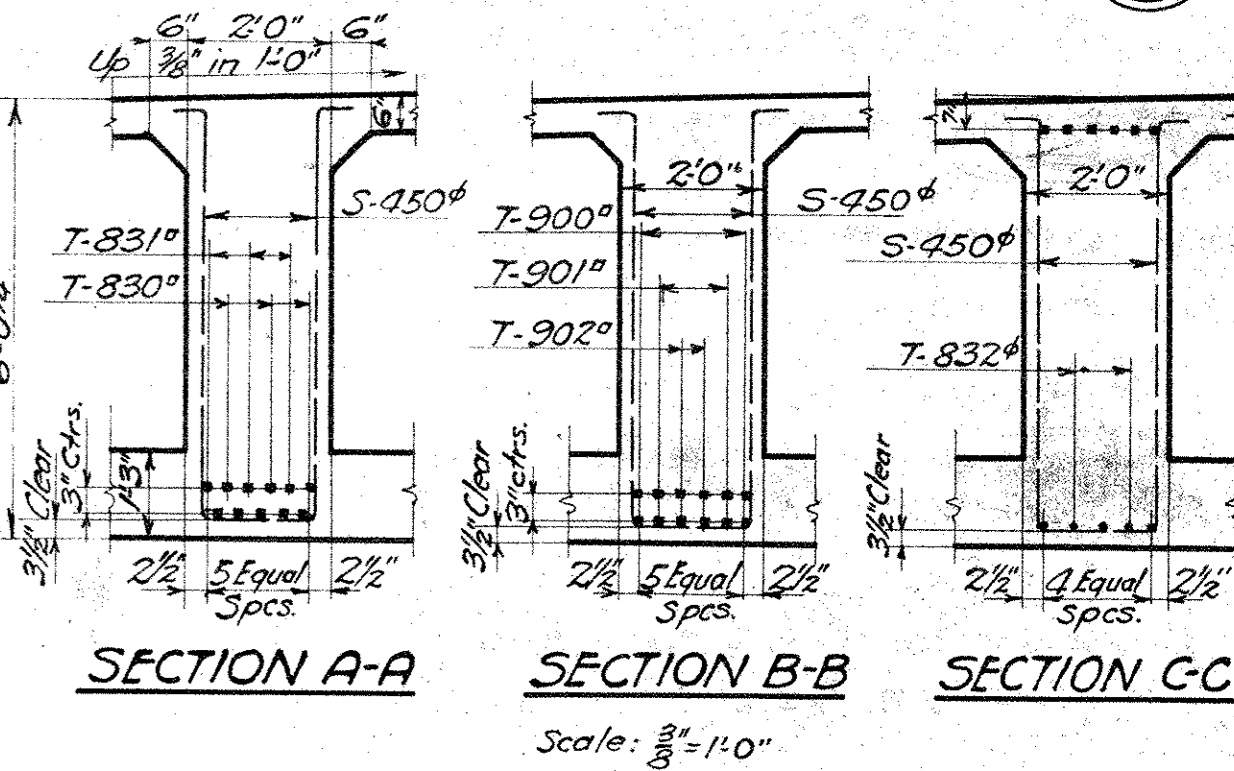
E.V. Marsh
ENGINEER OF STRUCTURES

J.L. Gorman
ASST. ENGINEER OF CONSTRUCTION

Issue No A Aug. 5, 1927.
 REVISIONS:
 Issue No B Nov. 16, 1927.
 Drawing Checked.
 Issue No C Dec. 5, 1927.
 Drawing Traced.
 Issue No 1 Dec. 16, 1927.
 Signed By Chief Engineer.
 Issue No 2 Jan. 24, 1928.
 Approved By Heads of Departments.
 Issue No 3 April 20, 1928.
 Approved by the City.
 Issue No 4 Sept. 1, 1933.
 Plan Conforms to Structure as Built.



GIRDER ELEVATIONS
 Scale: 3/8" = 1'-0"



Note: All Dimensions on Elevations are measured on 1/2" of Girder

We HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT

G. V. Muesch 7/1/34
 ENGINEER OF STRUCTURES

W. J. ...
 ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. July 5, 1927.
 Detailed By L.C.B. Aug. 5, 1927.
 Traced By S.H. Dec. 5, 1927.
 Checked By T.W. Dec. 16, 1927.
 Corrected Dec. 16, 1927.
F. L. ...
 Designing Engineer

Approved *G. V. Muesch*
 Engineer of Structures

Approved *W. J. ...*
 Principal/Assistant Engineer

Approved *W. J. ...*
 Assistant Electrical Engineer

Approved *T. H. ...*
 Engineer of Construction

Plan Approved
 CITY OF CLEVELAND

By **ROBERT HOFFMANN**
 Commissioner of Engineering & Construction

Date: 4-13-28

THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE. BRIDGE
 DETAILS OF GIRDERS
 NO. 1, 2, 3 AND 4
 CLEVELAND, OHIO.

OFFICE OF ENGINEER OF STRUCTURES
 SCALE: AS SHOWN
 ISSUE NO. 4

DATE AUG. 5, 1927.
 REVISED 7-1-33

F. L. ...
 CHIEF ENGINEER 7/4/28

Issue No. A Aug. 11, 1927
Revisions

Issue No. B Nov. 16, 1927
Drawing Checked.

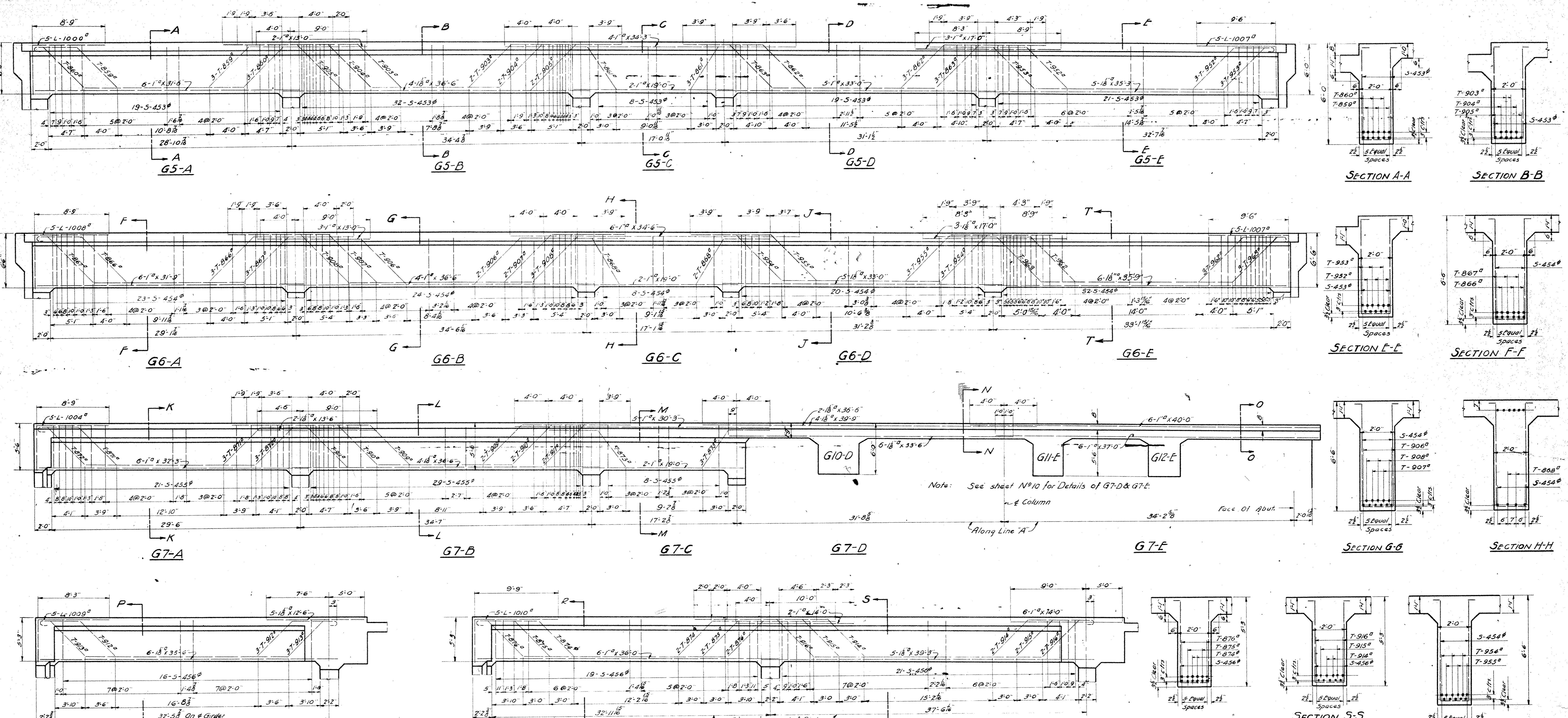
Issue No. 1 Dec. 16, 1927
Signed by Chief Engineer
Traced

Issue No. 2 Jan. 24, 1928
Approved By Heads of Departments.

Issue No. 3 Feb. 17, 1928
Revised to move Water Chambers
to West side of Bridge, and added
Girder G6-E.

Issue No. 4 April 24, 1928
Approved by the City.

Issue No. 5 Sept. 1, 1933
Plan Conforms to Structure as
Built.



WE HEREBY CERTIFY THAT THIS PLAN
SHOWS THE STRUCTURE AS BUILT.

E. V. Murrill 9/11/24
ENGINEER OF STRUCTURES

H. J. ... 1/20/28
ASST. ENGINEER OF CONSTRUCTION

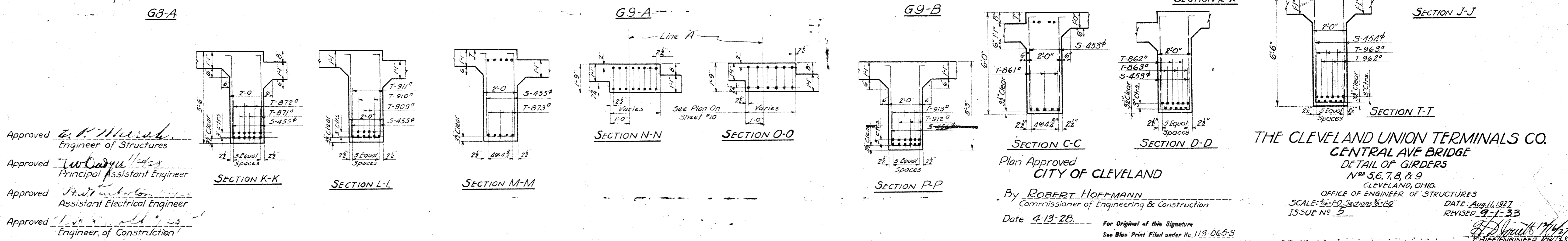
Designed By *G.T.C.* July 5, 1927
Detailed By *L.C.D.* Aug. 11, 1927
Traced By *J.J.N.* Nov. 29, 1927
Checked By *T.W.* Nov. 30, 1927
Correct *N.V.V.* 30 1927
G.A. ...
Designing Engineer

Approved *E. V. Murrill*
Engineer of Structures

Approved *H. J. ...*
Principal Assistant Engineer

Approved *H. J. ...*
Assistant Electrical Engineer

Approved *T. V. ...*
Engineer of Construction



THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE BRIDGE
DETAIL OF GIRDERS
Nos. 56, 7, 8, & 9
CLEVELAND, OHIO.
OFFICE OF ENGINEER OF STRUCTURES
SCALE: 3/4" = 1'-0" Sections 3'-10"
ISSUE No. 2

DATE: April 11, 1927
REVISED 9-1-33

By *ROBERT HOFFMANN*
Commissioner of Engineering & Construction
Date 4-13-28.

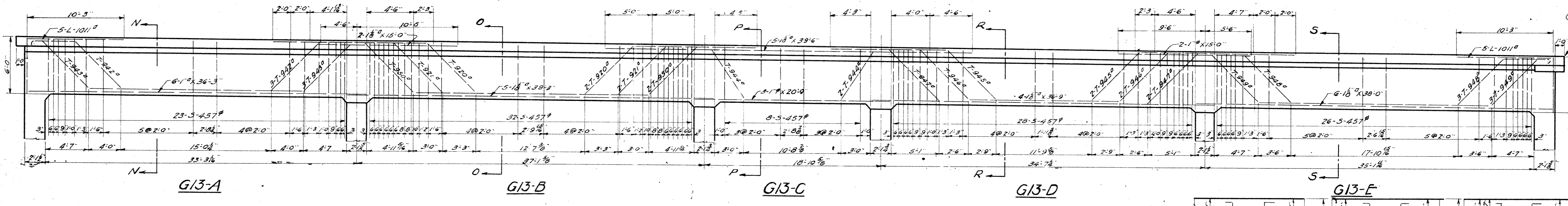
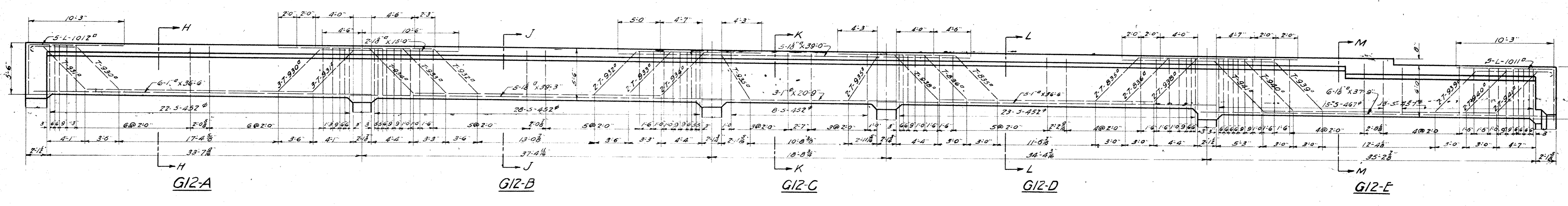
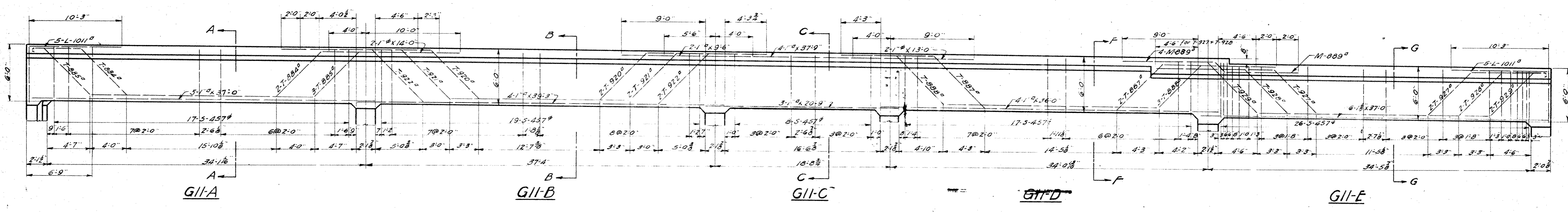
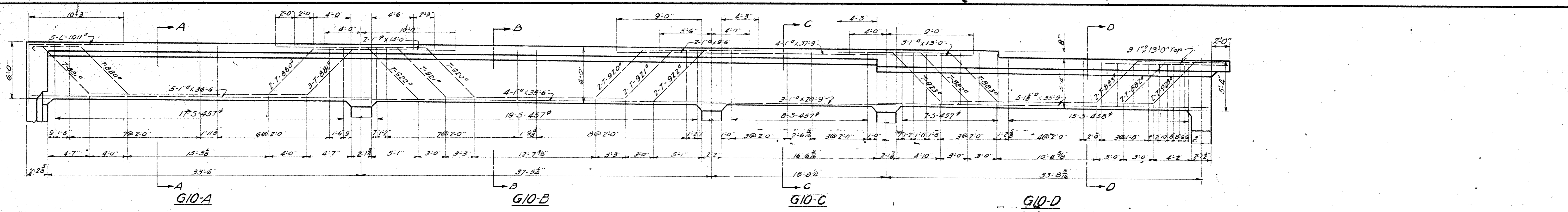
For Original of this Signature
See Blue Print Filed under No. 113-065-S

E. V. Murrill
ENGINEER

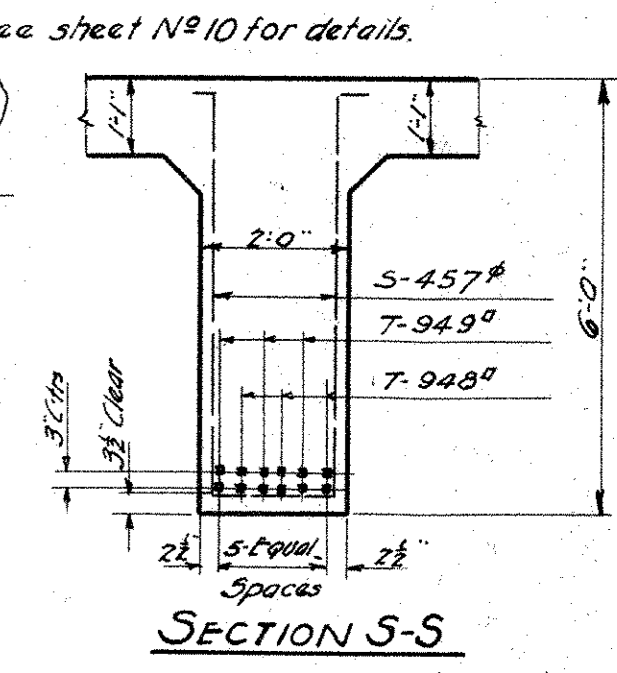
Issue No A Aug. 17, 1927
 Revisions
 Issue No B Nov. 15, 1927
 Drawing Checked
 Issue No 1 Nov. 30, 1927
 Approved by Chief Engineer
 Issue No 2 Dec. 20, 1927
 Traced & Checked
 Issue No 3 Dec. 29, 1927
 Signed by the Chief Engineer
 Issue No 4 Jan. 24, 1928
 Approved By Heads of Departments

Issue No 5 Feb. 8, 1928
 Removed Water Chamber from
 Elevation and Sections.
 Removed Girder G10-E
 Issue No 6 April 24, 1928
 Approved by the City

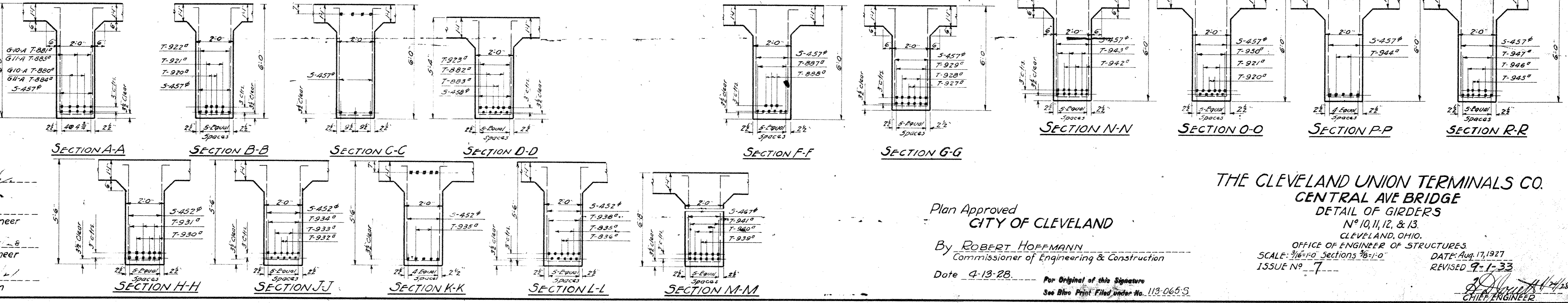
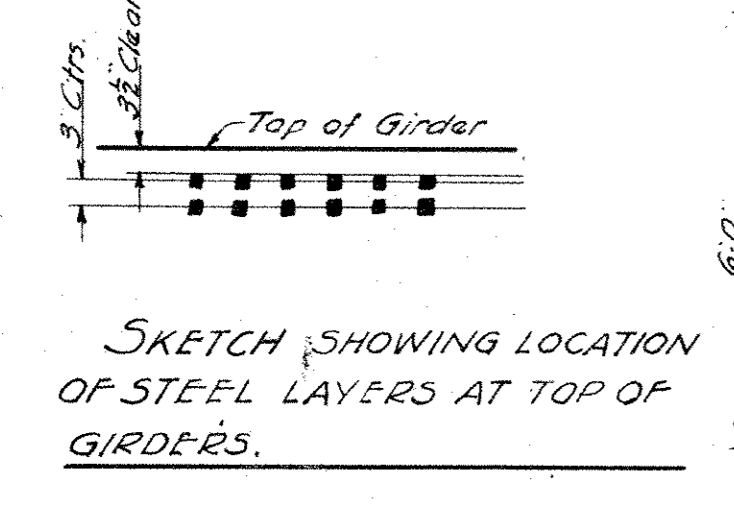
Issue No 7 Sept. 1, 1933
 Plan Conforms to Structure as
 Built



Note: All dimensions on elevations are measured on center of Girder.



We HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT.
 C. C. ...
 ENGINEER OF STRUCTURES
 T. W. ...
 ASST. ENGINEER OF CONSTRUCTION



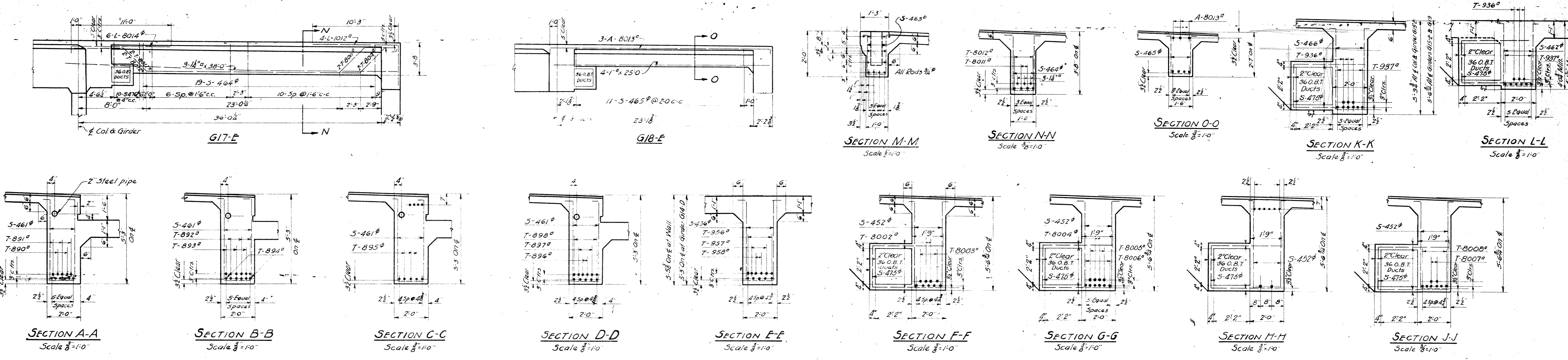
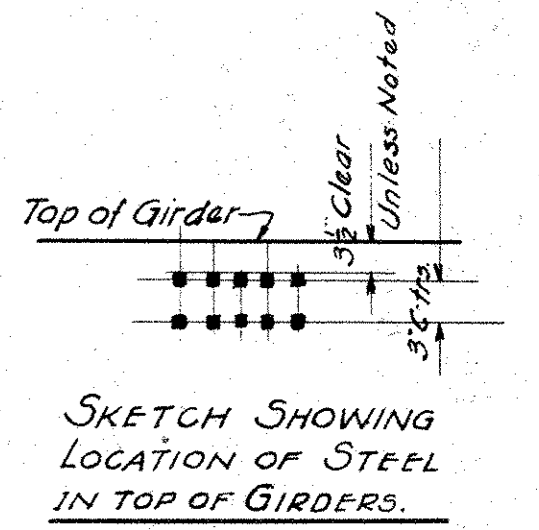
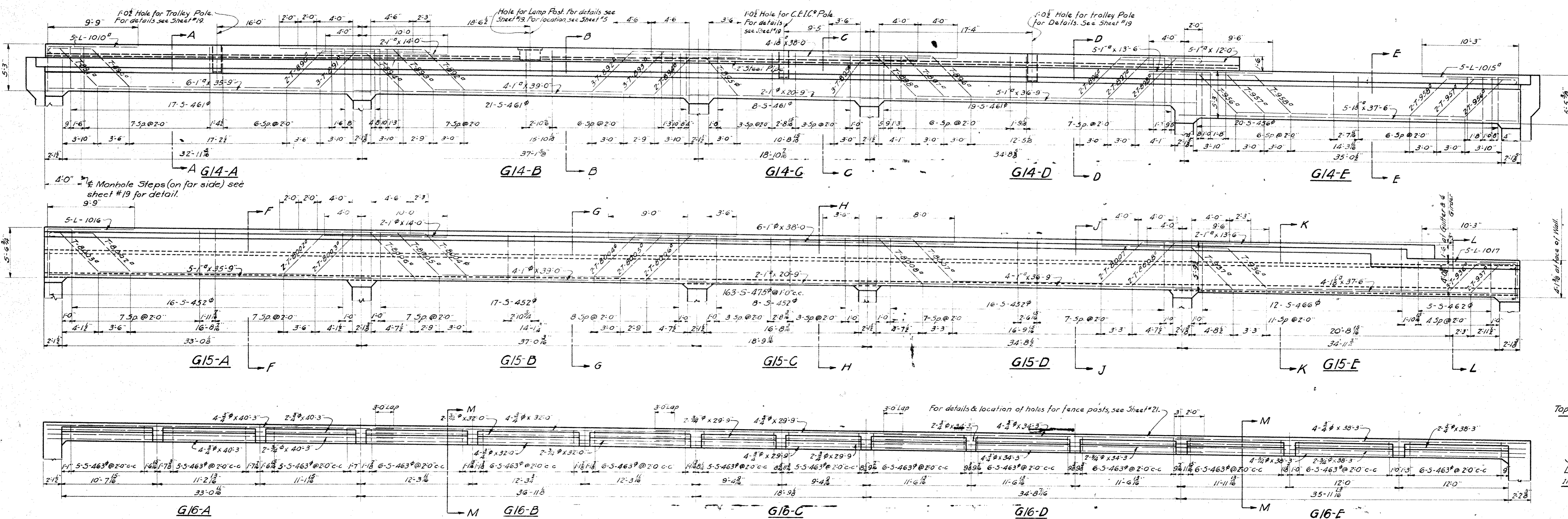
Designed By G.T.C. July 5, 1927
 Detailed By L.C.B. Aug 11, 1927
 Traced By J.I.N. Dec. 19, 1927
 Checked By T.W. Dec. 20, 1927
 Correct Dec 24 1927
 S. S. ...
 Designing Engineer

Approved ...
 Engineer of Structures
 Approved ...
 Principal Assistant Engineer
 Approved ...
 Assistant Electrical Engineer
 Approved ...
 Engineer of Construction

Plan Approved
 CITY OF CLEVELAND
 By ROBERT HOFFMANN
 Commissioner of Engineering & Construction
 Date 4-13-28
 For Original of this Signature
 See Blue Print Filed Under No. 113-065-S

THE CLEVELAND UNION TERMINALS CO.
 CENTRAL AVE BRIDGE
 DETAIL OF GIRDERS
 No 10, 11, 12, & 13.
 CLEVELAND, OHIO.
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: 3/16"=1'-0" Sections 3/8"=1'-0"
 ISSUE No 7
 DATE: Aug. 17, 1927
 REVISED 9-1-33
 CHIEF ENGINEER

Issue No A Oct. 20, 1927
 Revisions
 Issue No B Nov. 15, 1927
 Drawing Checked
 Issue No 1 Nov. 30, 1927
 Approved by Chief Engineer
 Issue No 2 Dec. 22, 1927
 Traced & Checked
 Issue No 3 Dec. 29, 1927
 Signed by the Chief Engineer
 Issue No 4 Jan. 24, 1928
 Approved By Heads of Departments
 Issue No 5 Feb. 8, 1928
 Removed Water Chamber from Elevation and Sections.
 Issue No 6 April 24, 1928
 Approved by the City
 Issue No 7 Sept. 1, 1933
 Plan Conforms to Structure, as Built



We HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT.
 W. Marsh
 ENGINEER OF STRUCTURES
 H. L. ...
 ASST. ENGINEER OF CONSTRUCTION

Note: All Dimensions on Elevations are measured on $\frac{1}{2}$ Girders.

Designed By G.T.C. & J.H.C. Oct. 10, 1927
 Detailed By L.C.B. Oct. 20, 1927
 Traced By J.J.N. Dec. 22, 1927
 Checked By T.W. Dec. 23, 1927
 Correct Dec. 29, 1927
 F.L. ...
 Designing Engineer

Approved ...
 Engineer of Structures
 Approved ...
 Principal Assistant Engineer
 Approved ...
 Assistant Electrical Engineer
 Approved ...
 Engineer of Construction

Plan Approved
 CITY OF CLEVELAND

By ROBERT HOFFMANN
 Commissioner of Engineering & Construction
 Date 4-13-28

THE CLEVELAND UNION TERMINALS CO.
 CENTRAL AVE BRIDGE
 DETAIL OF GIRDERS
 G14, G15, G16, G17, & G18.
 CLEVELAND, OHIO.
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: 1/8" = 1'-0" Details As Shown
 DATE 10-20-27
 ISSUE No 7
 REVISION 7-1-33
 CHIEF ENGINEER

Issue No A Oct. 20, 1927

REVISIONS:-

Issue No B Nov. 22, 1927

Drawing Checked and Traced.

Issue No 1 Nov. 30, 1927

Signed By Chief Engineer.

Issue No 2 Jan. 24, 1928

Approved By Heads of Departments.

Issue No 3 Feb. 21, 1928

Revised to move all Water

Chambers to West side of Bridge,

removed Girder G10-E, added G6-E.

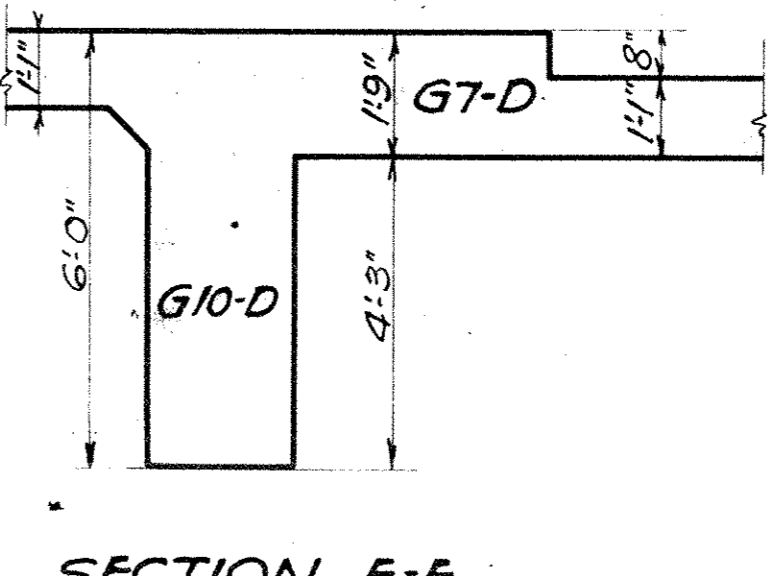
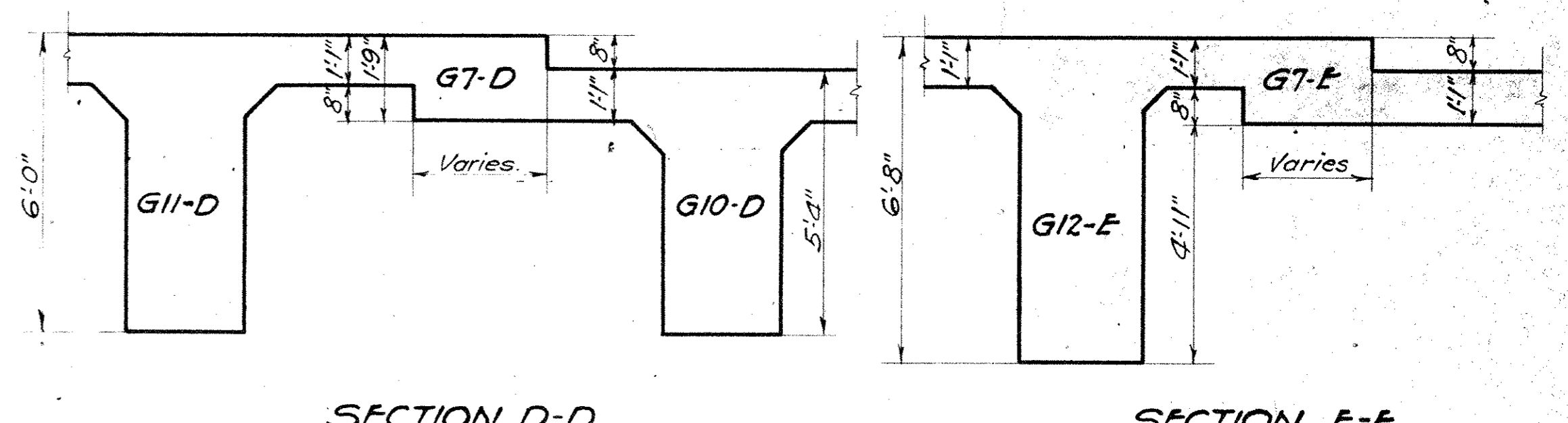
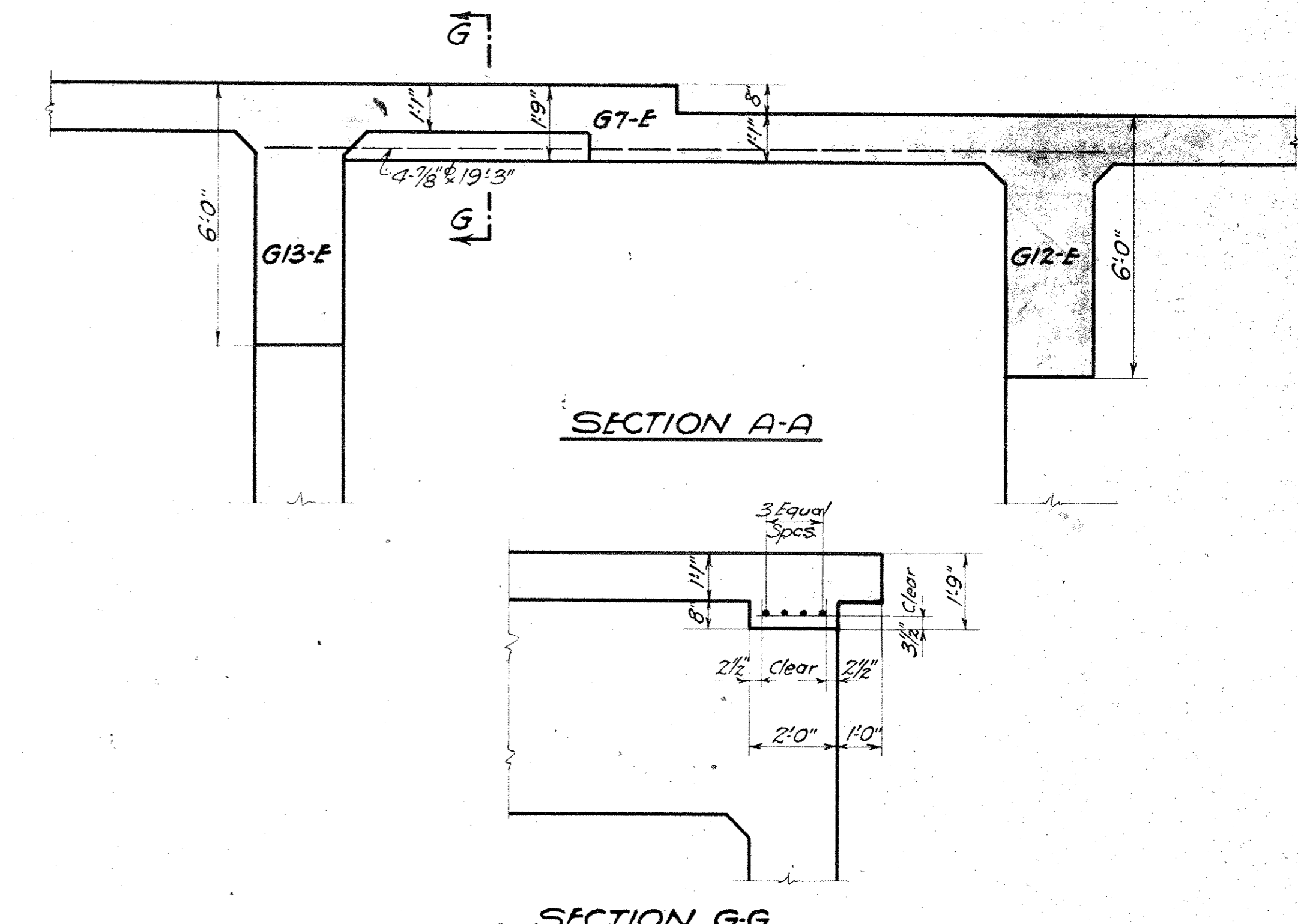
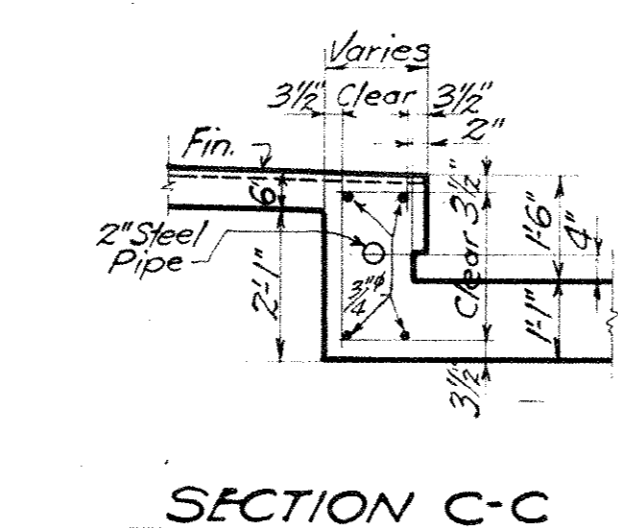
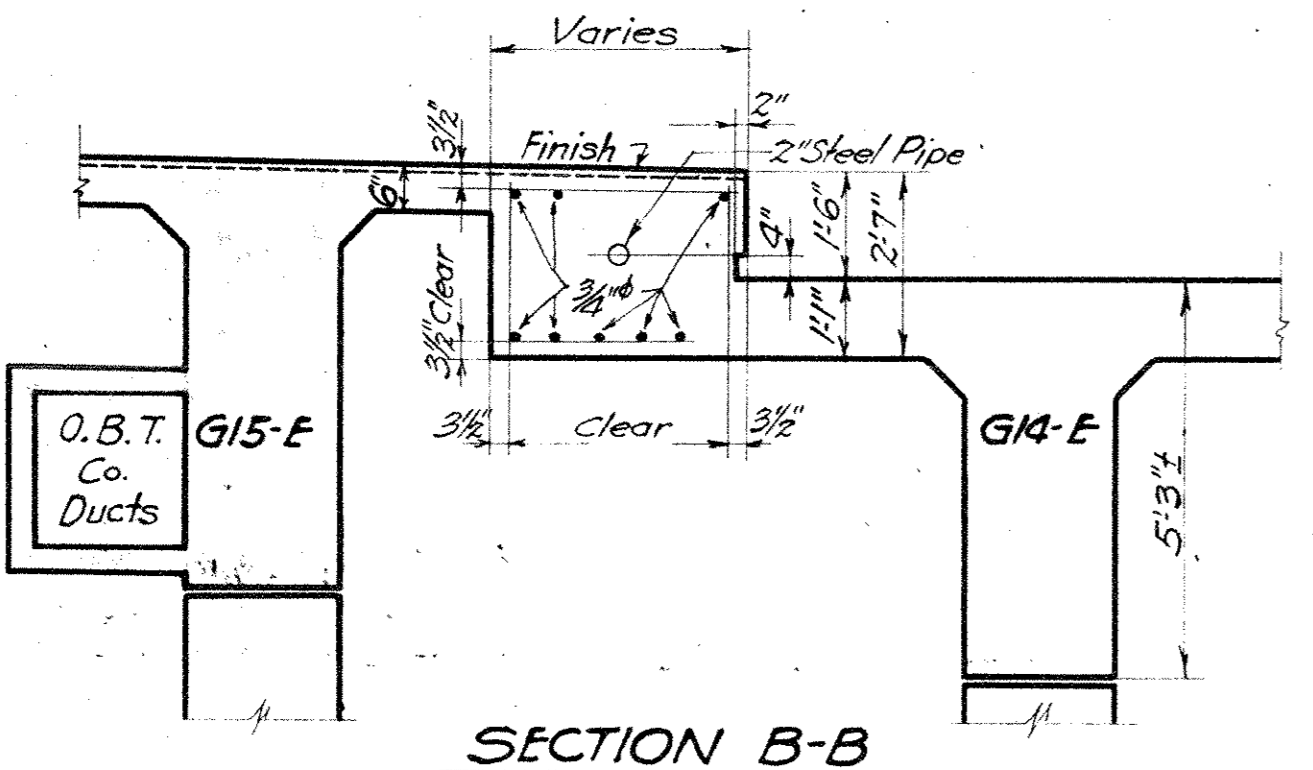
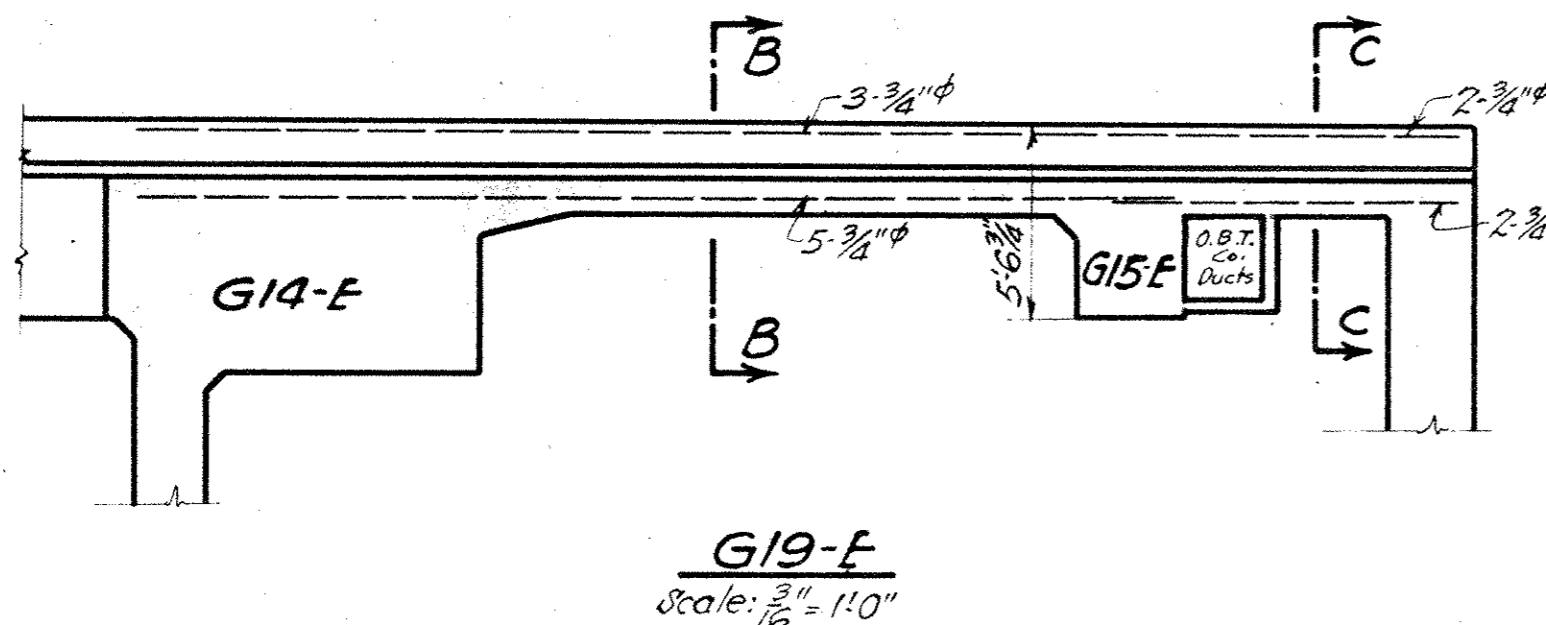
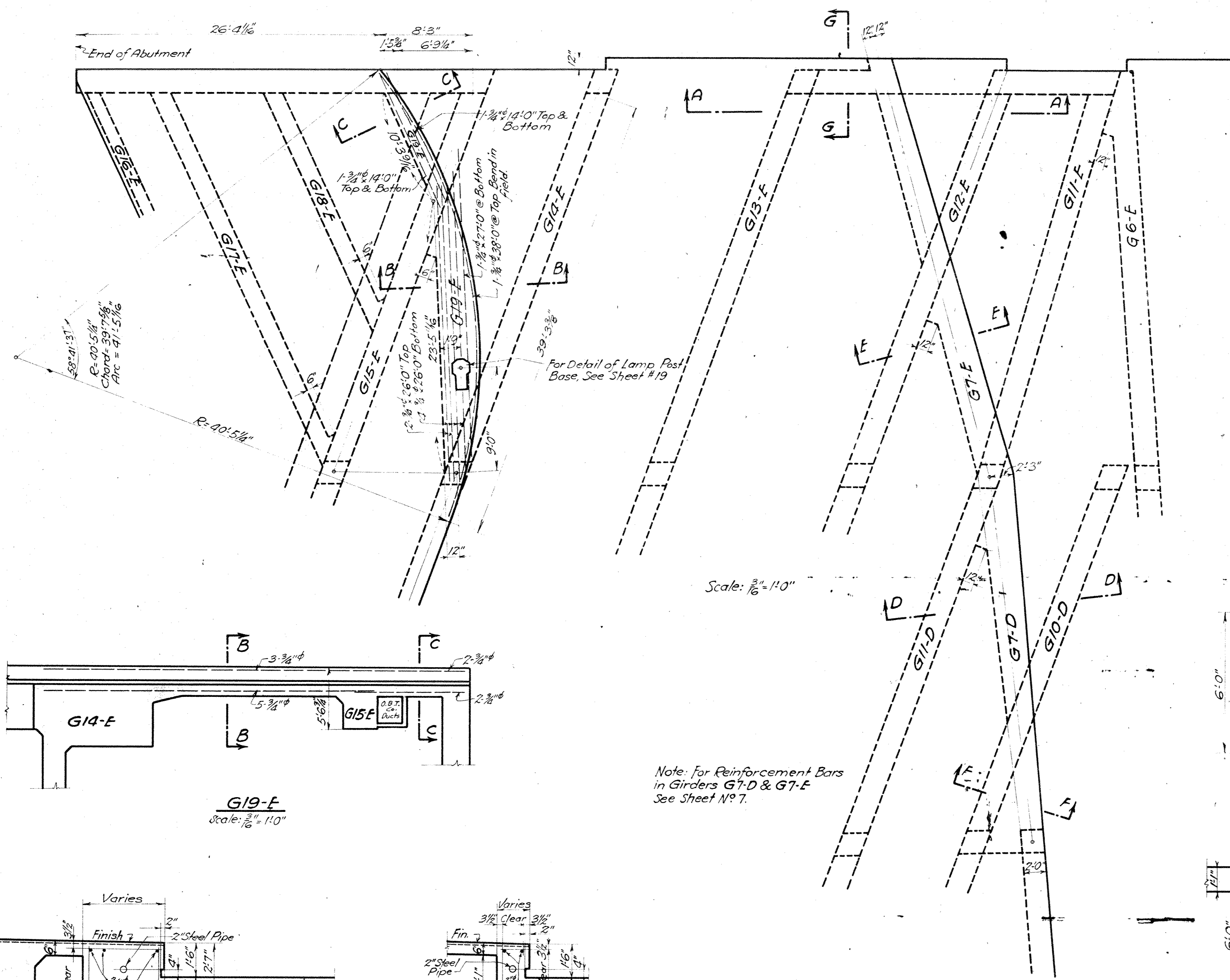
Issue No 4 April 24, 1928

Approved by the City.

Issue No 5 Sept. 1, 1933

Plan Conforms to Structure as

Built.



Note: For Reinforcement Bars in Girders G7-D & G7-E See Sheet No 7.

We HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT.

G. C. ...
ENGINEER OF STRUCTURES

H. E. ...
ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. Sept. 30, 1927.

Detailed By T.W. Oct. 20, 1927.

Traced By S.H. Nov. 22, 1927.

Checked By L.C.B. Nov. 15, 1927.

Correct Nov. 30, 1927.

L. G. ...
Designing Engineer

Approved *G. C. ...*
Engineer of Structures

Approved *T. W. ...*
Principal Assistant Engineer

Approved *S. H. ...*
Assistant Electrical Engineer

Approved *L. C. B. ...*
Engineer of Construction

Plan Approved
CITY OF CLEVELAND

By *ROBERT HOFFMANN*
Commissioner of Engineering & Construction

Date 4-13-28.

THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE. BRIDGE
DETAILS OF GIRDERS
G7-D, G7-E & G19-F

OFFICE OF ENGINEER OF STRUCTURES
CLEVELAND, OHIO

SCALE AS SHOWN

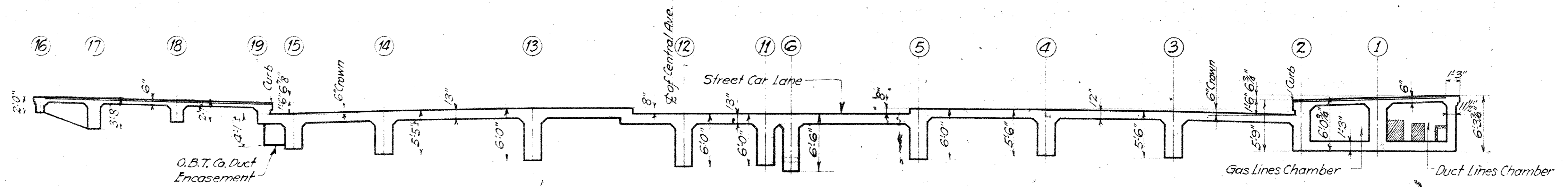
DATE OCT. 20, 1927.

REVISED 9-1-33

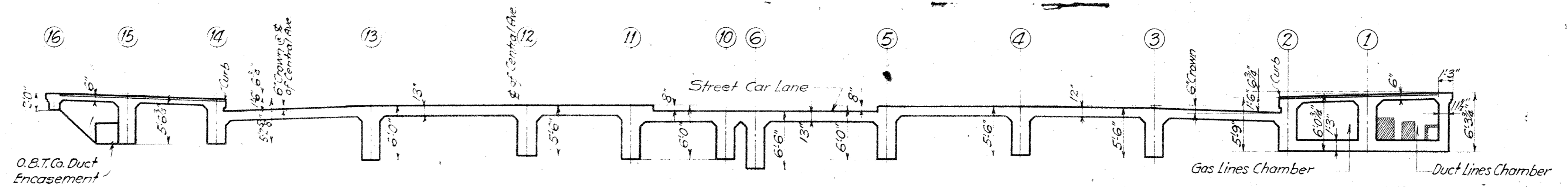
ISSUE No. 5

R. Hoffmann
CHIEF ENGINEER 11/27/28

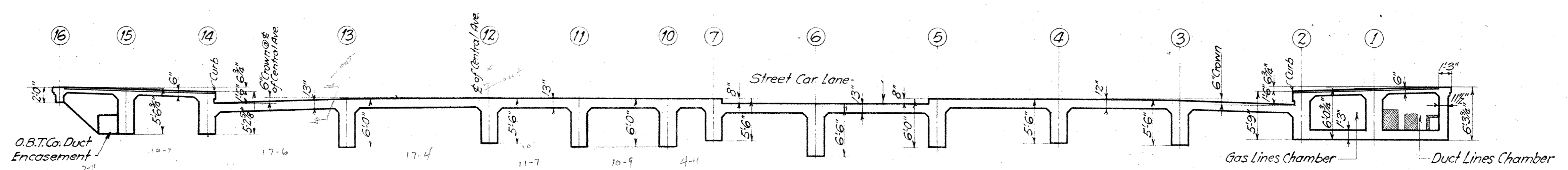
Issue No A Oct. 20, 1927
 REVISIONS:
 Issue No B Nov. 21, 1927
 Checked and Drawing Traced.
 Issue No 1 Nov. 30, 1927
 Signed By Chief Engineer.
 Issue No 2 Jan. 24, 1928
 Approved By Heads of Departments.
 Issue No 3 Feb. 8, 1928
 Removed Water Chambers.
 Issue No 4 April 24, 1928
 Approved by the City.
 Issue No 5 Sept. 1, 1933
 Plan Conforms to Structure as Built.



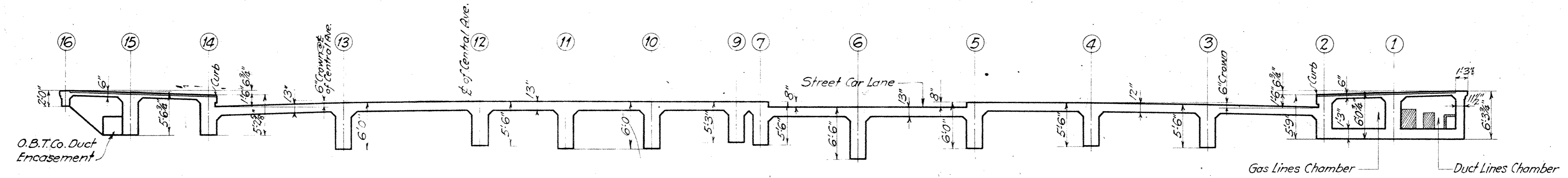
SECTION O-O



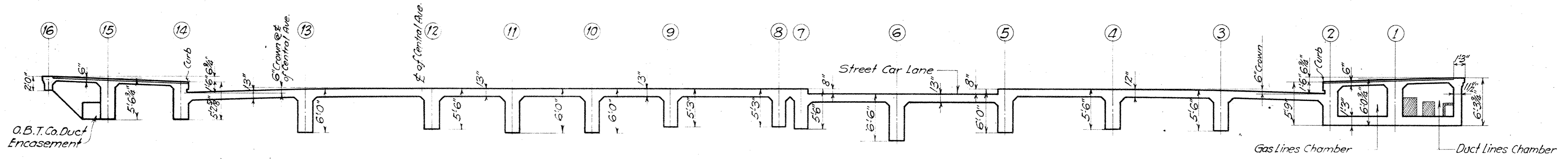
SECTION P-P



SECTION Q-Q



SECTION R-R



SECTION S-S

NOTE: For Location of Sections See Sheet No 5

WE HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT

E. C. Marsh
 ENGINEER OF STRUCTURES
 ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. & J.H.C. 7-5-1927
 Detailed By S.H. Oct. 20, 1927
 Traced By S.H. Nov. 21, 1927
 Checked By T.W. Nov. 18, 1927
 Correct Nov. 30, 1927
A.L. Johnson
 Designing Engineer

Approved *E.P. Marsh*
 Engineer of Structures
 Approved *J.W. Smith*
 Principal Assistant Engineer
 Approved *W.H. ...*
 Assistant Electrical Engineer
 Approved *...*
 Engineer of Construction

Plan Approved
 CITY OF CLEVELAND

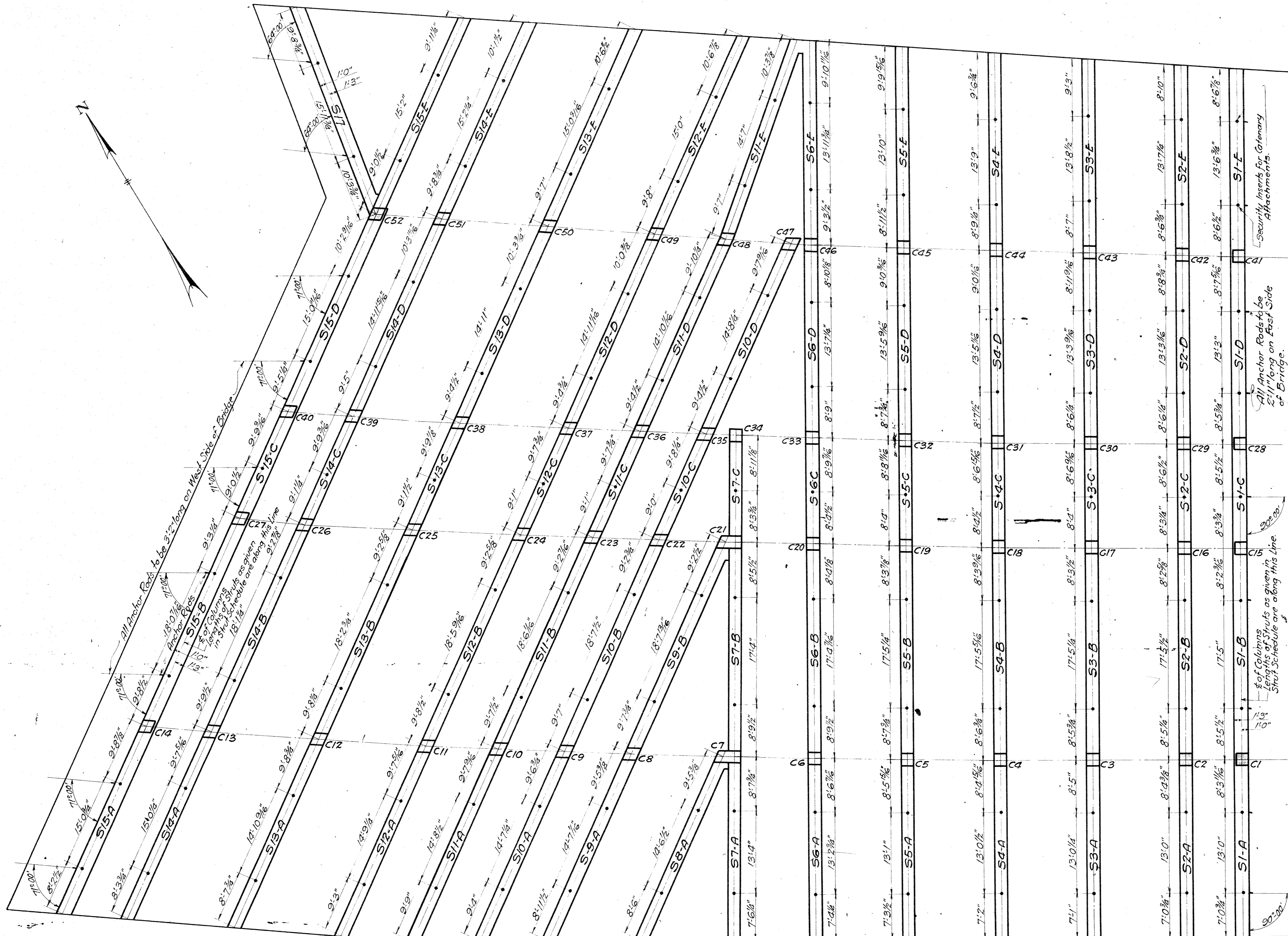
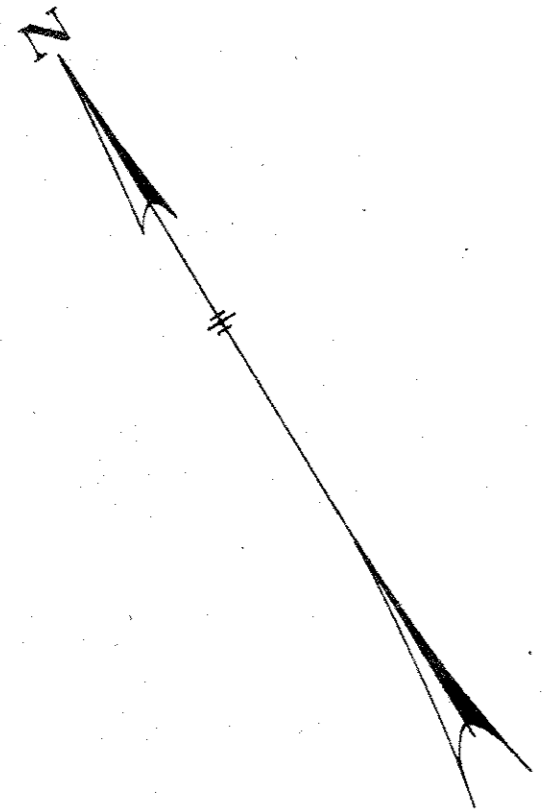
By *ROBERT HOFFMANN*
 Commissioner of Engineering & Construction
 Date 4-13-28

For Original of this Signature
 See Blue Print Filed under No. 113-046-3

THE CLEVELAND UNION TERMINALS CO.
 CENTRAL AVE. BRIDGE
 CROSS SECTIONS OF DECK
 CLEVELAND, OHIO.
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: 1/4" = 1'-0"
 ISSUE No. 5
 DATE OCT. 20, 1927
 REVISED 9-1-33

REVISIONS:

- Issue No B Nov. 23, 1927.
Drawing Checked and Traced.
- Issue No 1 Nov. 30, 1927.
Signed By Chief Engineer.
- Issue No 2 Jan. 24, 1928.
Approved By Heads of Departments.
- Issue No 3 April 24, 1928.
Approved by the City.
- Issue No 4 July 30, 1928.
Revised Details of Catenary Anchor Rods.
- Issue No 5 Sept. 1, 1933.
Plan Conforms to Structure as Built.



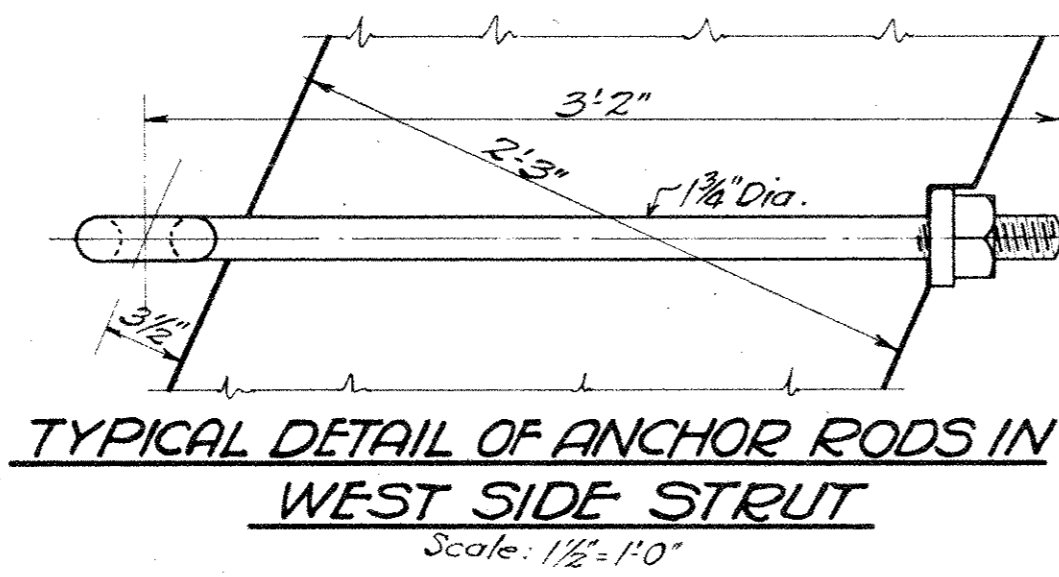
We HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT

E. C. Mark
ENGINEER OF STRUCTURES

J. L. ...
ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. May 31, 1927.
Detailed By H.B. May 31, 1927.
Traced By S.H. Nov. 23, 1927.
Checked By J.H.C. Nov. 23, 1927.
Correct *12/23/27*
G.L. ...
Designing Engineer

Approved *E. C. Mark*
Engineer of Structures
Approved *J. L. ...*
Principal Assistant Engineer
Approved *J. H. C.*
Assistant Electrical Engineer
Approved *J. L. ...*
Engineer of Construction



FRAMING PLAN OF STRUTS

Scale: 1/2" = 1'-0"
Note: For Dimensions See Sheet No 2.

Plan Approved
CITY OF CLEVELAND

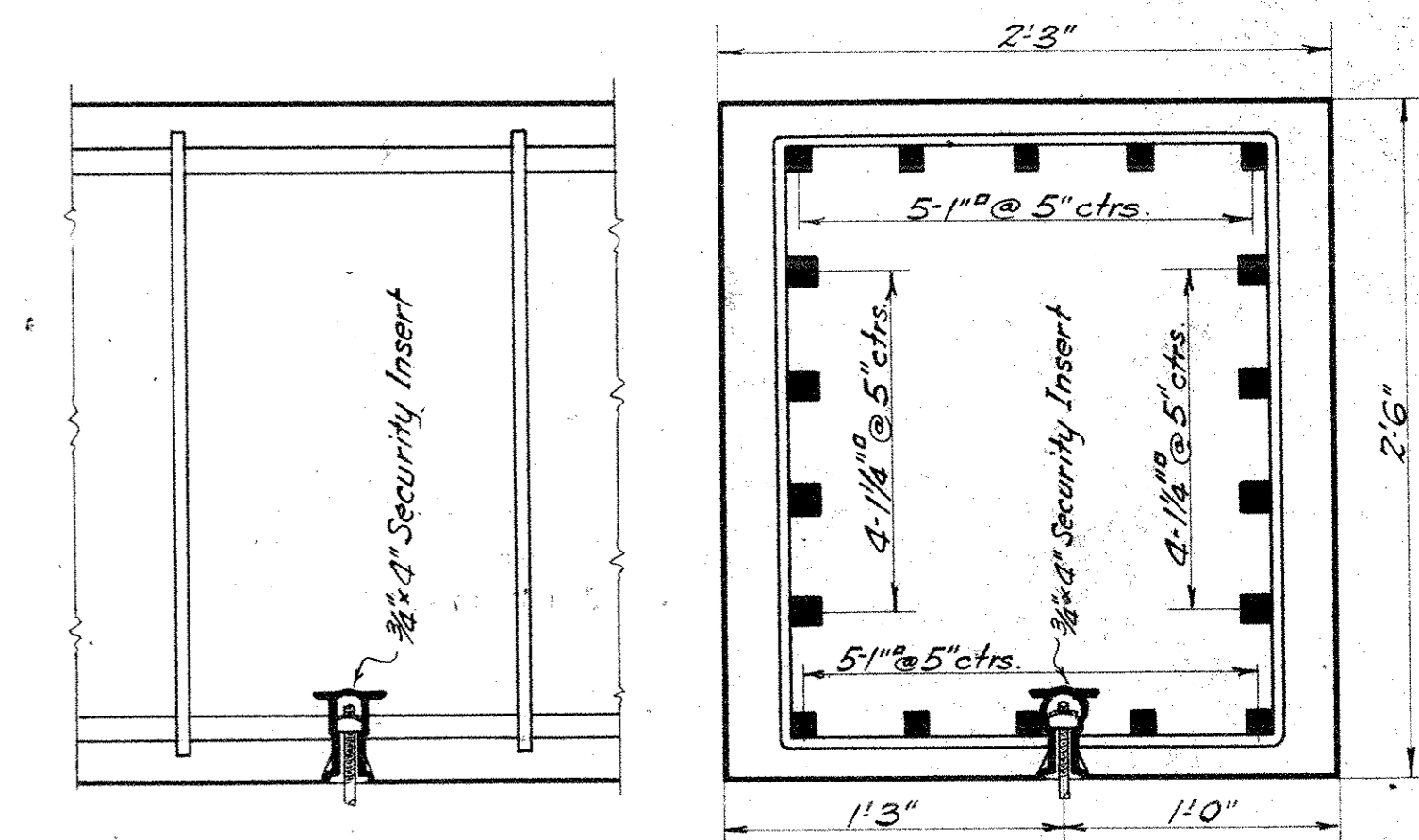
By *ROBERT HOFFMANN*
Commissioner of Engineering & Construction

Date 4-13-28

For Original of this Signature
See Blue Print Filed under N. 113-065-5

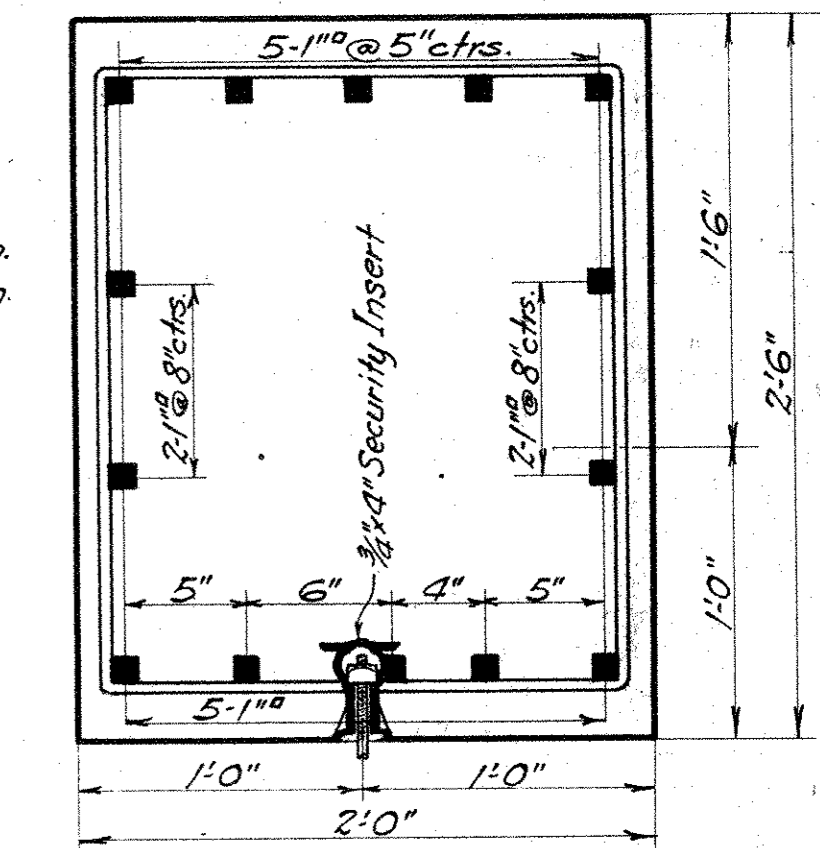
THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE. BRIDGE
PLAN OF COLUMNS
AND STRUTS
CLEVELAND, OHIO.

OFFICE OF ENGINEER OF STRUCTURES
SCALE: AS SHOWN
ISSUE NO. 5
DATE MAY 31, 1927.
REVISED 9-1-33.

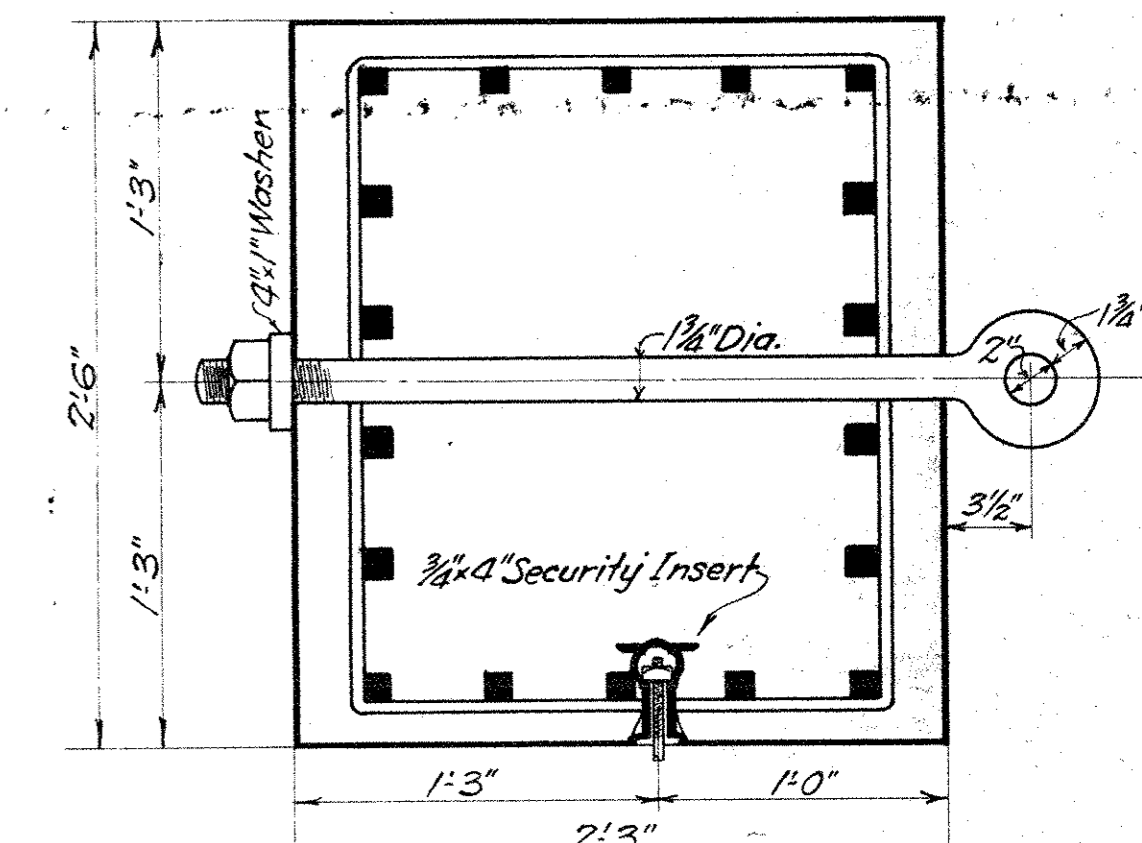


LONGITUDINAL SECTION CROSS SECTION
TYPICAL SECTIONS OF EXTERIOR STRUTS
Showing Catenary Attachments and Reinforcement
Scale: 1/2" = 1'-0"

Required -
113 Inserts as shown.
18-1/2\"/>



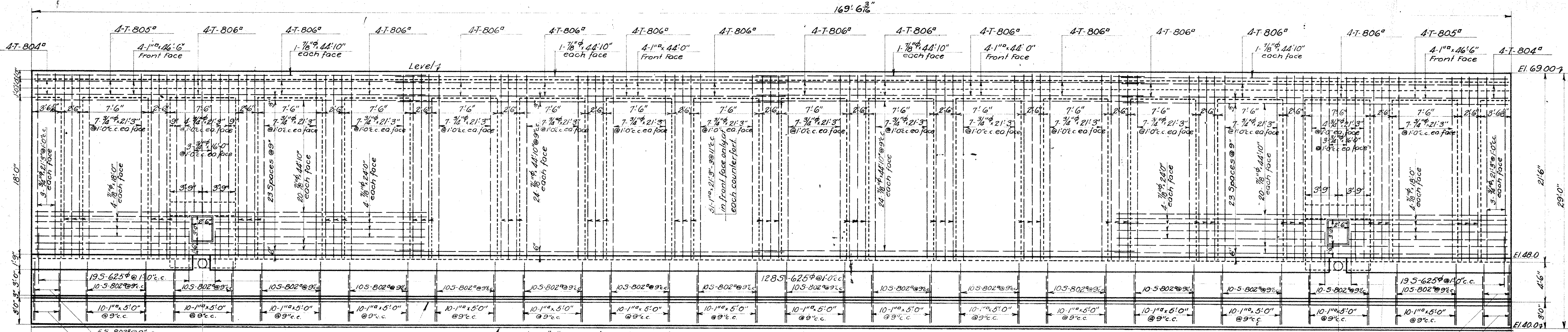
TYPICAL SECTION OF INTERIOR STRUTS
Showing Catenary Attachments and Reinforcement.
Scale: 1/2" = 1'-0"



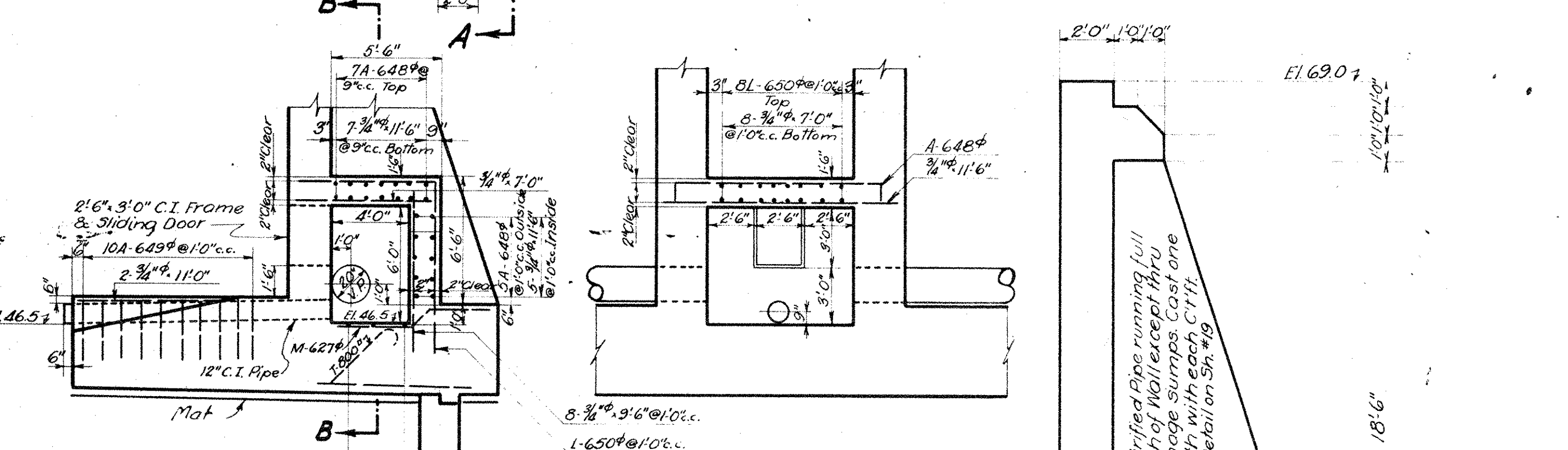
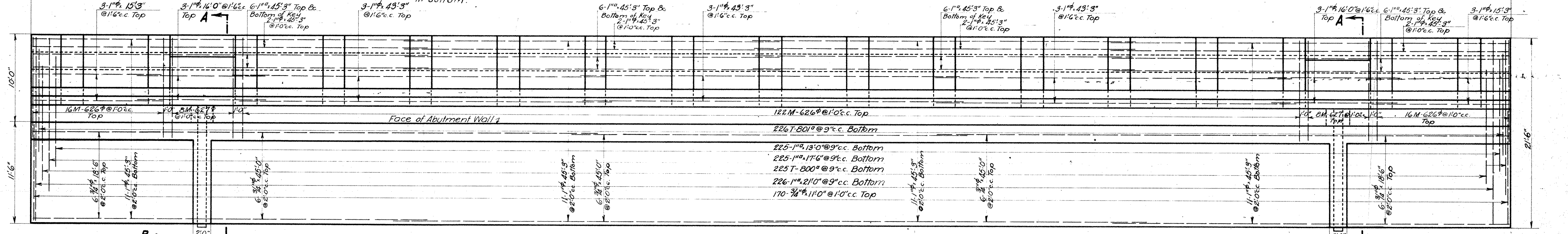
TYPICAL SECTION OF EXTERIOR STRUTS
Showing Anchor Rod for O.H. Catenary
Scale: 1/2" = 1'-0"

NOTE: All parts of Catenary Attachments to be hot dip galvanized.

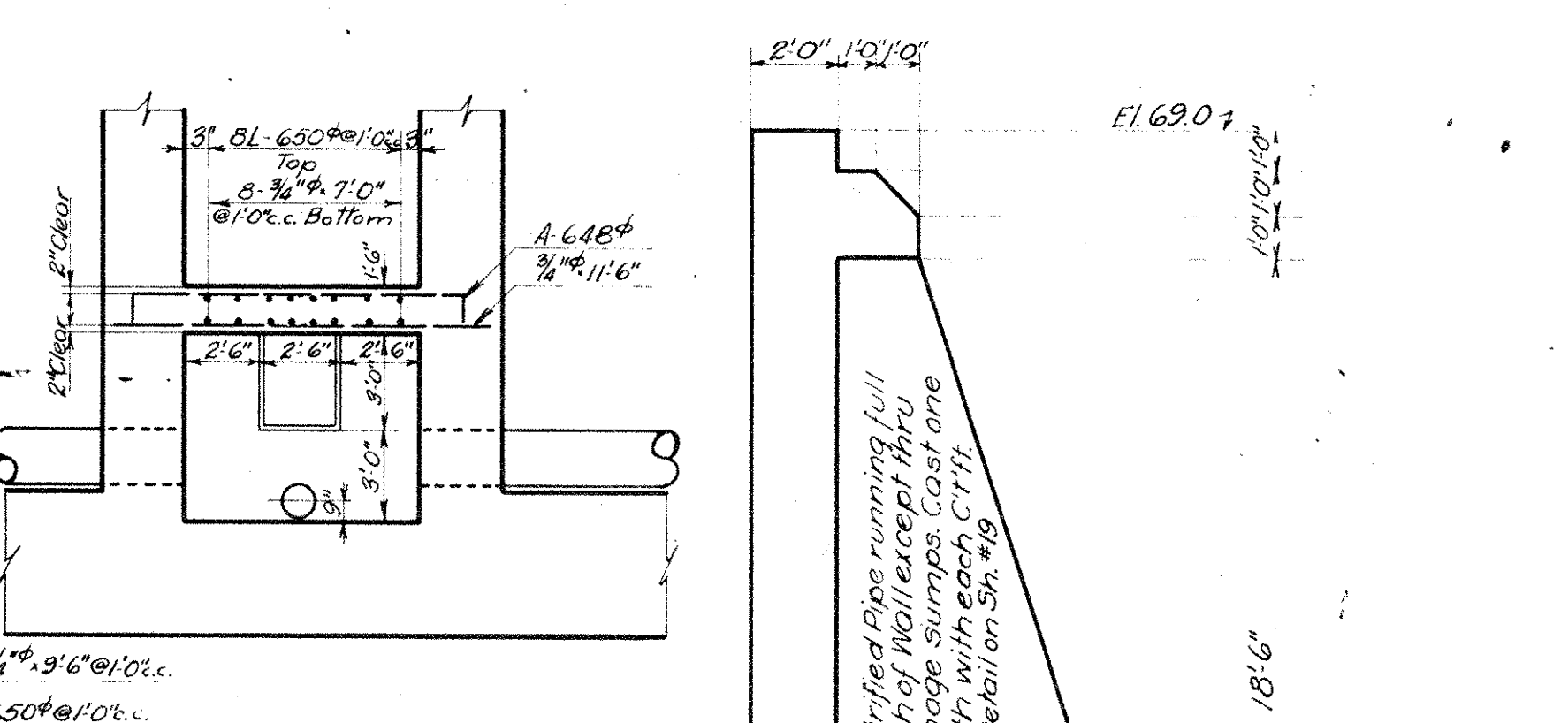
Issue No 1 June 20, 1927
 Revisions:
 Issue No 2 Nov. 14, 1927
 Checked and drawing traced.
 Issue No 3 Nov. 30, 1927
 Signed By Chief Engineer.
 Issue No 4 Jan. 24, 1928
 Approved By Heads of Departments.
 Issue No 5 April 24, 1928
 Approved by the City.
 Issue No 6 Sept. 1, 1933
 Plan Corrected to Conform to
 Structure as Built.



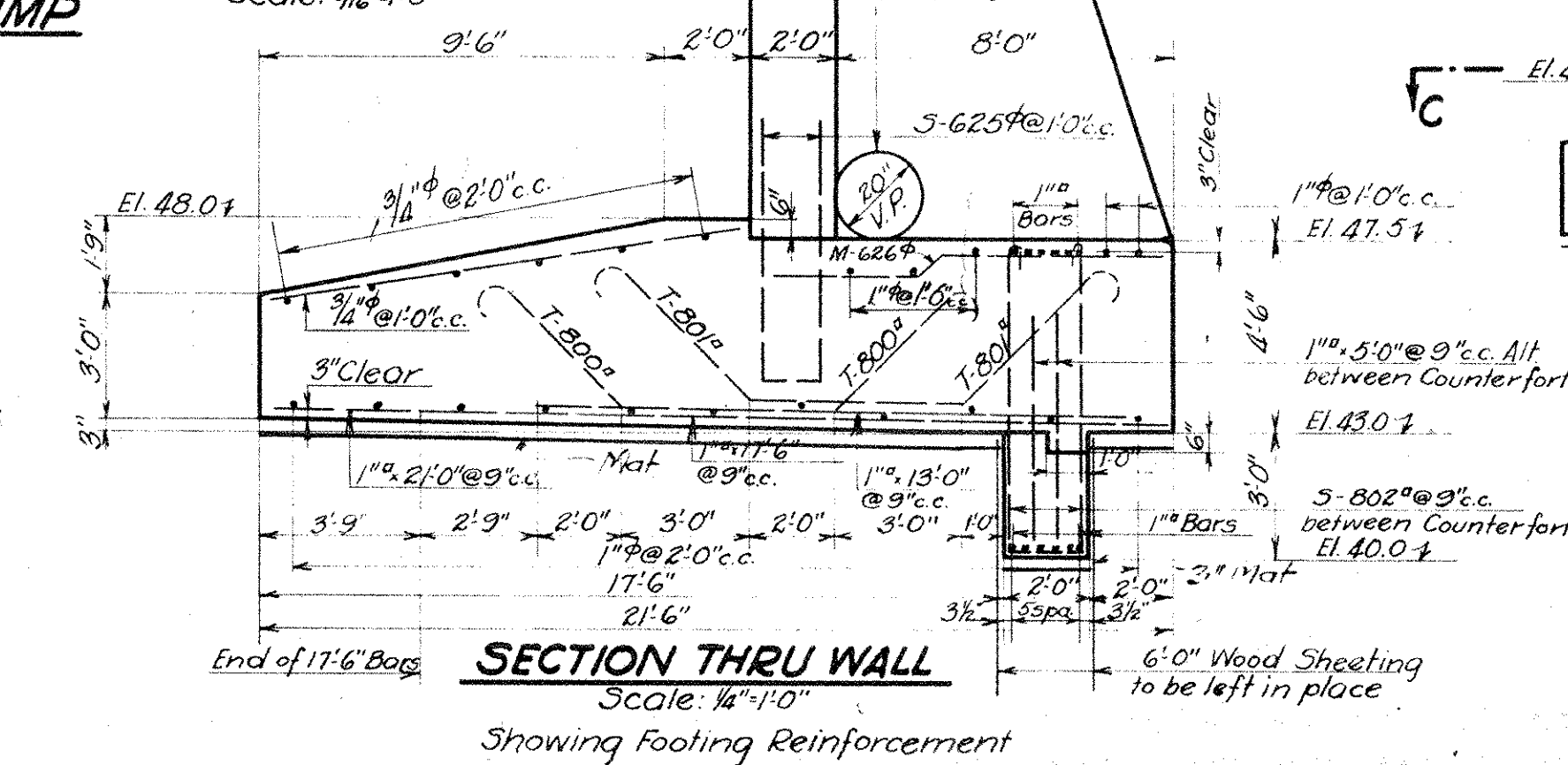
ELEVATION
 Scale: 3/16"=1'-0"
 Showing Wall Reinforcement and Dowels



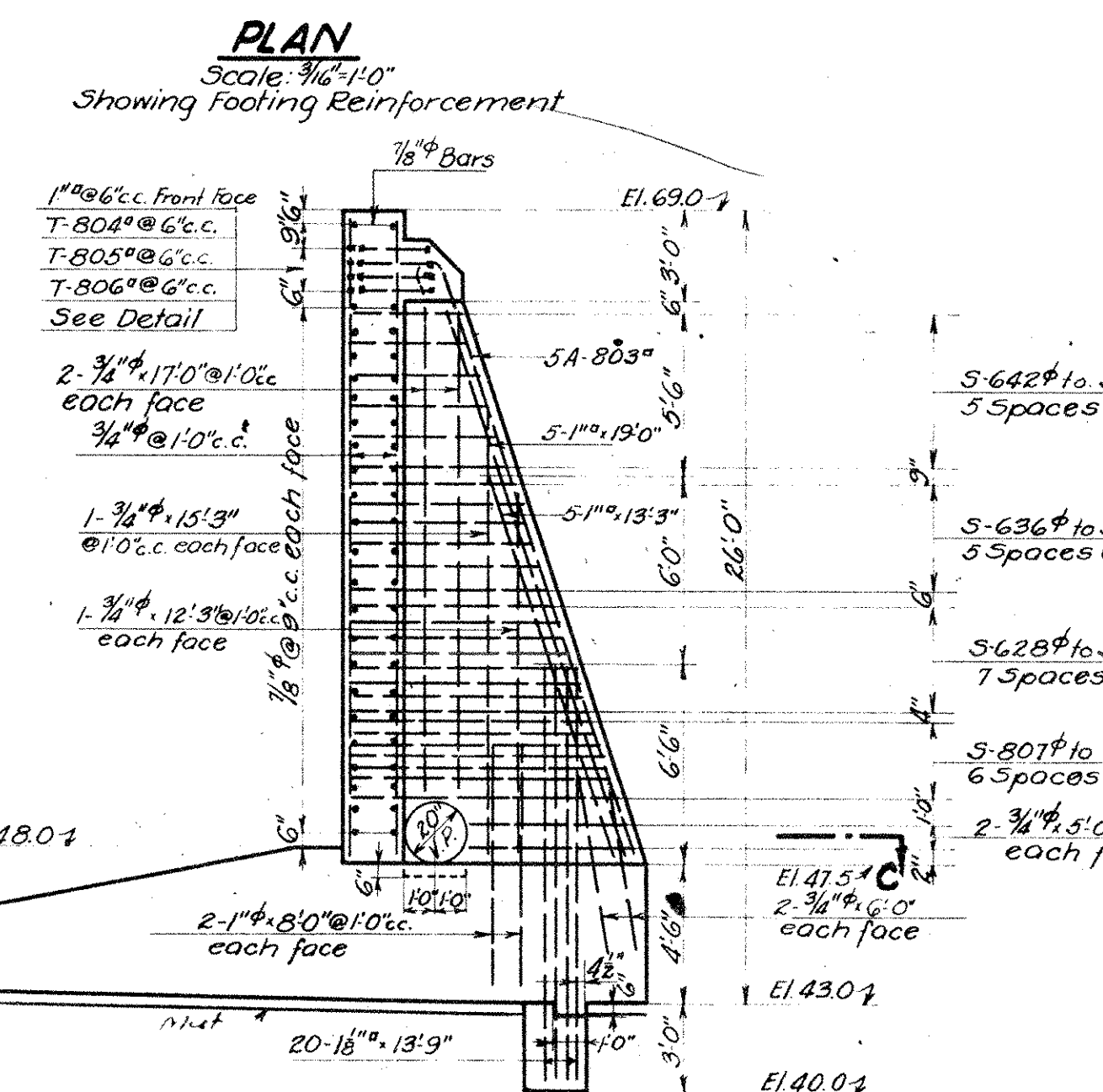
SECTION A-A SHOWING DRAINAGE SUMP
 Scale: 3/16"=1'-0"



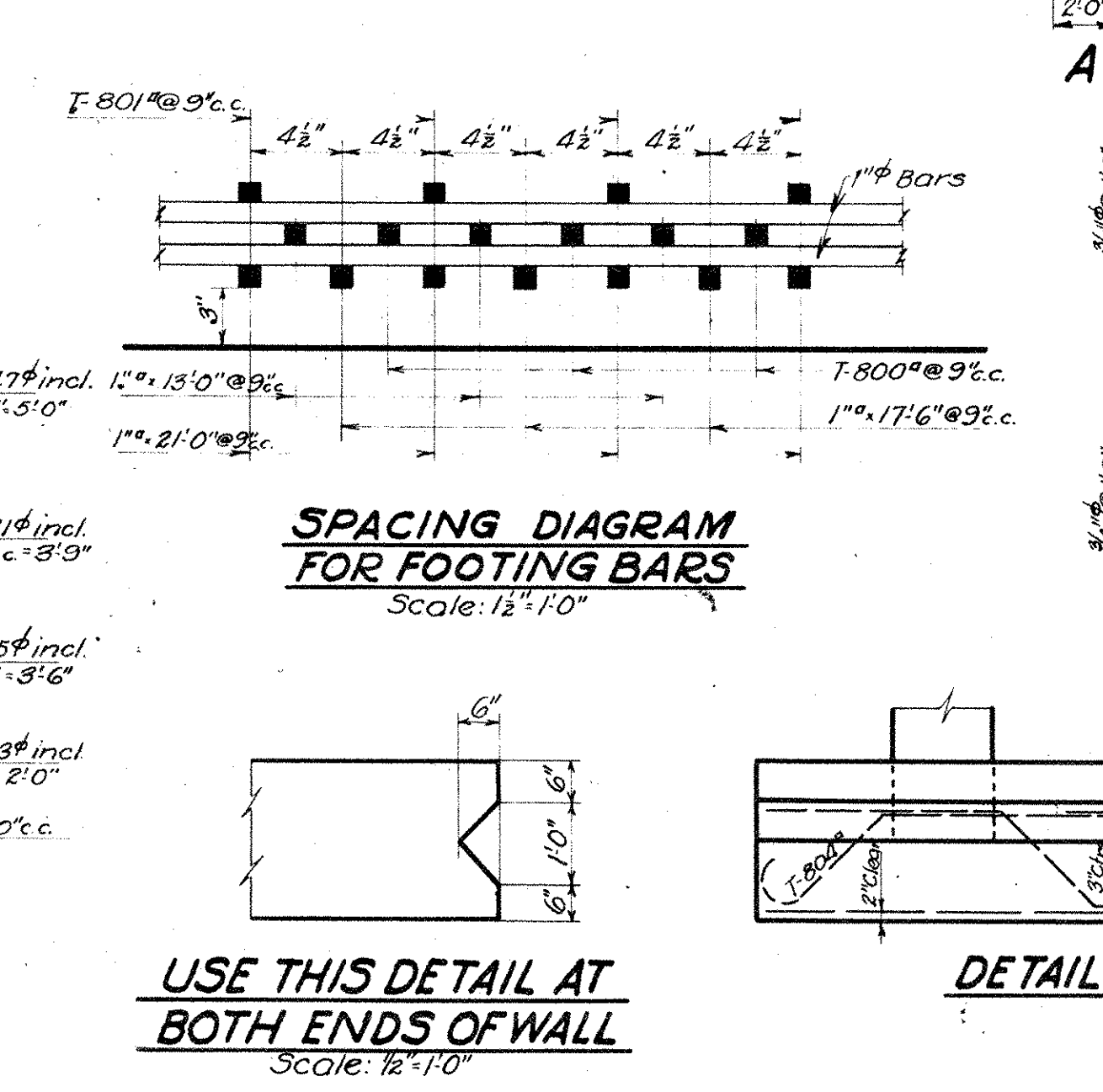
SECTION B-B
 Scale: 3/16"=1'-0"



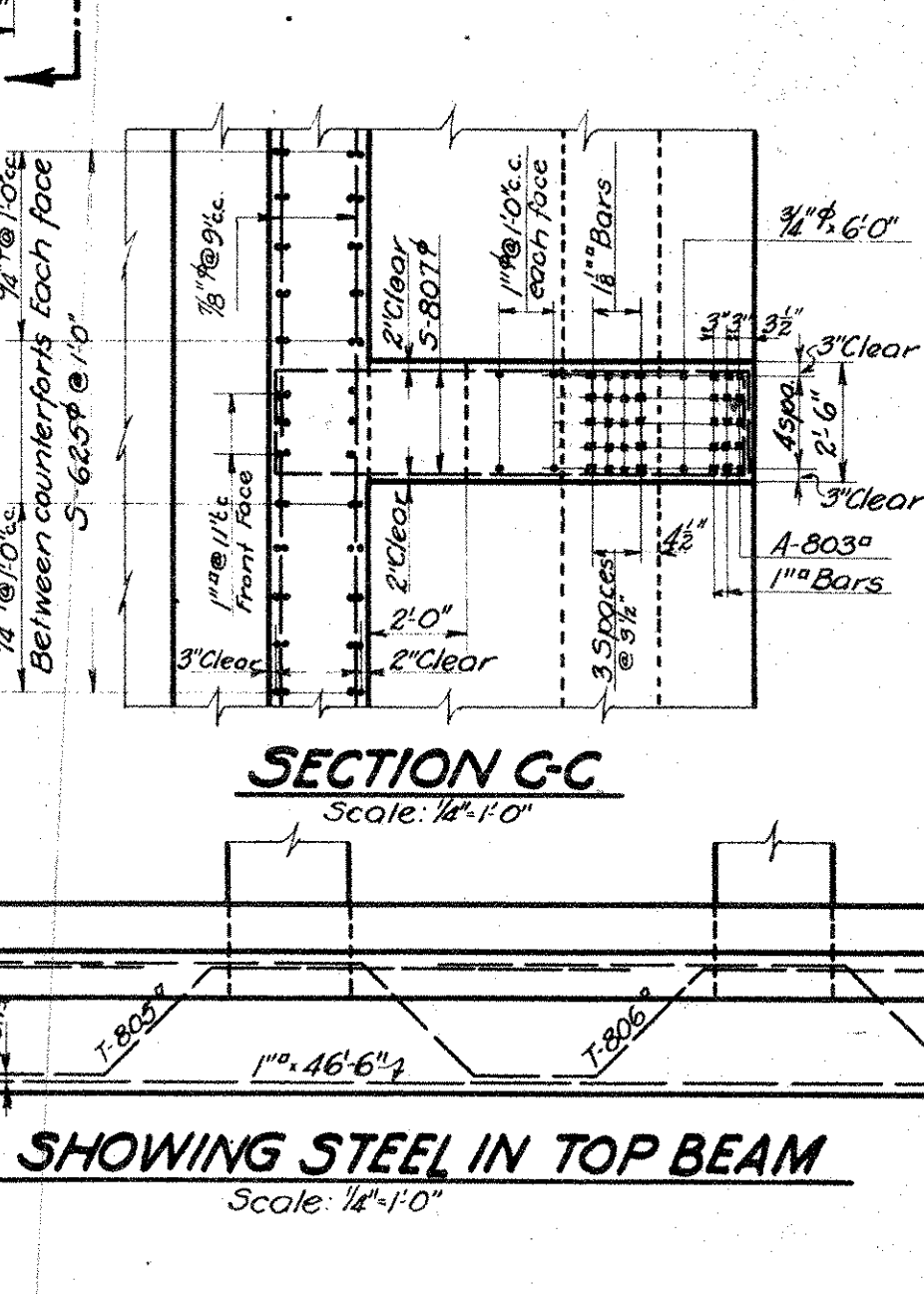
SECTION THRU WALL
 Scale: 1/4"=1'-0"



SECTION THRU WALL
 Scale: 3/16"=1'-0"



SPACING DIAGRAM FOR FOOTING BARS
 Scale: 1/2"=1'-0"



DETAIL SHOWING STEEL IN TOP BEAM
 Scale: 1/2"=1'-0"

We HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT.

E. P. Marsh
 ENGINEER OF STRUCTURES

ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. June 20, 1927
 Detailed By H.B. June 20, 1927
 Traced By H.B. Nov. 14, 1927
 Checked By L.C.B. Nov. 14, 1927
 Corrected Nov. 20, 1927
 Designing Engineer

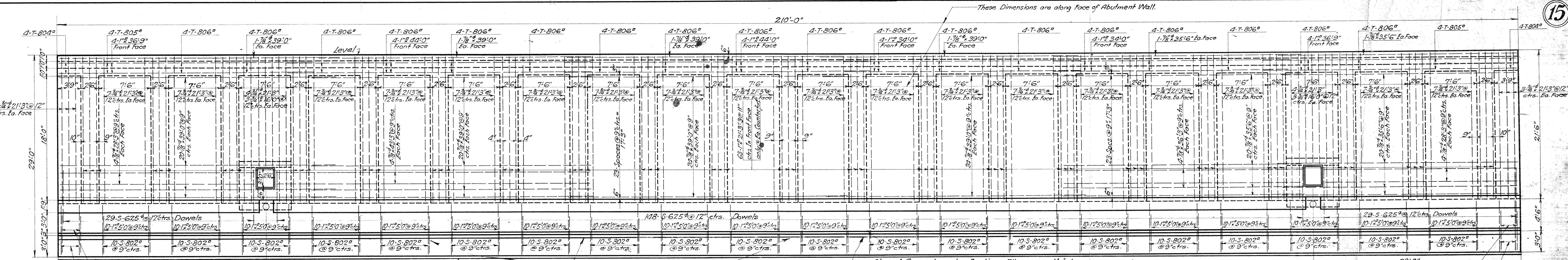
Approved *E. P. Marsh*
 Engineer of Structures
 Approved *J. W. ...*
 Principal Assistant Engineer
 Approved *...*
 Assistant Electrical Engineer
 Approved *...*
 Engineer of Construction

Plan Approved
 CITY OF CLEVELAND

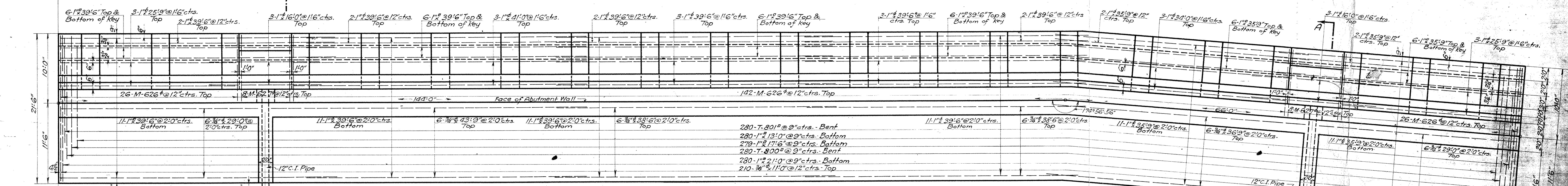
By ROBERT HOFFMANN
 Commissioner of Engineering & Construction
 Date 4-13-28
 For Original of this Signature
 See Blue Print Filed under No. 113-065-5.

THE CLEVELAND UNION TERMINALS CO.
 CENTRAL AVE. BRIDGE
 PLAN AND DETAILS
 NORTH ABUTMENT
 CLEVELAND, OHIO.
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: As shown. DATE: June 20, 1927.
 ISSUE No. 4. REVISED 7-1-28.

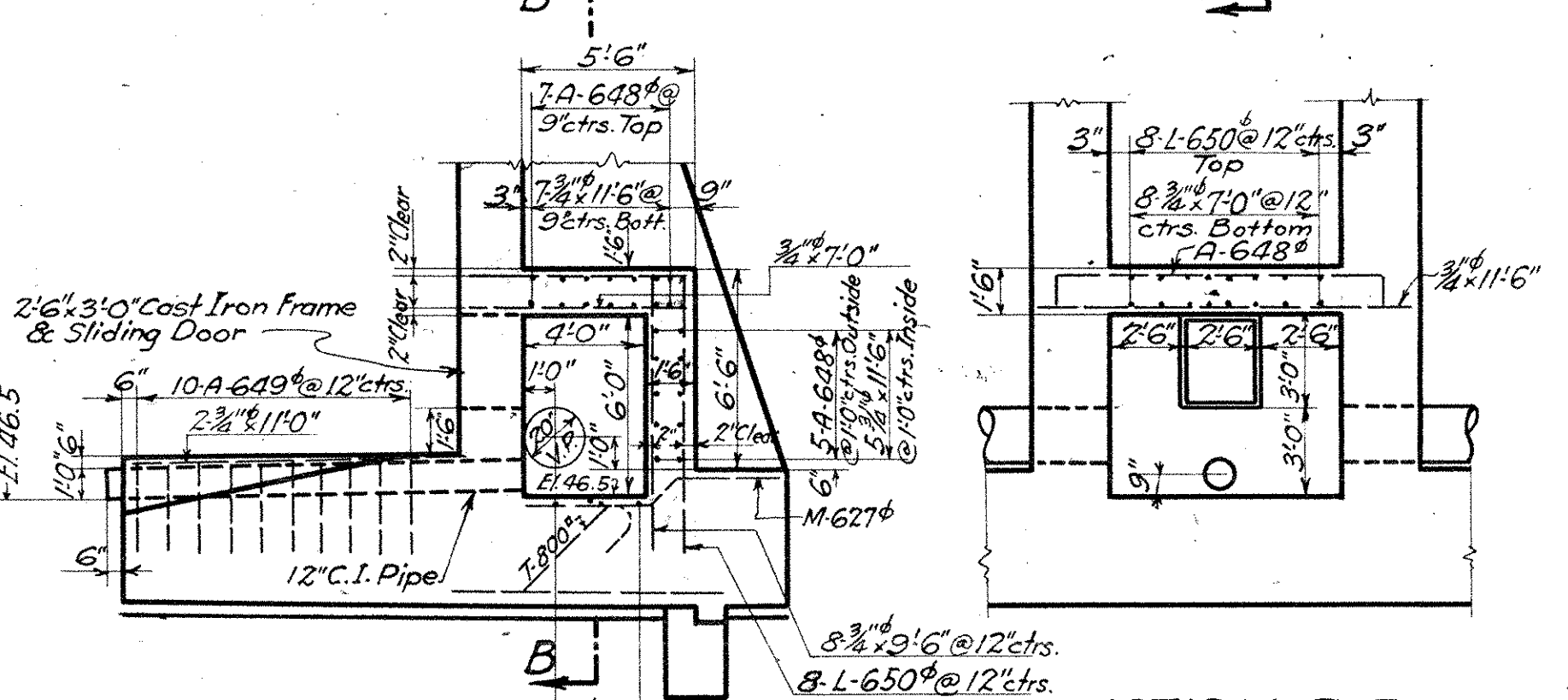
Issue No A June 20, 1927.
REVISIONS:
 Issue No B Nov. 10, 1927.
 Checked and Drawing Traced.
 Issue No 1 Nov. 30, 1927.
 Signed By Chief Engineer.
 Issue No 2 Jan. 24, 1928.
 Approved By Heads of Departments.
 Issue No 3 April 24, 1928.
 Approved by the City.
 Issue No 4 Sept. 1, 1933.
 Plan Corrected to Conform to Structure as Built.



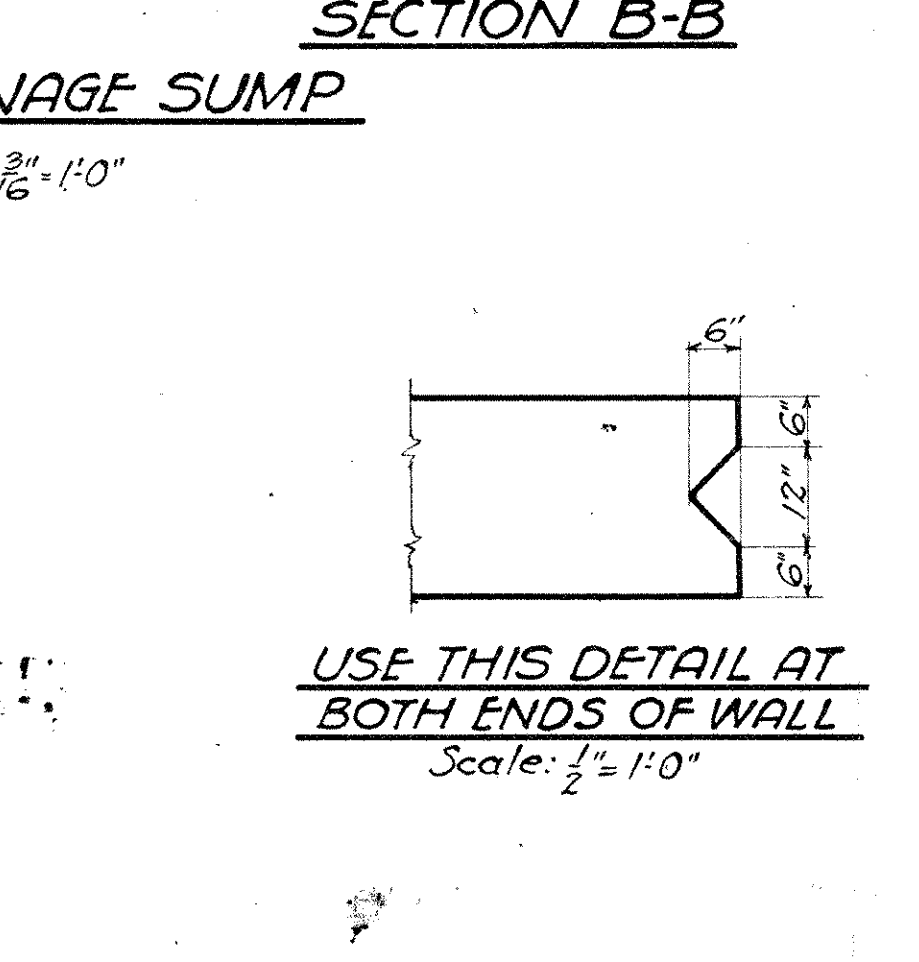
ELEVATION
 Scale: $\frac{1}{8}'' = 1'-0''$
 Showing Wall Reinforcement & Dowels



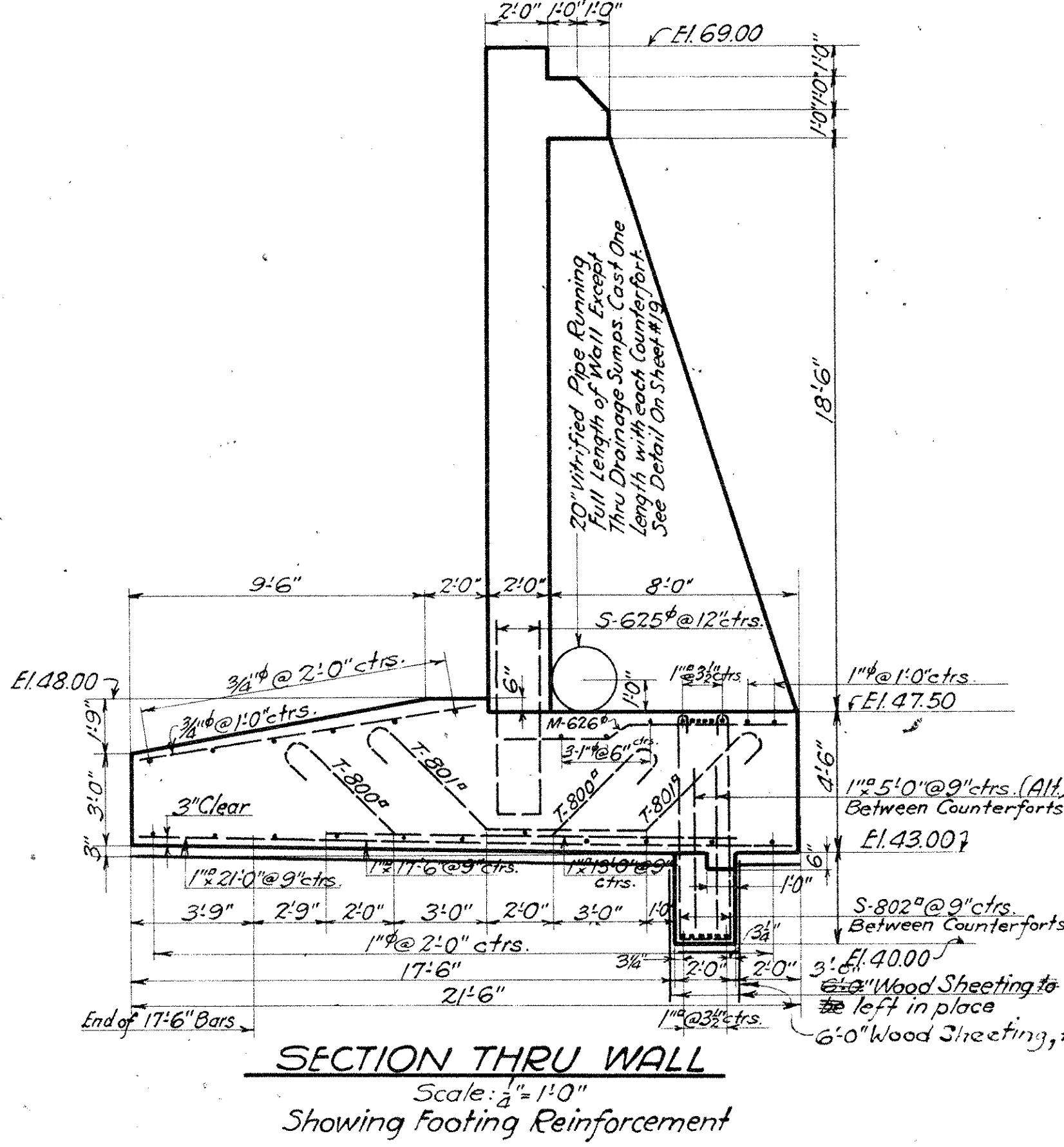
PLAN
 Scale: $\frac{3}{16}'' = 1'-0''$
 Showing Footing Reinforcement



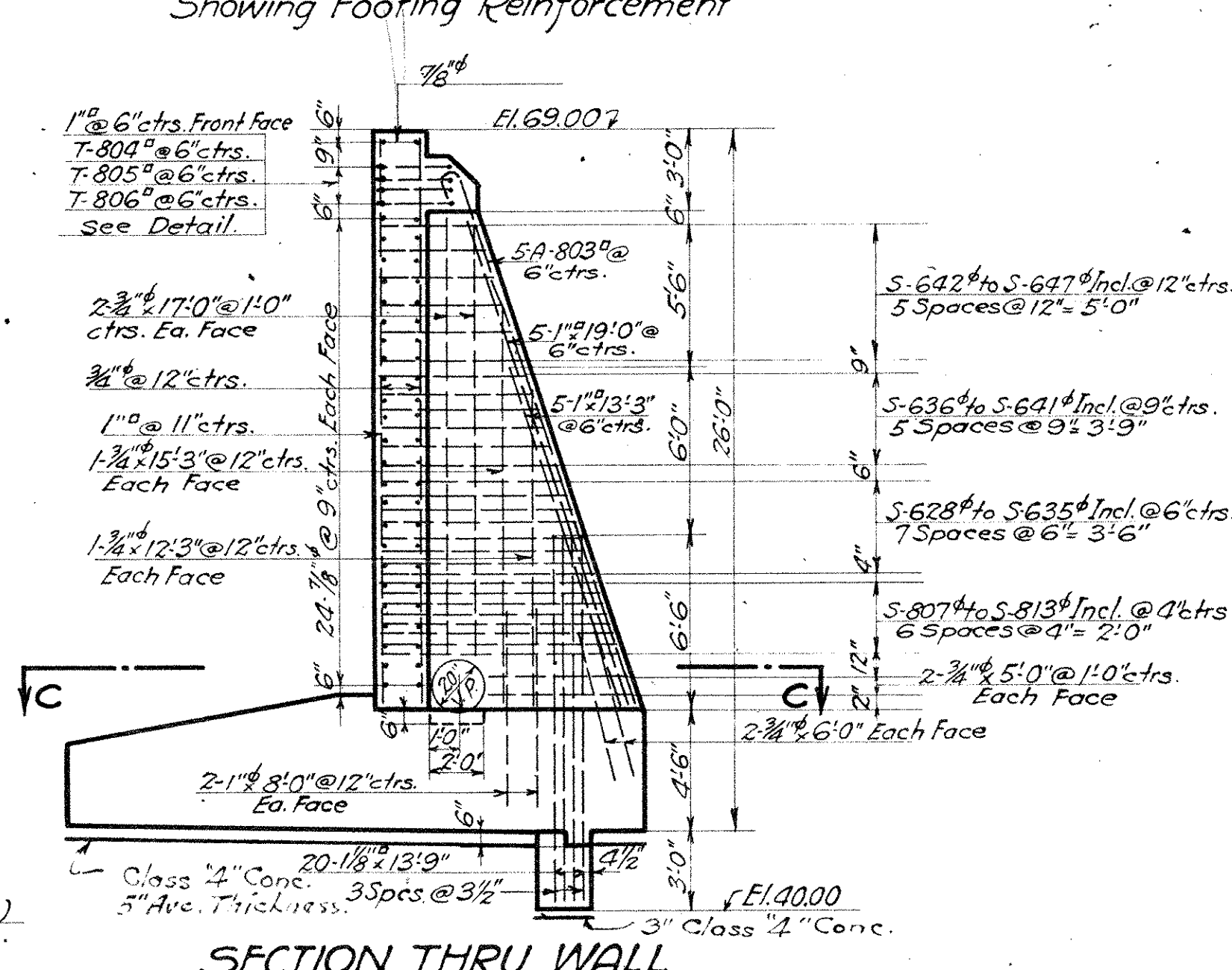
SECTION A-A SHOWING DRAINAGE SUMP
 Scale: $\frac{3}{16}'' = 1'-0''$



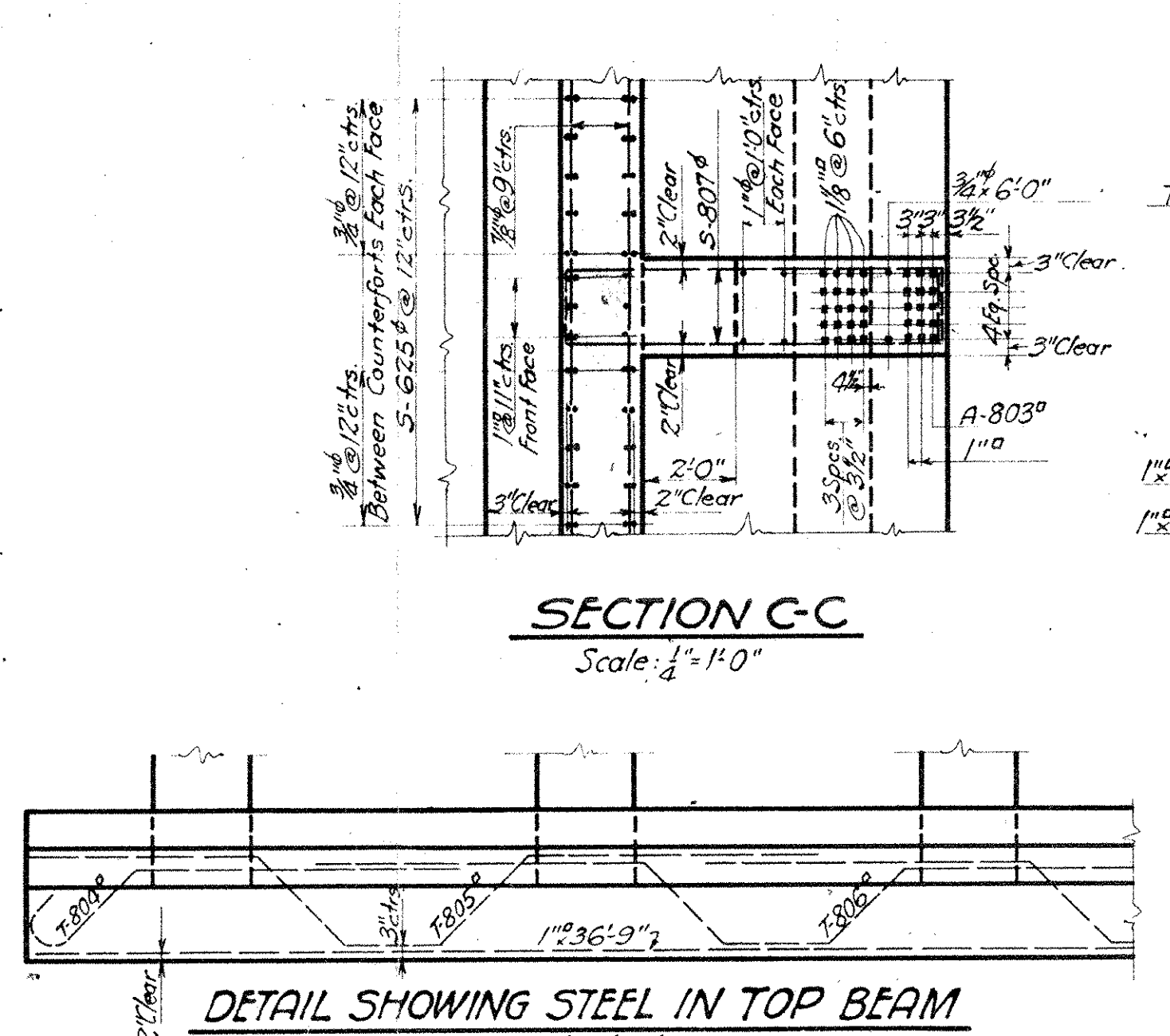
USE THIS DETAIL AT BOTH ENDS OF WALL
 Scale: $\frac{1}{2}'' = 1'-0''$



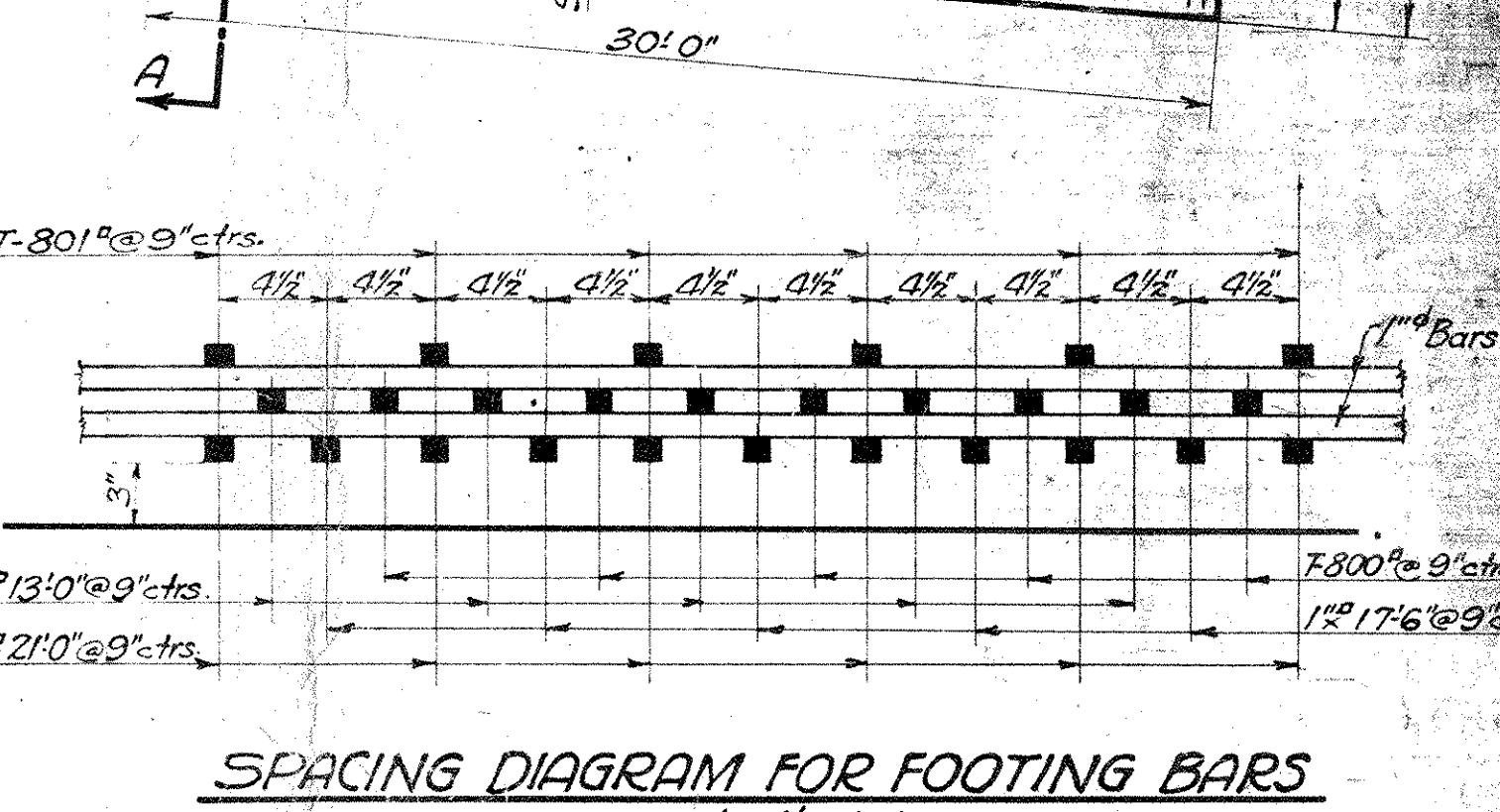
SECTION THRU WALL
 Scale: $\frac{3}{8}'' = 1'-0''$
 Showing Wall & Counterfort Reinforcement



SECTION THRU WALL
 Scale: $\frac{3}{8}'' = 1'-0''$
 Showing Wall & Counterfort Reinforcement



DETAIL SHOWING STEEL IN TOP BEAM
 Scale: $\frac{1}{2}'' = 1'-0''$



SPACING DIAGRAM FOR FOOTING BARS
 Scale: $1\frac{1}{2}'' = 1'-0''$

WE HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT.
 E. J. ...
 ENGINEER OF STRUCTURES
 ASST. ENGINEER OF CONSTRUCTION

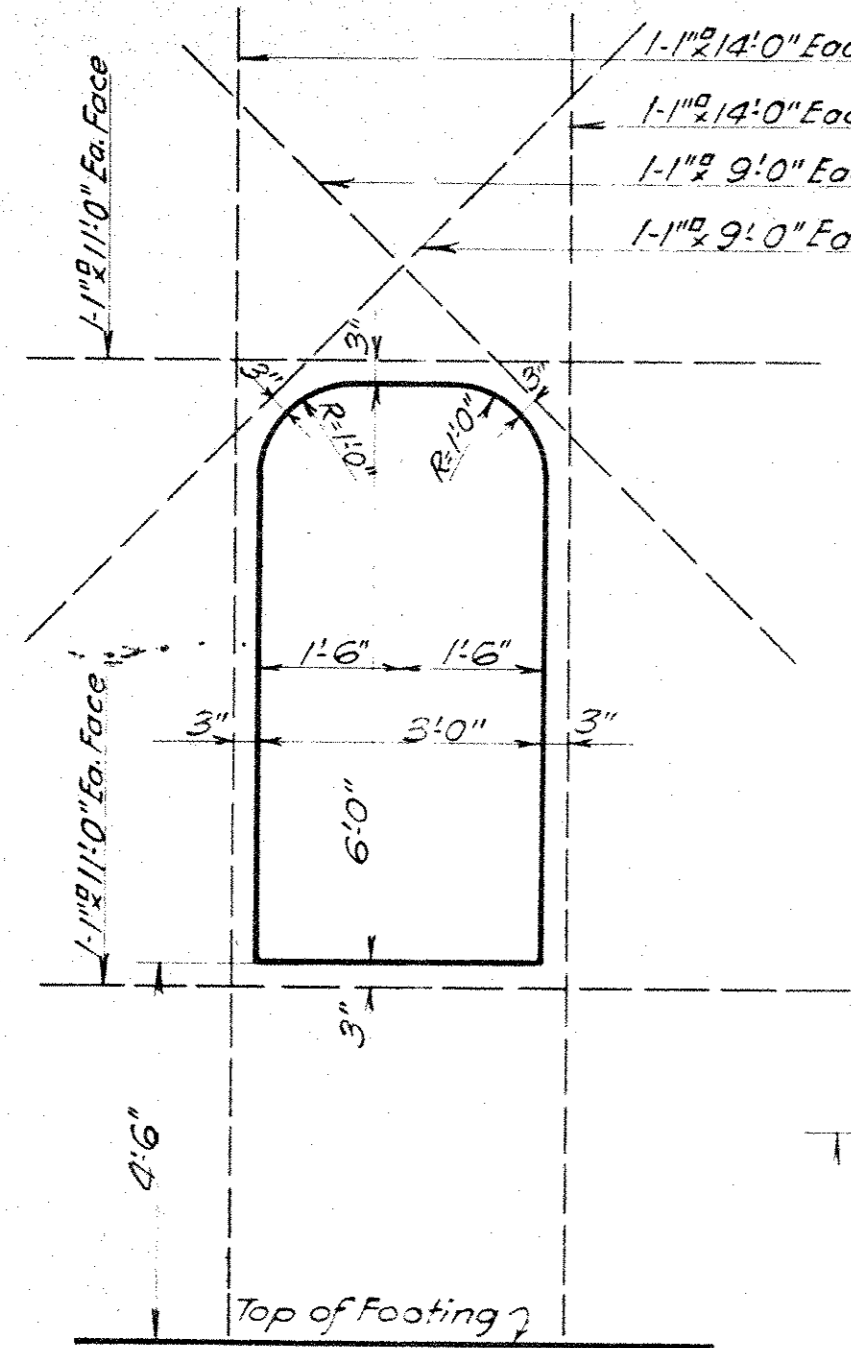
Designed By G.T.C. June 20, 1927.
 Detailed By L.C.B. June 20, 1927.
 Traced By S.H. Nov. 10, 1927.
 Checked By J.H.C. Nov. 3, 1927.
 Correct Nov. 30, 1927.
 J. X. ...
 Designing Engineer

Approved ...
 Engineer of Structures
 Approved ...
 Principal Assistant Engineer
 Approved ...
 Assistant Electrical Engineer
 Approved ...
 Engineer of Construction

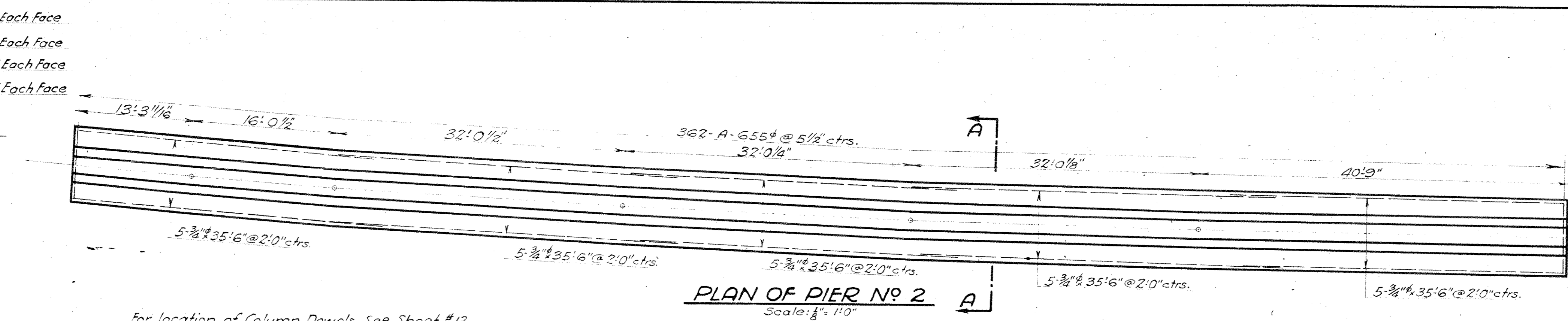
Plan Approved
 CITY OF CLEVELAND
 By ROBERT HOFFMANN
 Commissioner of Engineering & Construction
 Date 4-13-28
 For Original of this Signature
 See Blue Print Filed under No. 113-0655

THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE. BRIDGE
 PLAN AND DETAILS
 SOUTH ABUTMENT
 CLEVELAND, OHIO
 OFFICE OF ENGINEERS OF STRUCTURES
 SCALE: AS SHOWN DATE: 6-20-1927
 ISSUE NO. 4 REVISED 7-1-33
 E. J. ...
 CHIEF ENGINEER

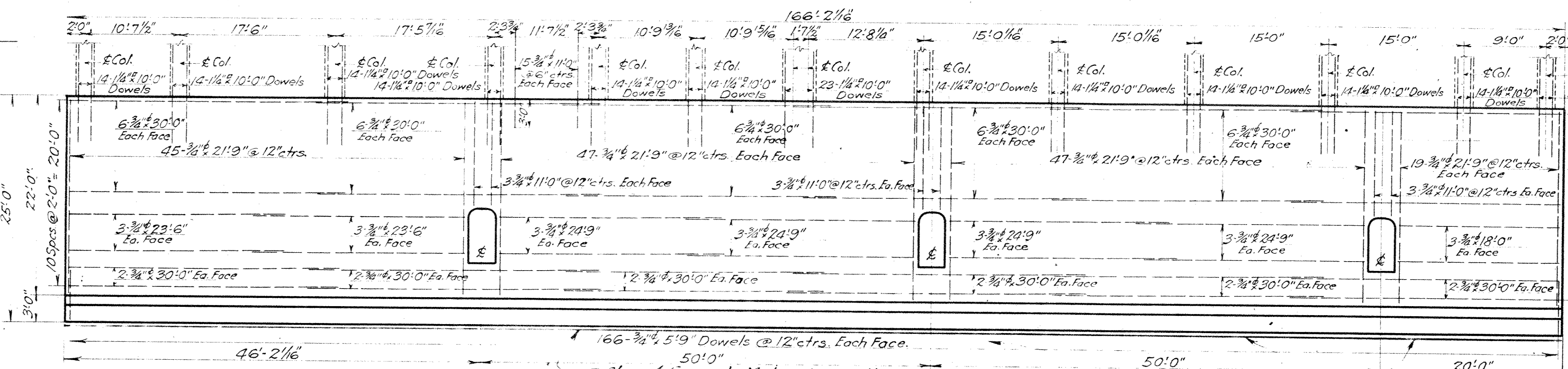
Issue No A Oct. 12, 1927.
 REVISIONS:
 Issue No B Nov. 3, 1927. Drawing Checked & Traced.
 Issue No 1 Nov. 30, 1927. Signed By Chief Engineer.
 Issue No 2 Jan. 24, 1928. Approved By Heads of Departments.
 Issue No 3 April 24, 1928. Approved by the City.
 Issue No 4 Sept. 1, 1933. Plan Corrected to Conform to Structure as Built.



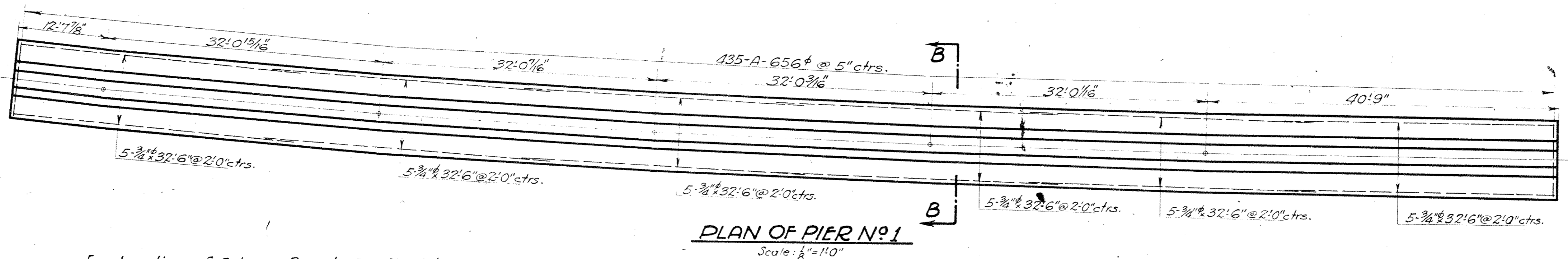
DETAIL OF REFUGE OPENING
 Scale: 1/4" = 1'-0"



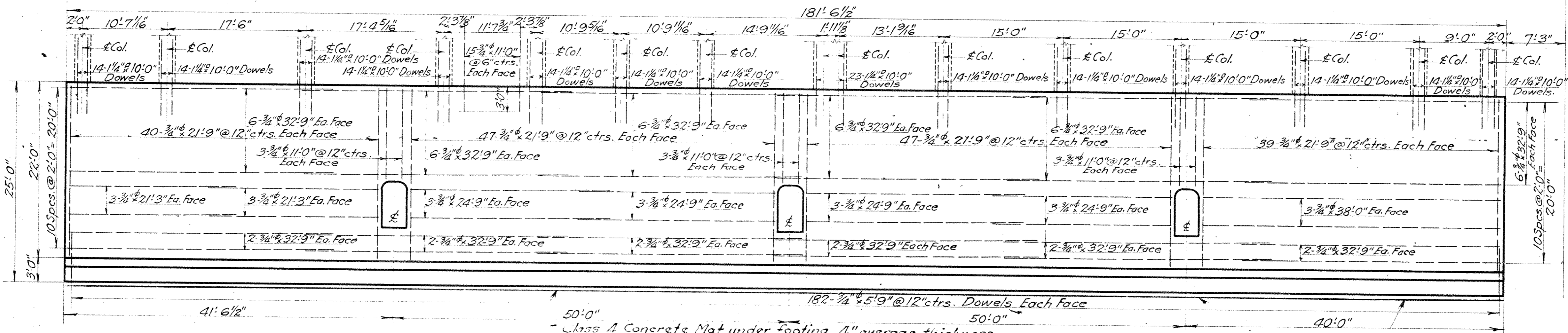
For location of Column Dowels See Sheet #13



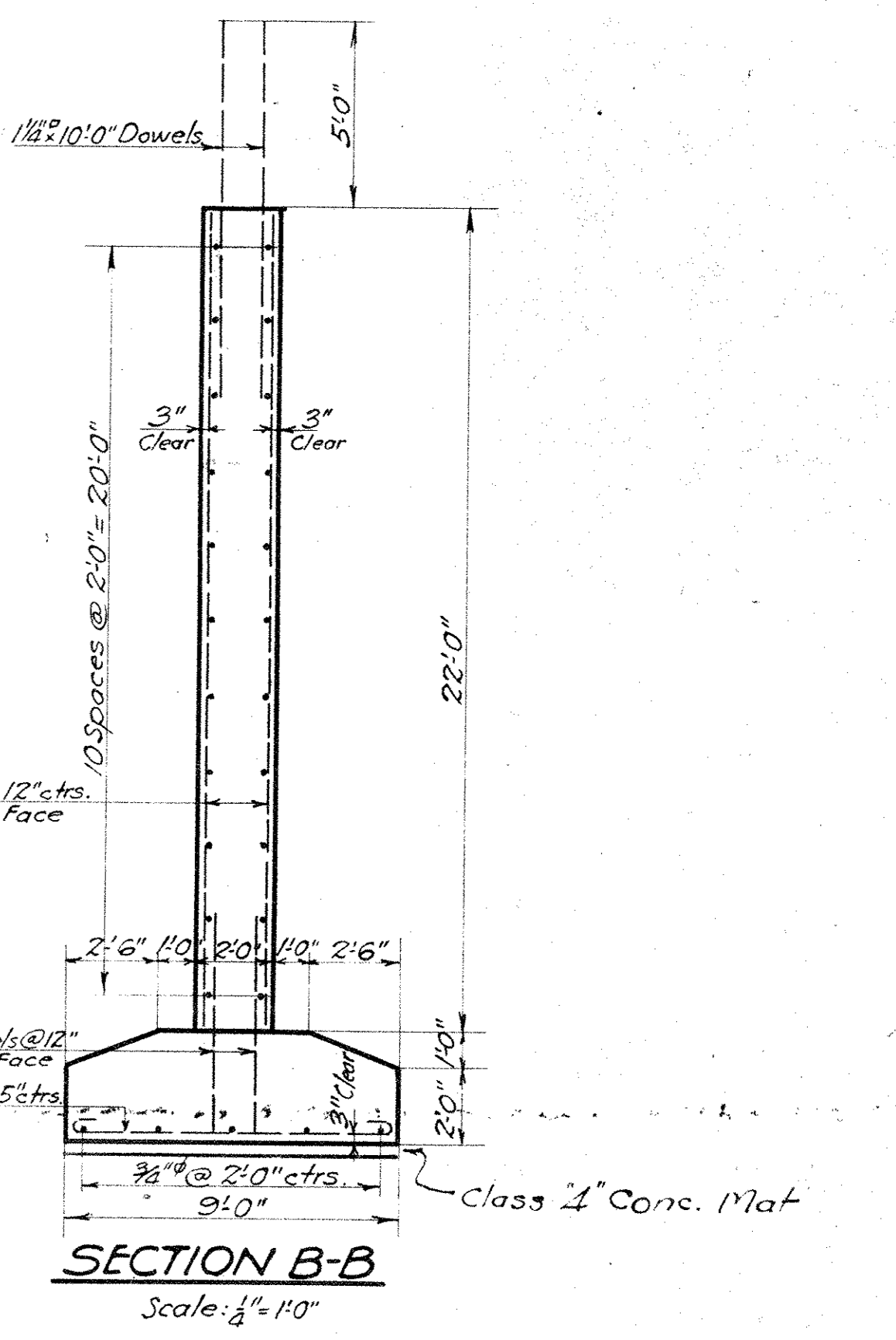
ELEVATION OF PIER No 2
 Scale: 1/8" = 1'-0"



For location of Column Dowels See Sheet #13



ELEVATION OF PIER No 1
 Scale: 1/8" = 1'-0"



EAST LINE OF CENTRAL AVENUE

WE HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT.
 E. P. Marsh, ENGINEER OF STRUCTURES
 H. J. ... ASST. ENGINEER OF CONSTRUCTION

Approved *E. P. Marsh*, Engineer of Structures
 Approved *John ...*, Principal Assistant Engineer
 Approved *...*, Assistant Electrical Engineer
 Approved *...*, Engineer of Construction

Designed By G.I.C. 6-10-1927.
 Detailed By G.I.C. 10-12-1927.
 Traced By S.H. 11-3-1927.
 Checked By J.H.C. 11-29-1927.
 Correct Nov 30 1927.
 G. L. ... Designing Engineer

Plan Approved CITY OF CLEVELAND
 By ROBERT HOFFMANN, Commissioner of Engineering & Construction
 Date 4-13-28. For Original of this Signature

THE CLEVELAND UNION TERMINALS CO.
 CENTRAL AVE. BRIDGE
 PLAN AND DETAILS OF PIERS No 1 & 2
 CLEVELAND, OHIO
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: AS SHOWN
 ISSUE No. 4
 DATE Oct. 12, 1927
 REVISED 7-17-33
 FILE No 113-065

Issue No A Oct. 14, 1927.

REVISIONS:

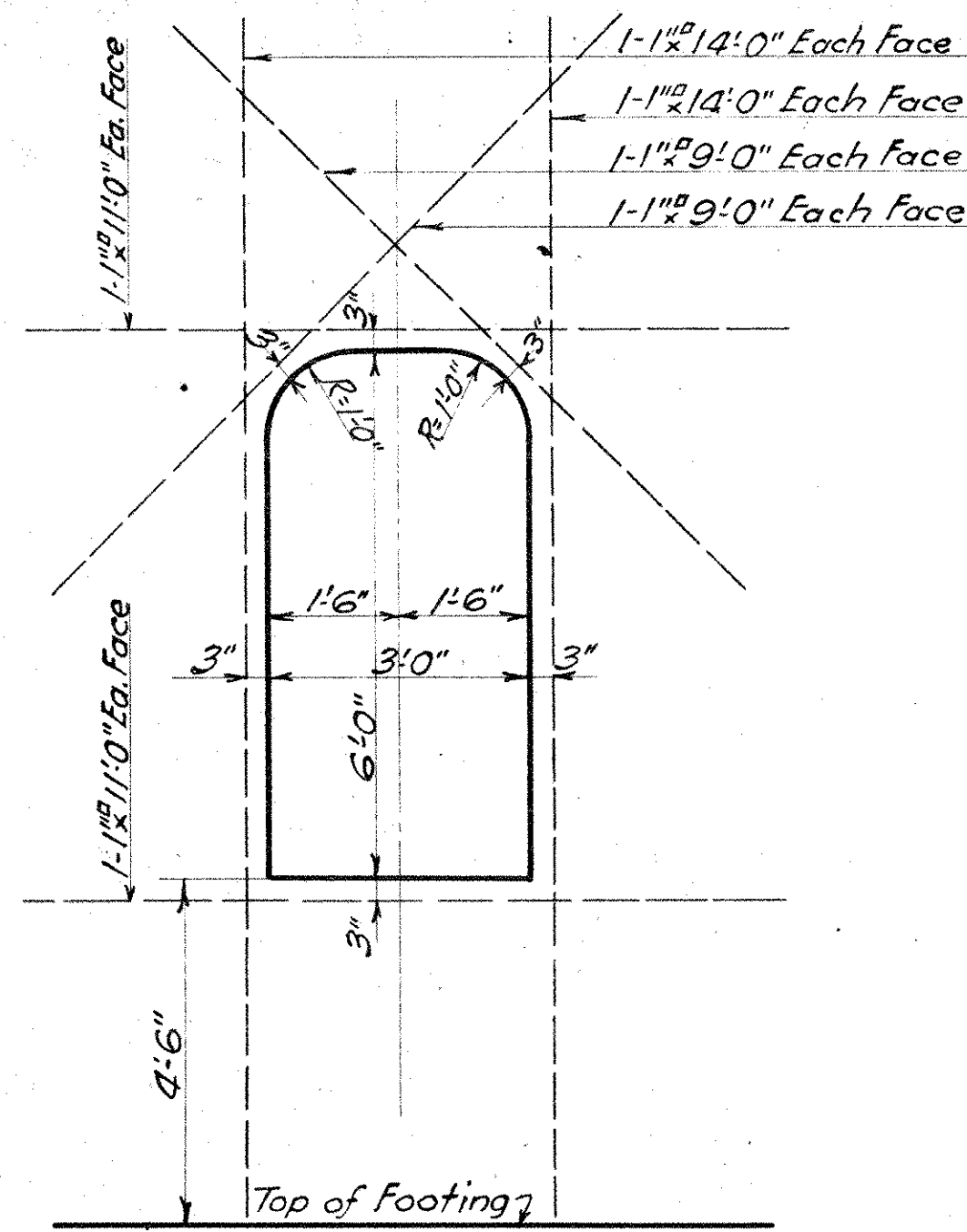
Issue No B Nov. 7, 1927.
Checked and Drawing Traced.

Issue No 1 Nov. 30, 1927.
Signed By Chief Engineer.

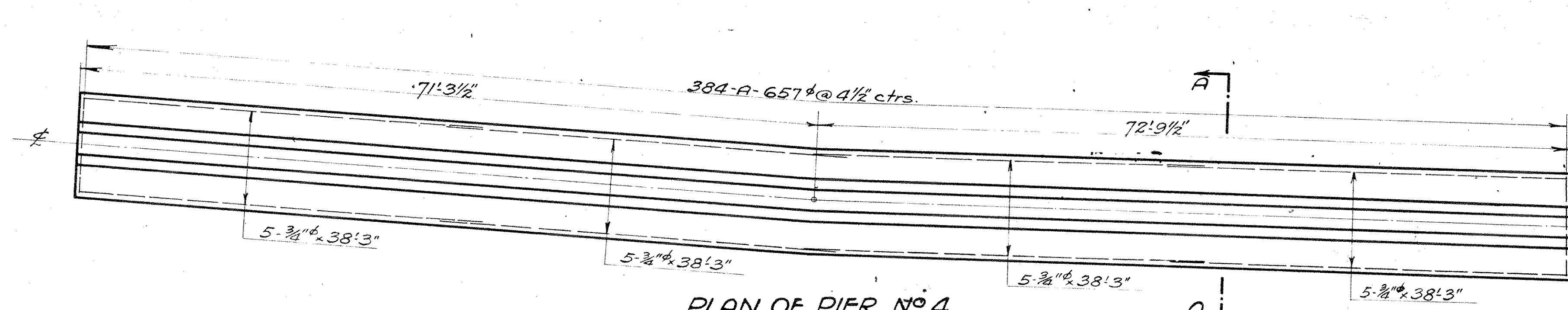
Issue No 2 Jan. 24, 1928.
Approved By Heads of Departments.

Issue No 3 April 24, 1928.
Approved by the City.

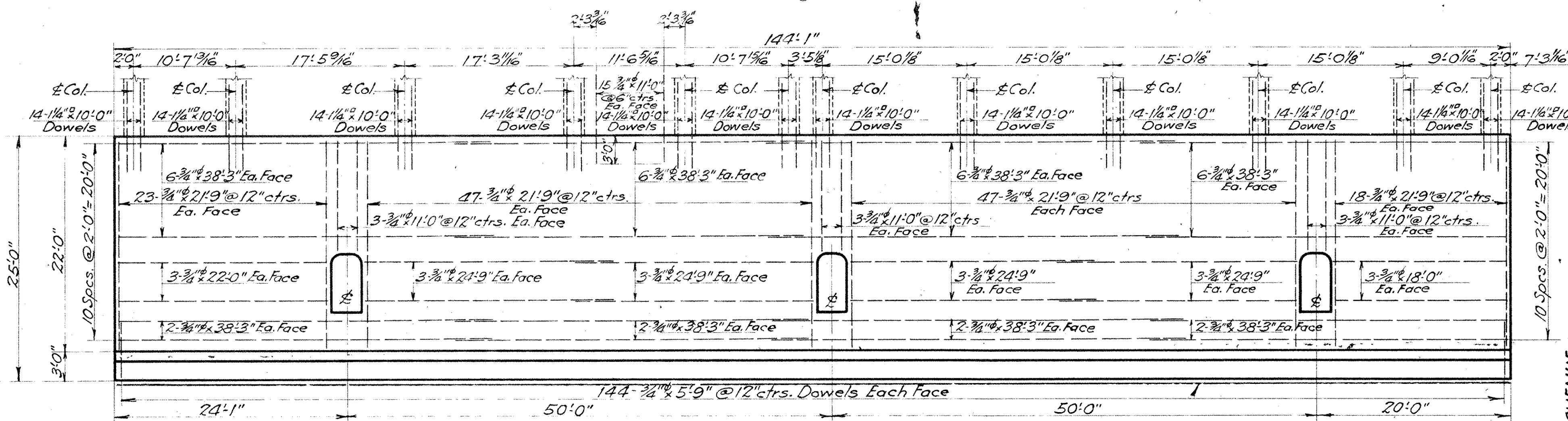
Issue No 4 Sep. 1, 1933.
Plan Corrected to Conform to
Structure as Built.



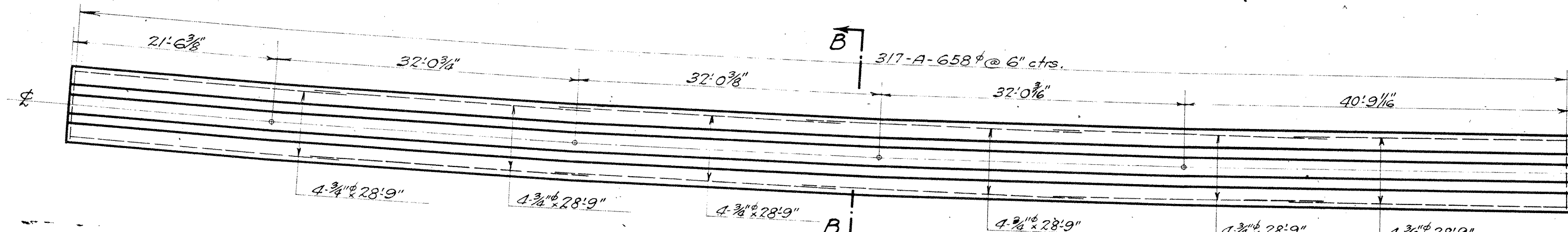
DETAIL OF REFUGE OPENING
Scale: 1/2" = 1'-0"



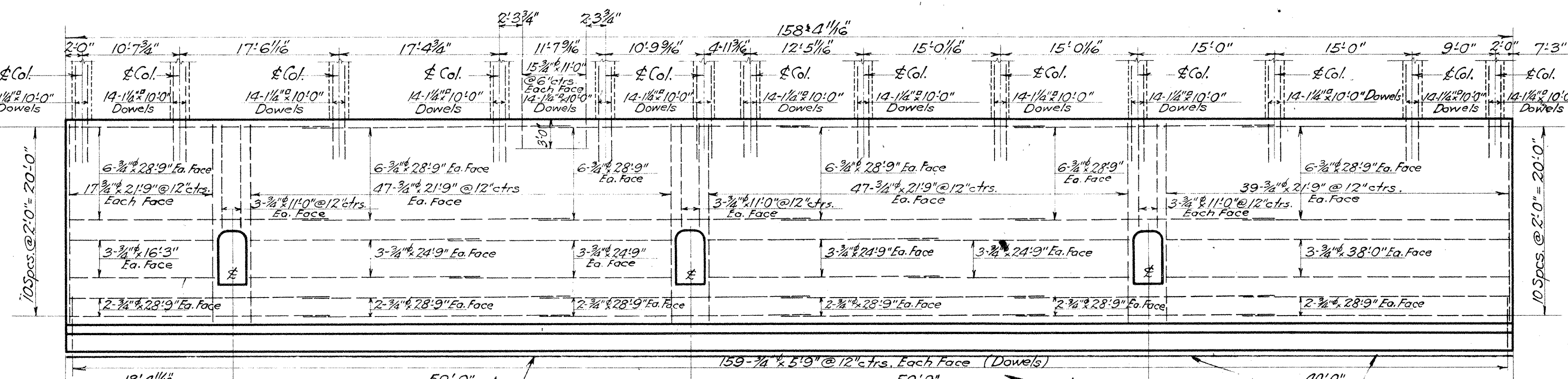
PLAN OF PIER No 4
Scale: 1/8" = 1'-0"



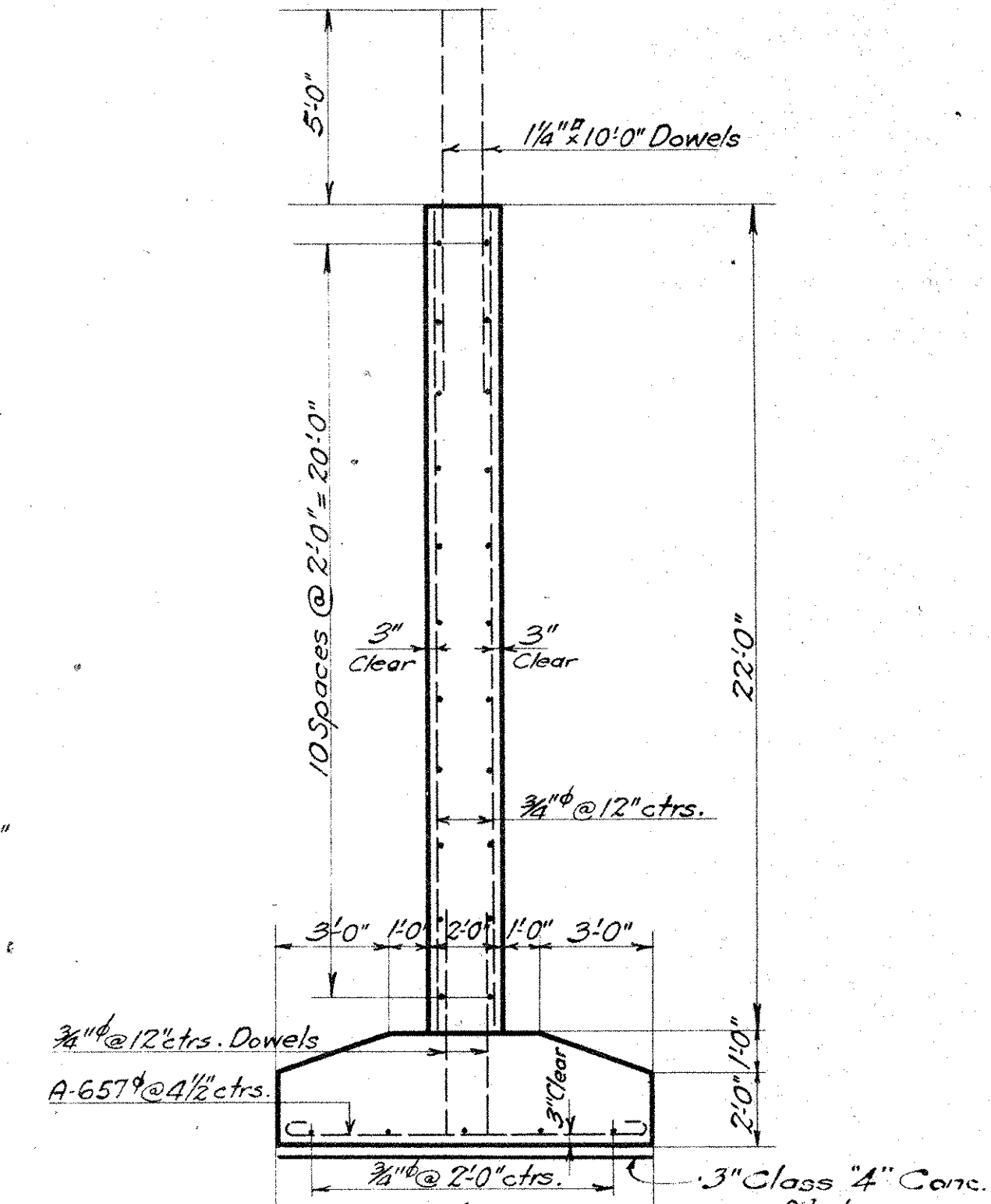
ELEVATION OF PIER No 4
Scale: 1/8" = 1'-0"



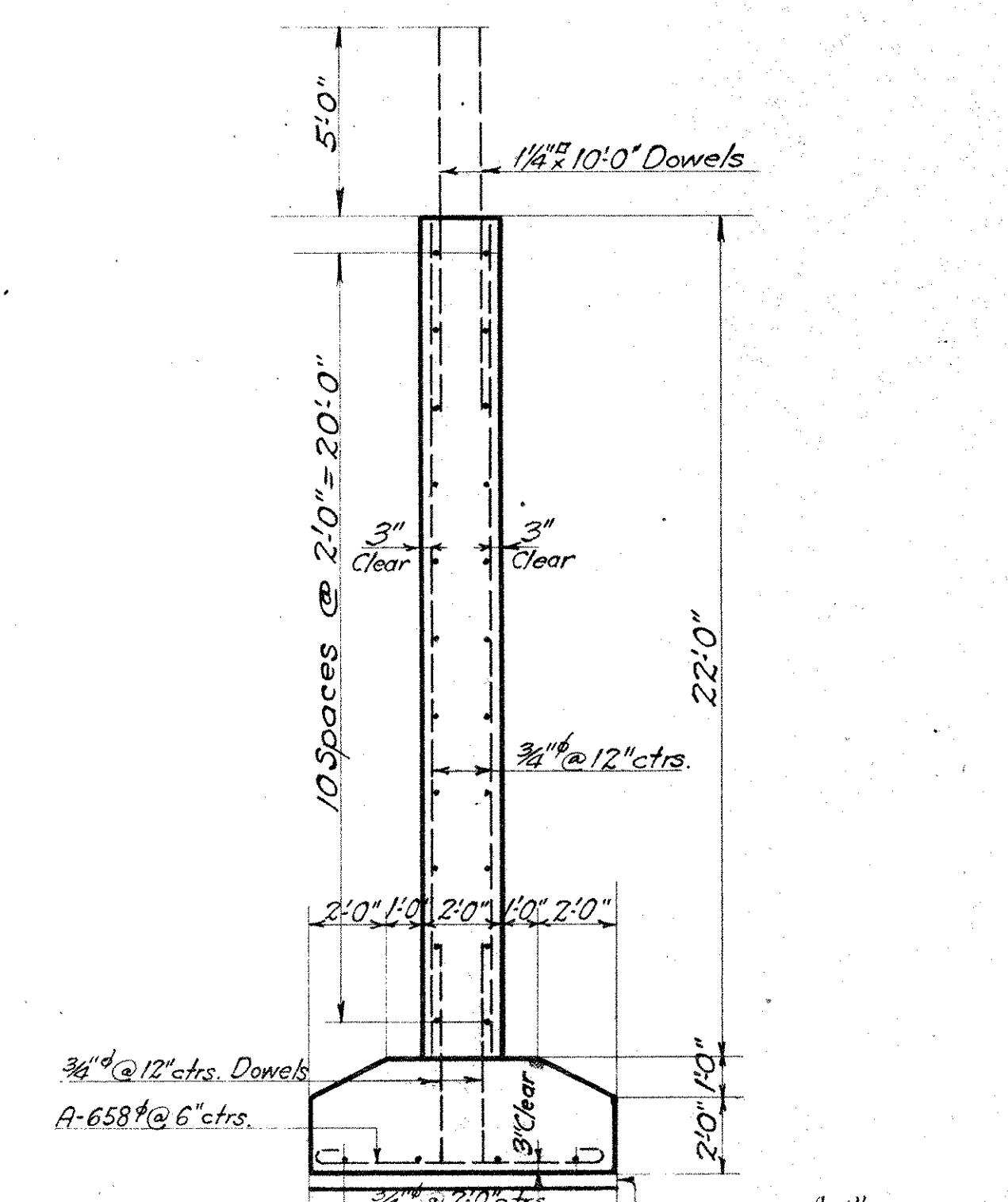
PLAN OF PIER No 3
Scale: 1/8" = 1'-0"



ELEVATION OF PIER No 3
Scale: 1/8" = 1'-0"



SECTION A-A
Scale: 1/4" = 1'-0"



SECTION B-B
Scale: 1/4" = 1'-0"

WE HEREBY CERTIFY THAT THIS PLAN
SHOWS THE STRUCTURE AS BUILT.

C. V. Marsh 6/14/34
ENGINEER OF STRUCTURES

H. P. ... 4/24/35
ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. 6-10-1927.
Detailed By G.T.C. 10-14-1927.
Traced By S.H. 11-7-1927.
Checked By J.H.C. 10-31-1927.
Correct No. 30, 1927.
A. L. ...
Designing Engineer

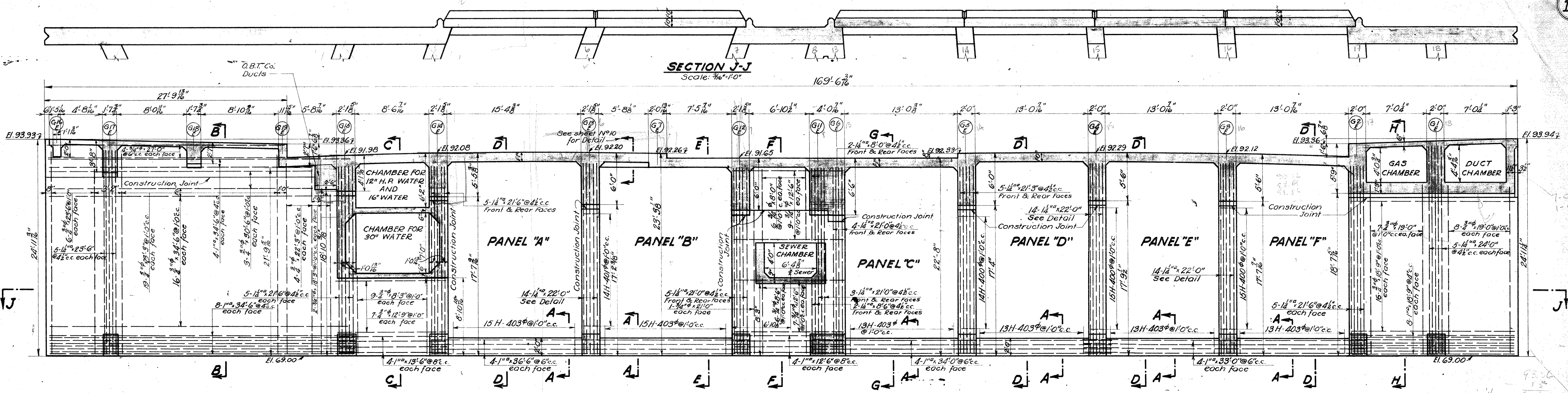
Approved *C. V. Marsh*
Engineer of Structures
Approved *J. W. ...*
Principal Assistant Engineer
Approved *W. ...*
Assistant Electrical Engineer
Approved *W. ...*
Engineer of Construction

Plan Approved
CITY OF CLEVELAND
By *ROBERT HOFFMANN*
Commissioner of Engineering & Construction
Date 4-13-28.
For Original of this Signature
See Blue Print Filed under No. 113-065-5.

THE CLEVELAND UNION TERMINALS CO.
CENTRAL AVE. BRIDGE
PLAN AND DETAILS OF
PIERS No 3 & 4
CLEVELAND, OHIO.
OFFICE OF ENGINEER OF STRUCTURES
SCALE: AS SHOWN
ISSUE No. 4
DATE 10-14-1927
REVISED 9-1-33.
J. D. ...
CHIEF ENGINEER 11/24/28

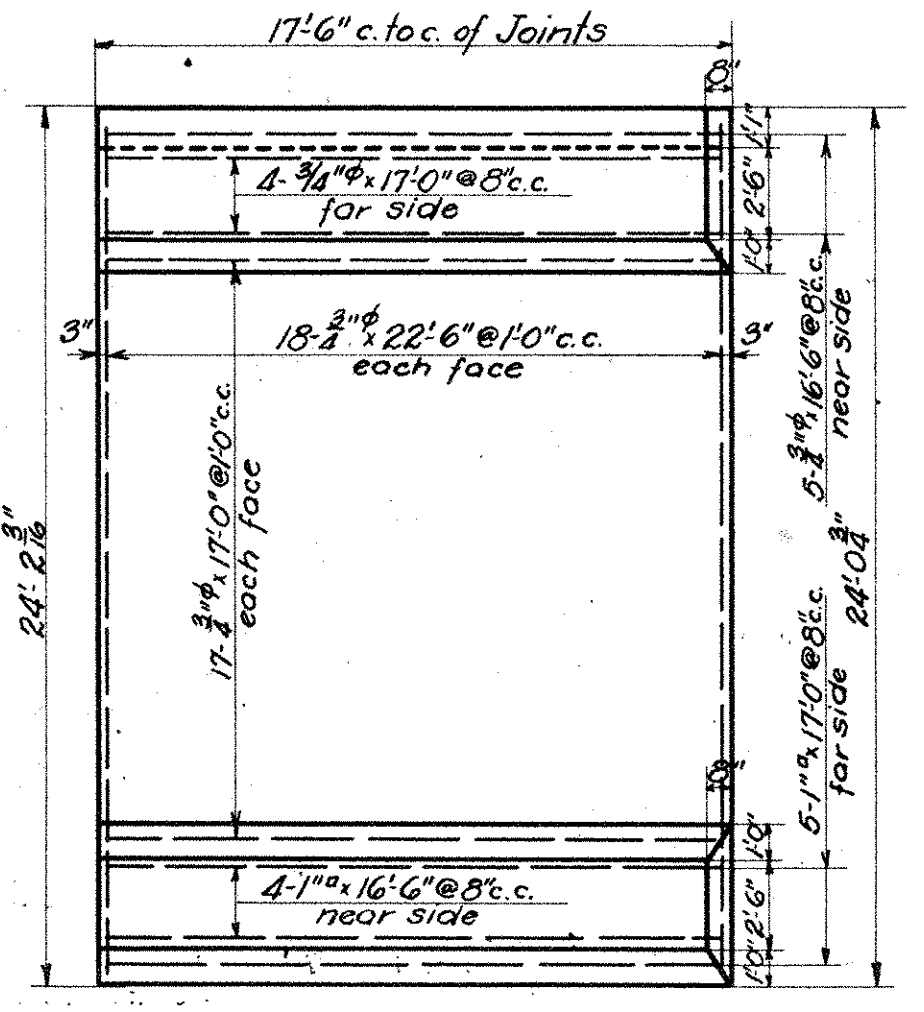
Issue No A Nov. 1, 1927.
 Revisions:-
 Issue No 1 Nov. 30, 1927.
 Approved by Chief Engineer.
 Issue No 2 Dec. 28, 1927.
 Drawing traced and checked.
 Issue No 3 Dec. 29, 1927.
 Signed by the Chief Engineer.
 Issue No 4 Jan. 24, 1928.
 Approved By Heads of Departments.
 Issue No 5 Feb. 13, 1928.
 Moved all Water Lines to West side of Bridge.
 Issue No 6 April 24, 1928.
 Revised details of water lines.
 Approved by the City.

Issue No 7 Sept. 1, 1933.
 Plan Conforms to Structure as Built.

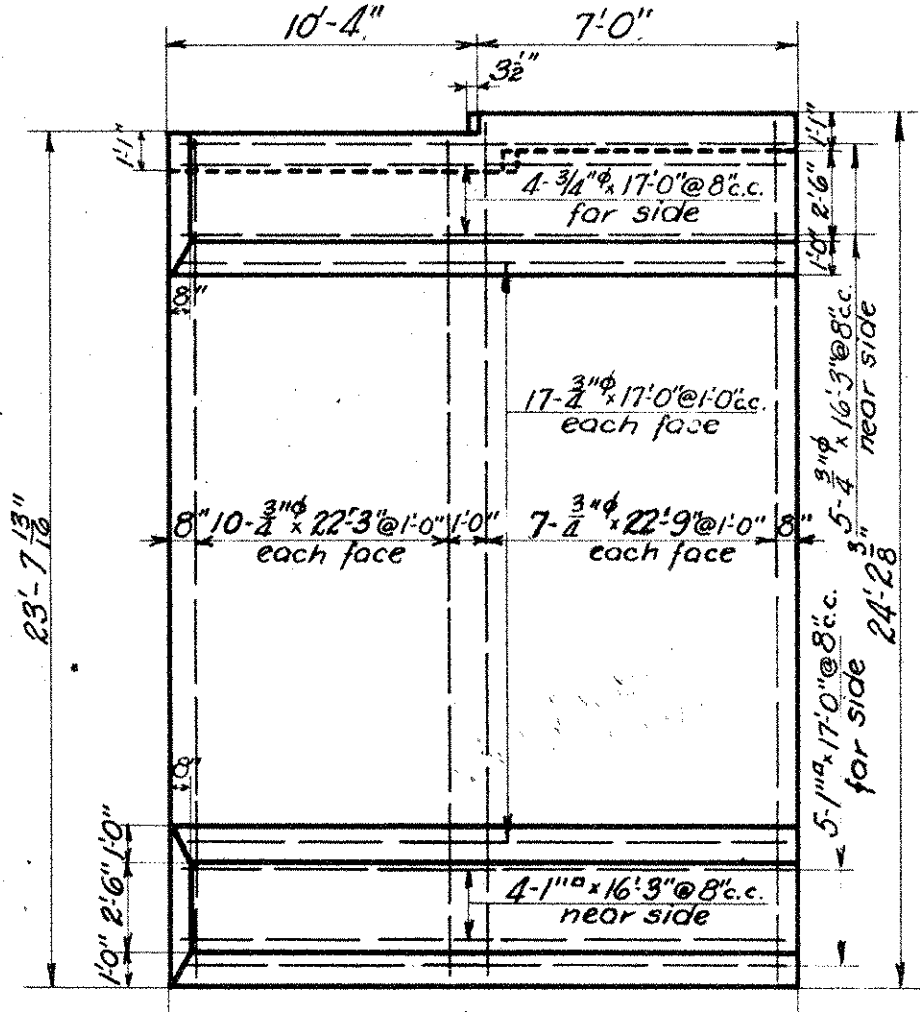


ELEVATION OF NORTH CURTAIN WALL LOOKING NORTH
 Scale: 1/8"=1'-0"

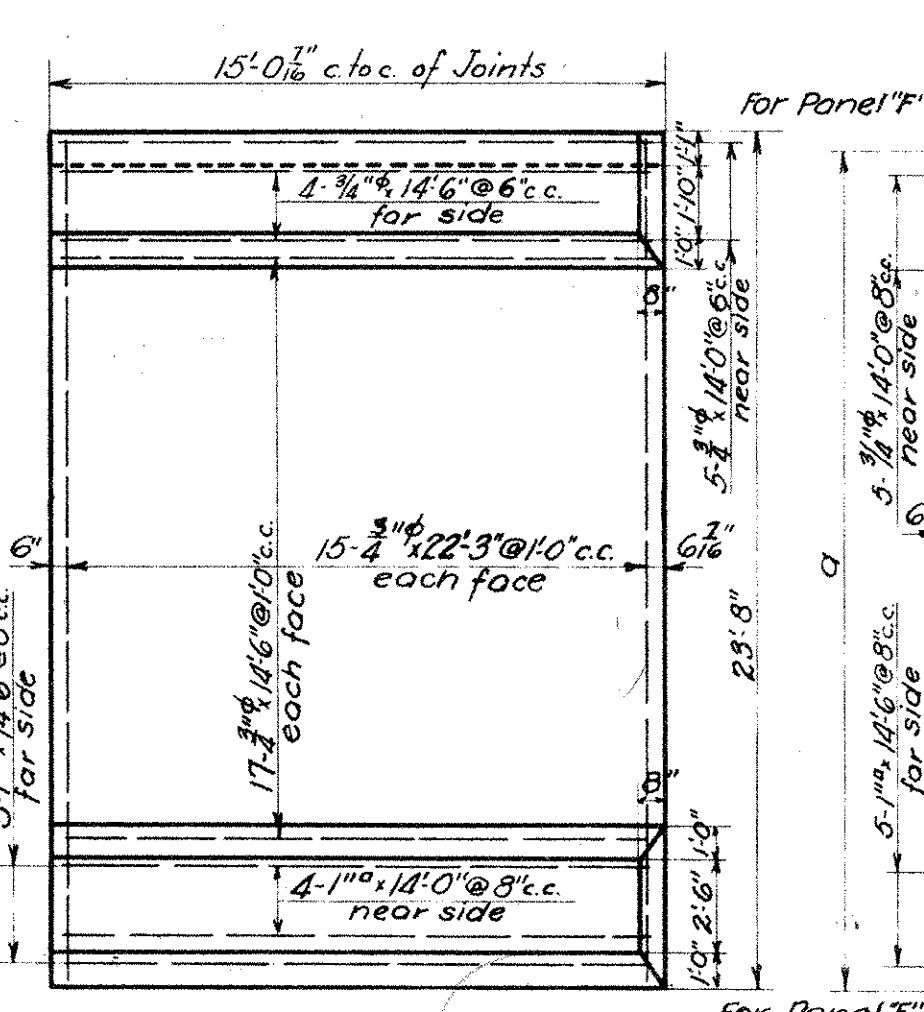
NOTE:-
 ALL DIMENSIONS TO BE MEASURED ALONG FACE OF WALL



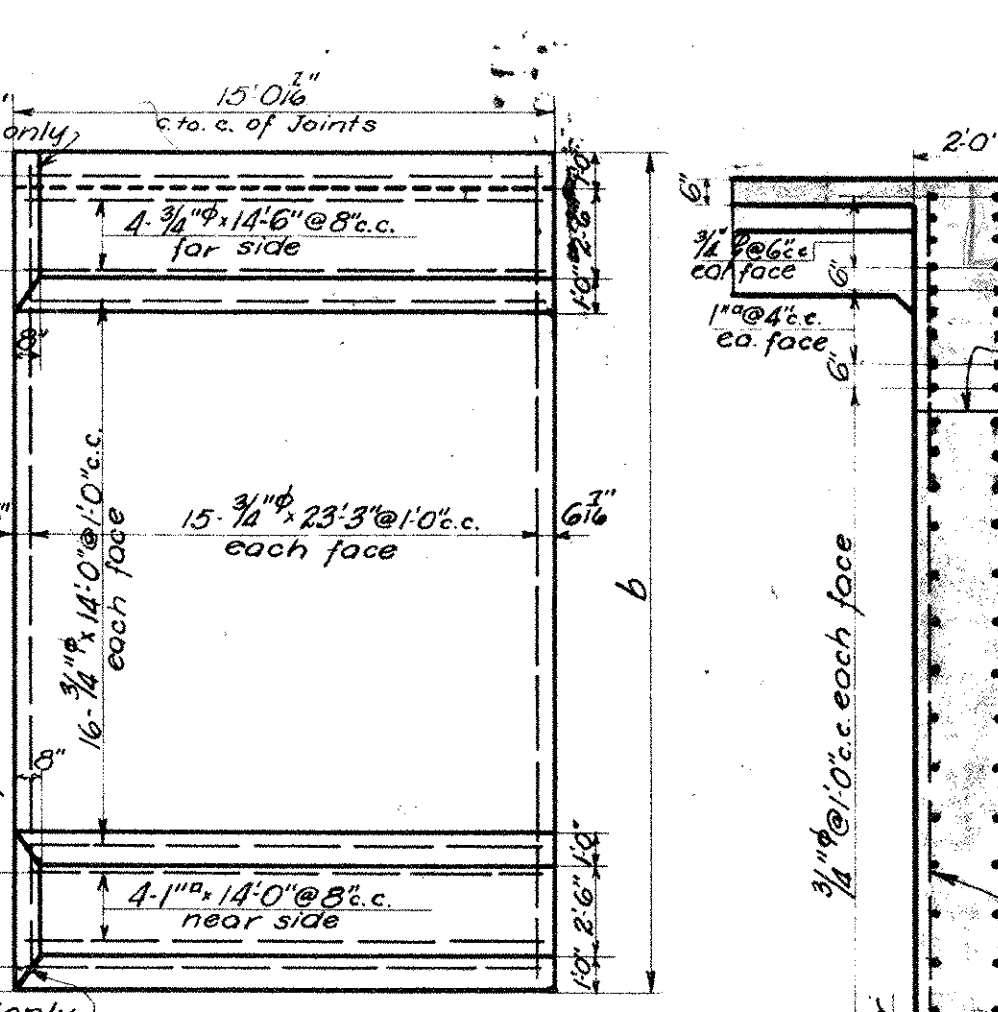
SLAB FOR PANEL "A"
 Scale: 1/8"=1'-0"



SLAB FOR PANEL "B"
 Scale: 1/8"=1'-0"

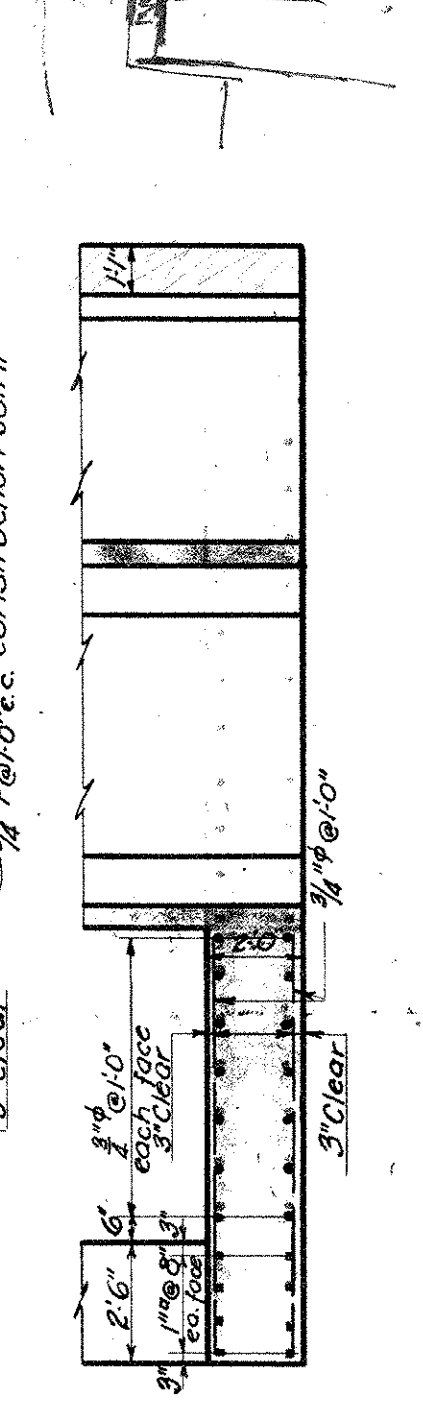


SLAB FOR PANEL "C"
 Scale: 1/8"=1'-0"

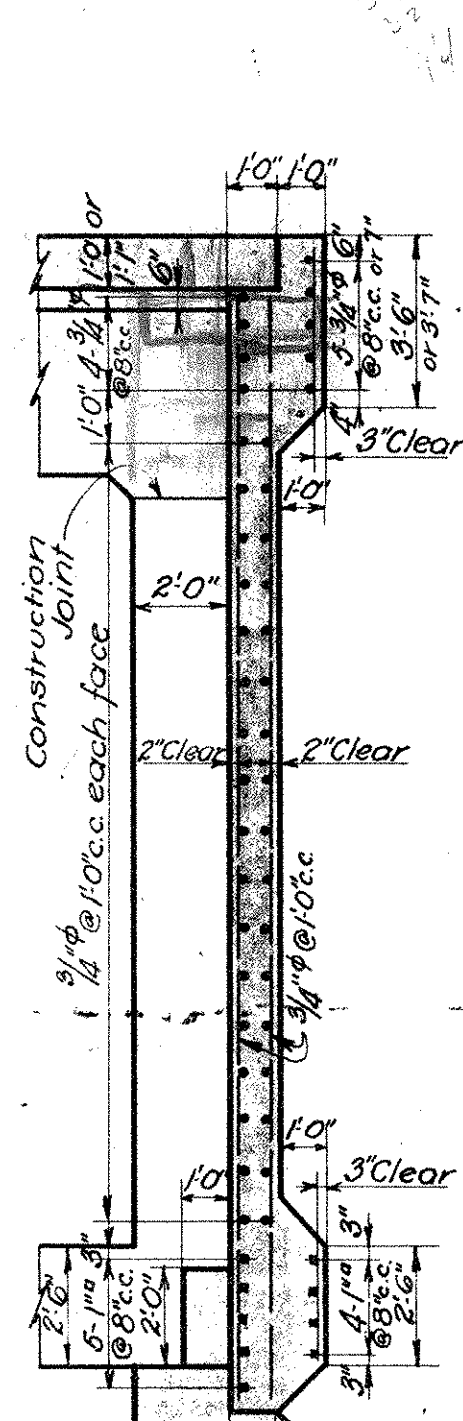


SLAB FOR PANELS "D", "E" & "F"
 Scale: 1/8"=1'-0"

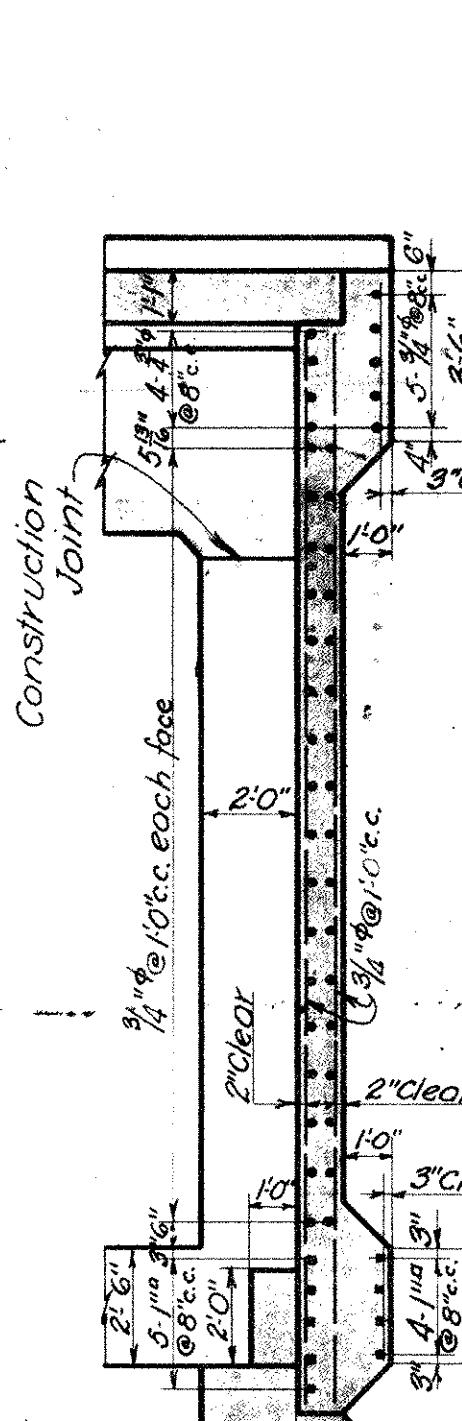
PANEL	a	b
D	24'-3 1/2"	24'-3 1/2"
E	23'-1 1/2"	24'-3 1/2"
F	23'-10 1/2"	24'-1 1/2"



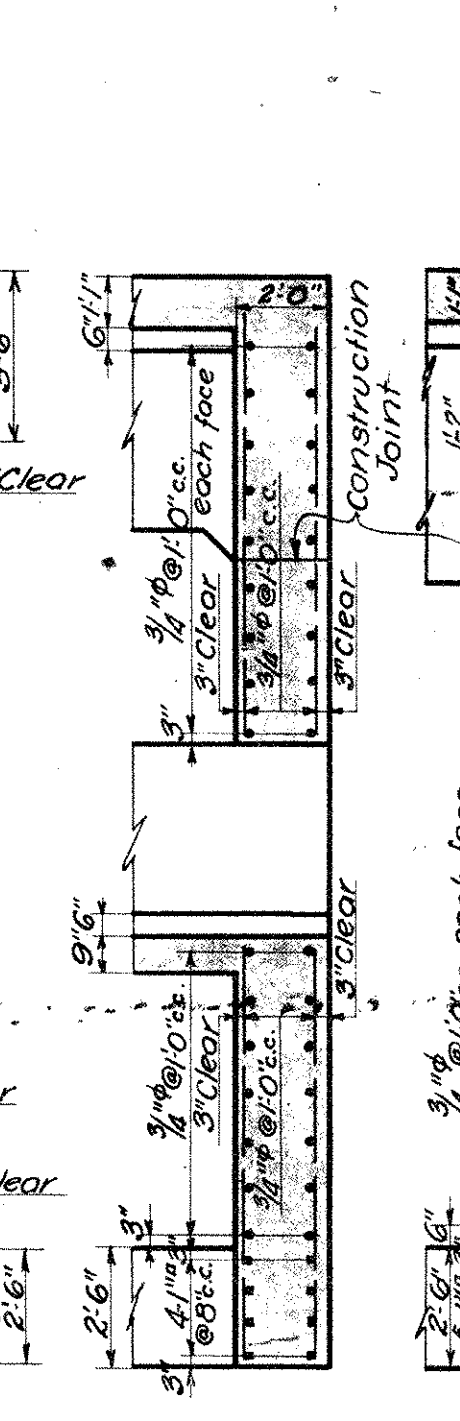
SECTION B-B
 Scale: 1/4"=1'-0"



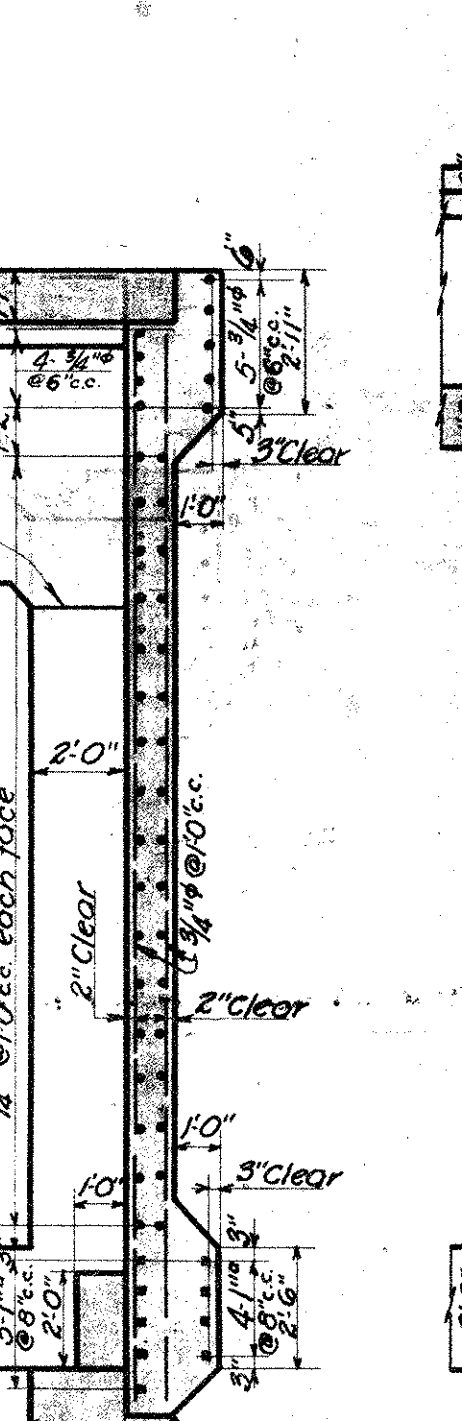
SECTION C-C
 Scale: 1/4"=1'-0"



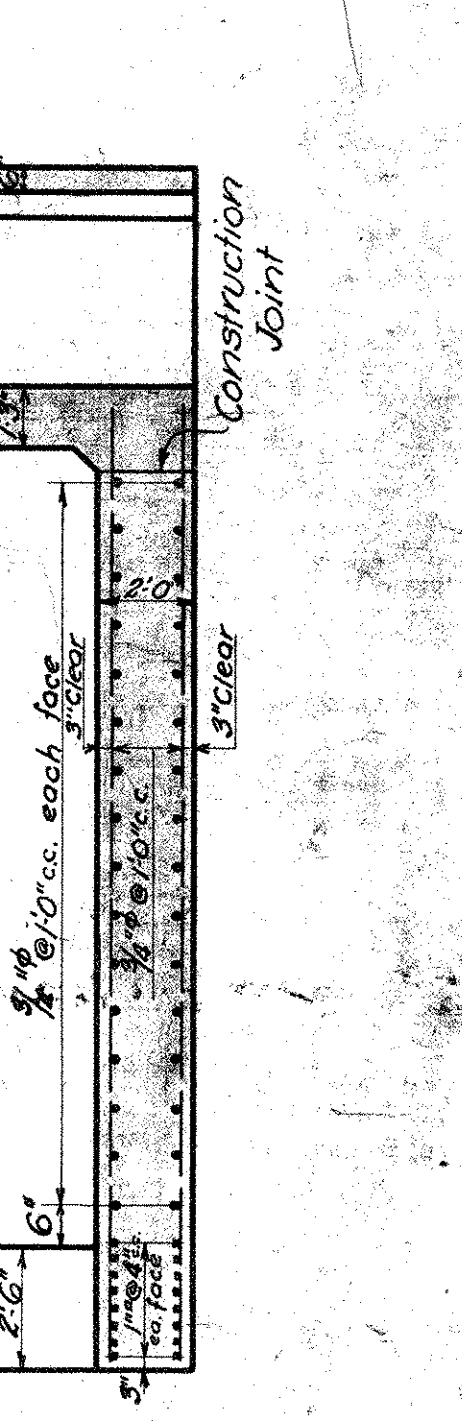
SECTION D-D
 Scale: 1/4"=1'-0"



SECTION E-E
 Scale: 1/4"=1'-0"

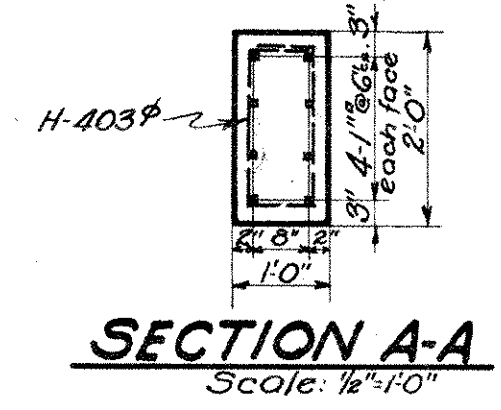


SECTION F-F
 Scale: 1/4"=1'-0"

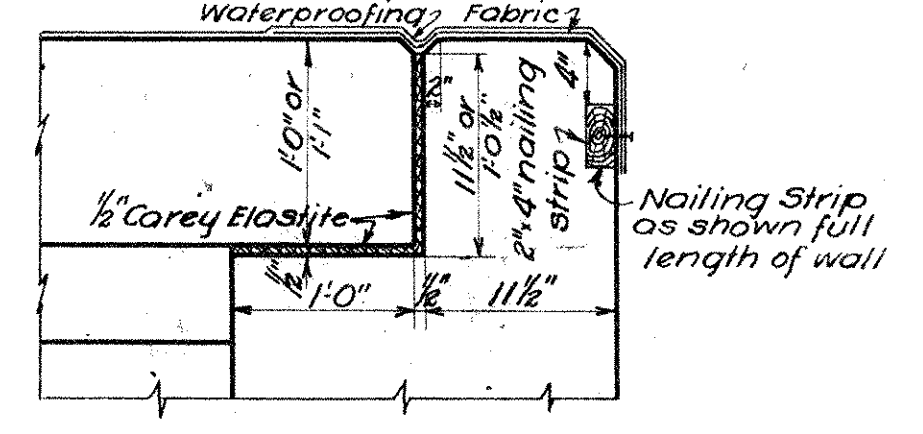


SECTION H-H
 Scale: 1/4"=1'-0"

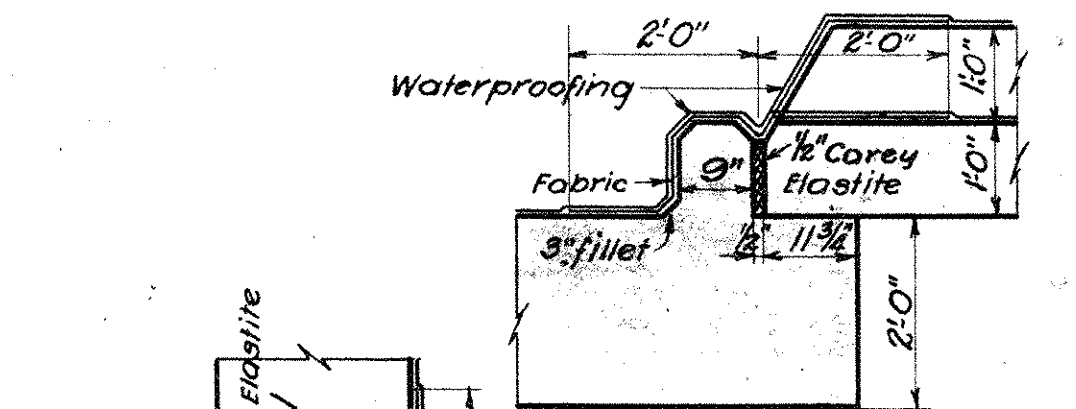
NOTE:
 For classes of Waterproofing see Specifications.



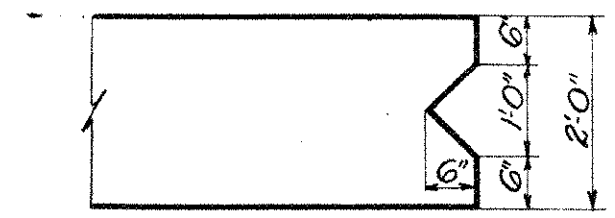
SECTION A-A
 Scale: 1/4"=1'-0"



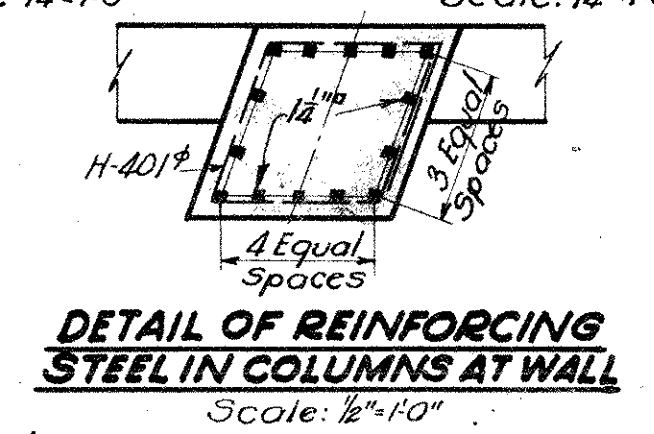
JOINT BETWEEN REMOVABLE SLABS AND DECK SLAB
 Scale: 1"=1'-0"



SECTIONS SHOWING WATERPROOFING AROUND REMOVABLE SLABS
 Scale: 1/4"=1'-0"



USE THIS DETAIL AT BOTH ENDS OF WALL
 Scale: 1/4"=1'-0"



DETAIL OF REINFORCING STEEL IN COLUMNS AT WALL
 Scale: 1/4"=1'-0"

Note:-
 The ends of all service tunnels shall be bricked up after the utilities are in place.

WE HEREBY CERTIFY THAT THIS PLAN SHOWS THE STRUCTURE AS BUILT.
 C. O. Mearns
 ENGINEER OF STRUCTURES
 ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. July 1, 1927.
 Detailed By H.B. Nov. 1, 1927.
 Traced By H.B. Dec. 28, 1927.
 Checked By J.H.C. Dec. 29, 1927.
 Correct Dec. 29, 1927.
 F. L. Gorman
 Designing Engineer

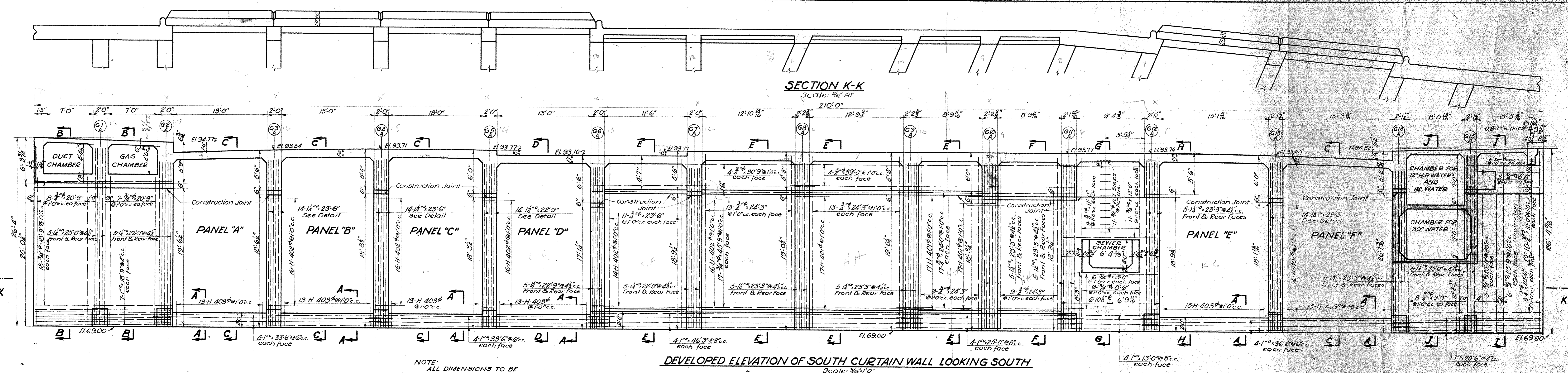
Approved C. O. Mearns
 Engineer of Structures
 Approved J. W. Sadler
 Principal Assistant Engineer
 Approved J. W. Sadler
 Assistant Electrical Engineer
 Approved J. W. Sadler
 Engineer of Construction

Plan Approved
CITY OF CLEVELAND

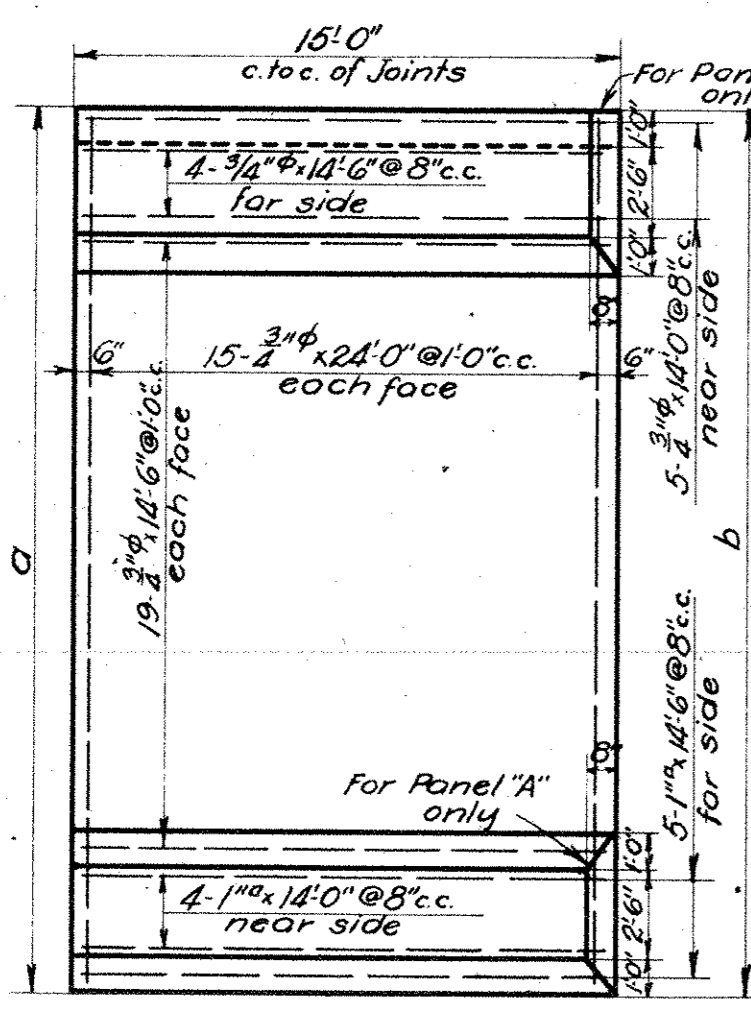
By **ROBERT HOFFMANN**
 Commissioner of Engineering & Construction
 Date 4-13-28

THE CLEVELAND UNION TERMINALS CO
CENTRAL AVE. BRIDGE
 ELEVATION AND DETAIL
 OF NORTH CURTAIN WALL
 CLEVELAND, OHIO.
 OFFICE OF ENGINEER OF STRUCTURES
 SCALE: As shown. DATE: Nov. 1, 1927.
 ISSUE No. 7. REVISED 7-1-32.
 Chief Engineer

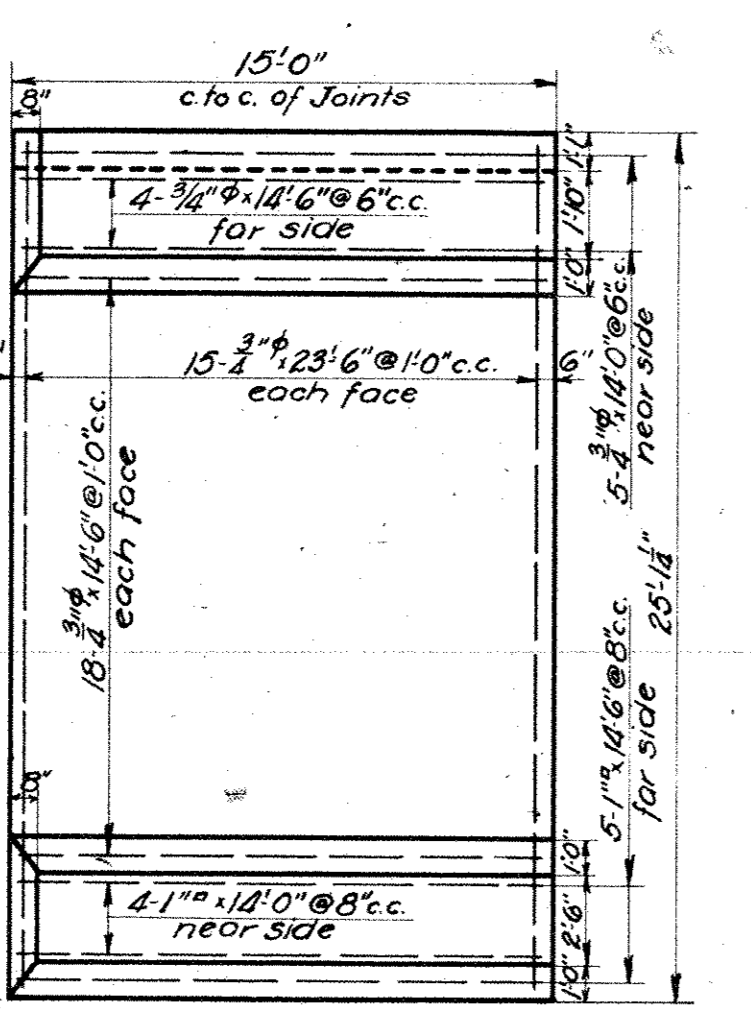
Issue No 1 Nov. 8, 1927.
 Revisions:
 Issue No 2 Nov. 25, 1927.
 Drawing checked and traced.
 Issue No 3 Dec. 16, 1927.
 Signed By Chief Engineer.
 Issue No 4 Dec. 29, 1927.
 changed note on Waterproofing.
 Issue No 5 Jan. 24, 1928.
 Approved By Heads of Departments.
 Issue No 6 Feb. 13, 1928.
 Moved all Water Lines to West side of Bridge.
 Issue No 7 April 24, 1928.
 Revised details of water lines.
 Approved by the City.
 Issue No 8 Sep. 7, 1933.
 Plan Conforms to Structure as Built.



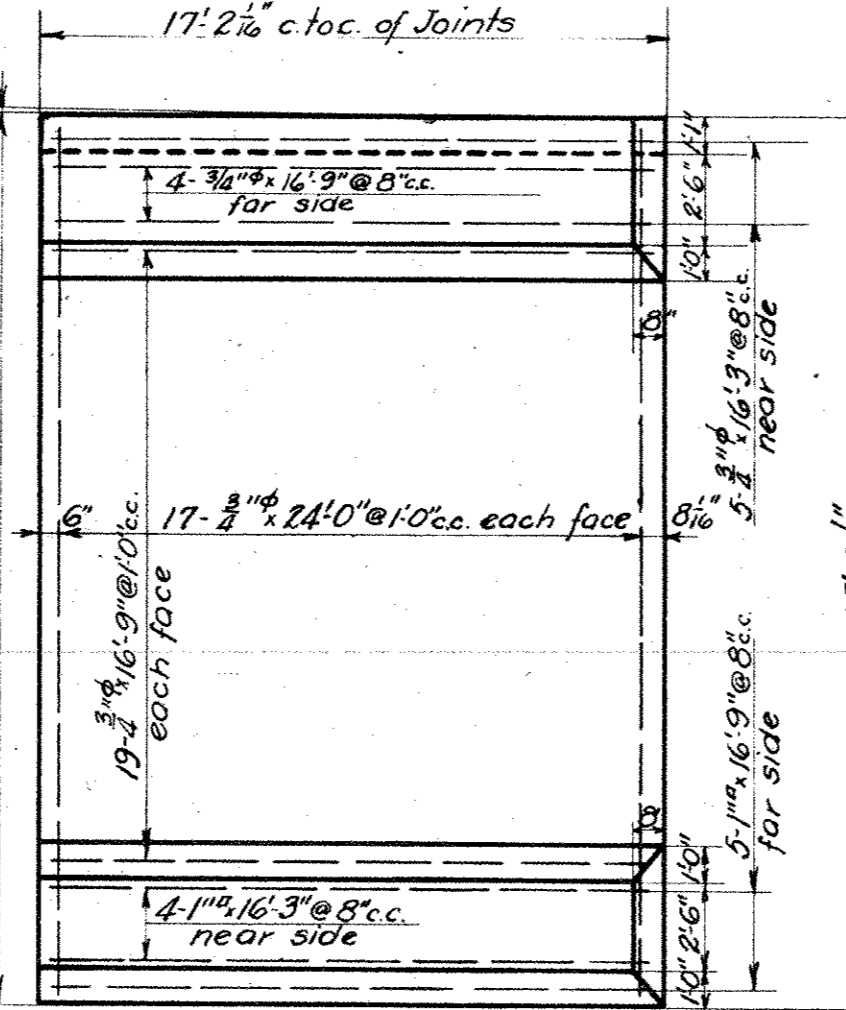
NOTE: ALL DIMENSIONS TO BE MEASURED ALONG FACE OF WALL.
 DEVELOPED ELEVATION OF SOUTH CURTAIN WALL LOOKING SOUTH
 Scale: 3/16"=1'-0"



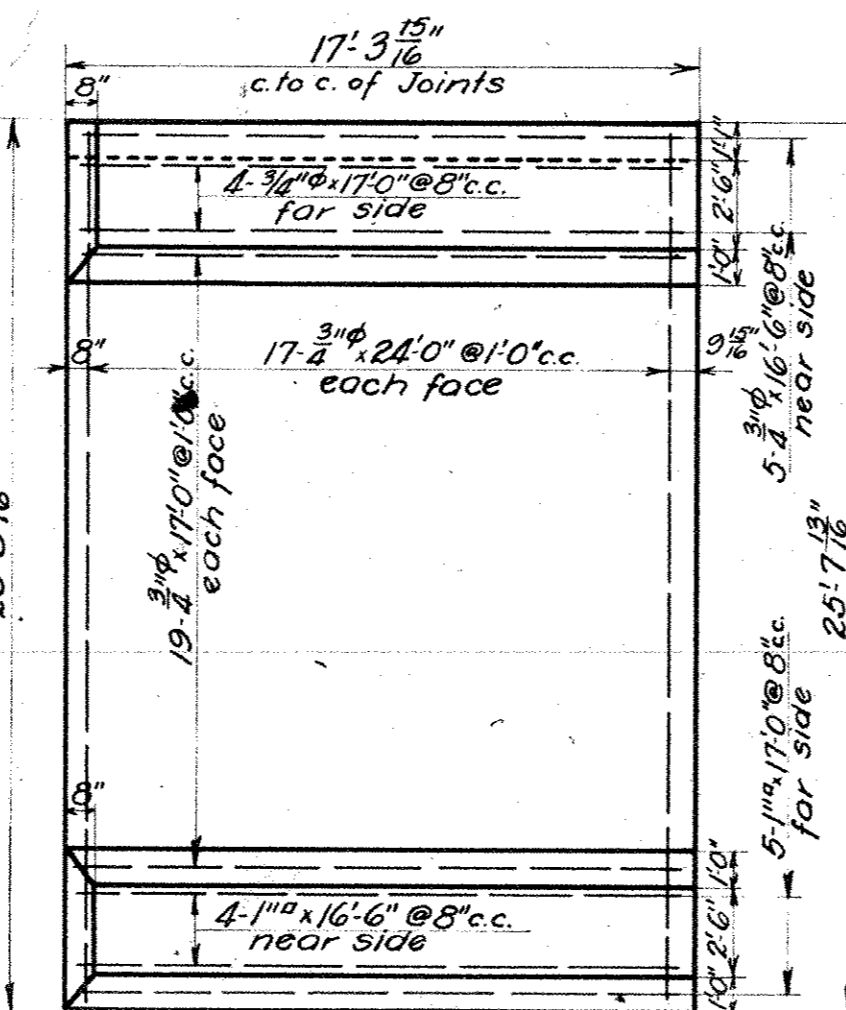
SLAB FOR PANELS 'A', 'B' & 'C'
 Scale: 3/16"=1'-0"



SLAB FOR PANEL 'D'
 Scale: 3/16"=1'-0"

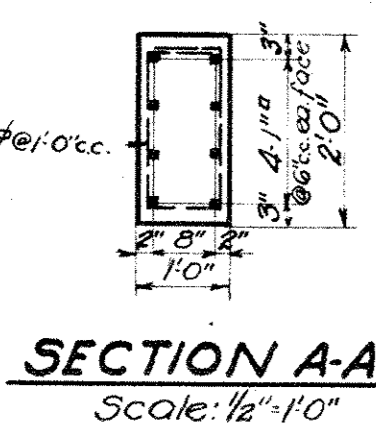


SLAB FOR PANEL 'E'
 Scale: 3/16"=1'-0"

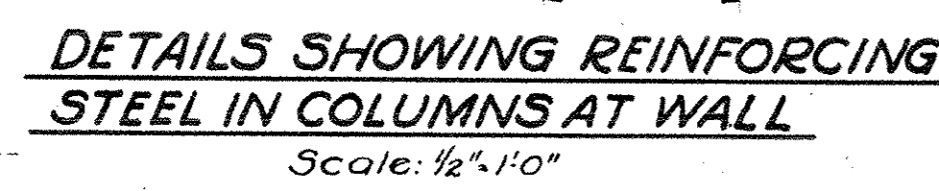


SLAB FOR PANEL 'F'
 Scale: 3/16"=1'-0"

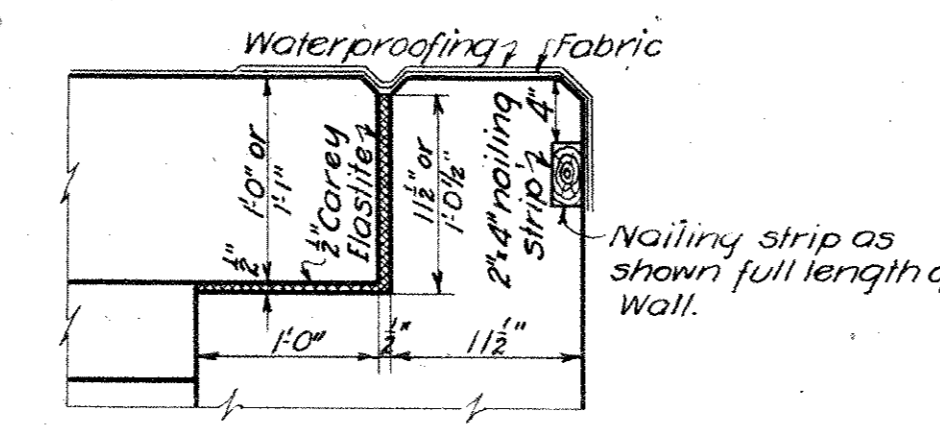
PANEL	a	b
A	25'6"	25'3"
B	25'9"	25'6"
C	25'9"	25'8"



SECTION A-A
 Scale: 1/2"=1'-0"

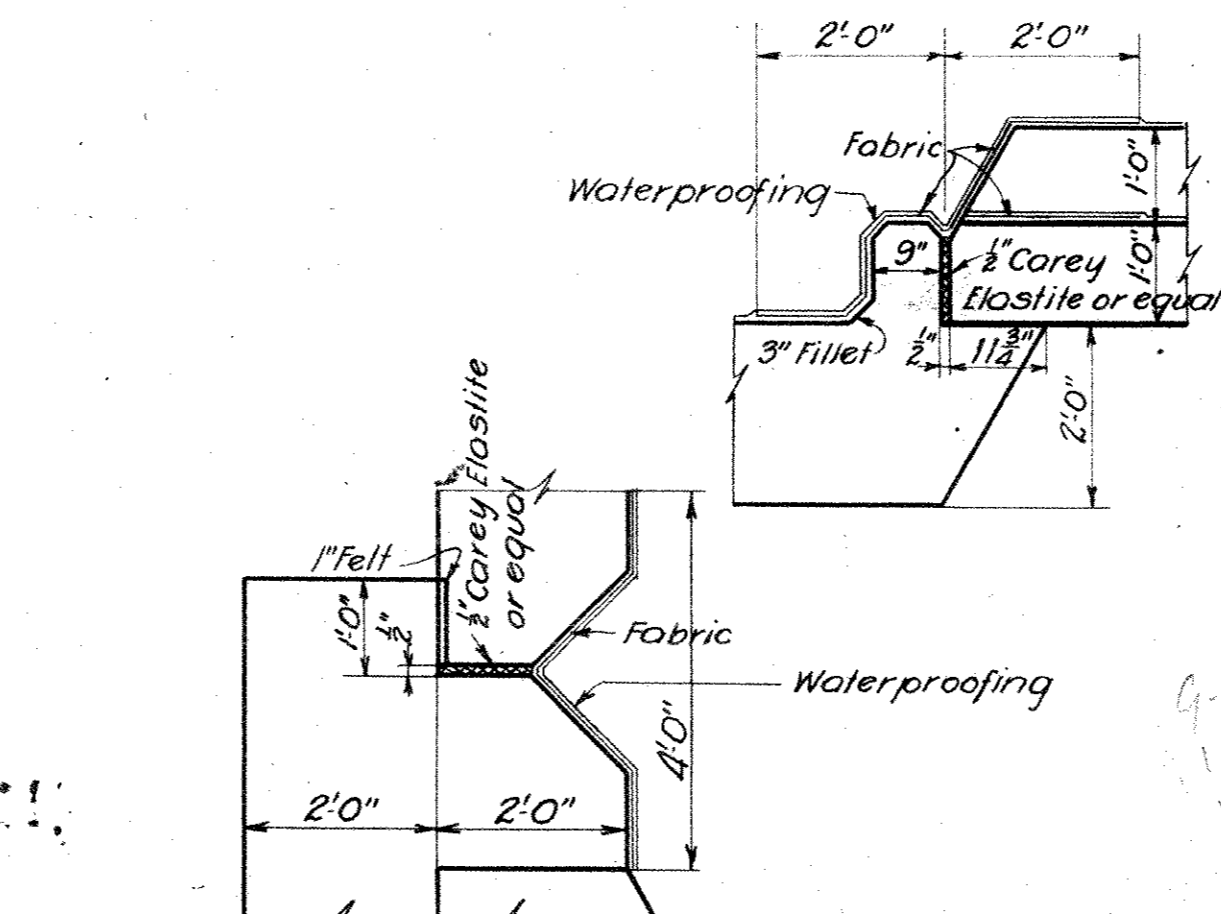


DETAILS SHOWING REINFORCING STEEL IN COLUMNS AT WALL
 Scale: 1/2"=1'-0"

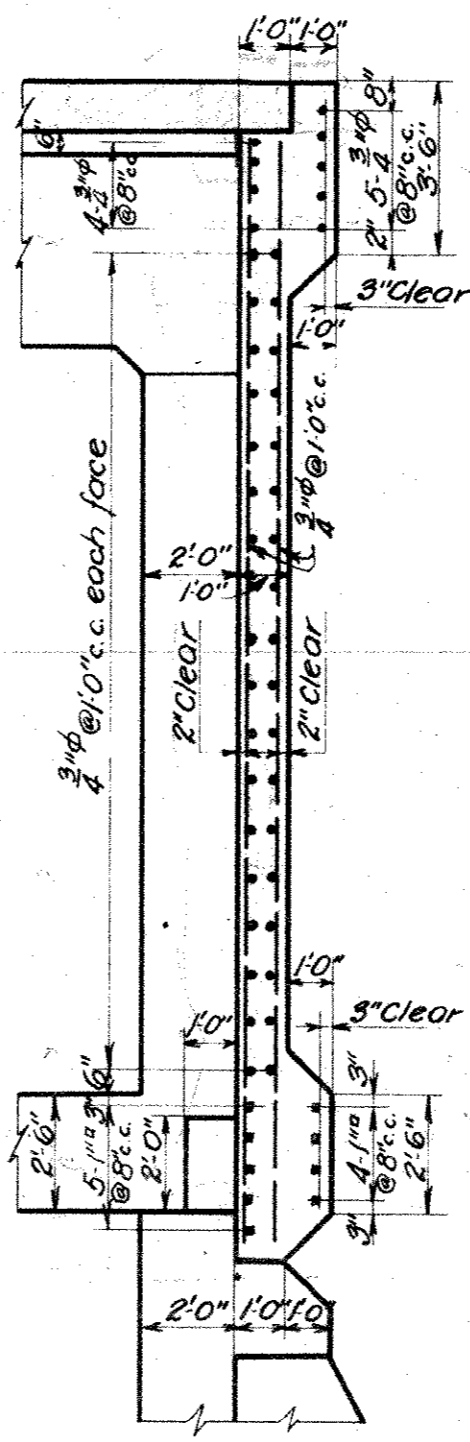


JOINT BETWEEN REMOVABLE SLABS AND DECK SLAB
 Scale: 1"=1'-0"

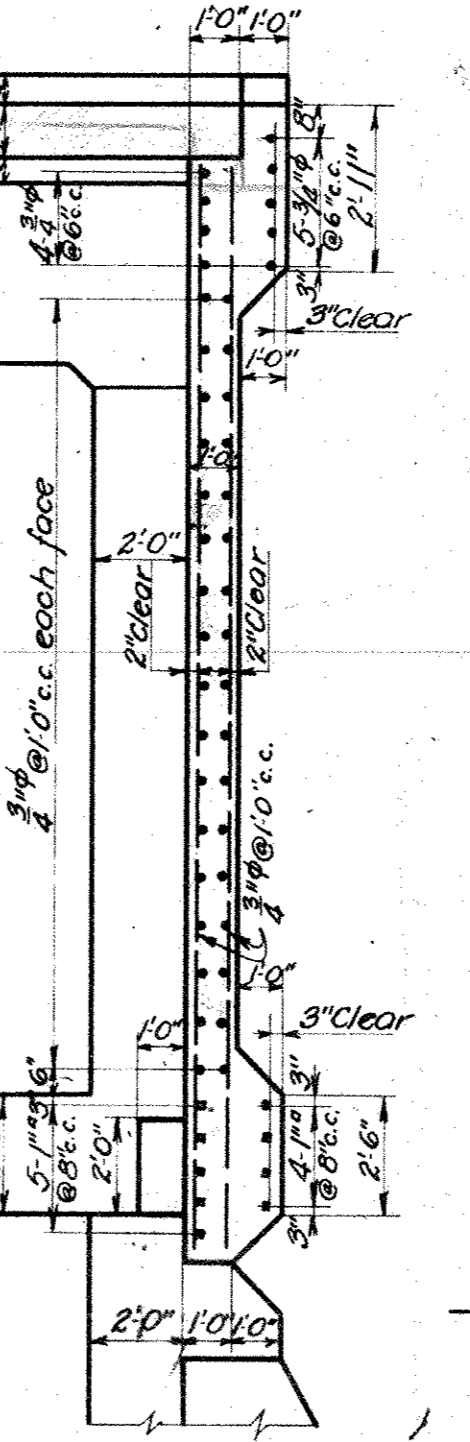
NOTE: All fillets are 6" except as noted.



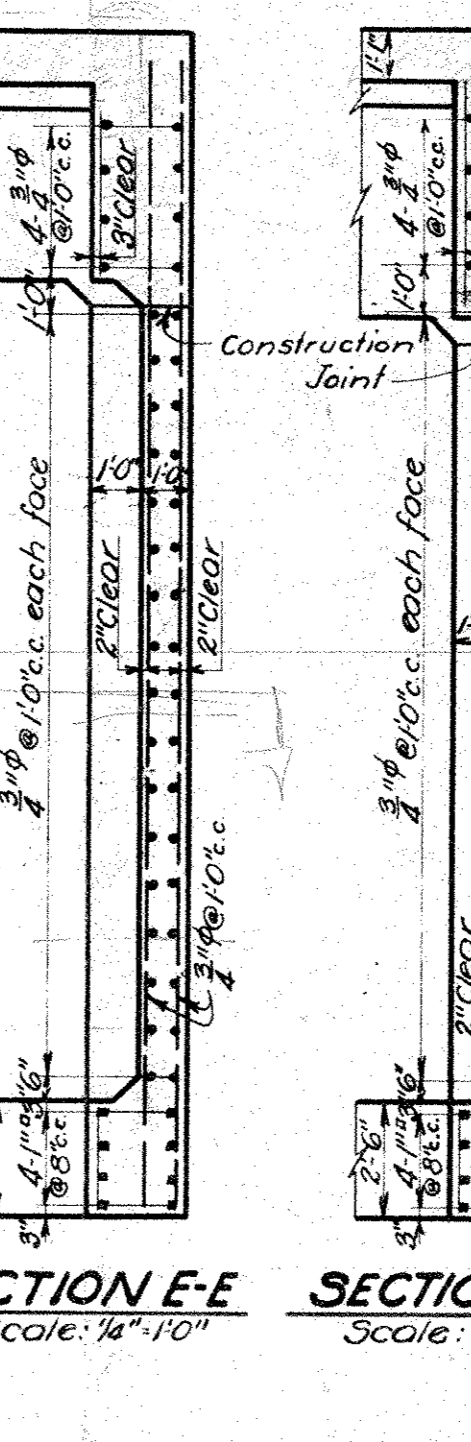
SECTIONS SHOWING WATERPROOFING AROUND REMOVABLE SLABS
 Scale: 1/2"=1'-0"



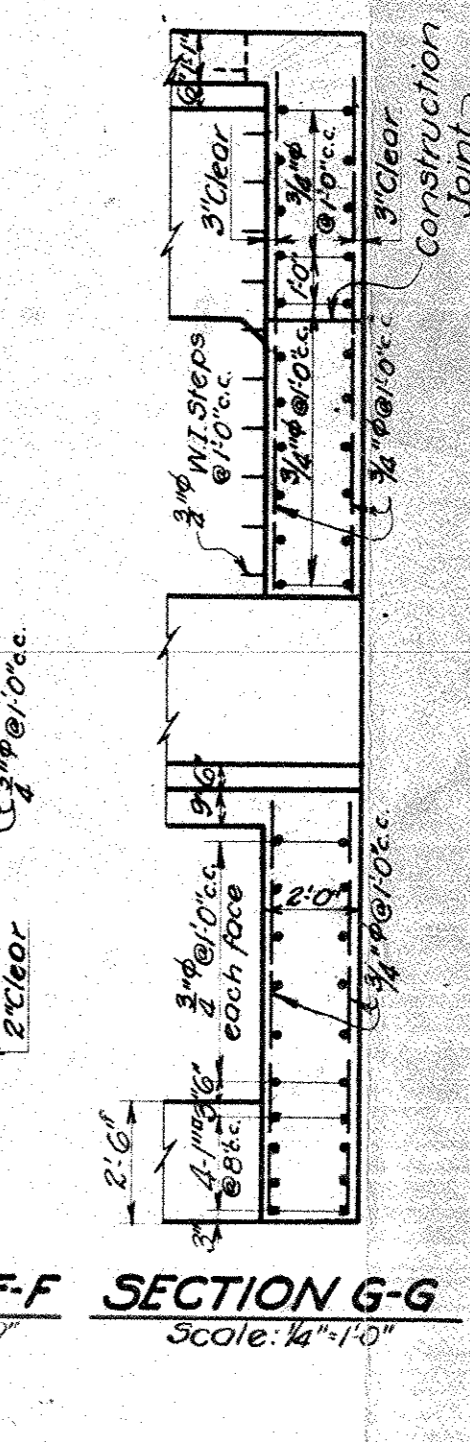
SECTION J-J
 Scale: 1/4"=1'-0"



SECTION C-C
 Scale: 1/4"=1'-0"



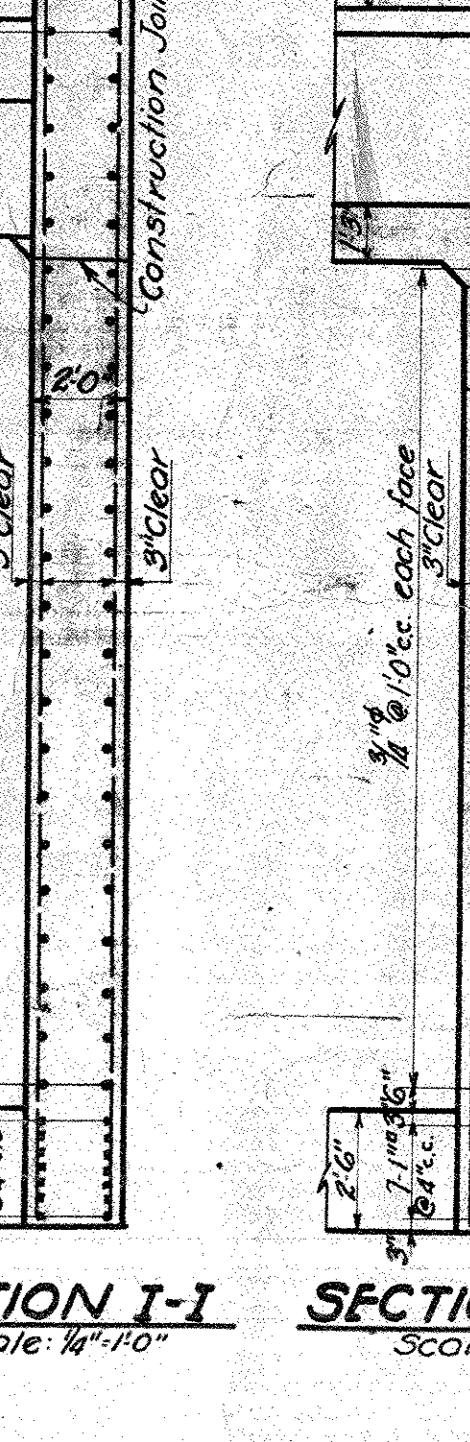
SECTION D-D
 Scale: 1/4"=1'-0"



SECTION E-E
 Scale: 1/4"=1'-0"



SECTION F-F
 Scale: 1/4"=1'-0"



SECTION G-G
 Scale: 1/4"=1'-0"



SECTION H-H
 Scale: 1/4"=1'-0"

NOTE: The ends of all service tunnels shall be bricked up after the utilities are in place.

USE THIS DETAIL AT BOTH ENDS OF WALL
 Scale: 1"=1'-0"

We hereby certify that this plan shows the structure as built.
 C. V. Murrah
 ENGINEER OF STRUCTURES
 ASST. ENGINEER OF CONSTRUCTION

Designed By: G.T.C. July 7, 1927.
 Detailed By: H.H. Nov. 8, 1927.
 Traced By: M.B. Nov. 23, 1927.
 Checked By: T.W. Nov. 25, 1927.
 Corrected By: J.D. 3.2.1927.
 Designing Engineer

Approved: C. V. Murrah
 Engineer of Structures
 Approved: [Signature]
 Principal Assistant Engineer
 Approved: [Signature]
 Assistant Electrical Engineer
 Approved: [Signature]
 Engineer of Construction

Plan Approved
 CITY OF CLEVELAND
 By: ROBERT HOFFMANN
 Commissioner of Engineering & Construction
 Date: 4-13-28

CLEVELAND UNION TERMINALS CO
 CENTRAL AVE BRIDGE
 ELEVATION AND DETAIL
 OF SOUTH CURTAIN WALL
 CLEVELAND, OHIO
 OFFICE OF ENGINEERS OF STRUCTURES
 SCALE: As shown
 ISSUE No. 6
 DATE: Nov. 8, 1927.
 REVISED 7-1-28
 CHIEF ENGINEER

Issue No A June 30, 1927.

REVISIONS:
Issue No B Nov. 28, 1927.
Drawing Checked and Traced.

Issue No 1 Nov. 30, 1927.
Signed By Chief Engineer.

Issue No 2 Dec. 6, 1927.
Minor Revisions.

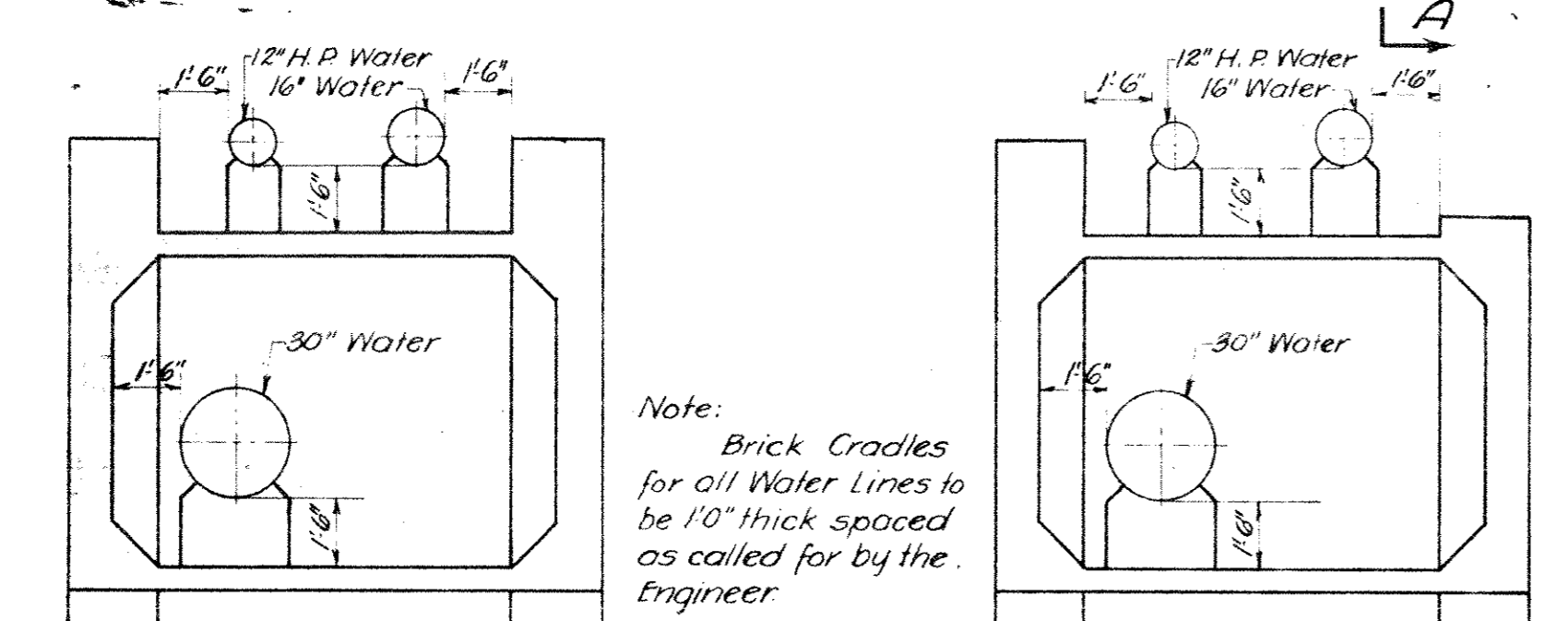
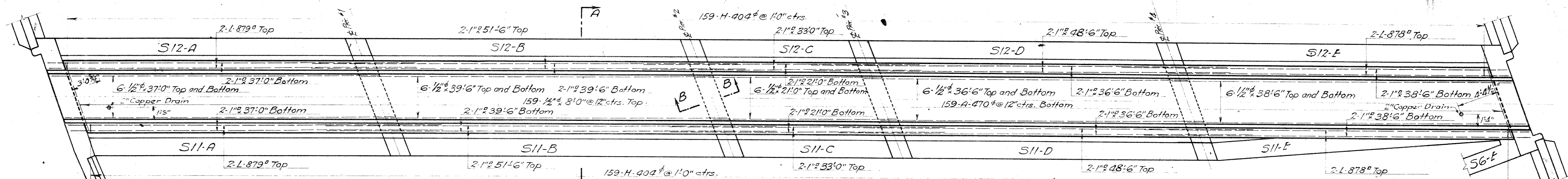
Issue No 3 Dec. 28, 1927.
Changed note on Waterproofing.

Issue No 4 Jan. 24, 1928.
Approved By Heads of Department.

Issue No 5 Feb. 24, 1928.
Revised to move all Water Chambers to West side of Bridge. Added section showing new Water Chamber.

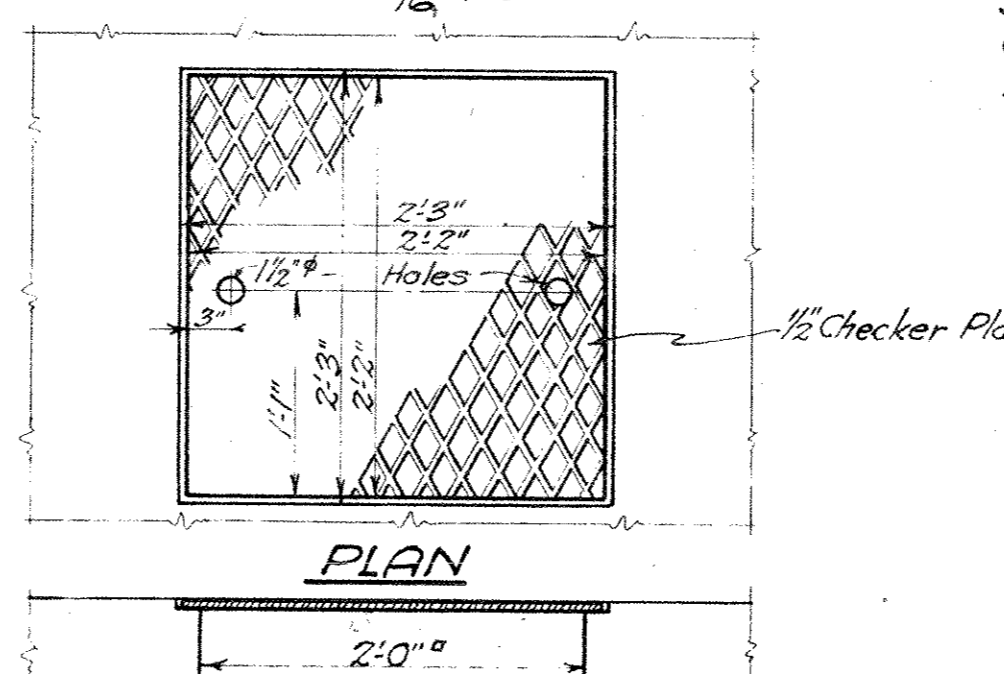
Issue No 6 April 24, 1928.
Revised details of water lines. Approved by the City.

Issue No 7 Sept. 1, 1933.
Plan Corrected to Conform to Structure as Built.



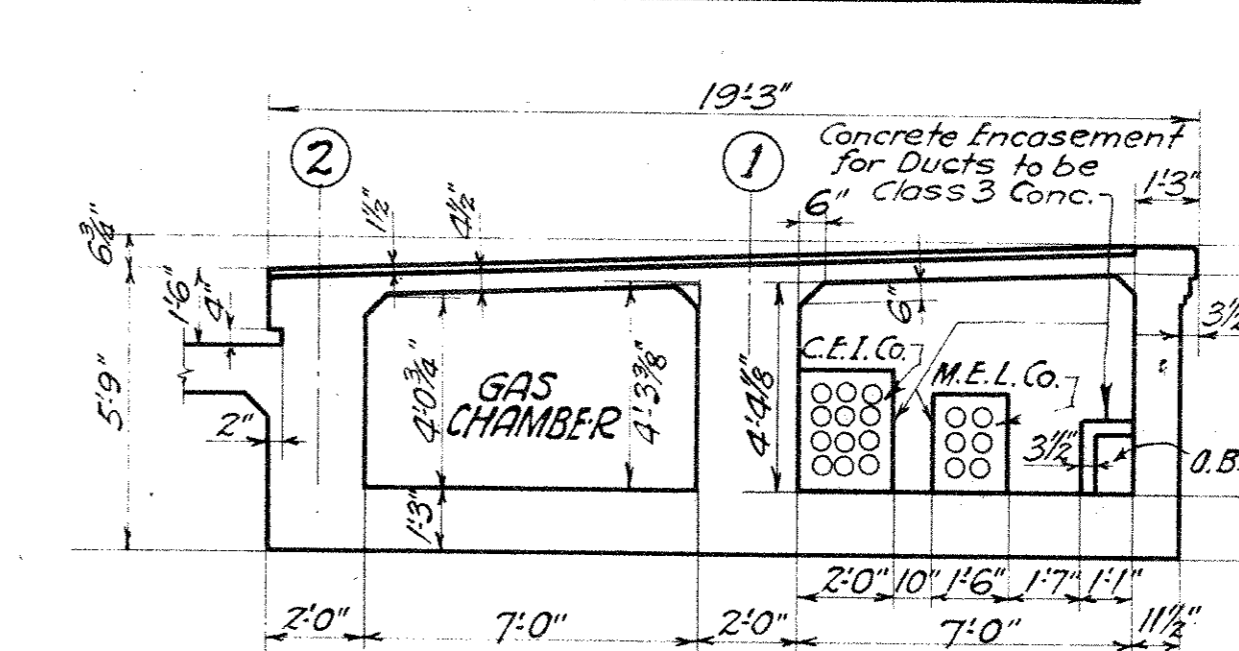
SECTION THRU WATER CHAMBERS WEST SIDE OF BRIDGE Showing all Water Lines Scale: 1/2"=1'-0"

PLAN OF SEWER CHAMBER Scale: 3/8"=1'-0"

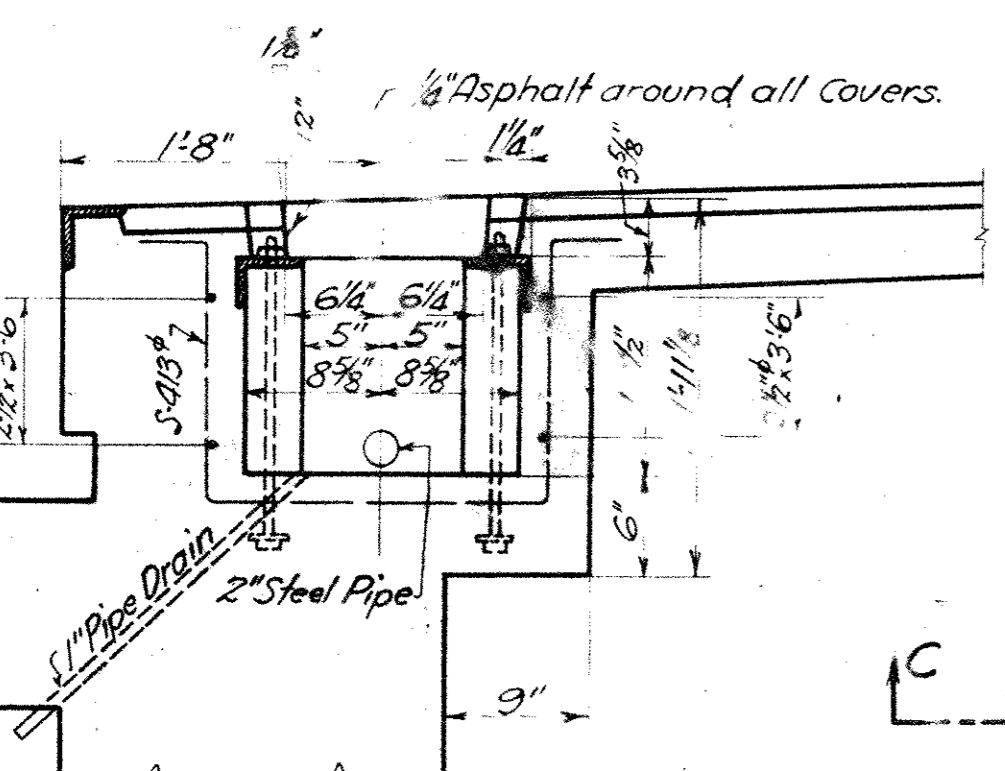


Concrete Cradles for 24" C.I. Sewer Pipes 3'-0" x 1'-0" x 6'-0" cts. Cradles vary in height and must be built up to center line of pipe.

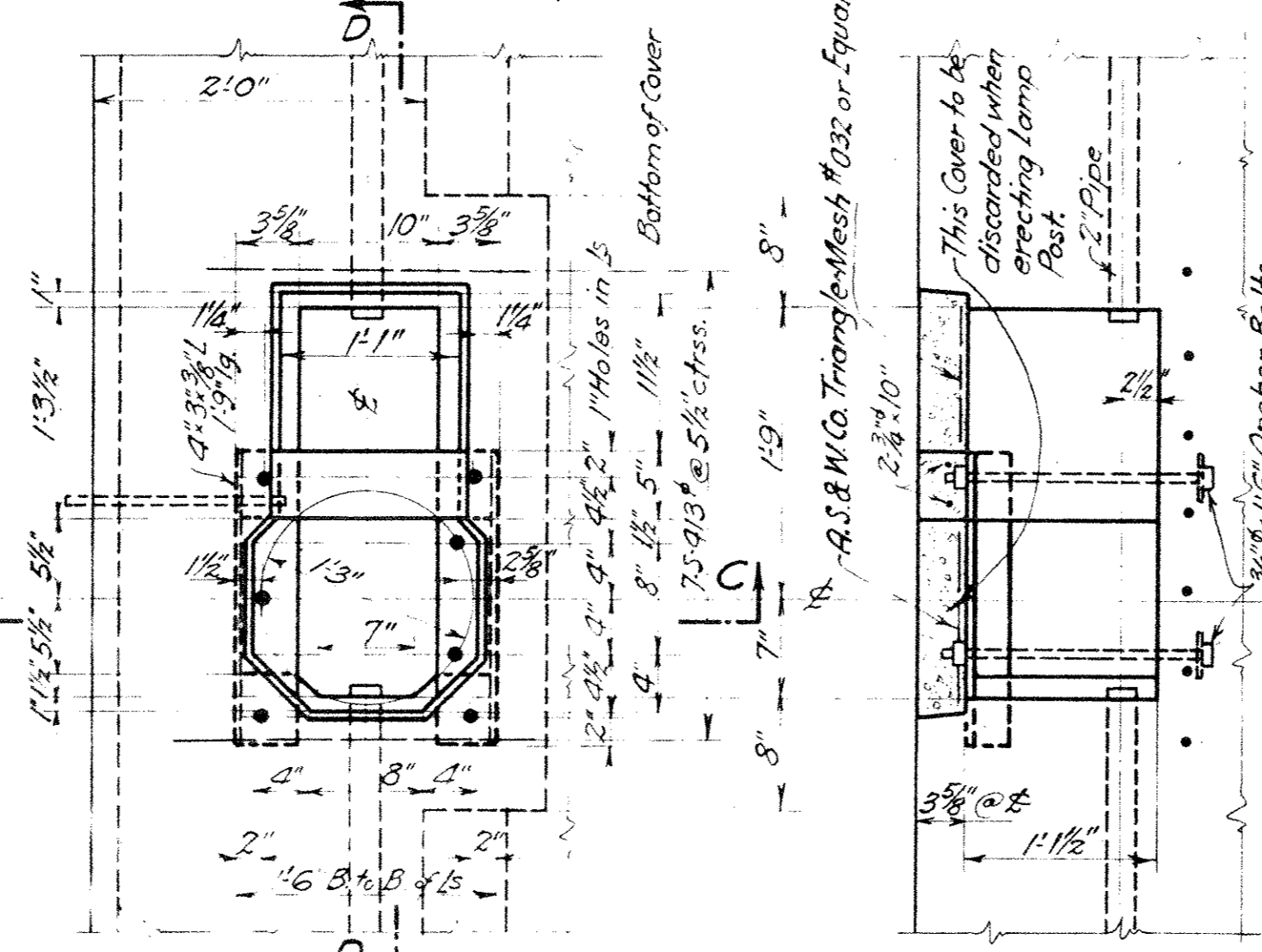
DETAIL OF SEWER CRADLE



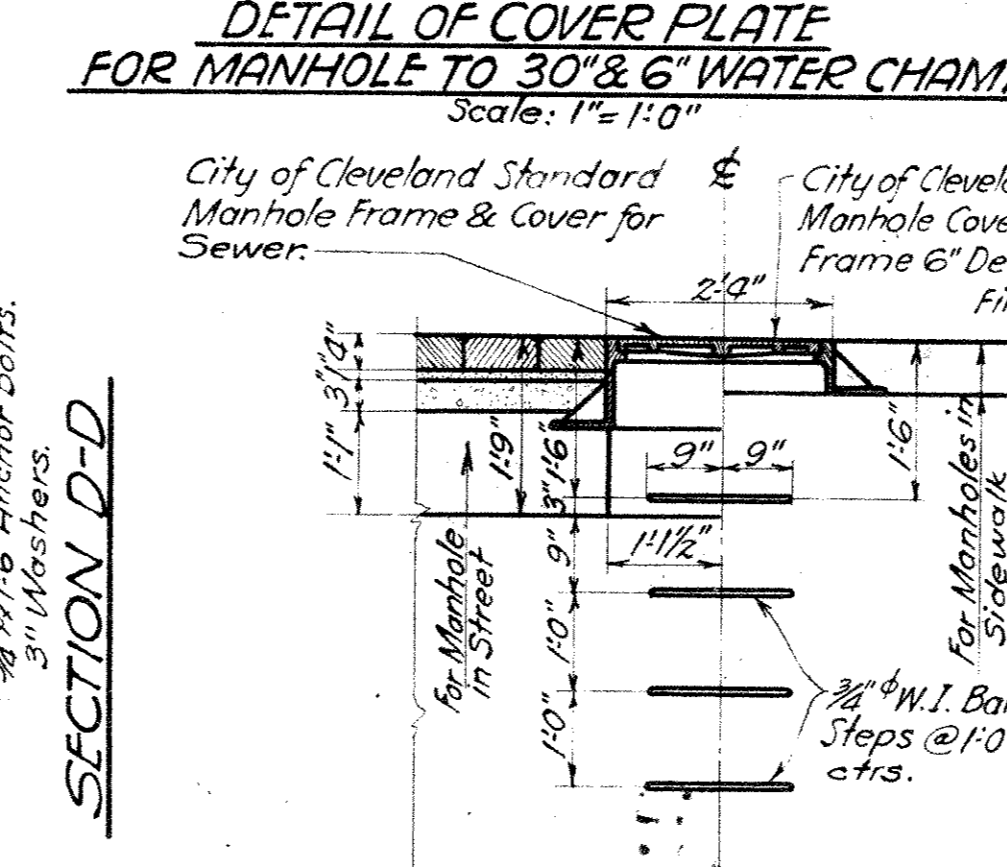
SECTION THRU EAST SIDEWALK SHOWING GAS & DUCT CHAMBERS Scale: 1/4"=1'-0"



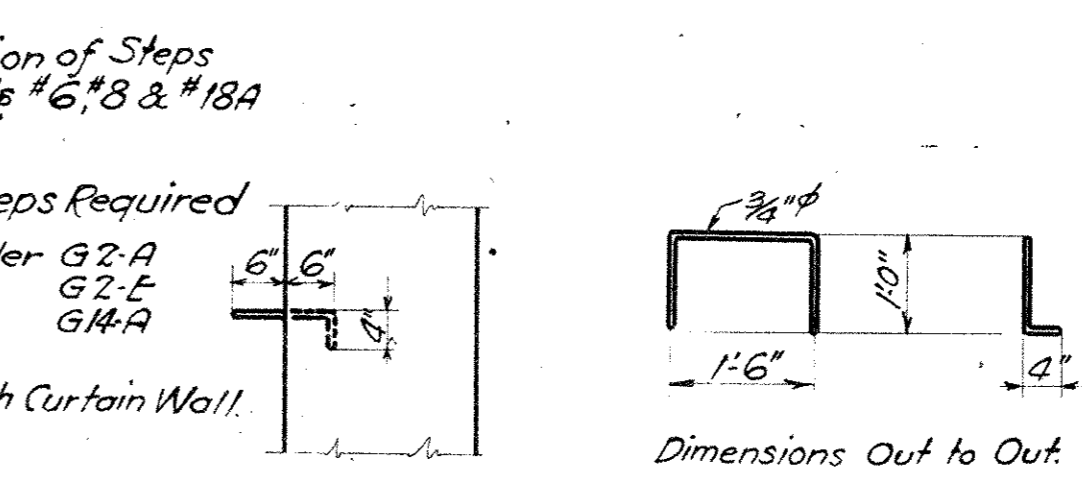
SECTION C-C



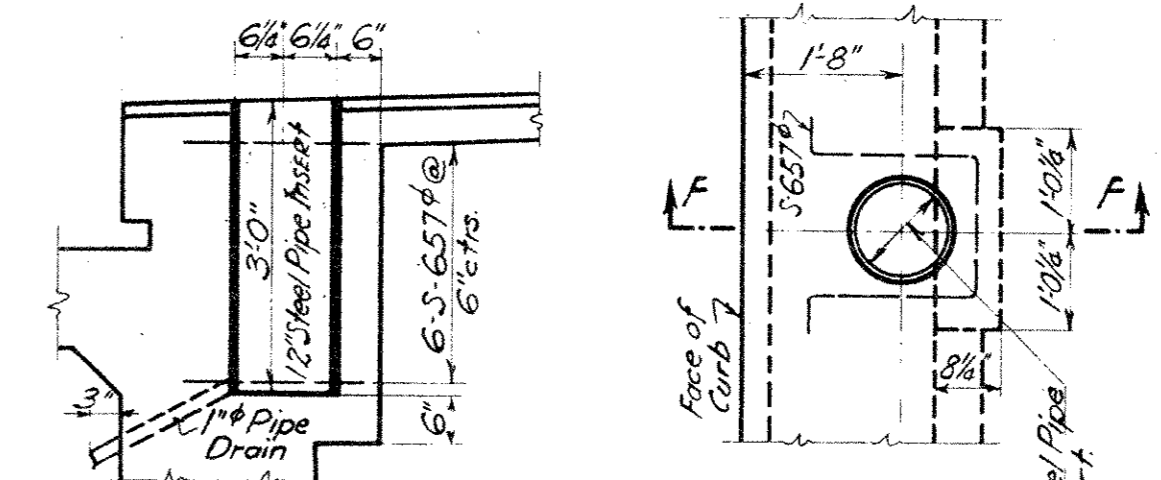
PLAN 2 Covers Removed DETAILS OF LAMP POST BASE Scale: 1"=1'-0"



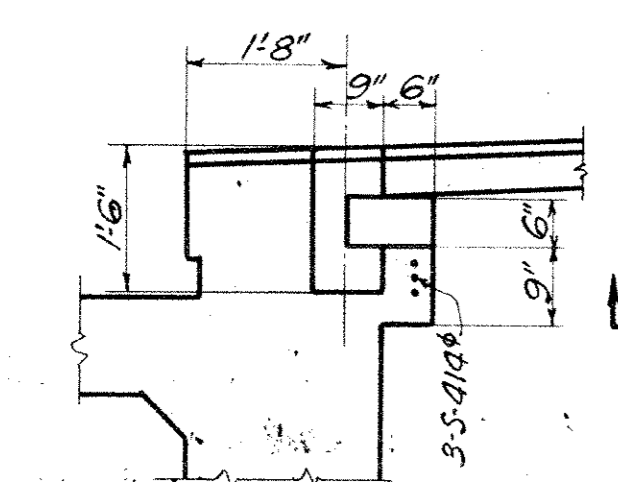
DETAIL SHOWING MANHOLE FRAMES Scale: 1/2"=1'-0"



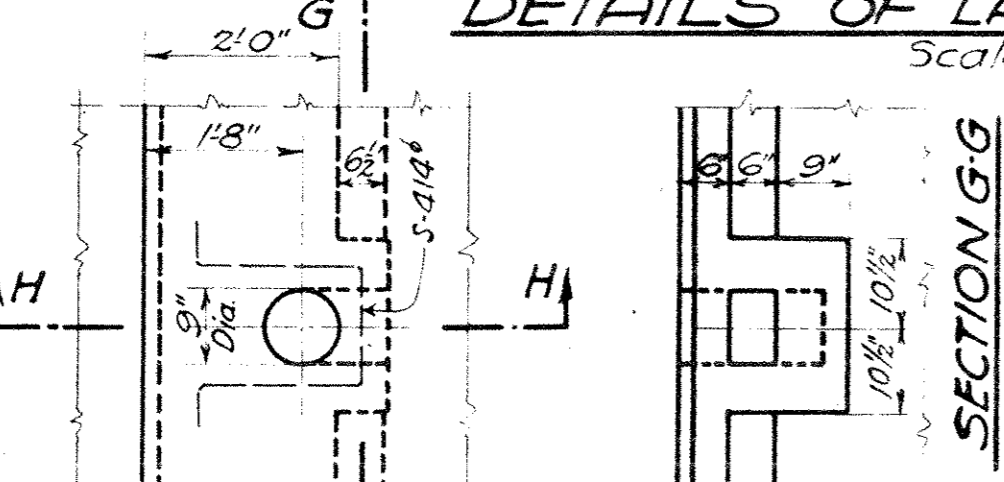
DETAILS OF W.I. STEP



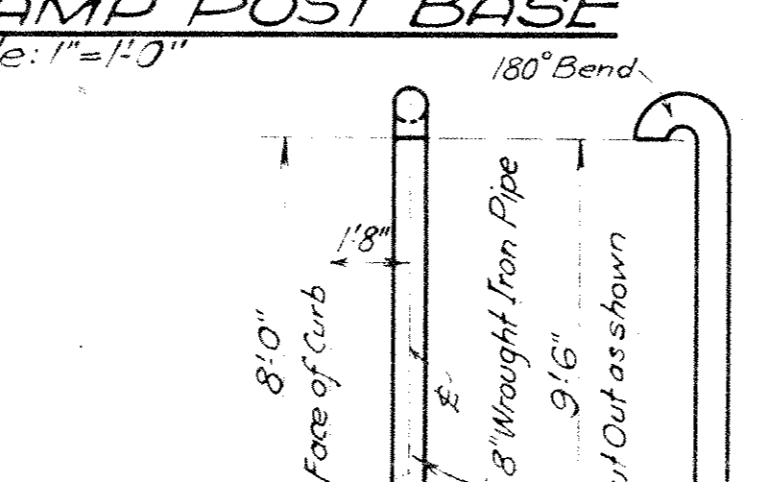
SECTION F-F DETAILS OF TROLLEY POLE ANCHORAGE Scale: 1/2"=1'-0"



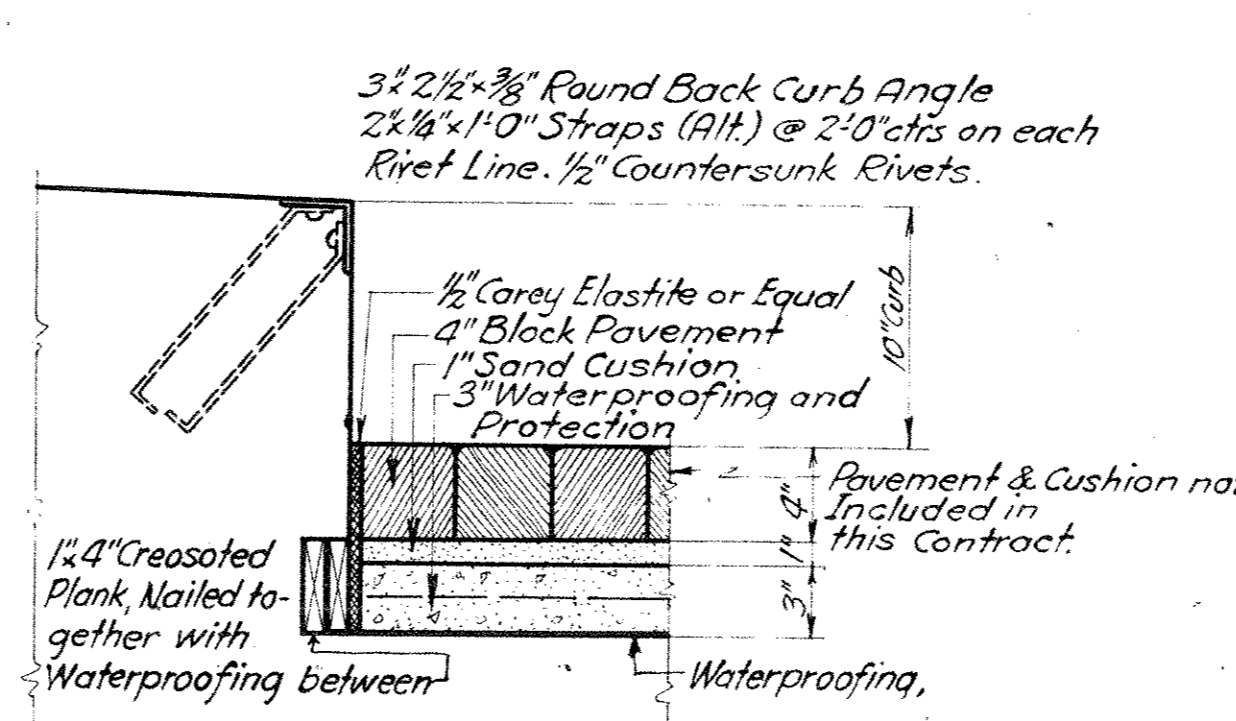
SECTION H-H



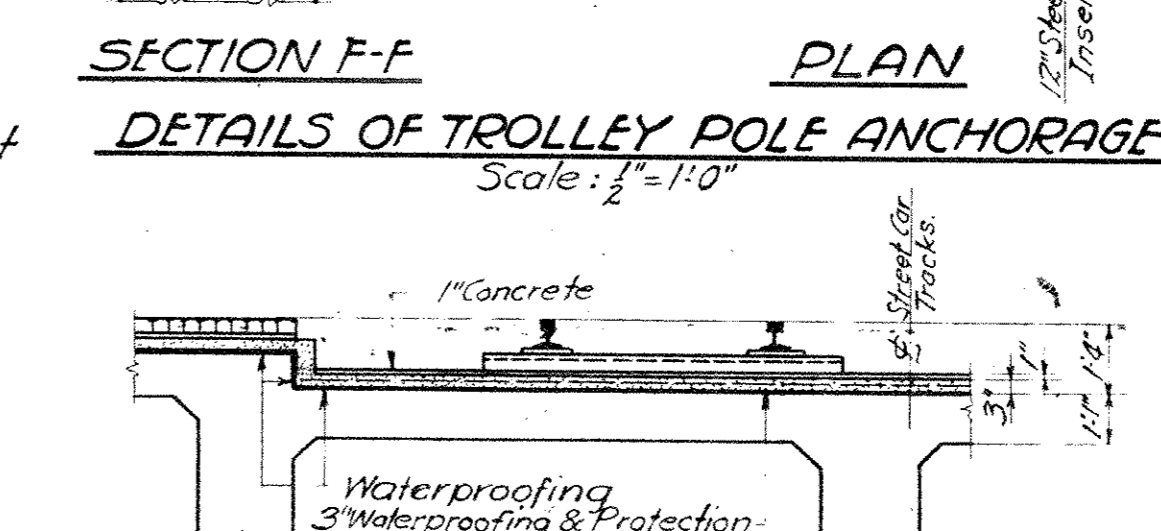
DETAILS OF GAS CHAMBER VENT ANCHORAGE Scale: 1/2"=1'-0"



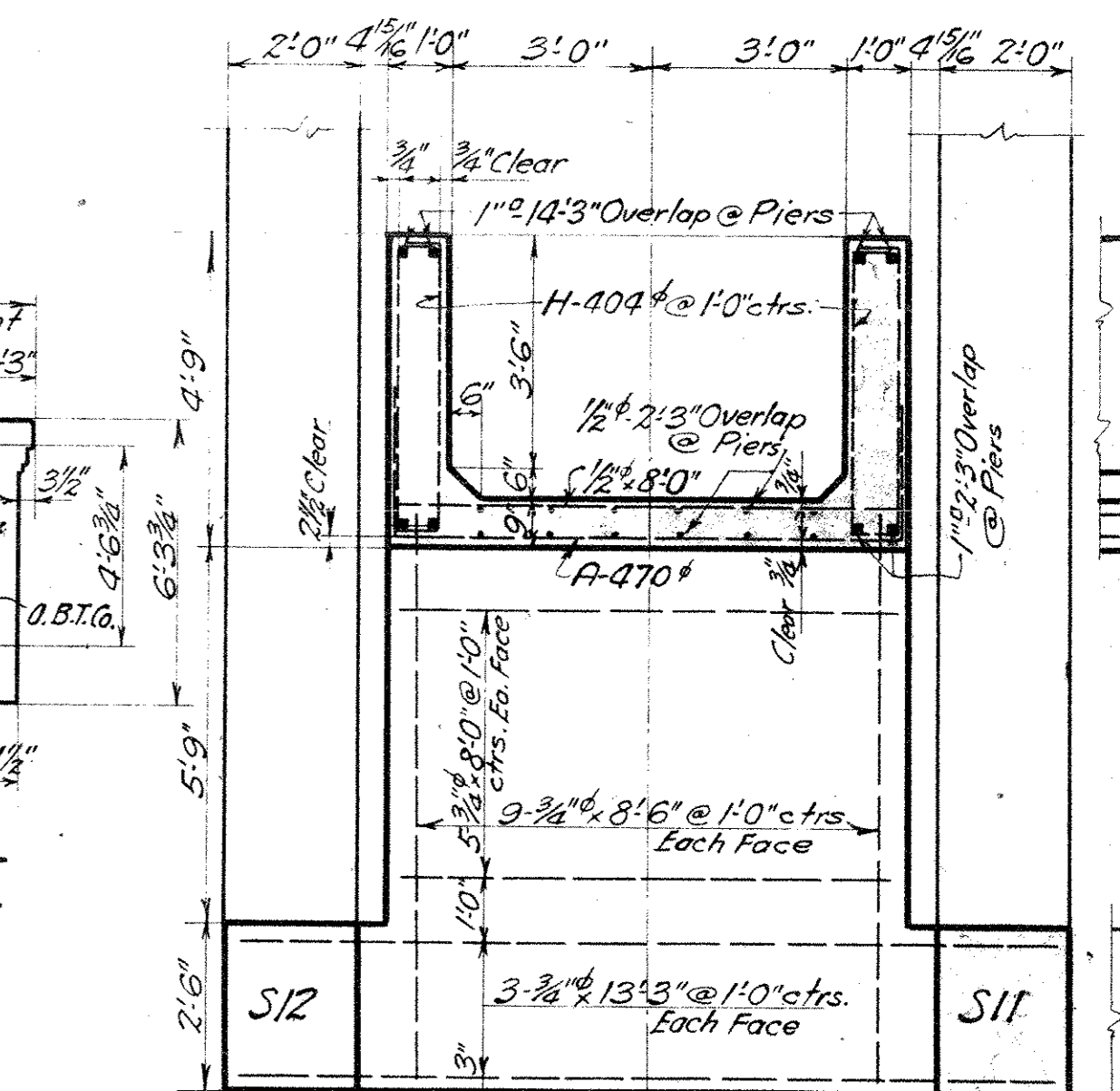
DETAIL OF VENT FOR GAS CHAMBER Scale: 1/2"=1'-0"



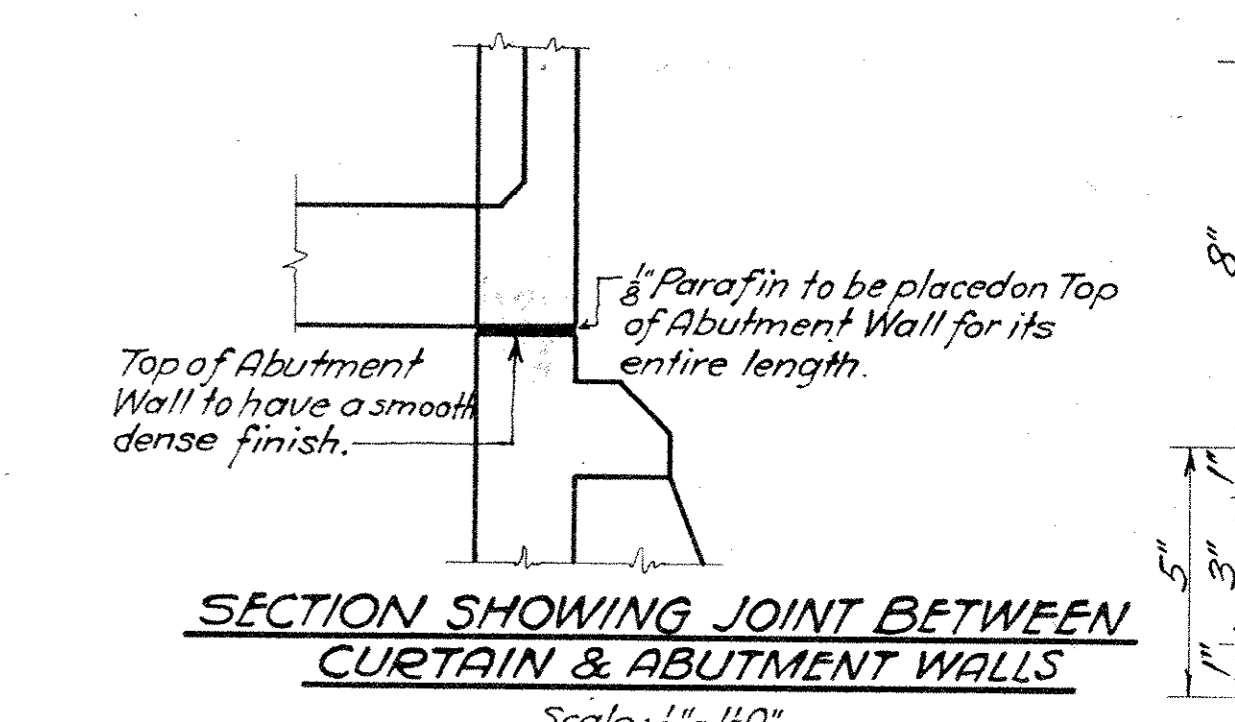
CURB AND PAVING DETAIL Scale: 1/2"=1'-0"



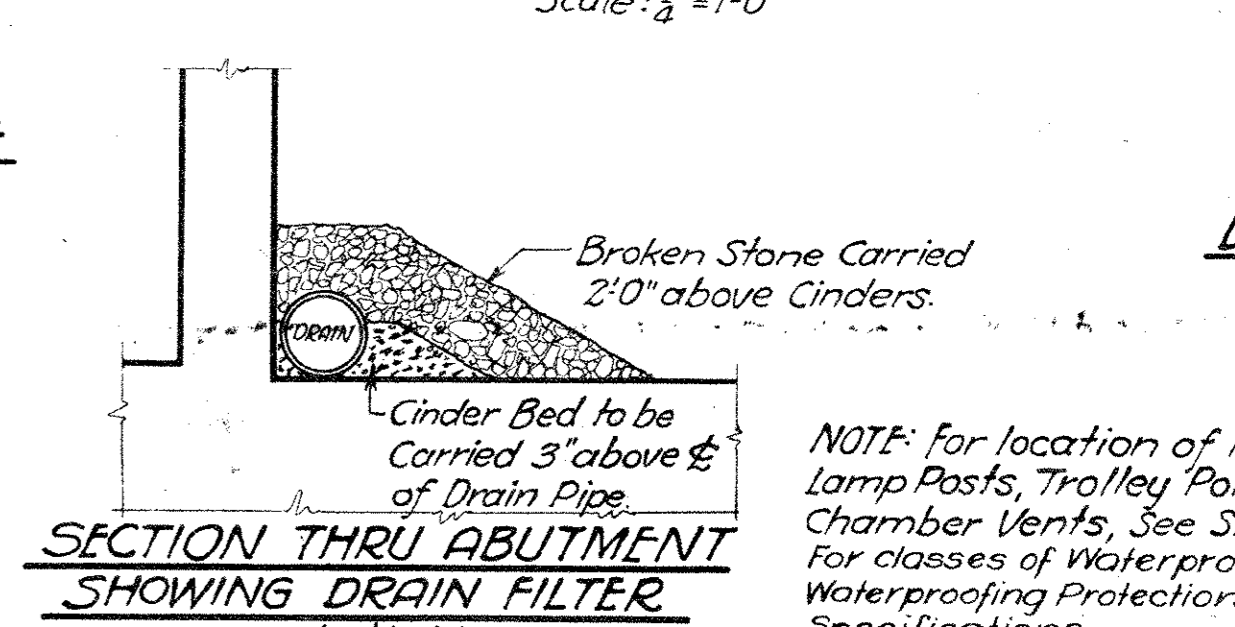
SECTION THRU STREET CAR TRACKS Scale: 1/4"=1'-0"



SECTION A-A SECTION B-B Note: Same for all Piers. Scale: 3/8"=1'-0"



SECTION SHOWING JOINT BETWEEN CURTAIN & ABUTMENT WALLS Scale: 1/4"=1'-0"



SECTION THRU ABUTMENT SHOWING DRAIN FILTER Scale: 1/4"=1'-0"

DETAIL AT COPING Scale: 3/8"=1'-0"

NOTE: for location of Manholes, Lamp Posts, Trolley Poles and Gas Chamber Vents, See Sheet N9.5. For classes of Waterproofing and Waterproofing Protection see Specifications.

We Hereby Certify That This Plan Shows The Structure As Built.

T. V. Marsh, ENGINEER OF STRUCTURES

ASST. ENGINEER OF CONSTRUCTION

Designed By G.T.C. June 30, 1927.

Detailed By L.C.B. June 30, 1927.

Traced By S.H. Nov. 28, 1927.

Checked By T.W. Nov. 28, 1927.

Corrected By J.C. 30, 1927.

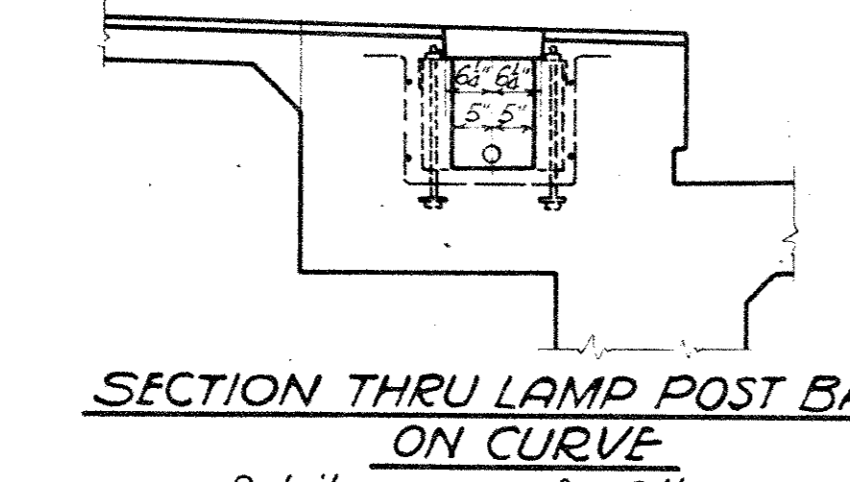
H. L. Gorman, Designing Engineer

Approved E. O. Marsh, Engineer of Structures

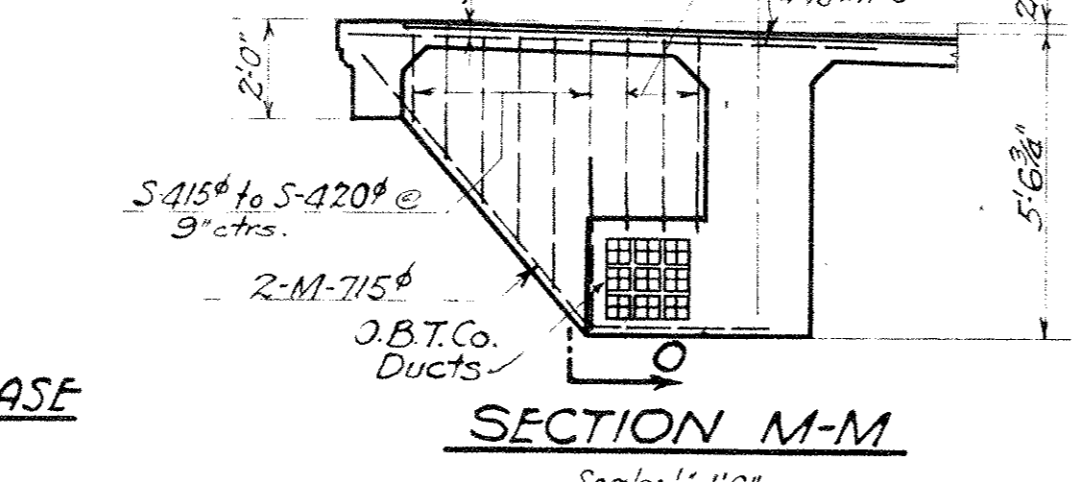
Approved J. C. B. Principal Assistant Engineer

Approved S. H. Assistant Electrical Engineer

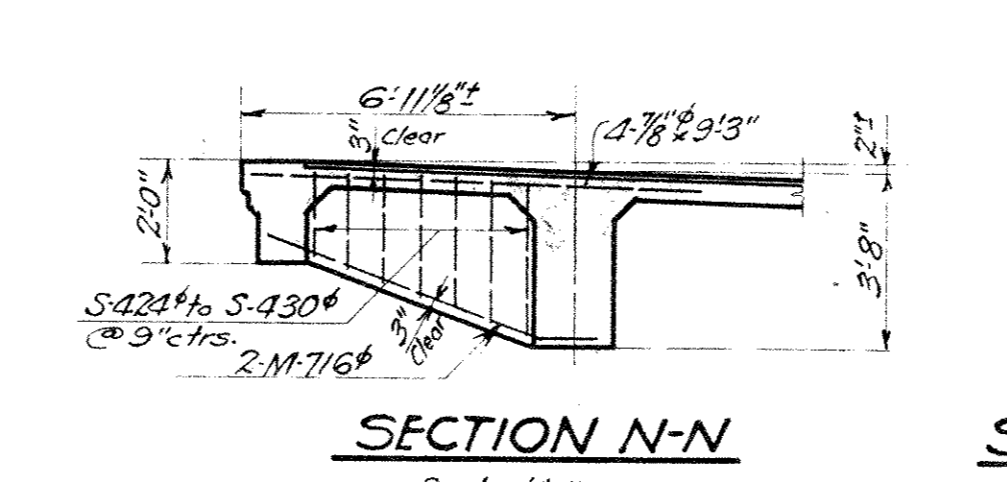
Approved J. C. B. Engineer of Construction



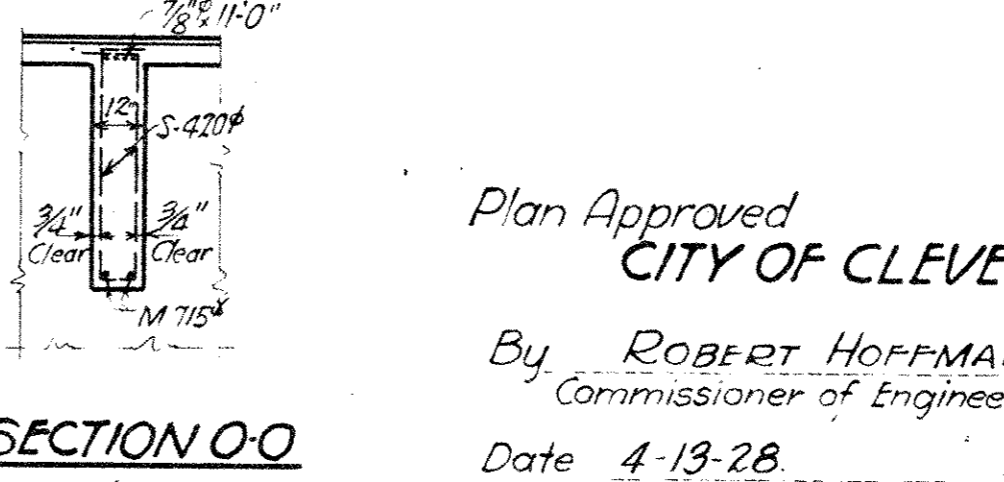
SECTION THRU LAMP POST BASE ON CURVE Details same as for Others



SECTION M-M Scale: 1/2"=1'-0"



SECTION N-N Scale: 1/2"=1'-0"



SECTION O-O Scale: 1/2"=1'-0"

For location of Sections See Sh. # 5

Plan Approved CITY OF CLEVELAND

By ROBERT HOFFMANN, Commissioner of Engineering & Construction

Date 4-13-28

THE CLEVELAND UNION TERMINALS CO. CENTRAL AVE. BRIDGE UTILITIES SUPPORTS, MISCELLANEOUS DETAILS CLEVELAND, OHIO.

OFFICE OF ENGINEER OF STRUCTURES SCALE: AS SHOWN DATE JUNE 30, 1927

ISSUE NO. 7 REVISOR: J. C. B. CHIEF ENGINEER

FILE NO 113-065