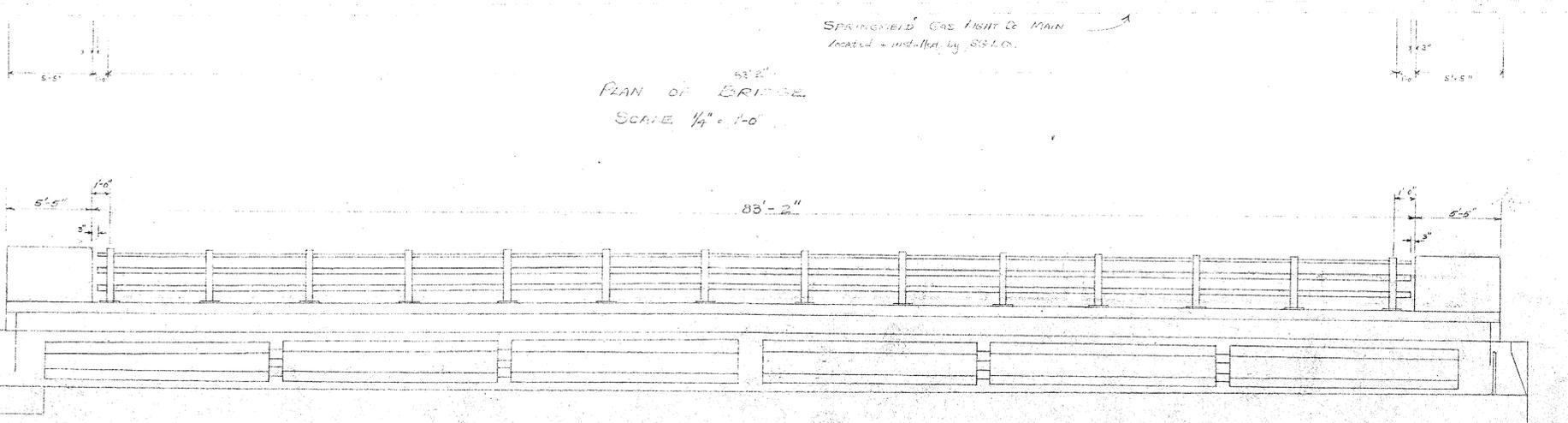
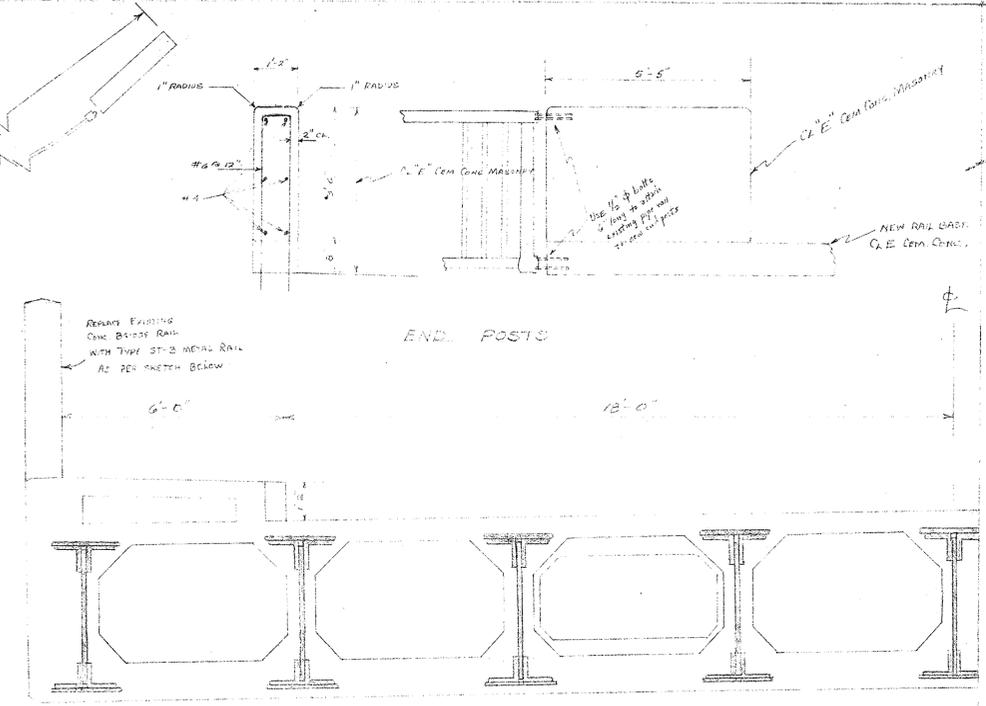




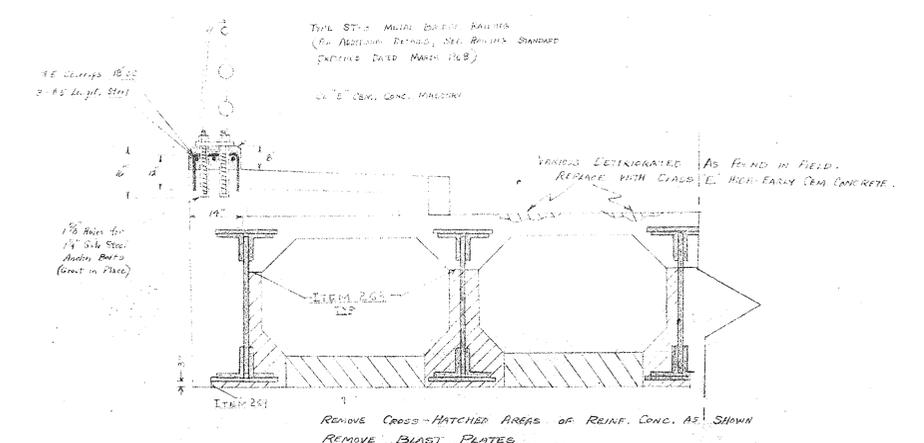
PLAN OF BRIDGE
SCALE 1/4" = 1'-0"



ELEVATION VIEW
SCALE 1/4" = 1'-0"



CROSS SECTION AT CENTER
NOT TO SCALE



CROSS SECTION AT CENTER
NOT TO SCALE

SPRINGFIELD
BR S-24-16
ARMORY ST BRIDGE OVER
PENN. CENTRAL RR

AVAILABLE PLANS AND FIELD INSPECTION REPORTS

The following plans and field inspection reports were made available to Walter J. Hickey Associates, Inc., for use in determining the live load rating of the bridge.

1. Springfield Department of Streets and Engineering
Armory Street Bridge over Boston and Albany RR
4 Sheets
Dated November 4, 1932
2. Massachusetts Department of Public Works
Structure Inventory and Appraisal
Bridge No. S-24-16
Bridge Key No. 900-246-104-100
(See Appendix A)
3. Massachusetts Department of Public Works
Structure Inspection Report
Bridge Key No. 900-246-104-100
Dated January 8, 1982
(See Appendix A)

Springfield
S-24-16
1872

Page 8

BRIDGE RATING

PREPARED FOR

THE DEPARTMENT OF PUBLIC WORKS
COMMONWEALTH OF MASSACHUSETTS

SPRINGFIELD

S-24-16

ARMORY STREET OVER PC RAILROAD

BRIDGE KEY NO. 900-246-104-100

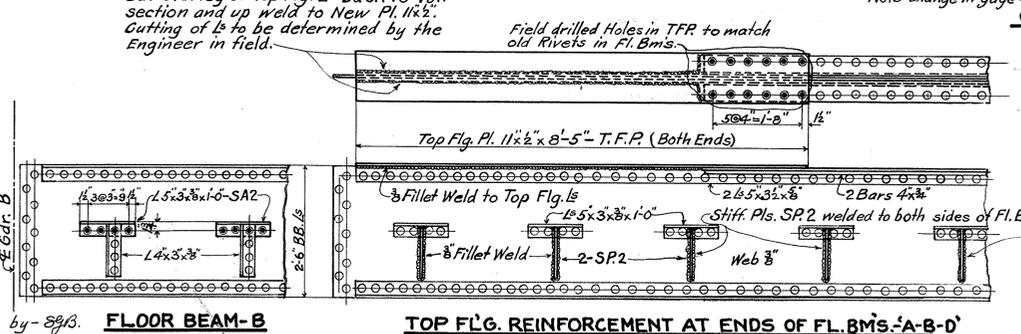
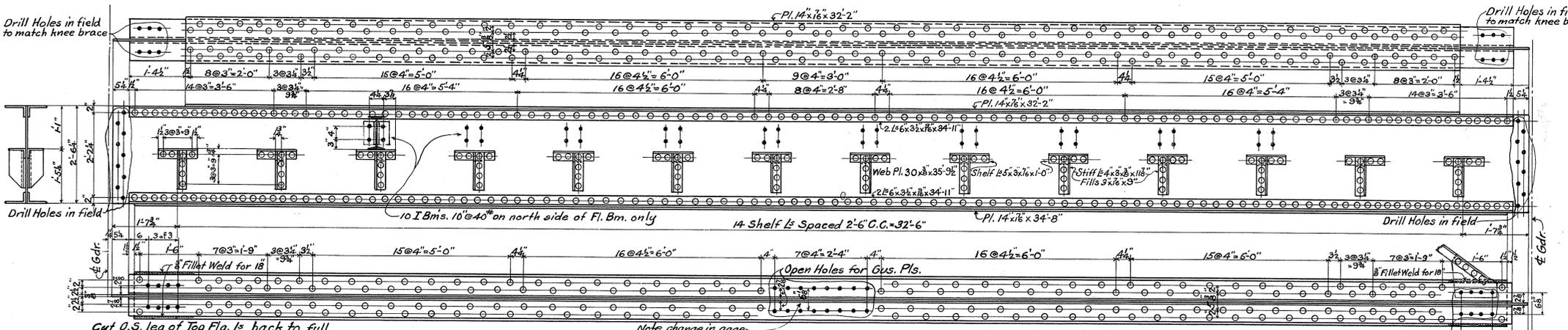
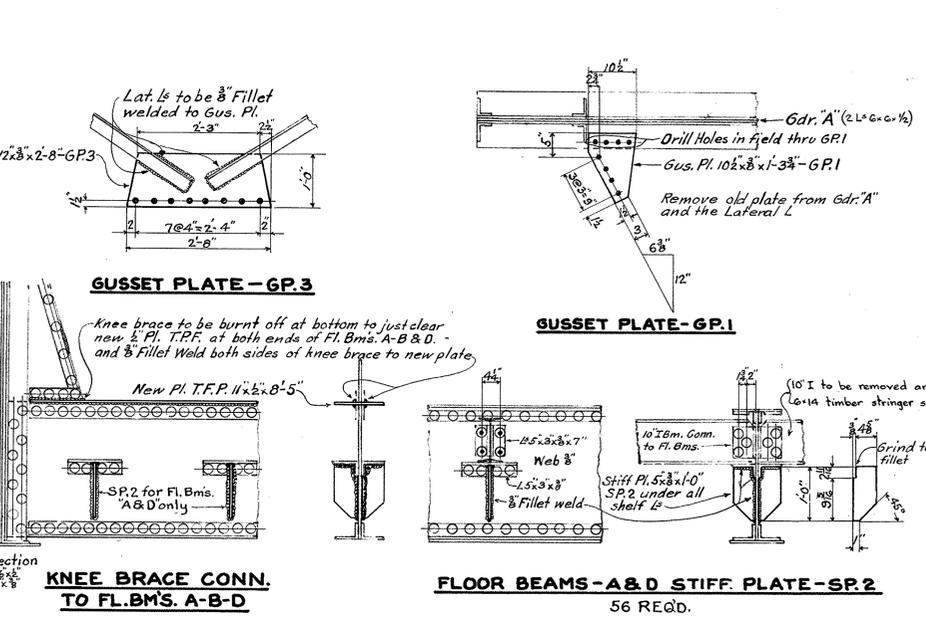
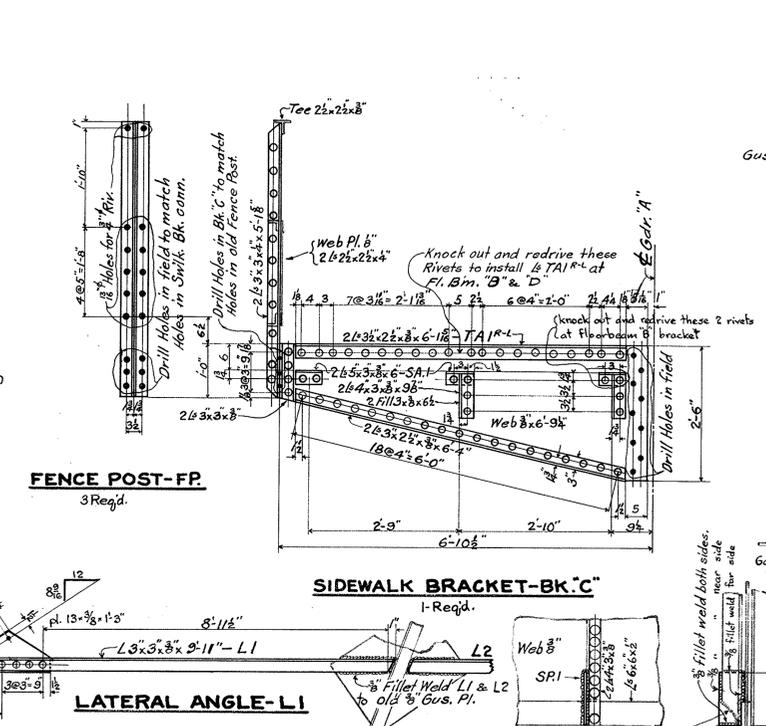
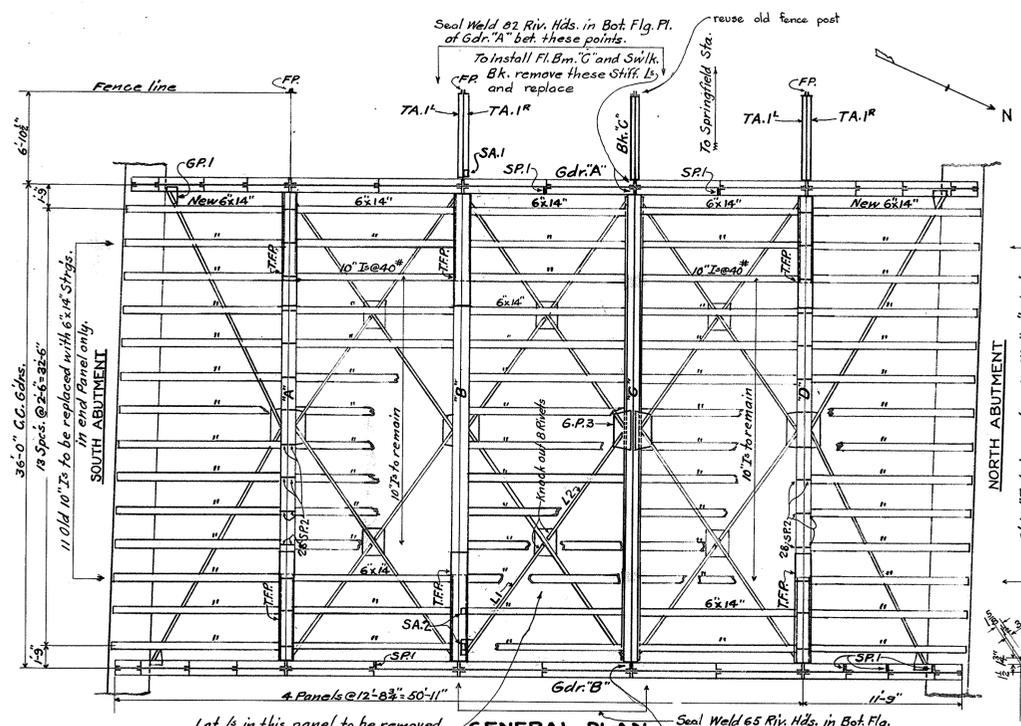
DEPT. REF. NO. 1872

DATE OF INSPECTION JANUARY 1983

DATE OF RATING MARCH 1983



WALTER J. HICKEY ASSOCIATES, INC.
275 Hancock Street
Quincy, Massachusetts 02171



NOTES: Rivets $\frac{3}{8}$ " and Holes $\frac{1}{2}$ " except as noted.
 ○ Indicates Shop driven Rivets.
 ● present Rivets in old material.
 ● old Rivets to be knocked out and redriven.
 ● open Holes in new material, except as noted otherwise.
 New Material shown in heavy lines and old in light.
 All Welding to be done in accordance with the special welding specifications of the N.Y.N.H.&H.R.R. dated May 1933.
 Heavily coated shielded arc rods to be used thru-out.
 Paint steel one shop apart of red lead in accordance with the below specifications, except pieces to be welded from which shop coat is to be omitted. Field paint all welds and pieces not bearing a shop coat, one coat of red lead as directed by Engineer.
 Both end spans of Strgs. are to be replaced by new 6x14" Wood Strgs.
 Structural steel material, workmanship & erection to be in accordance with the N.Y.N.H.&H.R.R. Gen. Specifications for Steel Railway Bridges 1929.
 Stiffener plates SP1 & SP2 to be fitted neatly against old material along sides to be welded.
 All burning of old material to be done as directed by the Engineer.
 All welds $\frac{3}{8}$ " fillet unless noted.

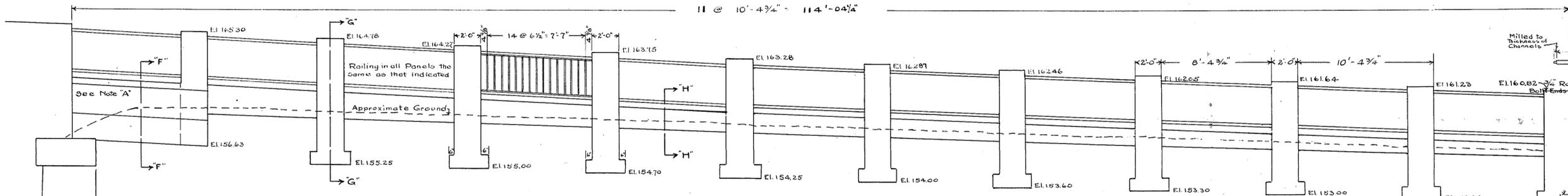
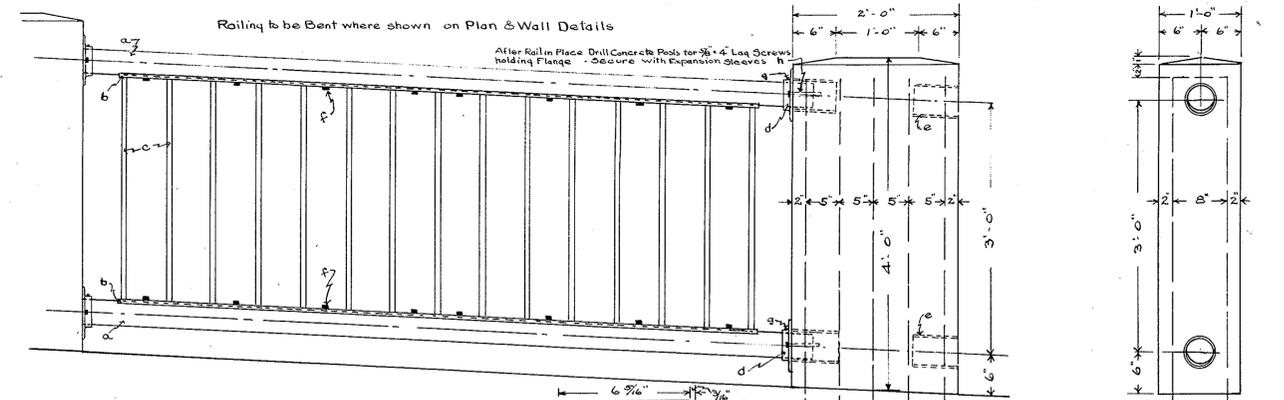
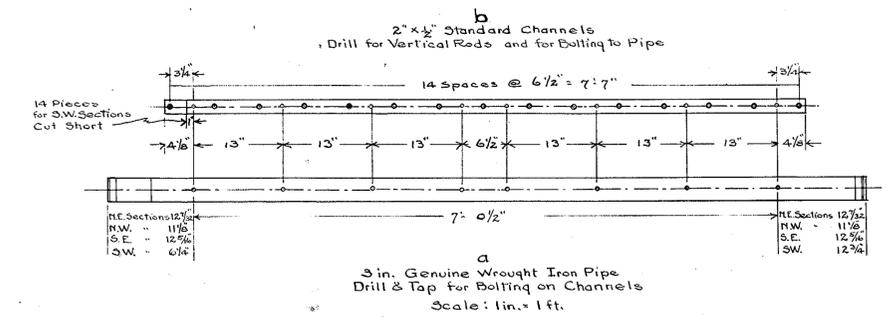
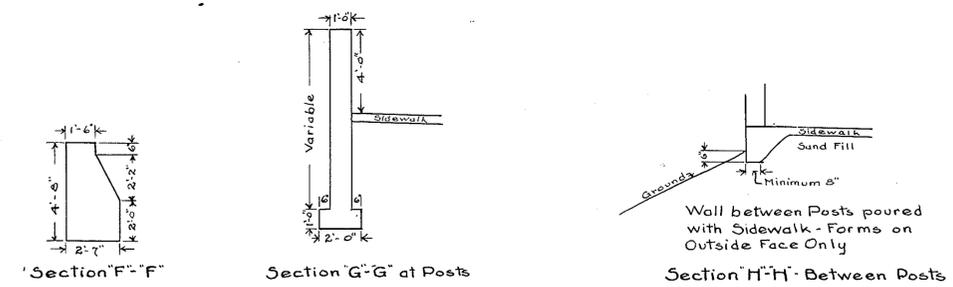
NEW MATERIAL		$\frac{3}{8}$ " BUTTON HEAD FIELD RIVETS	
QTY	DESCRIPTION	N ^o Req'd.	Grip Lgth. Ship. N ^o
1	Floorbeam	24	28"
1	Lateral L	136	24"
1	" L	8	20"
1	Sidewalk Bracket	16	25"
1	Gusset Plate	88	115"
1	"	32	50"
3	Fence Posts	75	100"
6	Top Flg. Plates	34	50"
2	Top Silk. Is		
2	Stiff. Plates	48	65"
56	Shelf Ls		
2	" Ls		

SECTION THRU RIVET AFTER SEAL WELDING	
Issue Date	Remarks
A	11-6-33 Preliminary
B	
C	
D	
E	

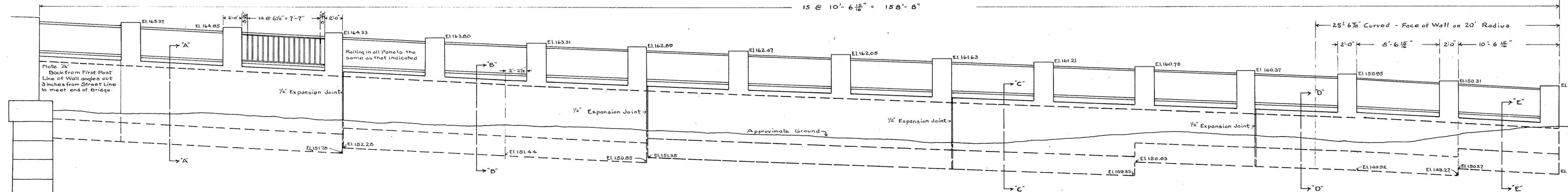
REPAIRS
 N.Y.N.H.&H.R.R.
 EAST HARTFORD-SPRINGFIELD
 BRIDGE No. 30.92
 ARMORY ST.
 0.81 MILES EAST OF
 SPRINGFIELD STA. MASS.
 Scale $\frac{1}{4}$ " = 1'-0" except as noted. NOV. 1933.
 APPROVED: _____

Made by - SJB.
 Checked by CWM

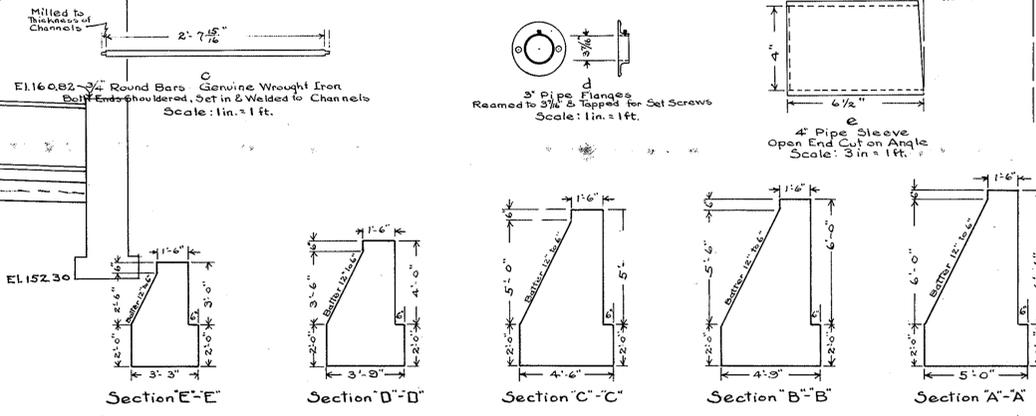
Note "B"
Top Surface of all Walls
floated Granolithic Paving to
comply with specifications for
Wearing Surface of Sidewalks



N.W. RETAINING WALL & RAILING
Scale 1/4 in. = 1 ft.



N.E. RETAINING WALL & RAILING
Scale 1/4 in. = 1 ft.



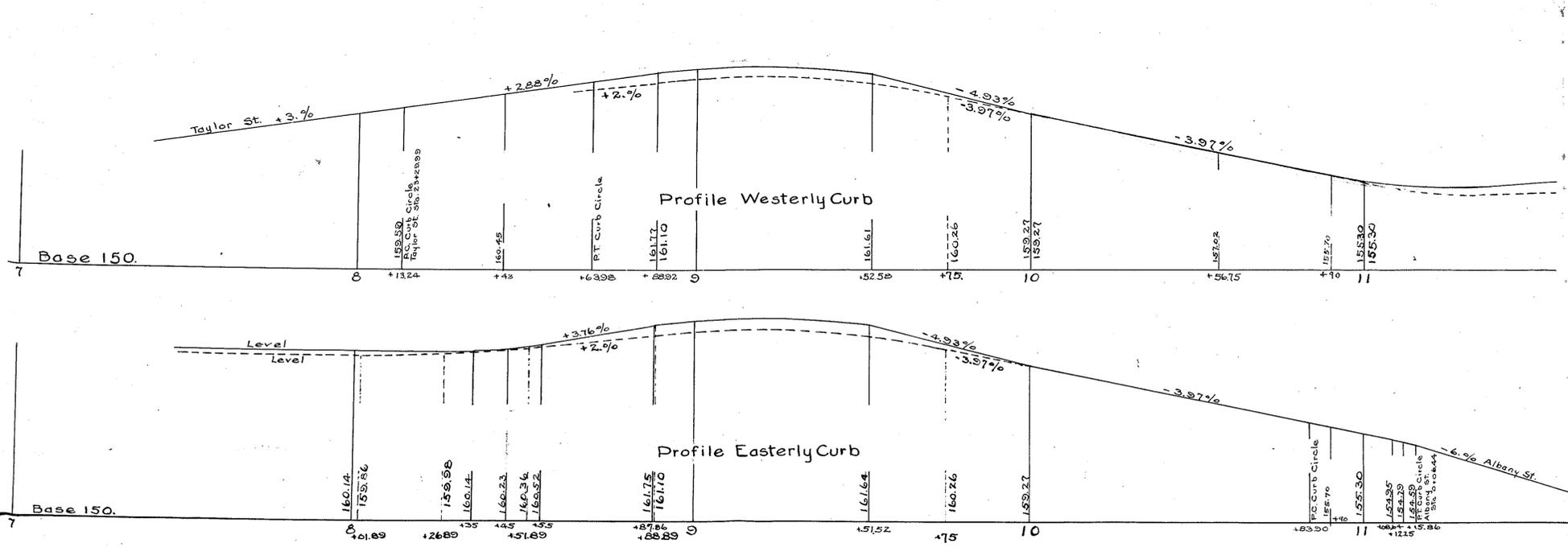
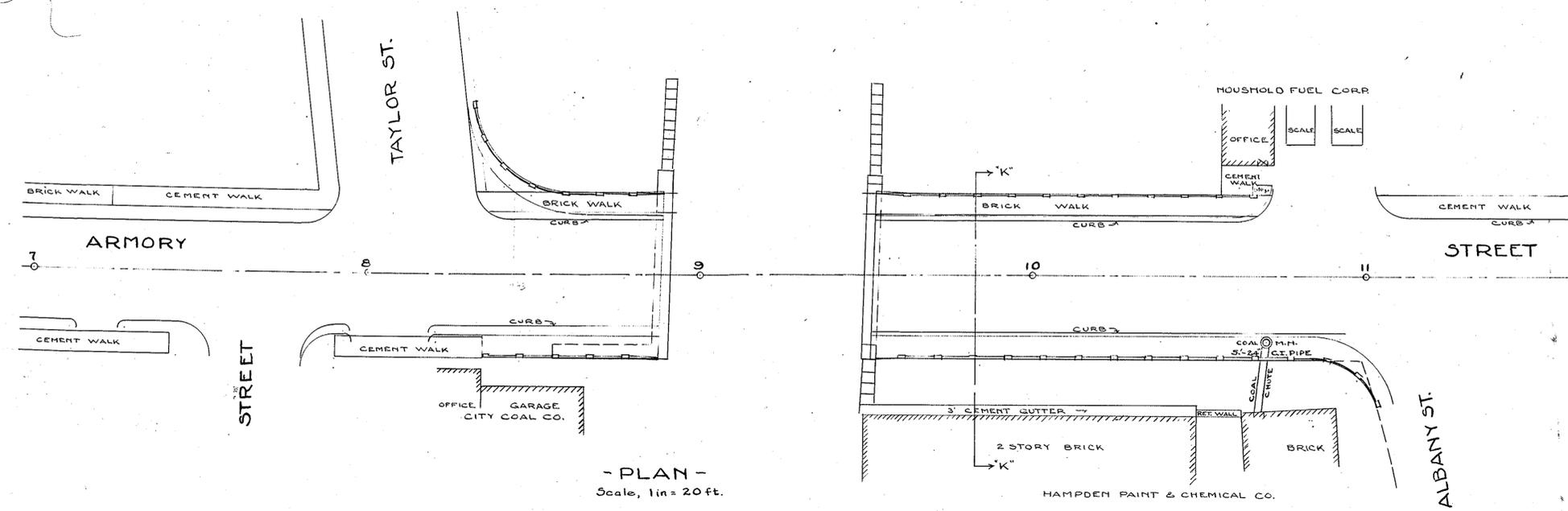
1/2" Round Bar Reinforc. Steel
Anchored in Retaining Walls.
Reinforcing to be Carried
Down to Footings of Separate
Posts without Retaining
Wall Under.

Detail of Fence Posts & Rail Assembly
Scale: 1 in. = 1 ft.

Quan.	Style	Length	Material	Mark
30	3" Pipe	9'-0 1/8"	Genuine Wrought Iron	a
22	"	8'-10 3/4"	"	a
10	"	8'-1 1/2"	"	a
14	"	8'-7 1/2"	"	a
62	2" Channels	7'-8 3/4"	Standard	b
14	"	7'-5 3/8"	"	b
543	3/4" Round Bars	2'-8 1/16"	Genuine Wrought Iron	c
152	3 Pipe Flanges	Std.	Mal. Iron	d
152	4 Pipe Sleeves	6 1/2"	Wrought Iron	e
608	1/2" Tap Bolts	1"	Standard	f
152	Set Screws	4"	Standard	g
304	1/2" Lag Screws with Expansion Sleeves	4"	Standard	h

Quantities figured for 3B Sections including four
different lengths - All Exposed Metal Surfaces to
have One Shop Coat of Red Lead.

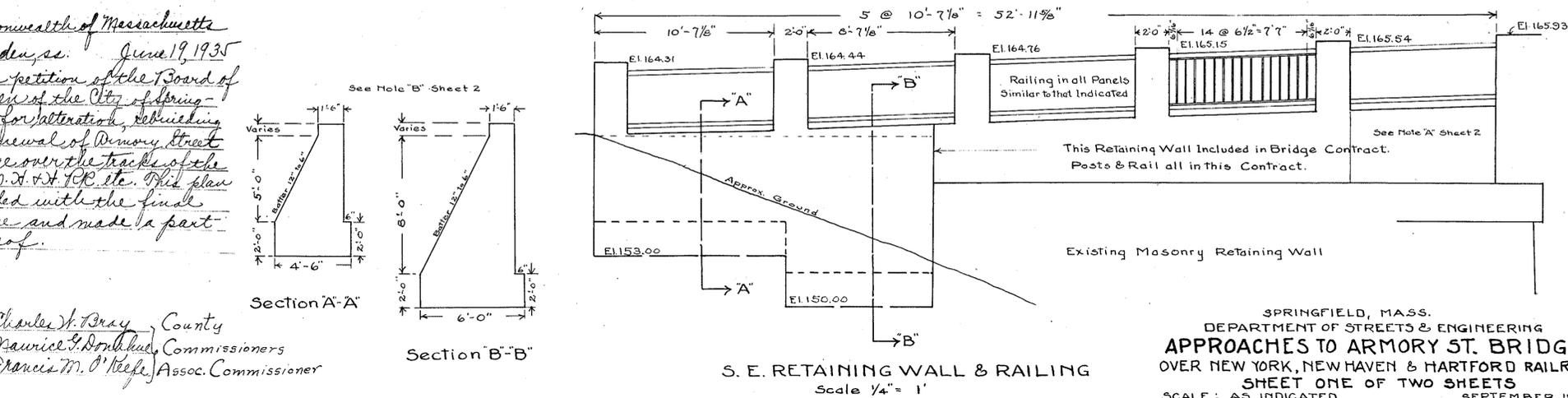
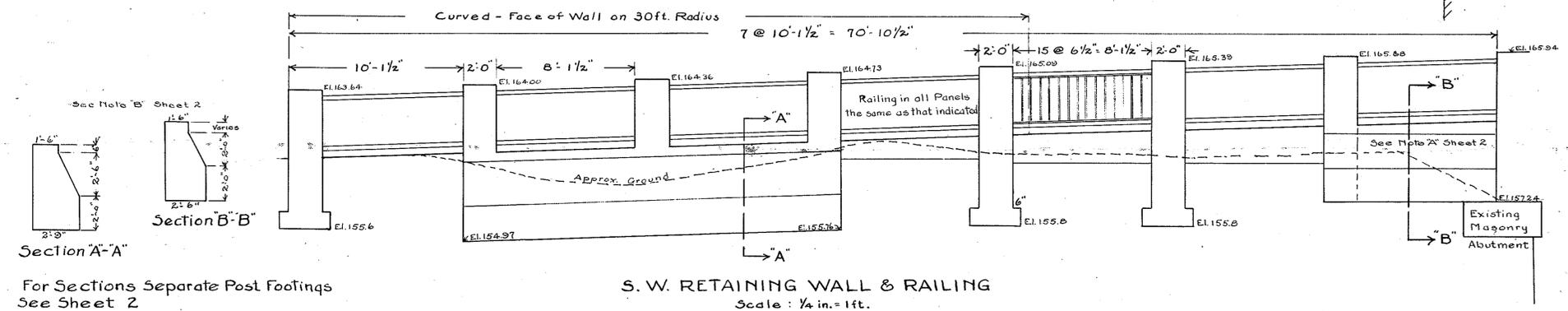
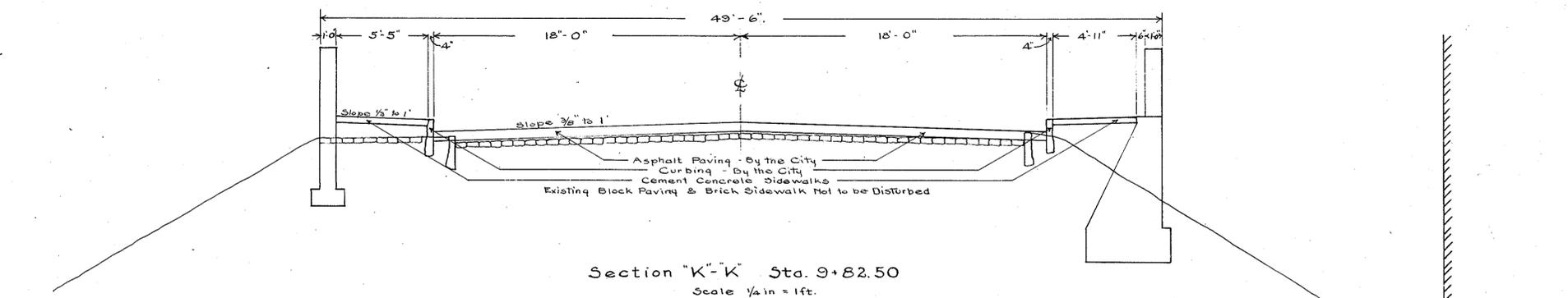
SPRINGFIELD, MASS.
DEPARTMENT OF STREETS & ENGINEERING
**APPROACHES TO ARMORY ST. BRIDGE
OVER NEW YORK, NEW HAVEN & HARTFORD RAILROAD**
SHEET TWO OF TWO SHEETS
SCALE: AS INDICATED
SEPTEMBER 1934



Profile Scales { Hor. 1 in = 20 ft. Vert. 1 in = 4 ft. Stationing Referred to Armory St and Measured Along Curb Lines Dotted Lines in Orange - Roadway Crown Grades

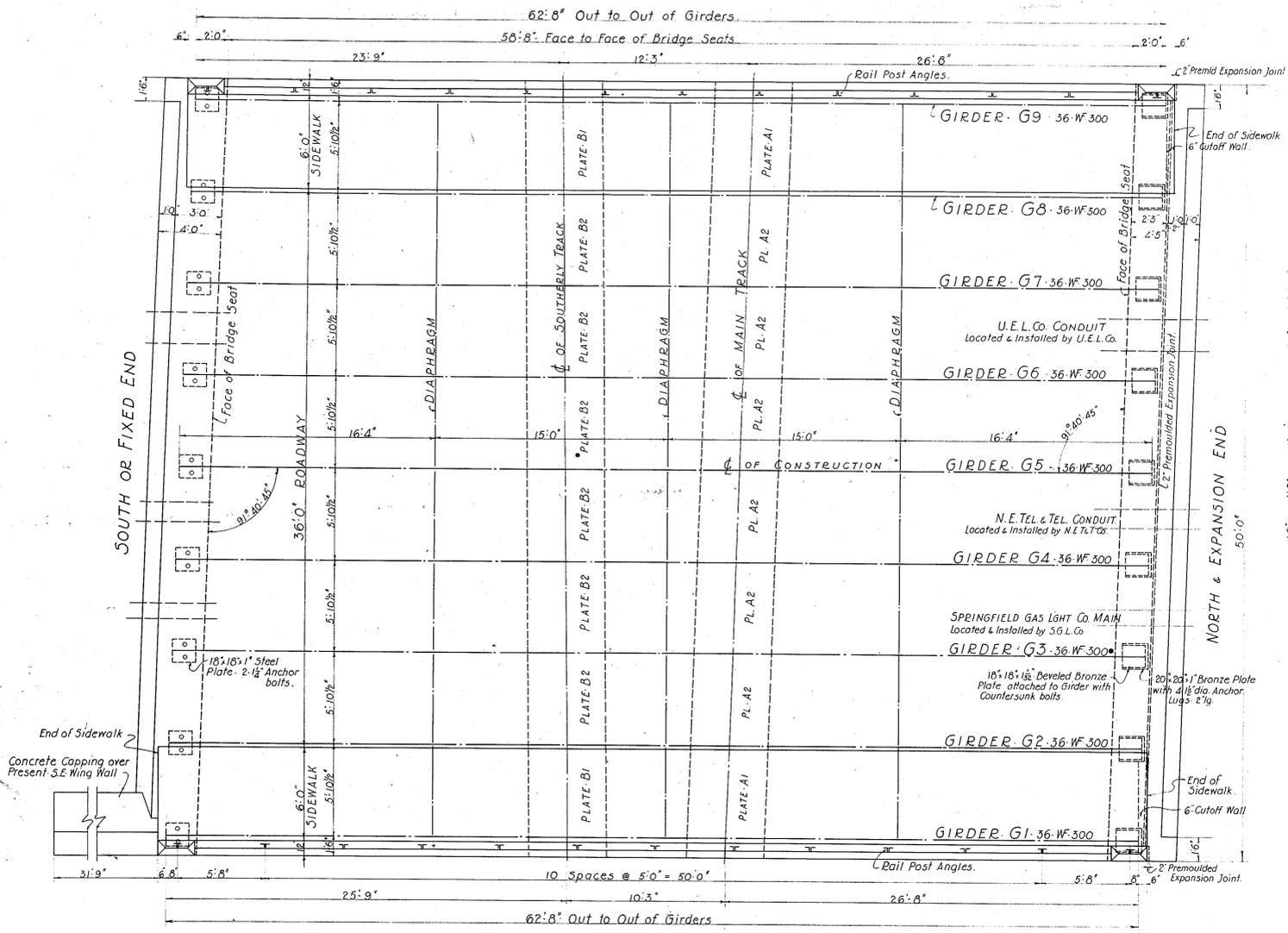
*Commonwealth of Massachusetts
Hampden, ss. June 19, 1935
On the petition of the Board of Aldermen of the City of Springfield for ratification, rebuilding or renewal of Armory Street Bridge over the tracks of the N. Y. N. H. & H. R. R. Co. etc. This plan is filed with the final decree and made a part thereof.*

Charles H. Bray, County Maurice S. Donohue, Commissioners Francis M. O'Keefe, Assoc. Commissioner

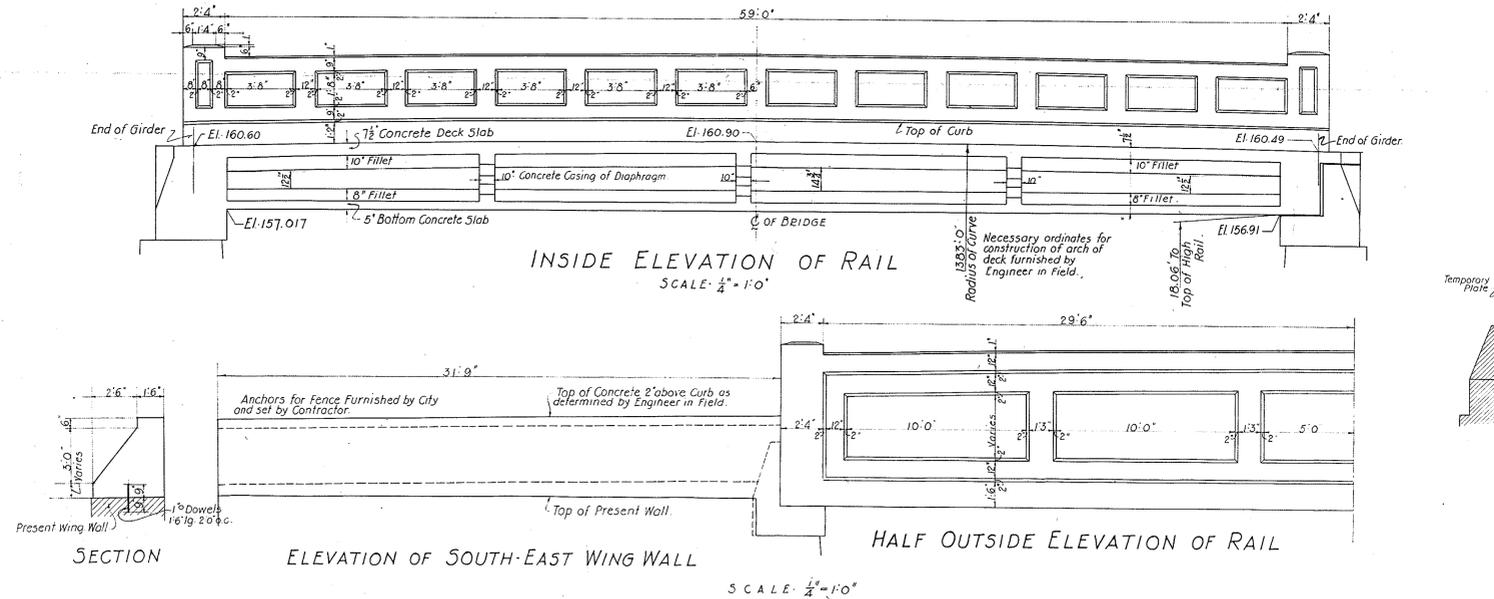


SPRINGFIELD, MASS.
DEPARTMENT OF STREETS & ENGINEERING
APPROACHES TO ARMORY ST. BRIDGE
OVER NEW YORK, NEW HAVEN & HARTFORD RAILROAD
SHEET ONE OF TWO SHEETS
SCALE: AS INDICATED
SEPTEMBER 1934

CR. NO. 5-24-26



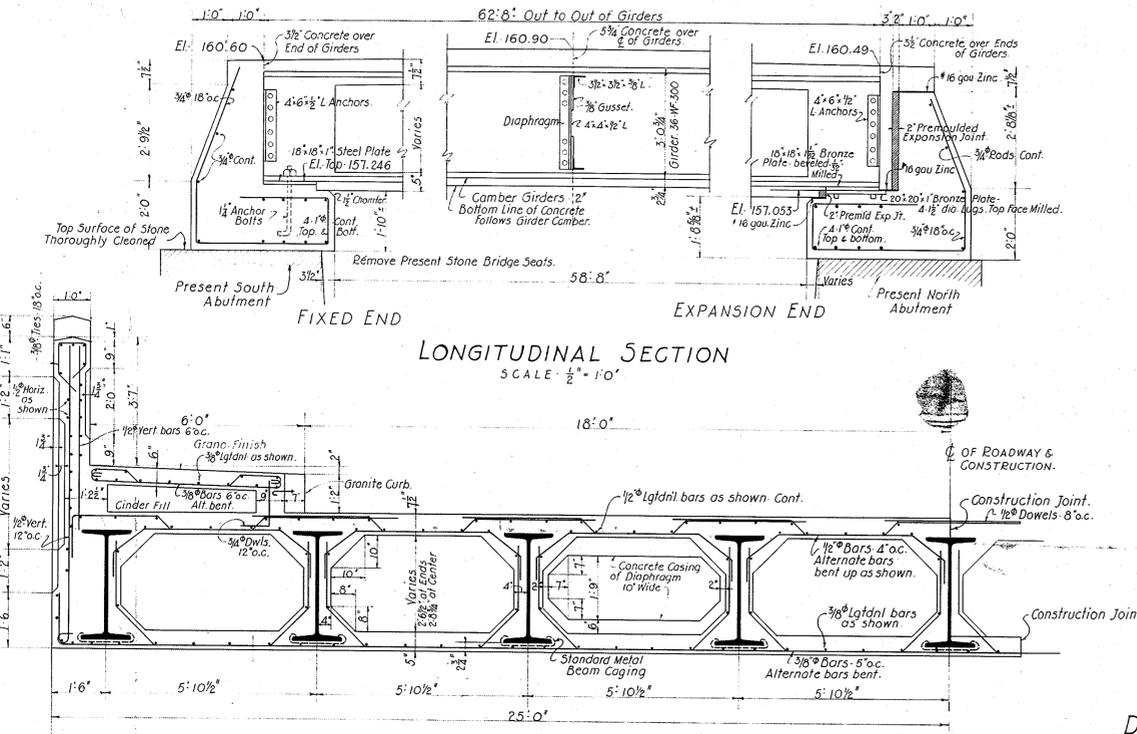
PLAN OF BRIDGE
SCALE 1/4" = 1'-0"



INSIDE ELEVATION OF RAIL
SCALE 1/4" = 1'-0"

ELEVATION OF SOUTH-EAST WING WALL
SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

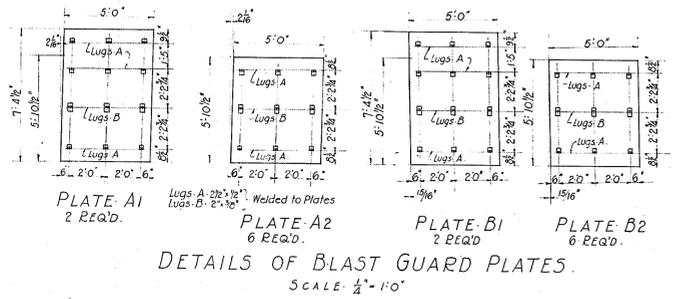


LONGITUDINAL SECTION
SCALE 1/2" = 1'-0"

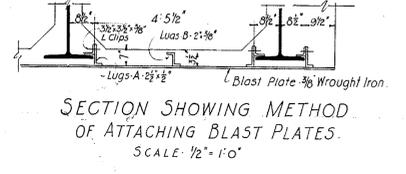
CROSS SECTION AT CENTER
SCALE 1/2" = 1'-0"

DETAIL OF DIAPHRAGM
SCALE 1/2" = 1'-0"

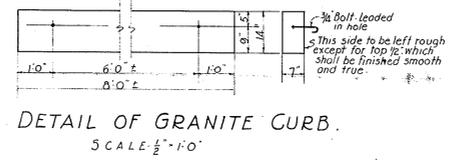
DETAIL OF RAIL POST ANGLES
SCALE 1/2" = 1'-0"



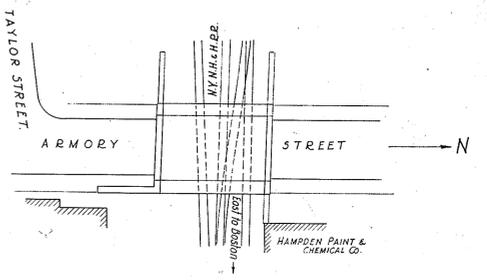
DETAILS OF BLAST GUARD PLATES
SCALE 1/2" = 1'-0"



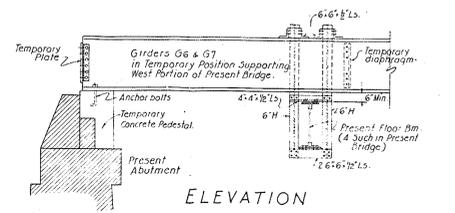
SECTION SHOWING METHOD OF ATTACHING BLAST PLATES
SCALE 1/2" = 1'-0"



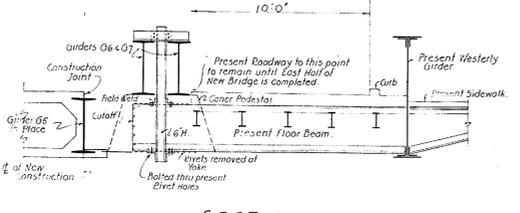
DETAIL OF GRANITE CURB
SCALE 1/2" = 1'-0"



LOCATION PLAN
Scale 1" = 40'-0"



ELEVATION



SECTION

SUGGESTED METHOD OF MAINTAINING TRAFFIC DURING CONSTRUCTION
SCALE 1/2" = 1'-0"

PLAN

Commonwealth of Massachusetts
 Hampden, ss: June 19, 1935
 In the presence of the Board of Aldermen of the City of Springfield, for alteration, reconstruction or removal of Armory Street Bridge over the tracks of the N.Y. N.H. & H.R.R. etc. This plan is filed with the final decree and made a part thereof.

Charles H. Parry County
 Maurice H. DeGaulle Commissioners
 Francis M. O'Keefe Assoc. Commissioner

CITY OF SPRINGFIELD - MASS.
 DEPARTMENT OF STREETS AND ENGINEERING
 ARMORY STREET BRIDGE
 OVER
 NEW YORK, NEW HAVEN & HARTFORD R.R.
 SCALE - AS SHOWN SEPTEMBER, 1934
 APPROVED - APPROVED -

CHIEF ENGINEER N.Y.N.H.&H.R.R. SUPERINTENDENT DEPT. OF STREETS & ENG.