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STATE OF ILLINOIS
COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

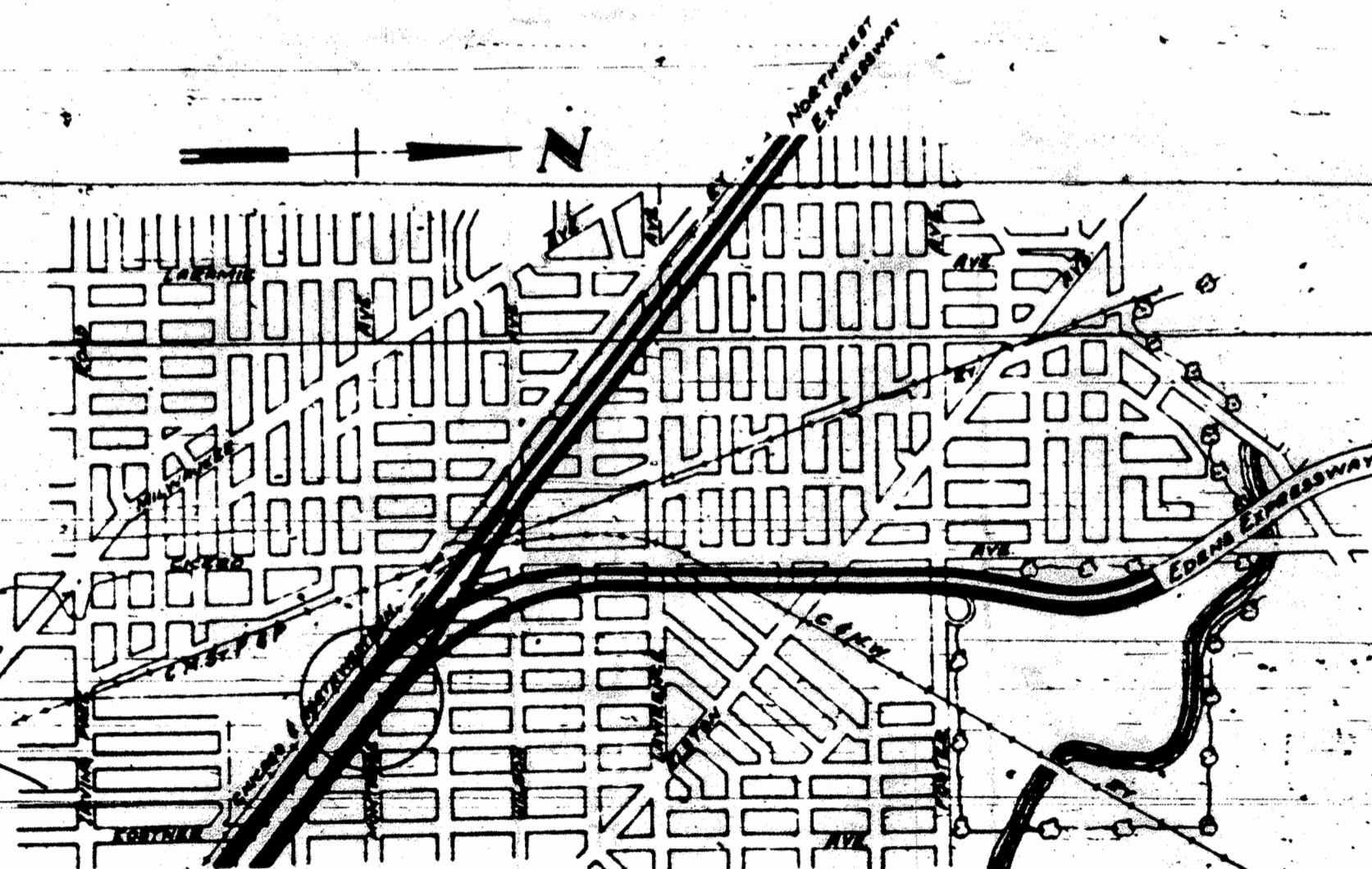
PLAN 1" = 80 FT.
PROFILE VERT. 1" = 10 FT.
CROSS SECTIONS 1" = 5 FT. VERT.
CROSS SECTIONS 1" = 10 FT. HOR.

F.A.I. 94

F.A. INTERSTATE ROUTE - 2 - PROJECT 1-02-2(10)
MONTROSE AVENUE GRADE SEPARATION
OVER
EDENS AND NORTHWEST EXPRESSWAY INTERCHANGE
SECTION 263-0101.3-15D

INFORMATION ONLY

SECTION 263-0101.3-15D
INCLUDES EAST AND WEST ABUTMENTS, WITH WINGWALLS, EAST AND WEST PIER AND UTILITY ADJUSTMENTS FOR THE CONSTRUCTION OF A 3 SPAN (154'-0", 154'-0", 154'-0") POST STRESSED CONCRETE GIRDER BRIDGE ON MONTROSE AVENUE OVER EDENS AND NORTHWEST EXPRESSWAY INTERCHANGE. STA. 4+18.25, THE INTERSECTION BETWEEN THE E OF MONTROSE AVENUE AND THE E OF THE EAST PIER, BEING A POINT 385 FEET WEST OF E OF KILBOURNE AVE. IN CHICAGO.



QUANTITY	UNIT	ITEM
2,578	CU. YDS.	CLASS "X" CONCRETE
2,774	CU. YDS.	CLASS "XX" CONCRETE
605,646	LBS.	REINFORCEMENT BARS
LUMP SUM		PRESTRESSING STEEL
100,588	LBS.	FURNISHING AND ERECTING STRUCTURAL STEEL
1,025	LIN. FT.	FURNISHING CREOSOTED PILES, 20.1' TO 38'
1,025	LIN. FT.	DRIVING TIMBER PILES
1,214	LIN. FT.	METAL HANDRAIL - TYPE "A"
570	LIN. FT.	6" DIA. GALVANIZED PERF. CORRUG. METAL PIPE
6,690	CU. YDS.	CLASS "A" EXCAVATION FOR STRUCTURES
3,700	CU. YDS.	POROUS GRANULAR EMBANKMENT
1,920	LIN. FT.	2 1/2" RIGID STEEL CONDUIT
538.5	GALS.	BITUMINOUS MATERIALS (PRIME COAT)
462.1	TONS	BITUMINOUS CONCRETE BINDER COURSE
384.4	TONS	BITUMINOUS CONCRETE SURFACE COURSE - FINE DENSE - GRADED AGGREGATE - TYPE, SUBCLASS T-1
541	SQ. YDS.	PORTLAND CEMENT CONCRETE PAVEMENT (16 1/2" - 10 1/2" - 16 1/2")
877	LIN. FT.	COMBINATION CONCRETE CURB & GUTTER, TYPE 3
602	SQ. FT.	LONGITUDINAL CURB EXPANSION JOINTS
2	EACH	NAME PLATES
9,584	SQ. FT.	SILICONE TREATMENT
2	TONS	LEVELING BINDER (HAND METHOD)
4	TONS	AGGREGATE (PRIME COAT)
3,603	SQ. YDS.	EXPENDABLE PORTLAND CEMENT CONCRETE PAVEMENT (8 INCH)
932	SQ. YDS.	PORTLAND CEMENT CONCRETE BASE COURSE (9 INCH)
702	SQ. YDS.	PORTLAND CEMENT CONCRETE PAVEMENT (10 INCH)
8,849	SQ. FT.	PORTLAND CEMENT CONCRETE SIDEWALK (5 INCH)
506	SQ. FT.	PORTLAND CEMENT CONCRETE SIDEWALK (8 INCH)
37	SQ. YDS.	CORRUGATED WARNING STRIP
65	LIN. FT.	CONCRETE MEDIAN, TYPE 4
50	LIN. FT.	CONCRETE MEDIAN, FLUSH
893	LIN. FT.	CONCRETE CURB, TYPE 4
30	LIN. FT.	COMBINATION CONC. CURB & GUTTER, MODIFIED, TYPE 3
290	LIN. FT.	COMBINATION CONC. CURB & GUTTER, TYPE 32
761	SQ. YDS.	PAVEMENT FABRIC
2	EACH	SECTION MARKERS
43	TONS	SUB-BASE - GRANULAR MATERIAL, TYPE "A"
581	IN. DIA.	TREE REMOVAL (6 INCH TO 15 INCH DIA.) - SPECIAL
410	IN. DIA.	TREE REMOVAL (OVER 15 INCH DIA.) - SPECIAL
128,163	CU. YDS.	SPECIAL EXCAVATION
1,033	UNITS	EMBANKMENT SPRINKLING
8	MFT. BM.	MISCELLANEOUS TIMBER
105	CU. YDS.	TOP SOIL
2,860	SQ. YDS.	SODDING
0.1	TONS	FERTILIZER NUTRIENTS
25	UNITS	SUPPLEMENTAL WATERING
470	LIN. FT.	WOOD GUARD FENCE REMOVAL

CONT'D

260	LIN. FT.	ERECTING WOOD GUARD FENCE
LUMP SUM		TEMPORARY STEEL SHEET PILING
0.4	ACRES	TEMPORARY SEEDING
0.8	TONS	MULCH
495	LIN. FT.	STANDARD BARRICADES
5	EACH	CATCH BASINS, TYPE A2, 4 FT. DIA. WITH TYPE 5 FRAME WITH OPEN LID.
1	EACH	CATCH BASINS, TYPE A2, 4 FT. DIA. WITH TYPE 32 FRAME AND GRATE.
112	LIN. FT.	STORM SEWER, TYPE 2, 10 INCH
26	LIN. FT.	STORM SEWER, TYPE 2, 12 INCH
2	EACH	FILLING EXISTING INLETS
3	EACH	FILLING EXISTING CATCH BASINS
1	EACH	FILLING EXISTING MANHOLES
3	EACH	MANHOLES TO BE ADJUSTED
2	EACH	FRAMES AND GRATES TO BE ADJUSTED
2	EACH	CAST IRON FRAME, TYPE 5, INCLUDING CLOSED LID
1	EACH	FILLING EXISTING DRAINS & SEWERS (12" OR LESS)
1	EACH	PLUGGING EXISTING DRAINS & SEWERS (OVER 12 INCHES)
2,000	LIN. FT.	3 1/2 INCH ASBESTOS CEMENT CONDUIT
300	LIN. FT.	4-3 1/2 INCH ASBESTOS CEMENT CONDUIT (ENCASED IN CONCRETE)
225	LIN. FT.	2-3 1/2 INCH ASBESTOS CEMENT CONDUIT (ENCASED IN CONCRETE)
6	EACH	MANHOLES, CITY OF CHICAGO, TYPE IIIA3A
107	CU. YDS.	TRENCH BACKFILL
26	SQ. YDS.	PAVEMENT REPLACEMENT - ENTIRE
2	EACH	10" X 20" X 8" BALLAST HOUSING
30	LIN. FT.	2" RIGID STEEL CONDUIT

LENGTH OF STRUCTURE 467.14 FT. (0.086 MILES)
LENGTH OF ROADWAY 329.86 FT. (0.062 MILES)
LENGTH OF CONTRACT 797.00 FT. (0.150 MILES)
LENGTH ALONG EXPRESSWAY 480.00 FT. (0.091 MILES)

COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

APPROVED: *July 17, 1957*
M.F. Page
CHIEF HIGHWAY ENGINEER

APPROVED: *July 17, 1957*
Eng. J. Stark
ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

APPROVED: _____

CHIEF HIGHWAY ENGINEER: _____ DATE: _____

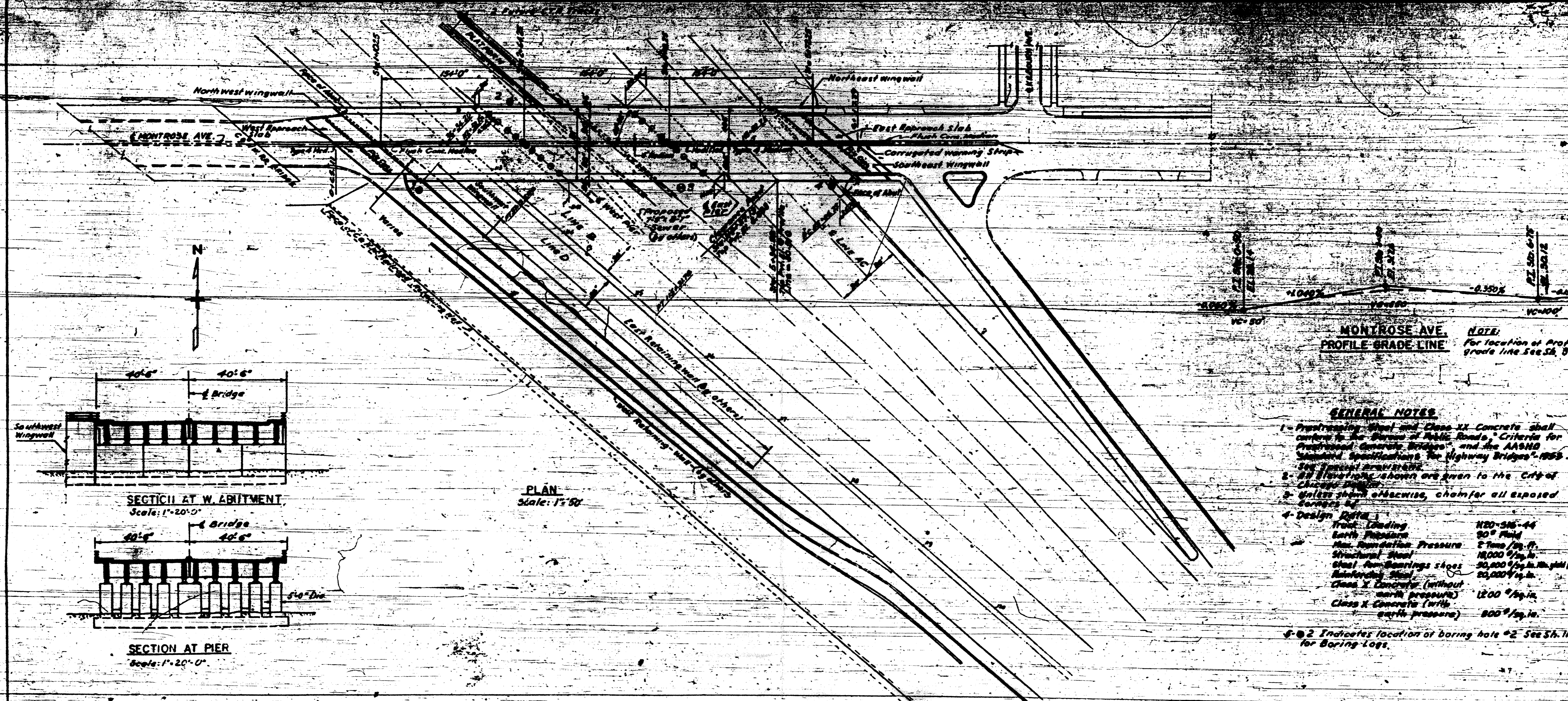
APPROVED: _____

DIRECTOR: _____ DATE: _____

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED: _____

DIVISION ENGINEER: _____ DATE: _____

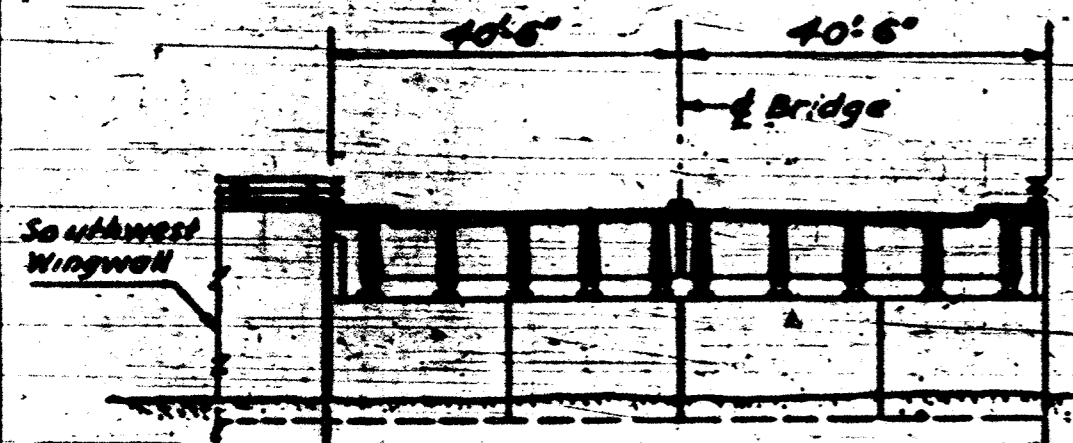


MONTROSE AVE. PROFILE GRADE LINE
 NOTE: For location of Profile grade line See Sh. 5

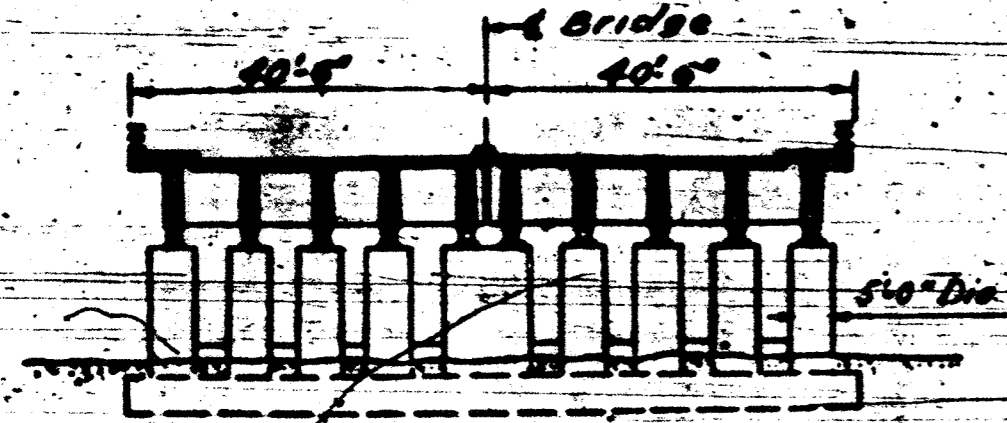
GENERAL NOTES

- 1- Prestressing Steel and Class XX Concrete shall conform to the Bureau of Public Roads "Criteria for Prestressed Concrete Bridges" and the AASHTO Standard Specifications for Highway Bridges - 1959. See Typical Drawings.
- 2- All elevations shown are given to the City of Chicago Datum.
- 3- Unless shown otherwise, chamfer all exposed corners.
- 4- Design Data:

Truck Loading	HS-20-44
Earth Pressure	20° Fold
Max. Foundation Pressure	2 Tons / sq. ft.
Structural Steel	18,000 / sq. in.
Steel for Bearings shoes	30,000 / sq. in. Min. yield point
Reinforcing Steel	60,000 / sq. in.
Class X Concrete (without earth pressure)	1200 / sq. in.
Class X Concrete (with earth pressure)	800 / sq. in.
- 5- 2 Indicates location of boring hole #2 See Sh. 11 for Boring Logs.

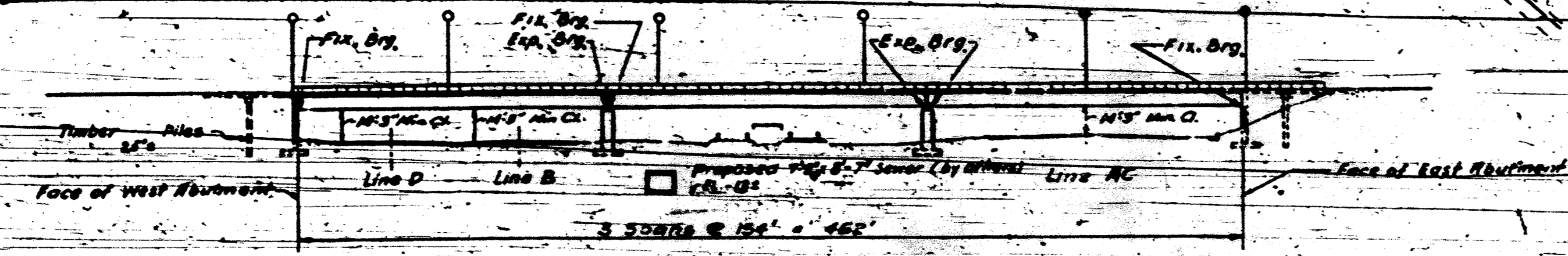


SECTION AT W. ABUTMENT
Scale: 1"=20'-0"



SECTION AT PIER
Scale: 1"=20'-0"

PLAN
Scale: 1"=50'



ELEVATION
(LOOKING NORTH)
Scale: 1"=50'-0"

DESIGN: H.S.
 CHECK: A.S.
 APPROVED: M.S.

FAI 94

DATE	BY	REVISIONS

DEPARTMENT OF HIGHWAYS
 OF THE
 COUNTY OF COOK
 DANIEL EYER, Mayor of Cook County
 WILLIAM J. HORTNER, Superintendent of Highways

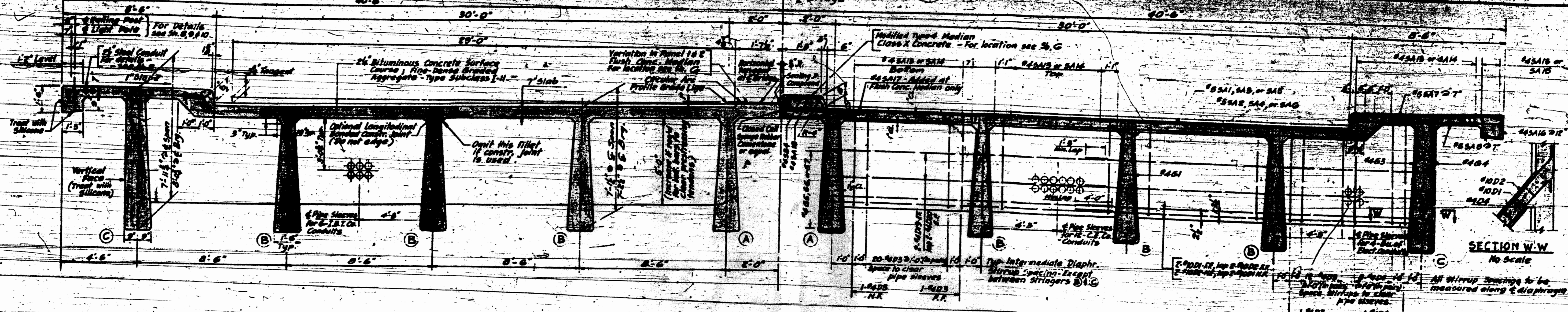
MONTROSE AVE. GRADE SEPARATION OVER EDEN'S & NORTHWEST EXPRESSWAY INTERCHANGE

GENERAL PLAN & ELEVATION

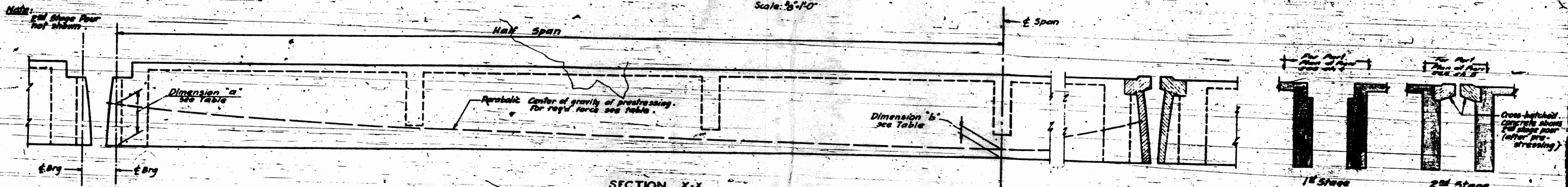
SECTION 283-0013-102
 SHEET NO. 2
 DATE 3-3-57

THE PRELOAD CO. INC.
 21 EAST 37th STREET
 NEW YORK 17, N.Y.

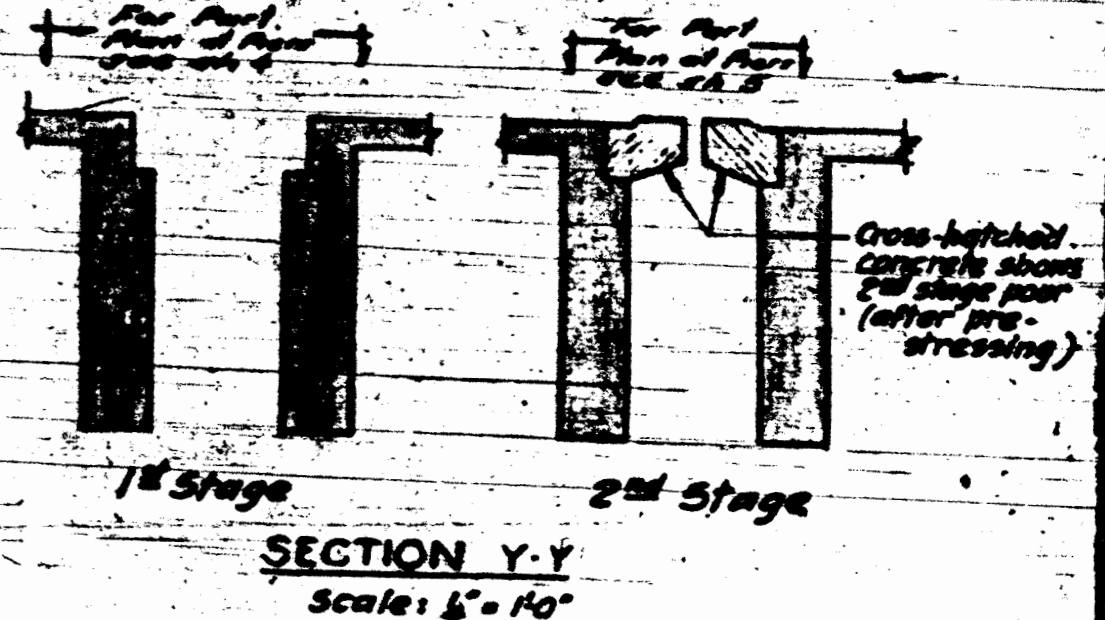
CONSULTING ENGINEER



SECTION A-A
Scale: 3/8" = 1'-0"



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

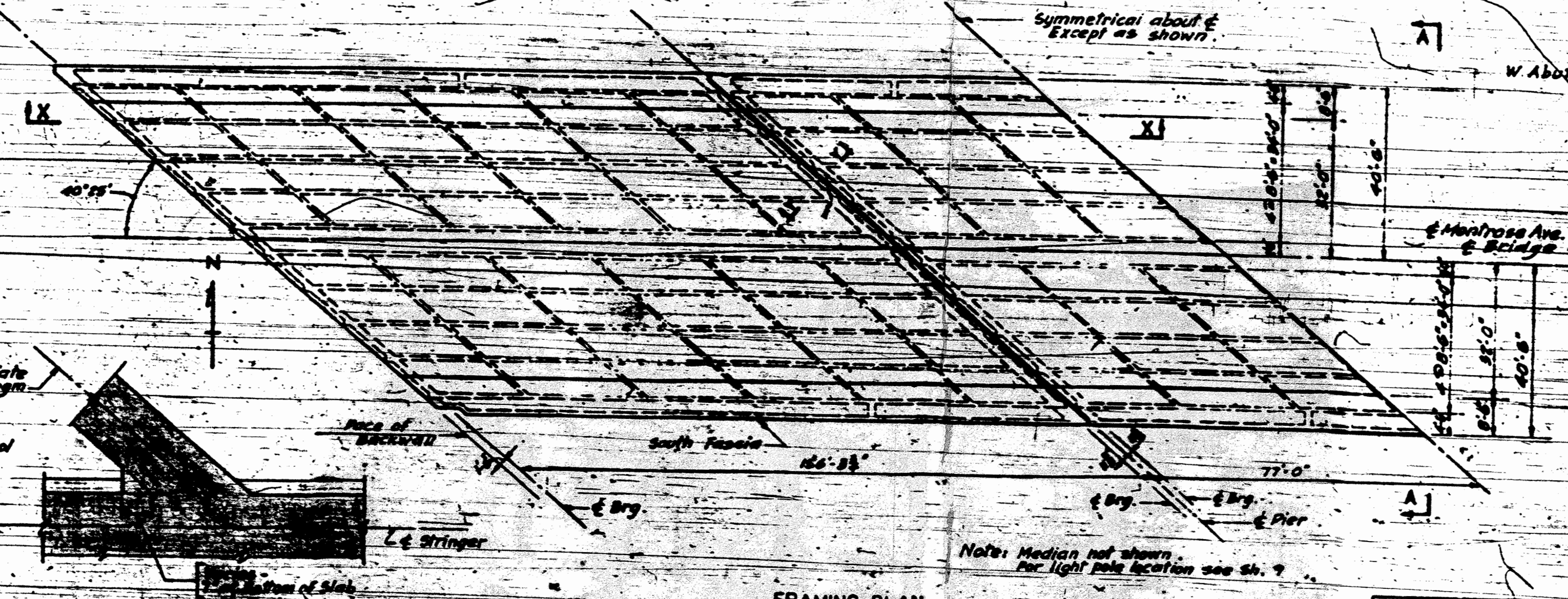


SECTION Y-Y
Scale: 1/2" = 1'-0"

PRESTRESS DATA

Stringer	Force in Reinforcing Steel			Dimension	
	Min. Endal	Max. Endal	Ultimate	a"	b"
A	2200*	1700*	2930*	57"	6"
B	3350*	1800*	3300*	64"	6"
C	3500*	1800*	3230*	67"	6"

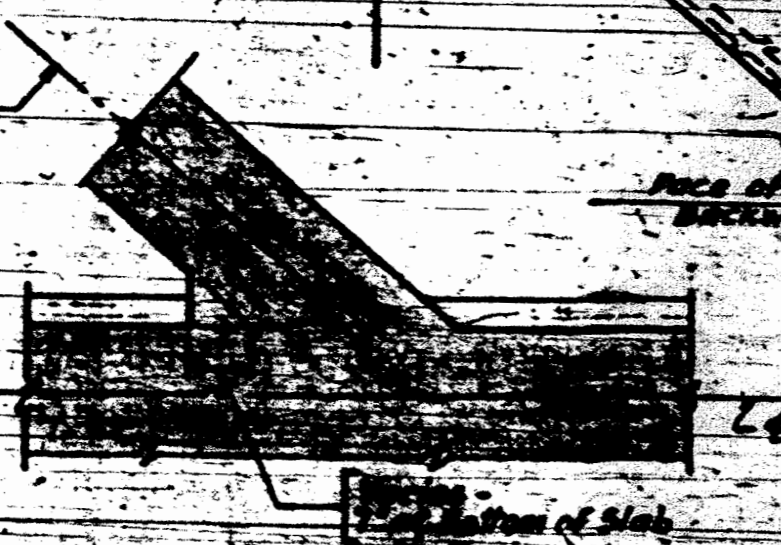
*Force shown in kips are required for a centerline of span. For stringer location see Sect A-A



FRAMING PLAN
Scale: 1" = 20'-0"



PIPE SLEEVE DETAIL
Scale: 1/2" = 1'-0"



DIAPHRAGM CHAMFER DETAIL
Scale: 1/2" = 1'-0"

KEY PLAN & SUGGESTED SUPERSTRUCTURE CONSTRUCTION SEQUENCE

- NOTE 1: For general notes see Sh. 8
 2- For B.M. of Members and Bar List see Sh. 11.
 3- Concrete in Superstructure to be Class X-X Concrete except Class C Concrete in diaphragms & median diaphragms located and prestressing tendons shown, see Sh. 4 and Sh. 5.
 4- Median 1" top, 2" bottom, 10" clear face, 12" face thickness.

DESIGN: N. W.
 DRAWN: J. P.
 CHECKED: E. M.
 APPROVED: M. S.

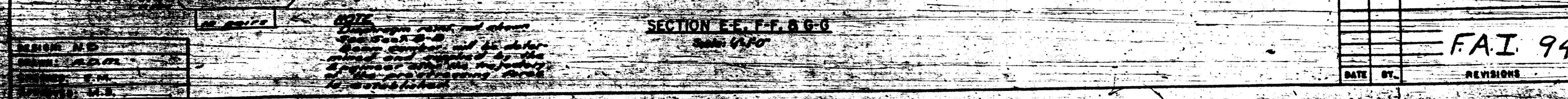
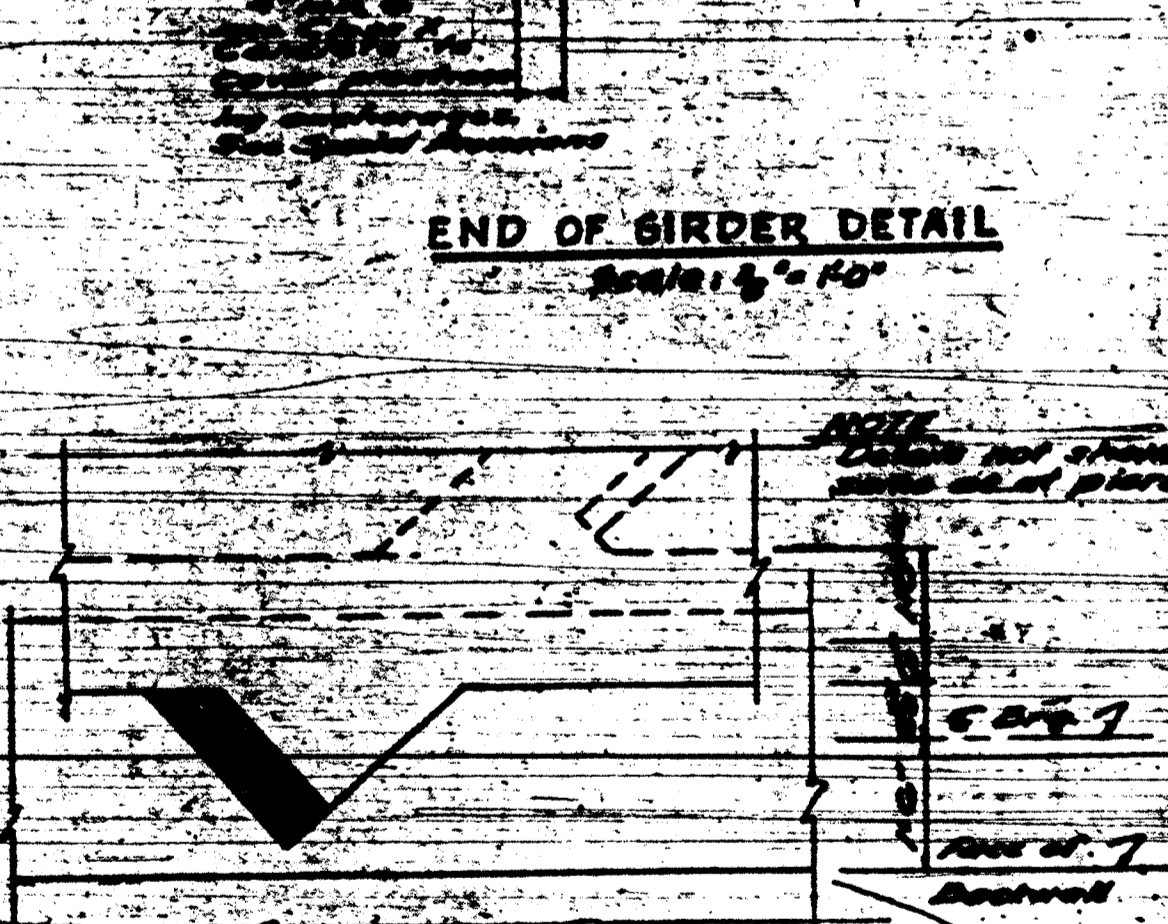
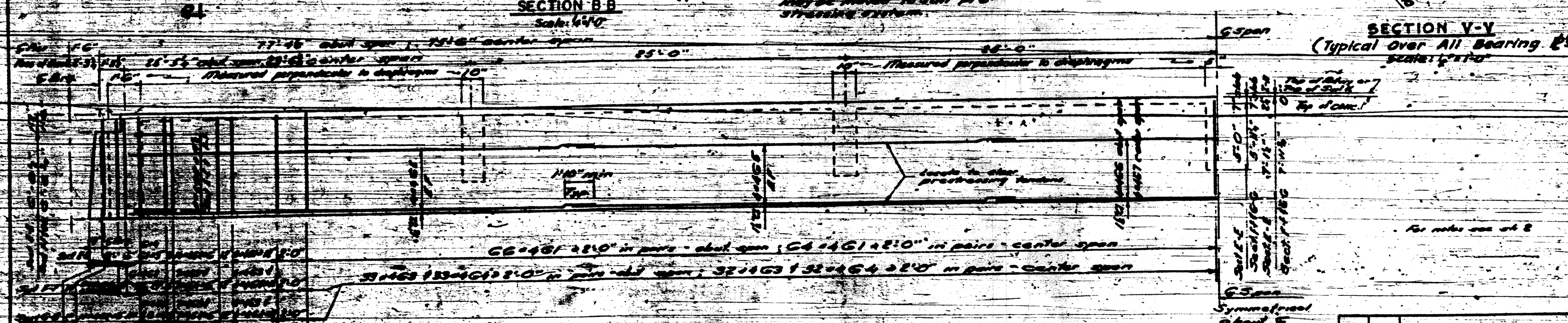
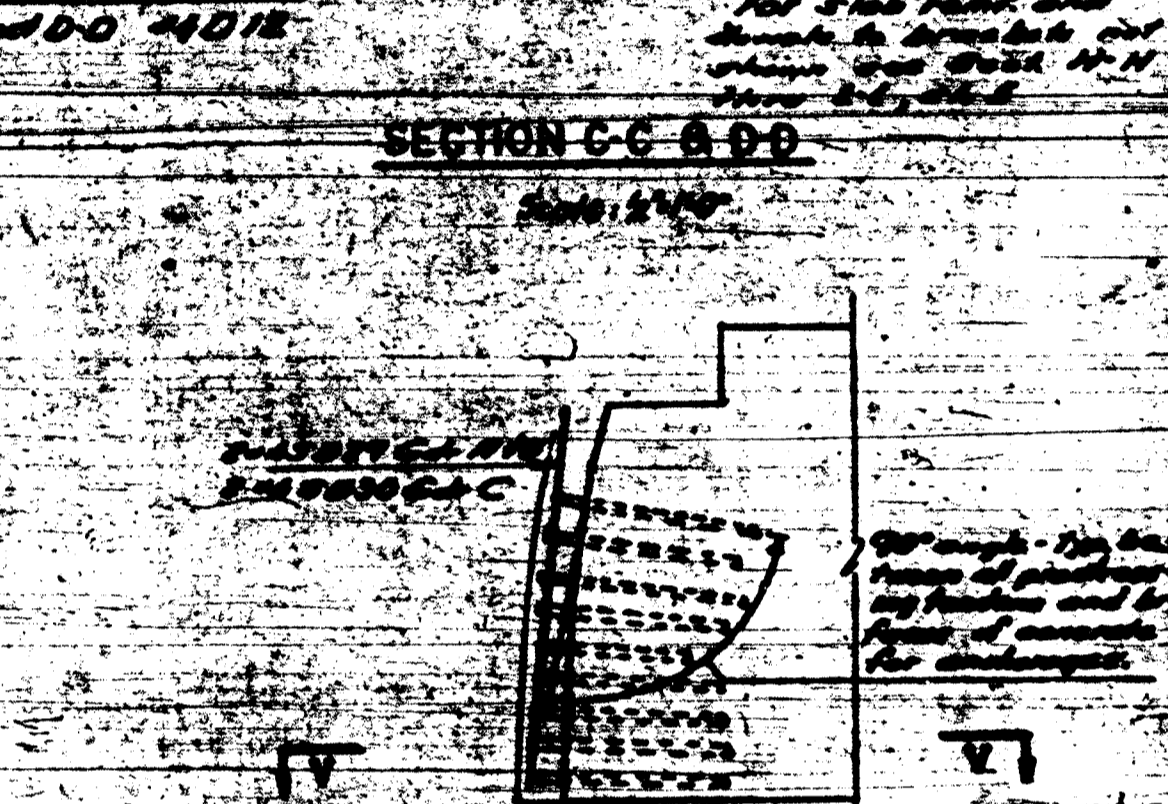
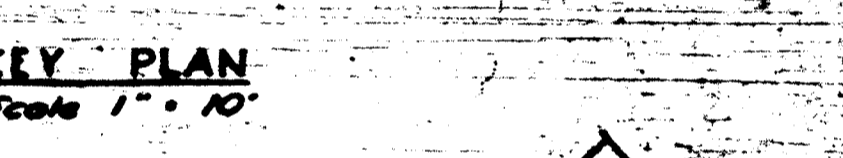
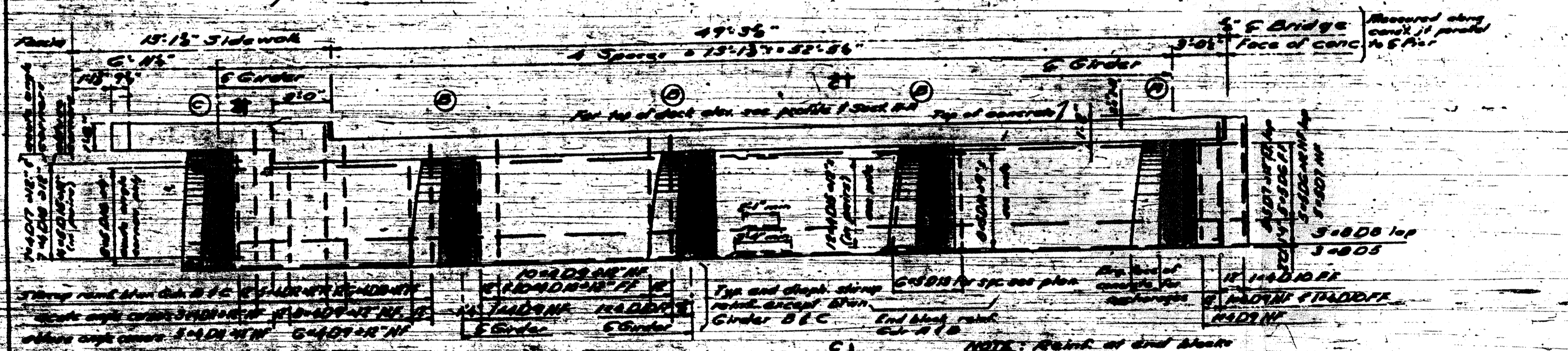
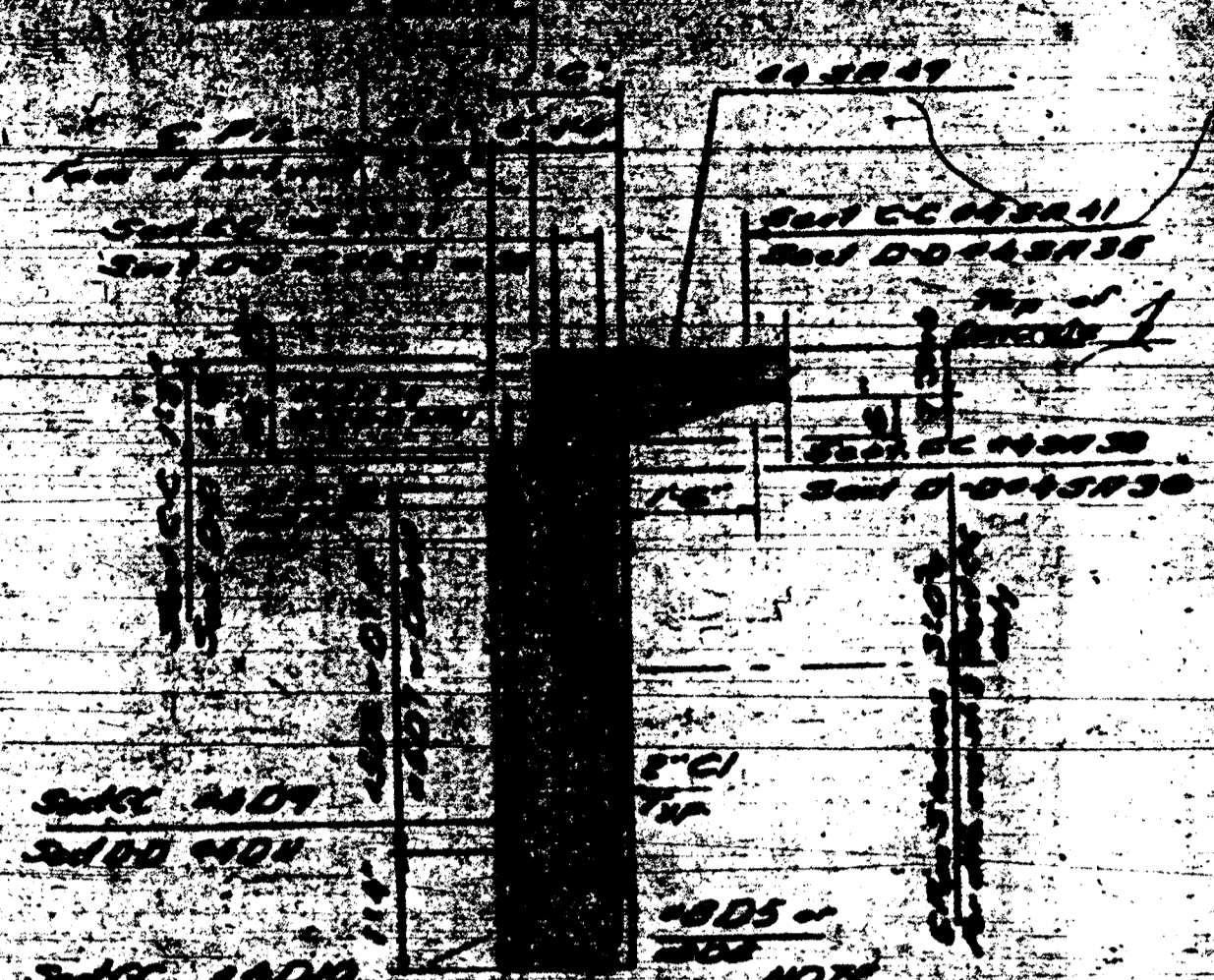
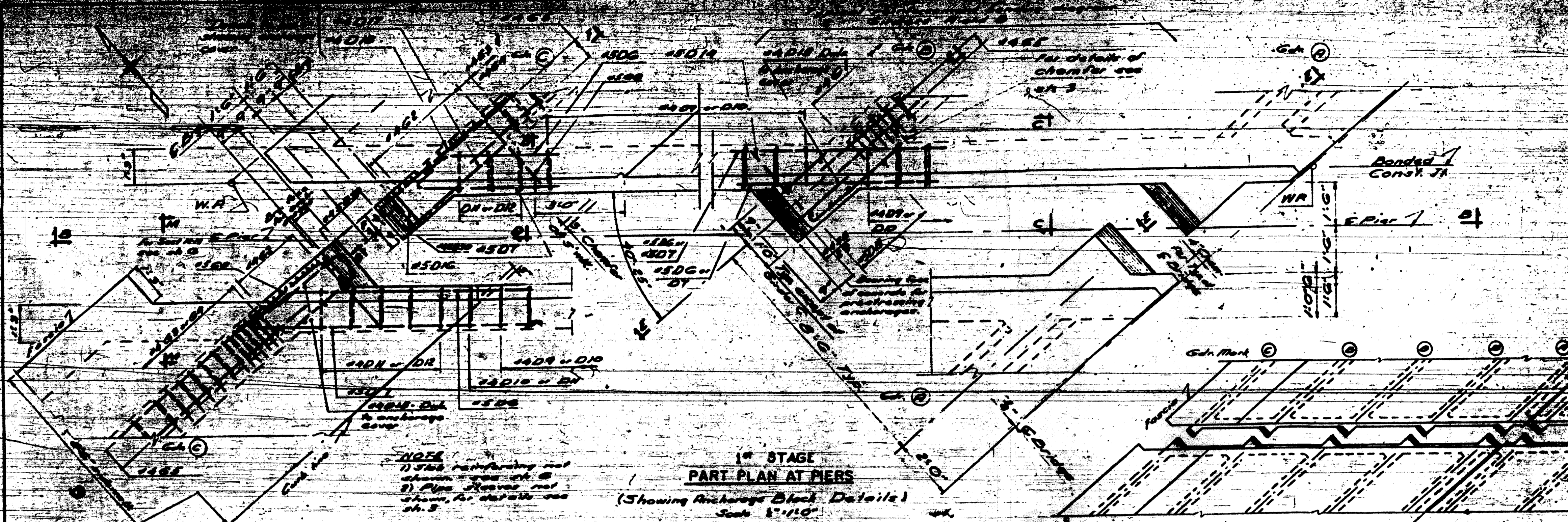
DATE BY REVISIONS

DEPARTMENT OF HIGHWAYS
 OF THE
 COUNTY OF COOK
 MONROSE AVE. GRADE SEPARATION
 OVER
 EDENS & NORTH W. ST. EXPRESSWAY INTERCHANGE
 SUPERSTRUCTURE DETAILS

THE PRELAD CO. INC.
 28 EAST 57 STREET

CONSULTING ENGINEERS
 100 N. W. 10th St., N.W.

FAI 94



DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK

DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS

WILLIAM WERTNER
COMMISSIONER OF HIGHWAYS

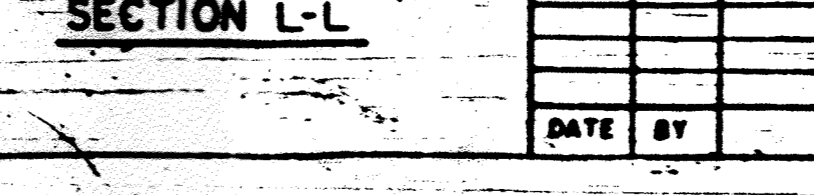
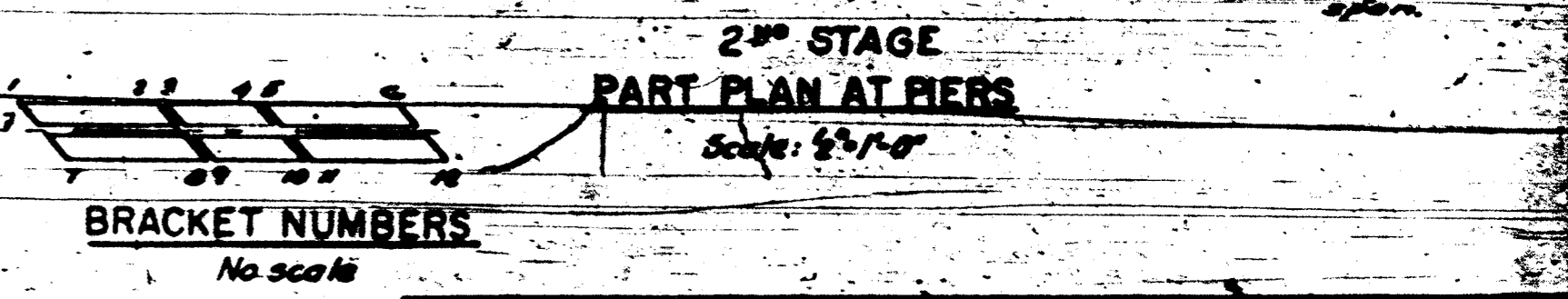
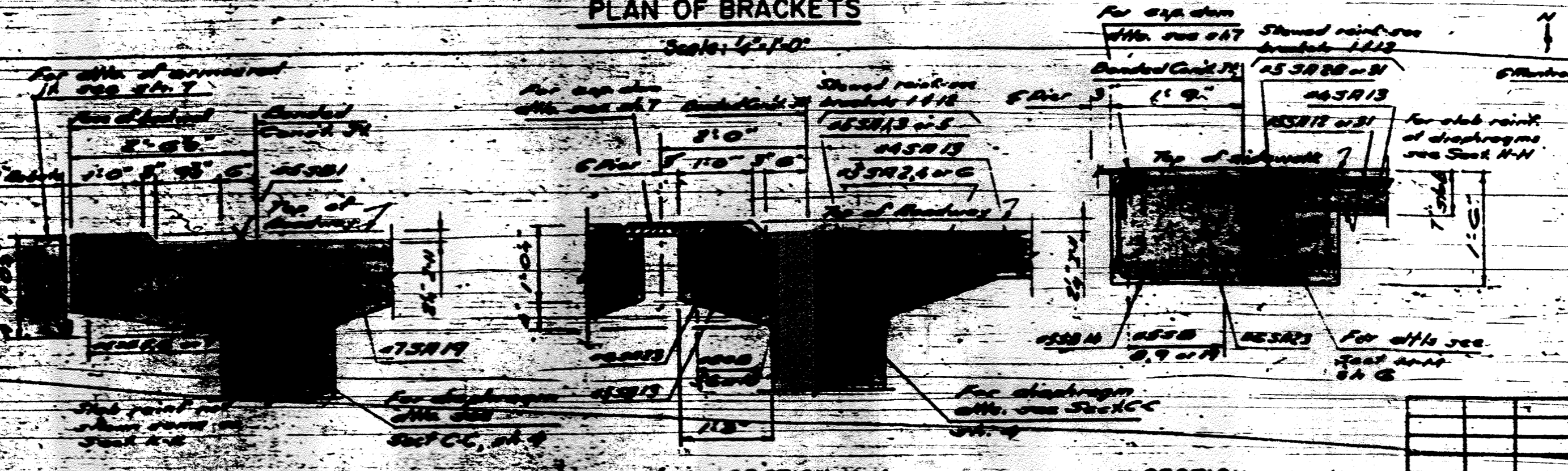
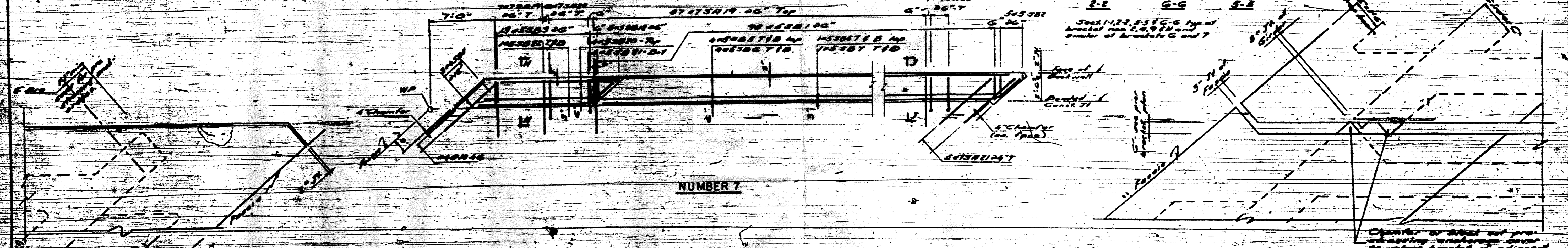
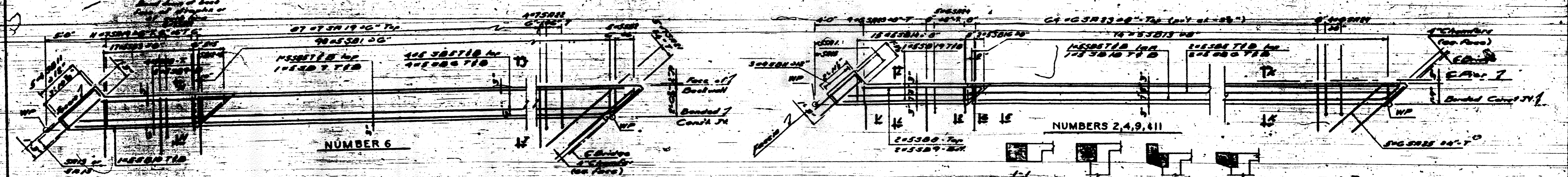
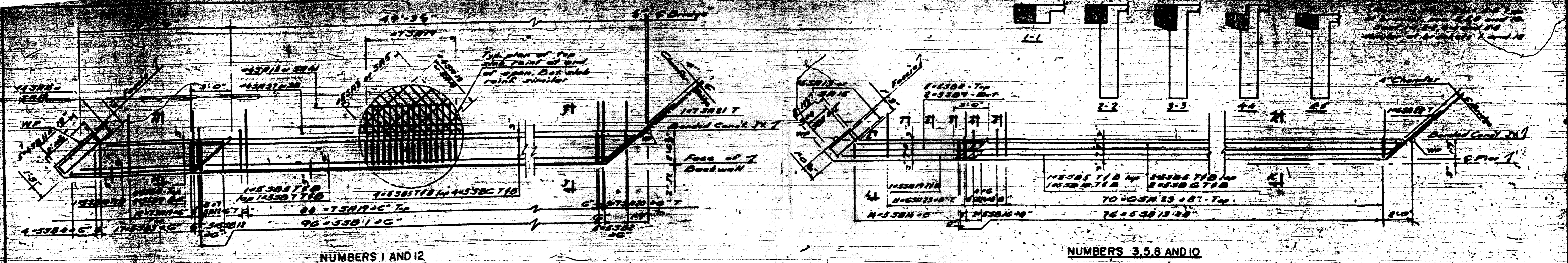
MONTROSE AVE GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

END DIAPHRAGM AND GIRDER DETAILS

THE PRELOAD CO. INC. CONSULTING ENGINEERS
24 EAST 57th STREET, NEW YORK 24, N.Y.

F.A.I. 94

DATE	BY	REVISIONS



DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK

DANIEL BYRN
PRESIDENT BOARD OF COMMISSIONERS

WILLIAM J. BOSTNER
SUPERINTENDENT OF HIGHWAYS

MONTROSE AVE GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

END DIAPHRAGM BRACKETS

THE PRELOAD CO. INC.
211 EAST 37TH STREET

CONSULTING ENGINEERS
NEW YORK 26, N.Y.

SECTION
E83-001/87

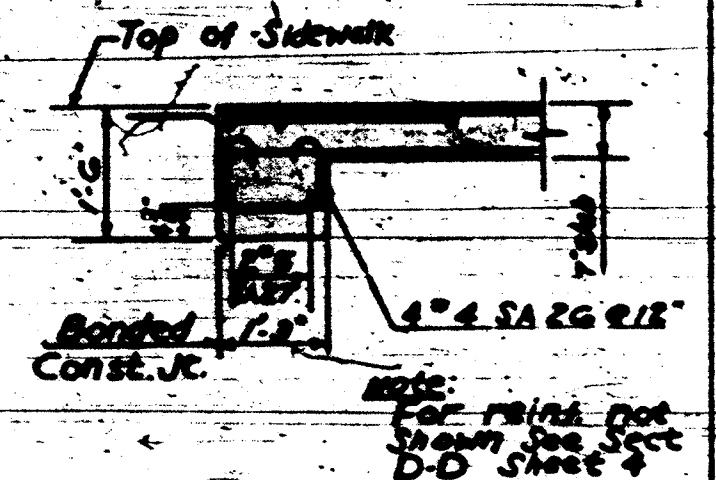
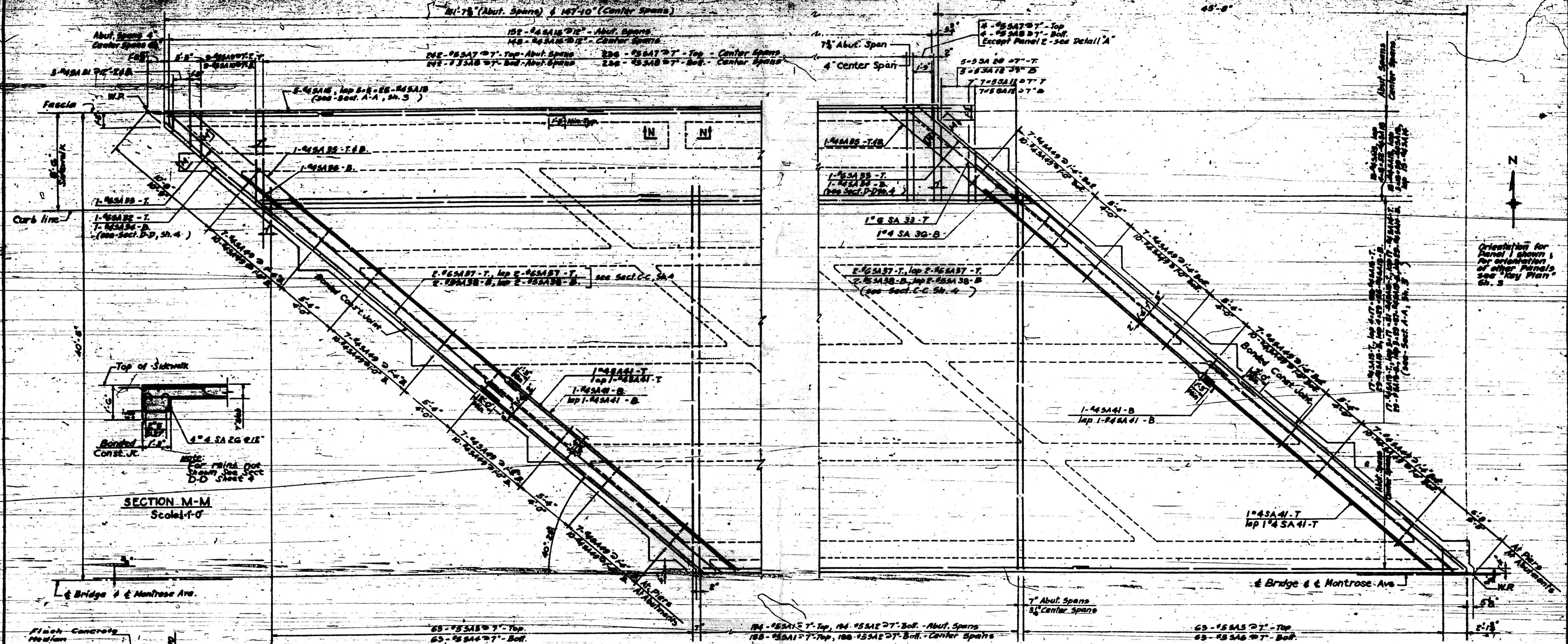
DRAWING NO.
5

DATE
5-21-57

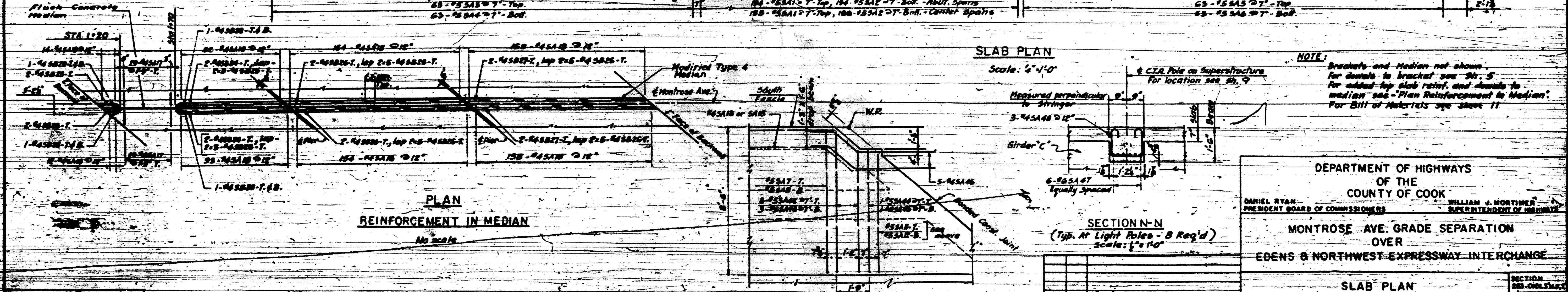
DATE BY

REVISIONS

F.A.I. 94



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



PLAN
REINFORCEMENT IN MEDIAN
No scale

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

SECTION N-N
(Typ. At Light Roles - B Req'd)
Scale: 1/2" = 1'-0"

DETAIL 'A' PANEL 2
Scale: 1/2" = 1'-0"

DESIGN	N.S.
DRAWN	J.P.
CHECKED	A.S.H.
APPROVED	M.S.

DATE	BY	REVISIONS

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK

DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS

WILLIAM J. MORTIMER
SUPERINTENDENT OF HIGHWAYS

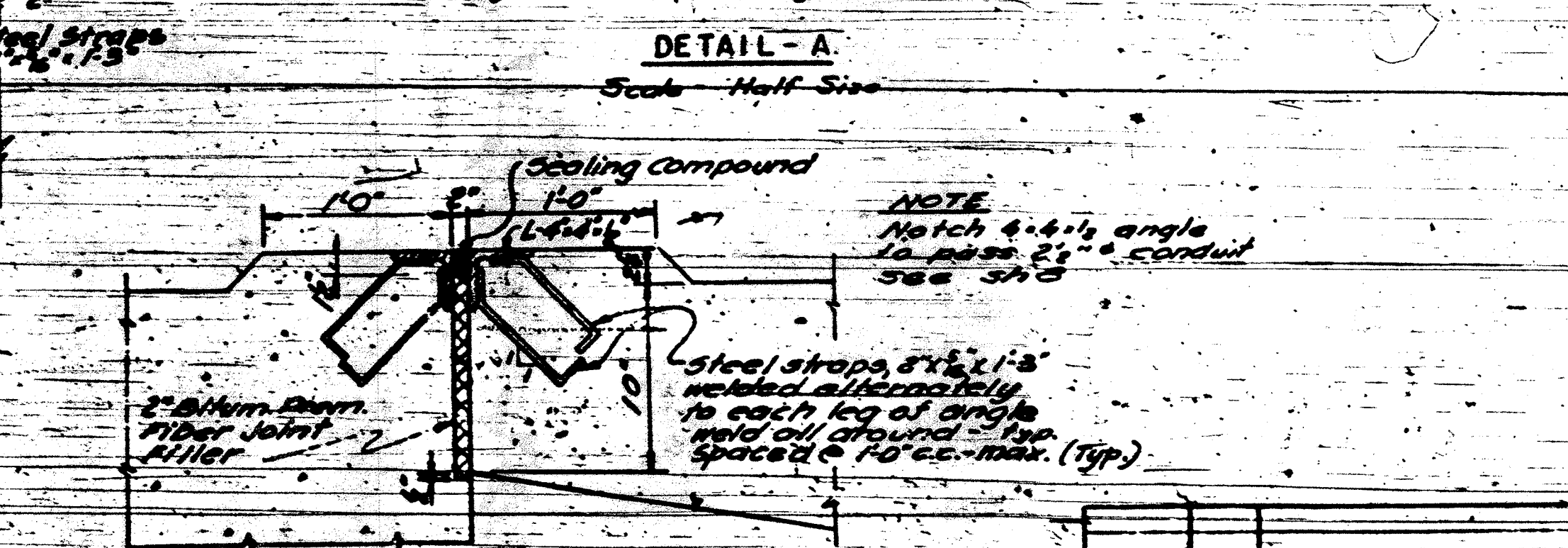
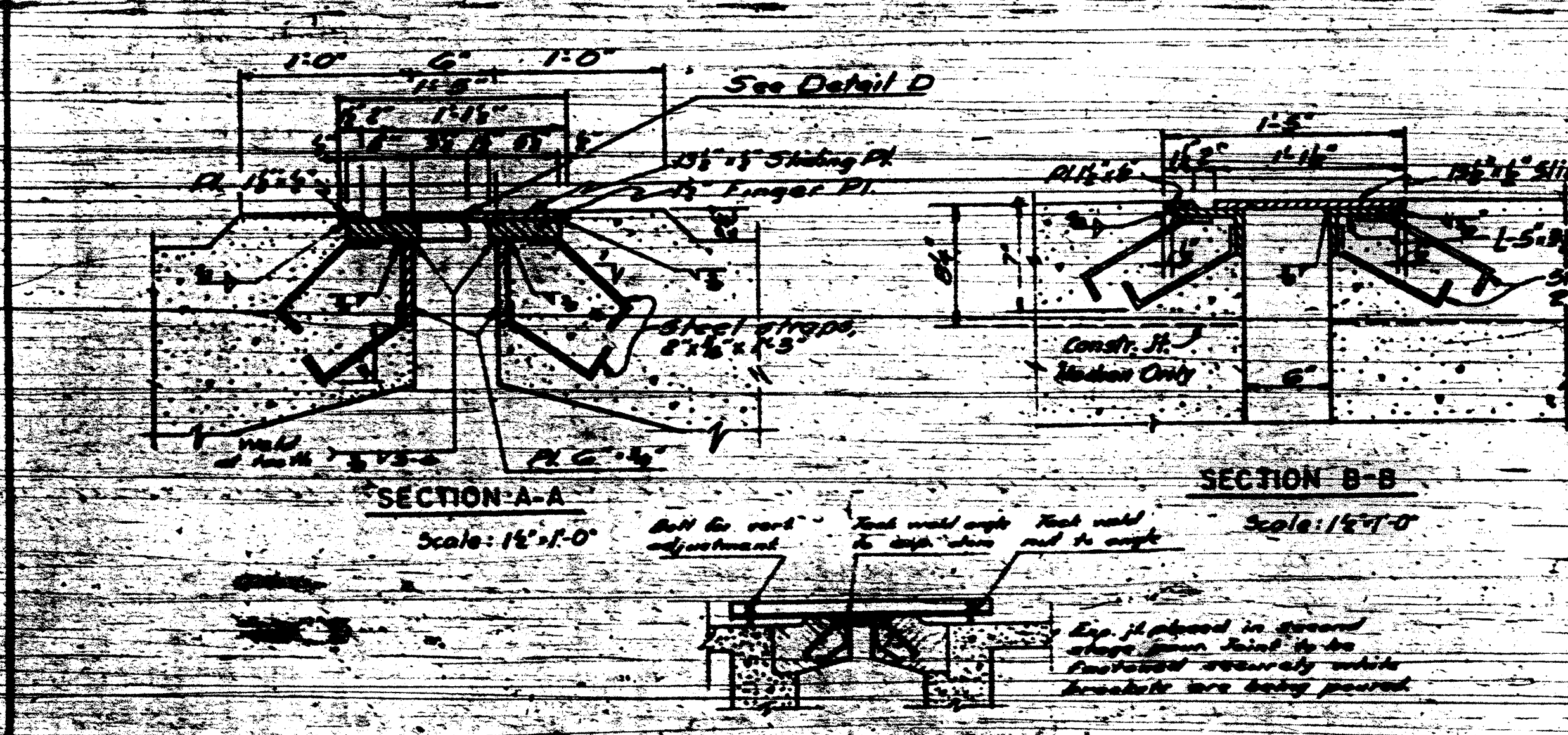
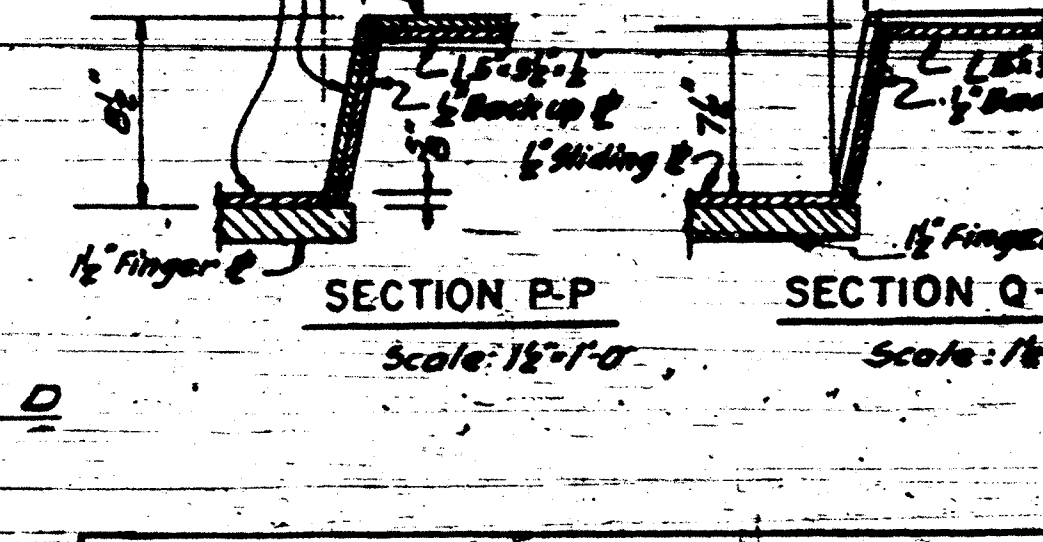
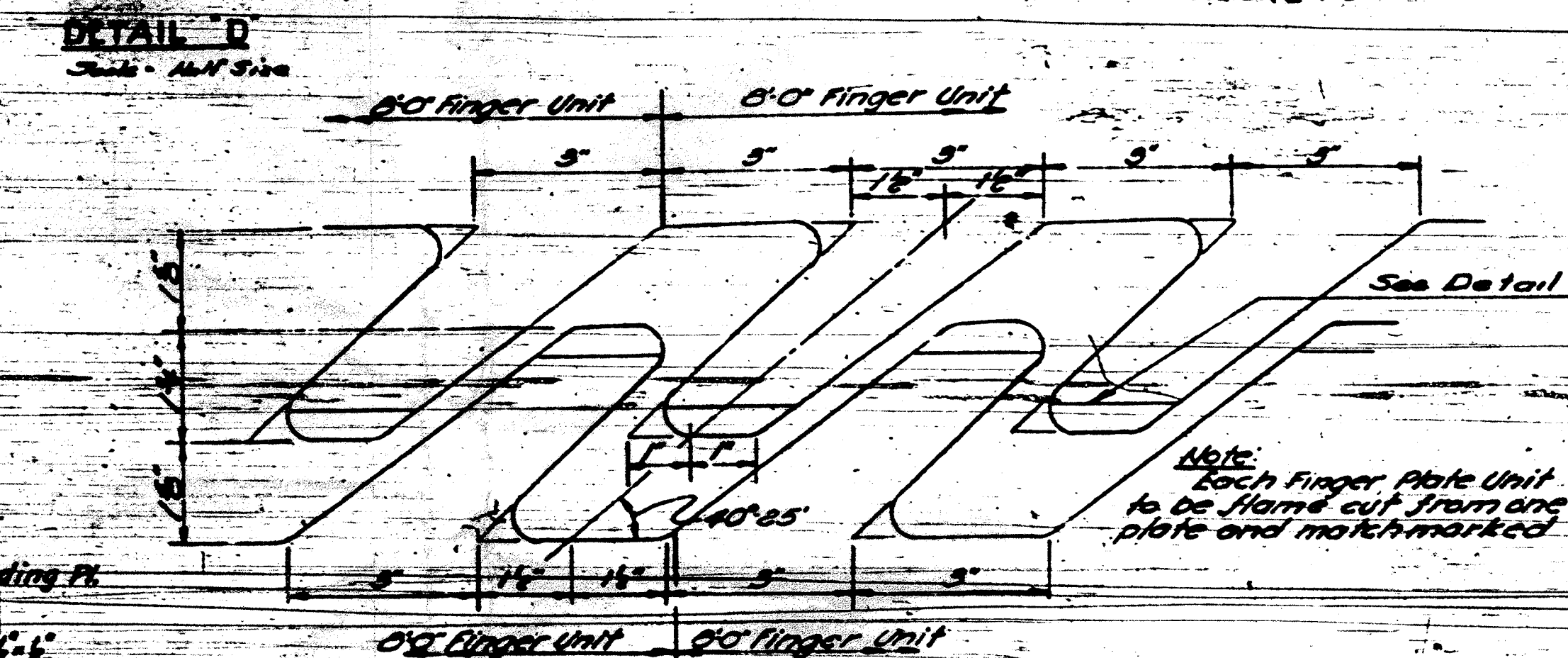
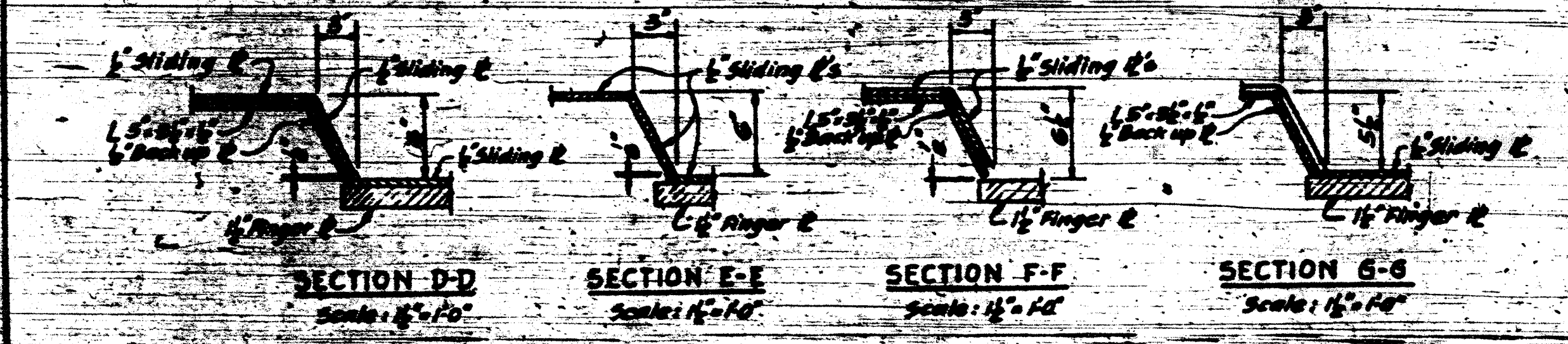
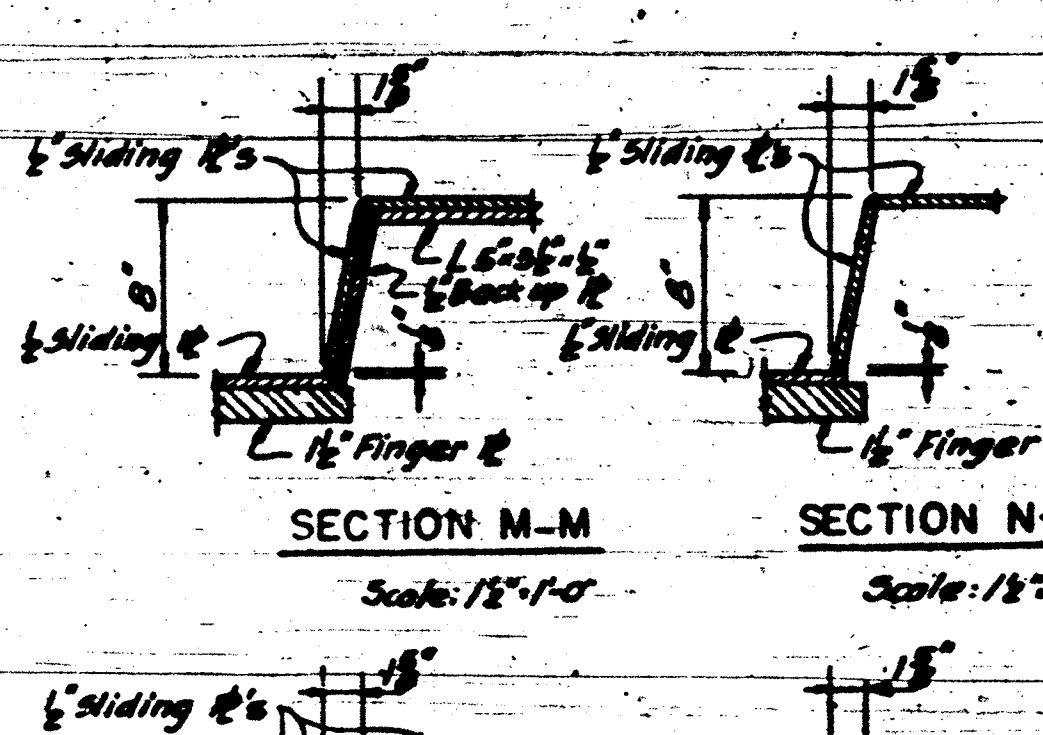
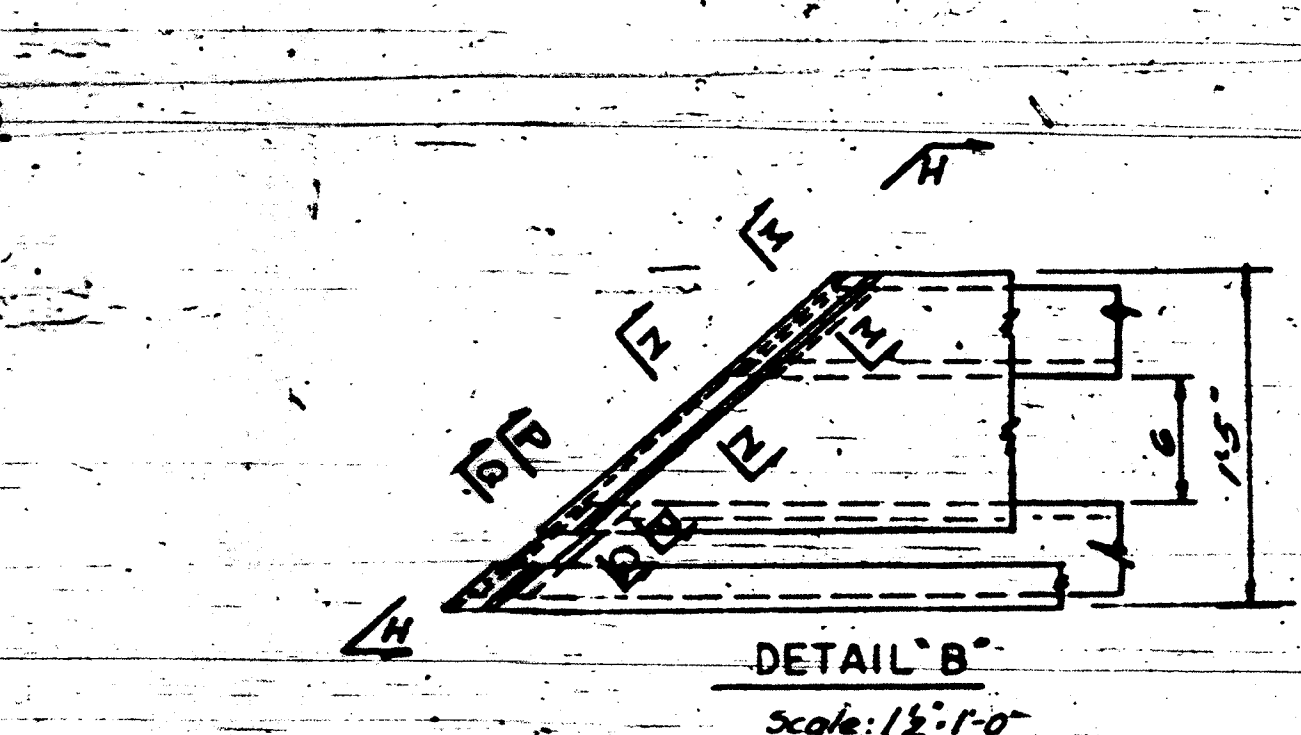
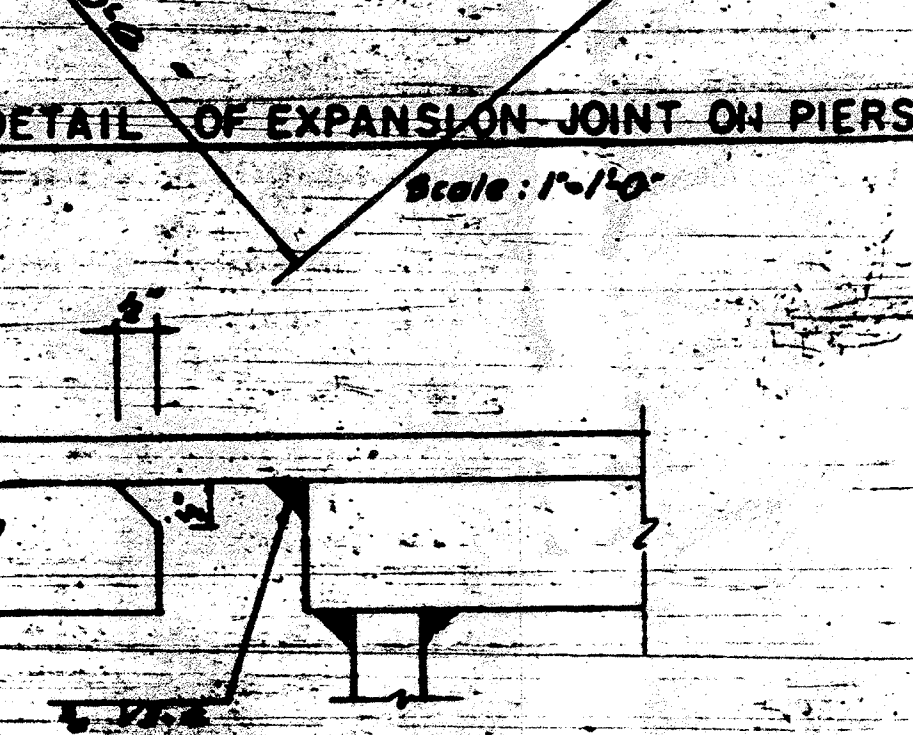
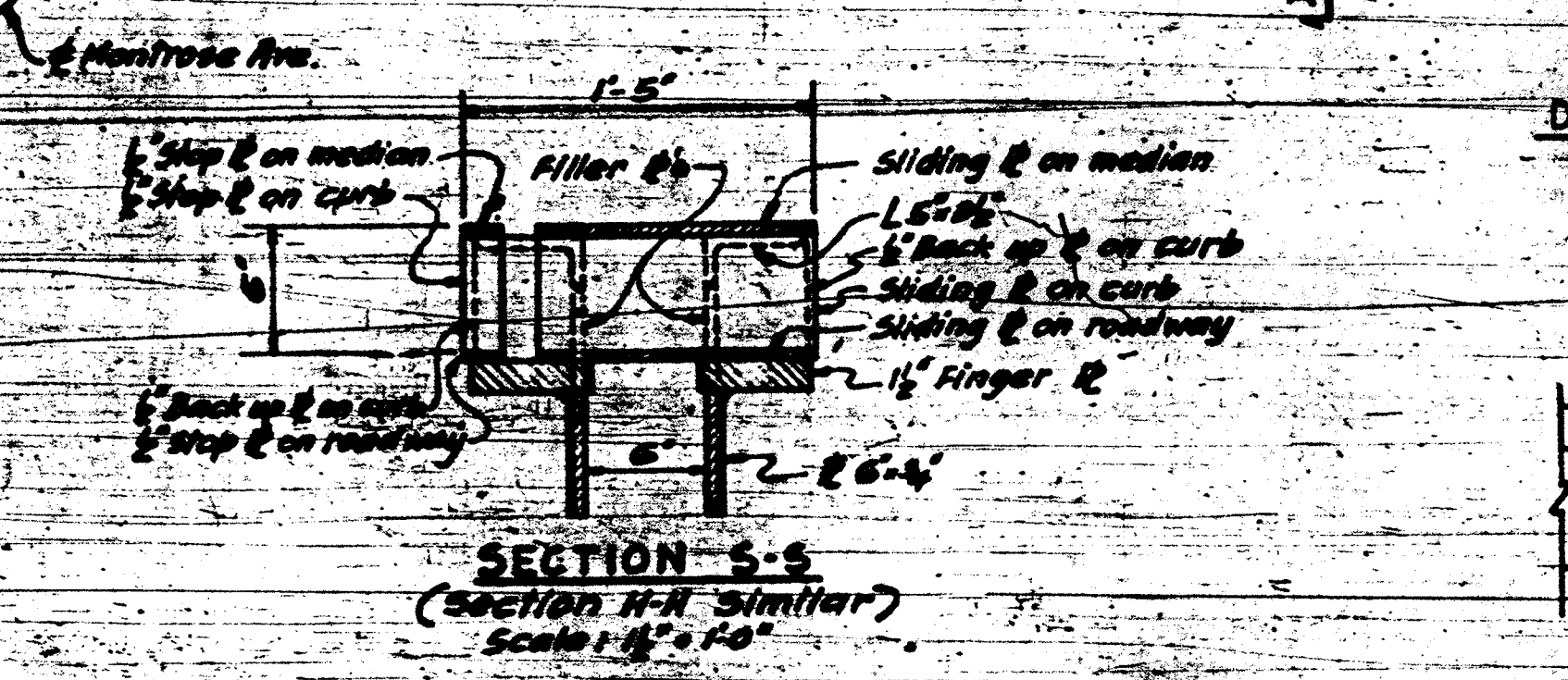
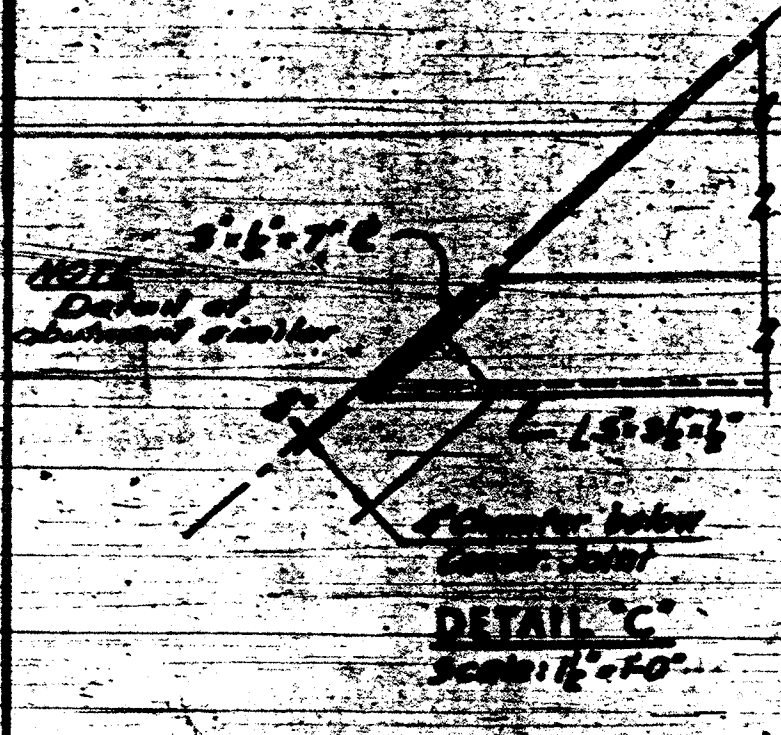
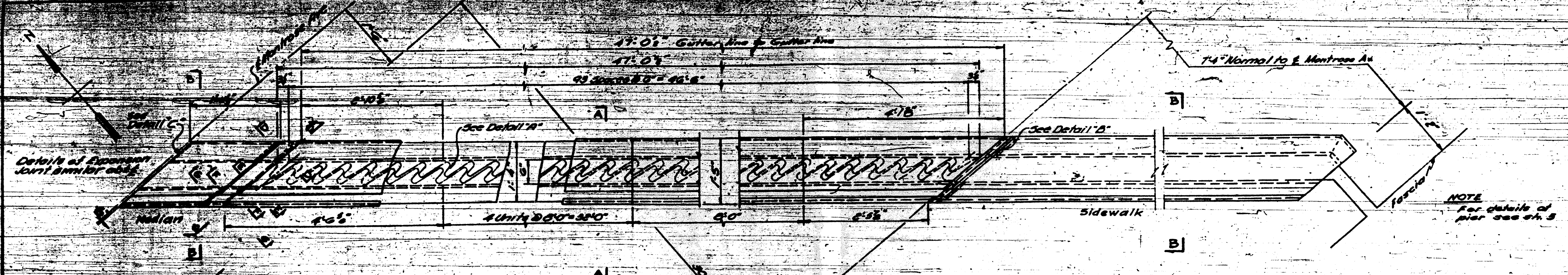
MONTROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

SLAB PLAN

THE PRELOAD CO. INC. CONSULTING ENGINEERS
211 EAST 37th STREET NEW YORK 18, N.Y.

SECTION 808-0125A-C
DRAWING NO. 6
DATE 3-21-57

FAI 94



BILL OF MATERIAL	
Furnishing and Erecting Structural Steel	189,800.00
This Sheet only	

- Notes:
- All joints shall be lubricated to follow roadway cross slope.
 - All surfaces not in contact with concrete shall receive two coats of red lead paint.
 - For material see Special Provisions.

DEPARTMENT OF HIGHWAYS
 OF THE
 COUNTY OF COOK

DANIEL BYAN
 PRESIDENT BOARD OF COMMISSIONERS

WILLIAM J. MORTNER
 SUPERINTENDENT OF HIGHWAY

MONTROSE AVE GRADE SEPARATION
 OVER
 EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

EXPANSION JOINT ON PIERS & FIXED JOINT ON ABUTMENTS

SECTION 288-00101-10
 DRAWING NO. 7
 DATE 5-24-57

THE PRELOAD CO INC
 28 EAST 37th STREET

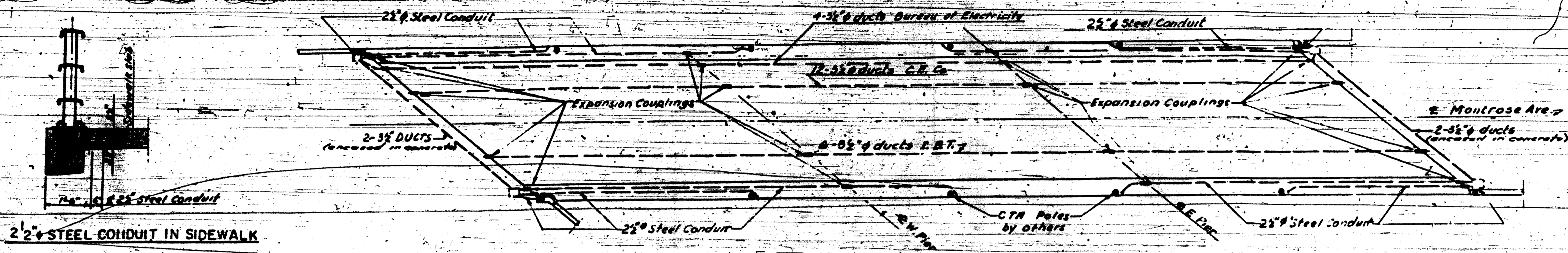
CONSULTING ENGINEERS
 NEW YORK 16, N.Y.

SUGGESTED METHOD FOR SETTING EXP. JTS.
 Scale: 1/2" = 1'-0"

Note: Sidewalk Section Similar

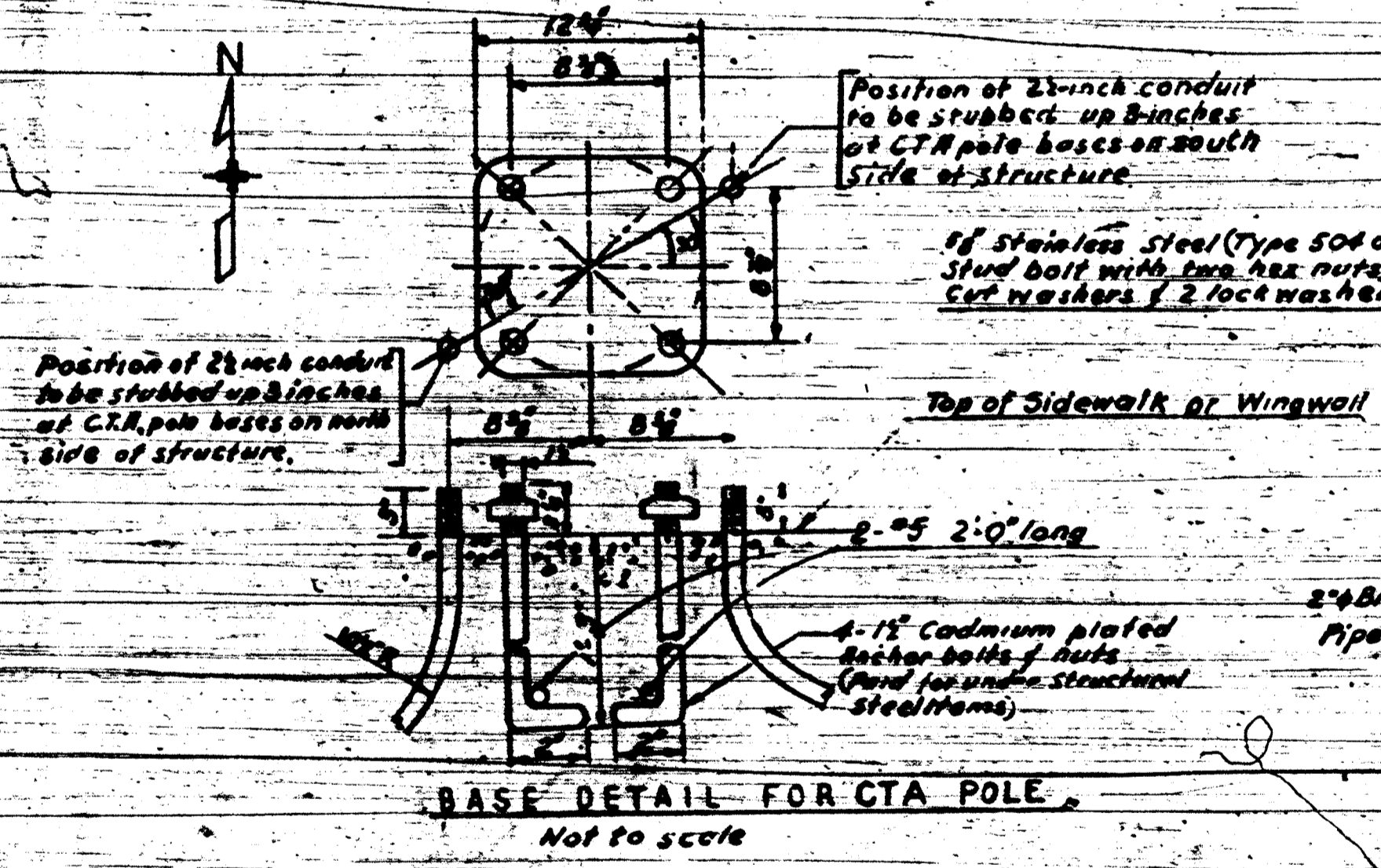
F.A.I. 94

DATE	BY	REVISIONS

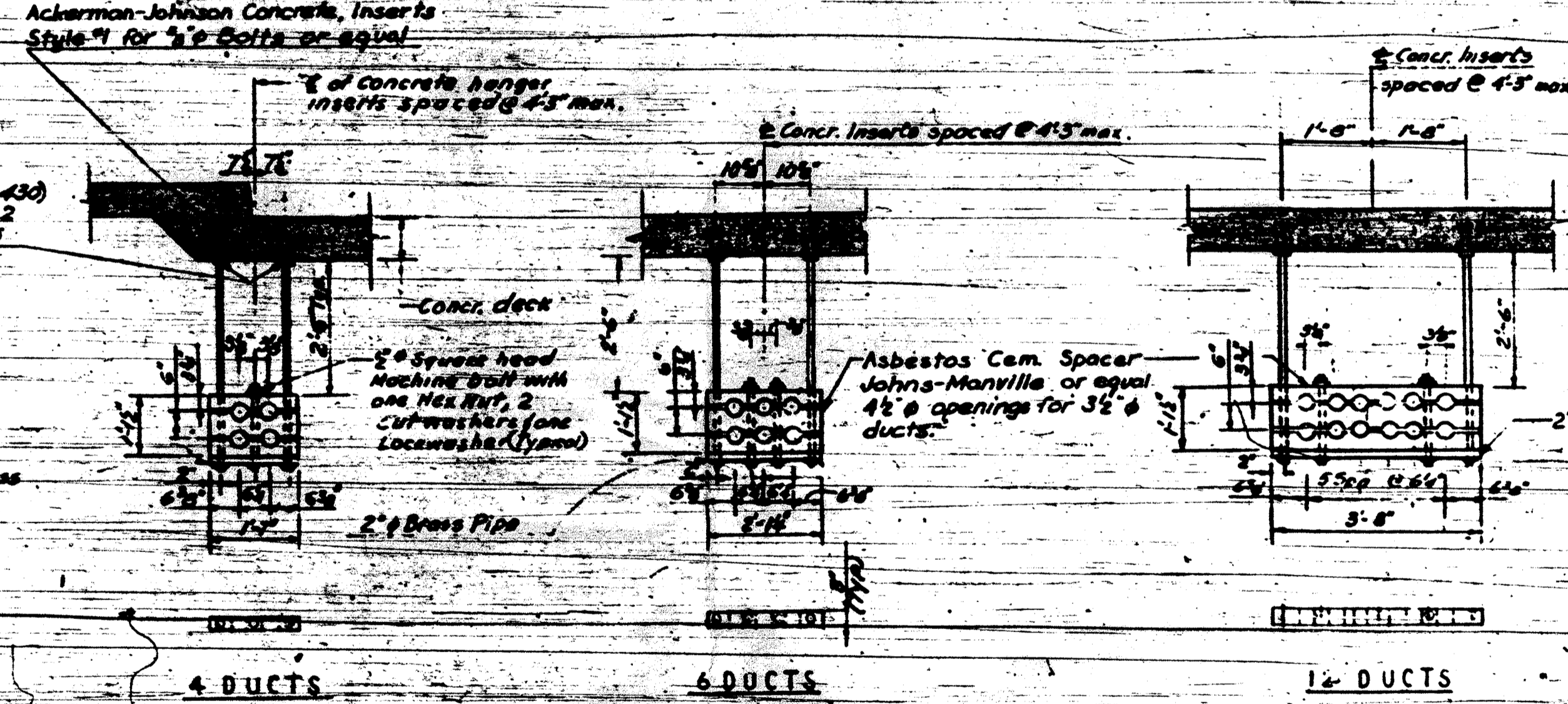


PLAN OF DUCTS
Scale: 1/32'0"

NOTES:
 The C.E. Co. and the E.B.T. Co. shall furnish and install all materials for their conduit system, except concrete inserts and Expansion Couplings at their own cost.
 Concrete Inserts and Expansion Couplings shall be furnished by the C.E. Co. and the E.B.T. Co. respectively and installed by the Contractor.
 The Contractor shall furnish and install all material required for the Bureau of Electricity conduit installation. Installation of the Concrete Inserts and the Expansion Couplings shall be included for payment in Class X-X Concrete.



BASE DETAIL FOR CTA POLE
Not to scale



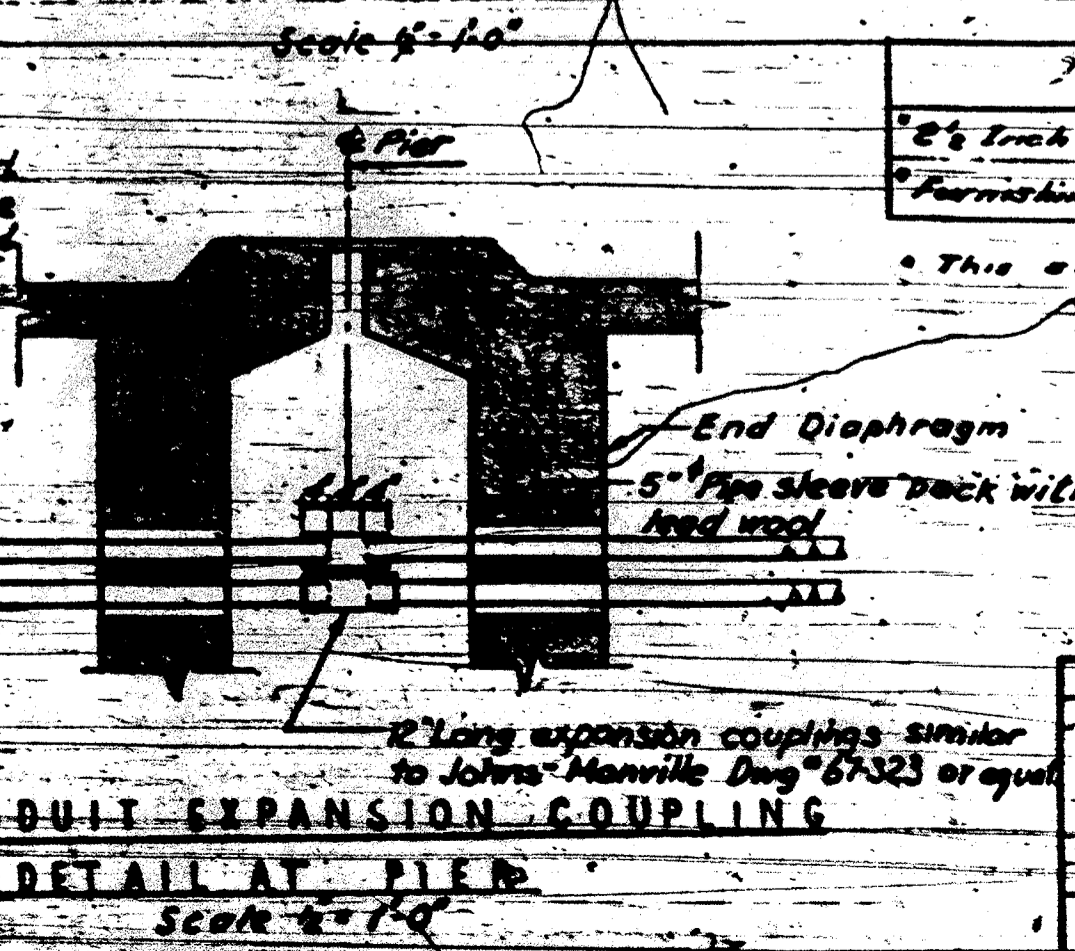
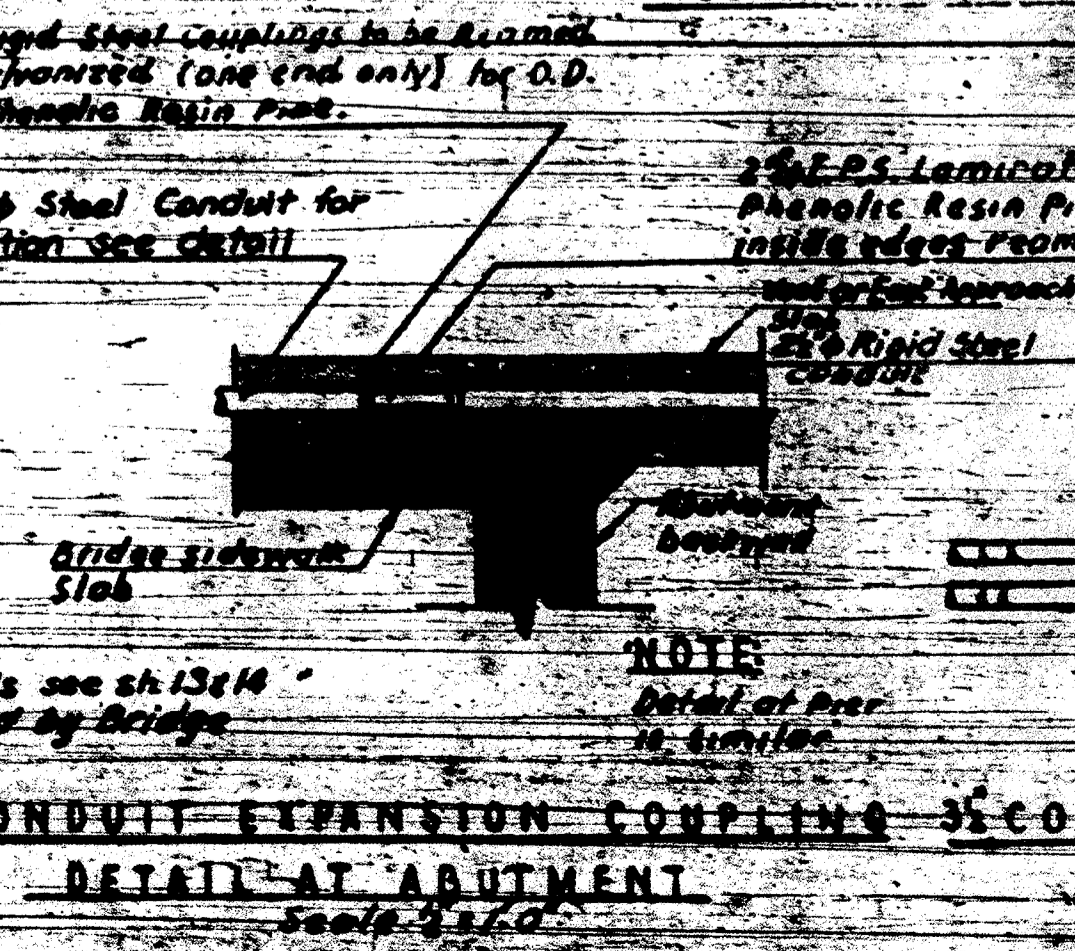
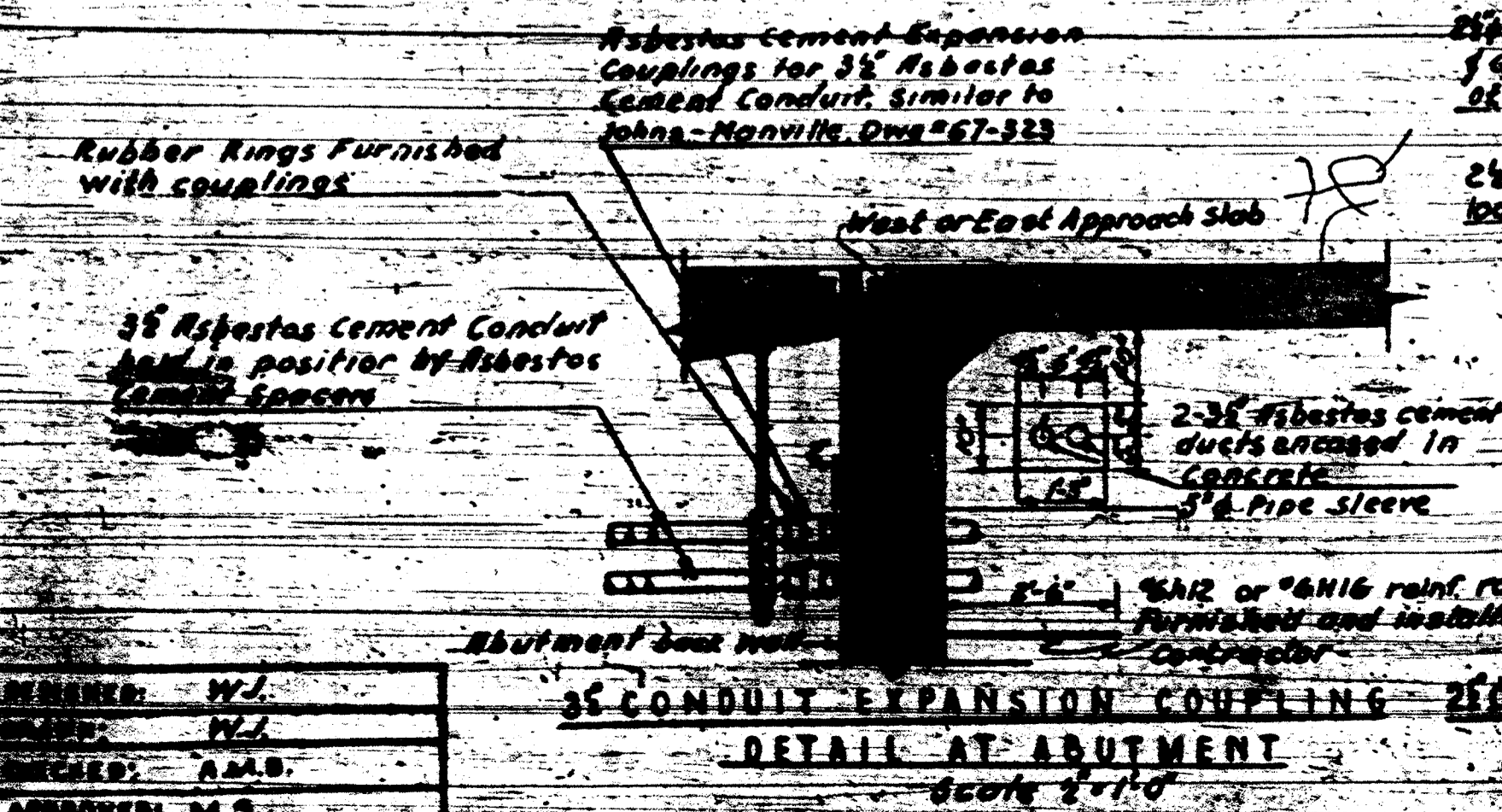
NOTE:
 Holes in spacer clamps of brass pipe shall be drilled 1/8" over size. Cut 1/8" steel bolts flush with nut and press center punch or spot weld thread to prevent nut from turning.

NOTES:
 1) Payment for pipe above and lead wool shall be included in the price bid for Class X-X Concrete.
 2) CTA pole base anchor bolts are to be set to a metal template.
 3) CTA poles will be furnished and erected by others.
 4) For light standard details on the Southwest wingwall see S.H. 19.
 5) For location of CTA poles see at 4.
 6) For location of suspended ducts see at 5.

BILL OF MATERIALS

2 1/2" Inch Rigid Steel Conduit	1.0/1300
Furnishing and Erecting Structural Steel lbs 520	

* This sheet only.



DESIGNED: W.J.
 CHECKED: A.M.S.
 APPROVED: M.S.

F.A.I. 94

DATE	BY	REVISIONS

DEPARTMENT OF HIGHWAYS
 OF THE
 COUNTY OF COOK

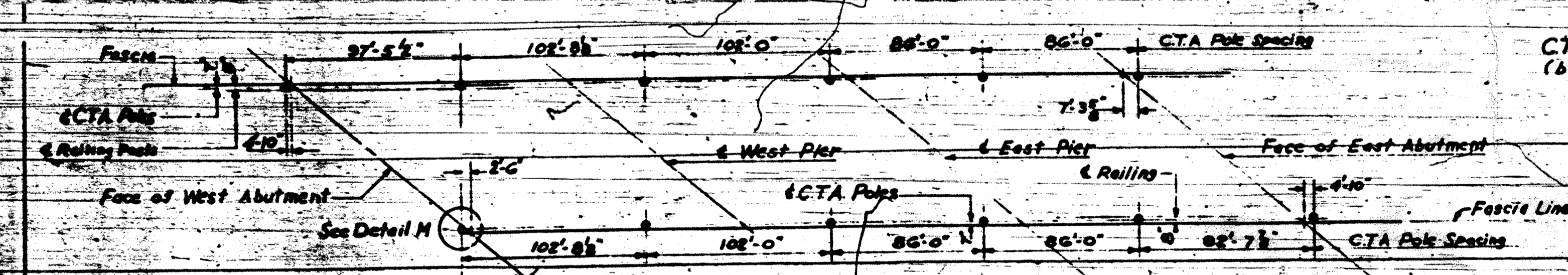
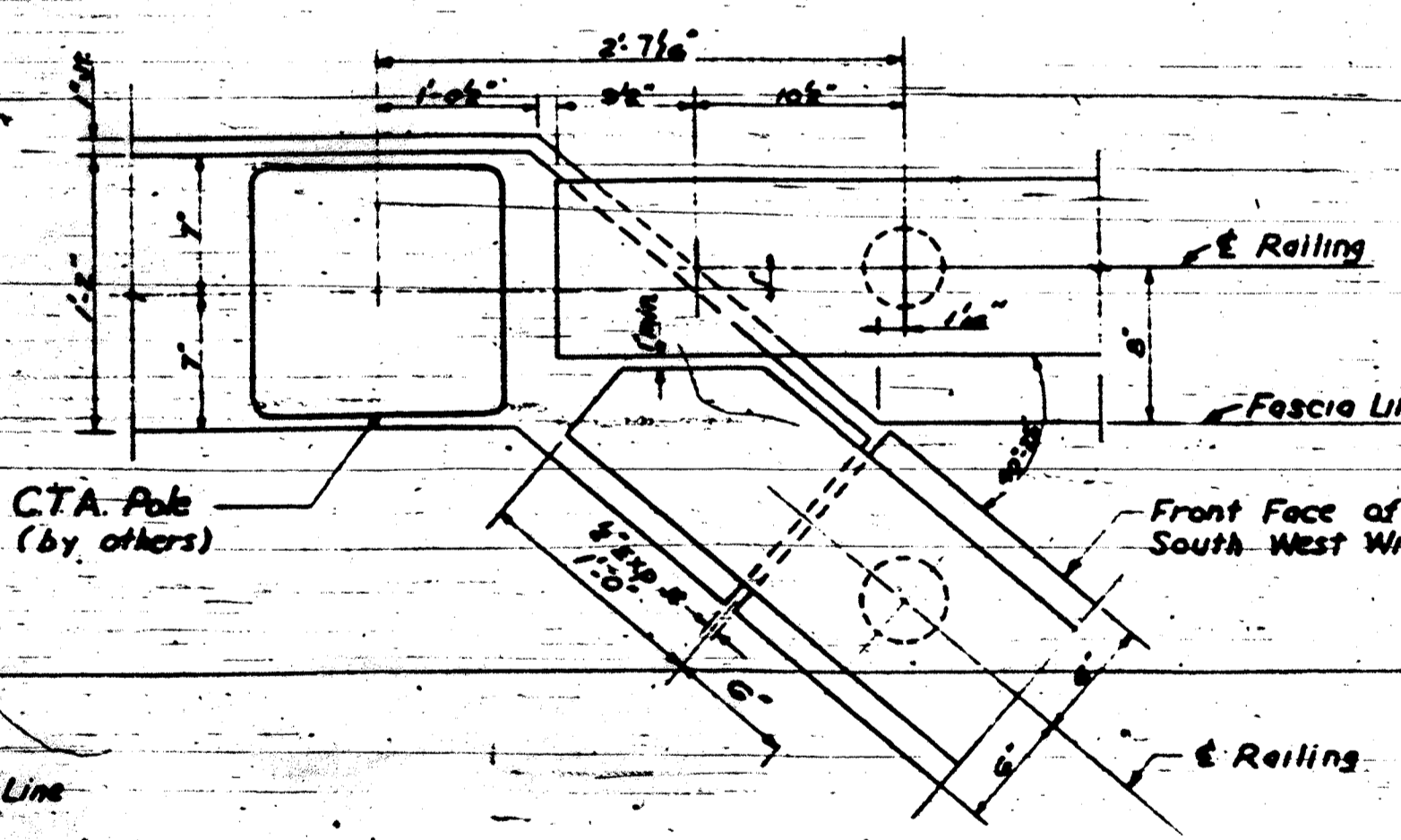
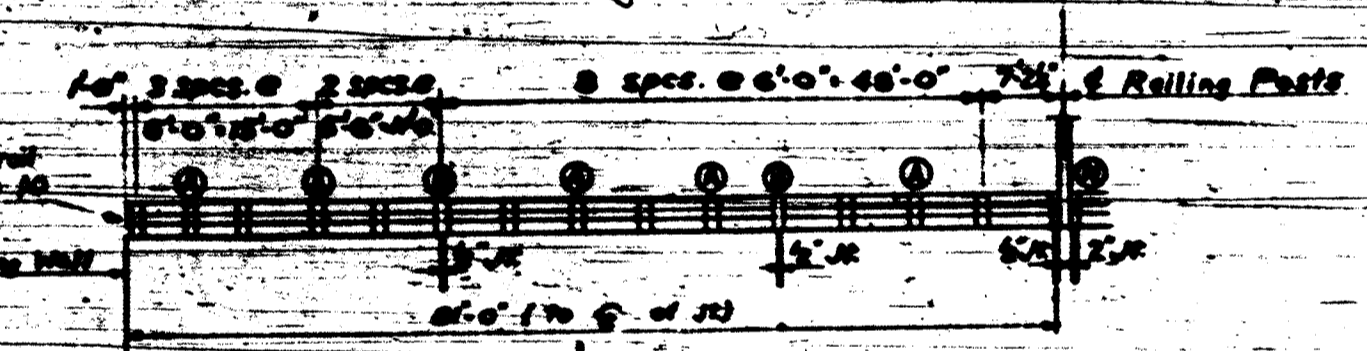
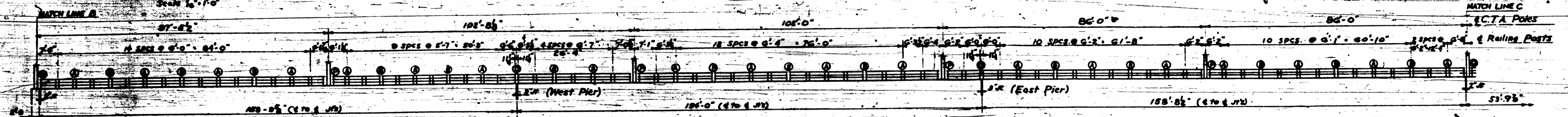
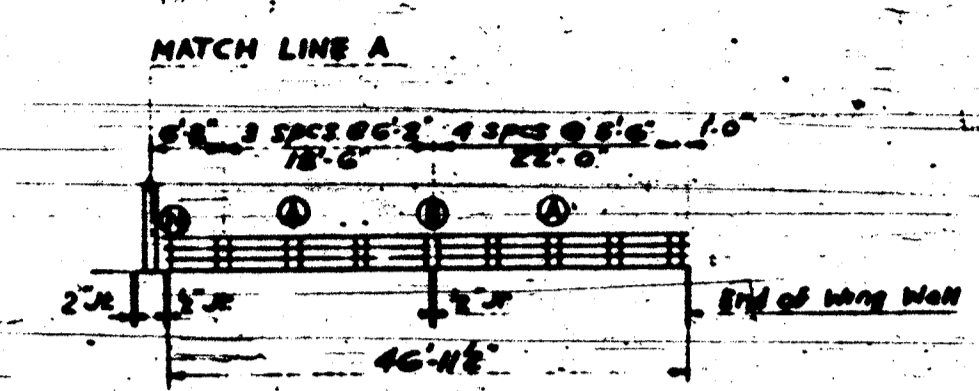
DANIEL RYAN
 PRESIDENT BOARD OF COMMISSIONERS

WILLIAM LAMONTAGNA
 SUPERVISOR DEPT. OF HIGHWAYS

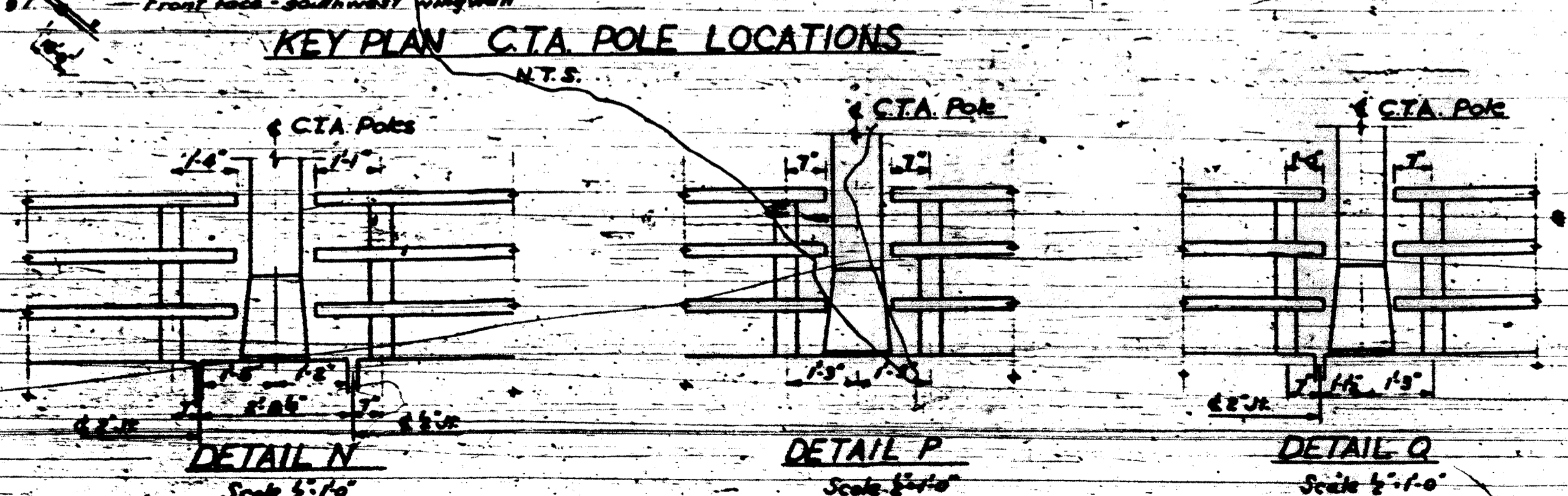
MONTROSE AVE GRADE SEPARATION
 OVER
 EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

UTILITY DETAILS

THE PRELOAD CO. INC. CONSULTING ENGINEERS
 211 EAST 37th STREET NEW YORK 18, N.Y.



- NOTES**
- 1) See Detail A for standard Detail A. See sh 10 for detail A, B and D. See sh 19 for detail R.
 - 2) Railing & CTA Pole spacing is measured horizontally along Fascia Line.
 - 3) See sh 8 for CTA Pole Anchor bolts & Conduit Details.
 - 4) For chg along Wingwall see shs 17, 18 & 19. For chg on bridge see shs 2 & 3.
 - 5) See sh 19 for light standard anchor bolt & Conduit Details.



Bill of Material		
Metal Handrail-Type A	L.F.	1214

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK

DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS

WILLIAM J. MORTIMER
SUPERINTENDENT OF HIGHWAYS

MONTROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

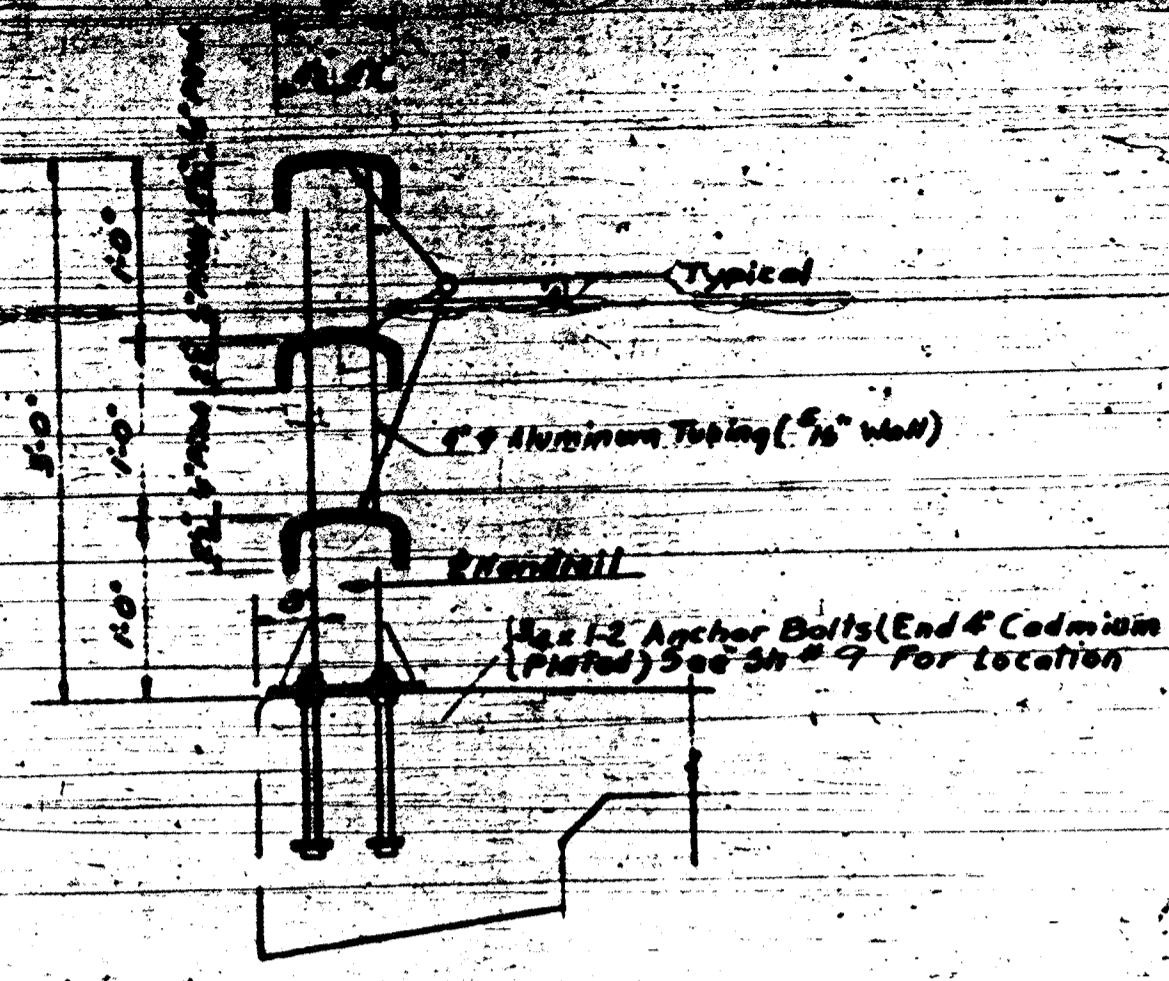
METAL RAILING—TYPE "A"—SPACING

THE PRELOAD CO. INC. CONSULTING ENGINEERS
28 EAST 37TH STREET NEW YORK 18, N.Y.

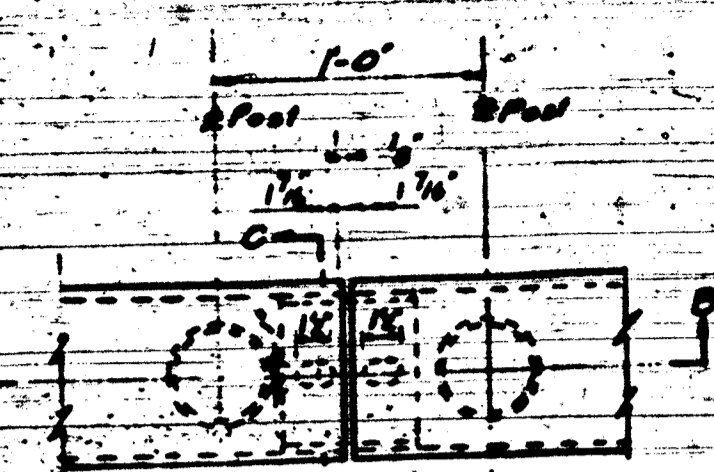
SECTION 5-31-57
DRAWING NO. 9
DATE 5-31-57

DESIGNED BY	R.M.
CHECKED BY	J.P.
APPROVED BY	A.M.B.
DATE	5-31-57

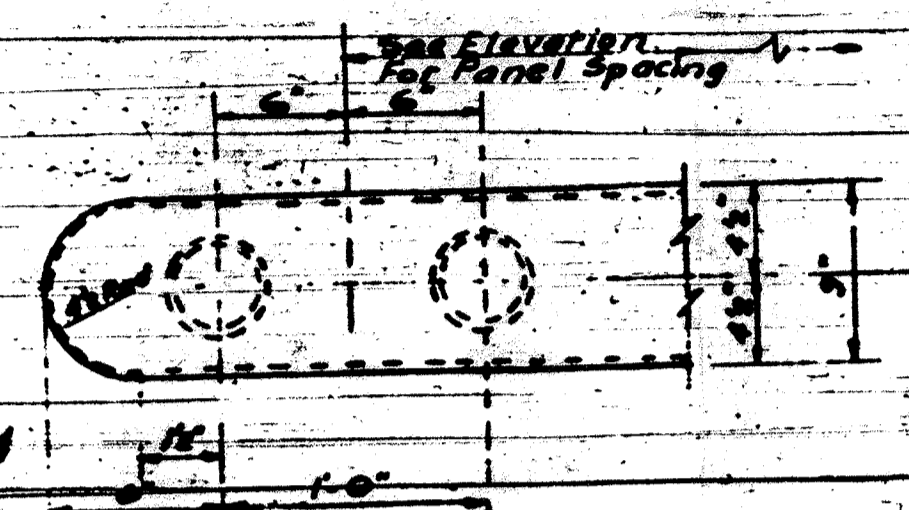
FAI 94		
DATE	BY	REVISIONS



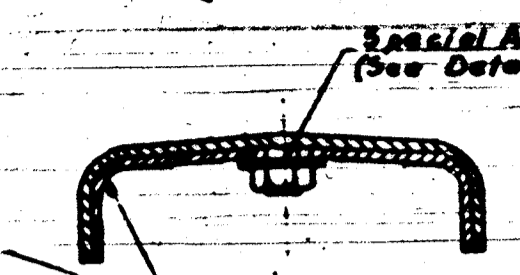
TYPICAL HANDRAIL SECTION



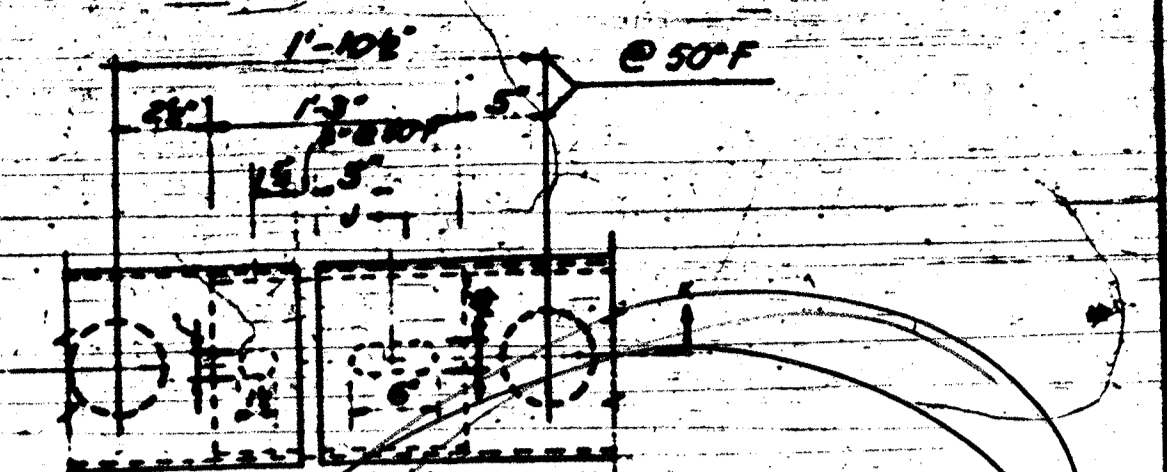
DETAIL "A" (TYPICAL) ALL RAIL RUNNERS



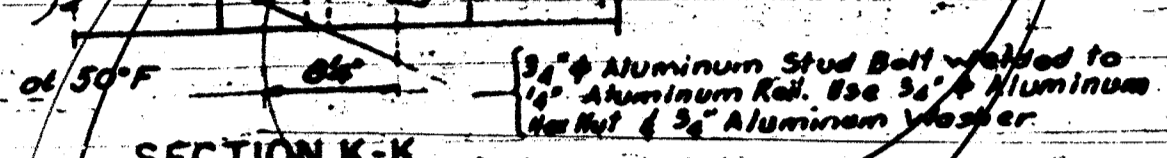
END OF HANDRAIL DETAIL



SECTION J-J

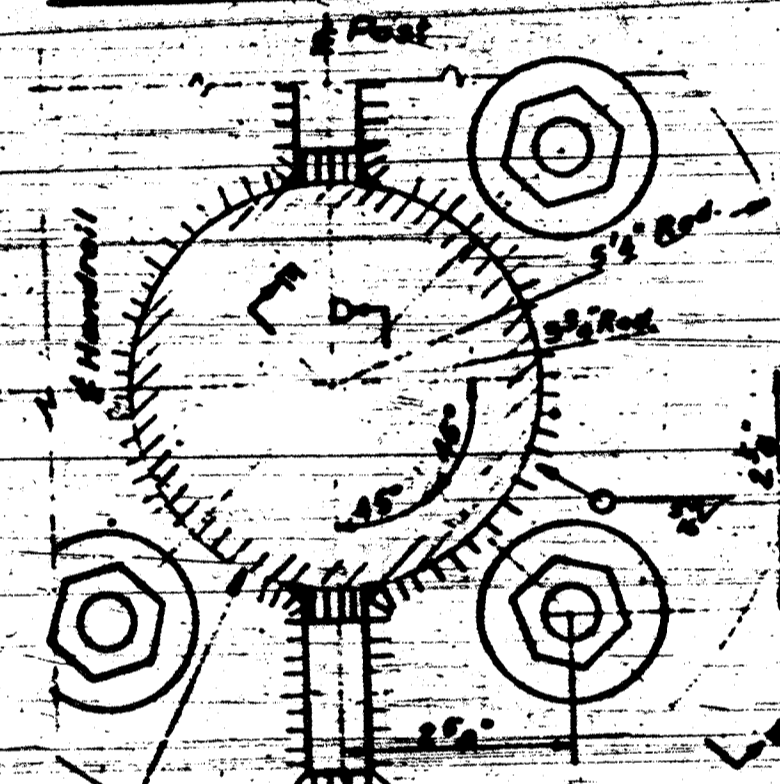


DETAIL "B" (TYPICAL) EXPANSION JOINT DETAIL

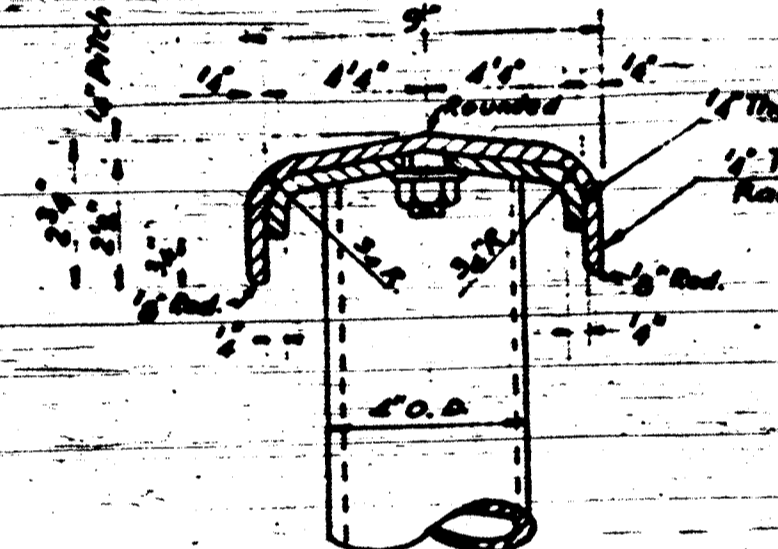


SECTION K-K (All Rail Runners)

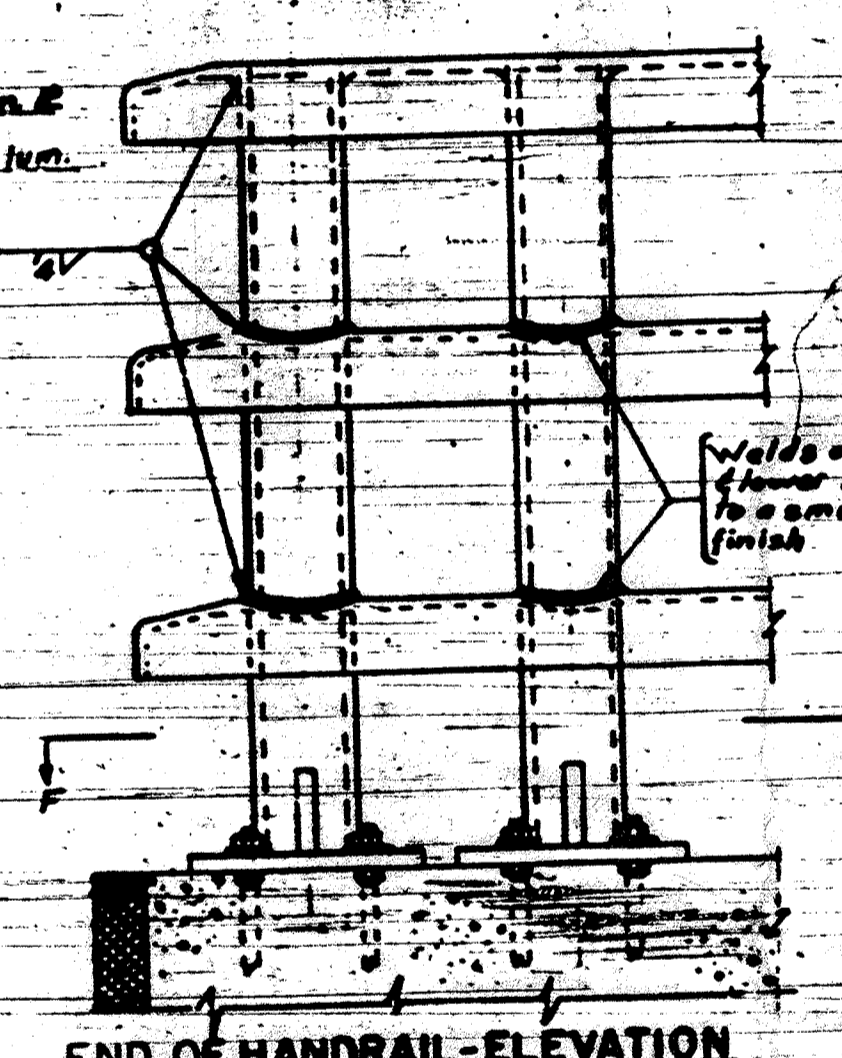
SPECIAL STUD BOLT DETAIL



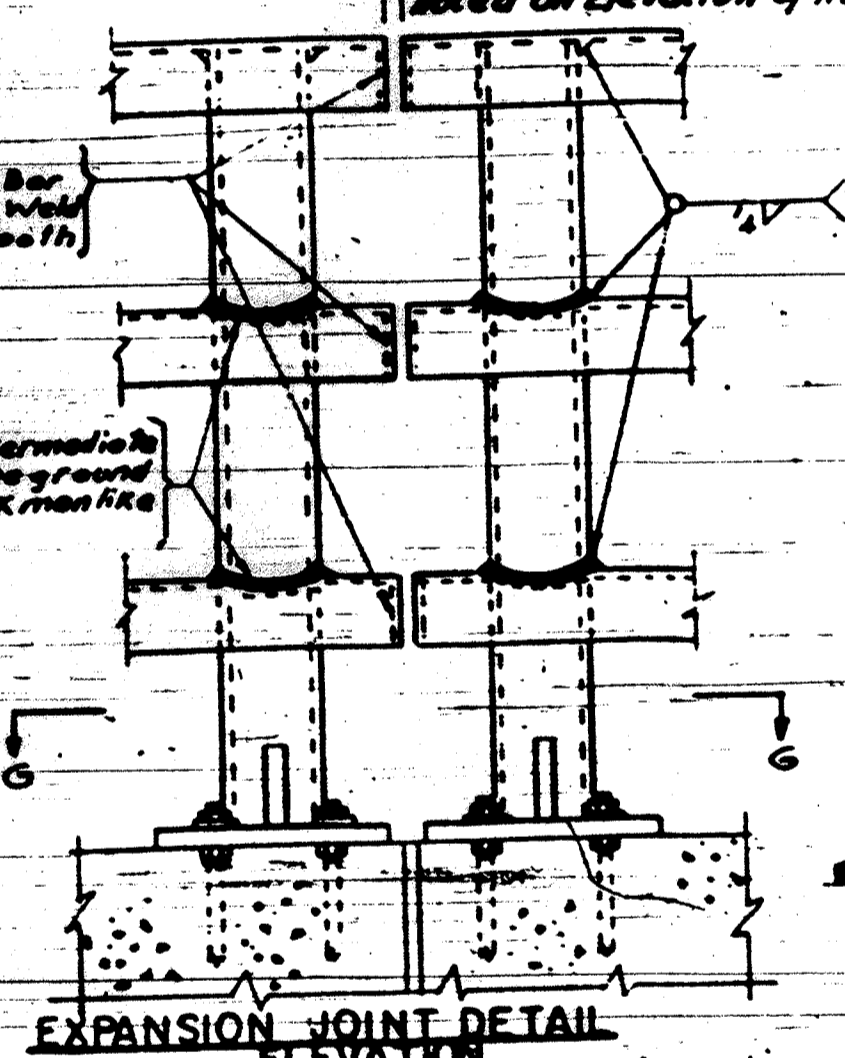
DETAIL OF RAIL POST PLATE



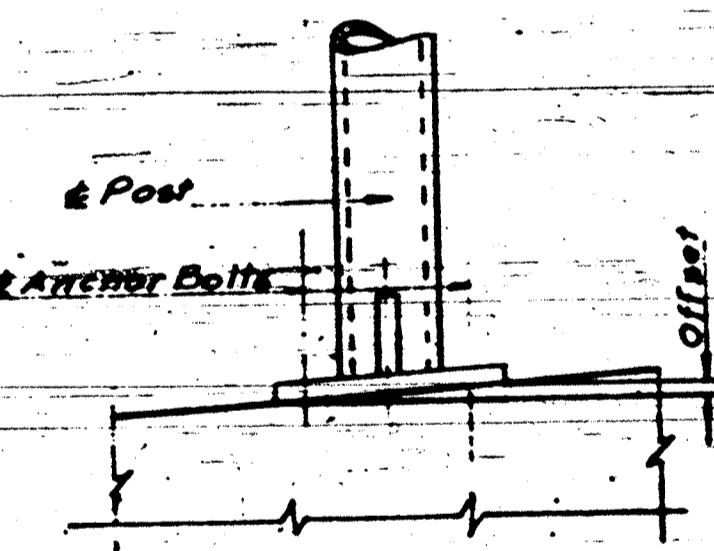
SECTION C-C



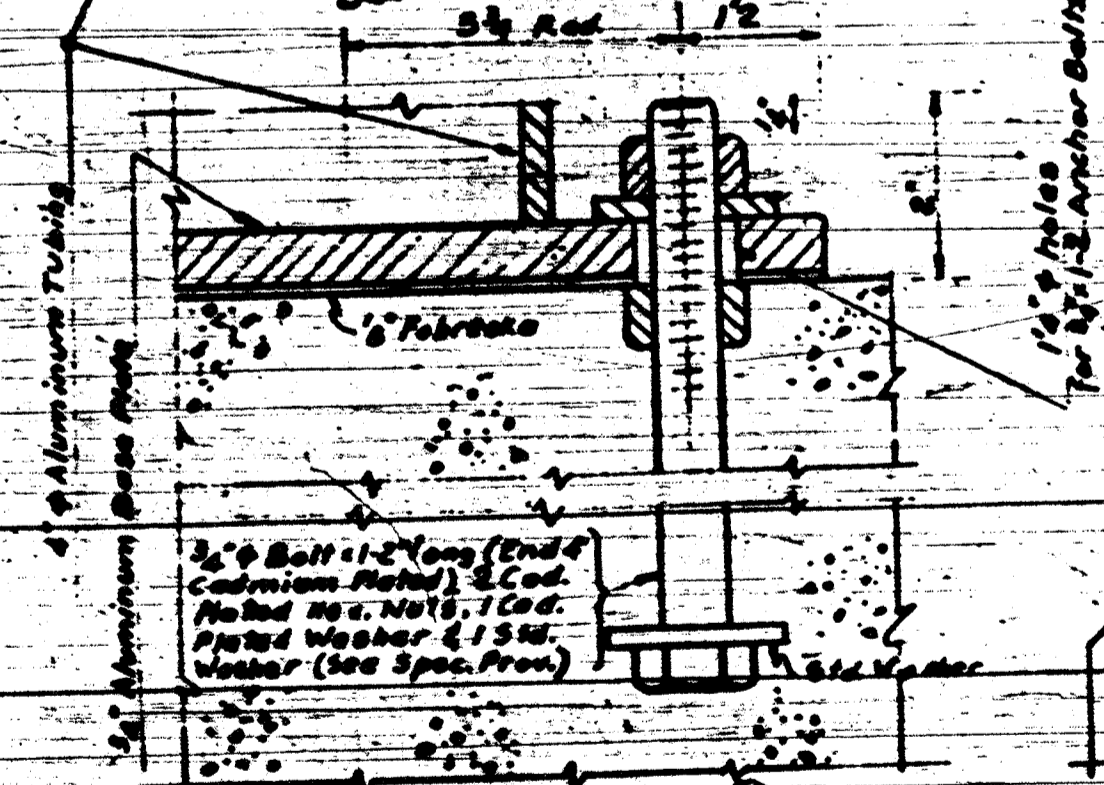
END OF HANDRAIL - ELEVATION



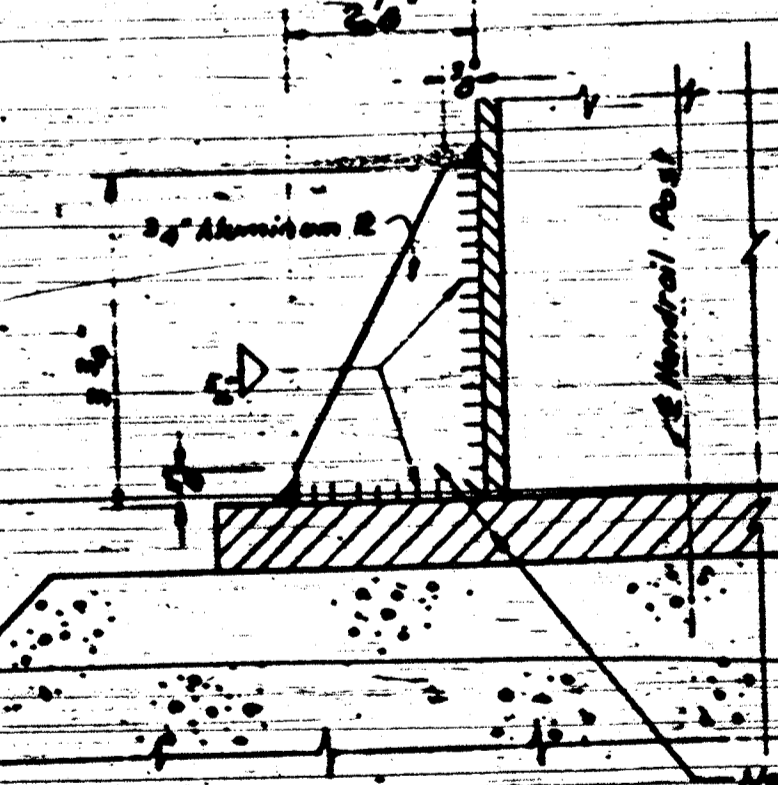
EXPANSION JOINT DETAIL ELEVATION



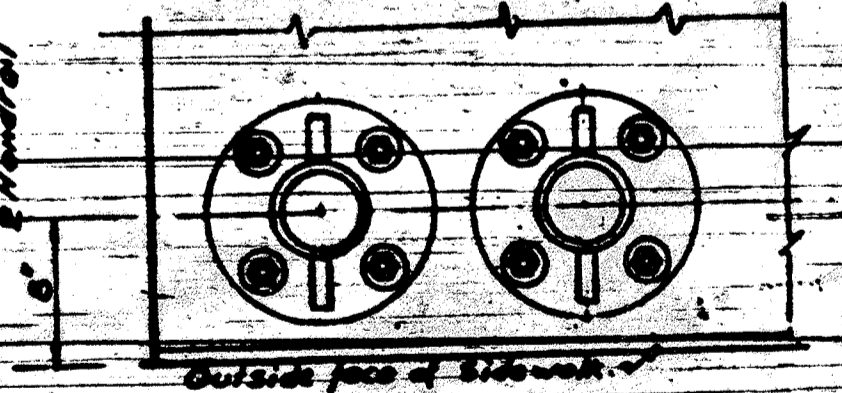
HANDRAIL POST LEVEL
Note - Offset to make post truly vertical.



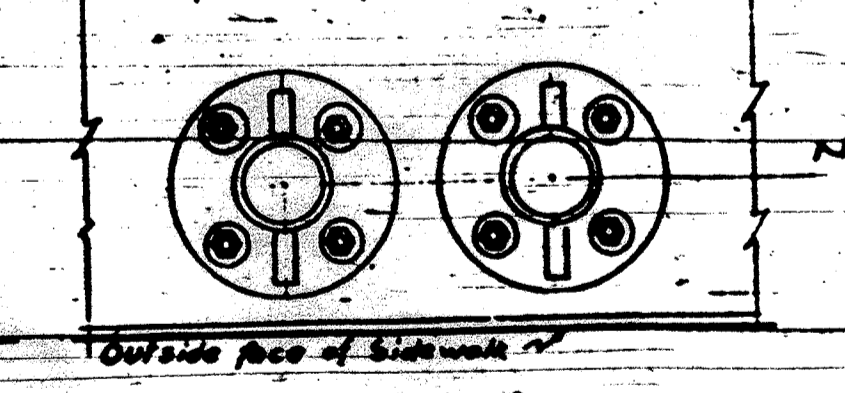
SECTION E-E



SECTION D-D



SECTION F-F



SECTION G-G

TYPICAL DETAILS - HANDRAIL - TYPE A

Handrail Spacing see sh # 7
Material
All material, except as noted, shall be of Aluminum Alloy complying with Aluminum Association design rules standard for the particular alloy and product specified.
Posts
All posts shall be fabricated from Reynolds Aluminum Co. Section No. 3294 or an approved equivalent. The posts shall be formed by the extrusion process from 6061-T6 Aluminum Alloy. The post shall be anchored to the base plate as detailed and the entire assembly welded as shown. Base plates and stiffeners will be fabricated from 6061-T6 plate with edges true, smooth and free from jagged breaks. The handrail contractor has the alternate of coating base plate and stiffeners together if base plates and stiffeners are cast, the alloy will be 456-T6. The Aluminum Alloy base plate will be protected

from direct contact with concrete surfaces by use of a 1/8 inch thick gasket (Fabrica or equal) completely covering the contact area.
Rail
Channel shaped rail will be of the dimensions shown on the plans. This rail will be formed by the extrusion process from 6061-T6 Aluminum Alloy.
Fittings
Bolts and nuts shall conform to the American Standard Heavy Hexagon unless other types noted. All bolts will be made from 2024-T4 alloy with the No. 205 Aluminum finish. Washers will be made from 2024-T4 Aluminum Alloy. All anchor bolts (1 Nuts & Washers) fastening the rail posts to the structure will be structural steel bolts of the size and length noted, with the end 4 inches of the bolts and the nuts and washers cadmium plated.
Stud bolts shall be of the type, application and location shown on

the plans and will be machined from 6061-T6 alloy rods.
Welding
Welded joints shall be used only when shown on the plans. Welding shall be done by an arc process that does not use a welding flux. All exposed welds shall be finished by grinding or filing to give a neat smooth finish.

DESIGN: A.D.M.
DRAWN: A.S.
CHECKED: A.M.D.
APPROVED: M.S.

DATE		BY		REVISIONS	

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK

DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS

WILLIAM NORTHWICK
SUPERINTENDENT OF HIGHWAYS

MONTROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

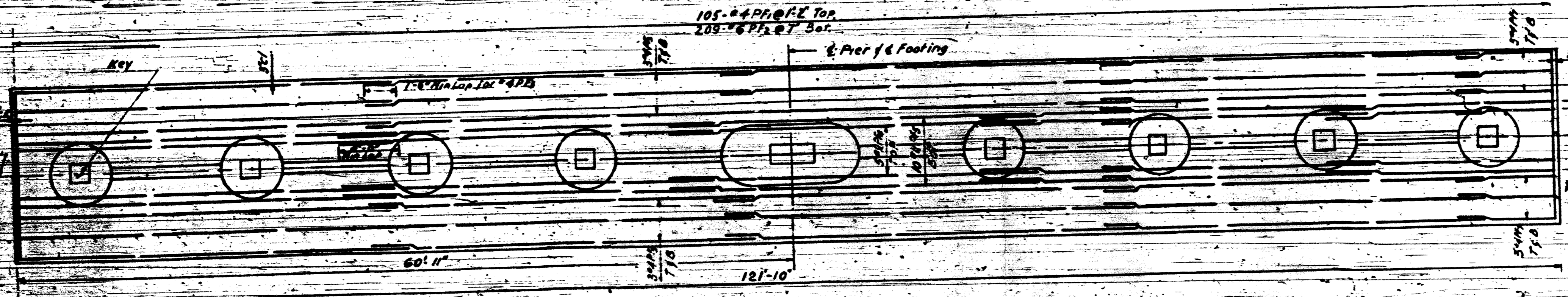
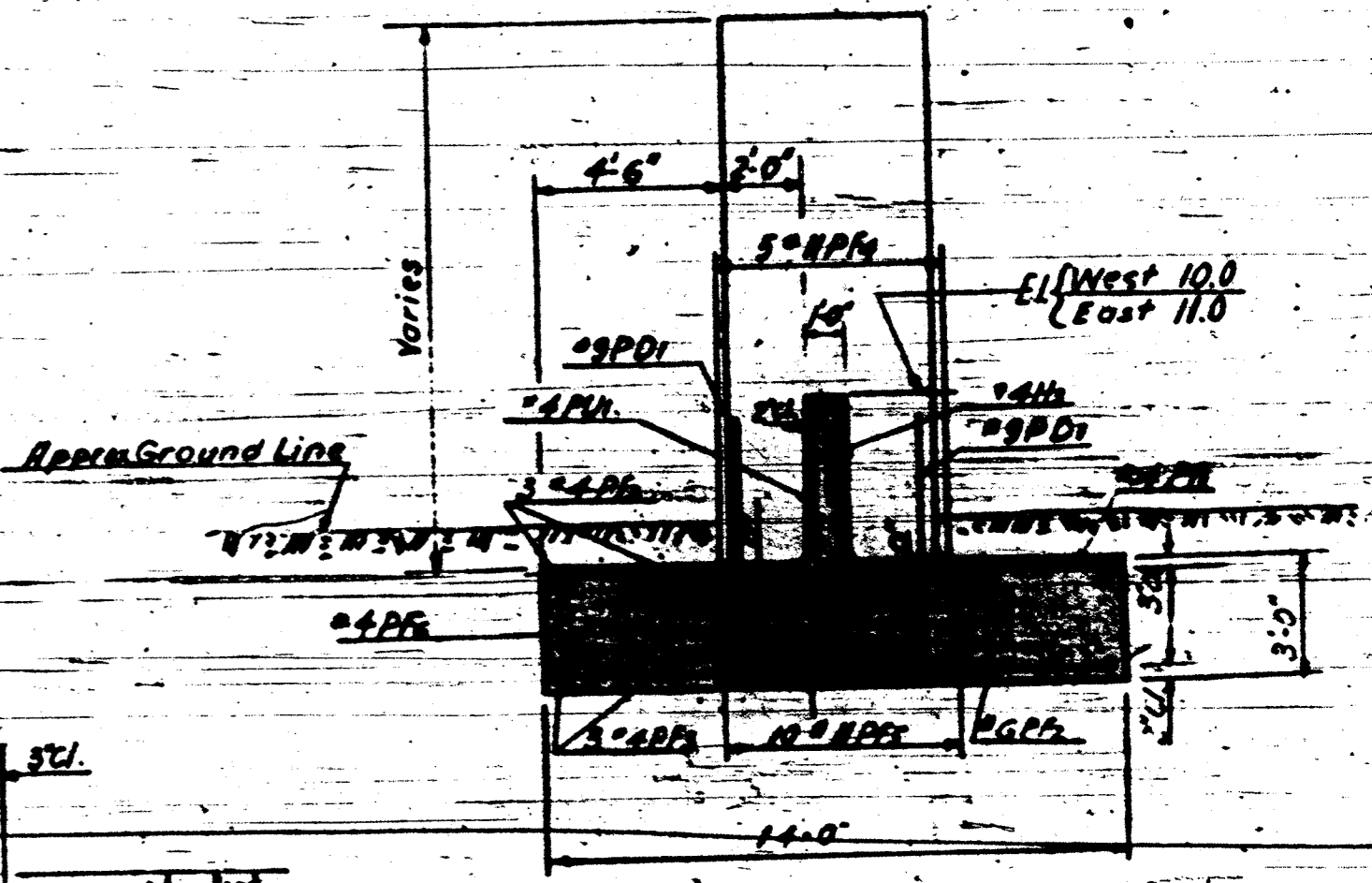
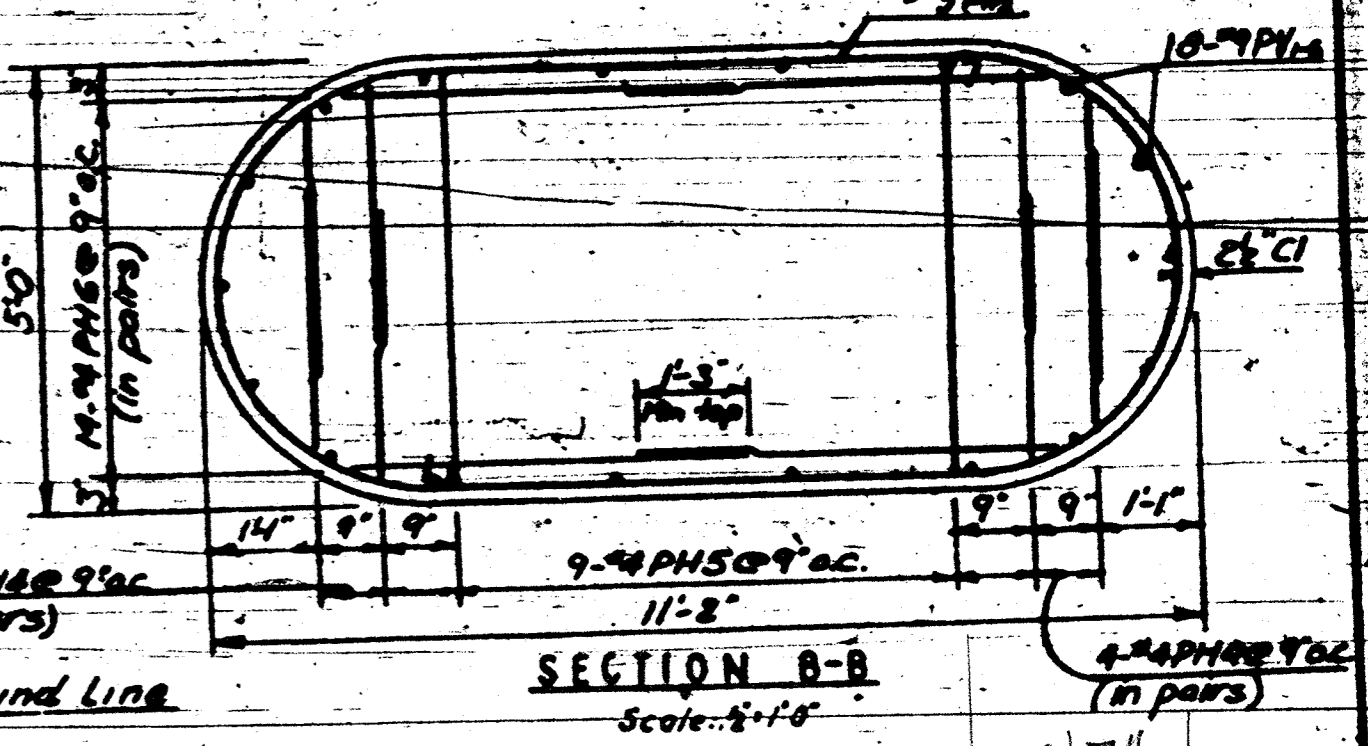
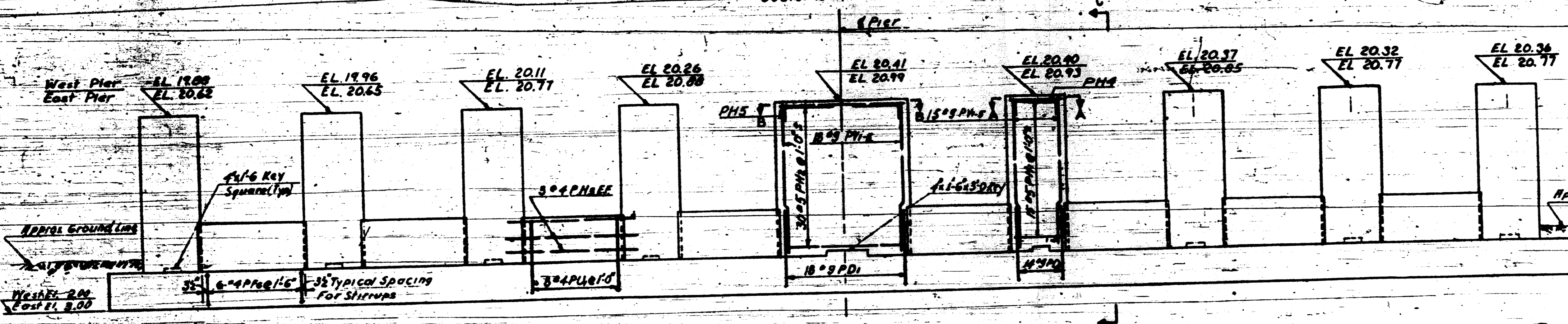
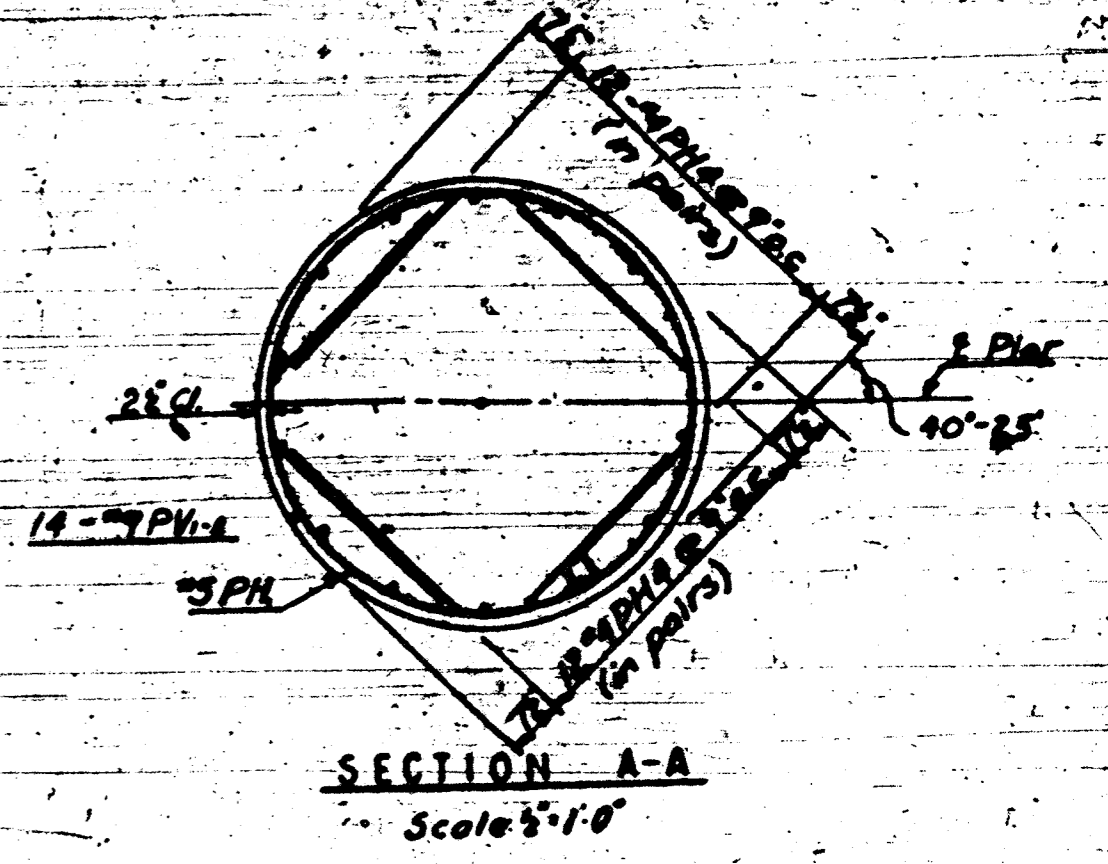
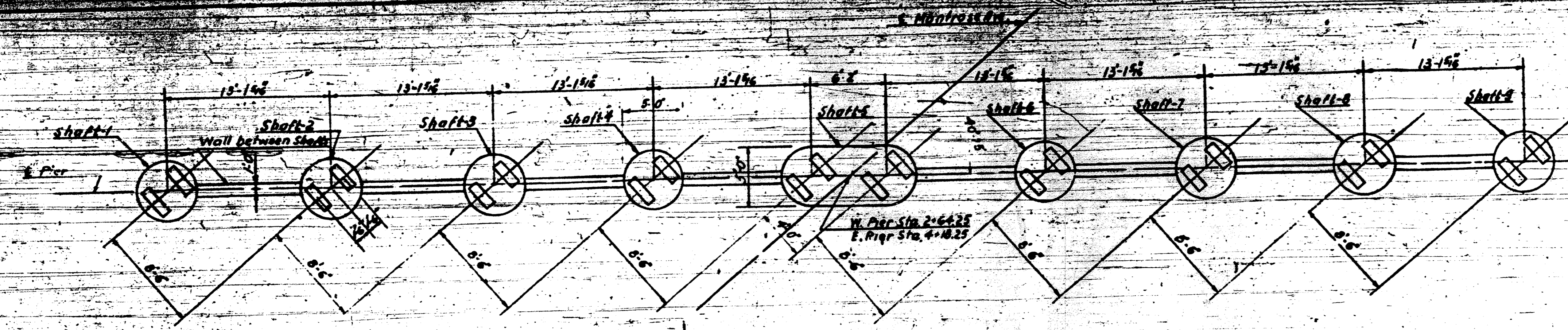
METAL RAILING - TYPE A - DETAILS

SECTION 263-0213-01
DRAWING NO. 10

DATE 7-8-57

THE PRELOAD CO. INC. CONSULTING ENGINEERS
27 EAST 37th STREET NEW YORK 18, N.Y.

F.A.I. 94



WEST PIER ELEVATION
(East Pier Elevation Similar)
Scale: 3/16"=1'-0"

FOOTING PLAN
Scale: 3/16"=1'-0"

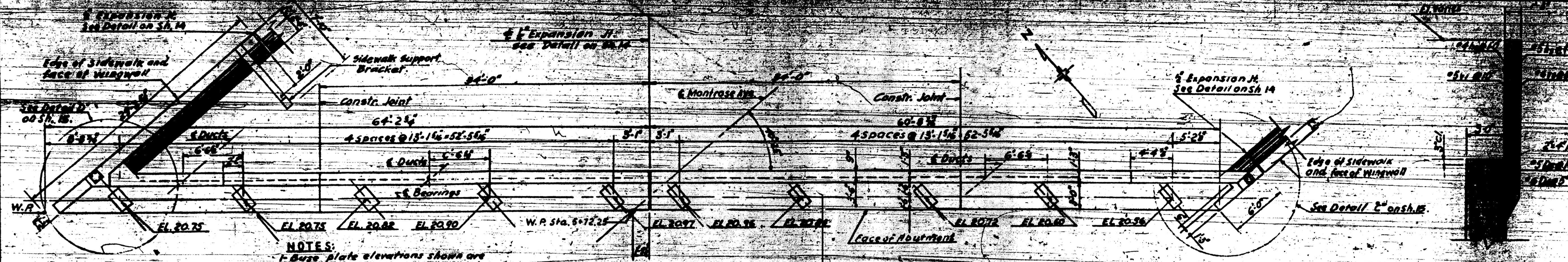
NOTES:
1. See note elevating shafts on drawing sheet 10-27/12
2. For details of footing shafts see sheet 10-28/12
3. For location of fixed end and bearings see sheet 10-29/12
4. For list of materials see sheet 10-30/12

DESIGNED: N.B.
DRAWN: M.P.
CHECKED: E.V.

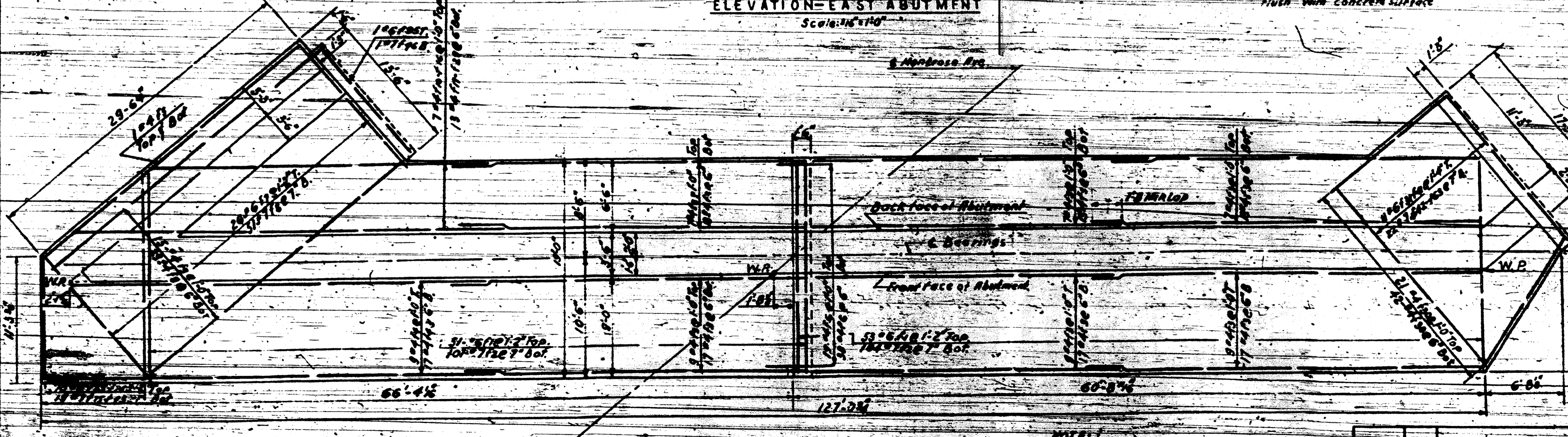
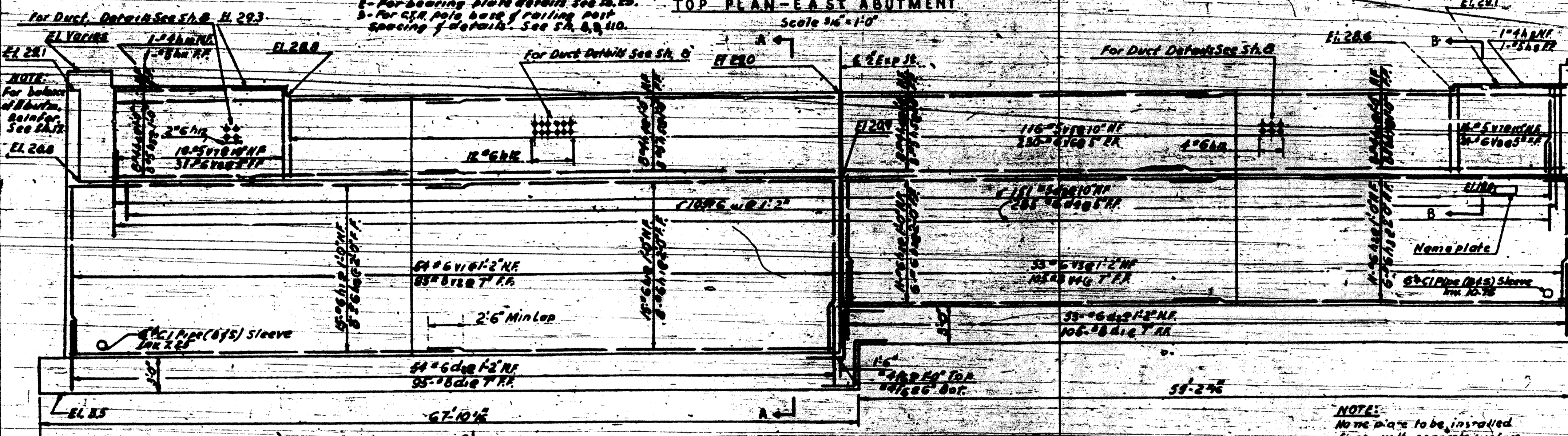
FAI 94

DATE	BY	REVISIONS

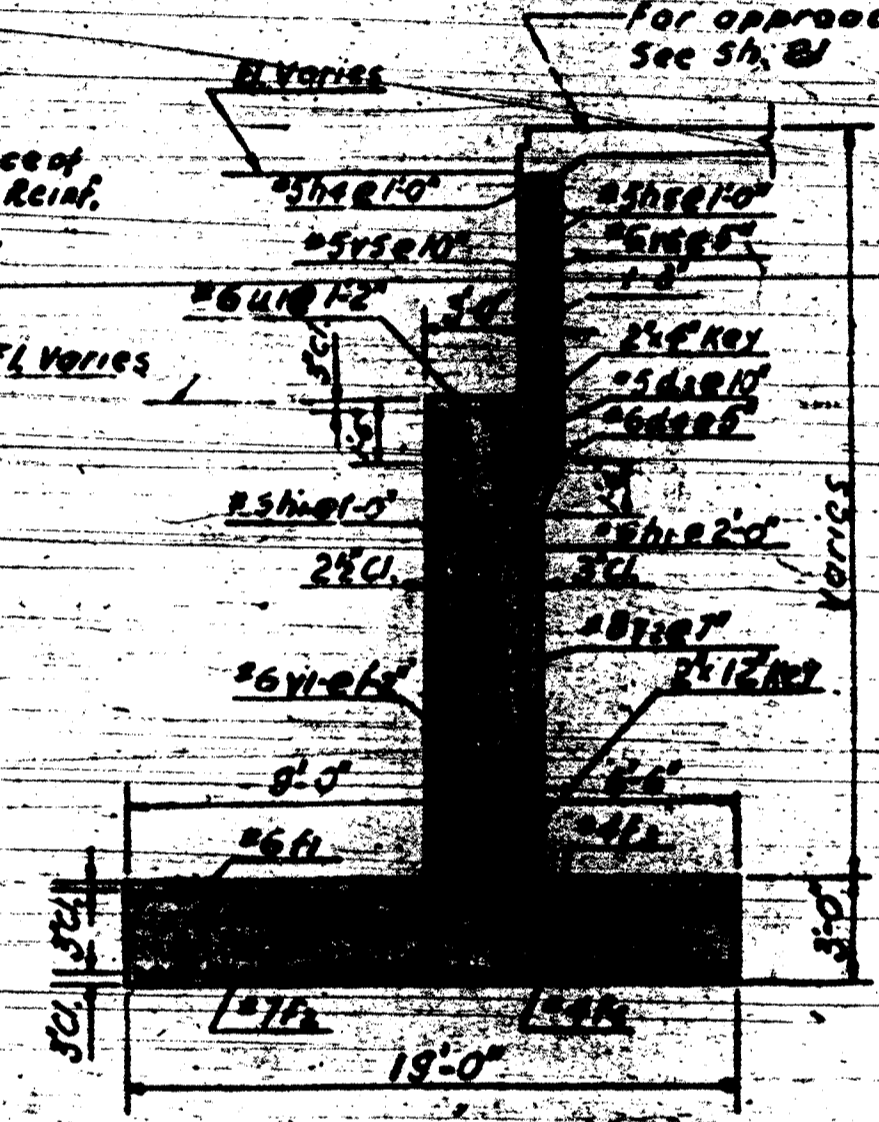
DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK
DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS
WILLIAM J. MORTIMER
SUPERINTENDENT OF HIGHWAYS
MONTROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE
WEST & EAST PIERS
SECTION 103-DIGEST
DRAWING NO. 12
THE PRELOAD CO. INC. CONSULTING ENGINEERS
211 EAST 37 STREET NEW YORK 18, N.Y. 3-24-57



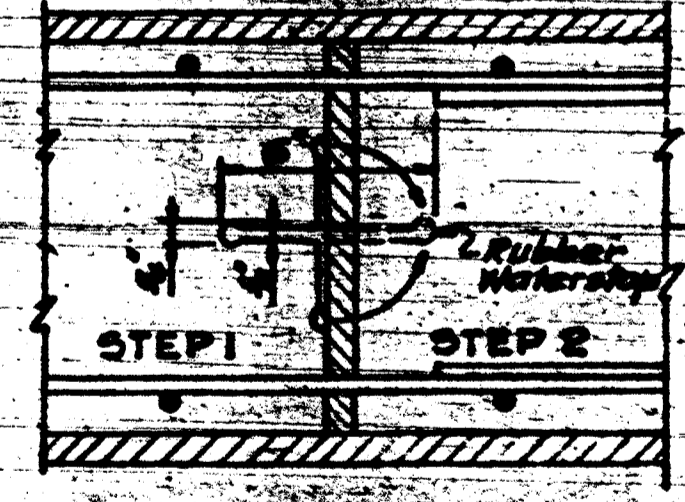
NOTES:
 1- Base plate elevations shown are to the bottom surface of base plate
 2- For bearing plate details see Sh. 23
 3- For C&G pole base & rolling post spacing details see Sh. 8 & 110



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



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



DESIGN: N.B.
 DRAWN: W.J.
 CHECKED: A.B.
 APPROVED: M.S.

FOOTING PLAN EAST ABUTMENT
Scale 1/4" = 1'-0"

F.A.I. 94

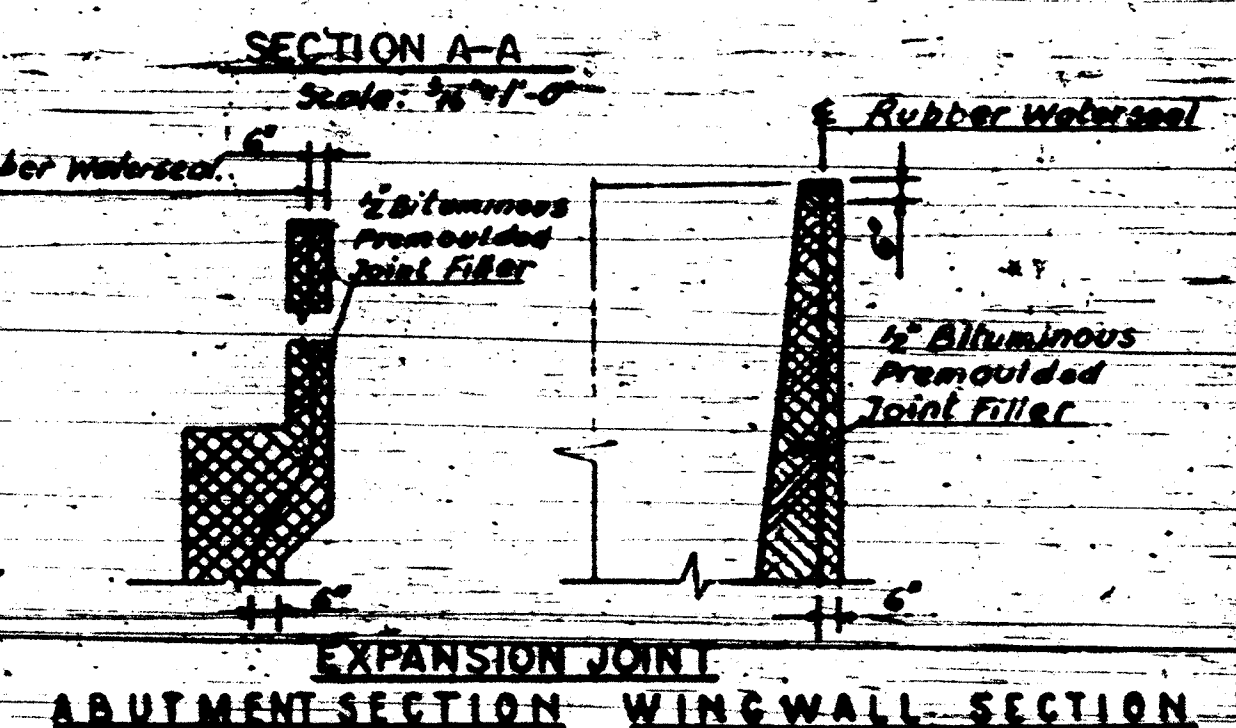
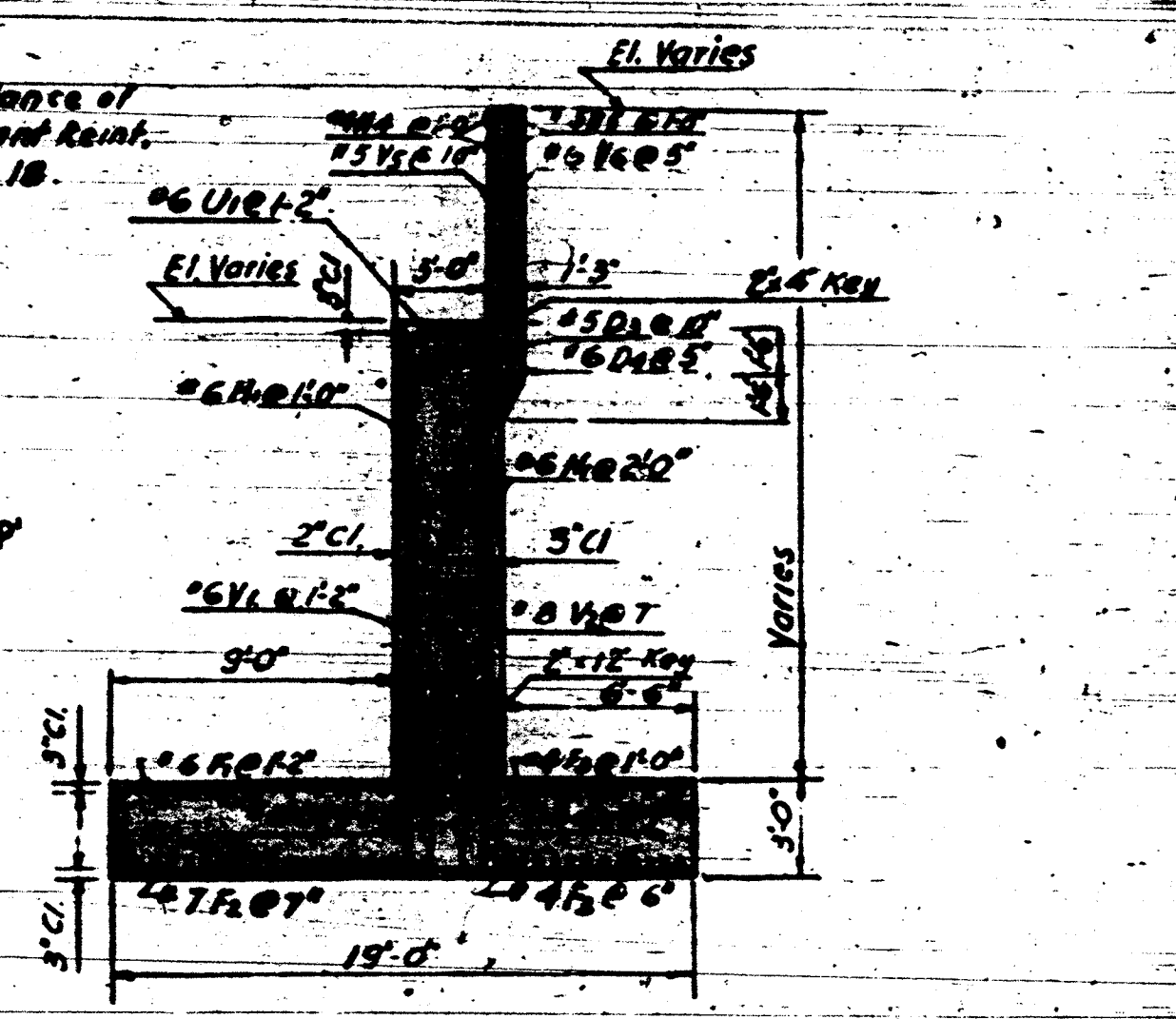
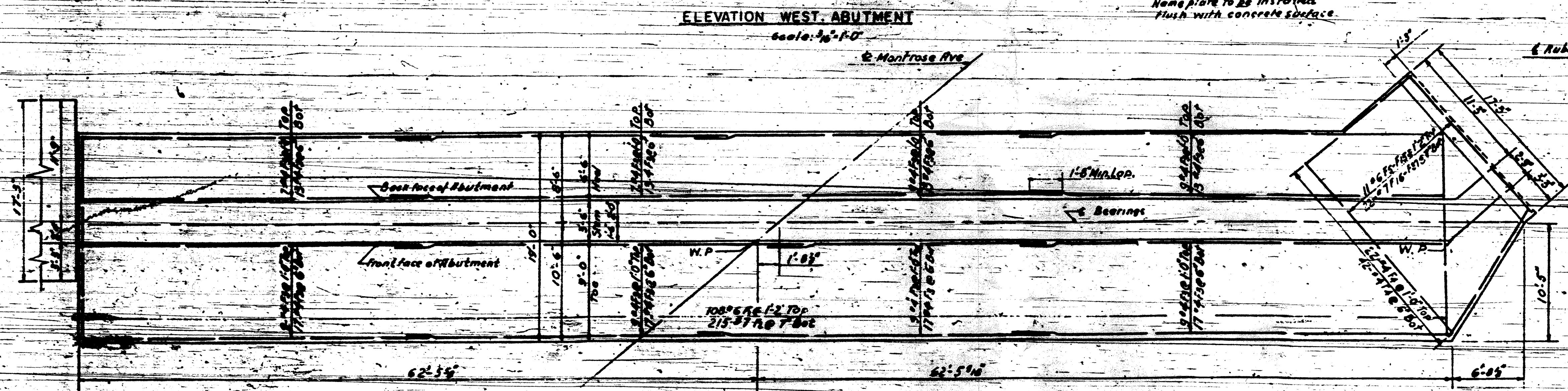
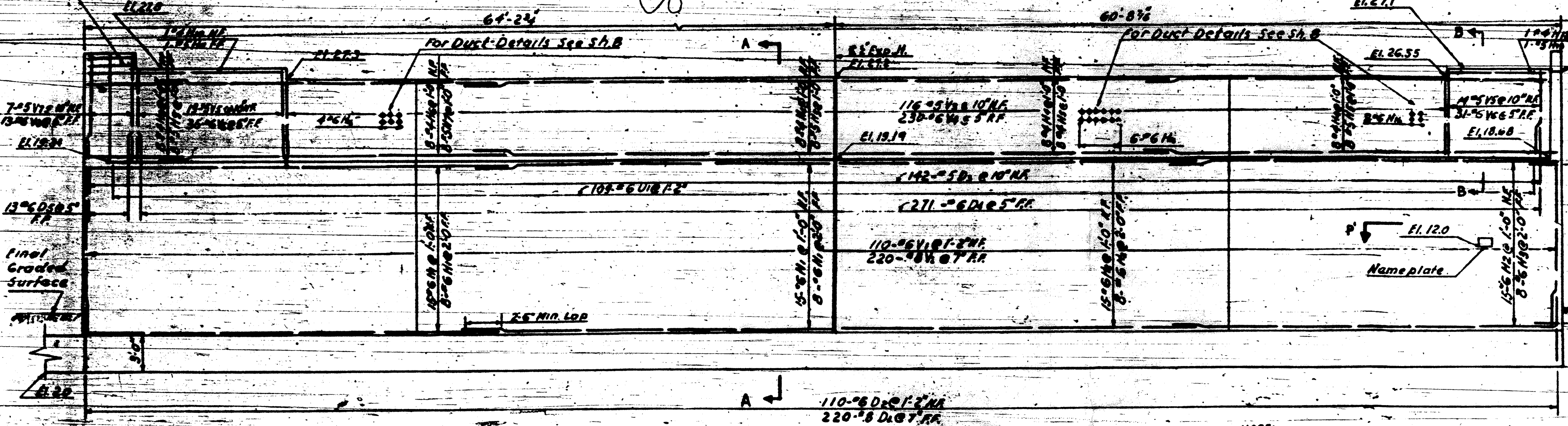
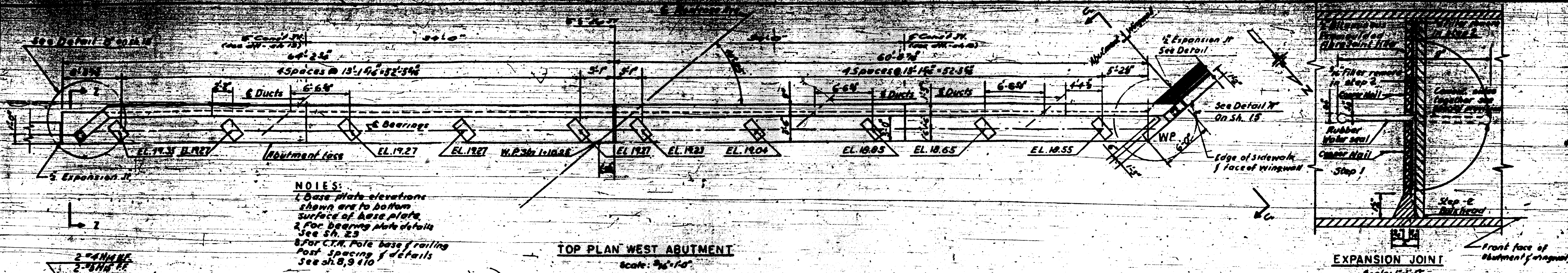
DEPARTMENT OF HIGHWAYS
 OF THE
 COUNTY OF COOK
 DANIEL RYAN
 PRESIDENT BOARD OF COMMISSIONERS
 WILLIAM NORTHROP
 SUPERVISOR OF HIGHWAYS

**MONTROSE AVE GRADE SEPARATION
 OVER
 EDENS & NORTHWEST EXPRESSWAY INTERCHANGE**

EAST ABUTMENT

THE PRELOAD CORP.
 CONSULTING ENGINEERS
 215 EAST 117TH STREET
 NEW YORK 16, N.Y.

SECTION NO. 15
 DRAWING NO. 15
 DATE 2-21-57



DESIGN	M.B.
DRAWN	W.J.
CHECKED	
APPROVED	

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

NOTE:
For bar schedule & bill of material see Sh. 16.

F.A.I. 94	
DATE BY	REVISIONS

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK

DANIEL STYAN
PRESIDENT BOARD OF COMMISSIONERS

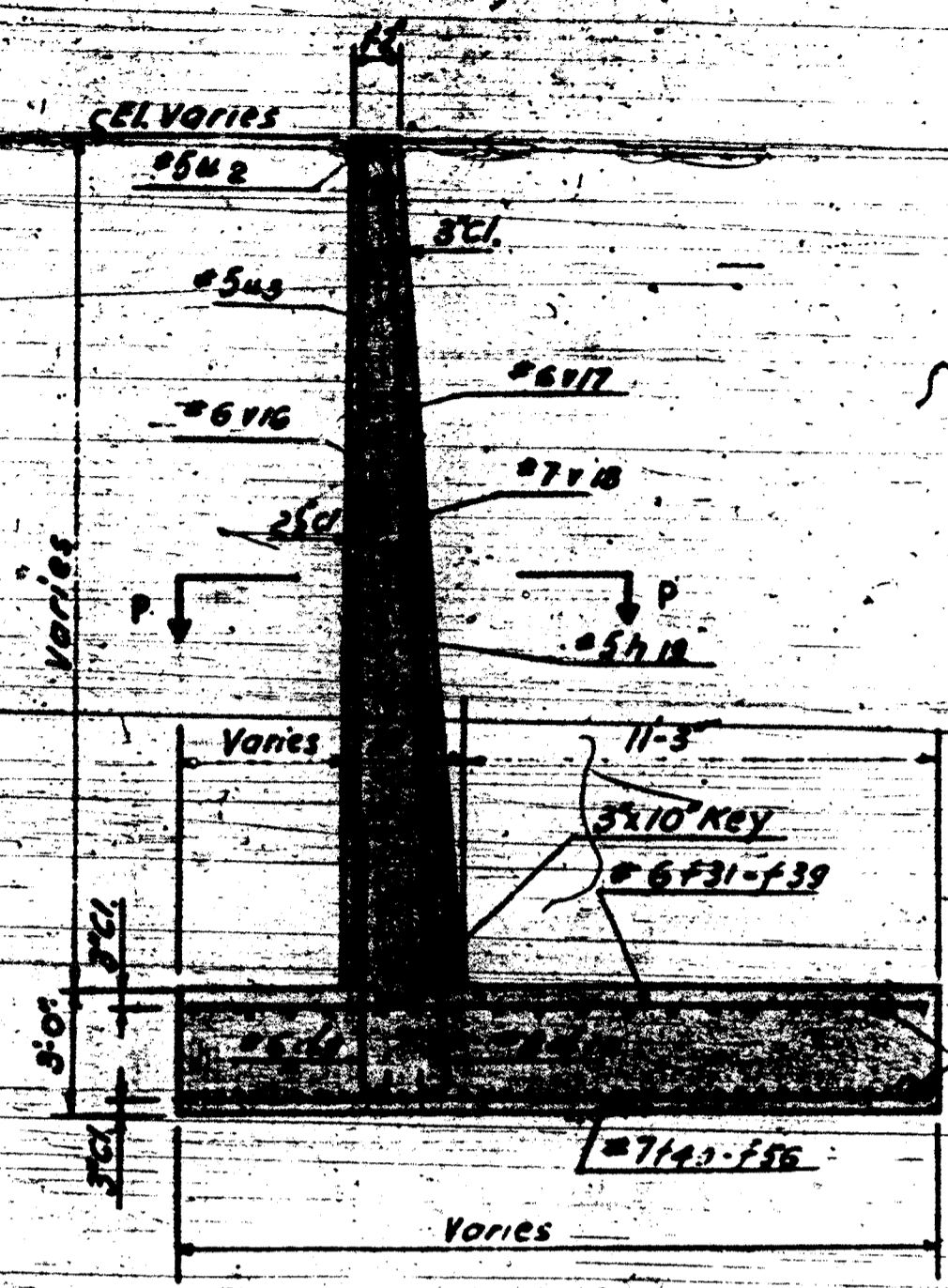
WILLIAM LINDSEY
SUPERVISOR DEPARTMENT OF HIGHWAYS

MONTROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

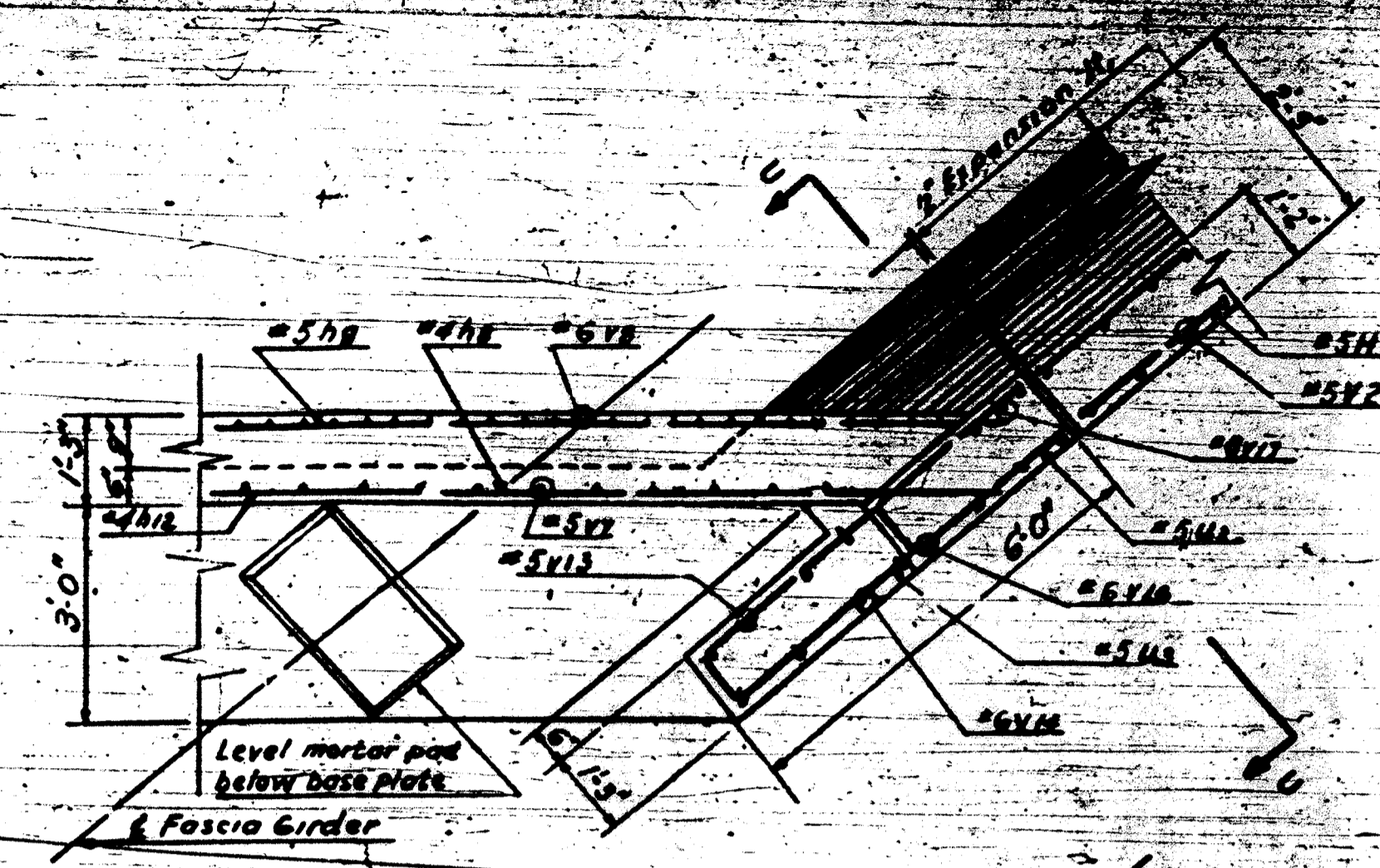
WEST ABUTMENT

THE PRELOAD CO. INC. CONSULTING ENGINEERS
211 EAST 37th STREET NEW YORK 18, N.Y.

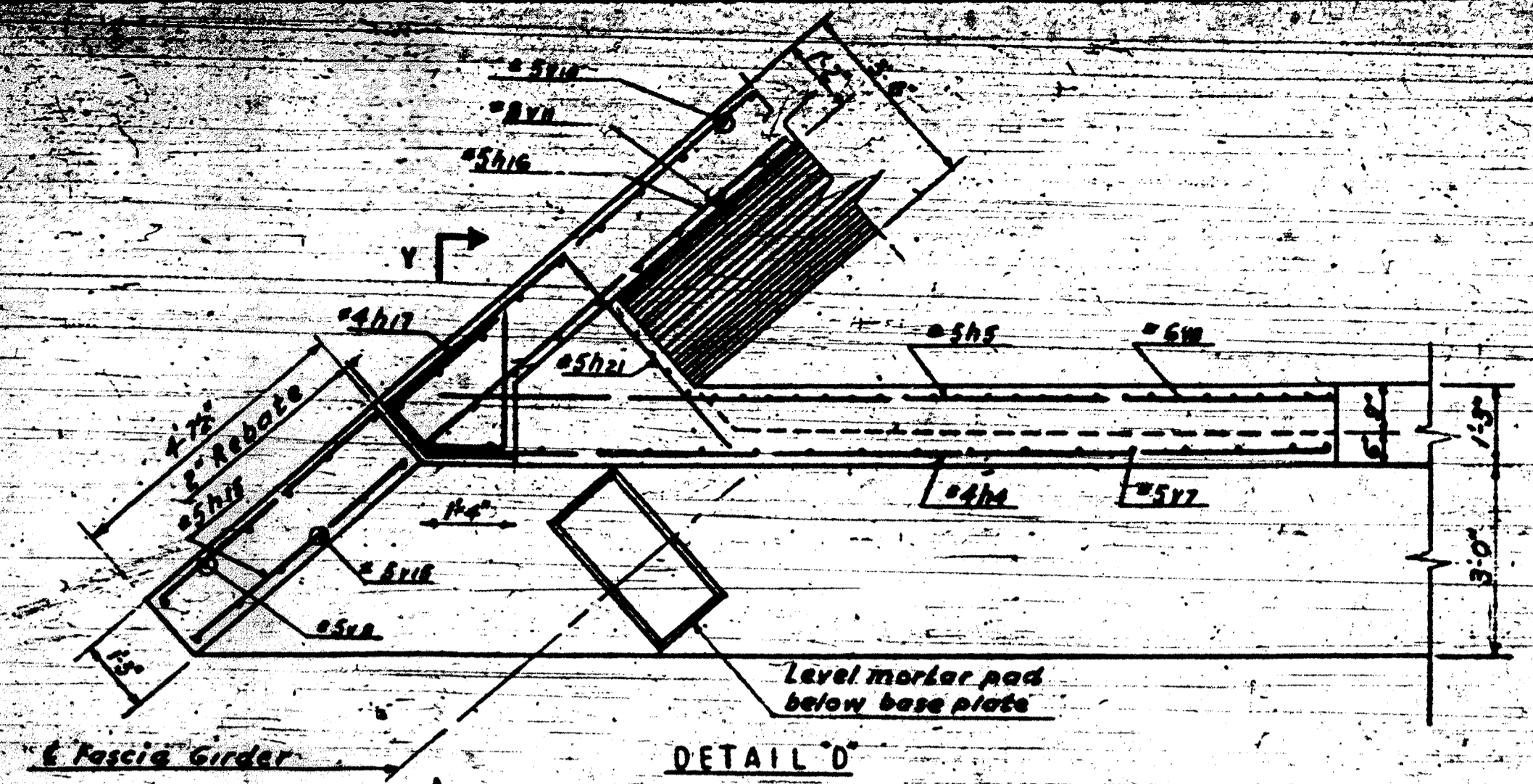
DATE: 7-21-47



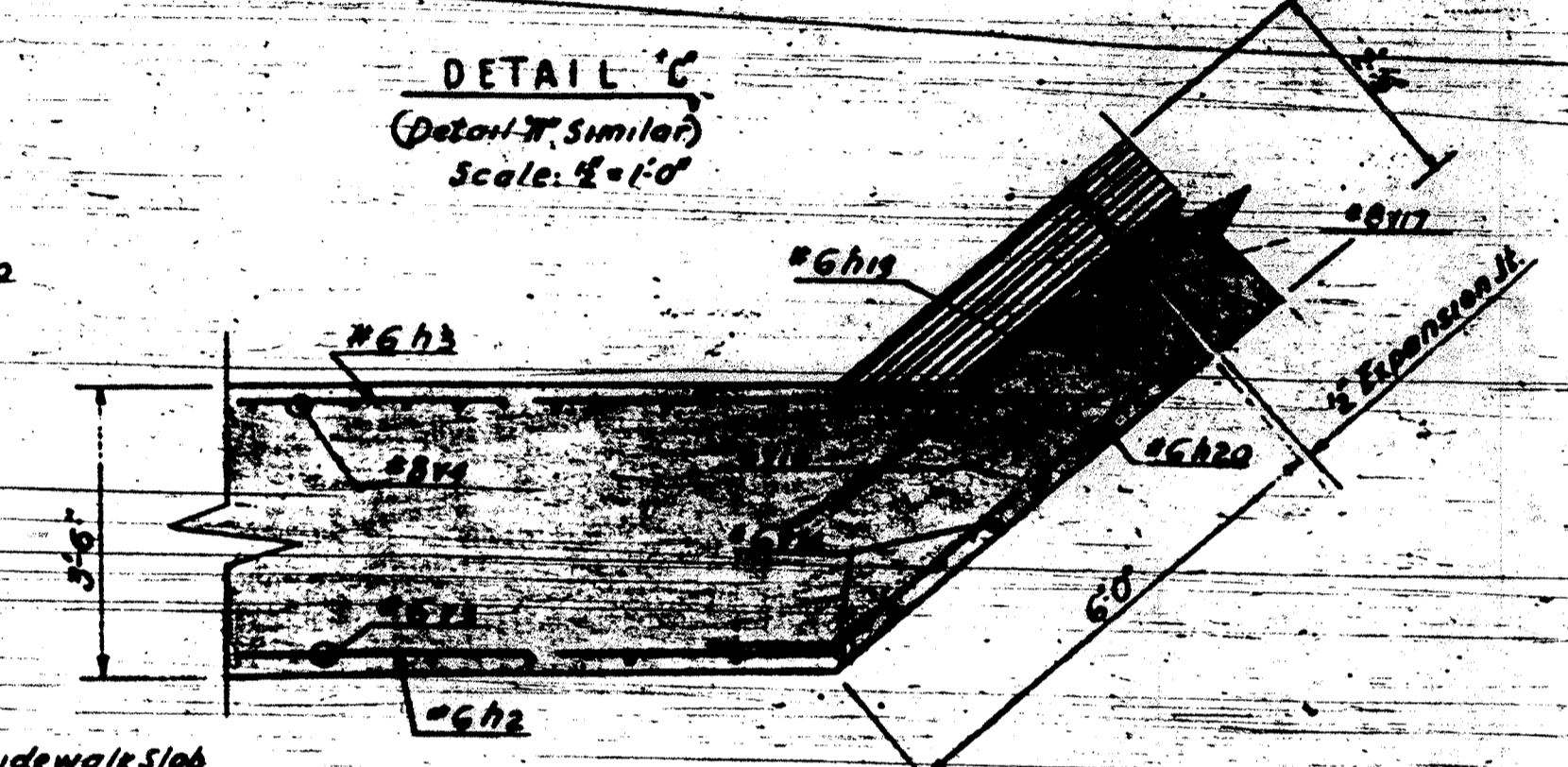
SECTION U-U
(Section U-U Similar)
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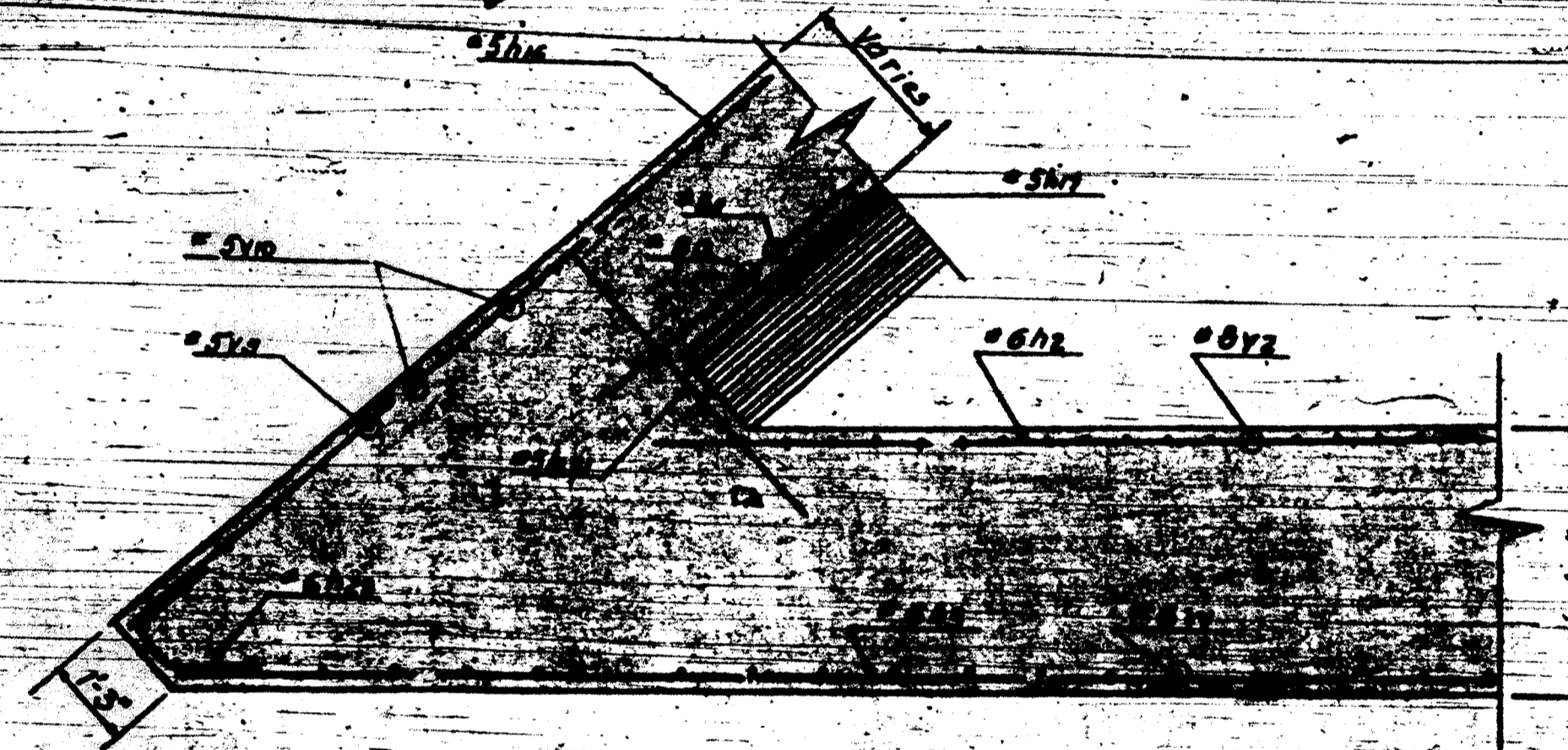
DETAIL C
(Detail C Similar)
Scale: 1/2"=1'-0"



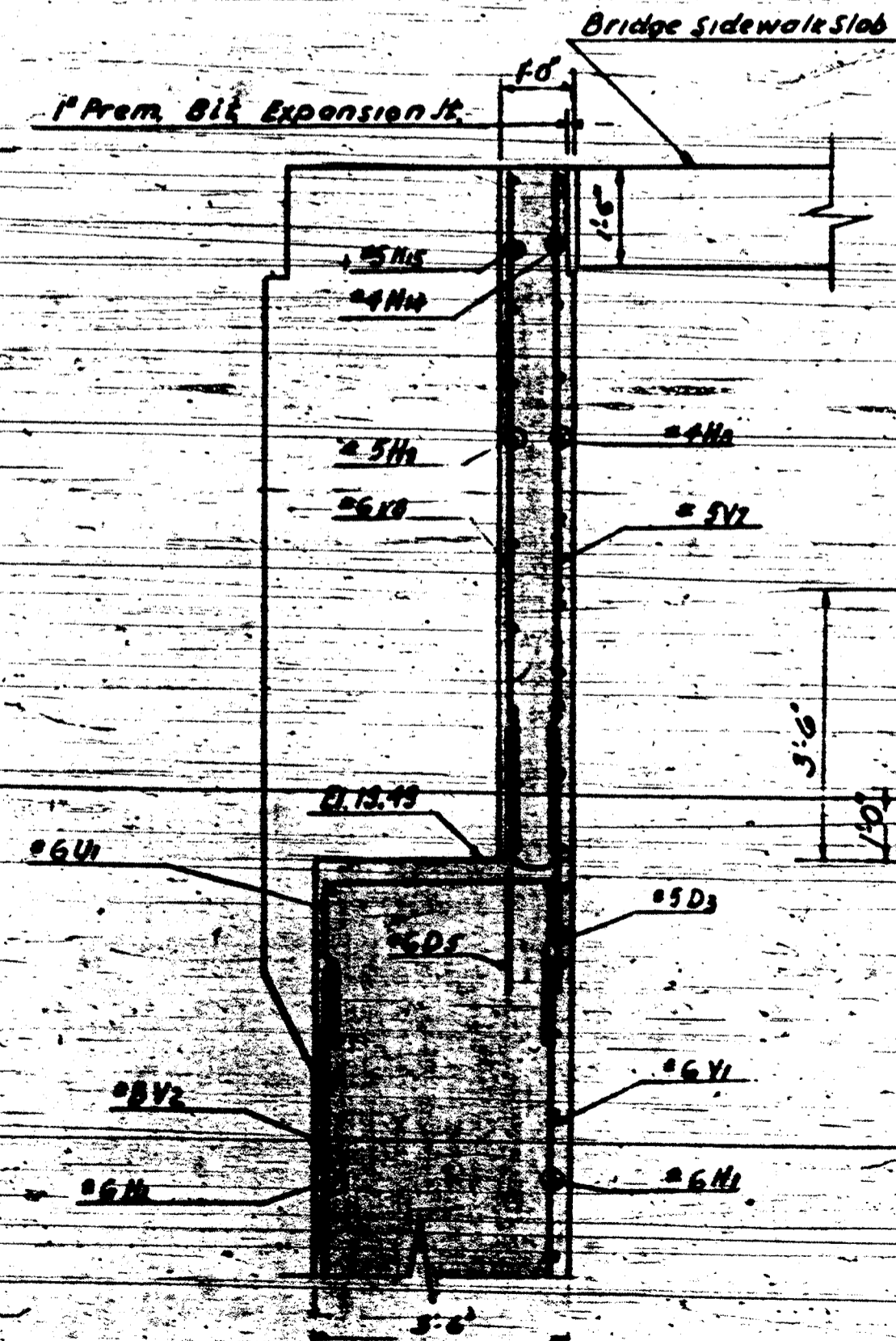
DETAIL D
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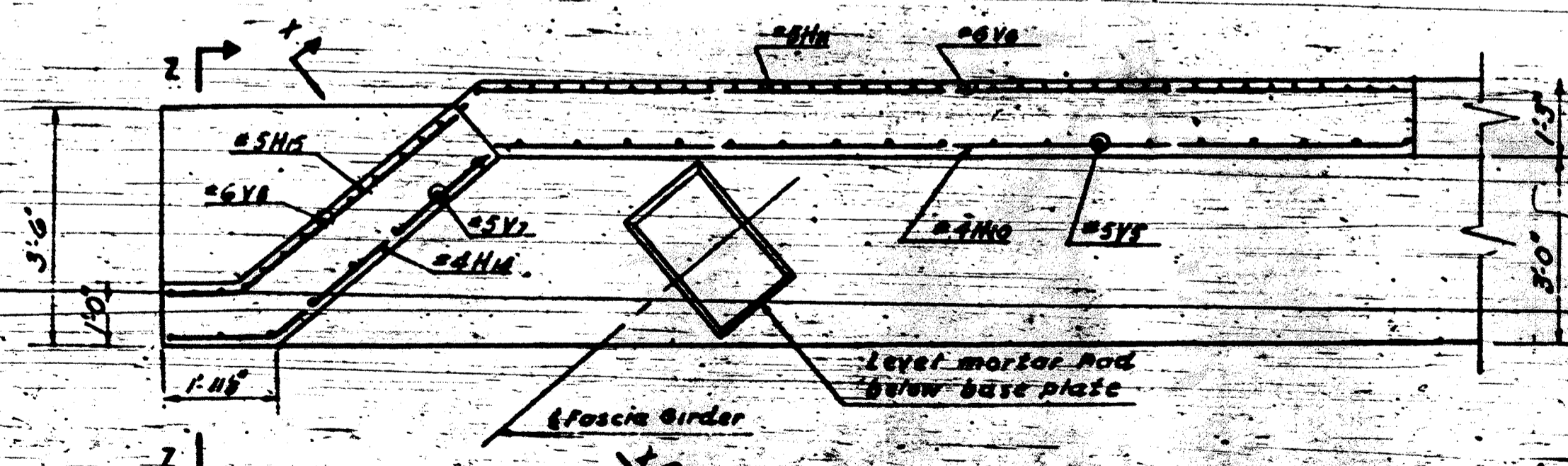
SECTION P-P
(Section P-P Similar)
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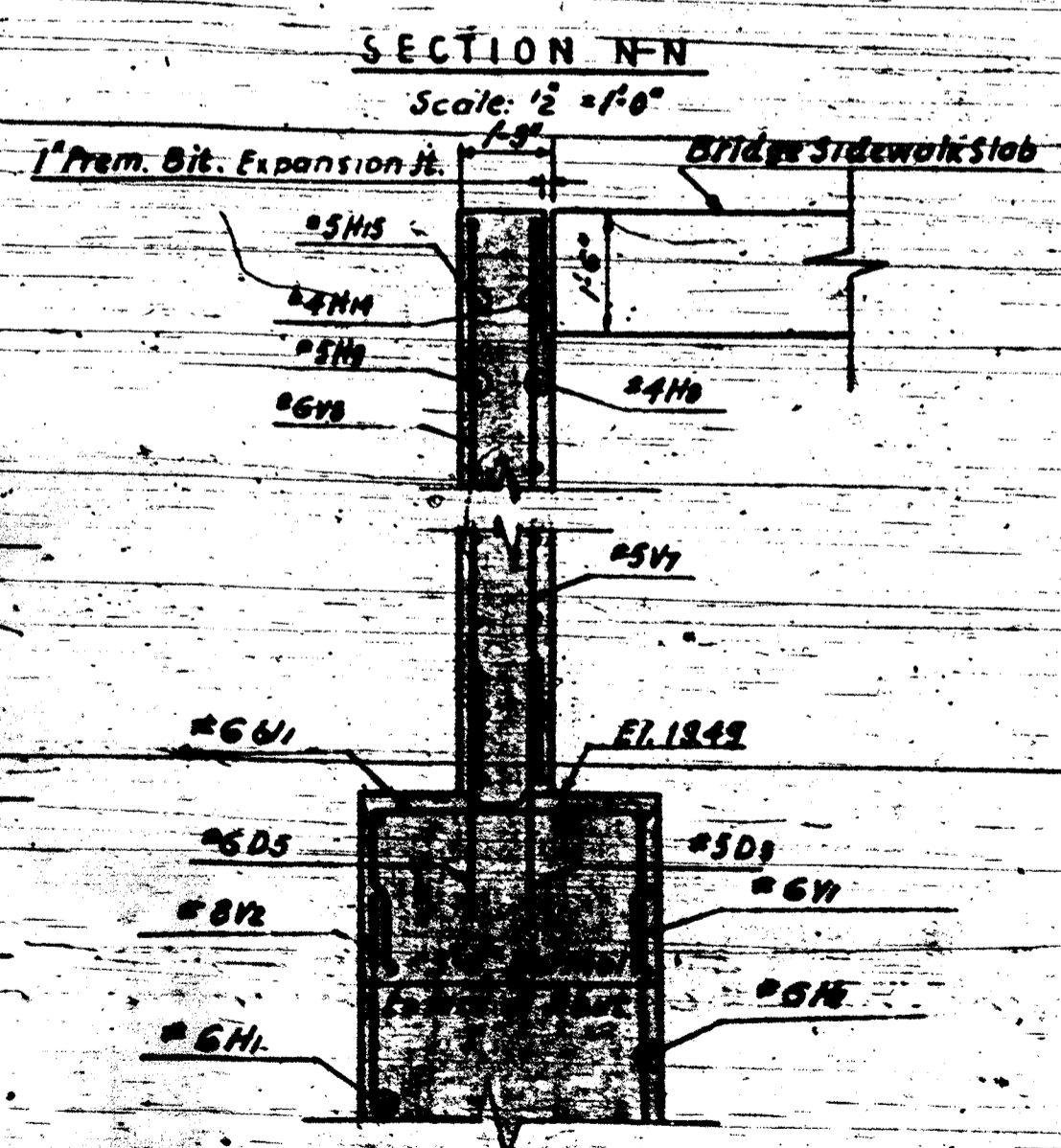
SECTION N-N
(Section N-N Similar)
Scale: 1/2"=1'-0"



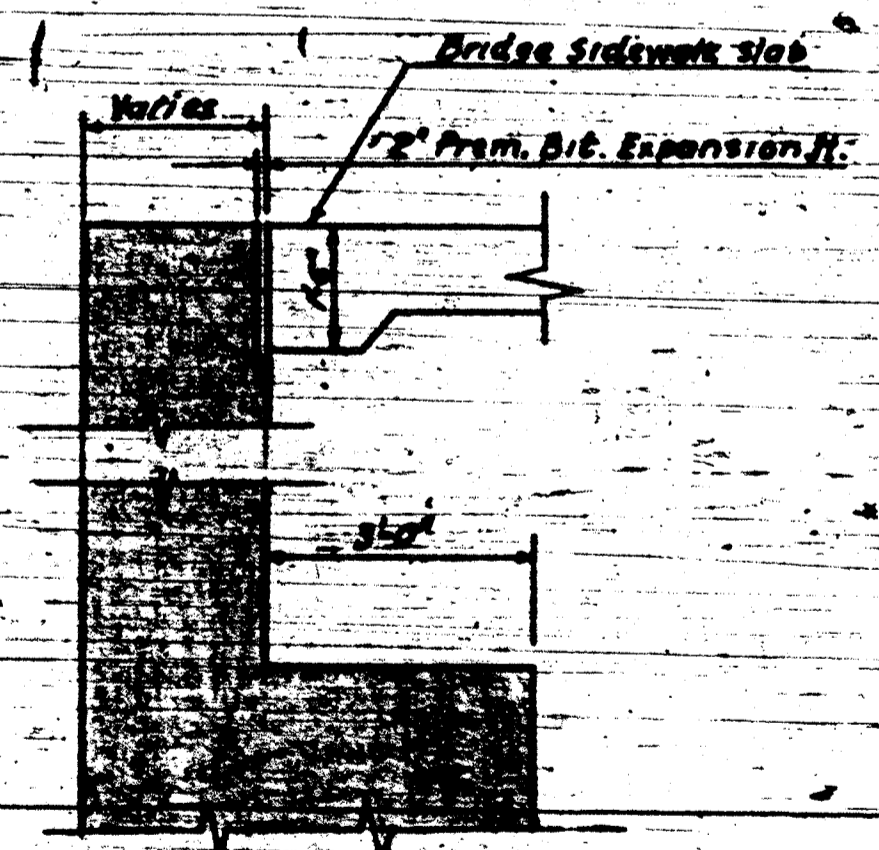
SECTION Z-Z
(Section Z-Z Similar)
Scale: 1/2"=1'-0"



DETAIL B
(Detail B Similar)
Scale: 1/2"=1'-0"



SECTION X-X
(Section X-X Similar)
Scale: 1/2"=1'-0"



SECTION Y-Y
(Section Y-Y Similar)
Scale: 1/2"=1'-0"

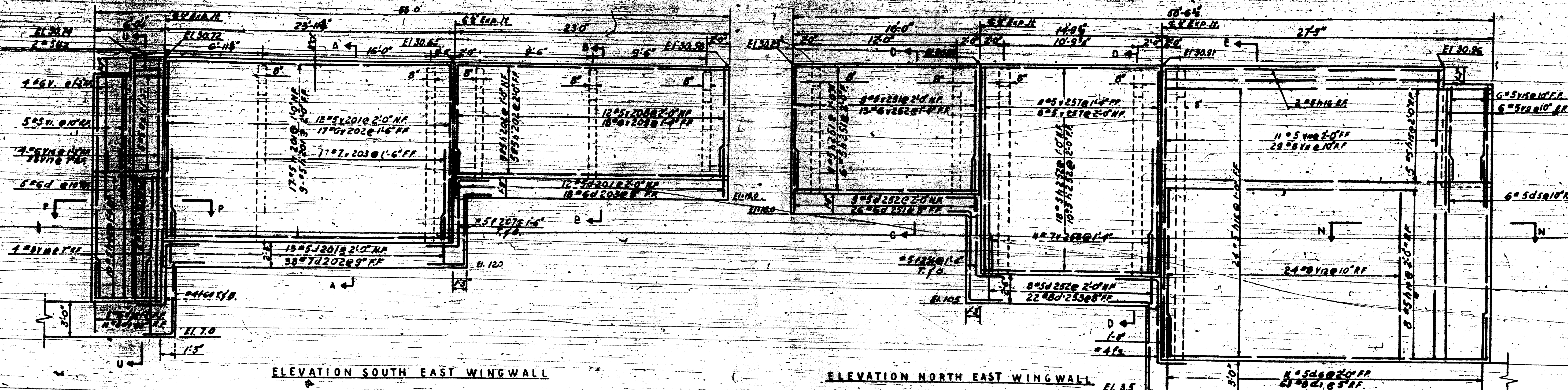
DESIGNED BY: H. D.
CHECKED BY: W. J.
APPROVED BY: A. M. B.

FAI 94

DATE	REVISIONS

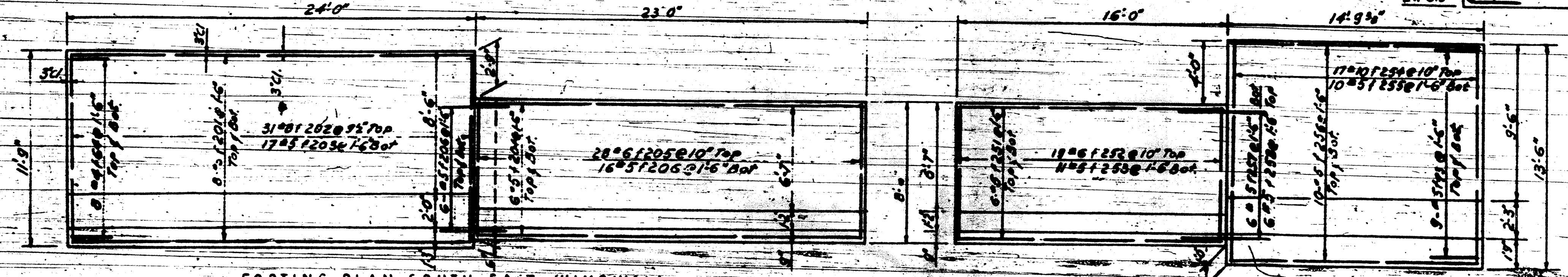
DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK
DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS
WILLIAM J. MORTIMER
SUPERINTENDENT OF HIGHWAYS
MONTROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE
ABUTMENT DETAILS
THE PRELOAD CO. INC. CONSULTING ENGINEERS
11 EAST 57th STREET NEW YORK 19, N.Y.
SECTION 100-1000-100
DRAWING NO. 100-1000-100
DATE 9-20-54

NOTE:
For Railing Spacing
& Details See Sheets 9410



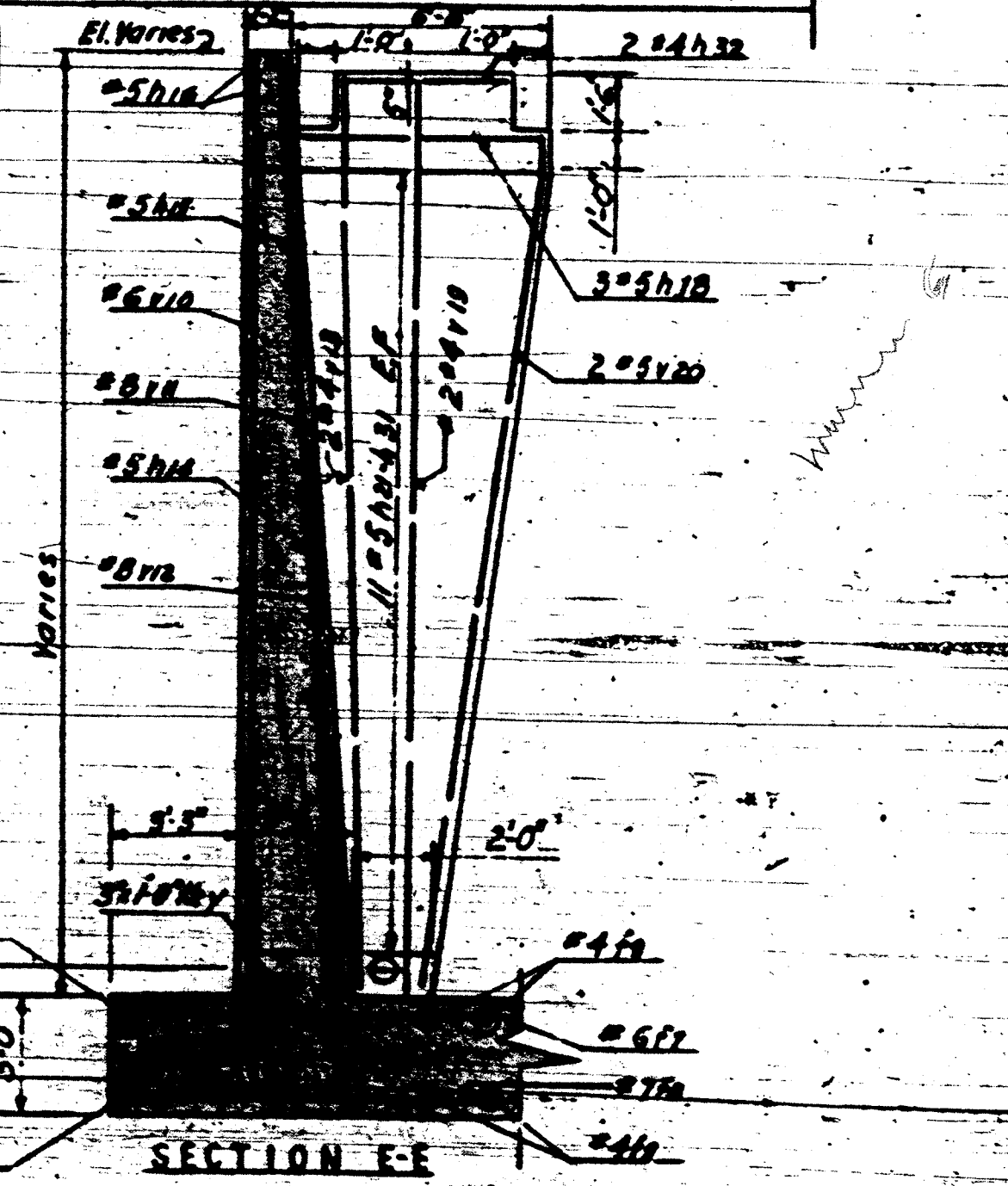
ELEVATION SOUTH EAST WINGWALL

ELEVATION NORTH EAST WINGWALL



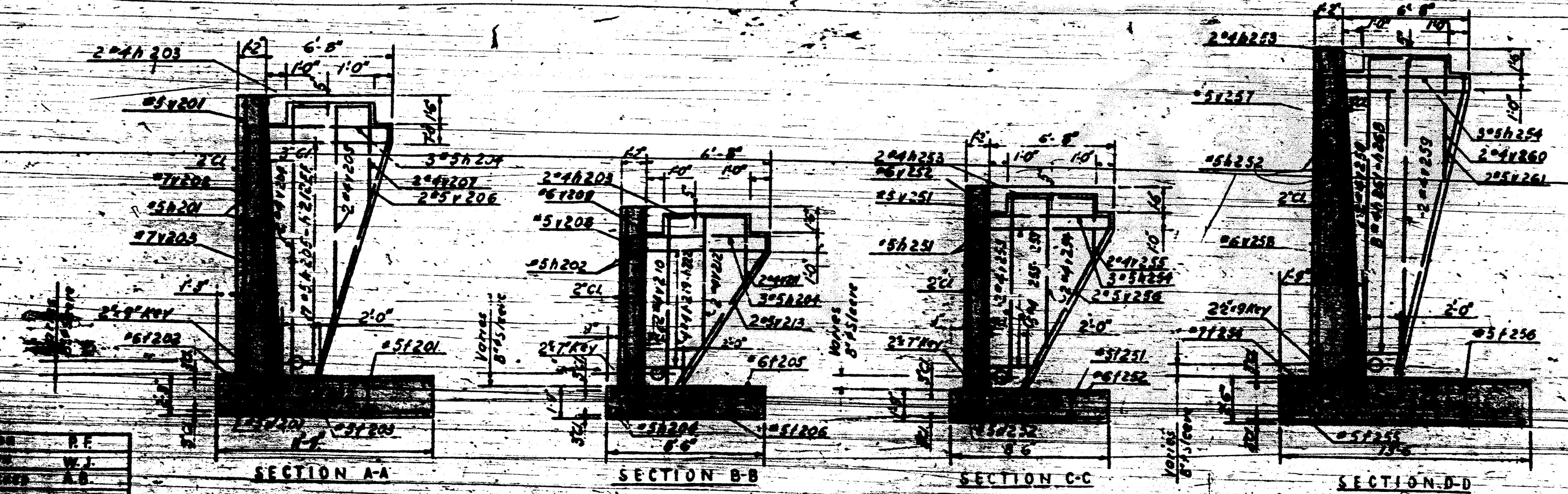
FOOTING PLAN SOUTH EAST WINGWALL

FOOTING PLAN NORTH EAST WINGWALL



SECTION E-E

- NOTES
- Scale 1/4" = 1'-0"
 - For bar list see sheet 9420
 - For Bill of Material see sheet 9410
 - For Section N-N, P-P, U-U see sheet 9415
 - For details of cond. exp. jts. see sheet 9414



SECTION A-A

SECTION B-B

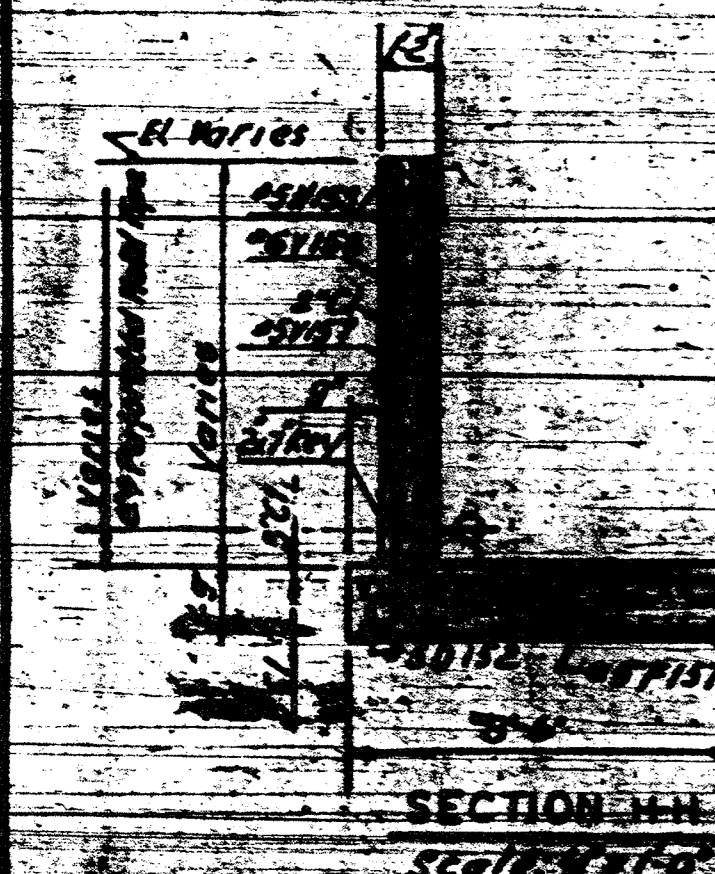
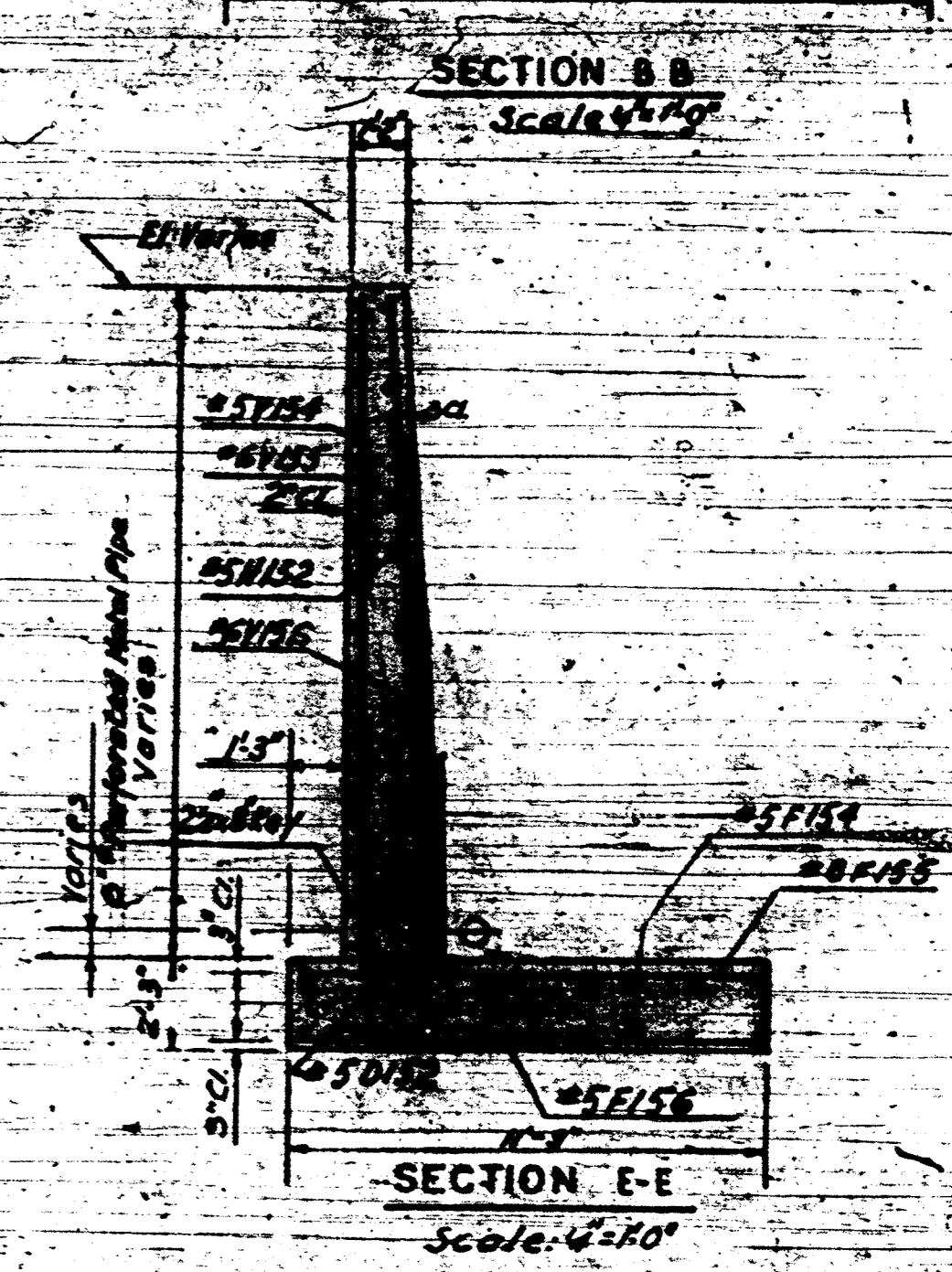
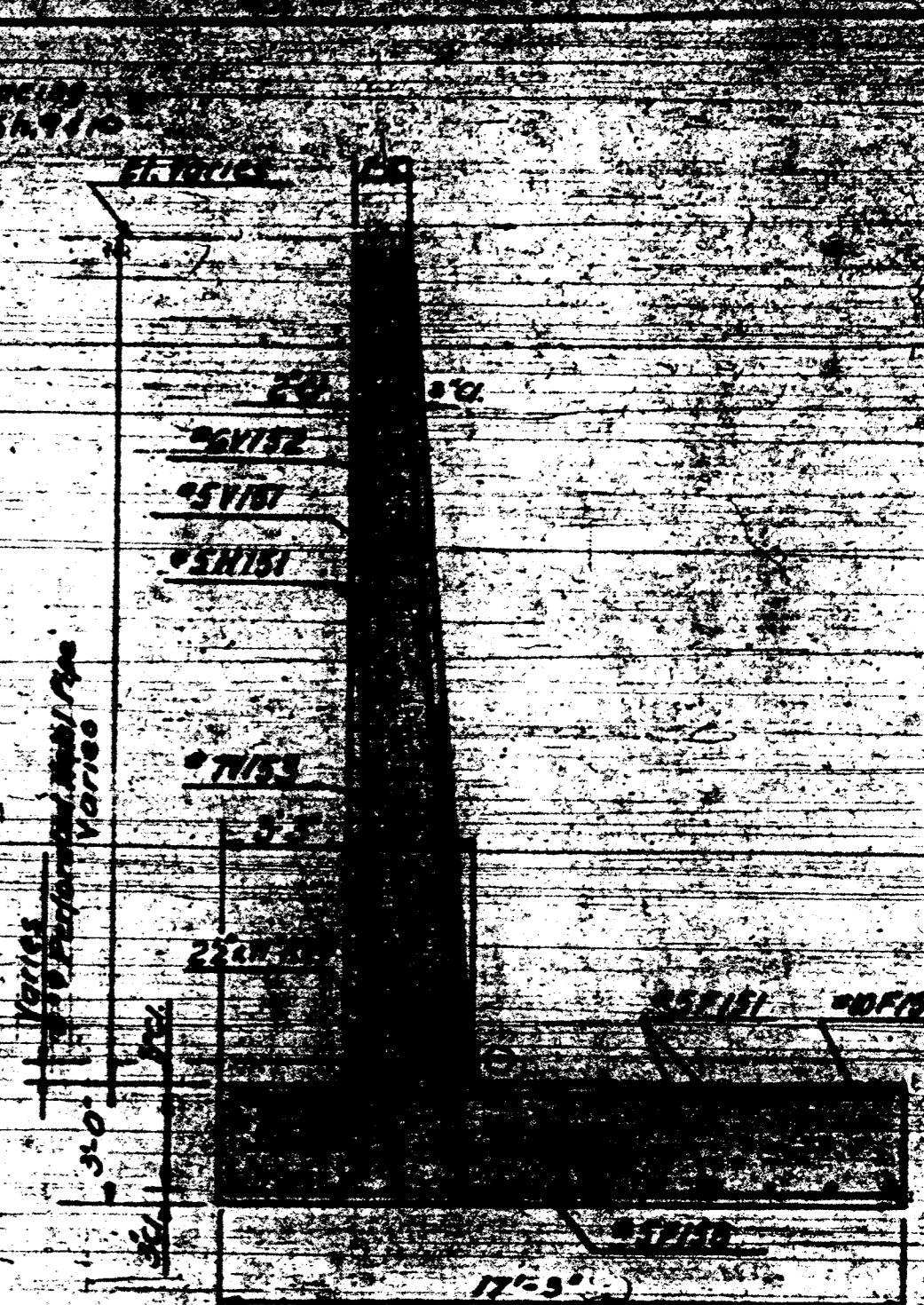
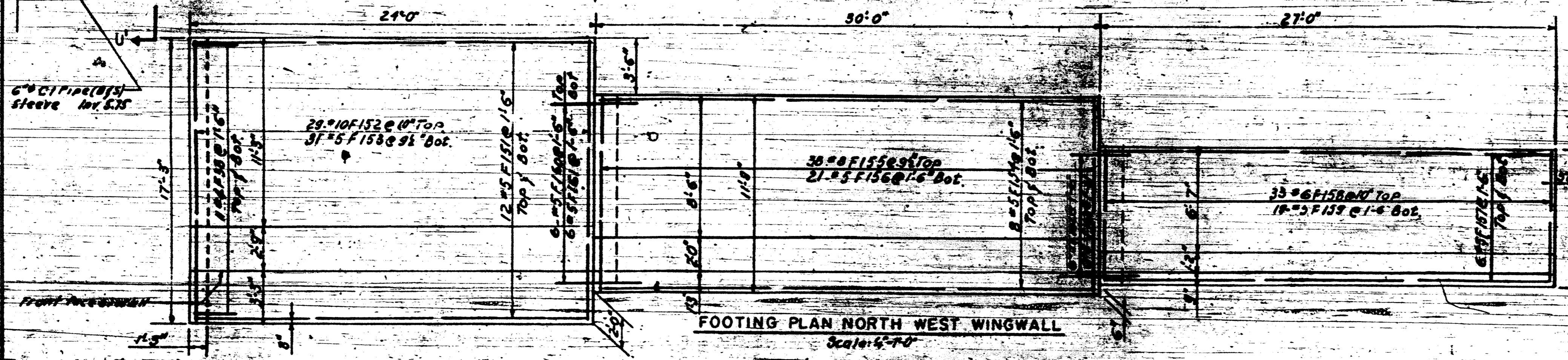
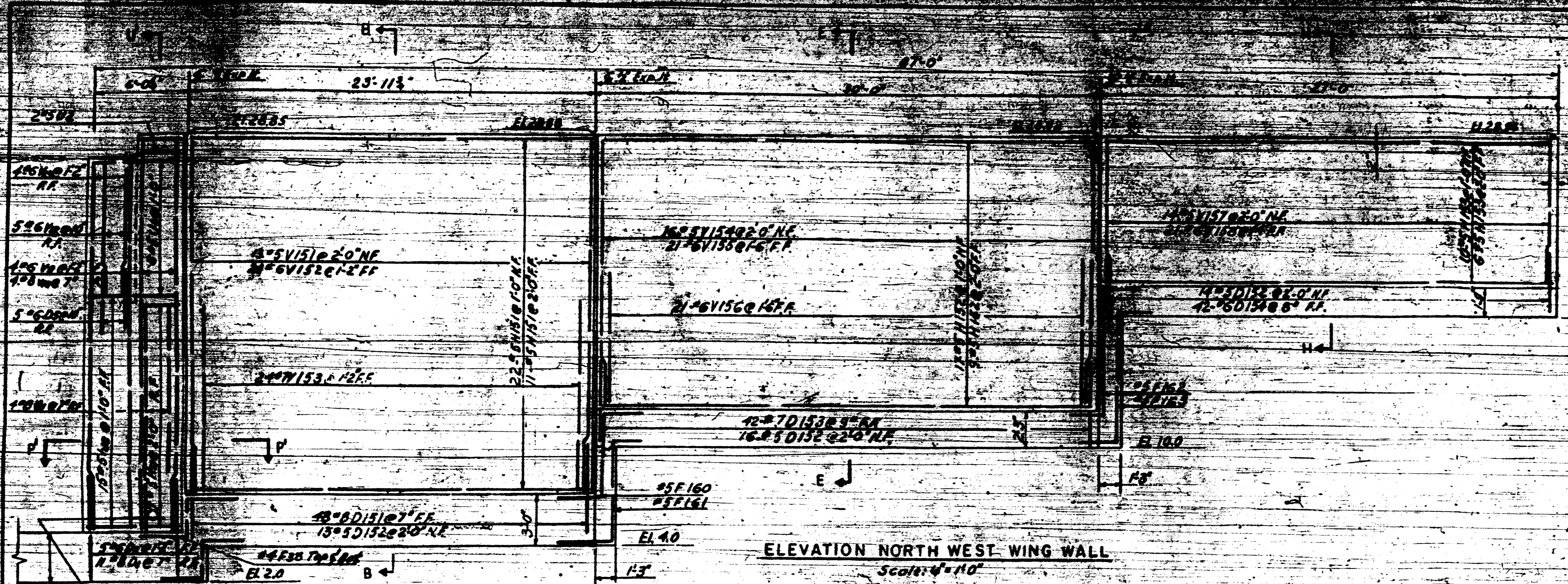
SECTION C-C

SECTION D-D

F.A.I. 94

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK
DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS
WILLIAM J. MORTIMER
SUPERINTENDENT OF HIGHWAYS
MONTROSE AVE. GRADE SEPARATION
OVER
EDEN & NORTHWEST EXPRESSWAY INTERCHANGE

EAST ABUTMENT WINGWALLS
THE PRELOAD CO. INC.
114 EAST 37th STREET
NEW YORK, N.Y.
CONSULTING ENGINEERS
DATE: BY: REVISIONS: SHEET NO. DATE: 8-31-97



Note:
For Section U-U & P-P, see Sh. 18
For Bar List, see Sh. 19
For Bar List, see Sh. 20
For details of walls, see Sh. 11 & 12

DESIGNER: P.F.	DATE: 11-1-57
DRAWN: W.J.	
CHECKED: A.B.	
APPROVED: M.S.	

FAI 94

**DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK**

DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS

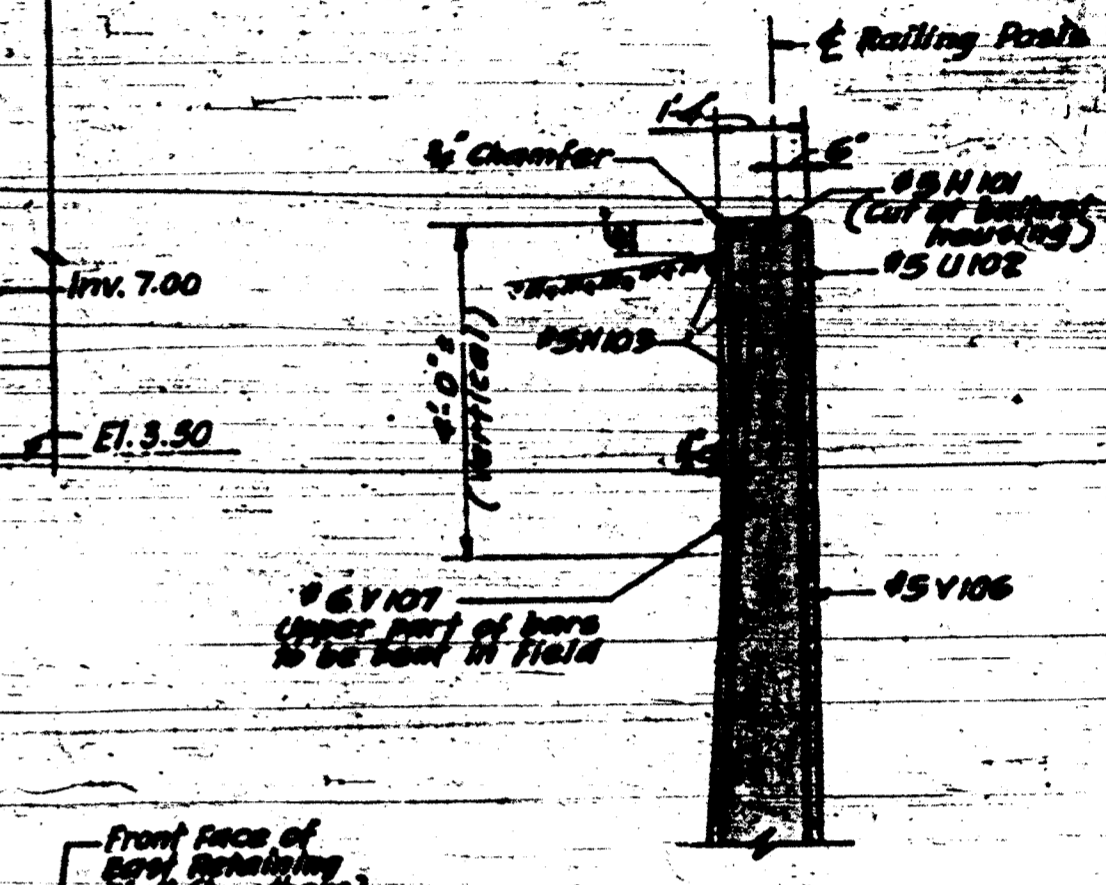
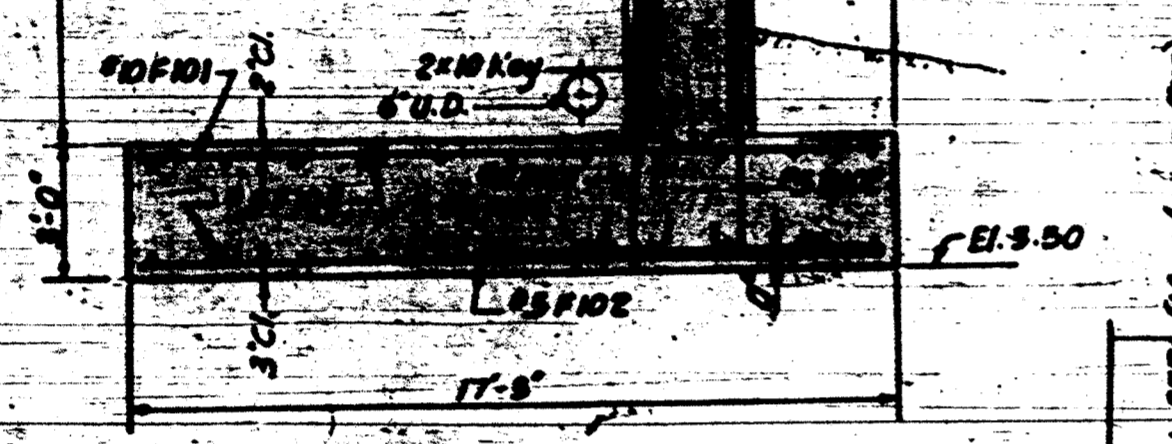
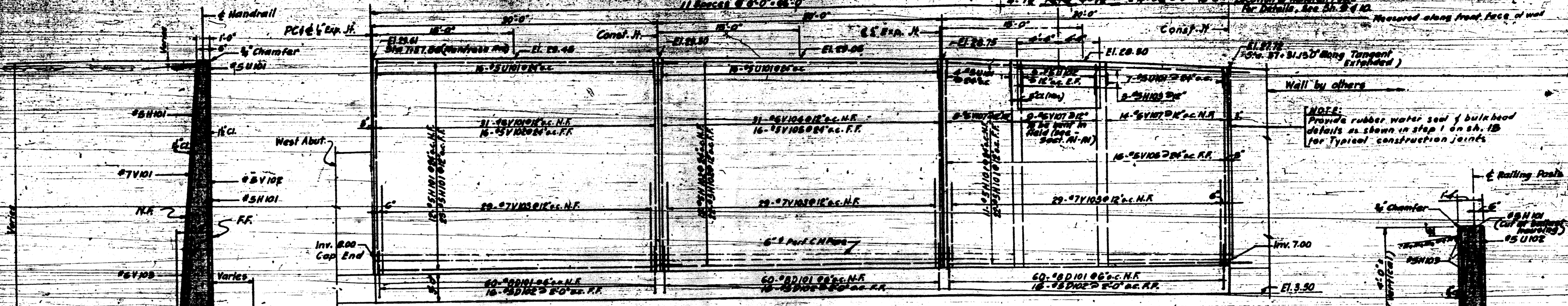
WILLIAM J. MORTIMER
SUPERINTENDENT OF HIGHWAYS

**MONTROSE AVE GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAYS INTERCHANGE**

NORTHWEST WINGWALL

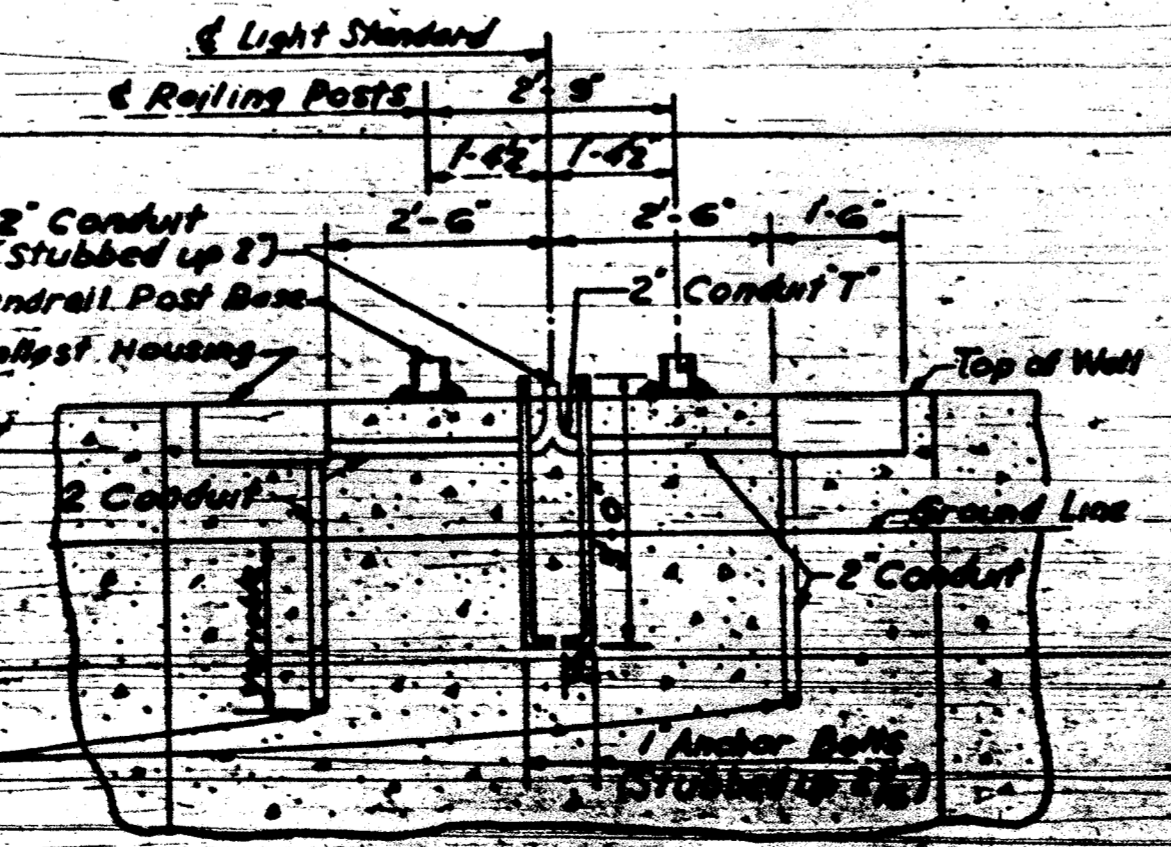
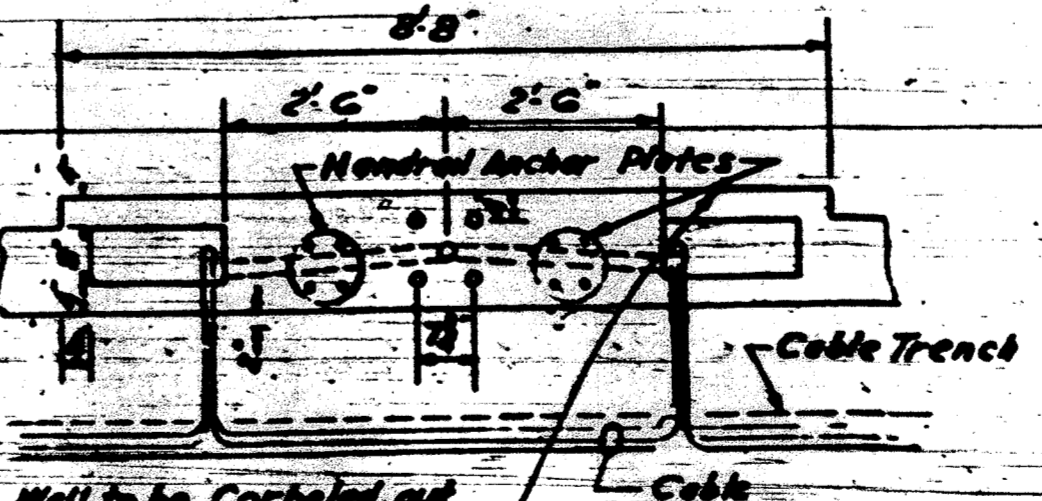
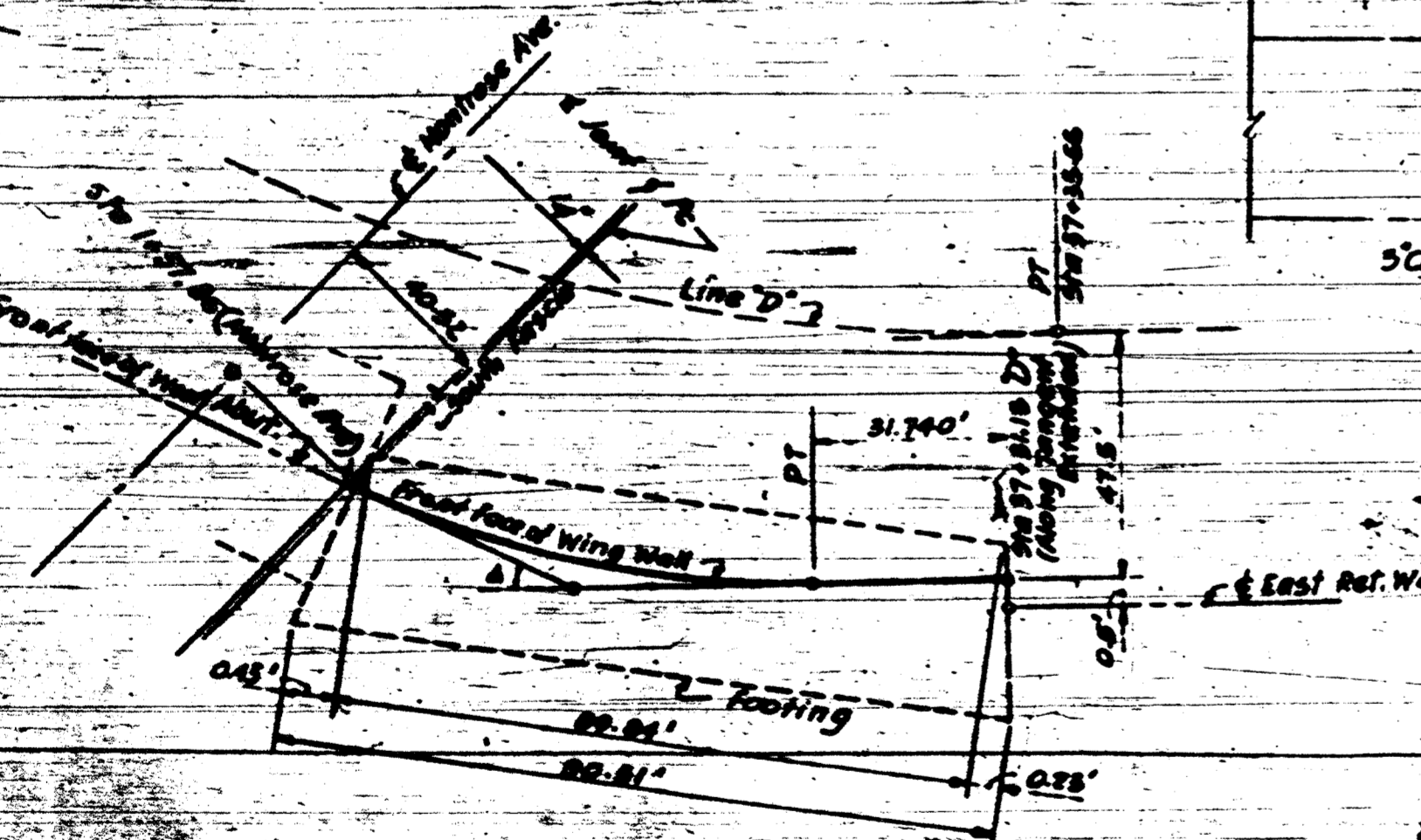
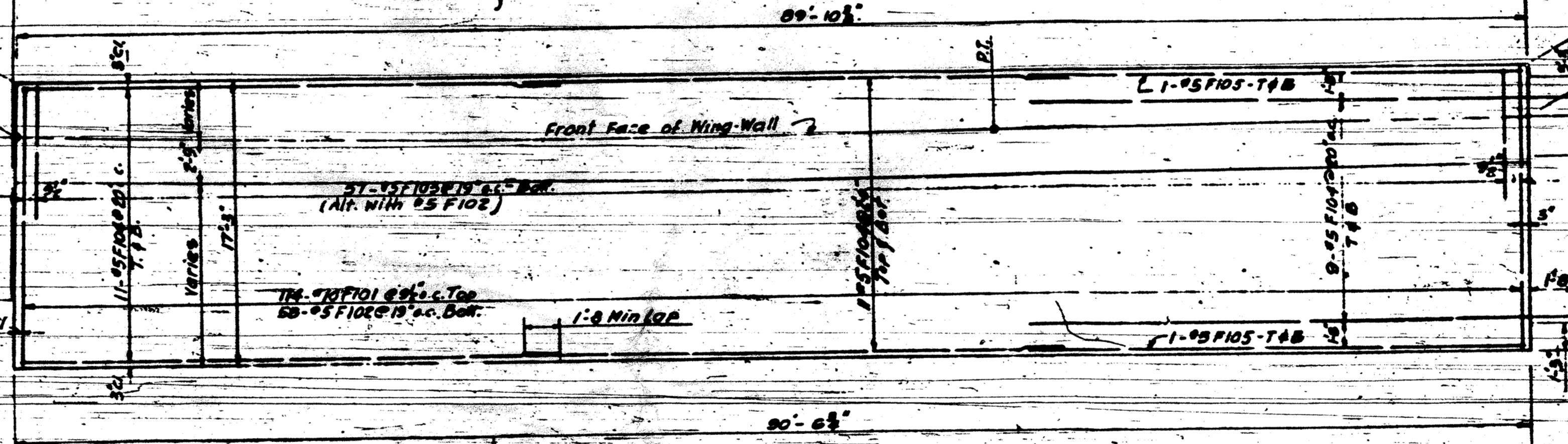
THE PRELOAD CO. INC. CONSULTING ENGINEERS
21 EAST 37th STREET, CHICAGO, ILL.

DATE	BY	REVISIONS



Curve Data
 Δ = 2° 16' 53"
 T = 29.194'
 L = 58.360'
 R = 1442.089'

See Key Plan



Conduit to be stubbed out six (6) inches from face of wall and six (6) inches above top of footing.

Cast Iron Hat Dipped Galvanized Finished Bolted Nuts to be Hoopnut Nuts, Type A, Flange and End or An Approved Equal.

- NOTES:**
1. For bar schedules see sh. 20
 2. For bill of materials see sh. 16
 3. For detail of Expansion Joint see sh. 18
 4. For detail of Construction Joint see sh. 15

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK
DANIEL STAR
PRESIDENT BOARD OF COMMISSIONERS

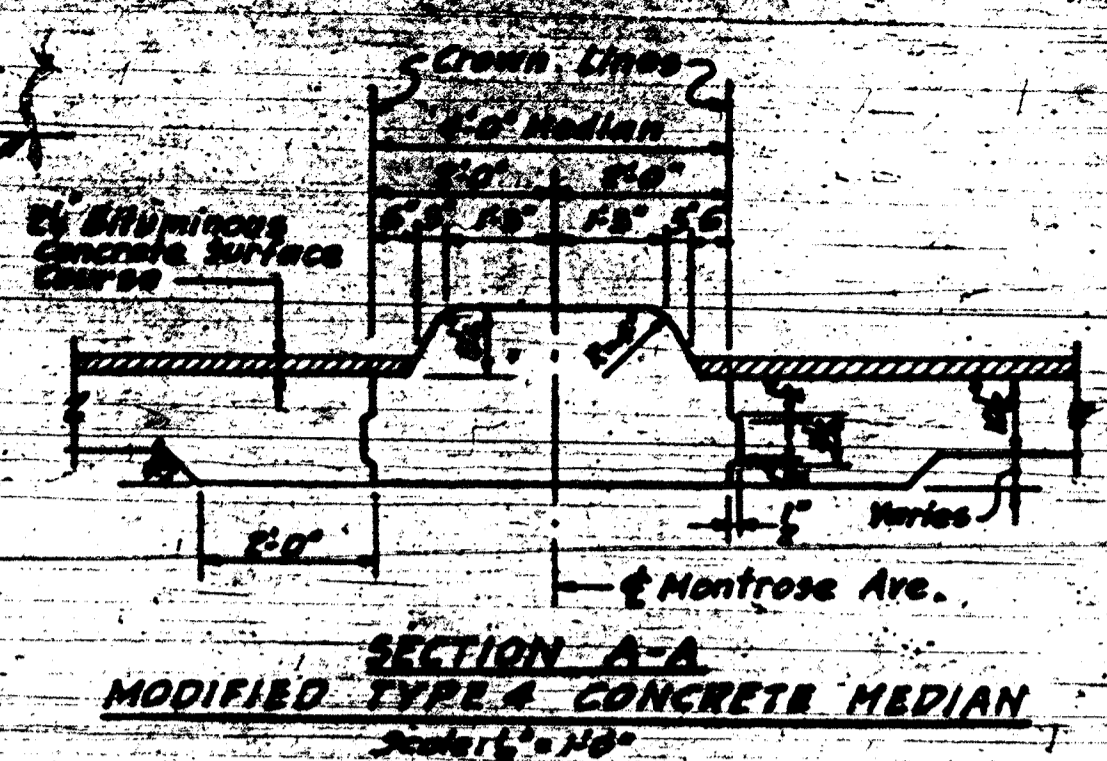
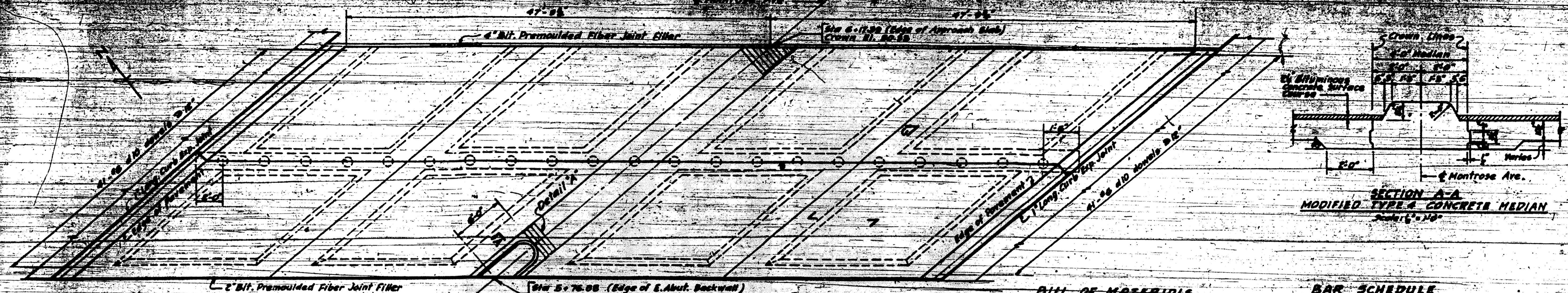
MONROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAY INTERCHANGE

SOUTHWEST WINGWALLS
THE PRELOAD CO. INC. CONSULTING ENGINEERS
214 EAST 37th STREET
CHICAGO, ILL.

FAI 94

DATE BY REVISION

SECTION
SHEET NO.
DATE



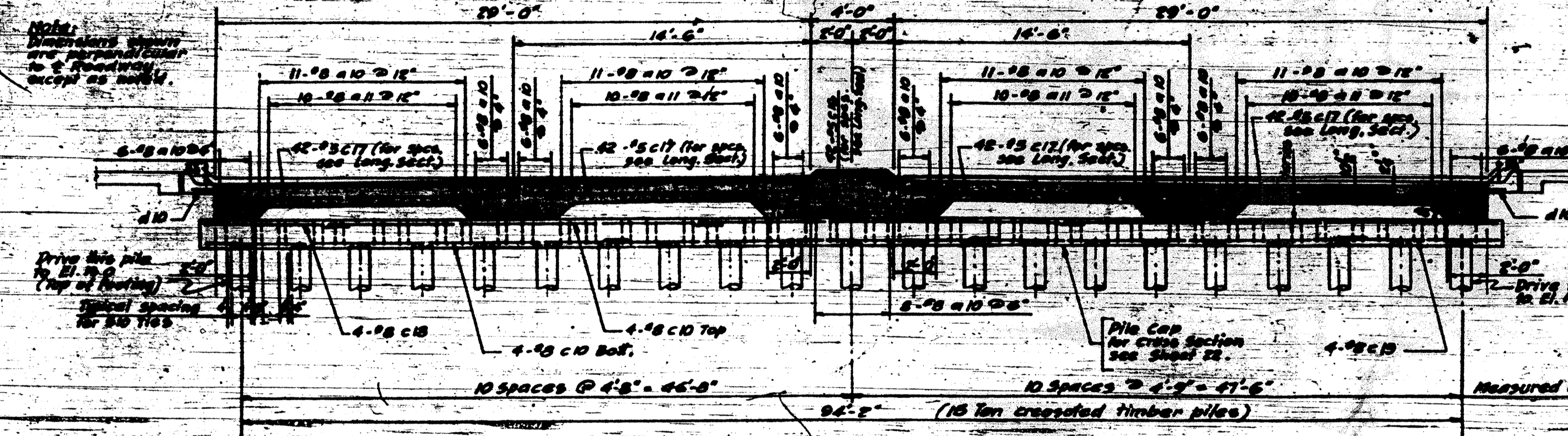
PLAN EAST APPROACH SLAB
Scale: 1/4" = 1'-0"

BILL OF MATERIALS

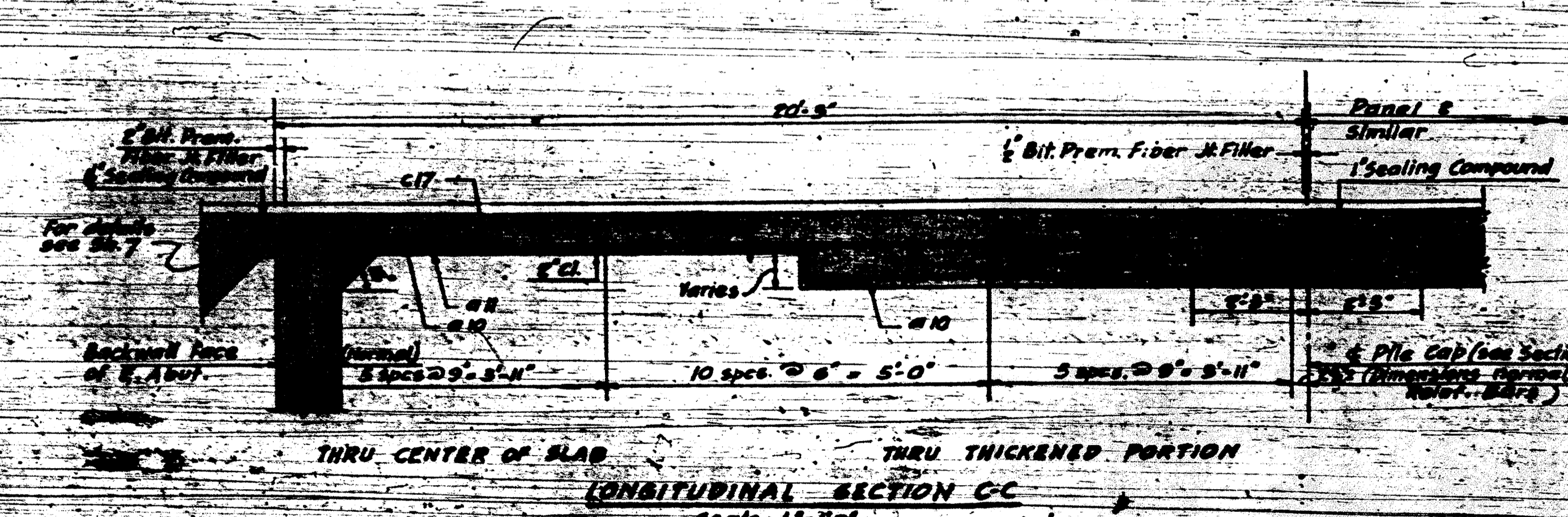
Item	Quantity	Unit	Notes
Reinforcing Bars	37,423	Lbs	
Class I Concrete	13	cu yd	
Furnishing frosted Piles up to 30'	1025	sq ft	
Driving Timber Piles	1025	sq ft	
Bituminous Materials (Prime Coat)	305	sq yd	
Bituminous Concrete Binder Course	331	sq yd	
Bituminous Concrete Surface Course, fine	404	sq yd	
Dense Graded Aggregate Type Subbase I-II	341	sq yd	
Portland Cement Concrete Pavement (16'-10" x 16")	170	sq yd	
Combination Curb & Gutter	142	sq ft	
Long. Curb Expansion Joints			

BAR SCHEDULE

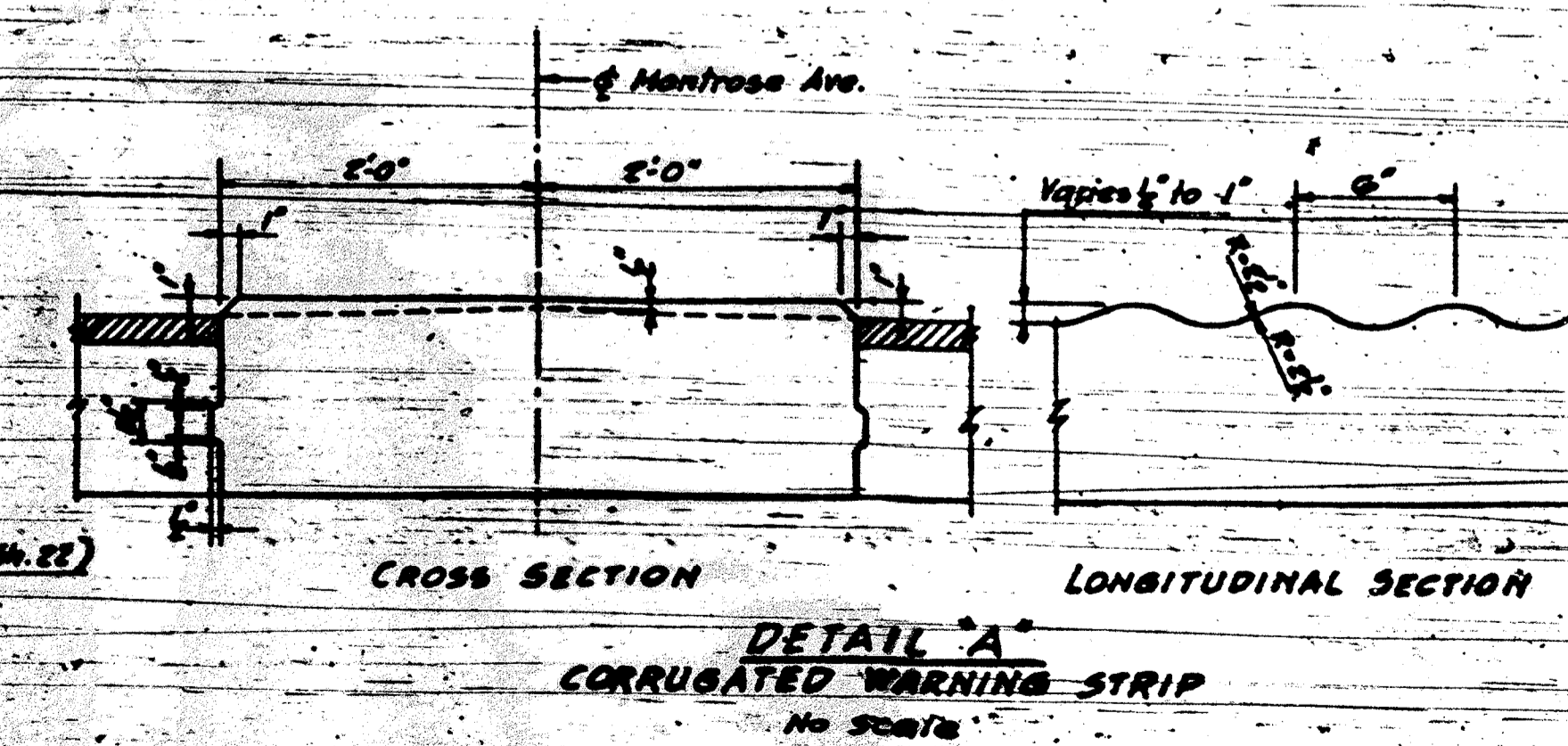
Mark	Size	Type	Length	Number	Notes
a10	5/8"	S	19'-9"	194	
a11	5/8"	S	18'-9"	97	
b10	5/8"	S	30'-0"	24	
b11	5/8"	S	7'-5"	4	
b12	5/8"	S	9'-6"	4	
c10	5/8"	S	13'-9"	136	
c11	5/8"	S	14'-0"	42	
c12	5/8"	S	14'-0"	42	
c13	5/8"	S	3'-9"	42	
c14	5/8"	S	11'-6"	4	
c15	5/8"	S	15'-9"	4	
d10	5/8"	S	3'-0"	81	
s10	4"	I	4'-4"	70	



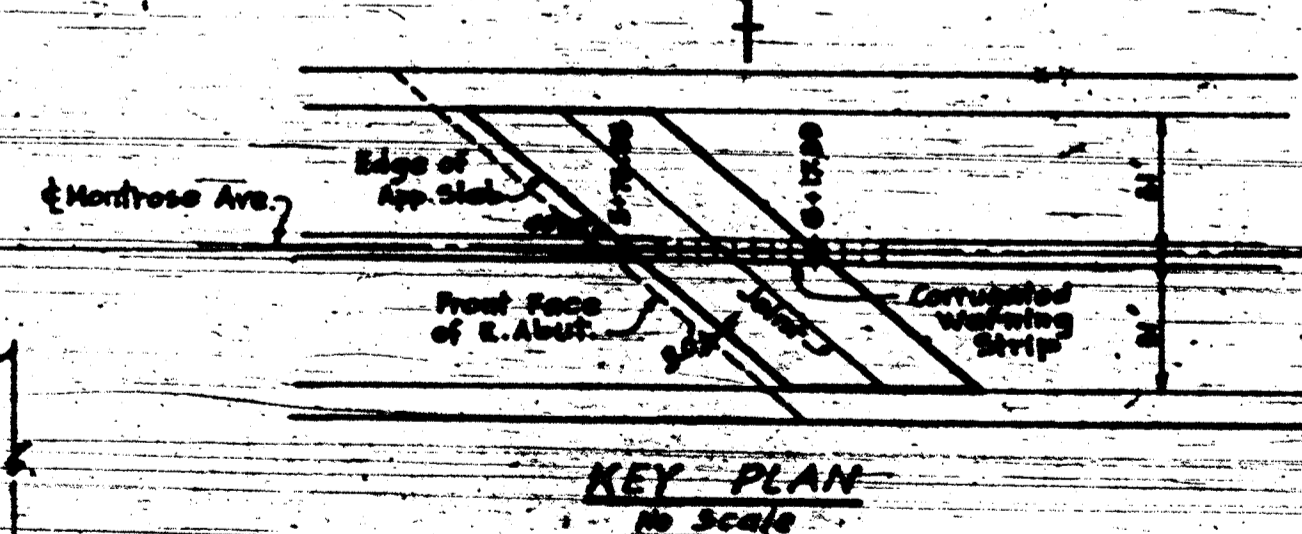
SECTIONAL VIEW OF SLAB & PILE CAP
Scale: 1/4" = 1'-0"



LONGITUDINAL SECTION CC
Scale: 1/4" = 1'-0"



DETAIL A CORRUGATED WARNING STRIP
No Scale



KEY PLAN
No Scale

NOTE: For Notes see Sh. 22.

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK

DANIEL BYAN
PRESIDENT BOARD OF COMMISSIONERS

WILLIAM J. WORTHEN
SUPERINTENDENT OF HIGHWAYS

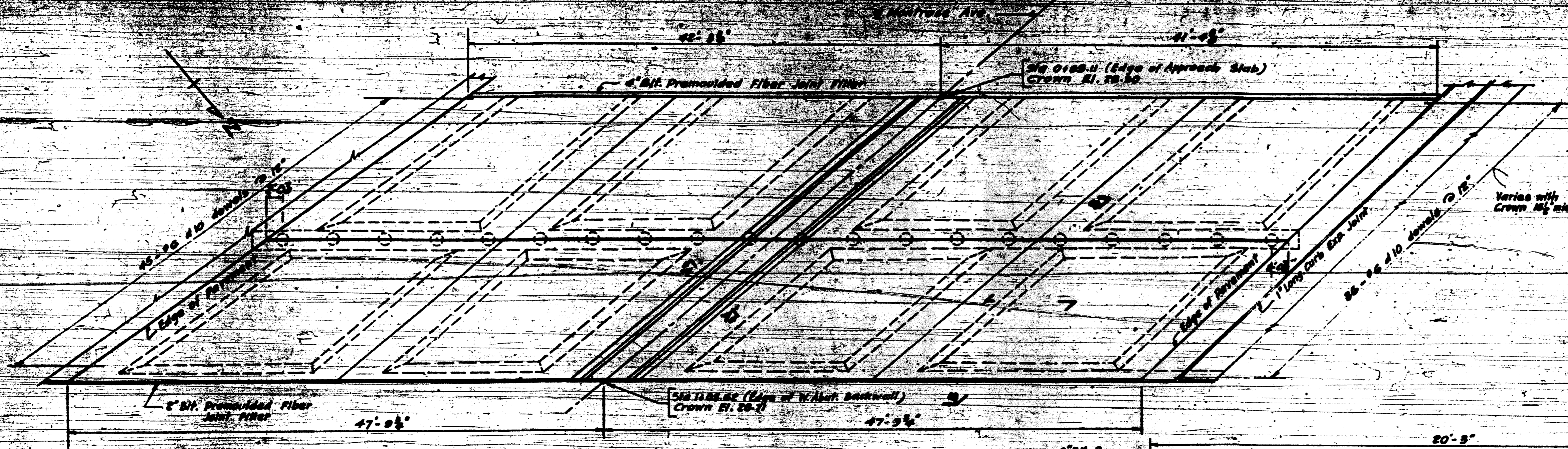
**MONTROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESS WAY INTERCHANGE**

EAST APPROACH SLAB

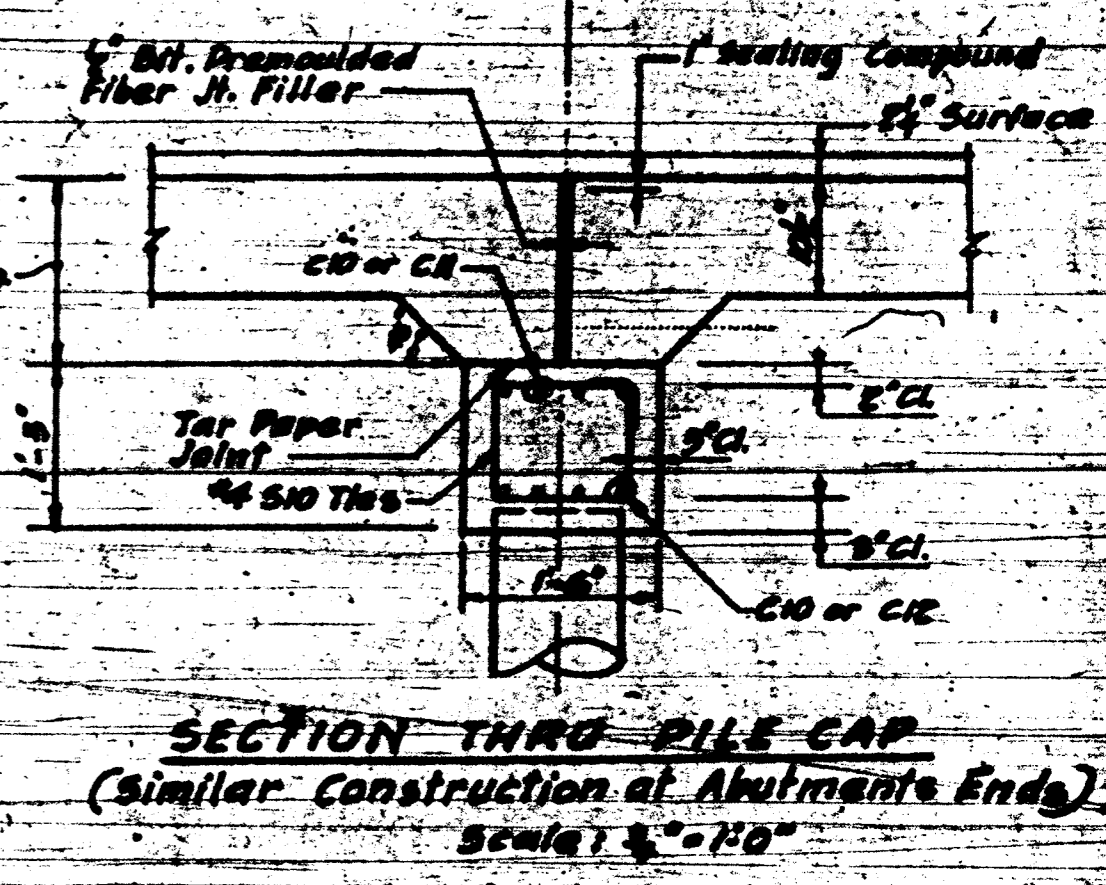
THE PRELOAD CO. INC. CONSULTING ENGINEERS
280 EAST 42ND STREET NEW YORK, N.Y.

DATE: 6-21-57

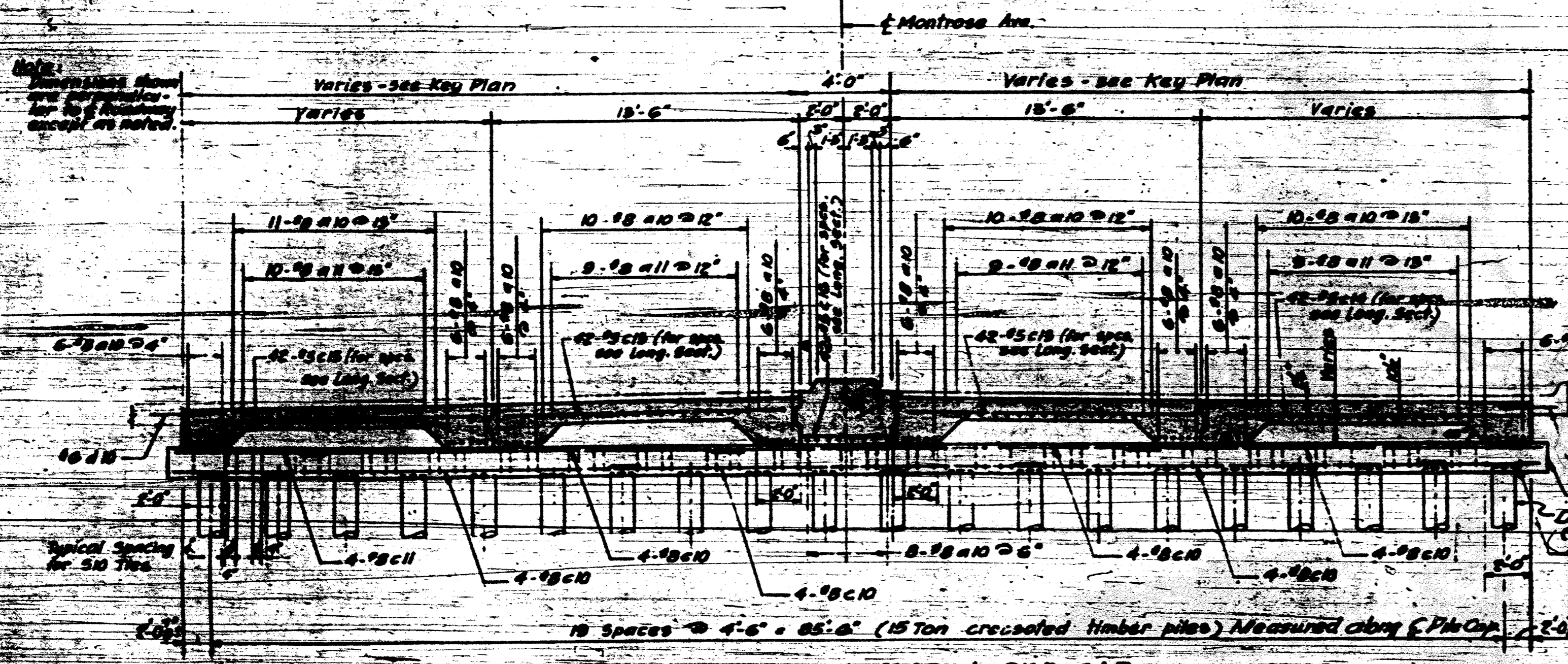
F.A.I. 94



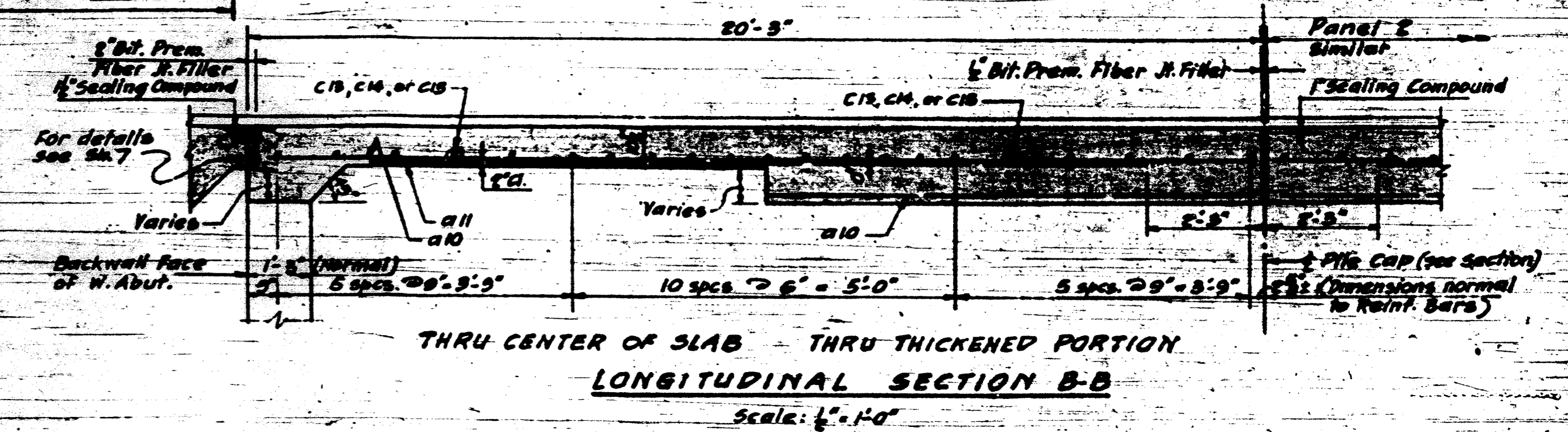
PLAN WEST APPROACH SLAB
Scale: 1/8" = 1'-0"



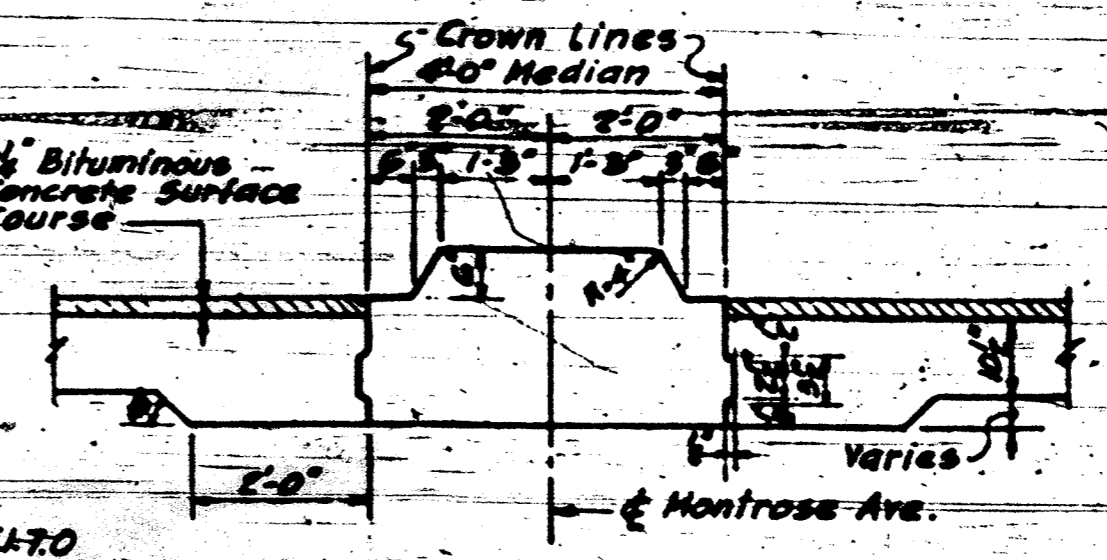
SECTION THRU PILE CAP
(Similar construction at Abutment Ends)
Scale: 1/4" = 1'-0"



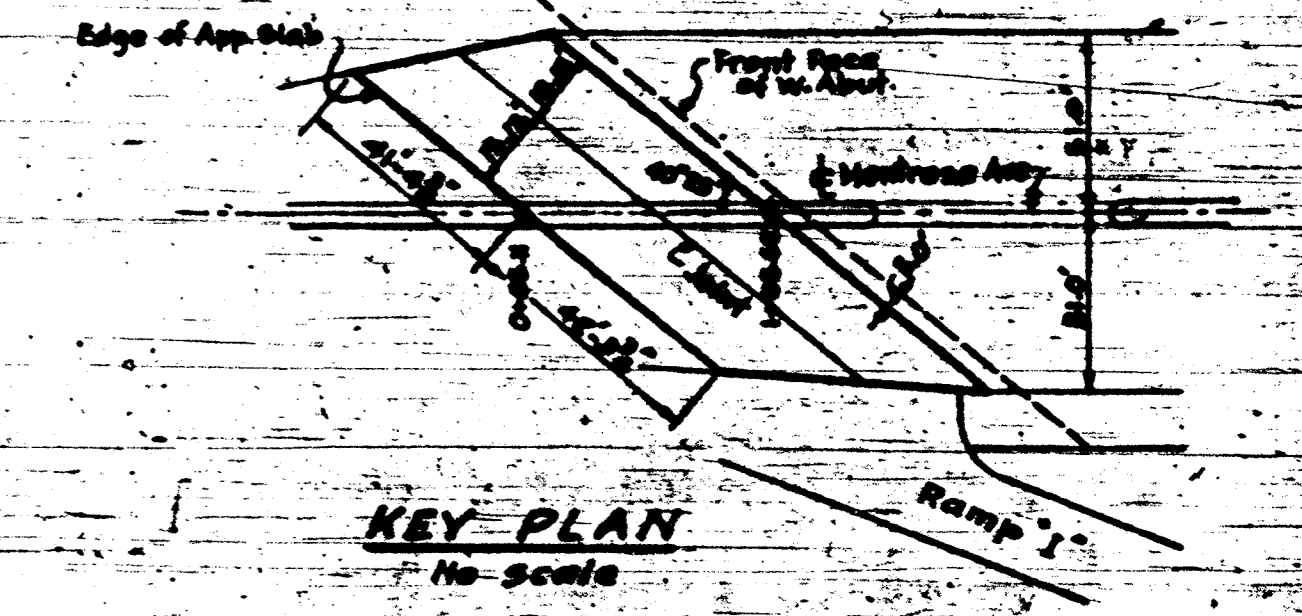
SECTIONAL VIEW OF SLAB & PILE CAP
Scale: 1/4" = 1'-0"



THRU CENTER OF SLAB - THRU THICKENED PORTION
LONGITUDINAL SECTION B-B
Scale: 1/4" = 1'-0"



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



KEY PLAN
No Scale

NOTES

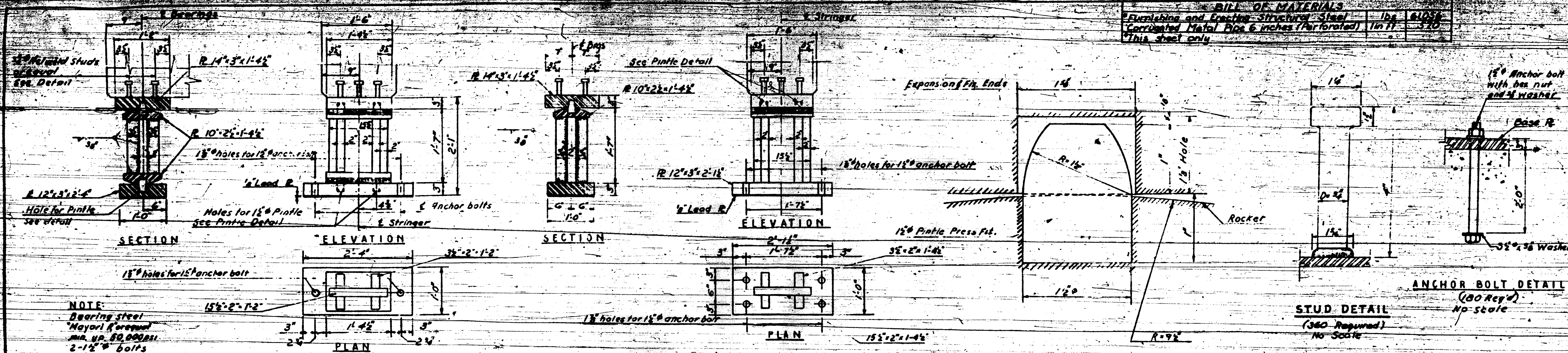
The slab shall be paid for at the contract unit price for P.C. Concrete Pavement (15'-10 1/2" - 15 1/2")
The concrete cap shall be paid for at the contract unit price for Class "X" Concrete
The bit. prem. fiber jt. filler shall be included in the unit price for P.C. Concrete Pavement
The bit. prem. fiber jt. filler & tar paper joint over pile cap shall be included in the contract unit price for

Concrete Pavement (15'-10 1/2" - 15 1/2")
All piles shall be driven to obtain a minimum penetration of 10'-0" into stratum of solid material regardless of bearing capacity developed
For bar schedule, see sheet 21
All elevations shown are to top of 1-11
For Bill of Materials see sheet 21.

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK
DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS
FRANK J. MORTIMER
SUPERVISOR DEPT. OF HIGHWAYS
**MONROSE AVE. GRADE SEPARATION
OVER
EDENS & NORTHWEST EXPRESSWAYS INTERCHANGE**
WEST APPROACH SLAB
THE PRELOAD CO. INC.
211 EAST 37 STREET
CONSULTING ENGINEERS
NEW YORK 20, N.Y.
SECTION 202-1000
DRAWING NO.
DATE 1-21-50
FAI 94

DATE	BY	REVISIONS

BILL OF MATERIALS		
Furnishing and Erecting Structural Steel	lbs	61056
Corrugated Metal Pipe 6 inches (Perforated)	1 in 11	330
This sheet only		

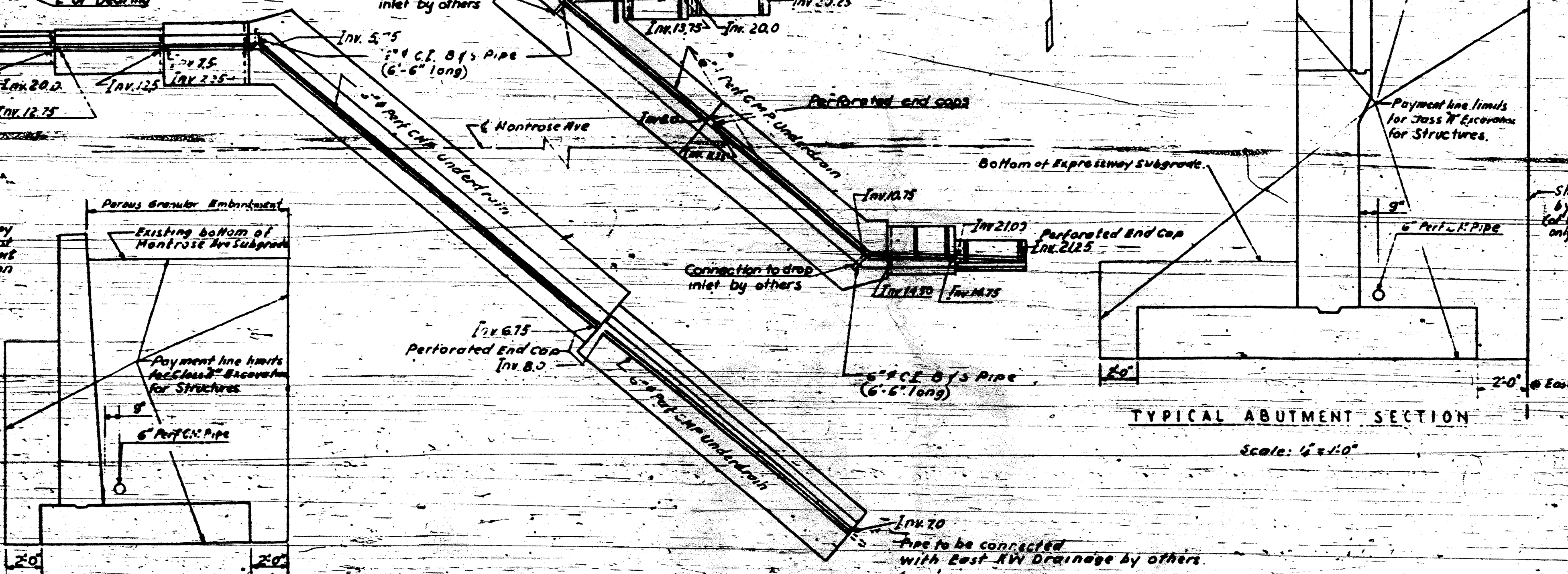
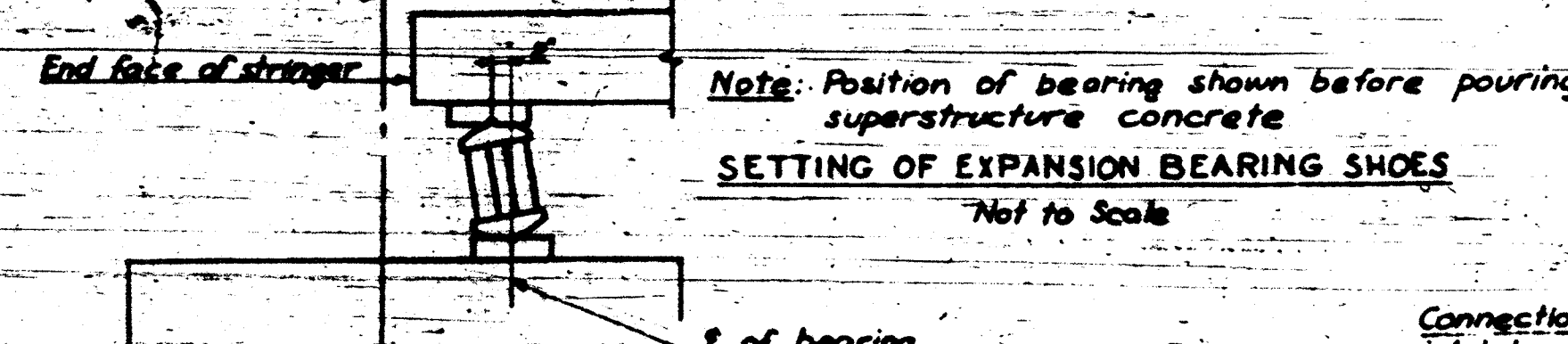


EXPANSION BEARING 15' SPAN (30 REQ'D)
Scale: 1"=1'-0"

FIXED BEARING 15' SPAN (30 REQ'D)
Scale: 1"=1'-0"

PINDLE DETAIL (100 Required)
Full scale

ANCHOR BOLT DETAIL (100 Req'd)
No scale



TYPICAL WINGWALL SECTION
Scale: 4"=1'-0"

TYPICAL ABUTMENT SECTION
Scale: 4"=1'-0"

TYPICAL PIER SECTION
Scale: 4"=1'-0"

NOTE:
Vertical risers shall be 6" Corrugated Metal Pipe
All costs of furnishing, installing and caps, 6" Corrugated Metal Pipe sleeves, 6" Cast Iron 8' S. Standard Pipe fittings and fastenings shall be paid for at the contract unit price for pipe underdrains (6" Perforated Corrugated Metal Pipe)
For list of materials of substructure see sheet 10.

DESIGN: E.A.
DRAWN: W.J.
CHECKED: R.A.
APPROVED: M.A.

FAI 94	
DATE	BY

DEPARTMENT OF HIGHWAYS
OF THE
COUNTY OF COOK

DANIEL RYAN
PRESIDENT BOARD OF COMMISSIONERS

WILLIAM LEONHART
SUPERINTENDENT OF HIGHWAYS

MONTRÖSE AVE. GRADE SEPARATION
OVER
EAST & NORTHWEST EXPRESSWAY INTERCHANGE

MISCELLANEOUS DETAILS

THE PRELOAD CO. INC.
2 EAST 31ST STREET

CONSULTING ENGINEERS
NEW YORK 17, N.Y.

SECTION
DRAWING NO.
25
DATE
8-21-57