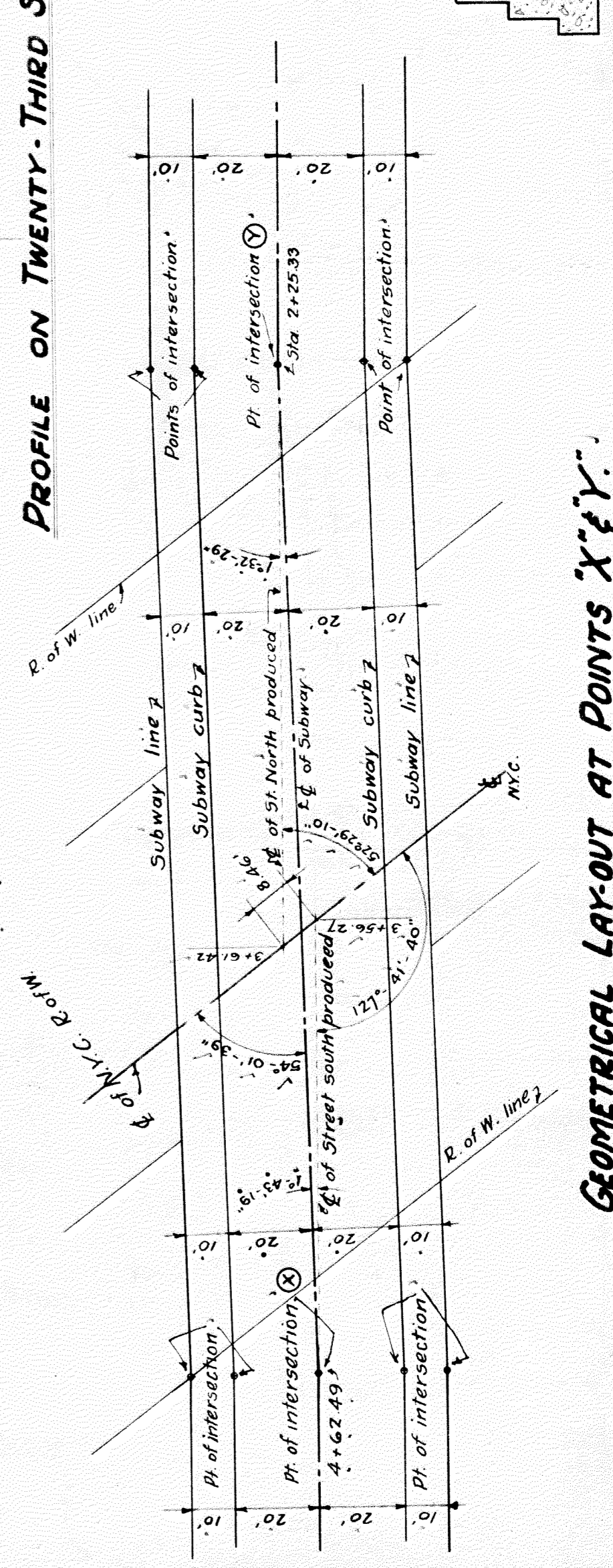
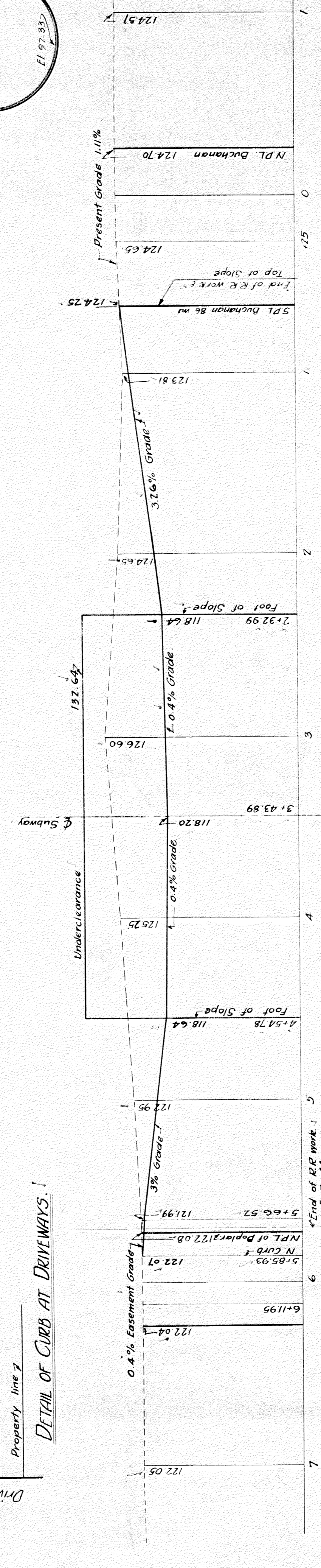


GEOMETRICAL LAY-OUT AT POINTS 'X' & 'Y'

Not to scale.

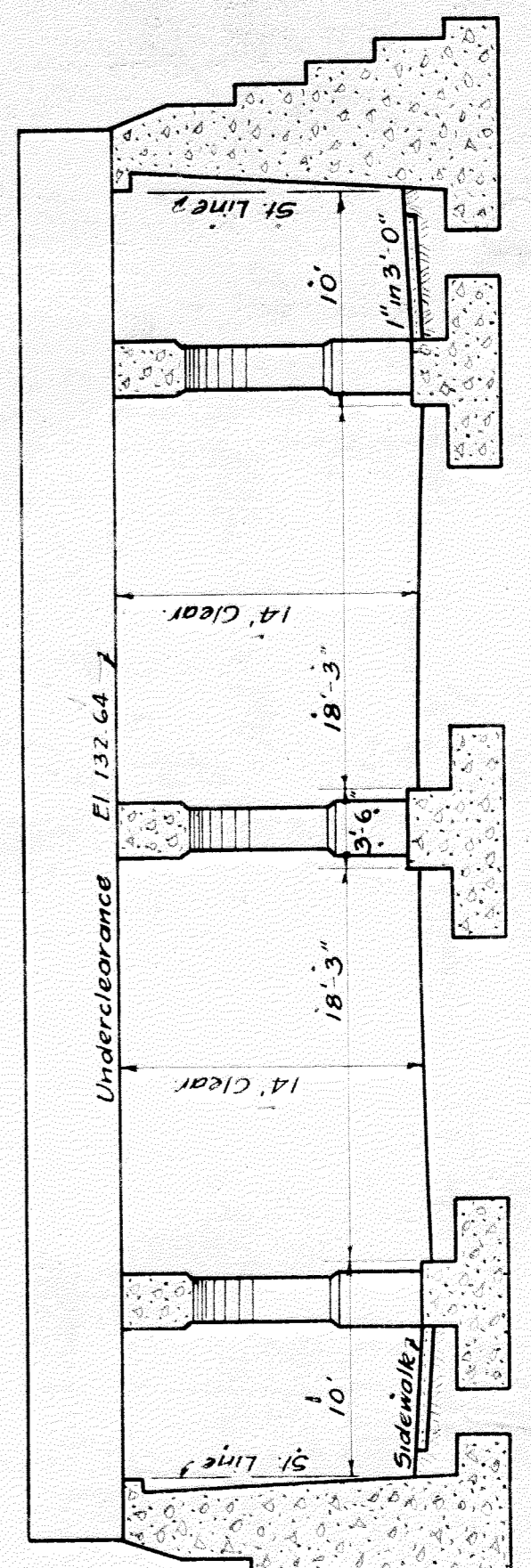


PROFILE ON TWENTY-THIRD ST.



SECTIONAL ELEVATION OF SUBWAY.

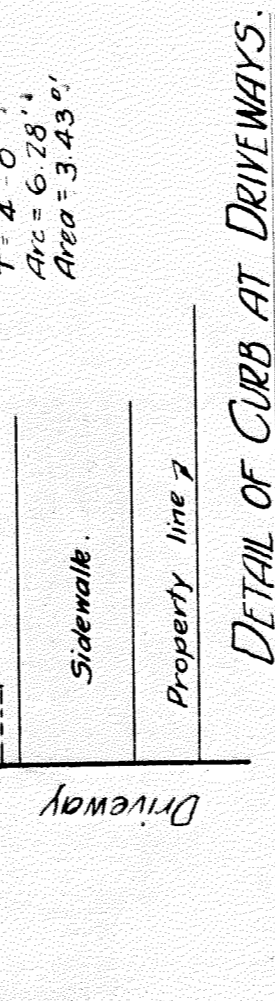
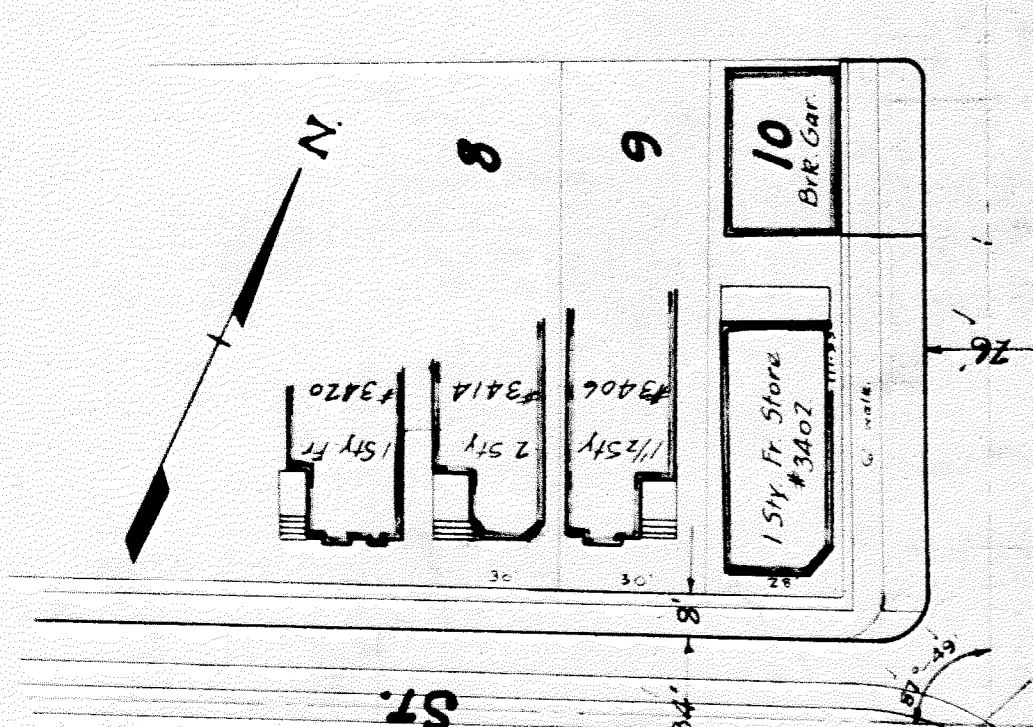
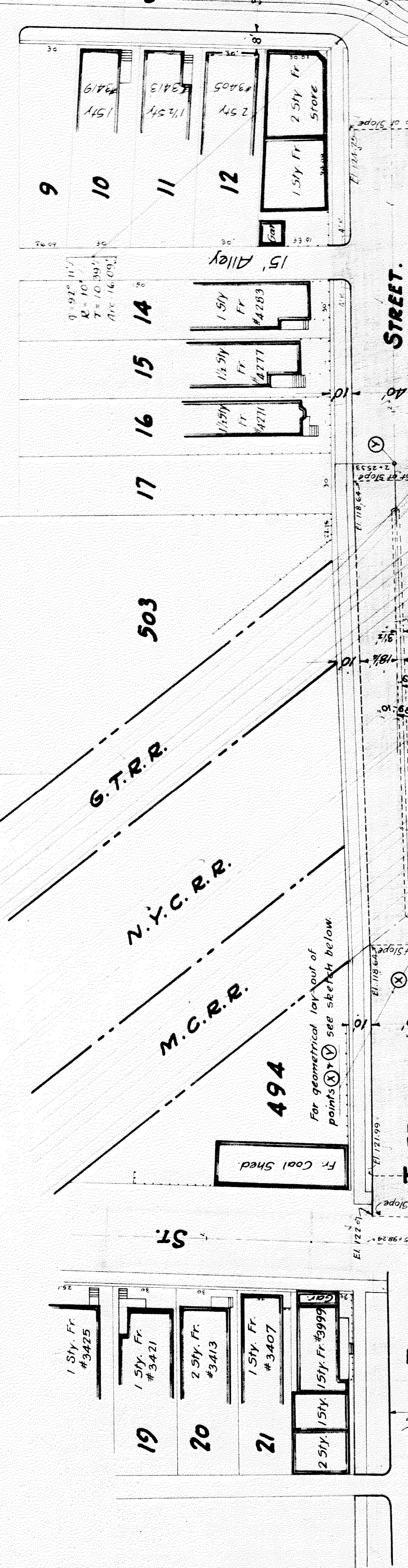
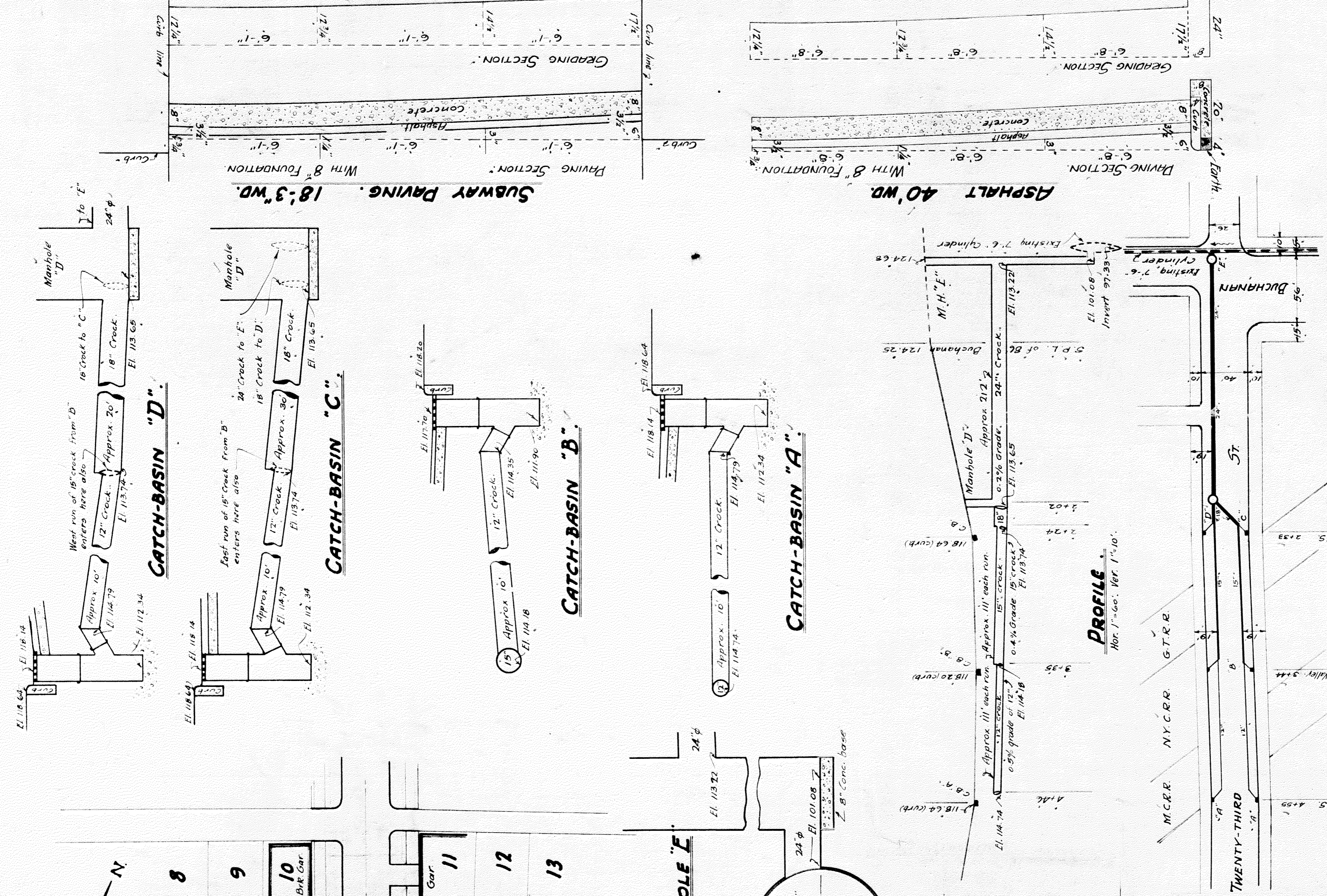
Scale 1/8"=1'-0".



OFFICE OF CITY ENGINEER
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF GRADE SEPARATION & BRIDGES
TWENTY-THIRD ST.
 Scales as indicated
 De. By: M.L.G.
 C.M.D. BY: J.L.G.
 7-13-25

TWENTY-THIRD ST. DRAINAGE PLAN.

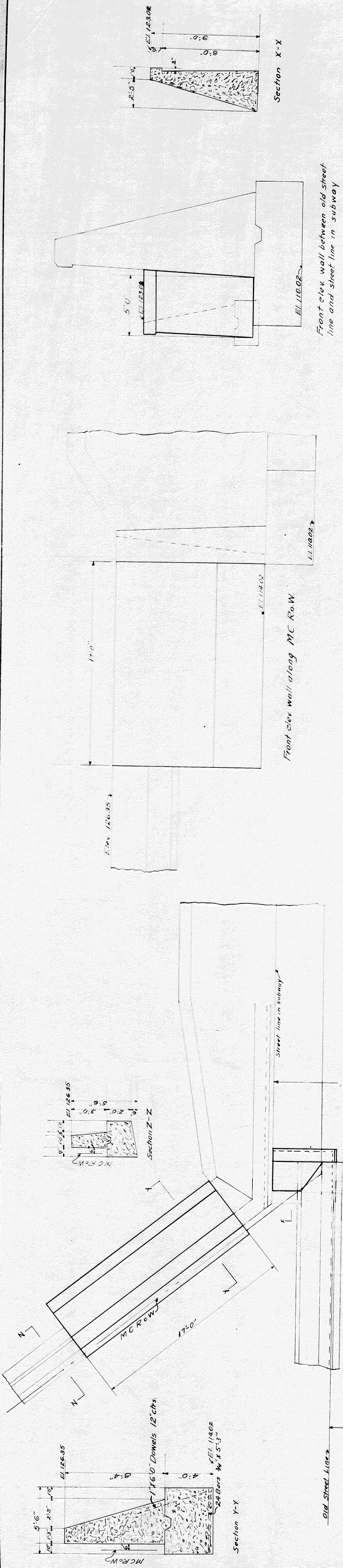
Scale: 1"=60'.



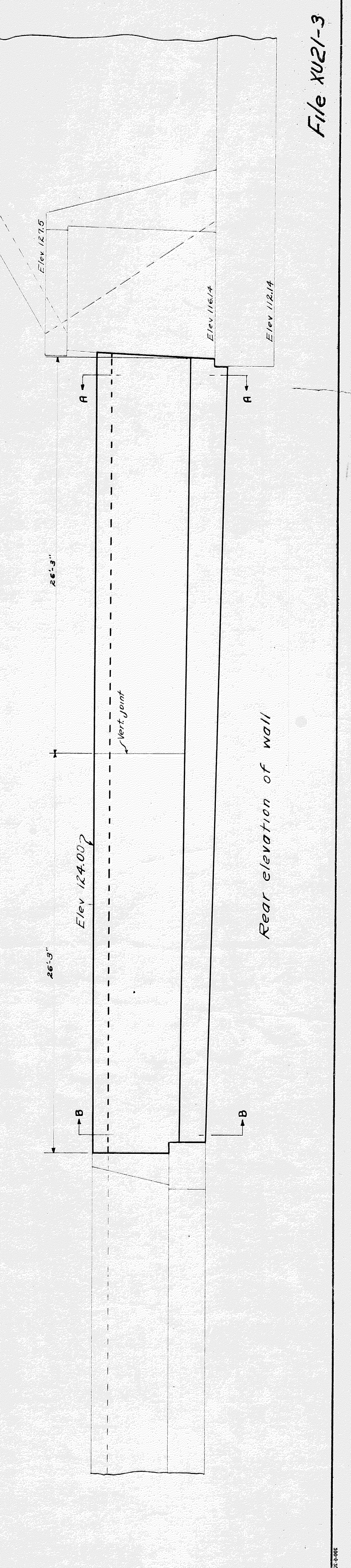
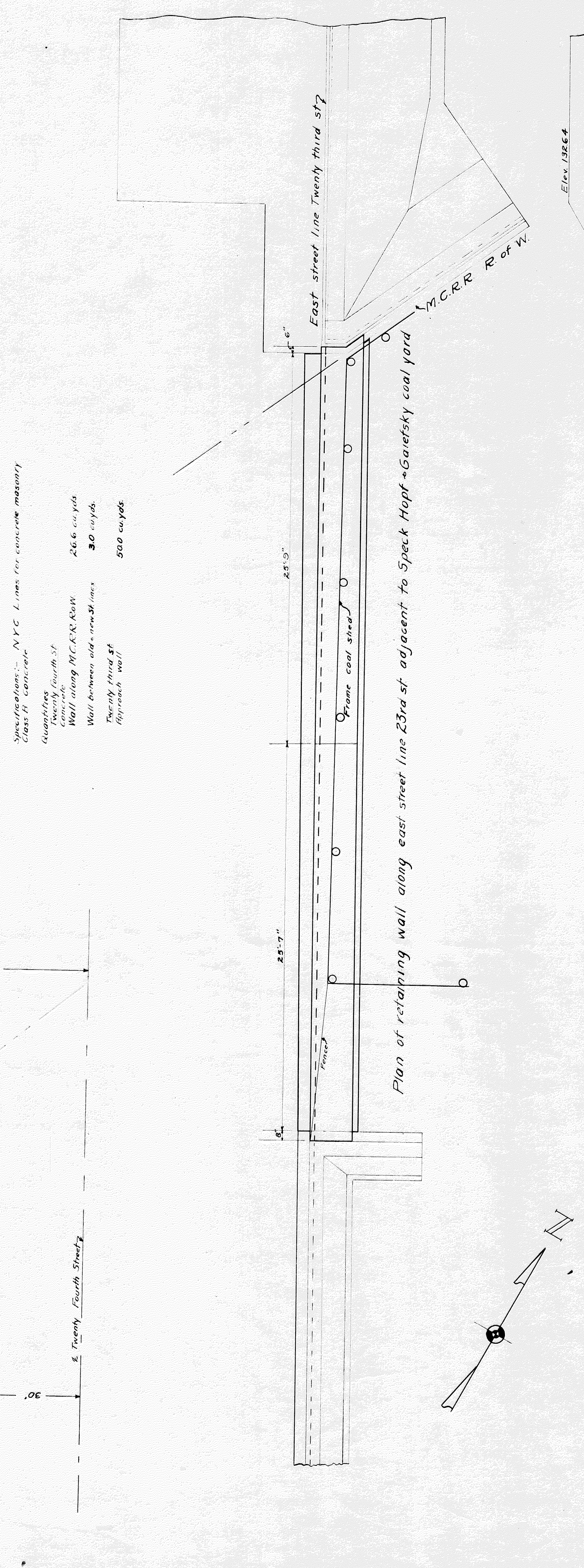
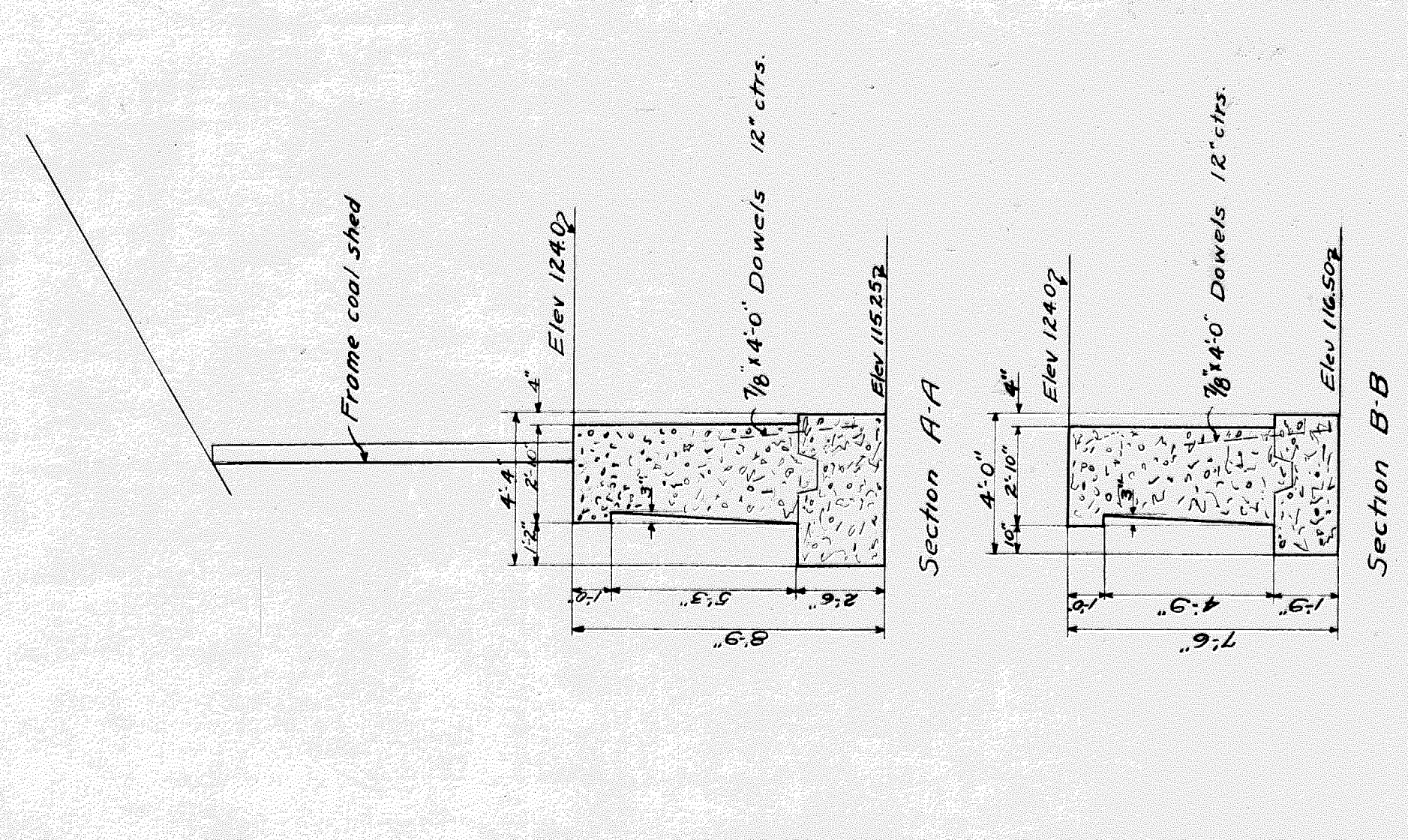
DETAIL OF CURB AT DRIVENWAYS.

DO NOT TAKE OFFICE COPY

File XU21-3



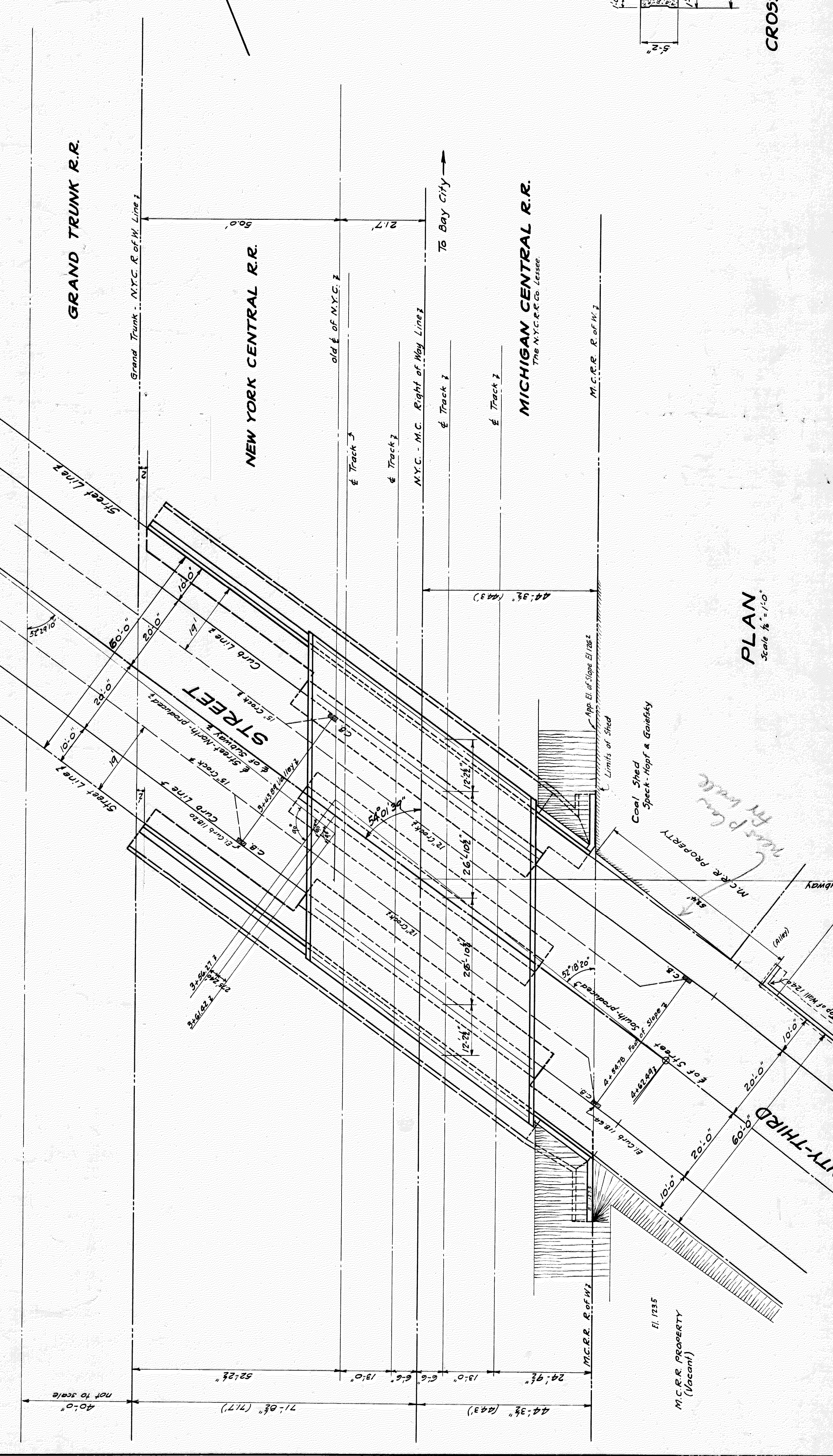
Specifications: - NYC Lines for concrete masonry
 Class A concrete
 Quantities (fourth st)
 Wall along M.C.R.R. Row 26.6 cu yds
 Wall between old new st lines 3.0 cu yds
 Twenty third st approach wall 50.0 cu yds



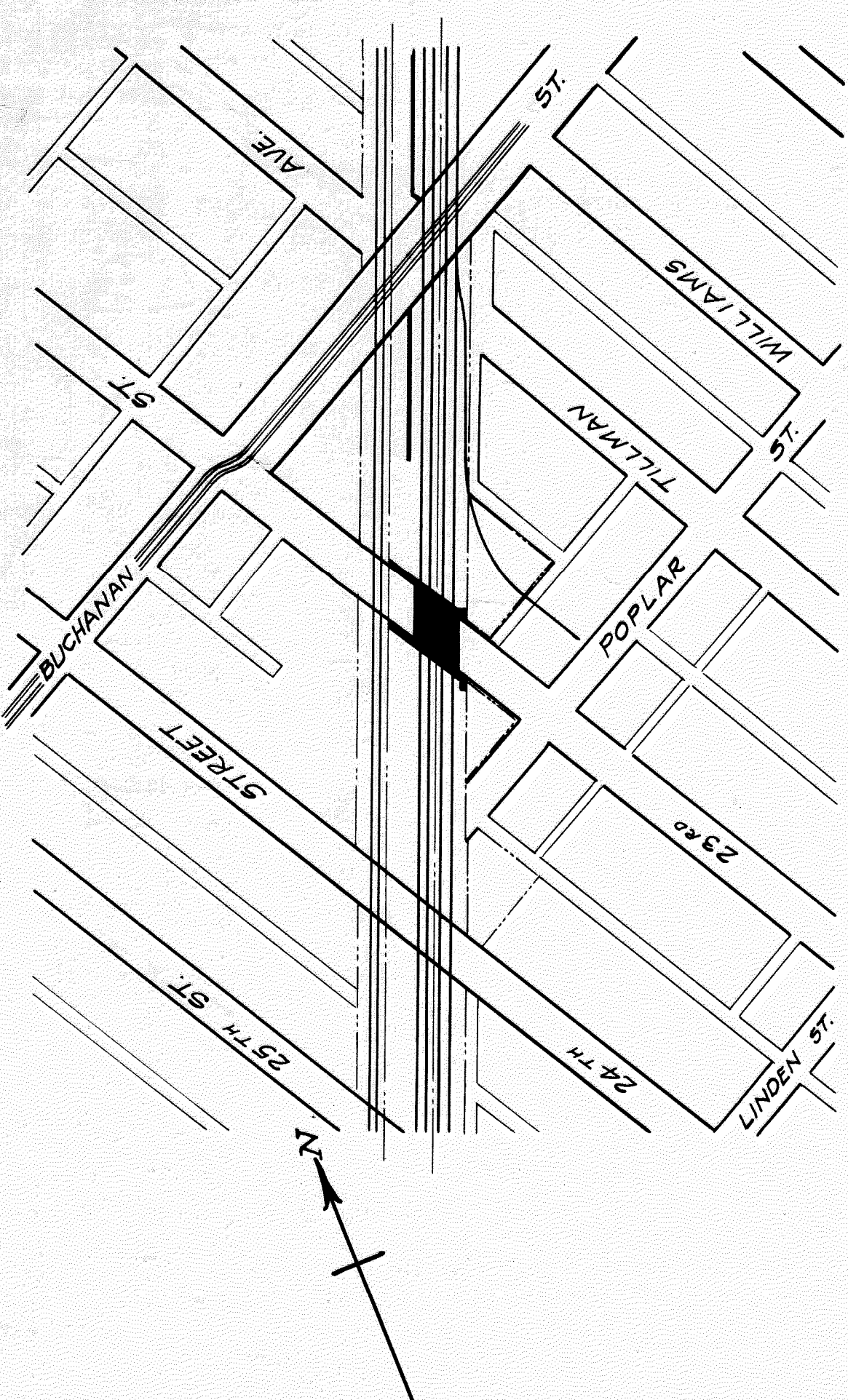
GRAND TRUNK R.R.

NEW YORK CENTRAL R.R.

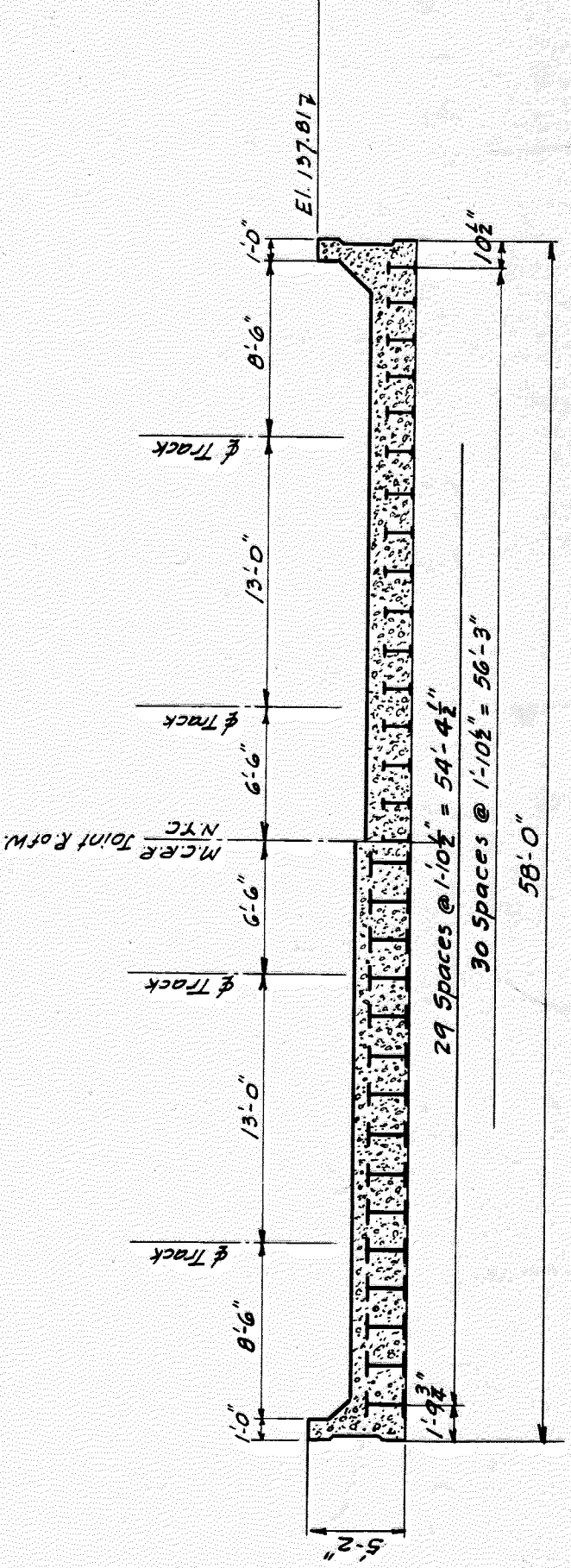
MICHIGAN CENTRAL R.R.
The N.Y.C.R.R. Co. Lessee



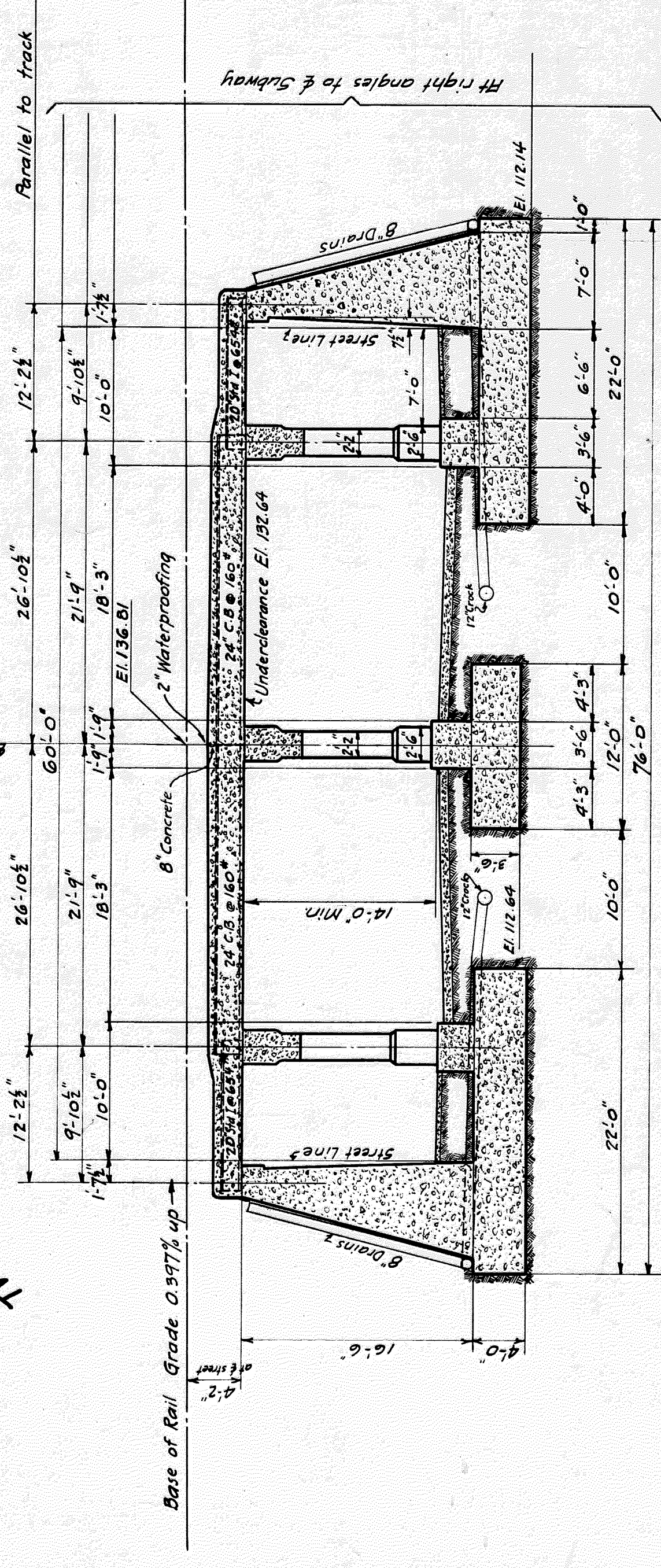
PLAN
Scale 1/8" = 1'-0"



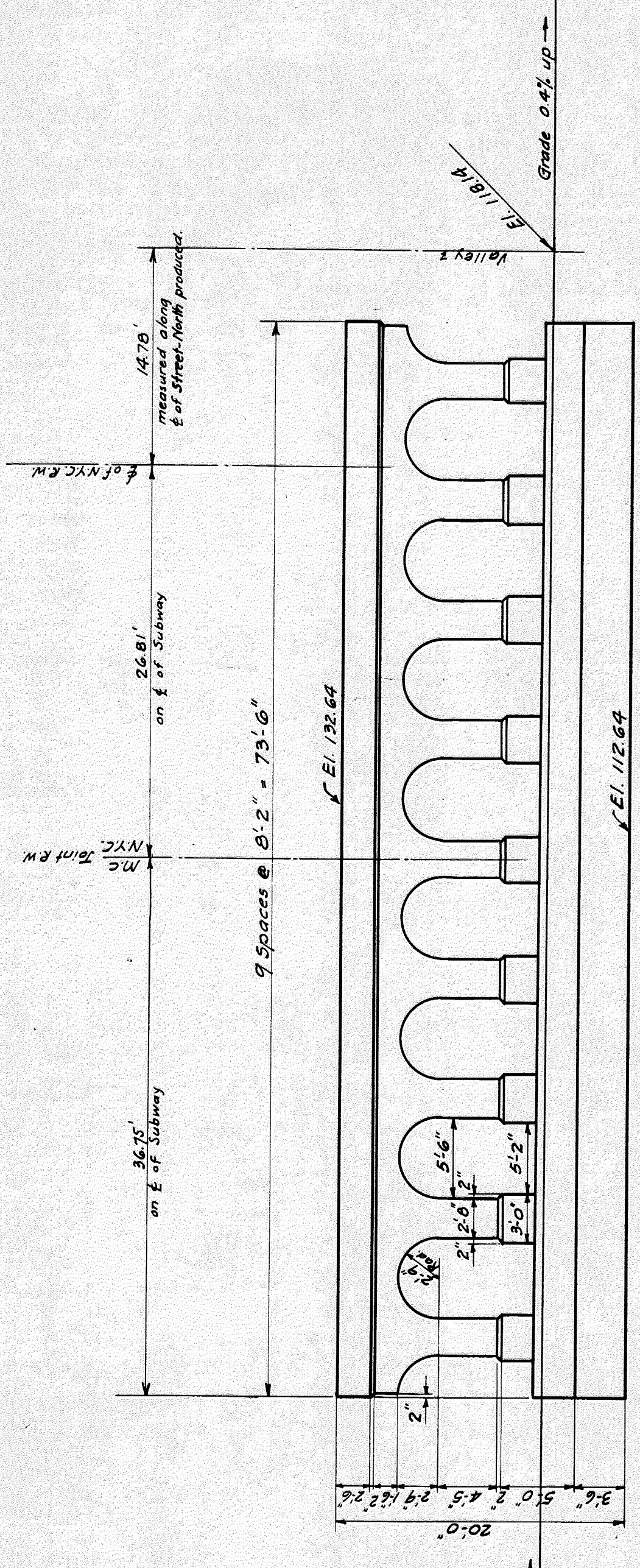
LOCATION PLAN
Scale 1/200"



CROSS SECTION OF FLOOR AT RIGHT ANGLES TO TRACK
Scale 1/4" = 1'-0"



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



ELEVATION OF CENTER PIER
Scale 1/4" = 1'-0"

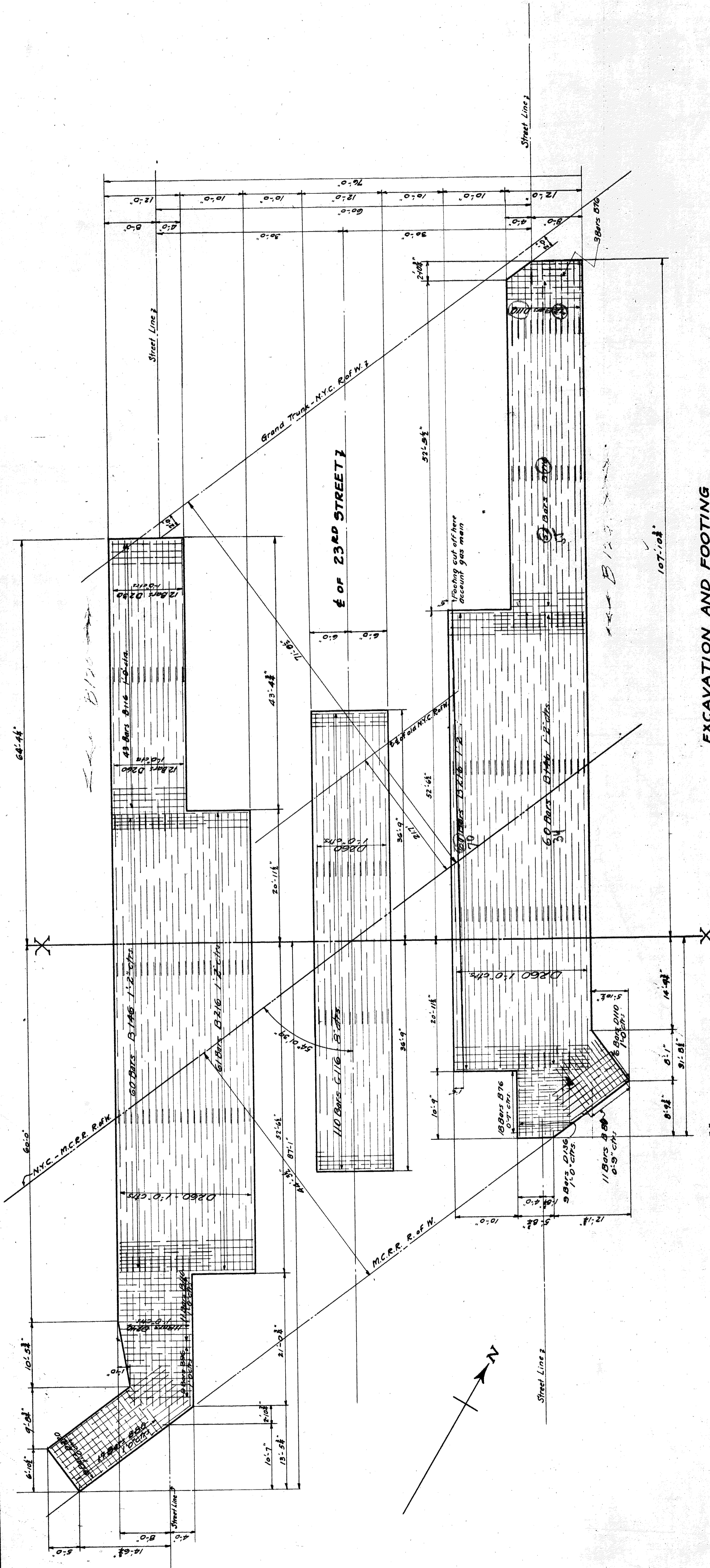
M.C.R.R. - BAY CITY DIV.
BRIDGE 3.30 23RD ST. SUBWAY
GENERAL PLAN

REVISIONS:
NO. 1. 2-11-11
NO. 2. 2-11-11
NO. 3. 2-11-11

ISSUE NO. 3
DATE 2-11-11

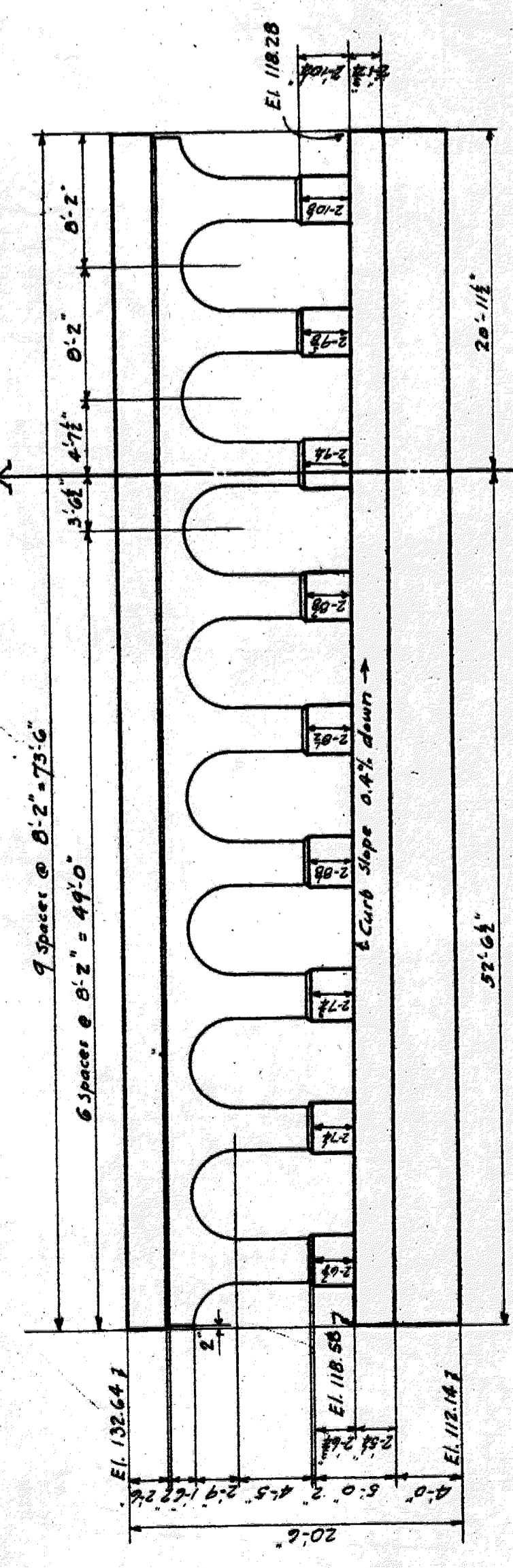
SCALE: AS INDICATED = 1 FOOT
DRAWN BY E.A.E. 2-7-11
CHECKED BY J.E.E. 2-7-11
TRACED BY E.A.E. 2-9-11

BRIDGE ENGINEER
SHEET 61 OF 1

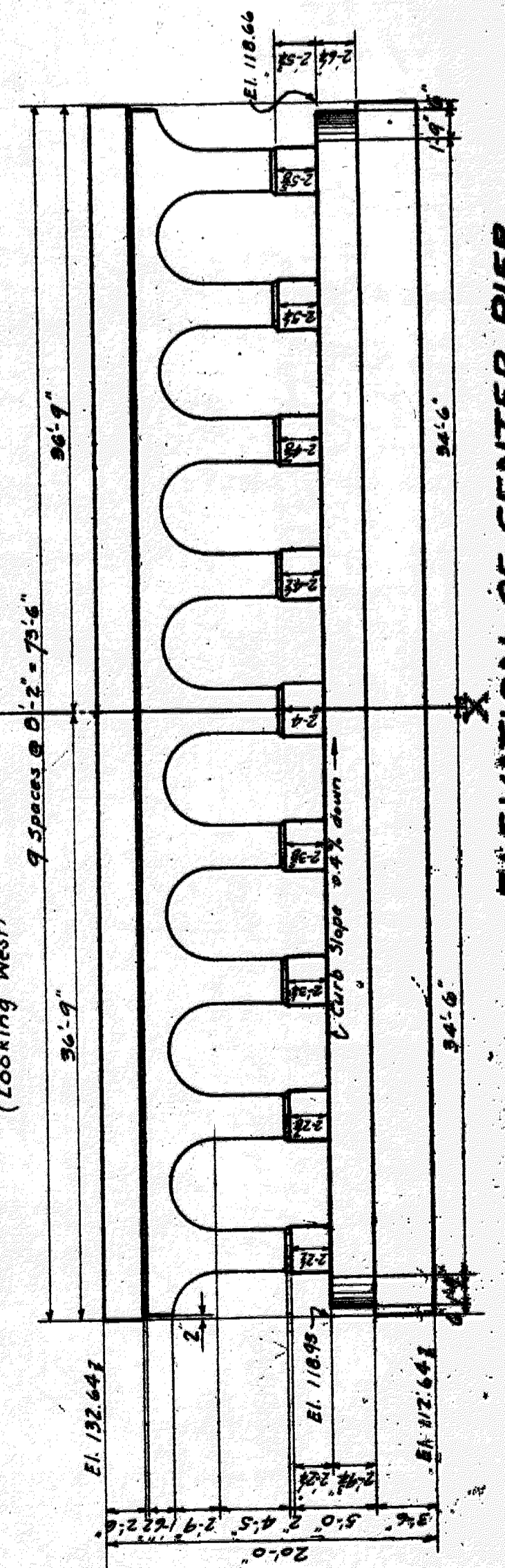


EXCAVATION AND FOOTING REINFORCING PLAN

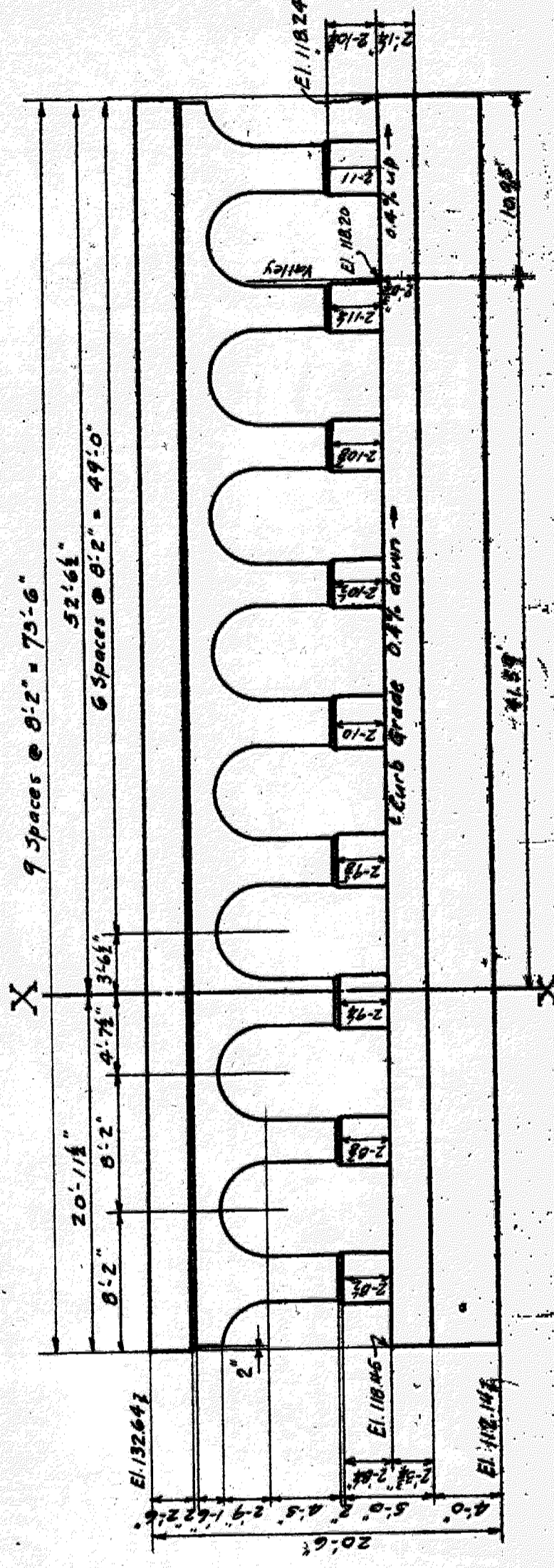
Note: For Specifications See Sheet M3



ELEVATION OF WEST CURB PIER (Looking West)



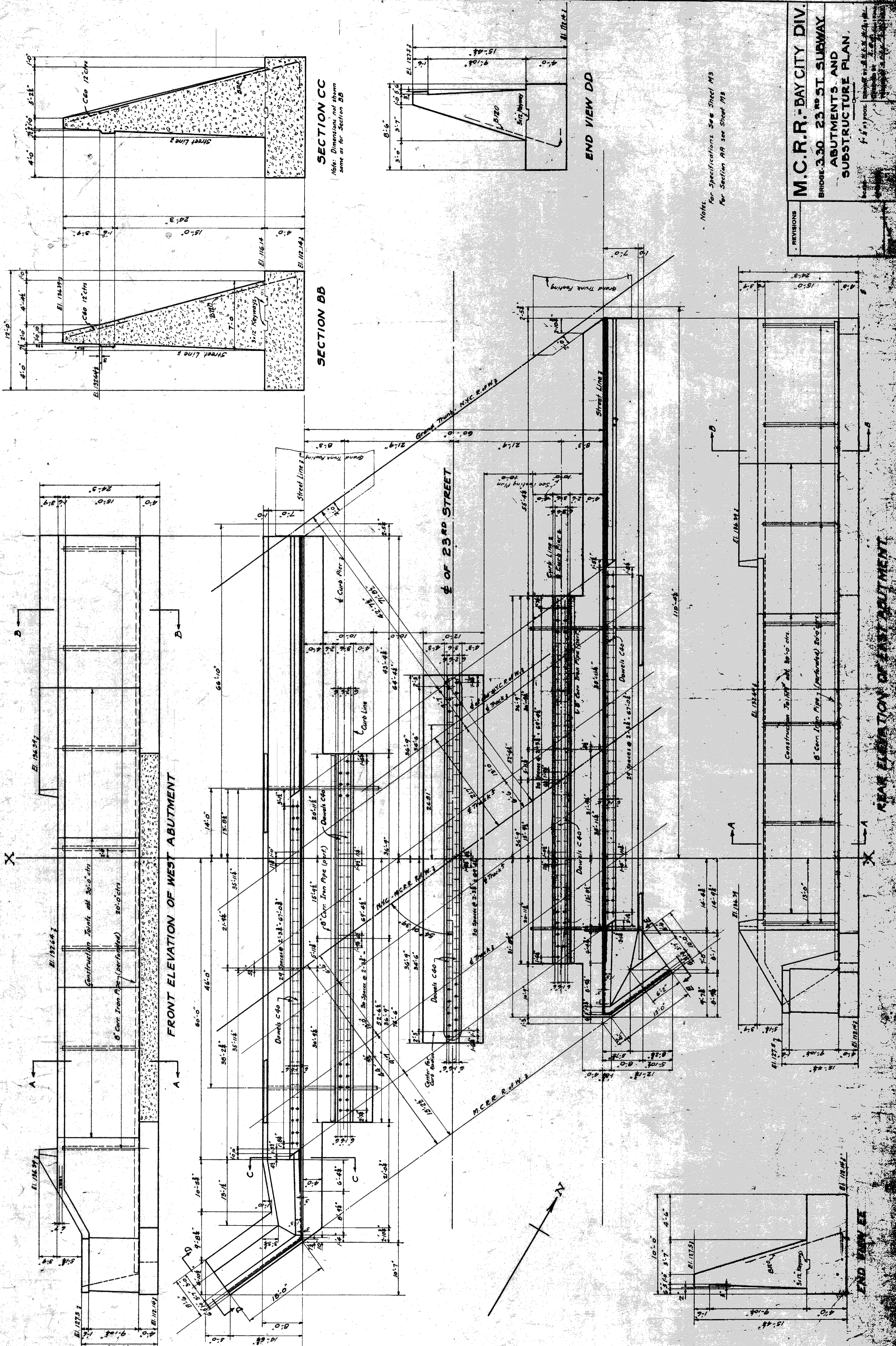
ELEVATION OF CENTER PIER (Looking West)



ELEVATION OF EAST CURB PIER (Looking West)

REVISIONS	M.C.R.R. - BAY CITY DIV.
	BRIDGE 3.30 23RD ST SUBWAY
	FOOTING PLAN AND PIER ELEVATIONS
	SCALE: 1" = 2'-0"
	DRAWN BY: G.E.S.K. 6/11/24
	CHECKED BY: G.E.S.K. 6/11/24
	APPROVED BY: A.C.C. 6/11/24

FILE NO.



SECTION CC
 Note: Dimensions not shown same as for Section BB

SECTION BB

END VIEW DD

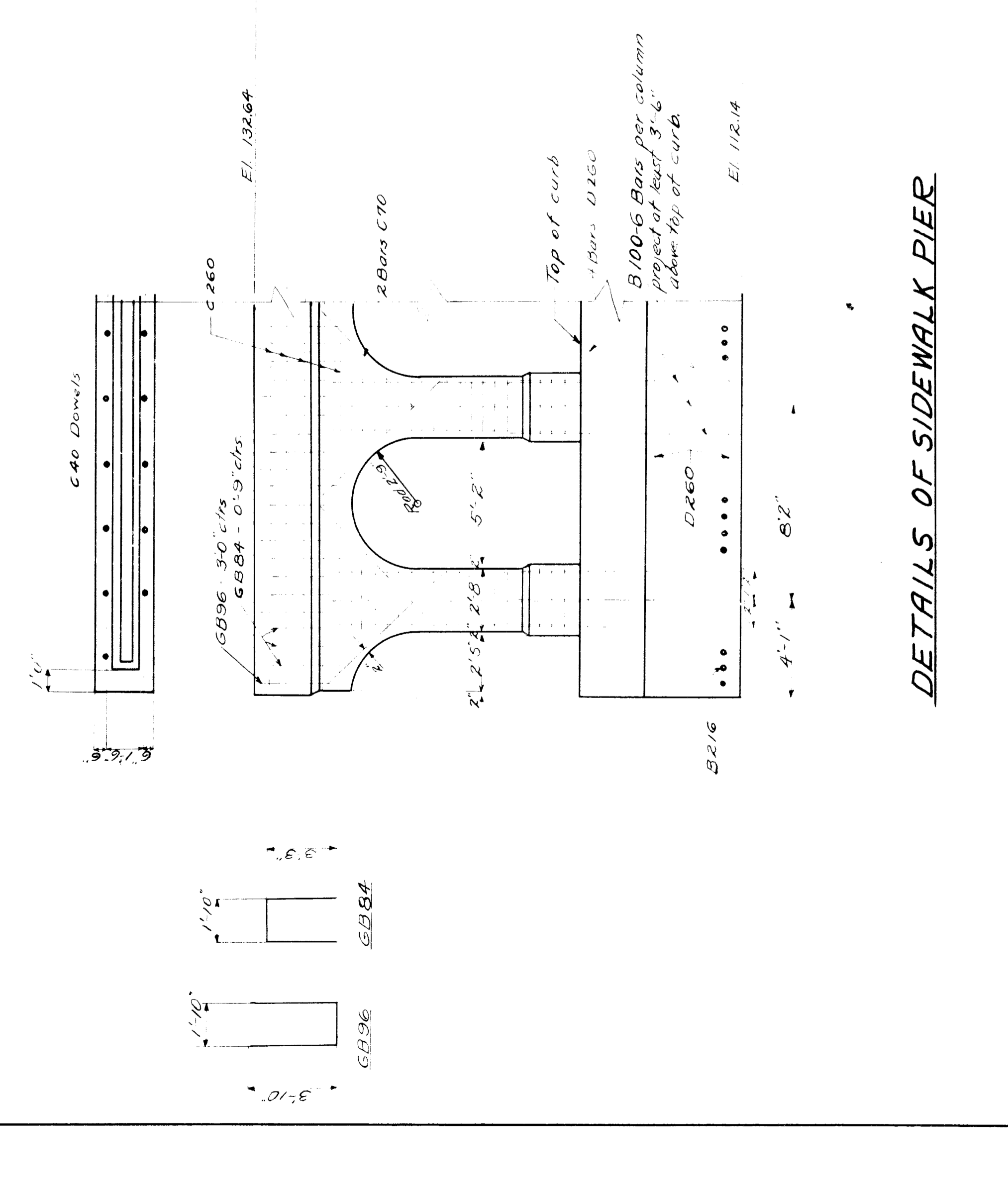
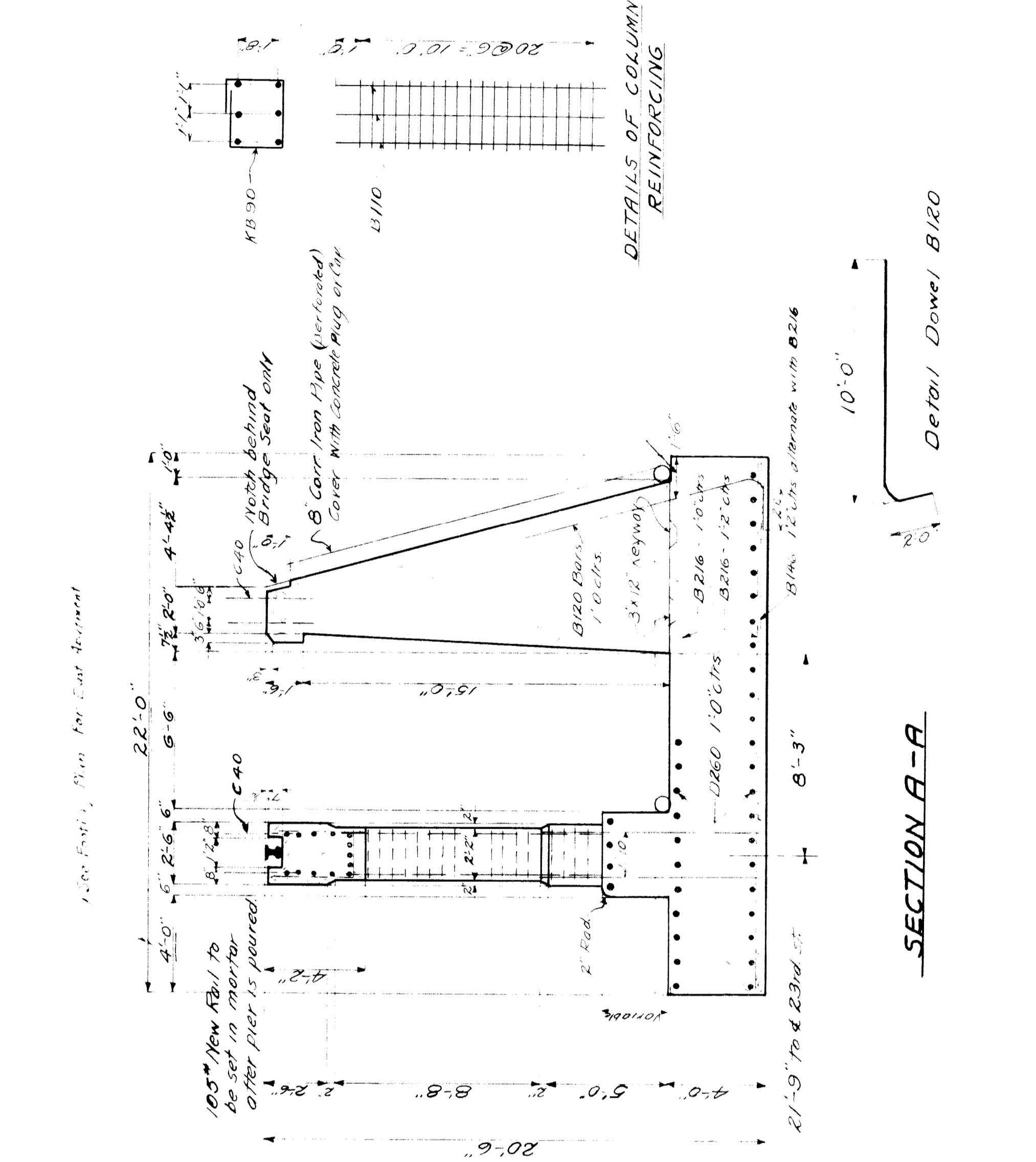
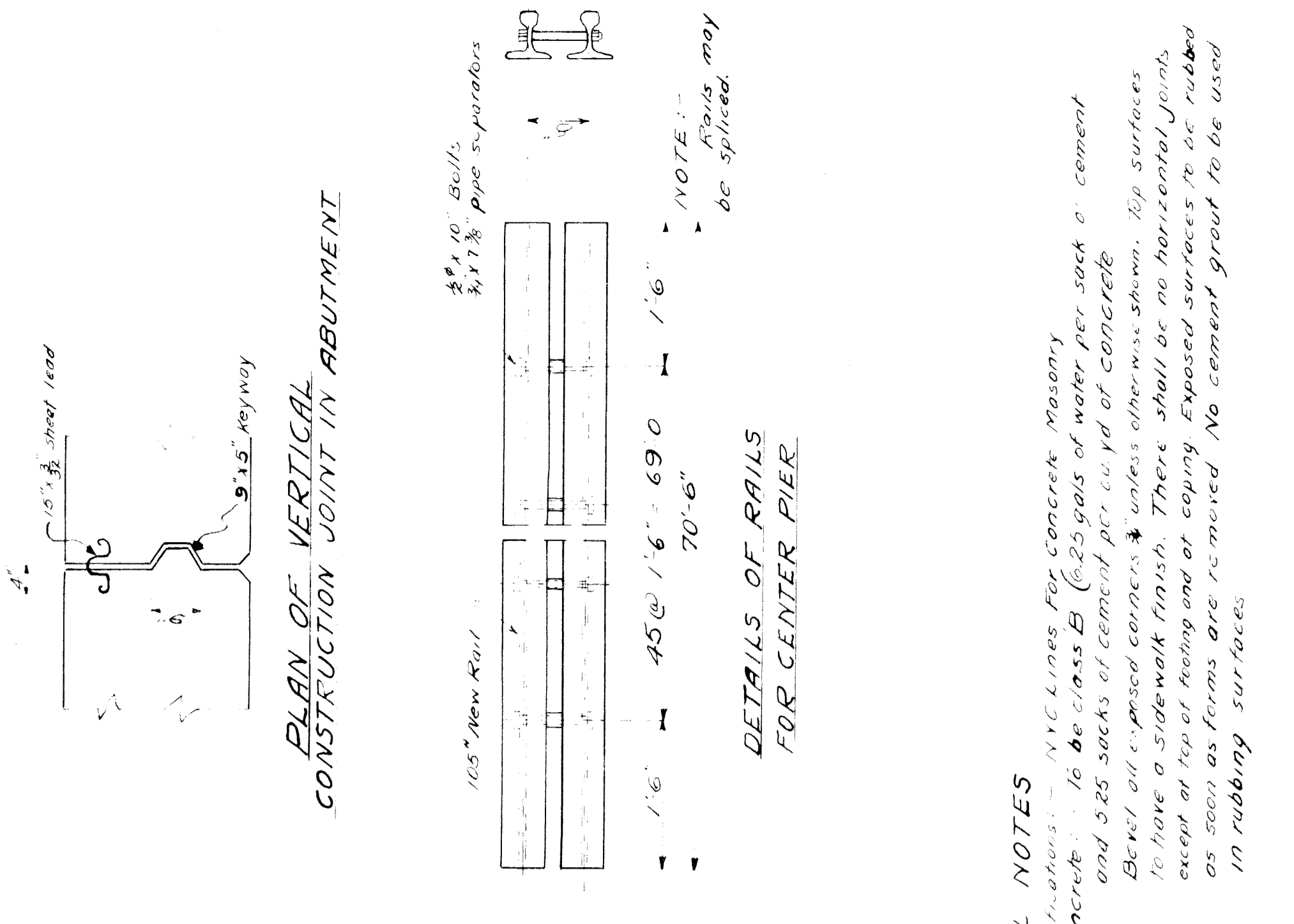
END VIEW EE

Notes:
 For Specifications See Sheet M3
 For Section AA see Sheet M3

M.C.R.R. - BAY CITY DIV.
 BRIDGE 330 23RD ST. SUBWAY
 ABUTMENTS AND
 SUBSTRUCTURE PLAN.

REVISIONS

REAR ELEVATION OF WEST ABUTMENT



GENERAL NOTES
See Plans. - NYC Lines For Concrete Masonry
Concrete to be class E (25 gals of water per sack of cement and 525 sacks of cement per cu yd of concrete)
Bertoloni exposed corners unless otherwise shown. Top surfaces to have a sidewalk finish. There shall be no horizontal joints except at top of footing and of coping. Exposed surfaces to be rubbed as soon as forms are removed. No cement grout to be used in rubbing surfaces.

Reinforcing: All bars to be deformed. They shall be securely wired together at each intersection. At splices they shall lap for a length of 40 diameters and be securely wired. S.I.P. #309 wires to be used unless otherwise shown.

Waterproofing: Backs of Abutments shall be painted with two coats of asphaltic waterproofing.

Drains: - Shall be laid to drain and be connected to city sewer by Substructure Contractor.

QUANTITIES

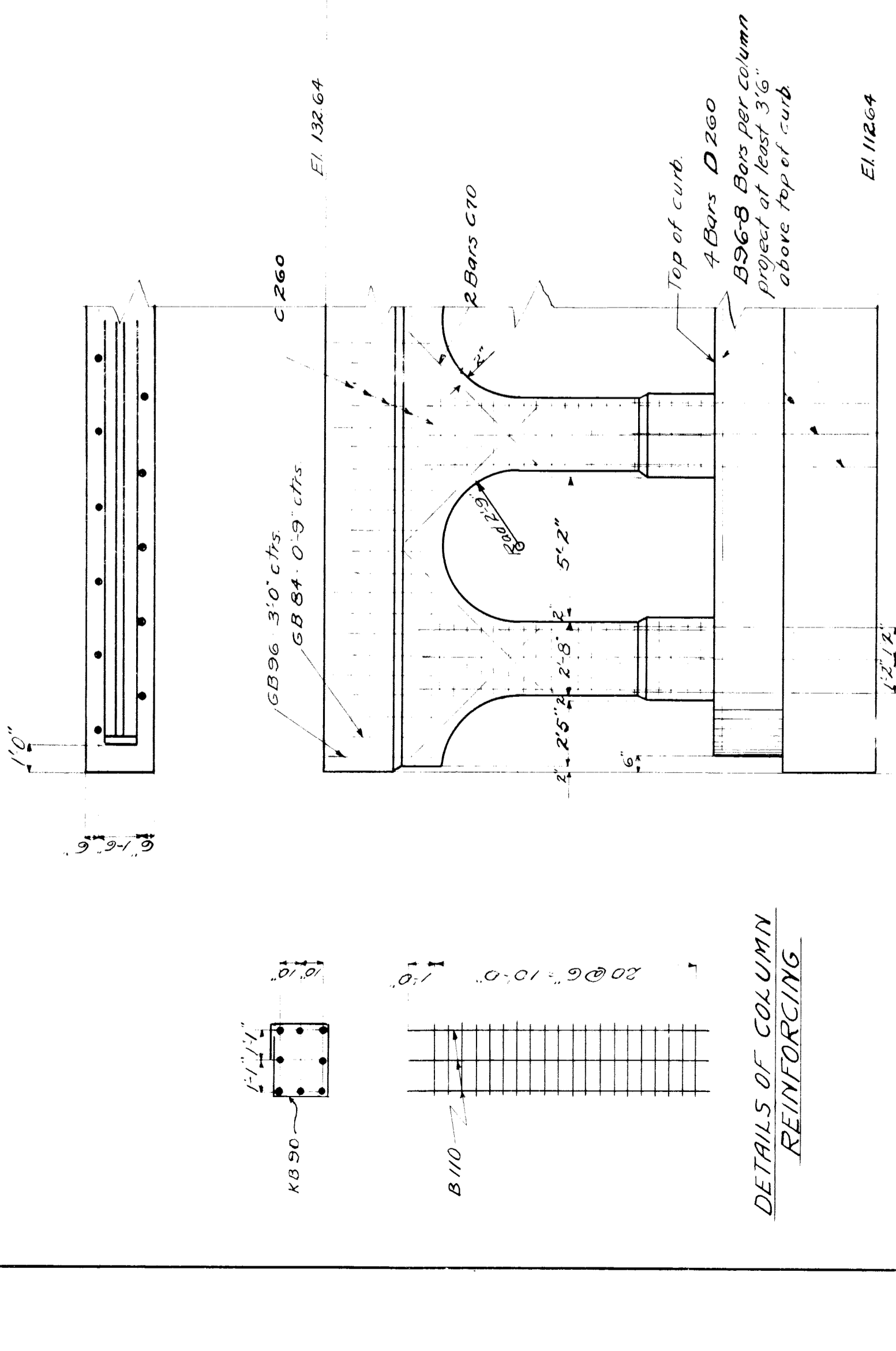
Concrete	Center Pier	West Abutment	East Abutment	Total
Footing	177	219	396	792
Center Pier	177	-	-	177
West Abutment	-	219	-	219
East Abutment	-	-	396	396
Total	177	219	396	792

Concrete	Center Pier	West Abutment	East Abutment	Total
Center Pier	177	-	-	177
West Abutment	-	219	-	219
East Abutment	-	-	396	396
Total	177	219	396	792

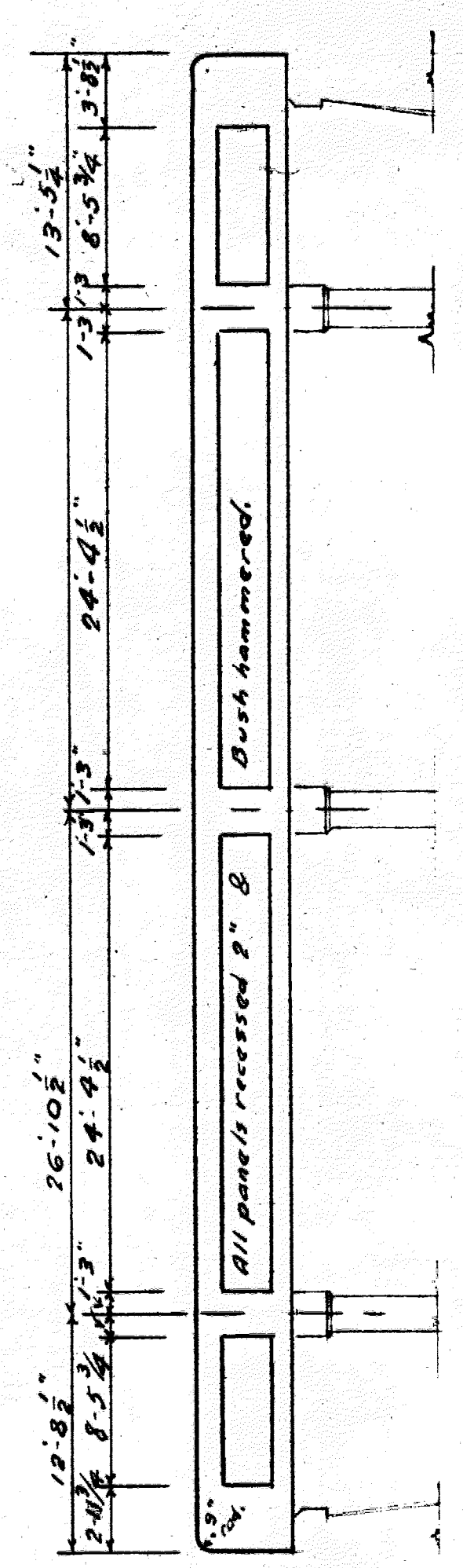
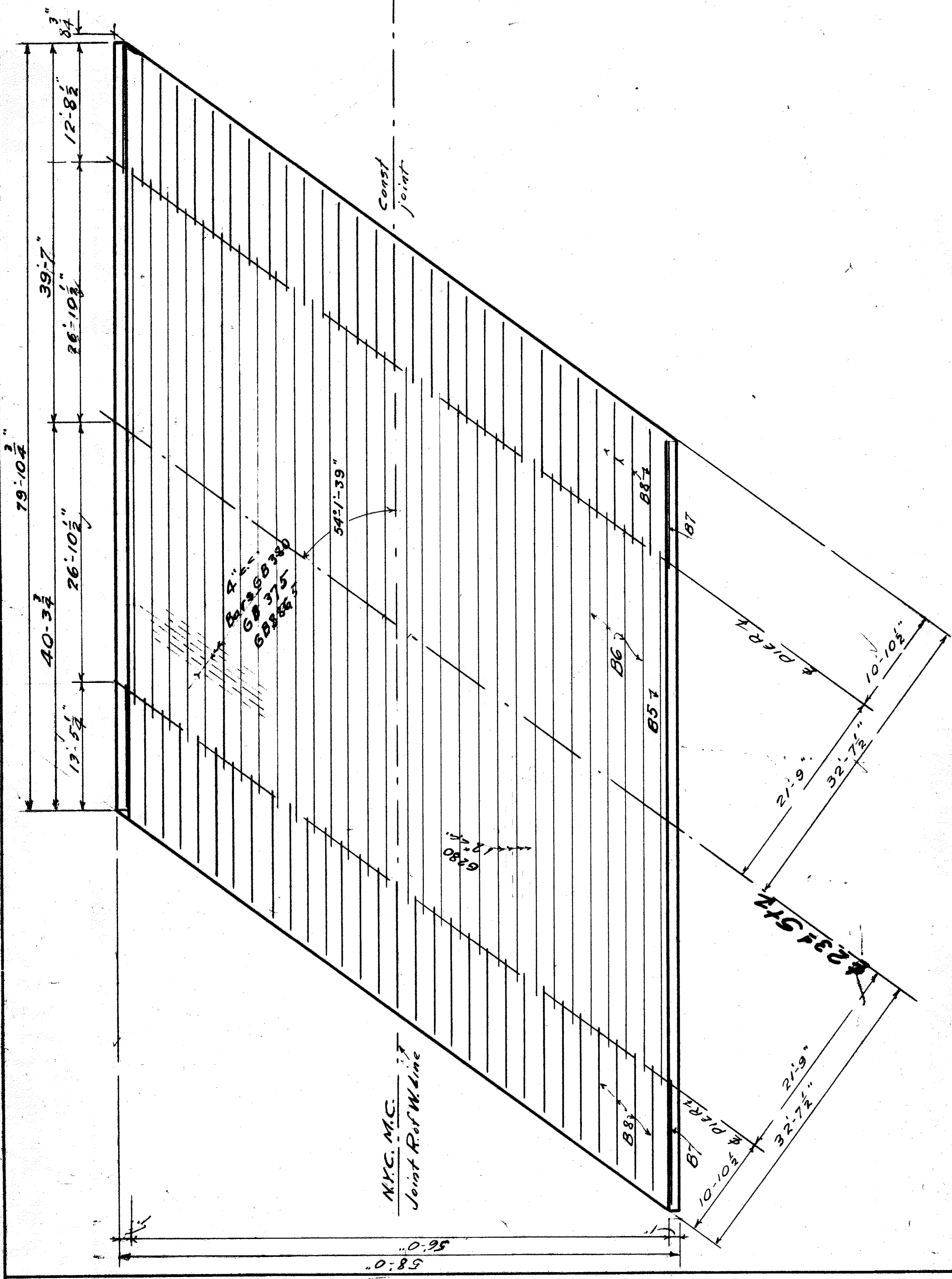
BILL OF BARS

Mark	No.	Size	Length	Remarks
D110	18	3/4"	11'-0"	Trans. in E. Abut. Foot
D124	9	1 1/8"	13'-6"	Long. in W. Abut. Foot
D130	12	1 1/8"	23'-0"	"
D146	11	3/4"	24'-0"	Long. in all footings
D266	345	3/4"	26'-0"	Dowels in top of piers & abut.
C40	304	3/4"	4'-0"	"
C50	120	7/8"	6'-0"	Diagonal over arches
C70	108	7/8"	7'-0"	Trans. center pier foot
C114	110	5/8"	11'-6"	Long. in top of pier
C260	117	5/8"	24'-0"	"
B76	21	1"	7'-6"	E. Abut. Wing
B80	28	1"	8'-0"	Dowels Center Pier
B100	108	1"	10'-0"	Sidewalk Pier
B110	191	1"	11'-0"	Vertical - Piers
B120	95	1"	11'-6"	Trans. in Abut. Foot
B146	120	1"	14'-6"	Dowels
B216	272	1"	21'-6"	Trans.
B290	540	3/4"	9'-0"	Hoops in Pier
B284	210	3/4"	8'-4"	Stirrups in pier
B296	72	3/4"	9'-6"	"

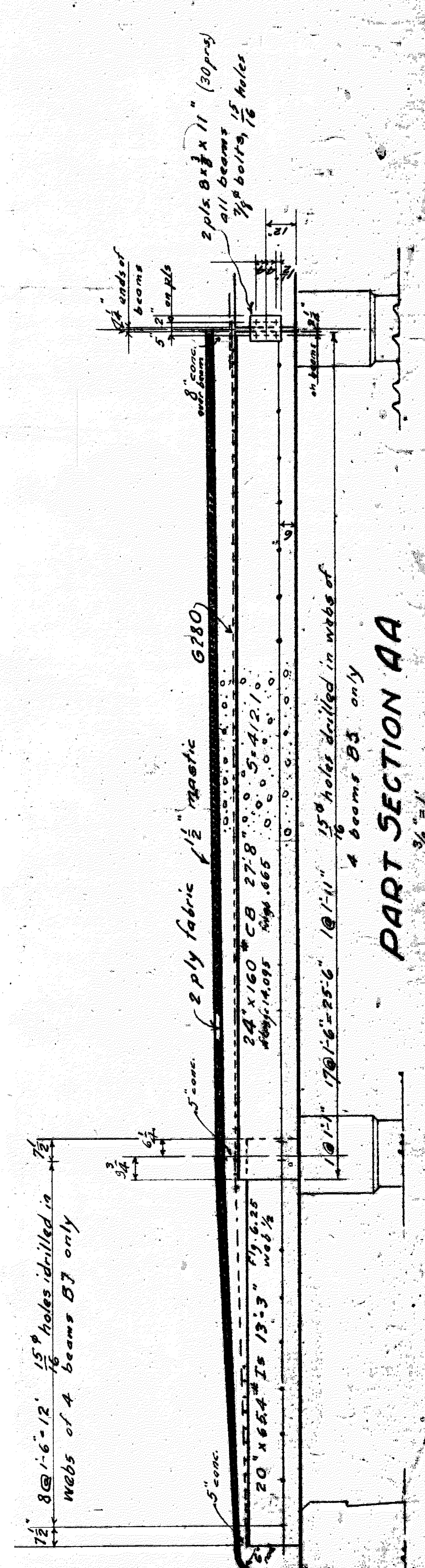
All bars to be corrugated
Weight 76.57*



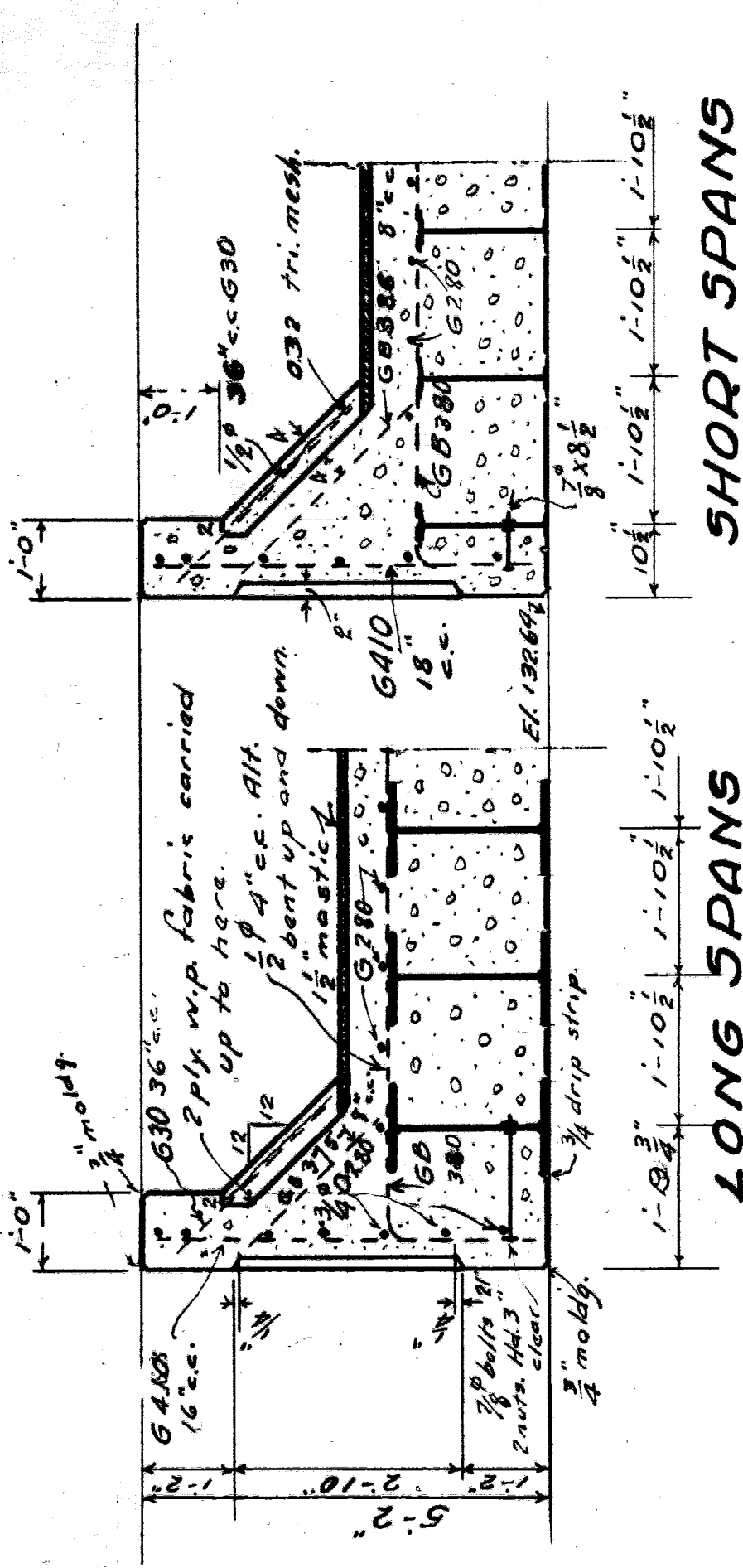
54'-1'-39"
 109 ft = 0.139178
 " 54 = 0.20811
 " 208 = 0.76916
 " 1.37777



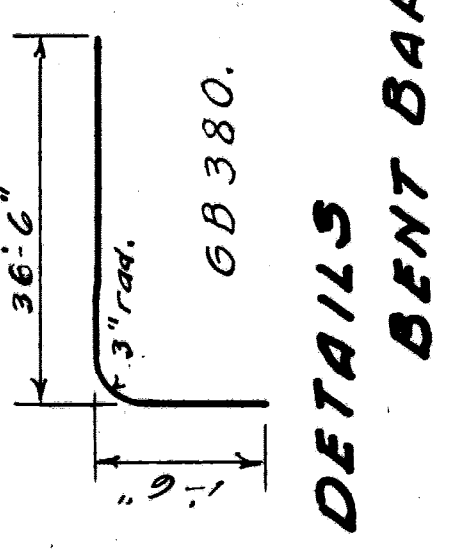
ELEV. OF FASCIA GIRDERS
 1/8" = 1'



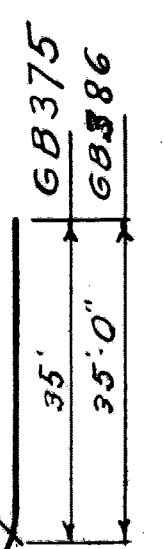
PART SECTION AA
 3/8" = 1'



SHORT SPANS
 LONG SPANS
 - 1/2" = 1'



DETAILS
 BENT BARS.



Mark	No.	Size	Length	Location
G30	54	1/2"	9'-0"	Diag. in wip seal.
G410	108		4'-10"	Vert. in fascia.
G280	165		28'-0"	Length in floor.
G380	200		38'-0"	Transv. in all spans.
G375	130		37'-6"	" long "
GB386	63	1/2"	38'-6"	" short "
D280	42	3/4"	28'-0"	Length in fascia.
D Mod	200'			24" wide.
Bolt				Rep. 3429

BILL OF REINF. BARS, ETC.

GENERAL NOTES

Concrete "A" N.Y.C. Spec. (4.75 gals. water per sack of cement and 7.25 sacks cement per cu. yd.)
 All exposed surfaces to be rubbed as soon as stripped.
 No cement grout to be used in rubbing.
 Rebar shall be securely wrapped with wire at all intersections and splices. At splices they shall lap for a distance of 40 diameters.

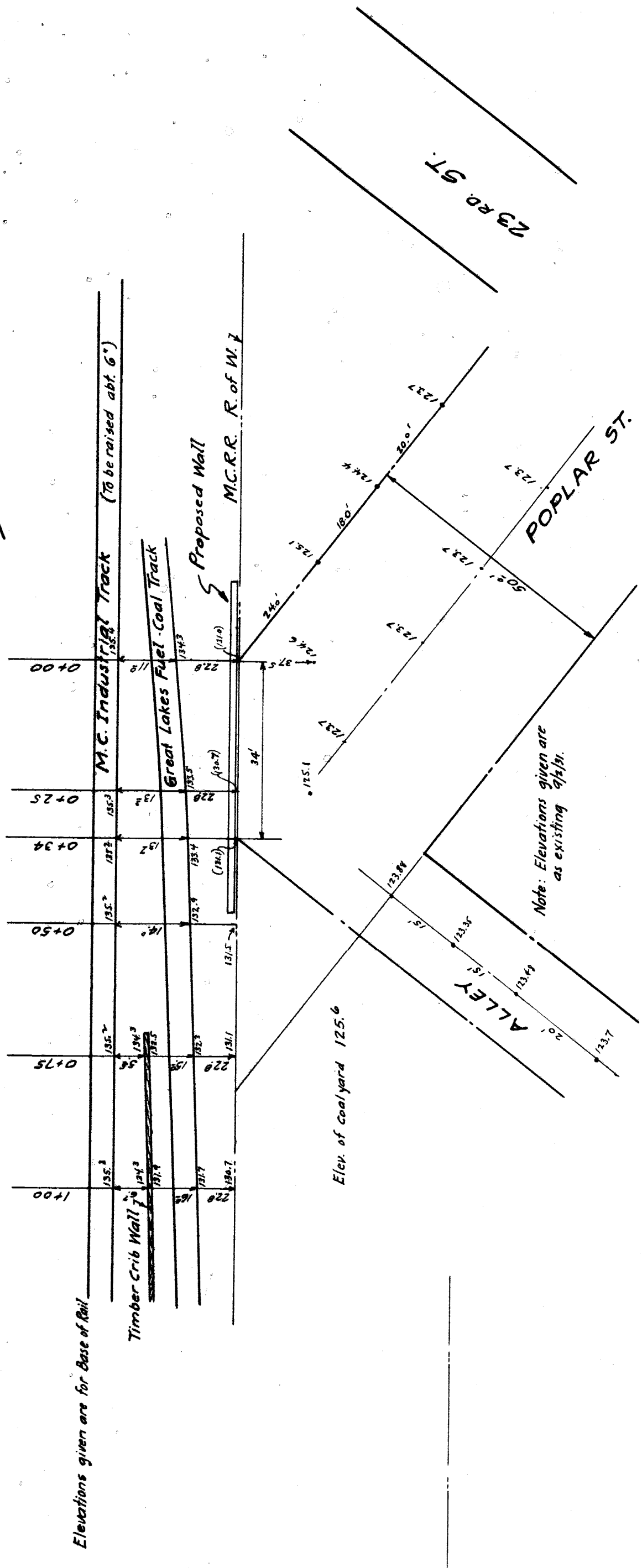
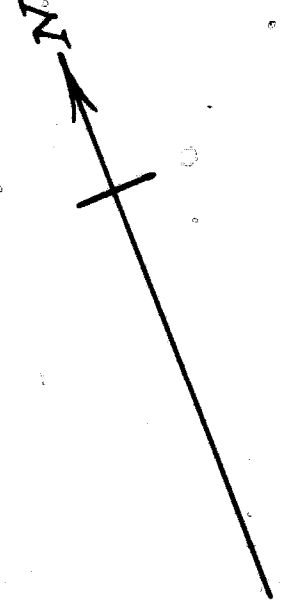
QUANTITIES
 Concrete 4807 cu. yd.
 W.A. membrane 4398 sq. ft.
 Rebar 16324 lb. (18070 lbs. wt.)
 W. Mesh 280 - 200 - 200 (18 lbs.)
 Steel Beams 32899 lbs. (160 plates)

REVISIONS

M.C.R.R.-BAYCITYDIV.
 BRIDGE 330 23rd STREET
 - FLOOR -

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

Checked by: C.M.C. (10/11/18)
 Drawn by: C.M.C. (10/11/18)



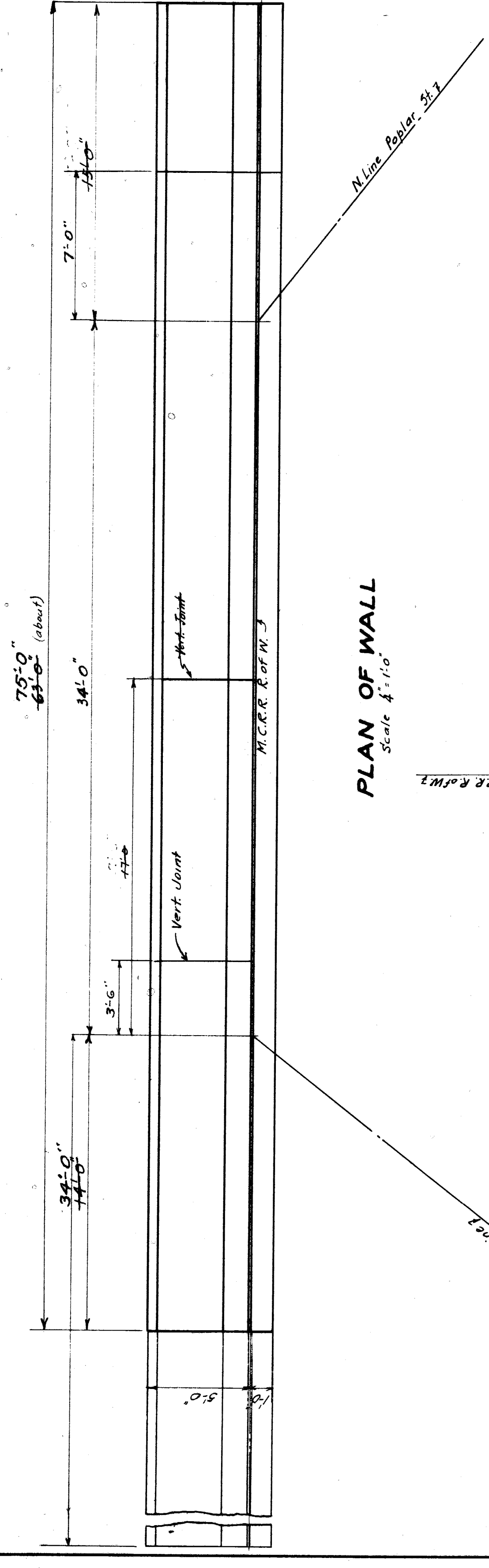
LOCATION PLAN.
Scale 1" = 20'

General Notes:-

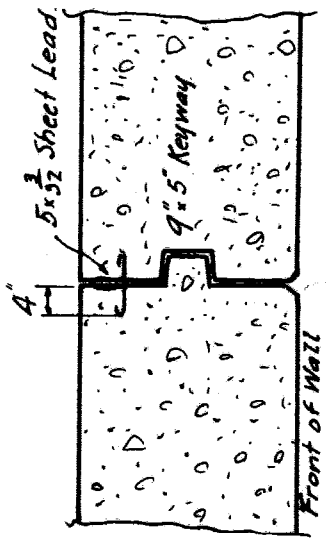
Specifications - N.Y.C. Lines for Concrete Masonry.
Concrete to be Class C (700 galls. of water per sack of cement and 45 sacks of cement per cu. yd. of concrete.
Bars shall be of the best quality and shall be lap spliced to have a sidewalk finish. There shall be no horizontal joints except at top of footing.
Waterproofing - Paint back 2 coats of asphaltic water-painting.
Quantities - Concrete - 86.8 Cu. Yds.
Bars - 12 - 3/4" x 23'0"

Concrete 101 Cu. Yds.
Bars 12 - 3/4" x 23'0" } Cut to 5'-6" long

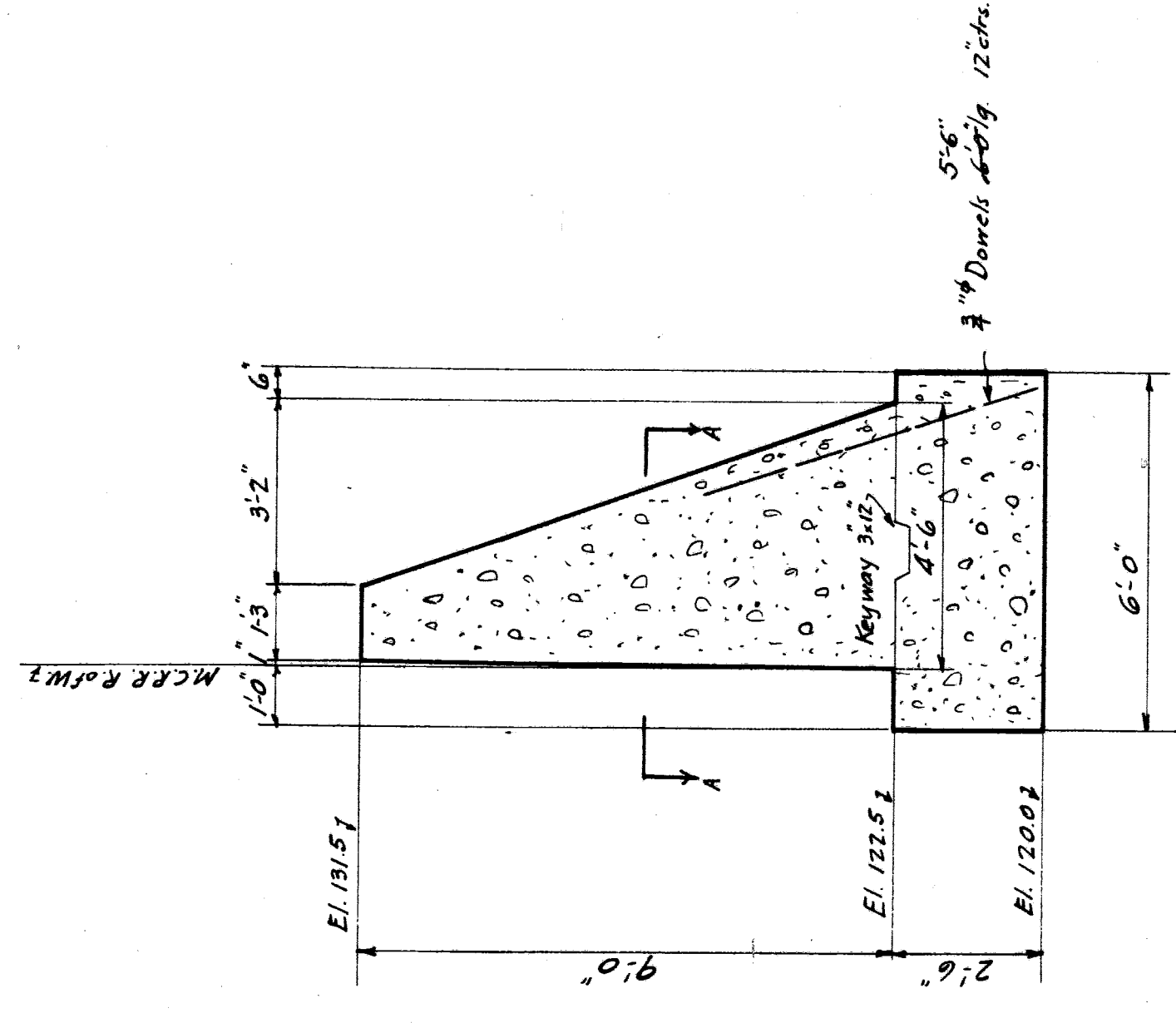
Elevations given are for Base of Wall



PLAN OF WALL
Scale 1/4" = 1'-0"

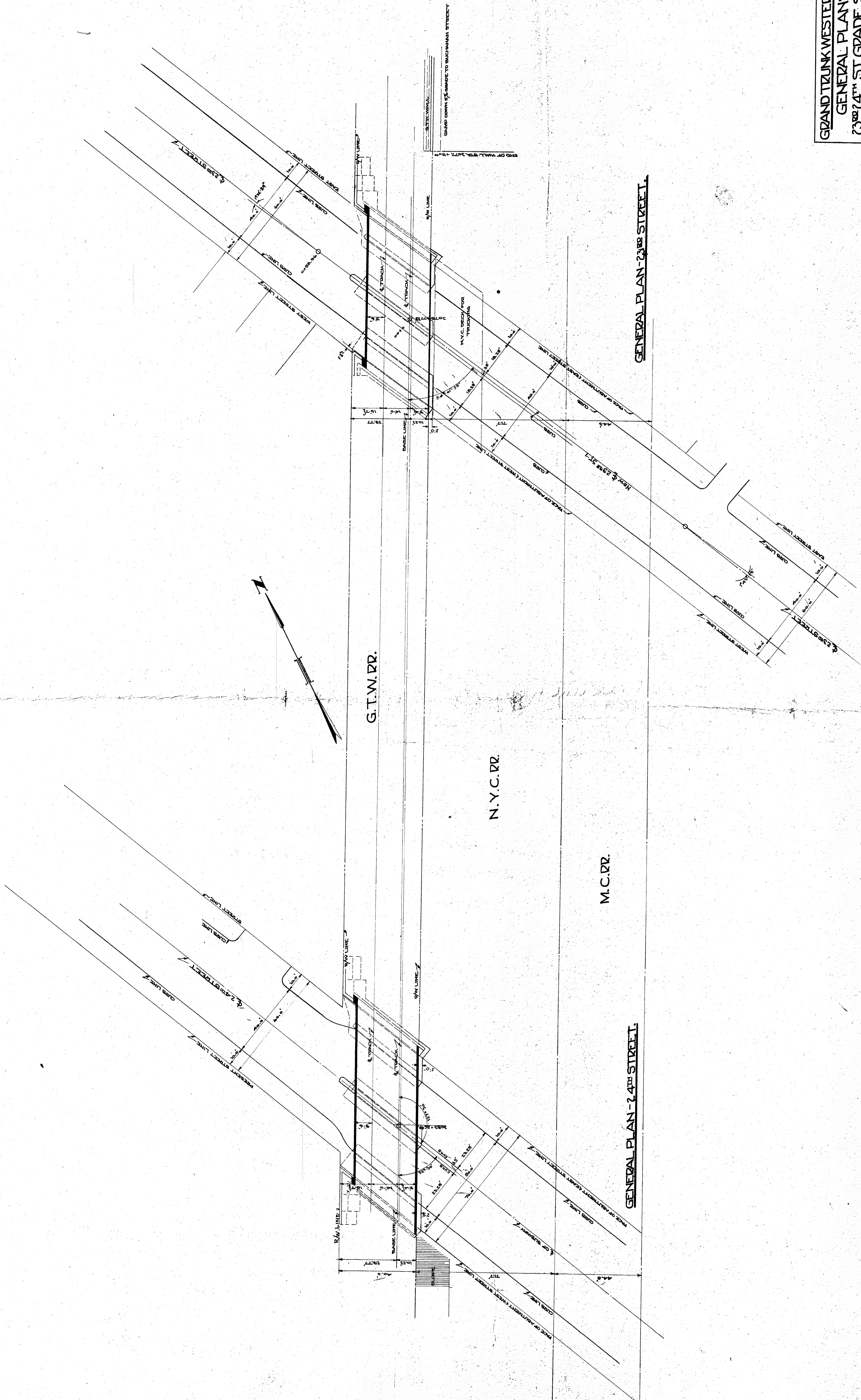


SECTION AA
Showing Vertical Joint.



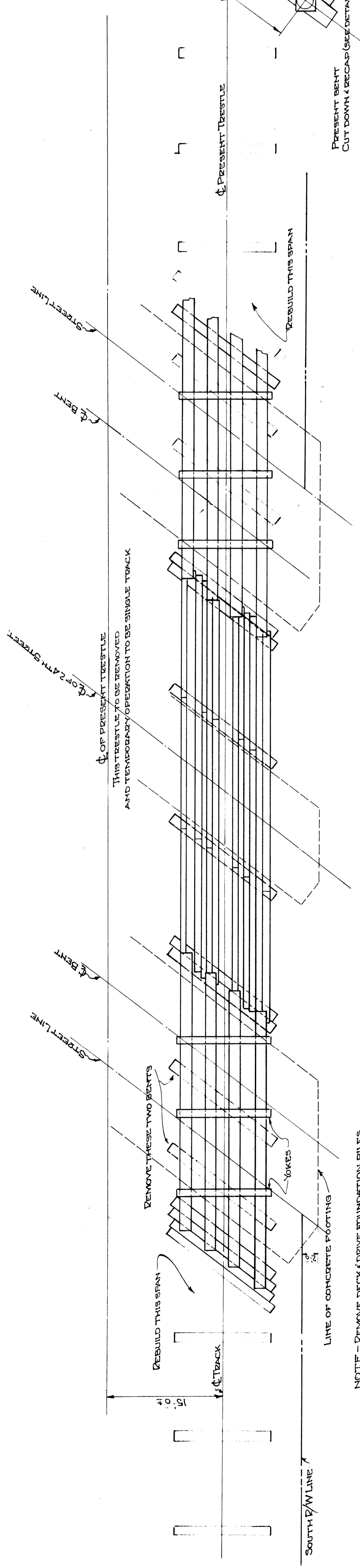
CROSS SECTION
Scale 3/8" = 1'-0"

M.C.R.R. - BAY CITY DIV.	
BRIDGE 3.36	POPLAR ST.
RETAINING WALL	
SCALE - AS SHOWN = 1 FOOT	DRAWN BY - B.S.K. 7-2-1921
APPROVED	CHECKED BY - B.S.K. 7-2-1921
TRACED BY - B.S.K. 7-2-1921	
BRIDGE ENGINEER	
SHEET NO. 1	OF 1

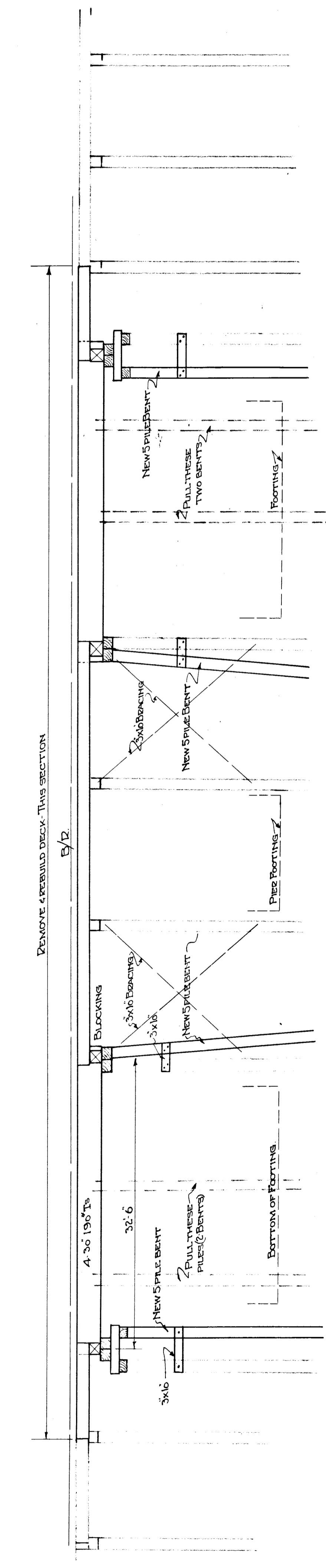


GRAND TRUNK WESTERN RR
GENERAL PLANS
23rd 24th ST. GRADE SEPN
WEST DETROIT, MICHIGAN
 SCALE: 1/4" = 10 FT.
 DESIGNED BY: OFFICE OF CHIEF ENGINEER
 DRAWN BY: DETROIT, MICHIGAN
 CH. I. S.
 JULY 30, 1923
 DRAWING NO. 6647
 FILE

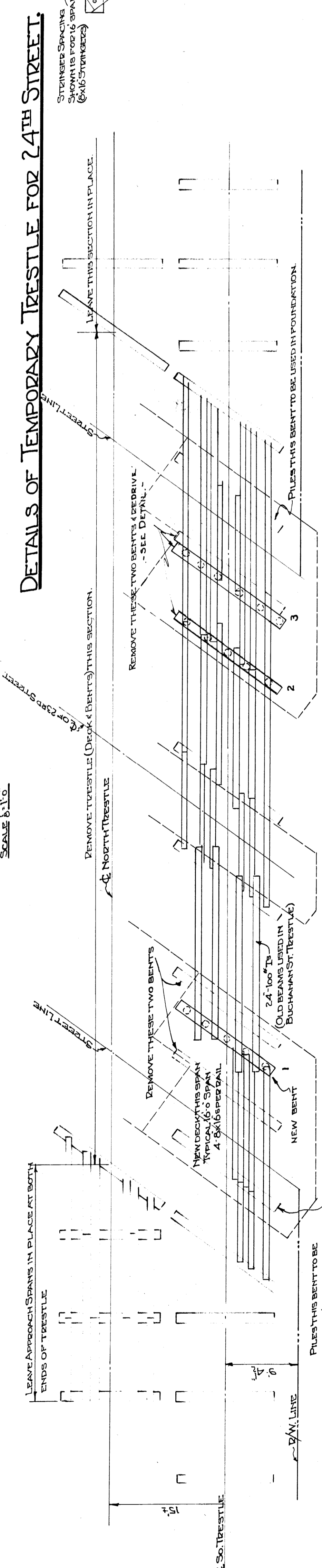
File No. 210
 520



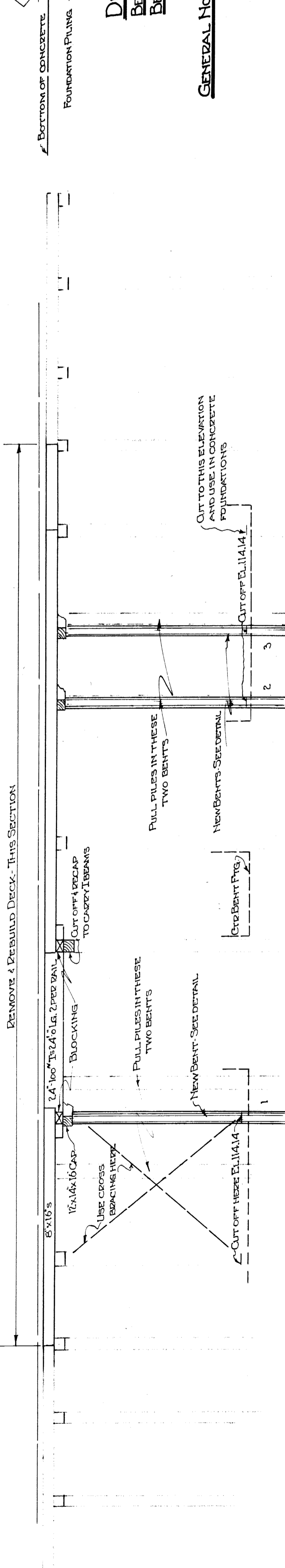
NOTE: REMOVE DECK ABOVE FOUNDATION PILES
 4 NEW TEMPORARY BENTS ON SOUTH TRESTLE. REBUILD
 DECK AND THEN REMOVE ALL OF NORTH TRESTLE.



SECTION ON C-C OF SOUTH TRESTLE.
 SCALE 1/4"=1'-0"

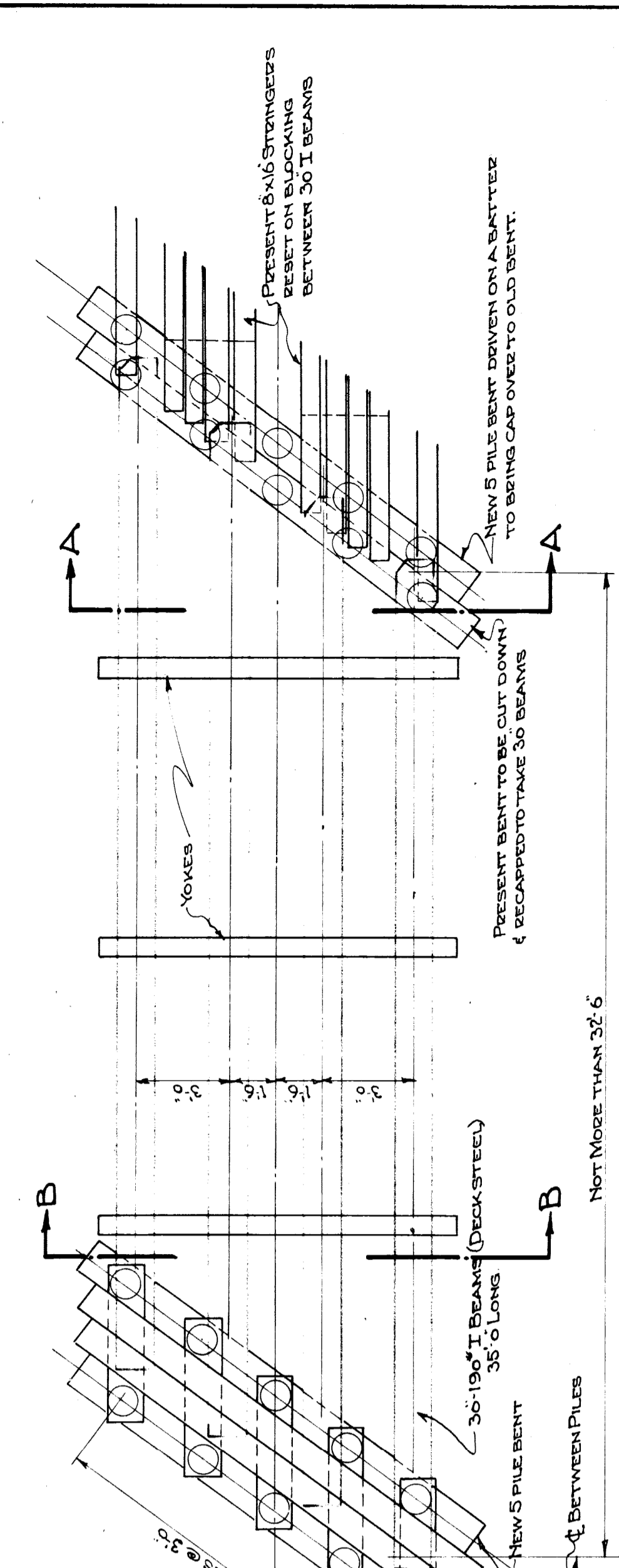


PLAN

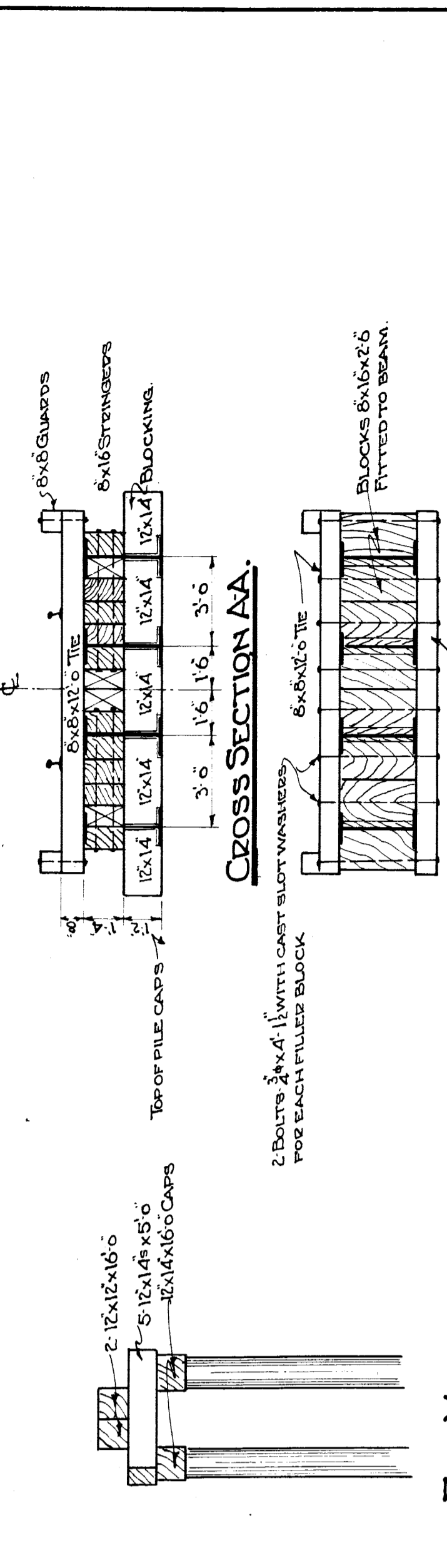


SECTION ON C-C OF SOUTH TRESTLE

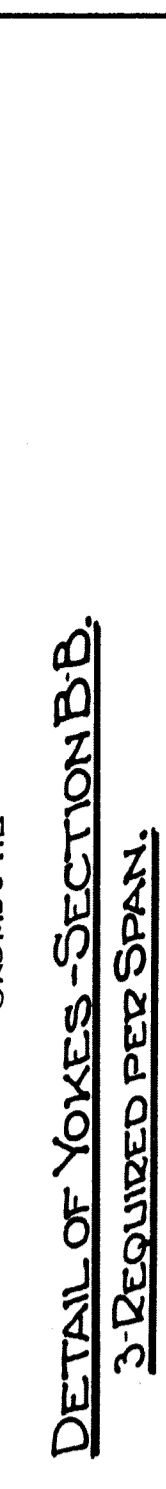
NOTE: BENTS 1 & 2
 NEW BENTS 1 & 2 TO BE REMOVED. LEAVE PILES (6) 24" DIA. IN PLACE. REMOVE ALL
 PILES FROM BENTS WHICH WILL BE REMOVED (2 & 3). BENTS 1 & 2 TO BE CUT OFF
 4 FEET FROM TOP OF DECK. REMOVE DECK AND REBUILD DECK AND MUST BE PLACED
 AS SHOWN ON FOUNDATION PLAN. JOURNAL N° 6022



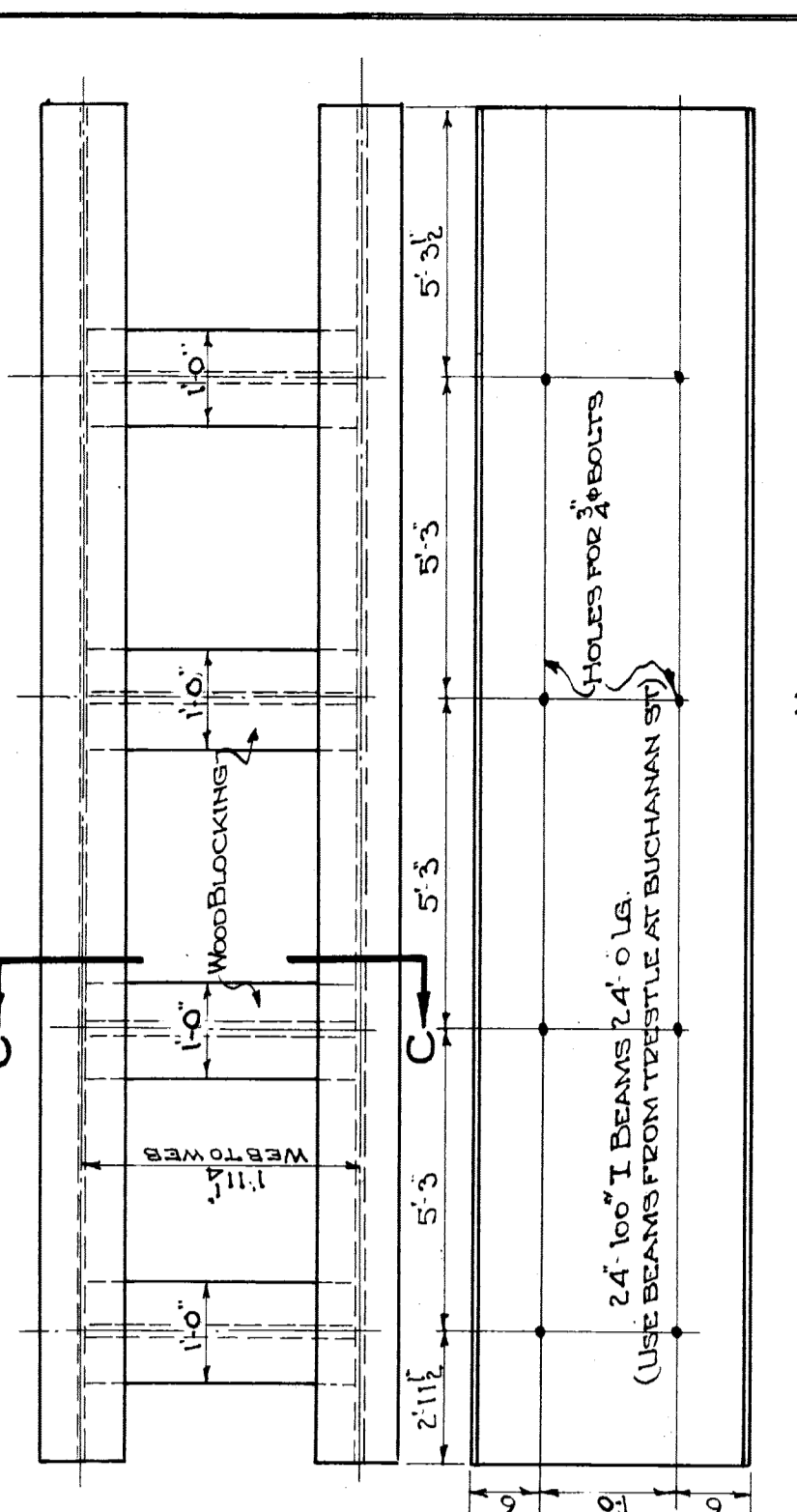
PLAN OF FRAMING-STEEL SPAN
 SCALE 1/4"=1'-0"



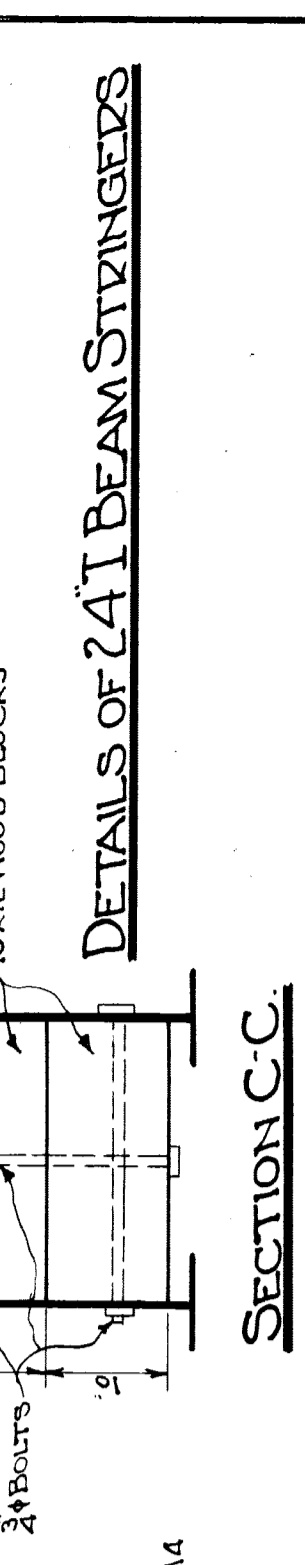
CROSS SECTION AA.



DETAIL OF YOKES SECTION B-B.
 3" REQUIRED PER SPAN



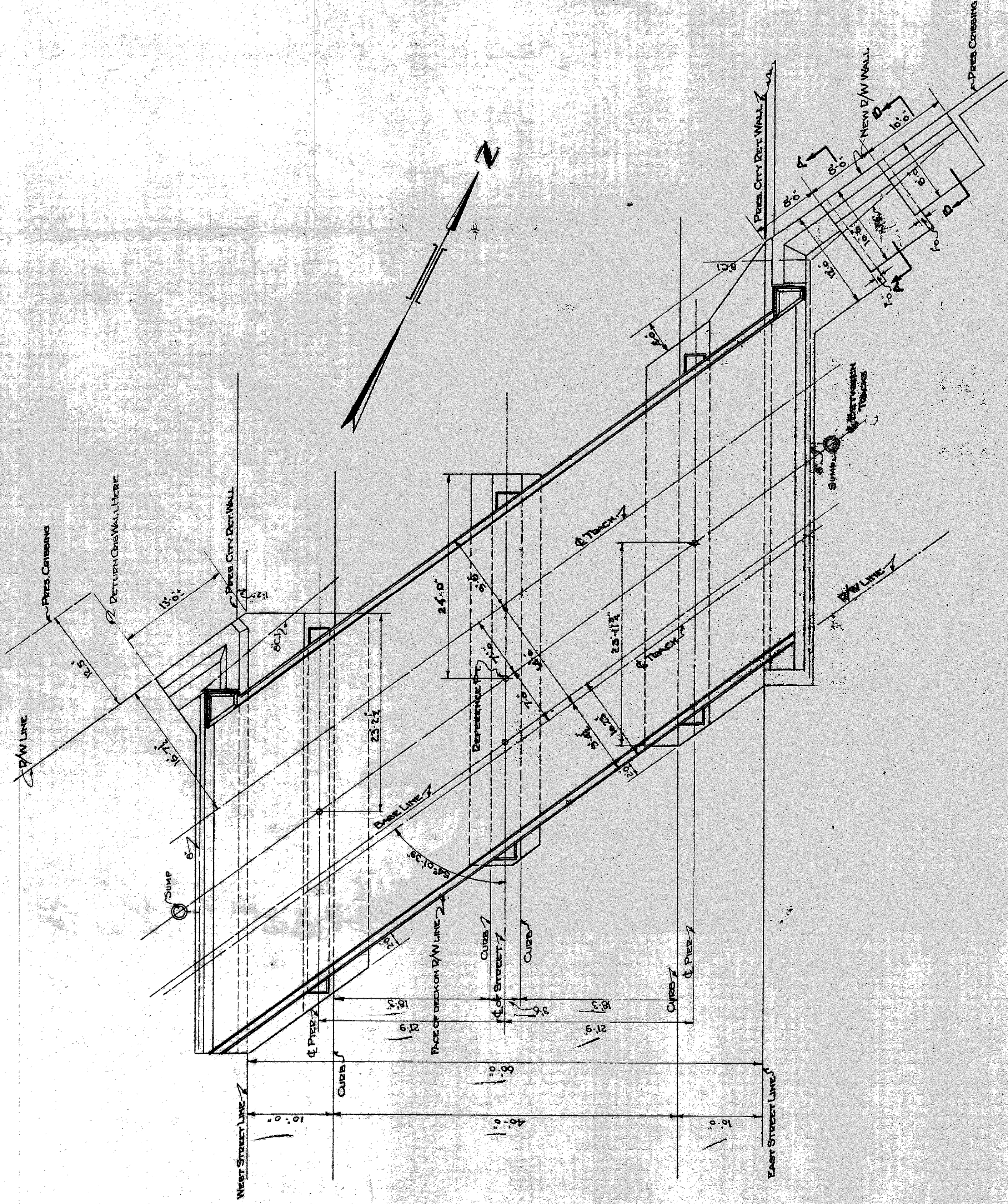
SECTION C-C



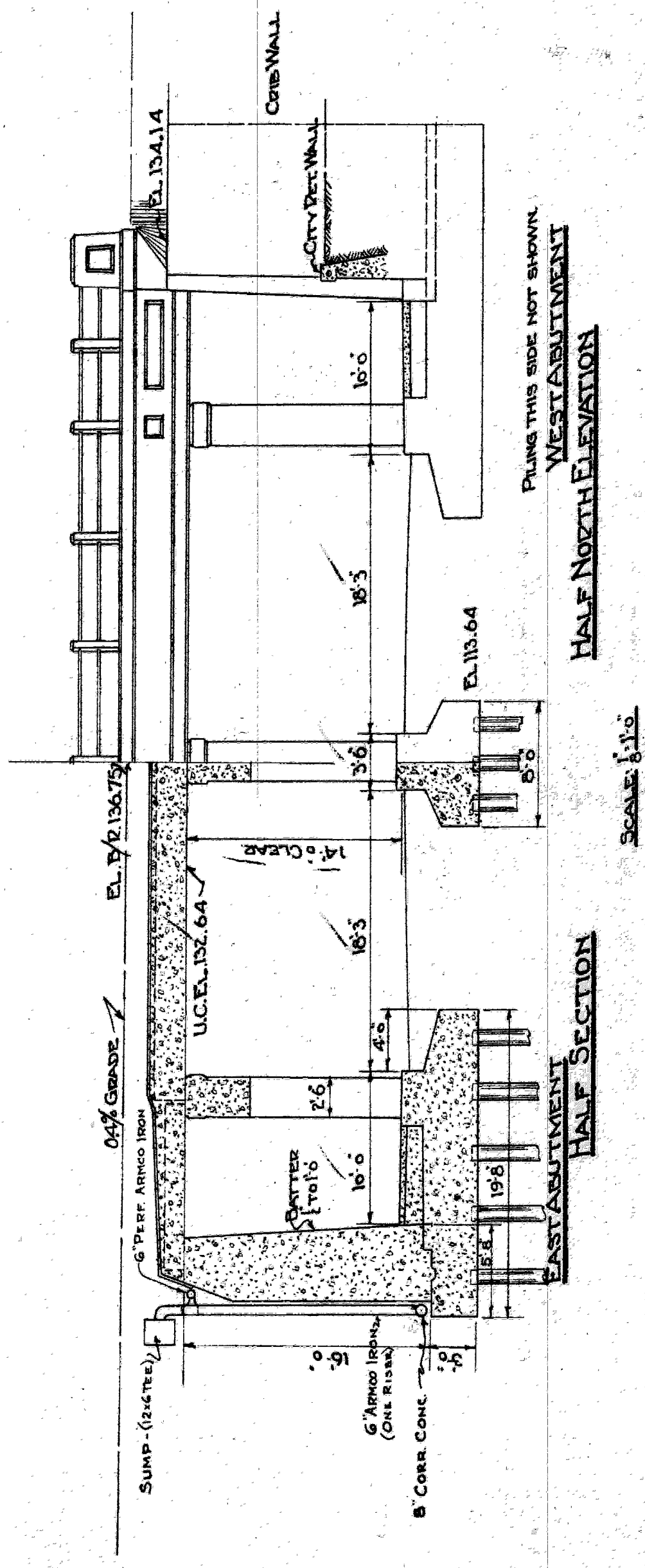
DETAILS FOR BENTS 1 & 2
 BENTS 2-5 PILES EACH. BENT 3-6 PILES
 BENT 4-1 AS SHOWN. BENTS 2 & 3 AS SHOWN IN NOTE

GENERAL NOTE: ALL TIMBER STRINGERS TO BE 6"x16"
 CAPS BENT TO BE DRIFT BOLTED TO CAPS.
 CAPS DRIFT BOLTED TO PILES.
 MATERIAL FOR TIMBER WORK TO BE TRUCK FROM
 PRESENT TRESTLES AS MUCH AS POSSIBLE.
 BEAM SPANS FOR 23RD STREET-USE OLD BEAMS FROM
 PRESENT TRESTLES (24" I-BEAMS 35' 0" LONG,
 24" I-BEAMS 35' 0" LONG,
 24" I-BEAM 35' 0" LONG)
 24" I-BEAM 35' 0" LONG
 24" I-BEAM 35' 0" LONG

DETAILS OF TEMPORARY TRESTLE FOR 23RD STREET

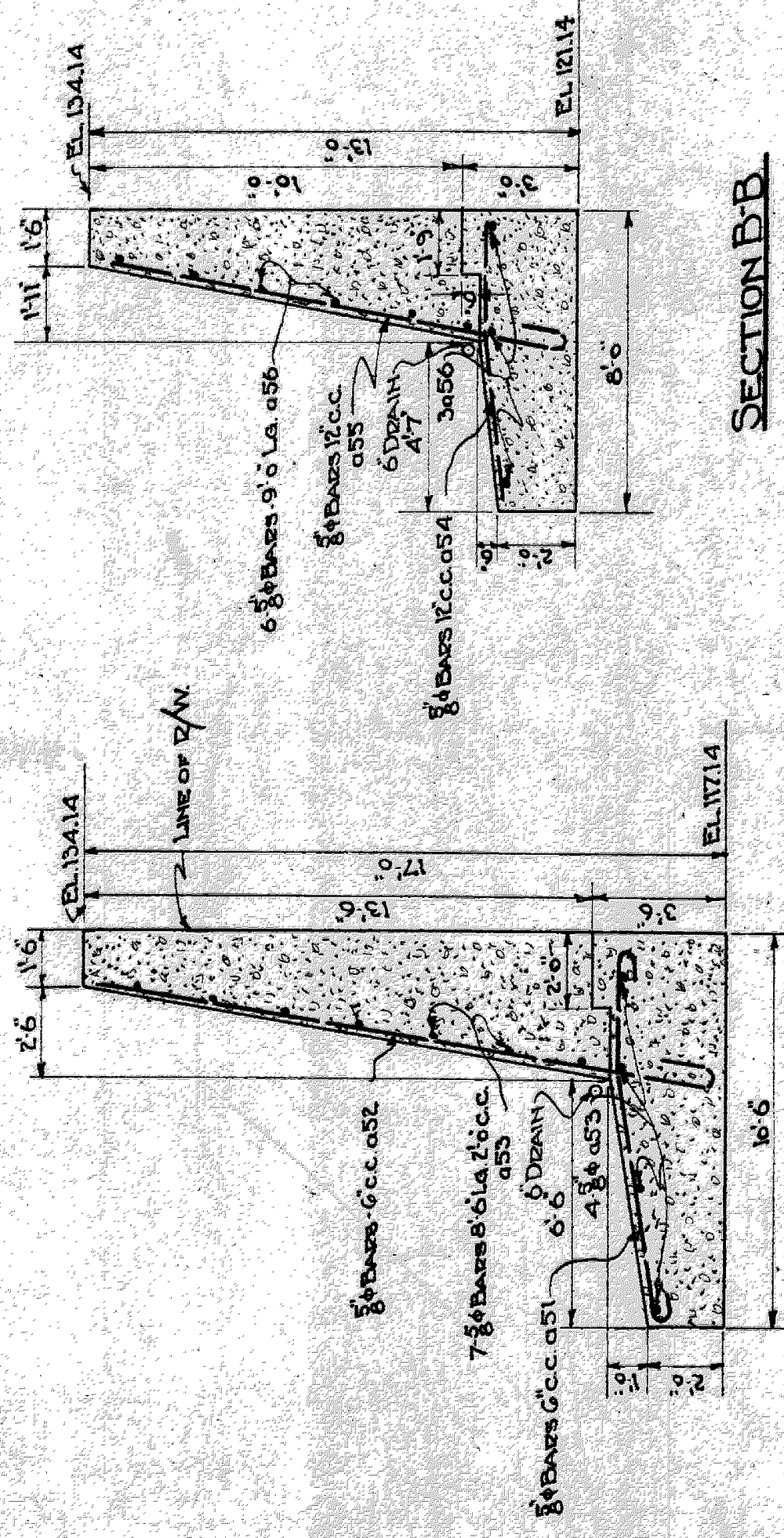


GENERAL PLAN
SCALE 1/8" = 1'-0"



EAST WALL HALF SECTION
SCALE 1/2" = 1'-0"

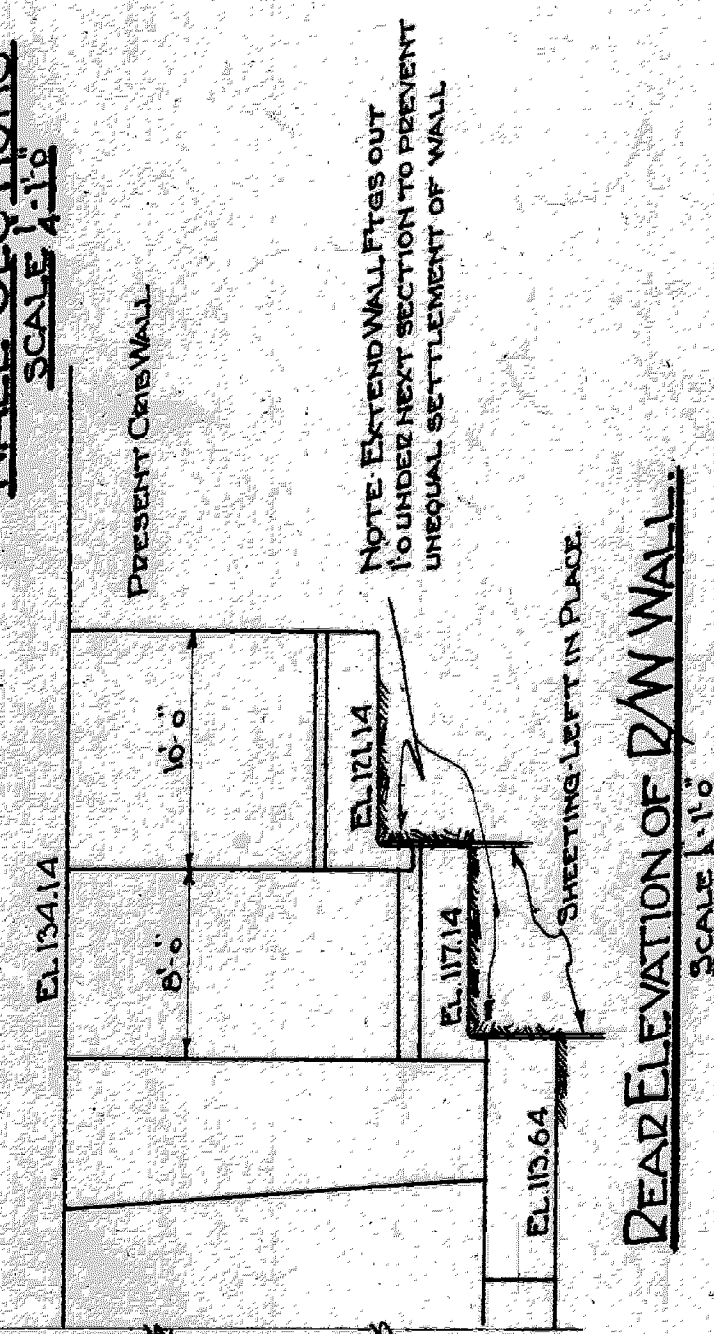
WEST WALL HALF SECTION
SCALE 1/2" = 1'-0"



SECTION A-A

SECTION B-B

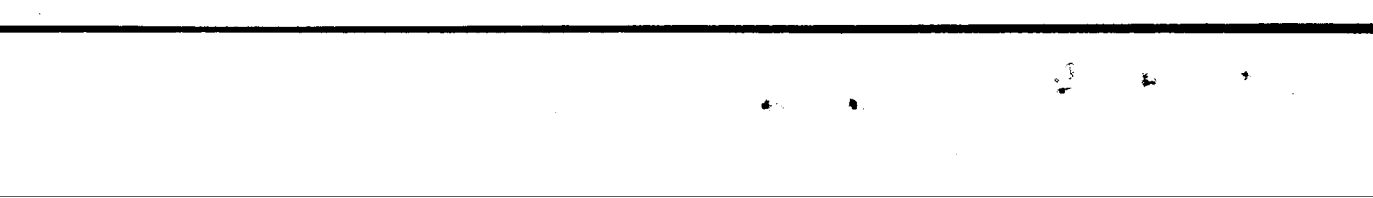
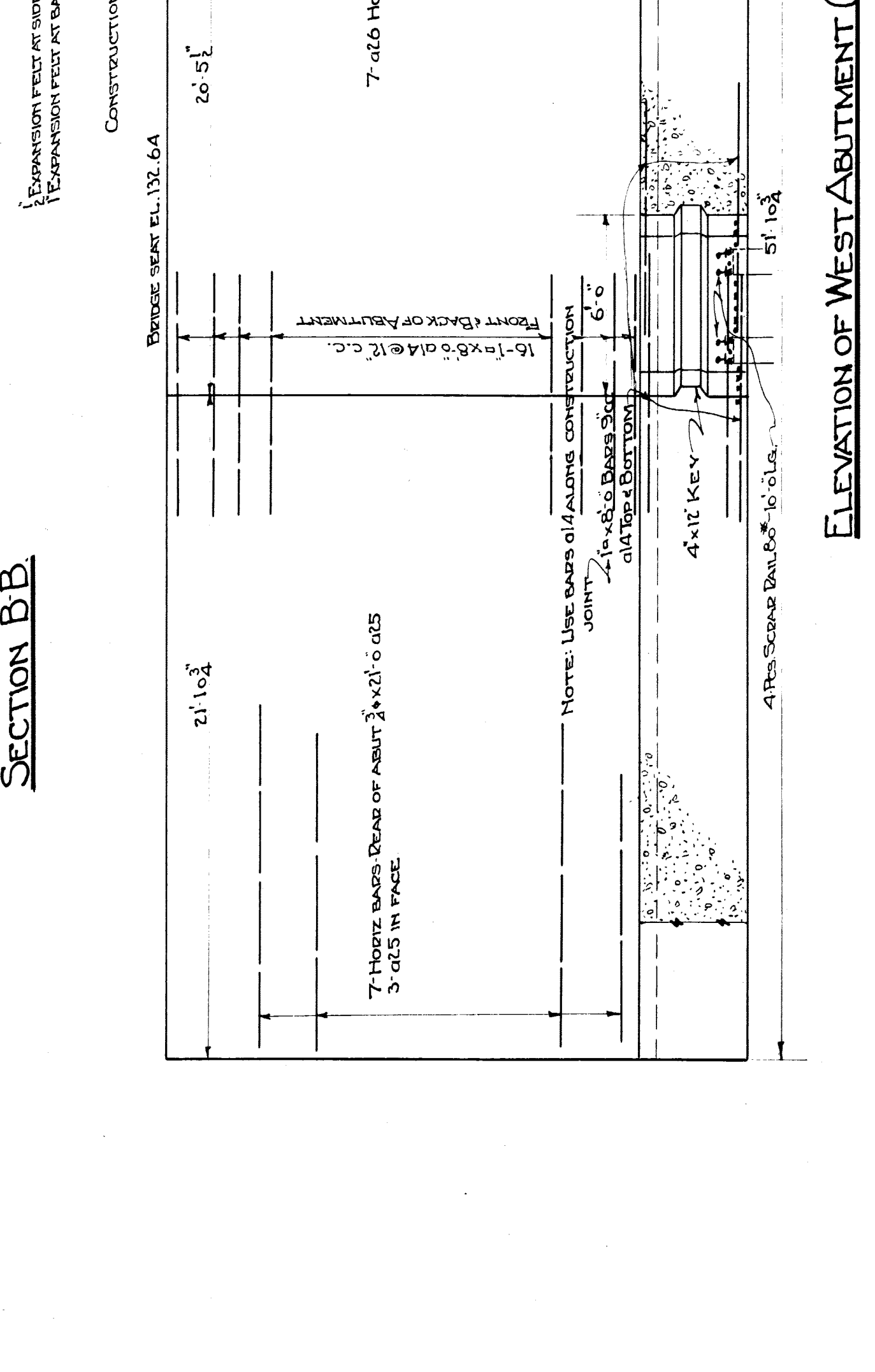
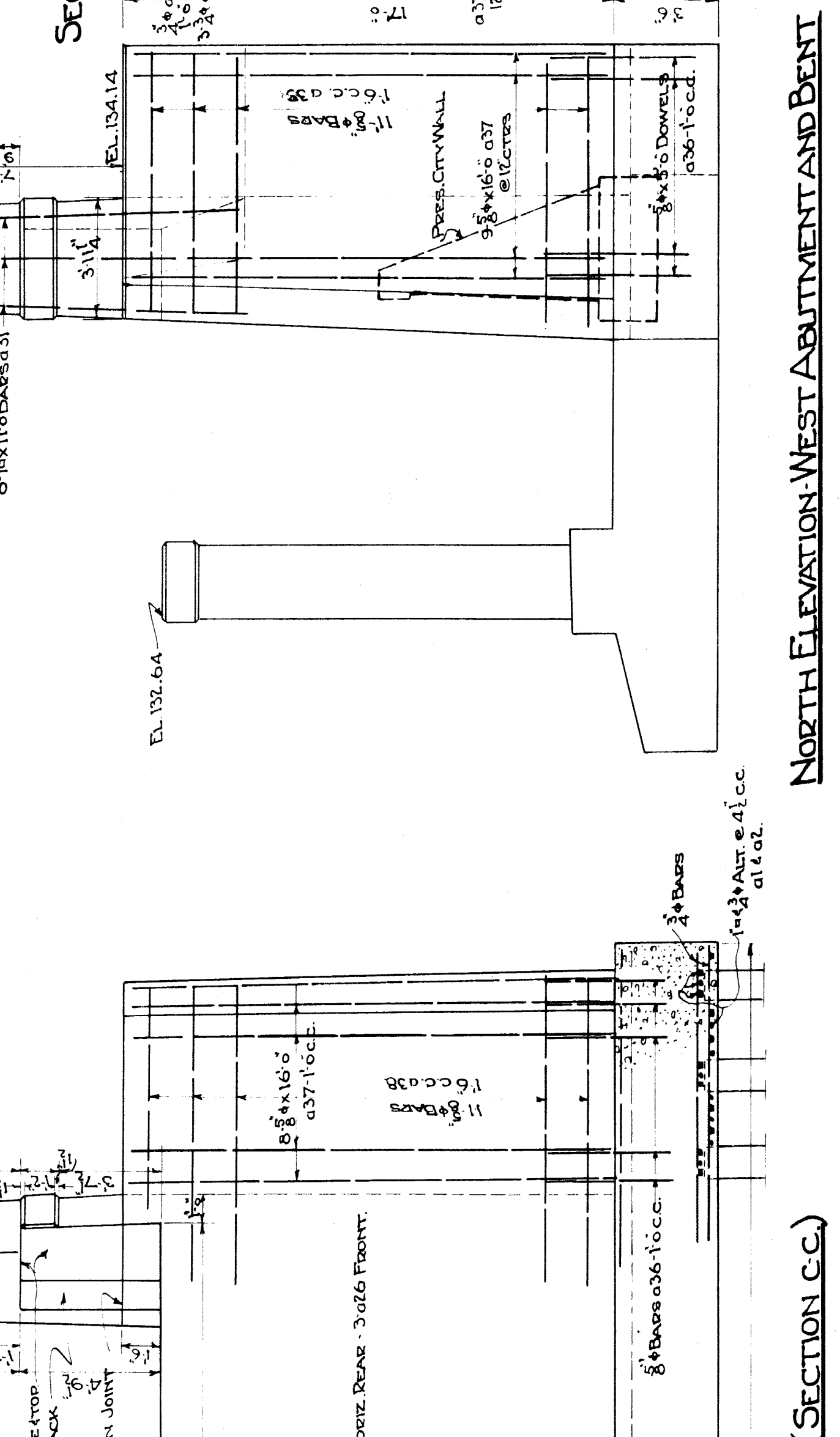
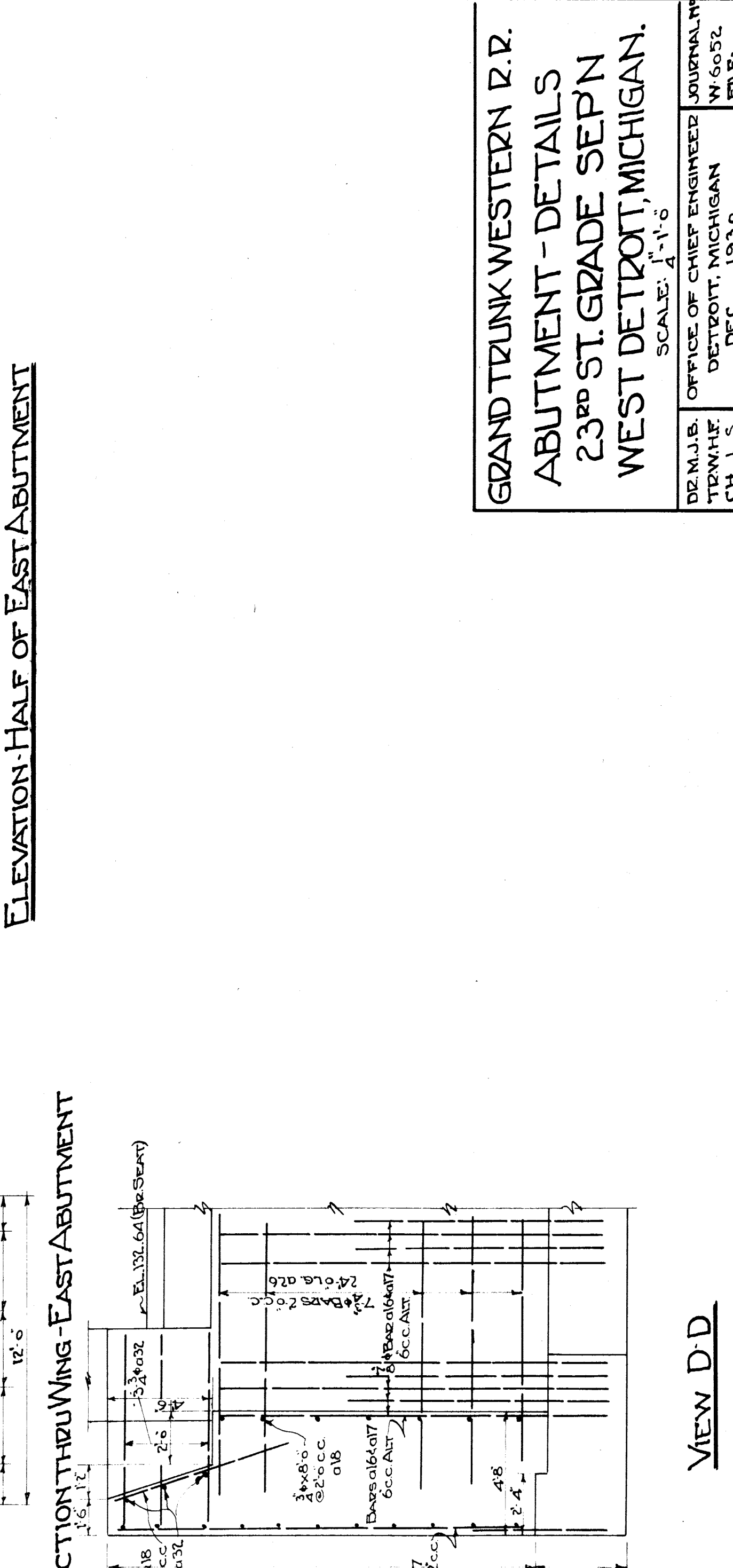
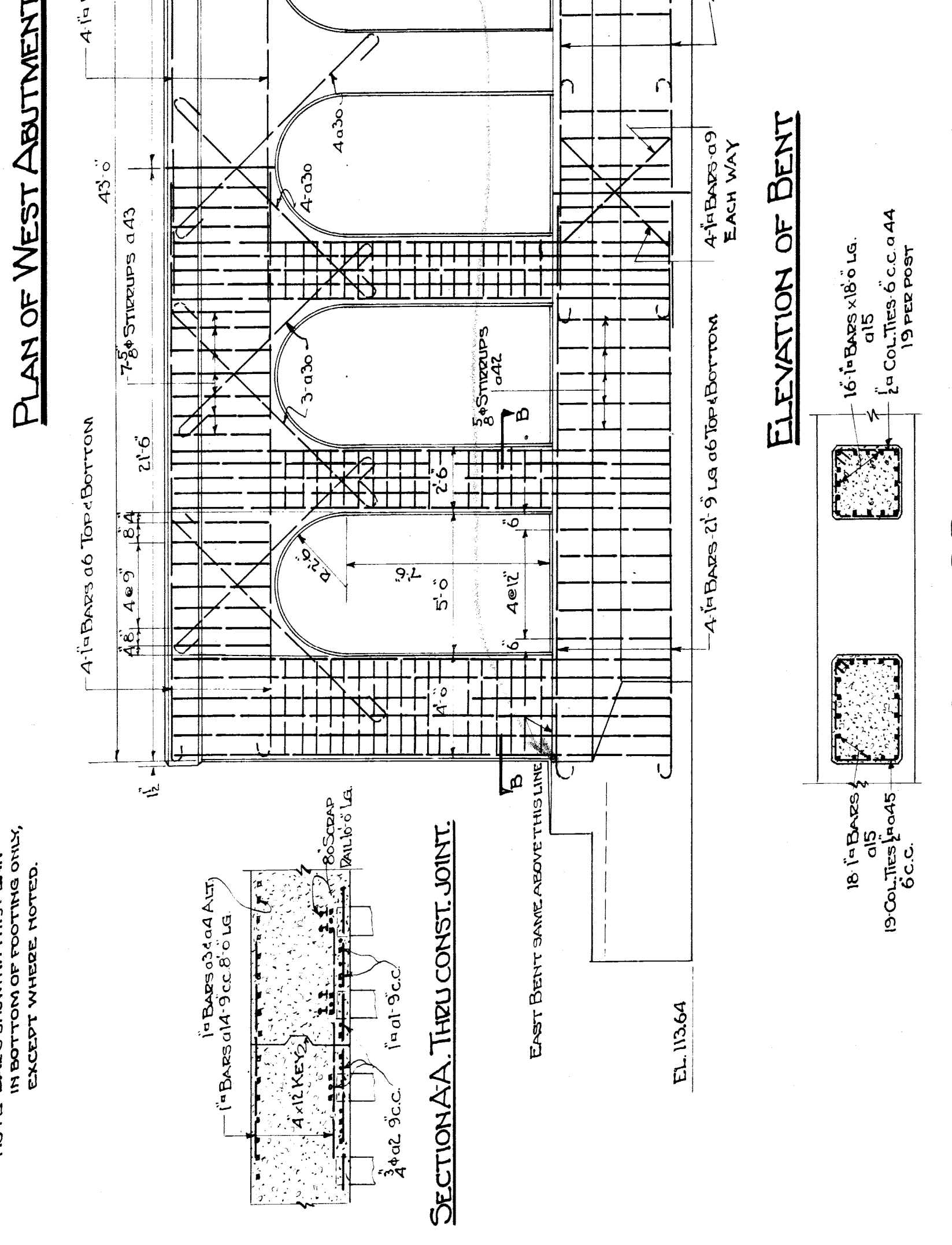
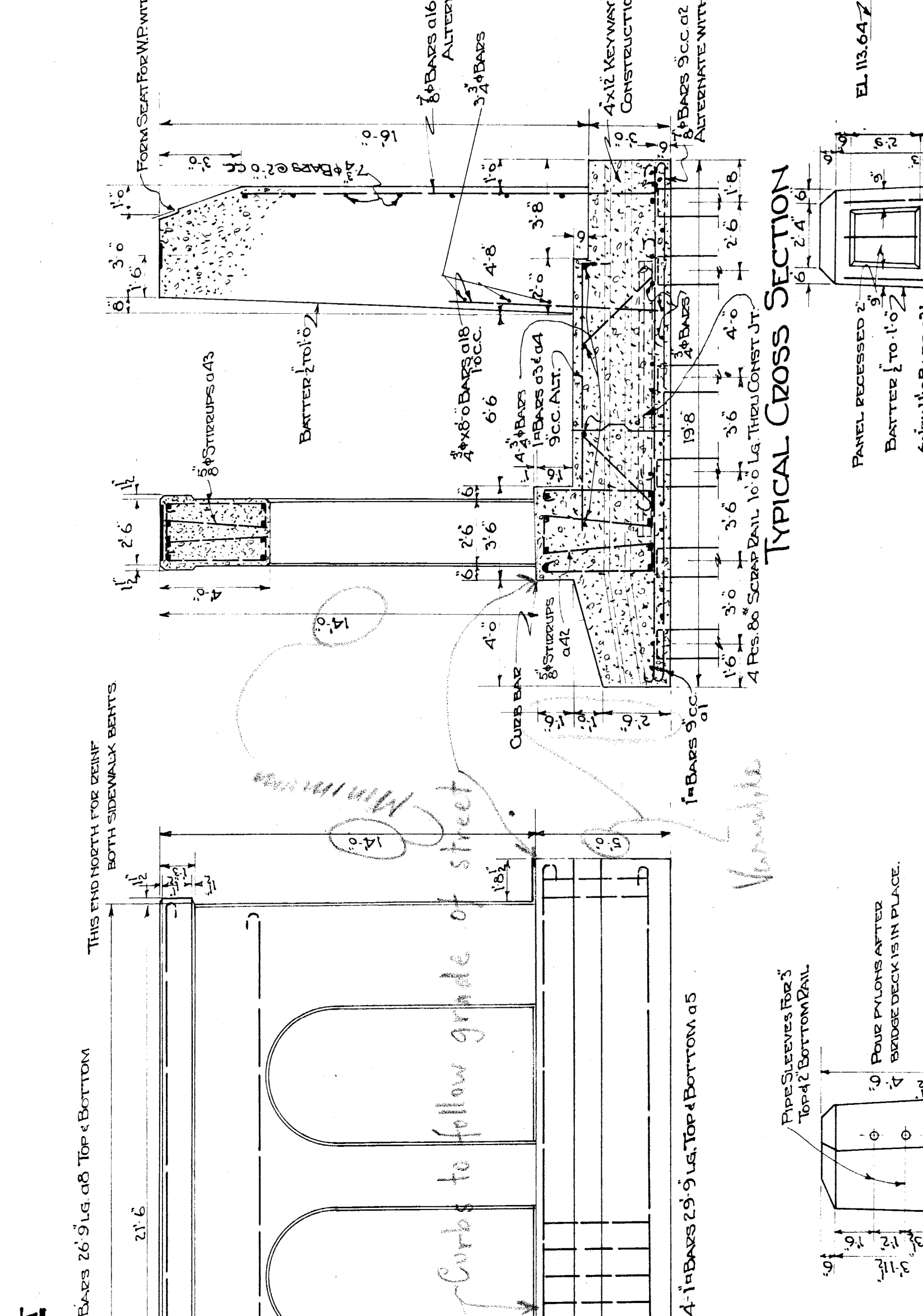
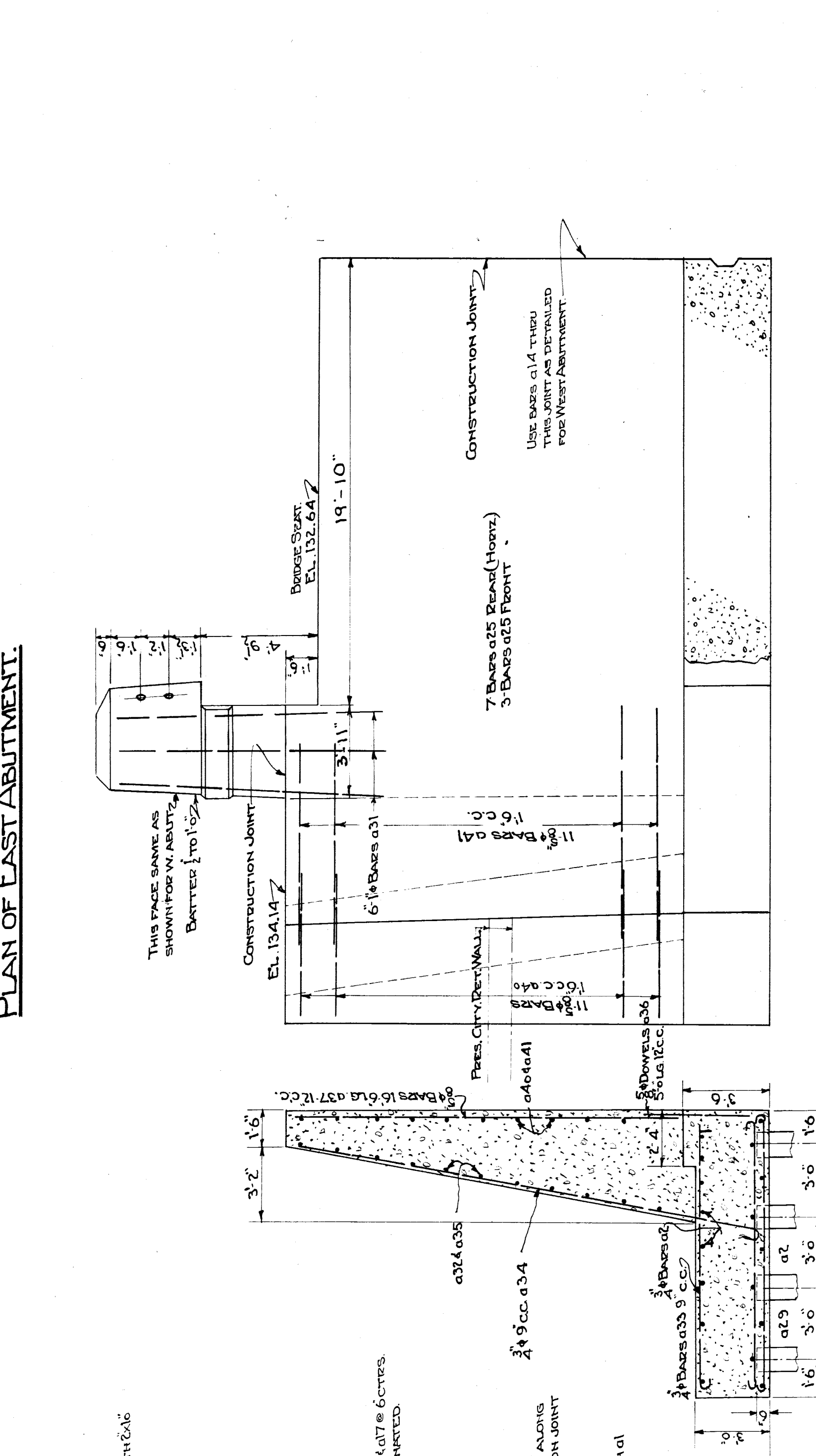
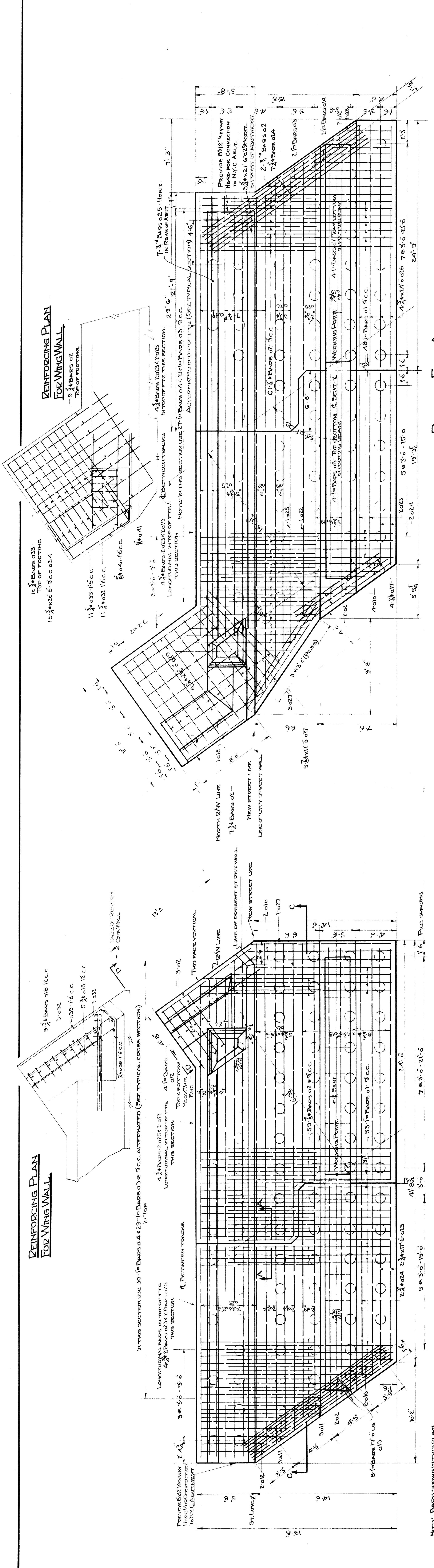
WALL SECTIONS
SCALE 1/2" = 1'-0"



DEAD ELEVATION OF D/W WALL
SCALE 1/2" = 1'-0"

GRAND TRUNK WESTERN D.R.
GENERAL PLAN & SECTIONS
23RD ST. GRADE SEPARATION
WEST DETROIT - MICHIGAN
SCALE AS NOTED
D.E.M.J.B. OFFICE OF CHIEF ENGINEER
TERRACE DETROIT, MICHIGAN
CL L.S. JAN - 1930
JOURNAL
W. 651
FILE

EXHIBIT 5163-25



GRAND TRUNK WESTERN R.R.
 ABUTMENT - DETAILS
 23RD ST. GRADE SEP N
 WEST DETROIT, MICHIGAN.

SCALE: 1" = 1'-0"

DE. M.J.B. OFFICE OF CHIEF ENGINEER
 TRAMHE DETROIT, MICHIGAN
 CH. L.S. DEC. 1930 P.E.

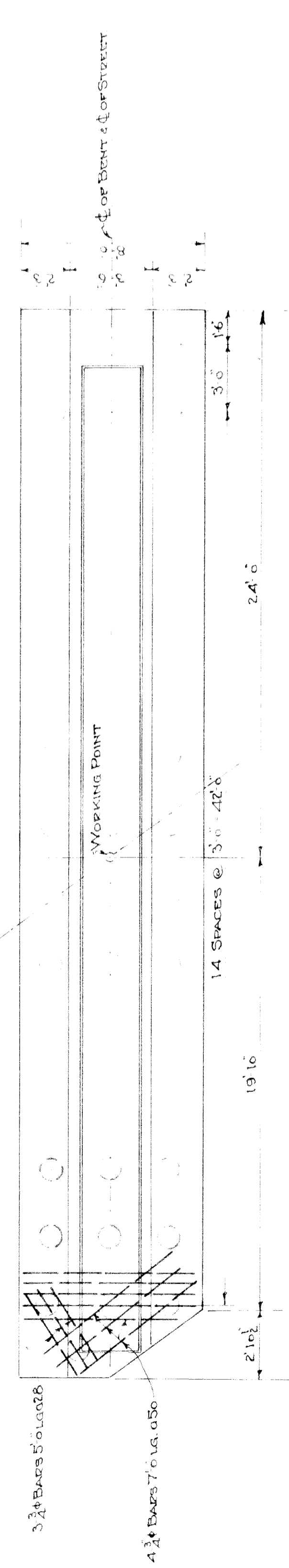
ABUTMENTS & BENTS & W DET. WALLS

BILL OF REINFORCING STEEL

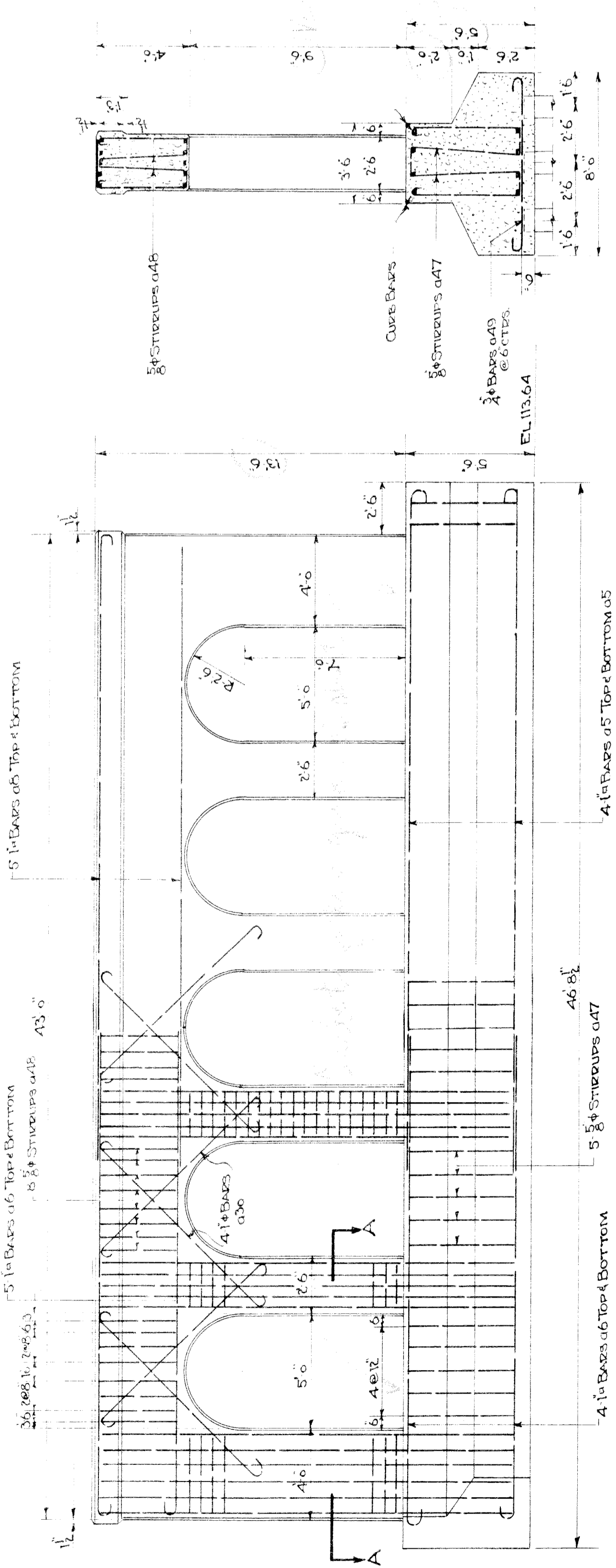
LOCATION	MK. I.D.	SIZE	LENGTH	BENDING DIAGRAM
ABUTMENT FOOTINGS	01	16	18' 6"	
	02	14	13' 6"	
	03	57	11' 0"	
	04	57	13' 6"	
BENTON DAM WEIR (Top Beams)	05	16	14' 29' 9"	
BENTON DAM WEIR (Bottom Beams)	06	02	14' 01' 9"	
BENTON DAM WEIR (Center Beams)	07	09	14' 22' 9"	
BENTON DAM WEIR (Bottom Beams)	08	05	14' 26' 9"	
FTG. BEAM BEAMS THRU CONSTRUCTION JOINT	09	16	13' 2"	
ABUTMENT FLOOR	10	8	17' 2"	
	11	6	17' 9"	
	12	11	7' 3"	
	13	8	17' 2"	
TRUSS CENTER JOINT IN FLOOR	14	170	8' 0"	
WEIR IN COLUMNS	15	300	18' 5"	
WEIR IN ABUTMENTS	16	91	16' 3"	
WEIR IN ABUTMENTS (FLOOR)	17	99	11' 3"	
WEIR IN ABUTMENTS (WALL)	18	114	8' 0"	
ABUTMENT FLOOR (WALL)	19	26	23' 0"	
	20	5	23' 0"	
	21	4	21' 6"	
	22	7	23' 6"	
	23	10	17' 6"	
	24	13	19' 0"	
	25	55	21' 0"	
	26	17	24' 6"	
	27	4	13' 0"	
	28	4	5' 0"	
	29	5	10' 0"	
DIAGONAL IN BEAMS	30	104	11' 6"	
DOWNERS TO FLOOR	31	12	11' 6"	
ABUTMENTS (WALL WALLS)	32	17	16' 9"	
FLOORING - MAIN WALL	33	8	12' 6"	
WEIR - MAIN WALL (East Abutment)	34	16	12' 6"	
WEIR - MAIN WALL (East Abutment)	35	11	8' 9"	
DOWNERS - FLOOR WALLS	36	30	5' 0"	
WEIR IN FACE OF MAIN WALLS	37	30	16' 6"	
WEIR - WEIR/ABUTMENT WALL	38	11	16' 9"	
WEIR - WEIR/ABUTMENT WALL	39	11	11' 9"	
WEIR - EAST ABUTMENT WALL	40	11	8' 6"	
WEIR - EAST ABUTMENT WALL	41	11	16' 3"	

BILL OF REINFORCING STEEL

LOCATION	MK. I.D.	SIZE	LENGTH	BENDING DIAGRAM
STRUCTURE FROM BEAMS (Start Beams)	042	06	16' 2"	
STRUCTURE TOP BEAMS (Start Beams)	043	06	17' 2"	
COLUMN TIES	044	1/8	9' 4"	
	045	1/4	12' 0"	
STRUCTURE GROUND TIES (Bottom)	047	06	22' 2"	
STRUCTURE (Top Beams)	048	08	16' 4"	
CENTRE BEAM - FLOORING	049	08	9' 6"	
CENTRE BEAM - FLOORING	050	4	7' 0"	
W/W DET. WALL - FLOORING	051	15	16' 9"	
W/W DET. WALL - NEAR SEC. A.A.	052	15	15' 9"	
W/W DET. WALL - NEAR SEC. A.A.	053	11	7' 6"	
W/W DET. WALL - FLOORING SEC. B.B.	054	16	7' 6"	
W/W DET. WALL - NEAR SEC. B.B.	055	16	12' 9"	
W/W DET. WALL - NEAR SEC. B.B.	056	9	9' 6"	



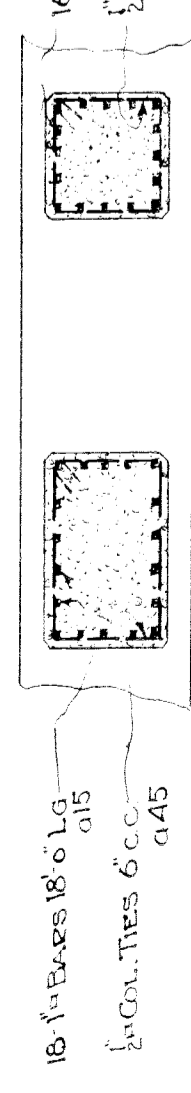
PLAN



ELEVATION

DETAILS OF CENTER BENT

SECTION



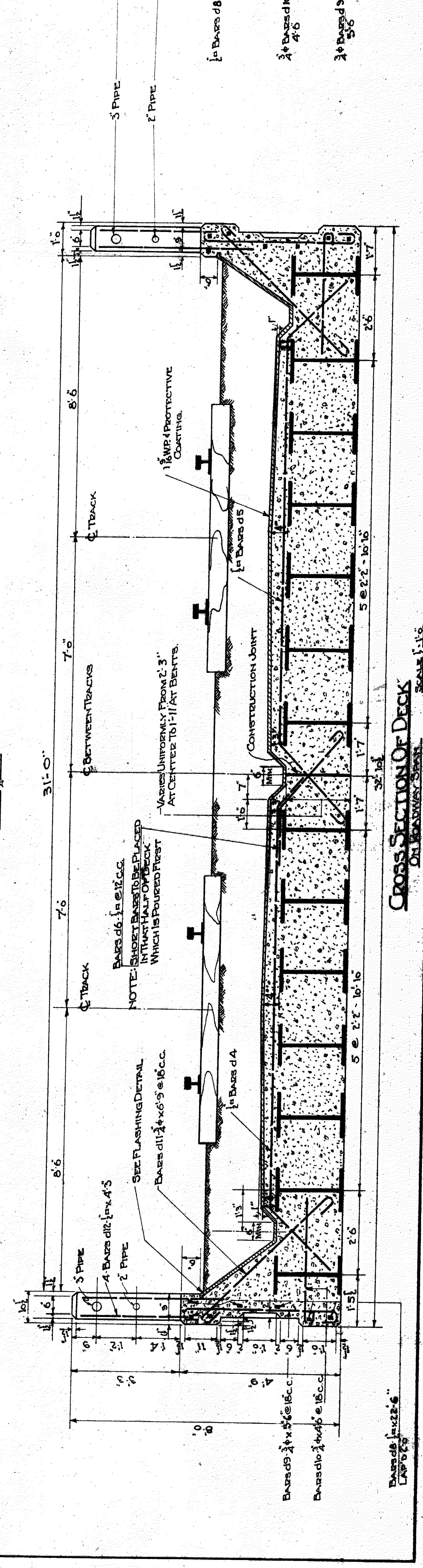
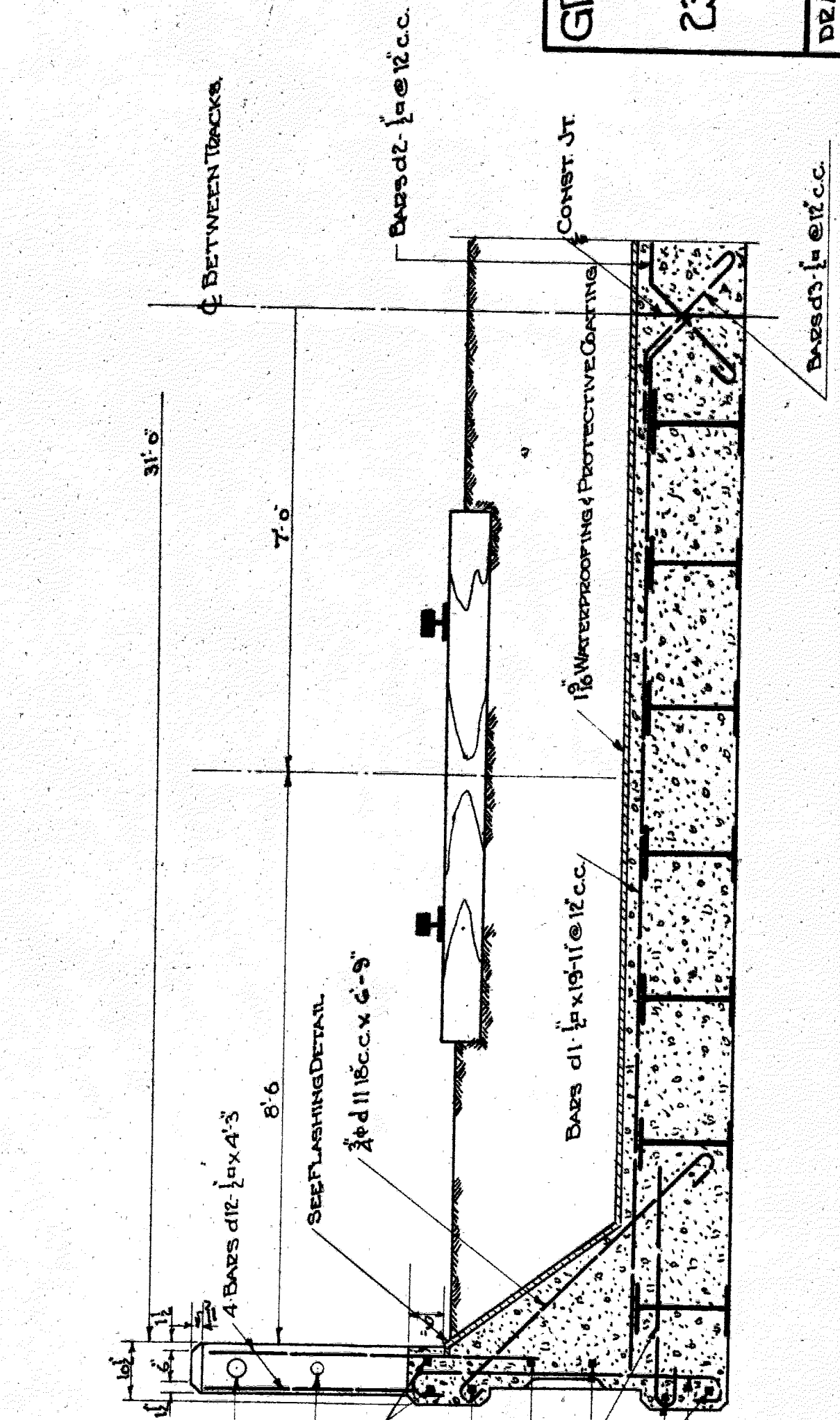
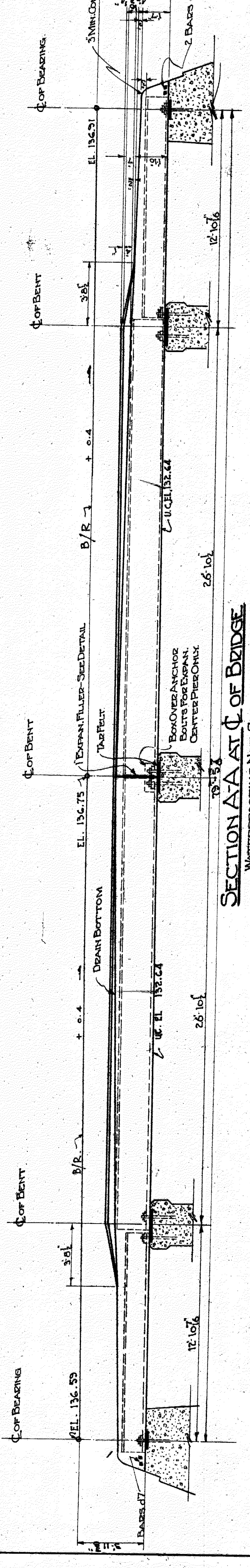
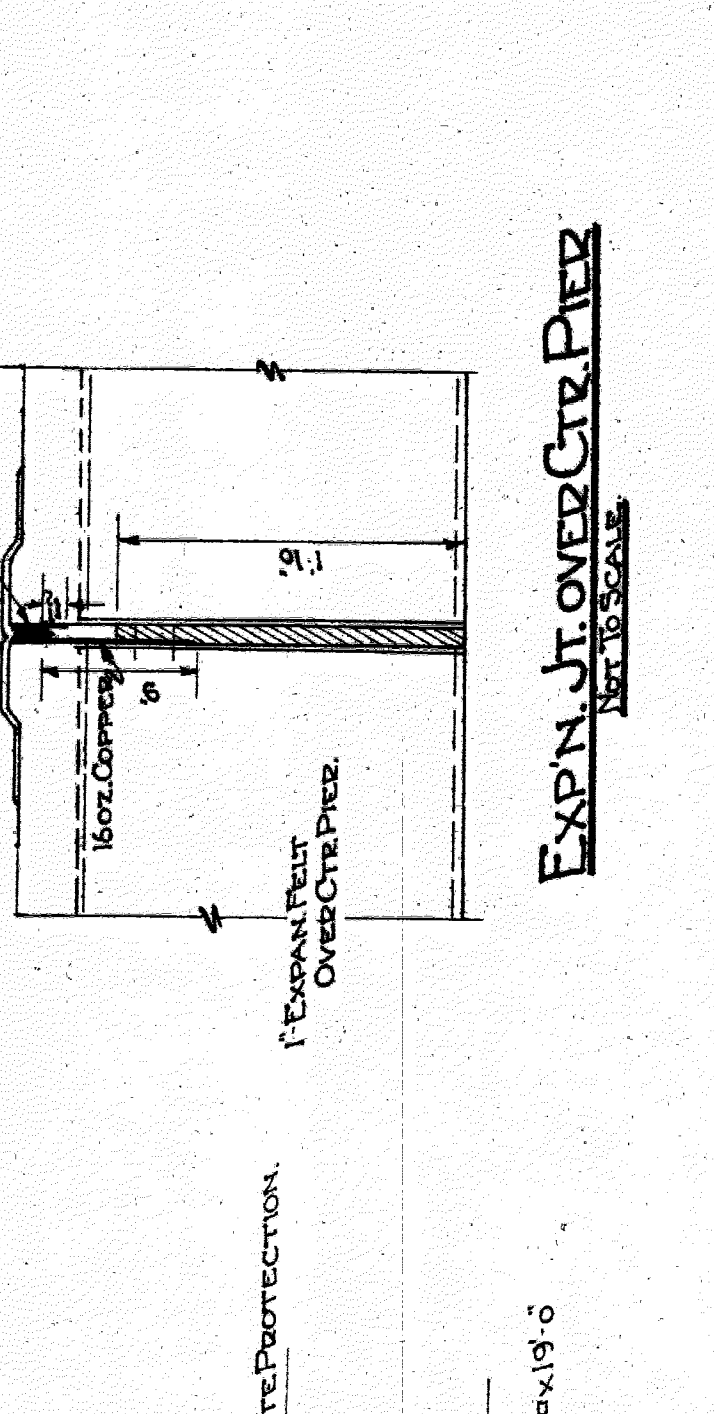
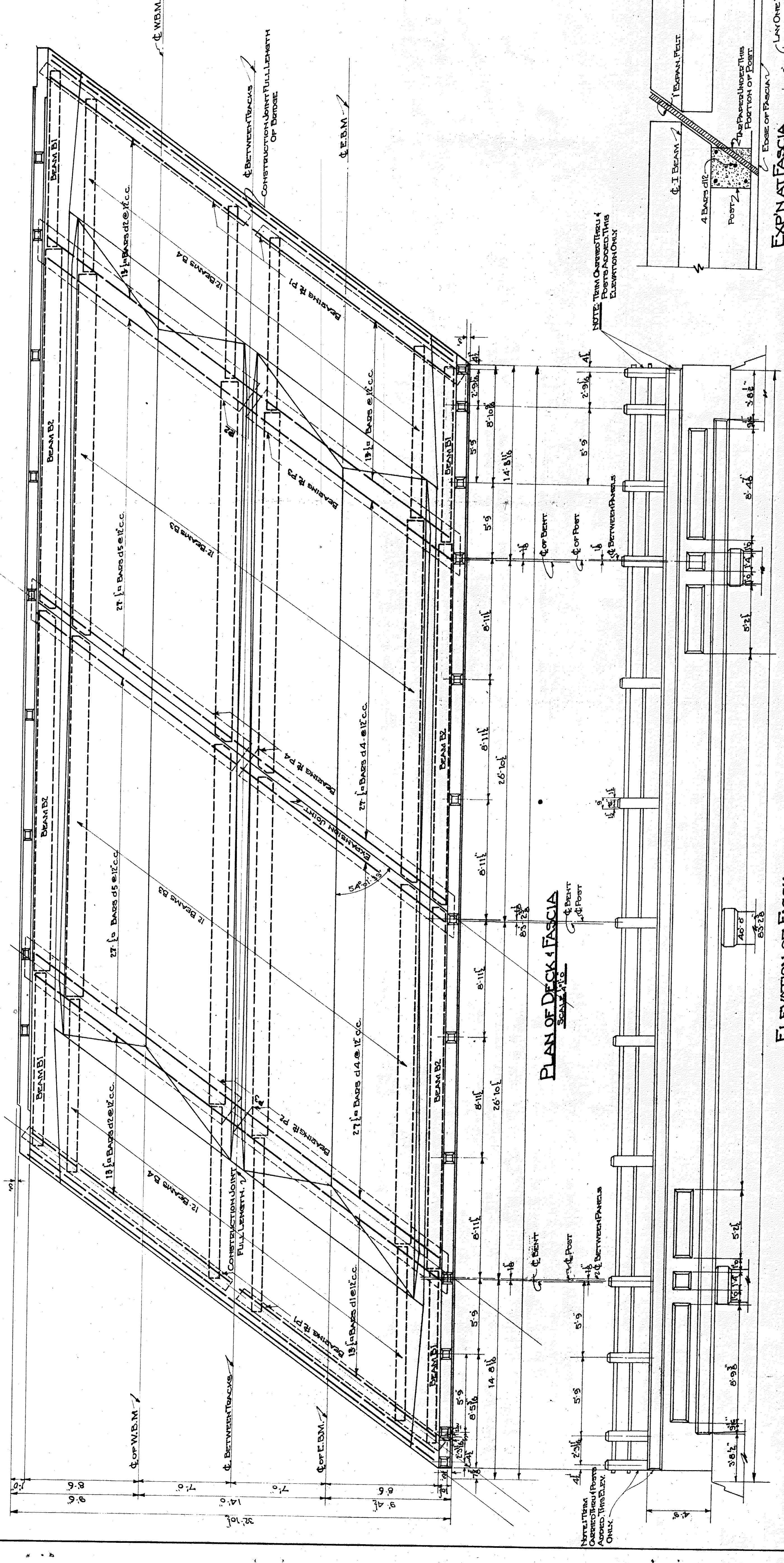
SECTION AA

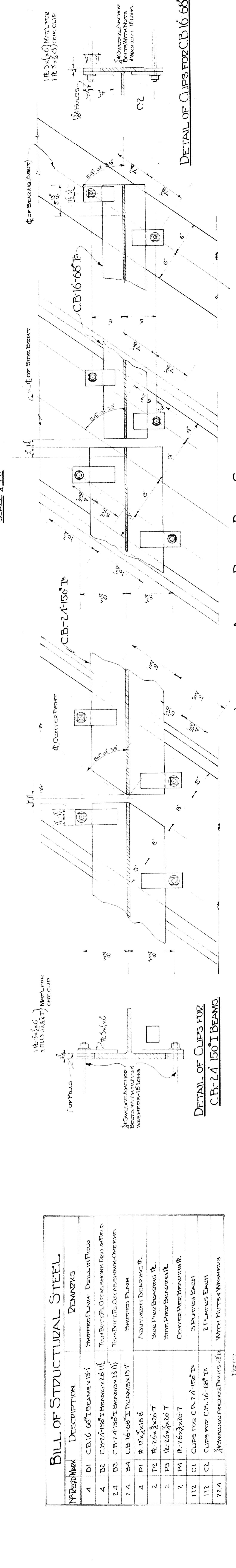
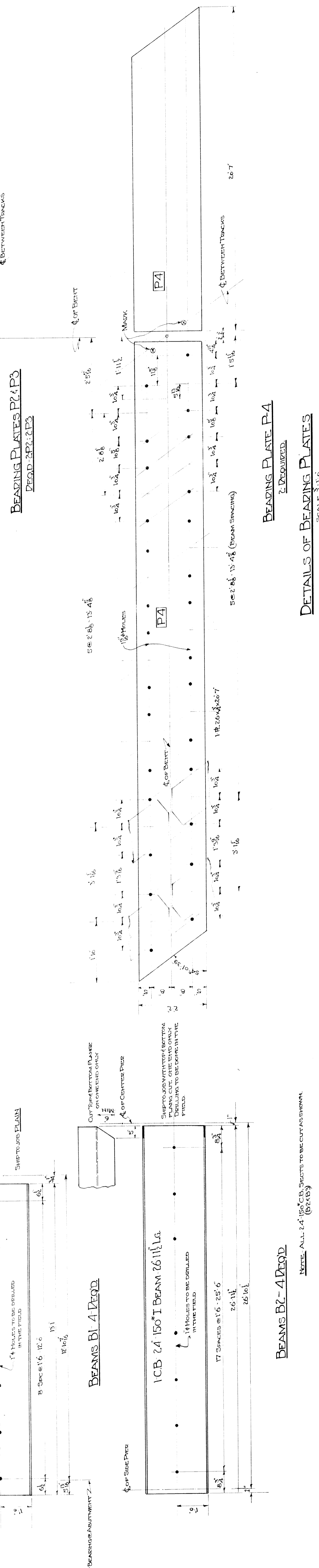
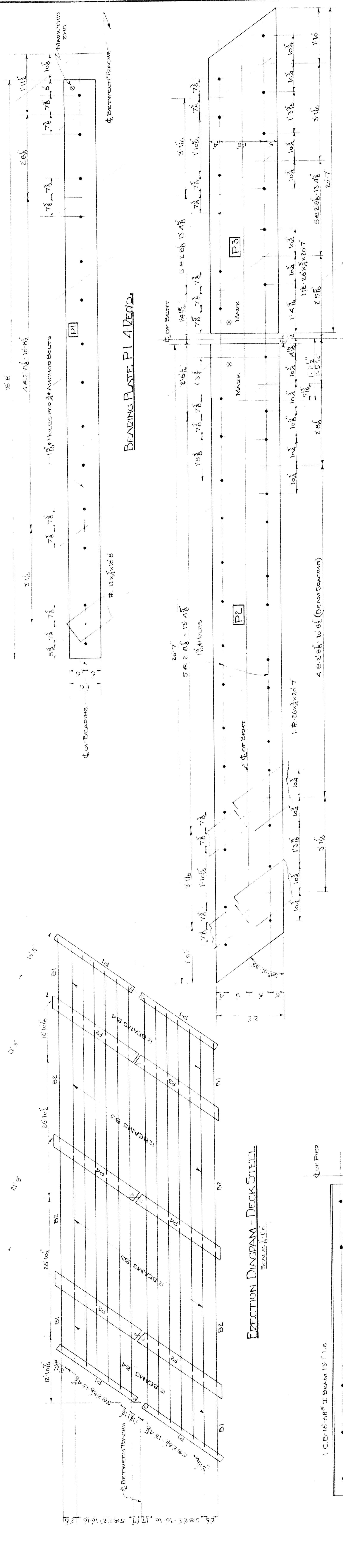
GRAND TRUNK WESTERN R.R.
 DETAILS OF CENTER BENT & DET. WALLS
 23RD ST. GRADE SEPARATION
 WEST DETROIT - MICHIGAN.

SCALE: 1/4" = 1'-0"
 OFFICE OF CHIEF ENGINEER
 DETROIT, MICHIGAN
 JOURNAL
 W. 6652
 FILE

BILL OF REINFORCING STEEL

LOCATION	MARK	NO.	SIZE	LENGTH	BENDING DIAGRAM
DECK	d1	26	-	19'-11"	
	d2	25	-	25'-6"	
	d3	24	-	4'-1"	
	d4	54	-	18'-11"	
	d5	54	-	21'-4"	
	d6	54	-	5'-3"	
	d7	6	-	19'-6"	
	d8	54	-	22'-6"	
	d9	112	-	5'-6"	
	d10	112	-	4'-6"	
	d11	112	-	6'-5"	
FASCIA	d12	88	-	4'-3"	
					STRAIGHT
POSTS					
					STRAIGHT





NO	REMARK	DESCRIPTION	REMARKS
1	B1	CB-16-68 I BEAMS 15' 1 1/4"	SHIPPED PLAIN - DETAILS IN FIELD
2	B2	CB-24-150 I BEAMS 26' 1 1/4"	TOP BUTT FOR CUT AS SHOWN ONE END
3	B3	CB-24-150 I BEAMS 26' 1 1/4"	TOP BUTT FOR CUT AS SHOWN ONE END
4	B4	CB-16-68 I BEAMS 15' 1 1/4"	SHIPPED PLAIN
5	P1	R 12x12x1/2	ADJUSTMENT BEARING PL.
6	P2	R 12x12x1/2	SIDE PLATE BEARING PL.
7	P3	R 12x12x1/2	SIDE PLATE BEARING PL.
8	P4	R 12x12x1/2	CENTERS EACH
9	C1	CLIPS FOR CB-24-150 I BEAMS	3 PLATES EACH
10	C2	CLIPS FOR CB-16-68 I BEAMS	2 PLATES EACH
11	C3	ANCHOR BOLTS 1/2" DIA	WITH NUTS & WASHERS

NOTE: ALL 24-150 I BEAM SECTIONS TO BE CUT AS SHOWN (B2 & B3)

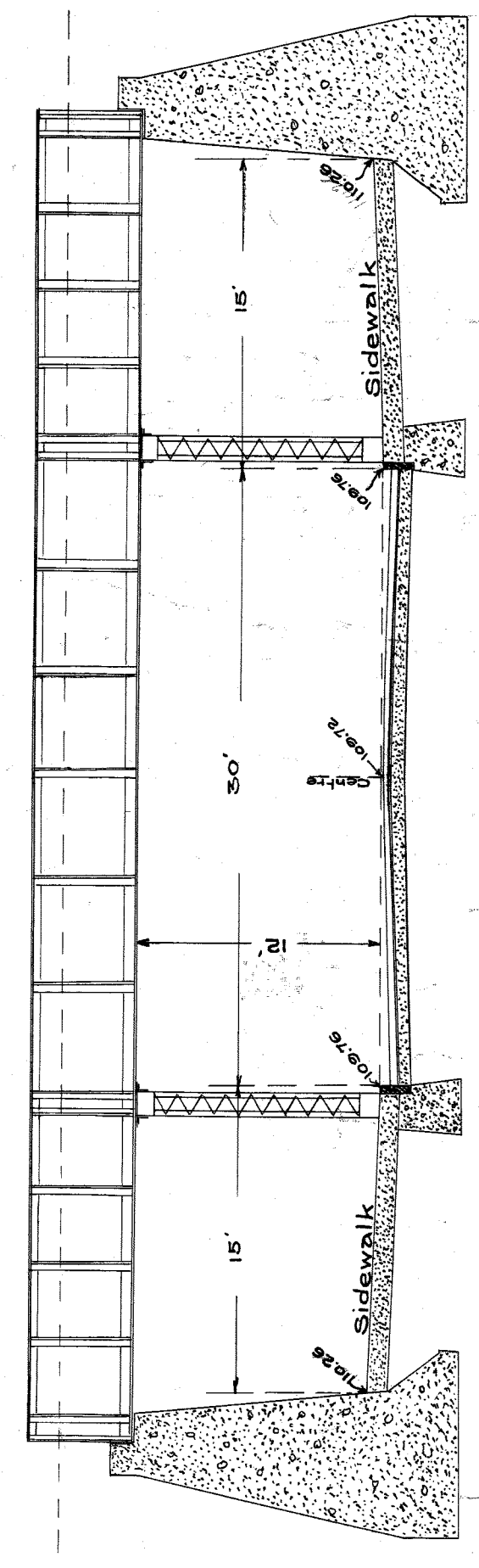
GRAND TRUNK WESTERN R.R.
STRUCTURAL STEEL DETAILS
23RD ST. GRADE SEPARATION
WEST DETROIT-MICHIGAN.
SCALES AS SHOWN.

PREPARED BY: OFFICE OF CIVIL ENGINEER
DRAWN BY: TRACY T. MICHIGAN
CHECKED BY: CHAS. L. G.
DATE: JAN. 1931

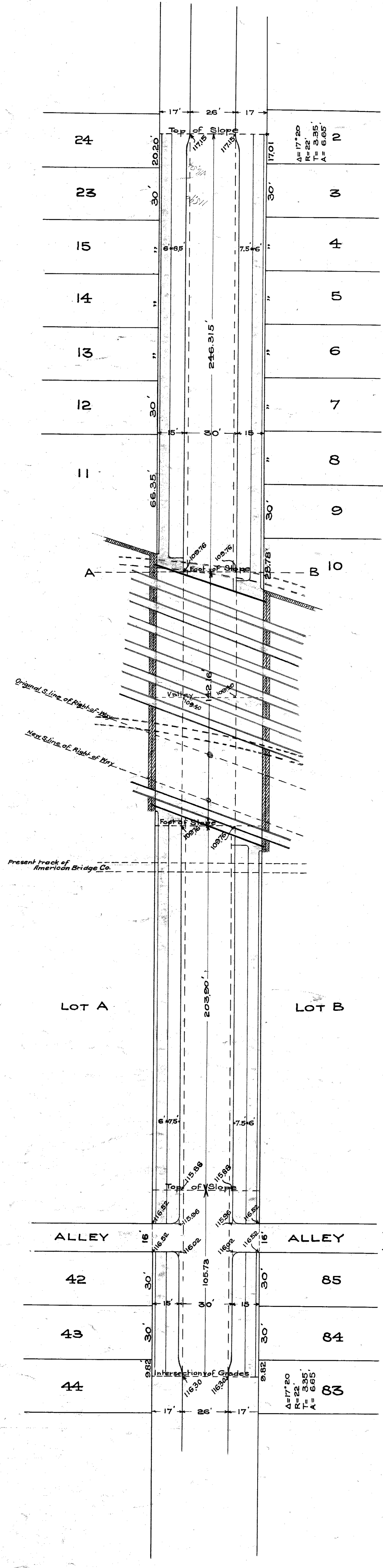
Approved:
W. Bill Connelley
 City Engineer
 Chief Engineer, M.C.R.R.

CH

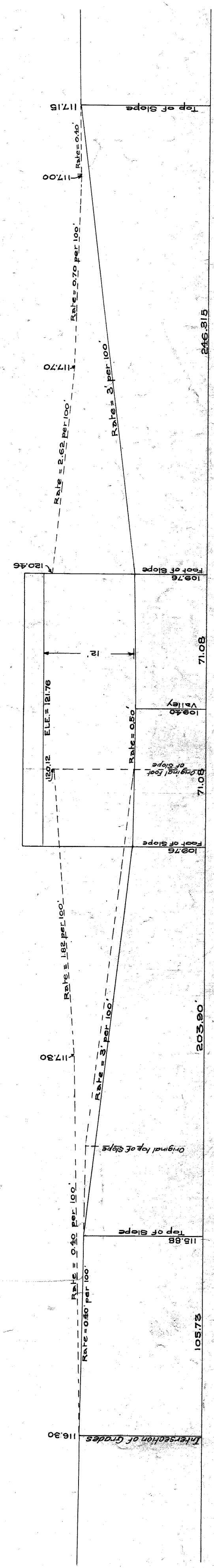
PROPOSED SUBWAY IN
 TWENTY-THIRD STREET
 UNDER M. C. R. R.



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



PLAN
 Scale, one inch = 40 Feet.



LONGITUDINAL SECTION
 Hor. Scale, one inch = 40 Feet
 Ver. " " " 10 "

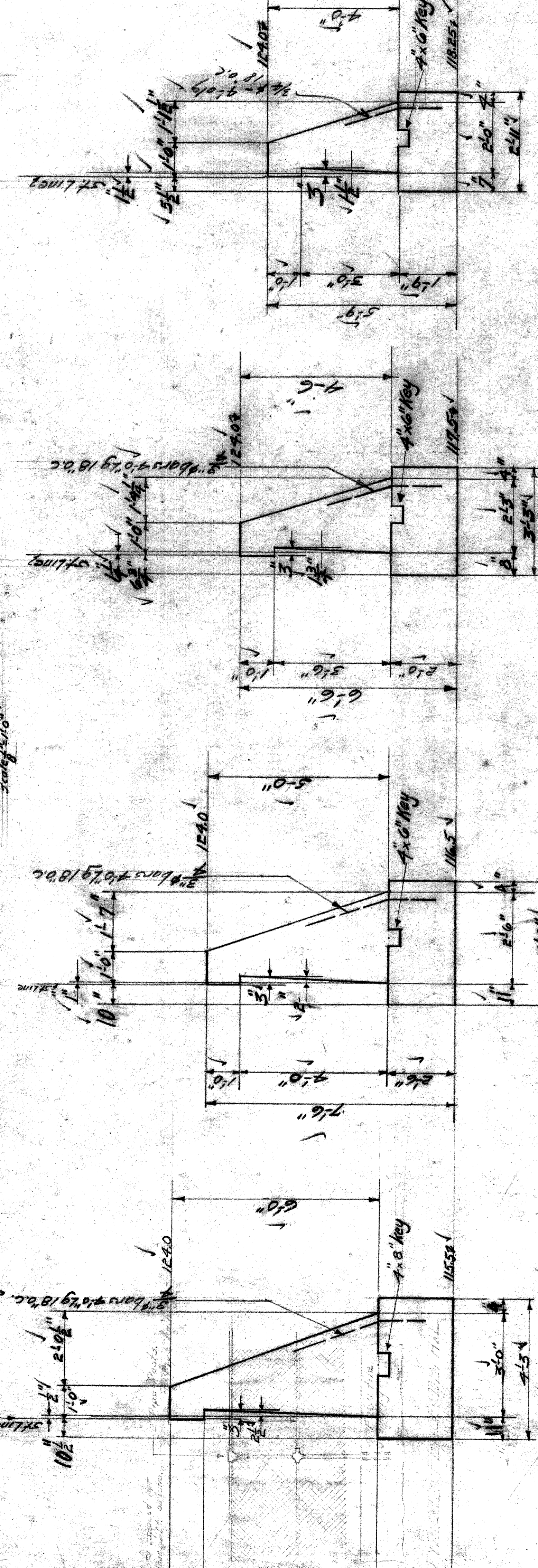
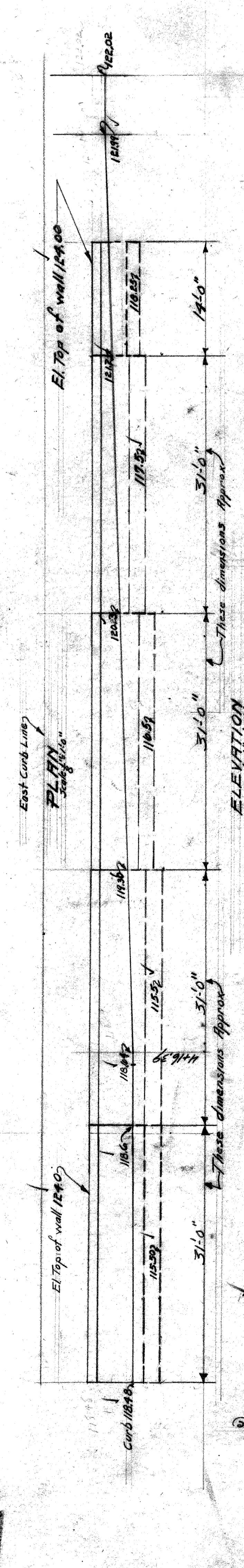
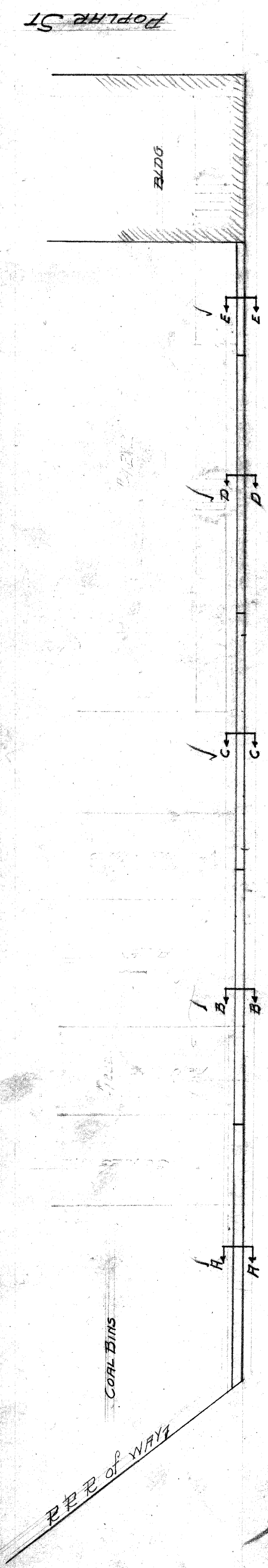
23rd. ST.

City Engineer's Office.

File XU 21-17

CITY ENGINEER'S OFFICE
 GRADE SEPARATION & BRIDGES
 Class A
 Drawing 2
 42-56

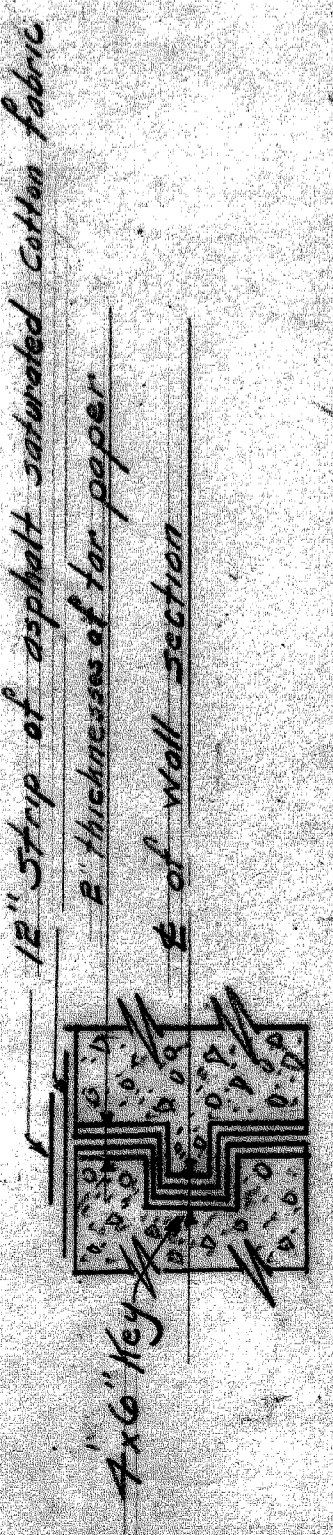
Drawn by J.W. Reid - Feb. 17, 1908.



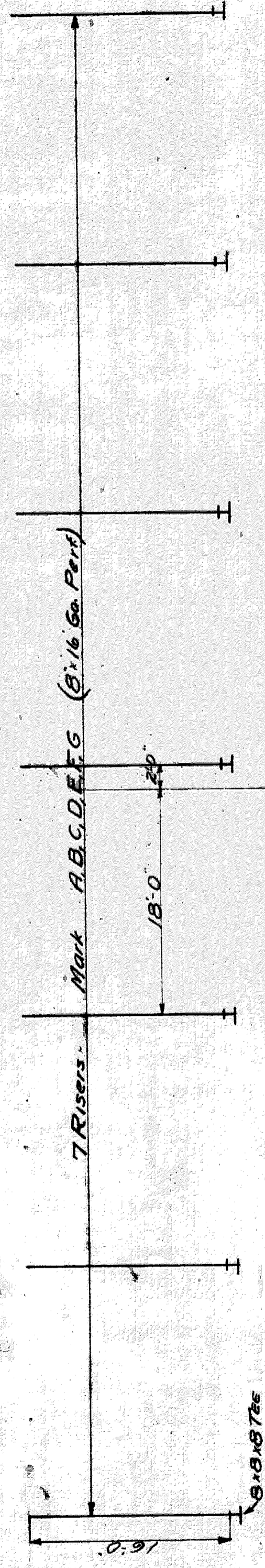
NOTES
 All exposed corners to be chamfered to 1"
 All concrete mix 1:2 1/2:4
 Back of walls to receive two brush coats of asphalt waterproofing
 All drains to be 4" crack drains covered with tar paper
 Connect all drains to sewer

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
DIVISION OF GRADE SEPARATION & BRIDGES
TWENTY-THIRD STREET WALL
SOUTH OF RAILROAD EAST SIDE

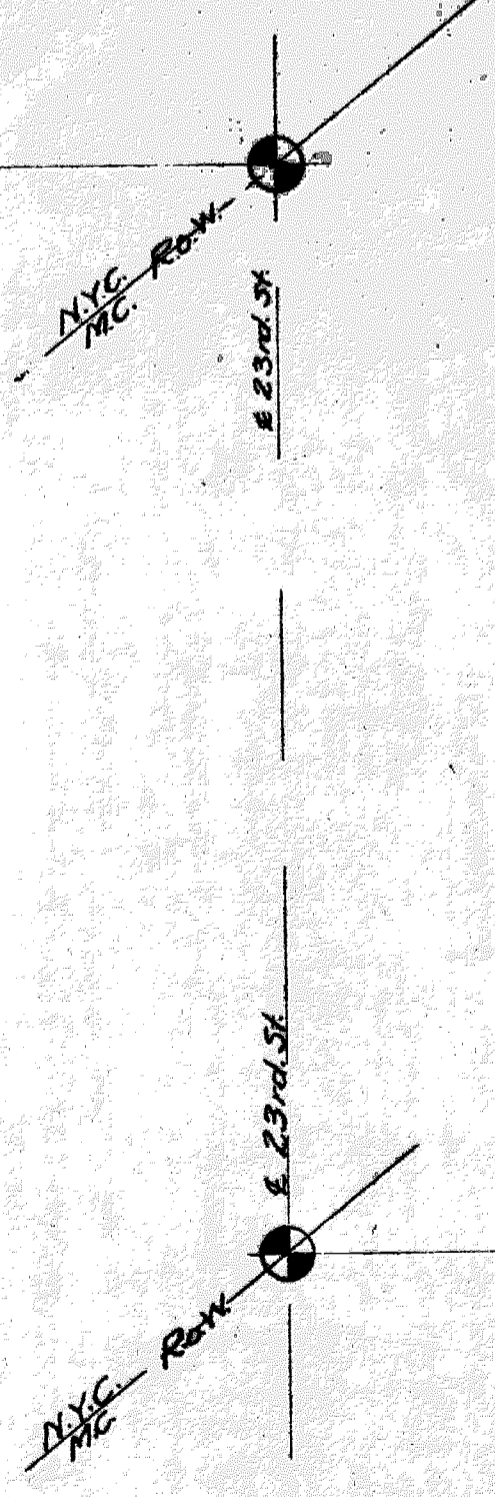
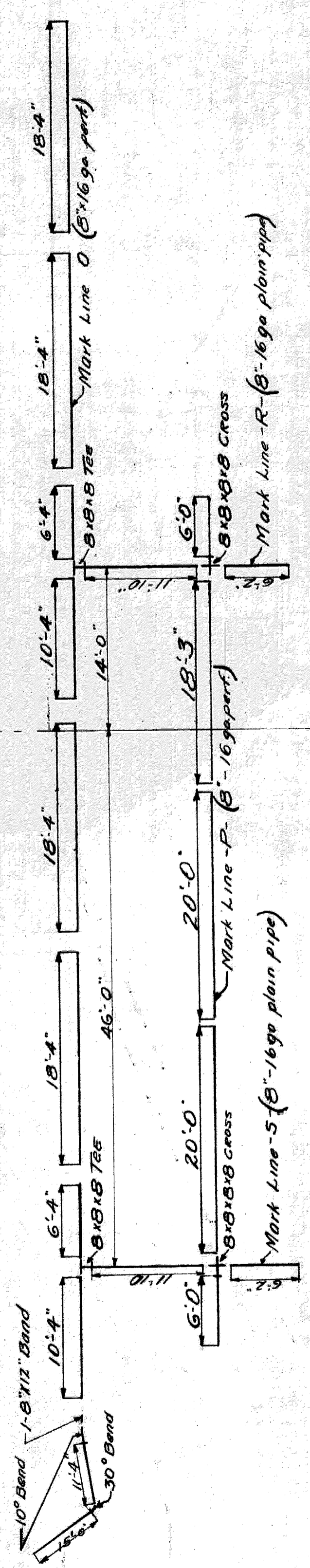
Scale as indicated
 Drawn C.W.R.
 Checked by R.L. 10-1-25
 House Number _____
 Approver _____
 Owner _____



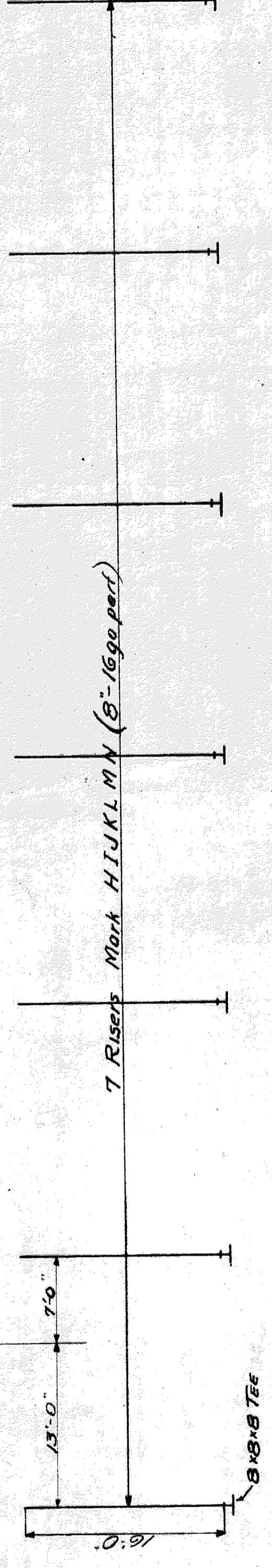
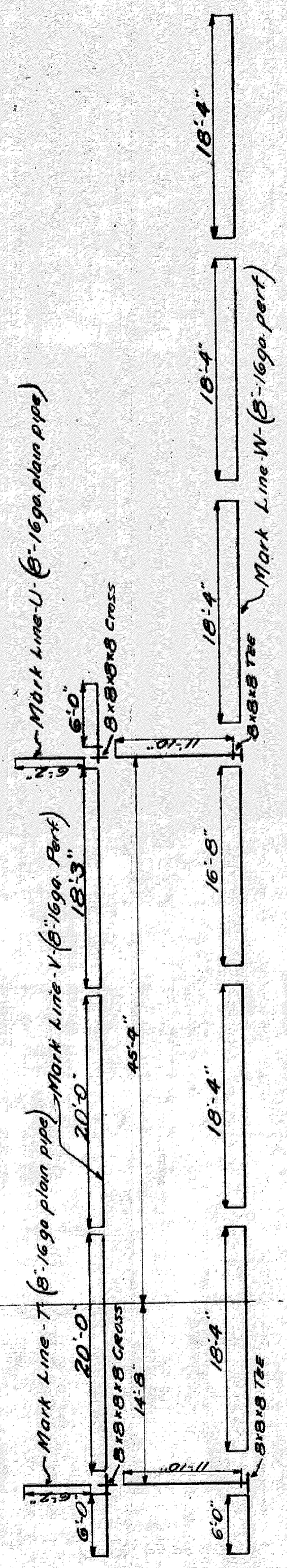
TYPICAL SECTION FOR VERTICAL KEYS AT EXPANSION JOINTS



WEST ABUTMENT



EAST ABUTMENT



- Line O 1 Reqd. 8" 16 ga. pert
 - P " " " "
 - V " " " "
 - W " " " "
 - R " " " "
 - S " " " "
 - T " " " "
 - U " " " "
- Risers ABCDEFGHIJKLMN: 14 Reqd. 8" 16 ga. pert
 Fittings for above:
 1-30° Bend
 1-10° Bend
 18- 8" 8x8 Tees
 4- 8" 8x8 Crosses
 22 End Caps 8"
 54 8" Reg Bonds
 1 8" 1/2 Bend

Note: Fittings to be riveted to pipe where no open space is shown.

M.C.R.R. - BAY CITY DIV.
BRIDGE 330 - TWENTY THIRD ST.
DRAIN PIPES

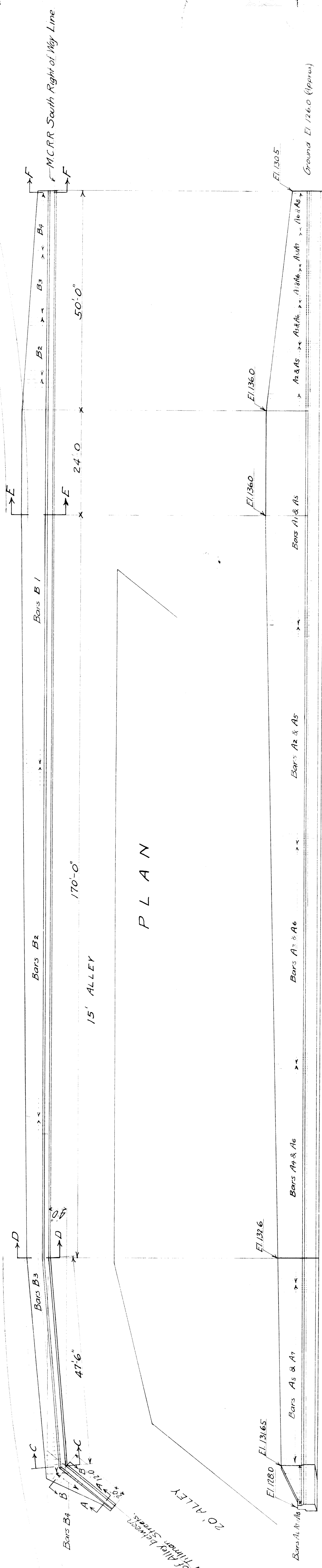
SCALE 1" = 1 Foot
 DRAWN BY C.M.C. 6-23-31
 CHECKED BY
 TRACED BY C.M.C. 6-24-31

BRIDGE ENGINEER SHEET D1871

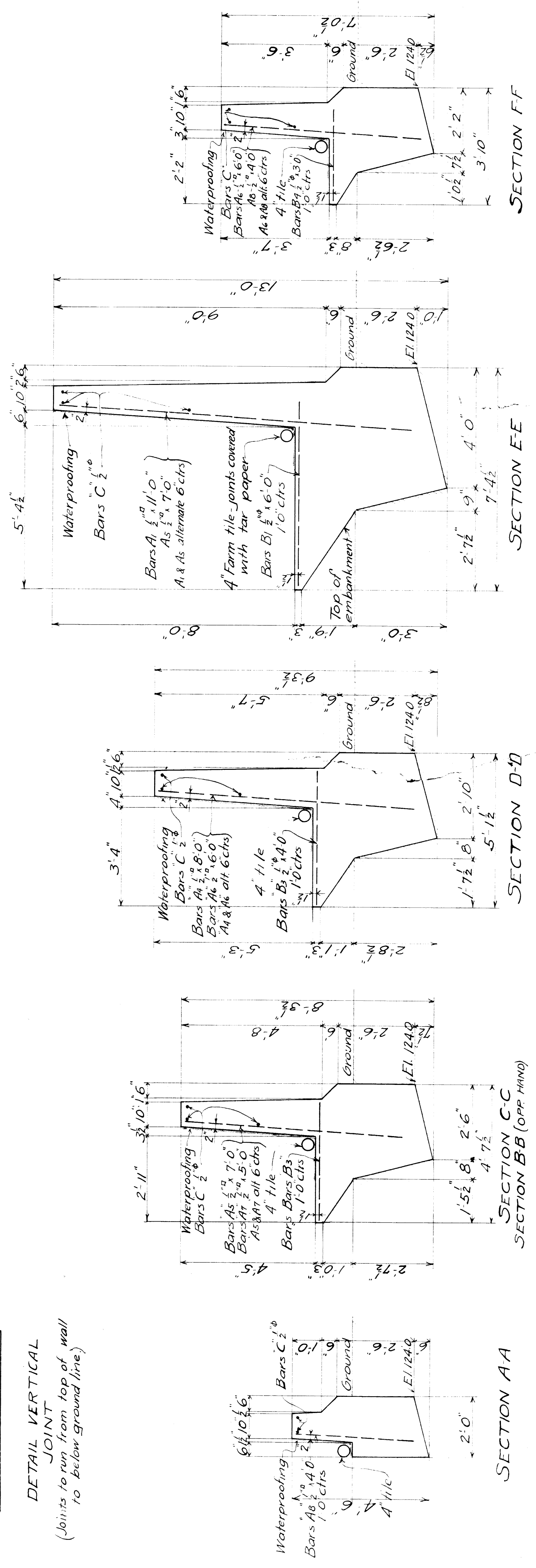
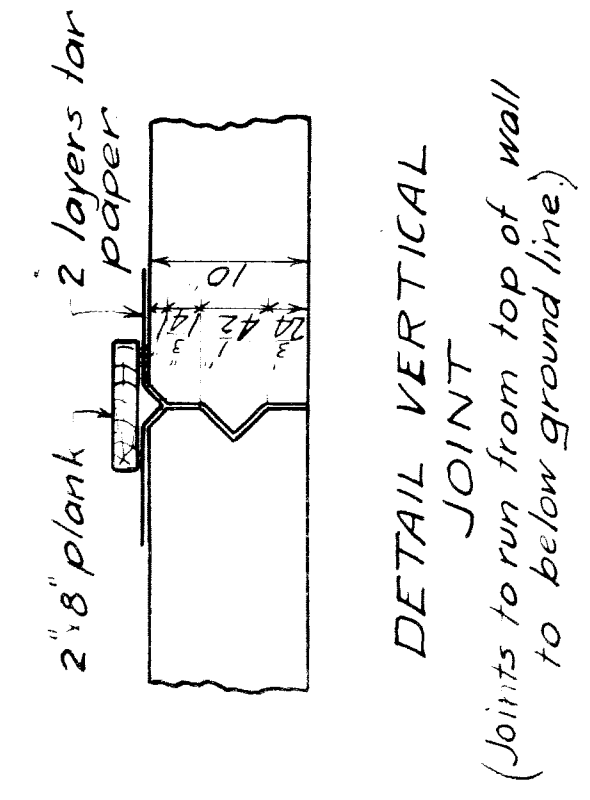
7-3-31

M.C.R.R. & N.Y.C.R.R. Leased Right of Way Line
 M.C.R.R. North Bound Main Track

M.C.R.R. Switching Track



ELEVATION



BILL OF REINFORCING BARS

No	Mark	Size	Length	Location
50	A1	1/2"	11'-0"	Vertical in wall
60	A2	"	10'-0"	"
60	A3	"	9'-0"	"
60	A4	"	8'-0"	"
170	A5	"	7'-0"	"
135	A6	"	6'-0"	"
60	A7	"	5'-0"	"
20	A8	1/2"	6'-0"	Trans. in footing
95	B1	"	5'-0"	"
20	B4	"	3'-0"	"
33	C	"	24'-0"	Long in wall
2	C2	"	15'-0"	"

NOTES
 Material and workmanship to conform to M. C. R. R. General Specifications.
 Concrete above ground to be composed of 1 part cement, 2 parts sand and 4 parts pebbles; below ground 1 part cement, 3 parts sand and 6 parts pebbles. Above ground the content of water shall not exceed 10 gal. per sack of cement. Corners to be beveled 3/4".
 Reinforcing bars to be wired together at intersections. At splices they shall lap 24 diameters and be securely wired together.
 Waterproofing: Back of wall to be painted / coat of primer and 1 coat of an acceptable asphaltic paint. Provide vertical joints about every 40 feet.

RETAINING WALL
 FOR
SPECK-HOPF & GAIEFSKY
 E. M. WALNER,
 REGISTERED CIVIL ENGR.
 SCALE 3/8" = 1'-0"
 9-25-1922
 File No. 21-20