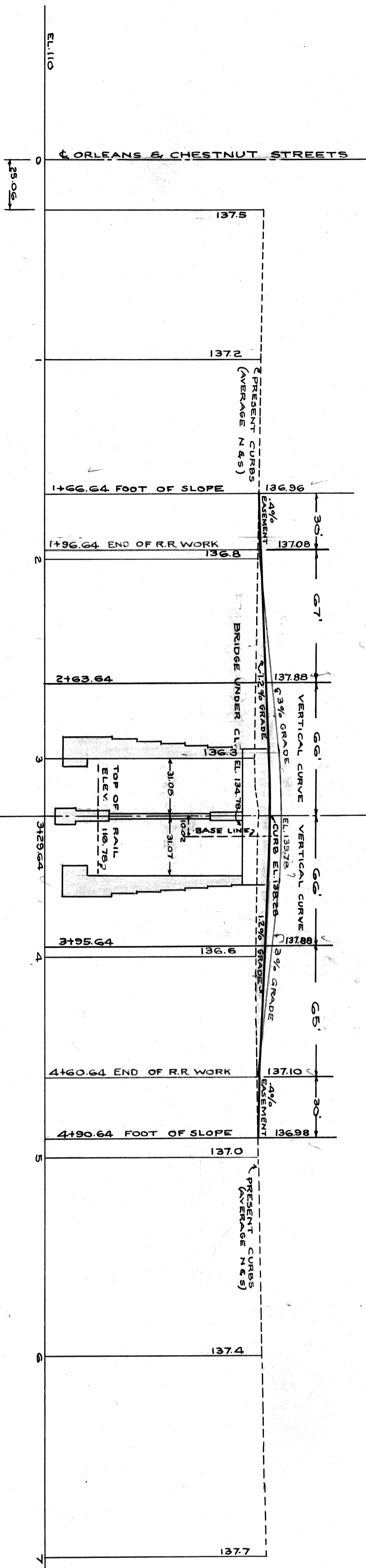
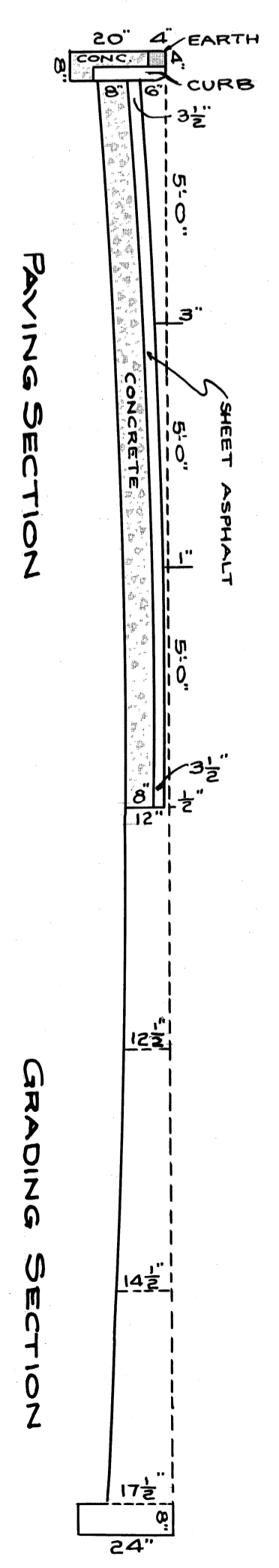


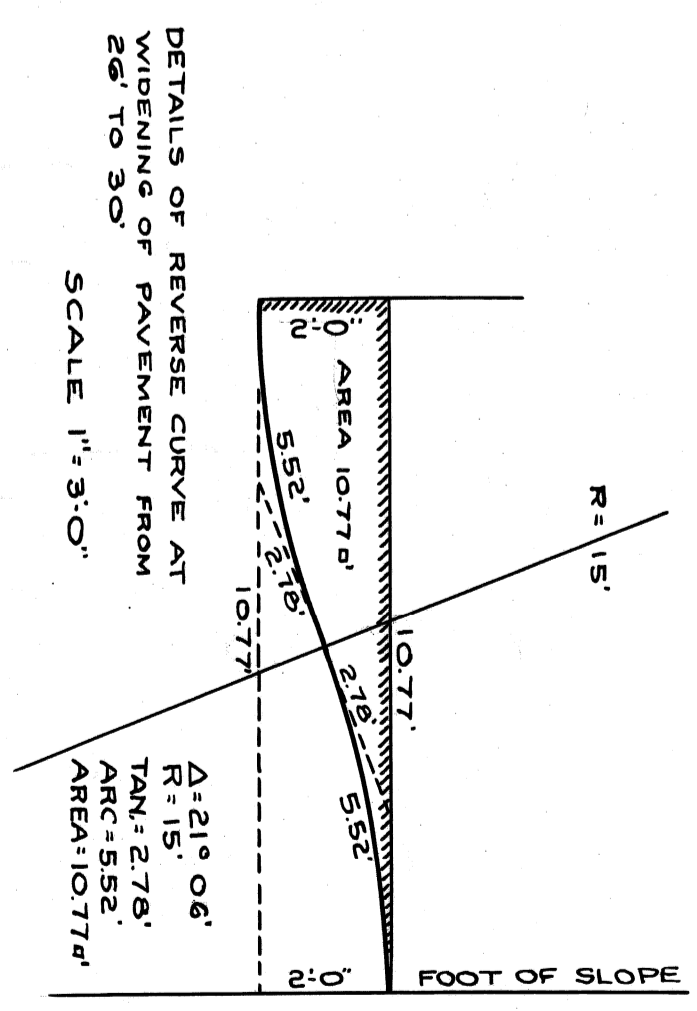
PLAN
SCALE: 1"=40'



PROFILE
SCALE - HORIZONTAL 1"=40'
SCALE - VERTICAL 1"=10'



PAVING SECTION
GRADING SECTION
SHEET ASPHALT 30' WD.
WITH 8" FOUNDATION

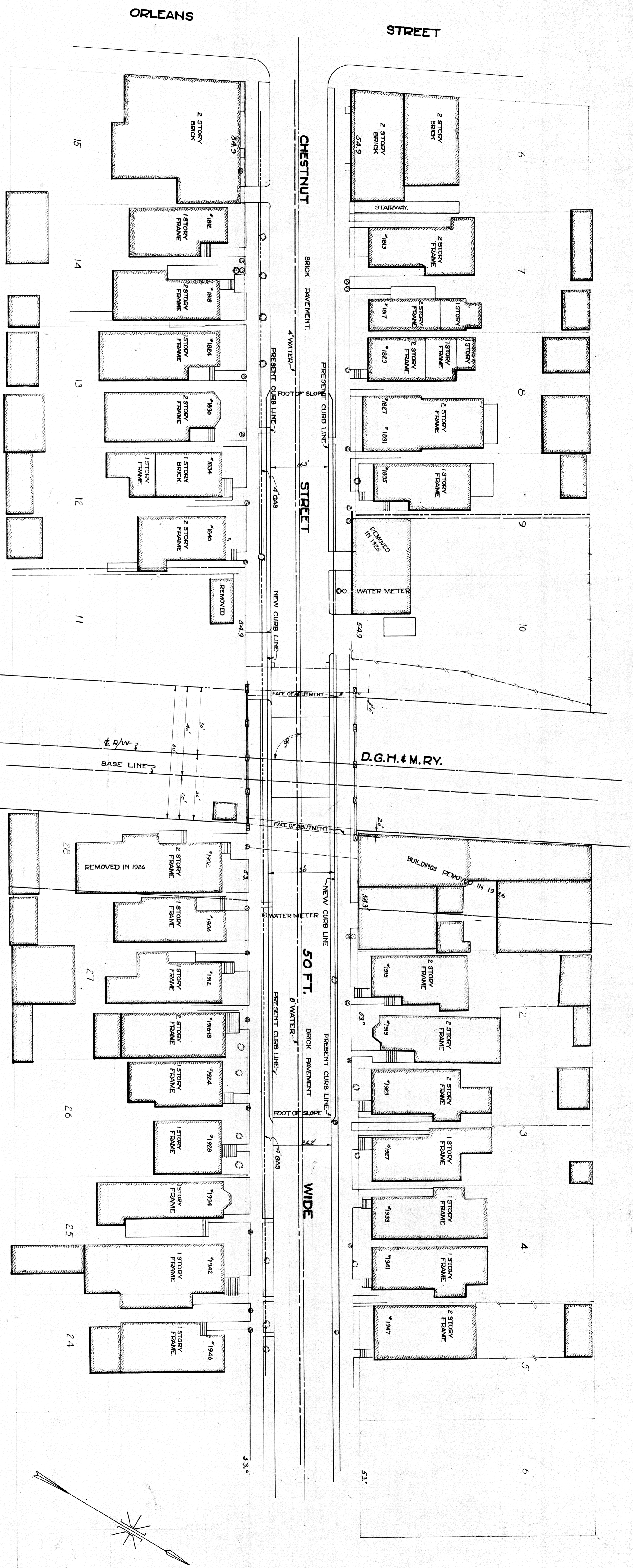


DETAILS OF REVERSE CURVE AT
INTERSECTION OF PAVEMENT FROM
20' TO 50'
SCALE 1"=30'0"

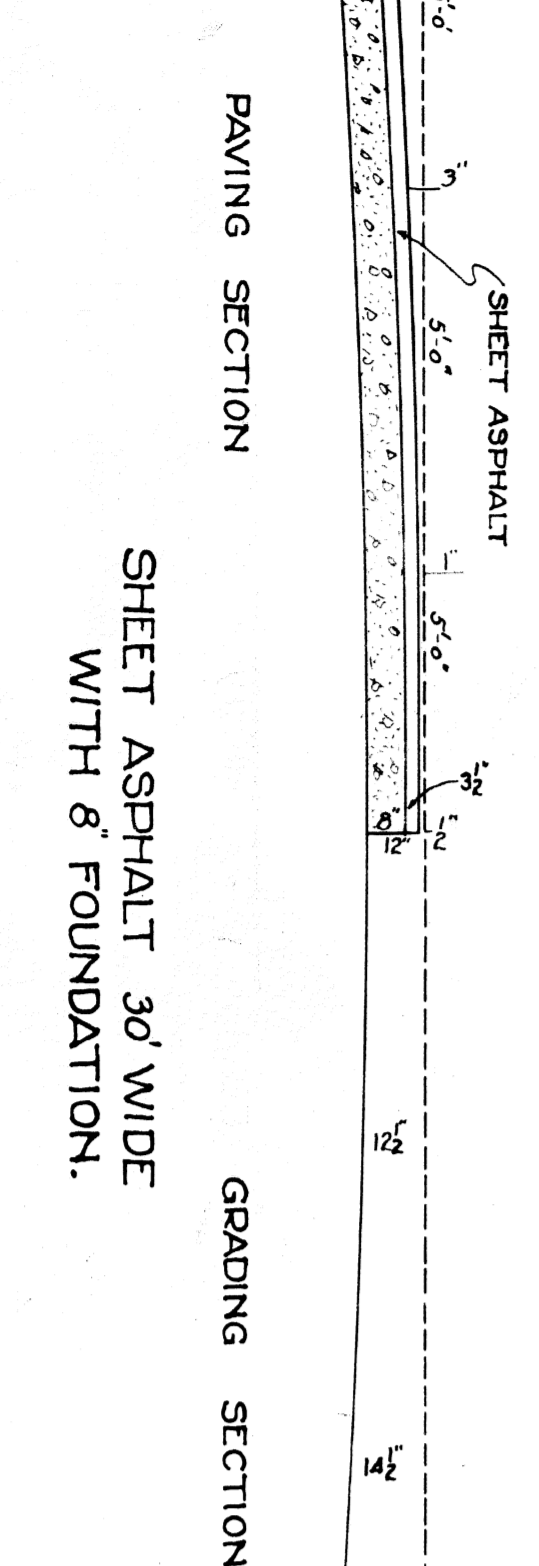
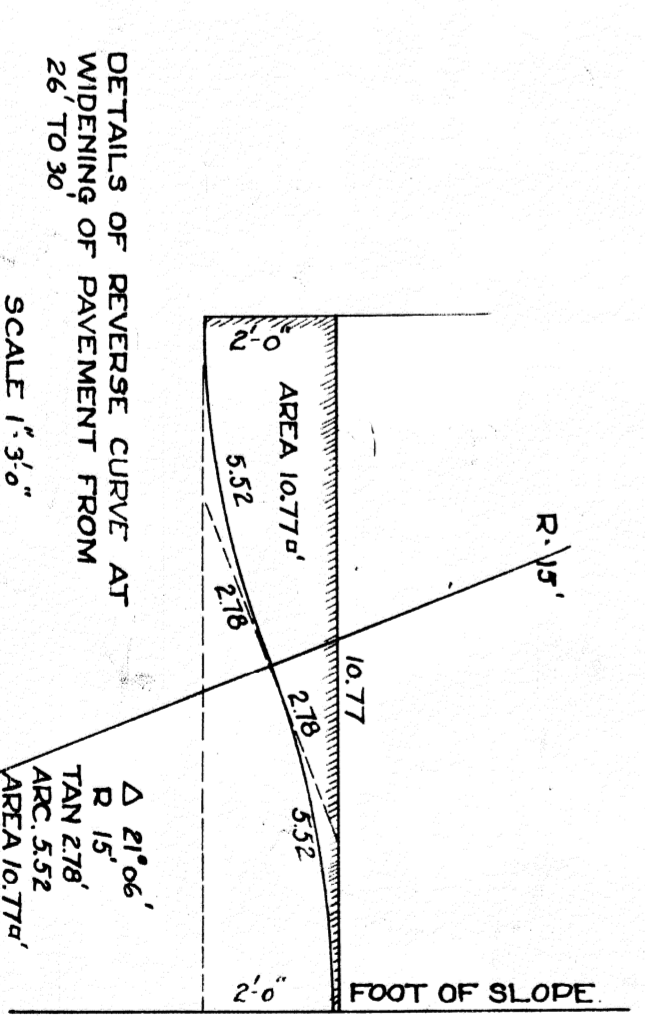
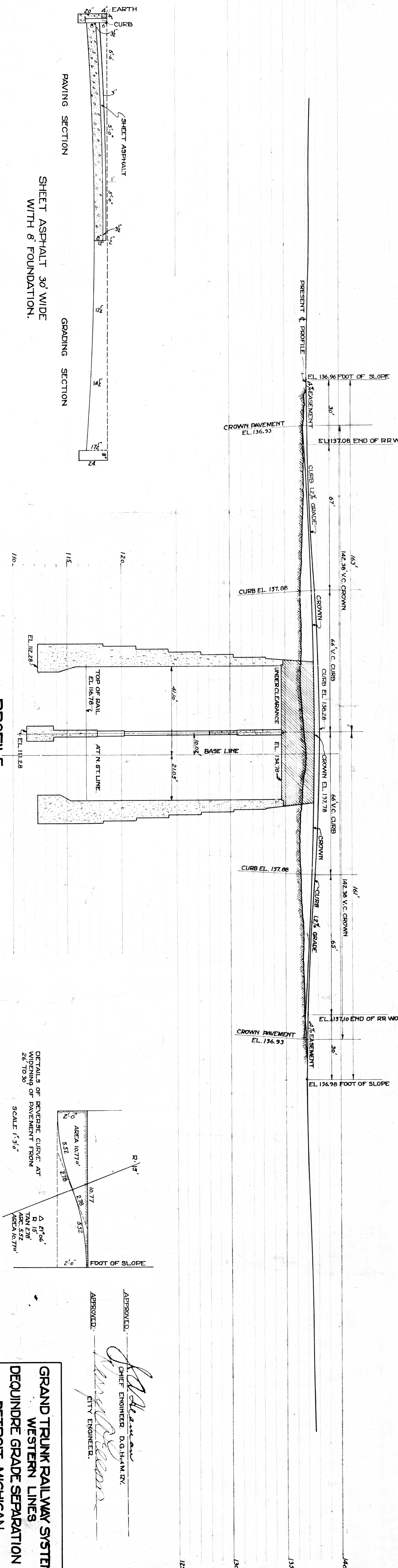
APPROVED: *[Signature]*
CHIEF ENGINEER - C.T. RY. SYSTEM - WESTERN LINES

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
DEPARTMENT OF GRADE SEPARATION AND BRIDGES
DEQUINDRE ST. GRADE SEPARATION
CHESTNUT ST.

MADE BY JTK
CHECKED BY *[Signature]*
PLAN - 1"=40'
VERT. - 1"=10'
Scales
JUNE-1929
Books 331 & 332



GENERAL PLAN
SCALE 1"=60'



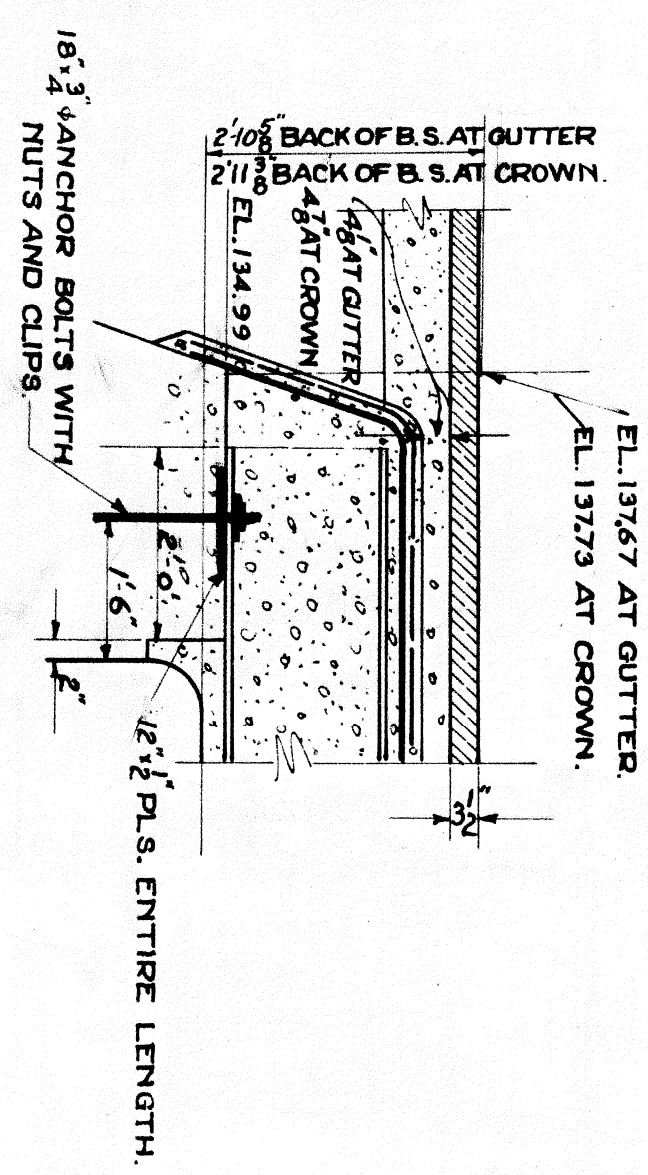
PROFILE
HORIZ. 1"=60'
VERT. 1"=4'

APPROVED: *[Signature]*
CHIEF ENGINEER, D.G.H. & M. RY.
CITY ENGINEER.

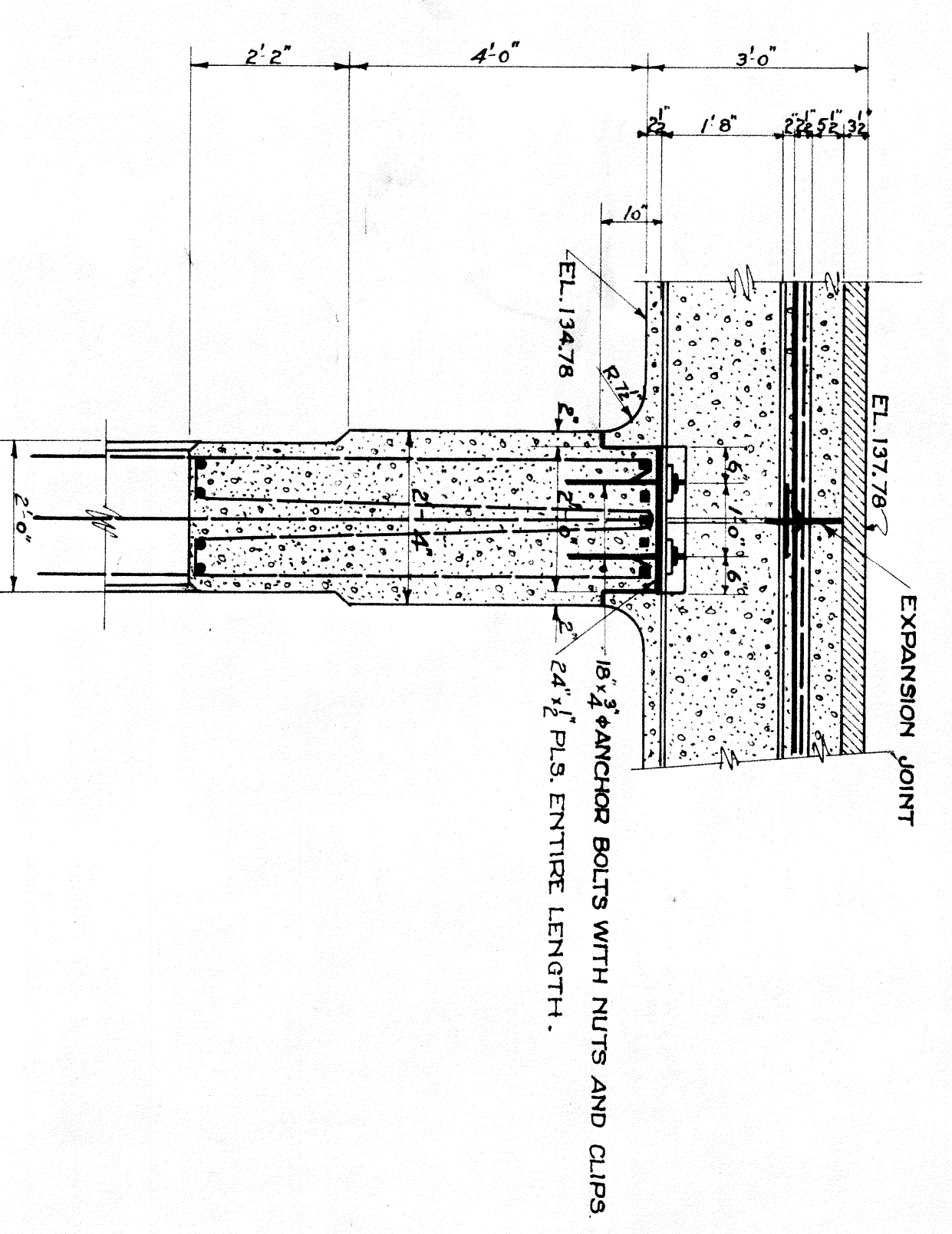
GRAND TRUNK RAILWAY SYSTEM
WESTERN LINES
DEQUINDRE GRADE SEPARATION
DETROIT, MICHIGAN.
GENERAL PLAN & PROFILE - CHESTNUT ST

DR. L. B. TRAVIS
OFFICE OF CHIEF ENGINEER
DETROIT, MICHIGAN
JULY, 1929

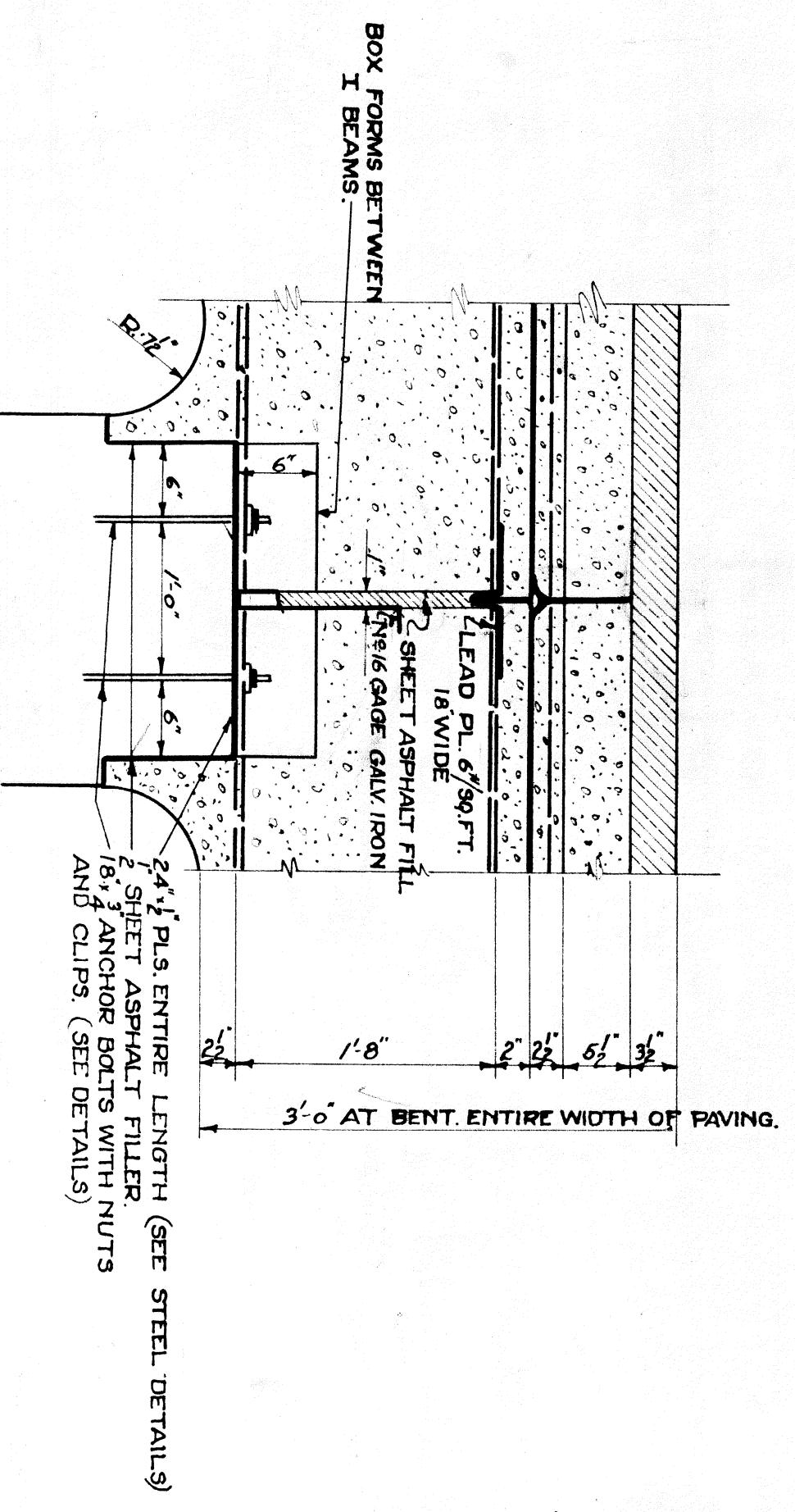
JOHNSON, N.
NO. 3175
FILE



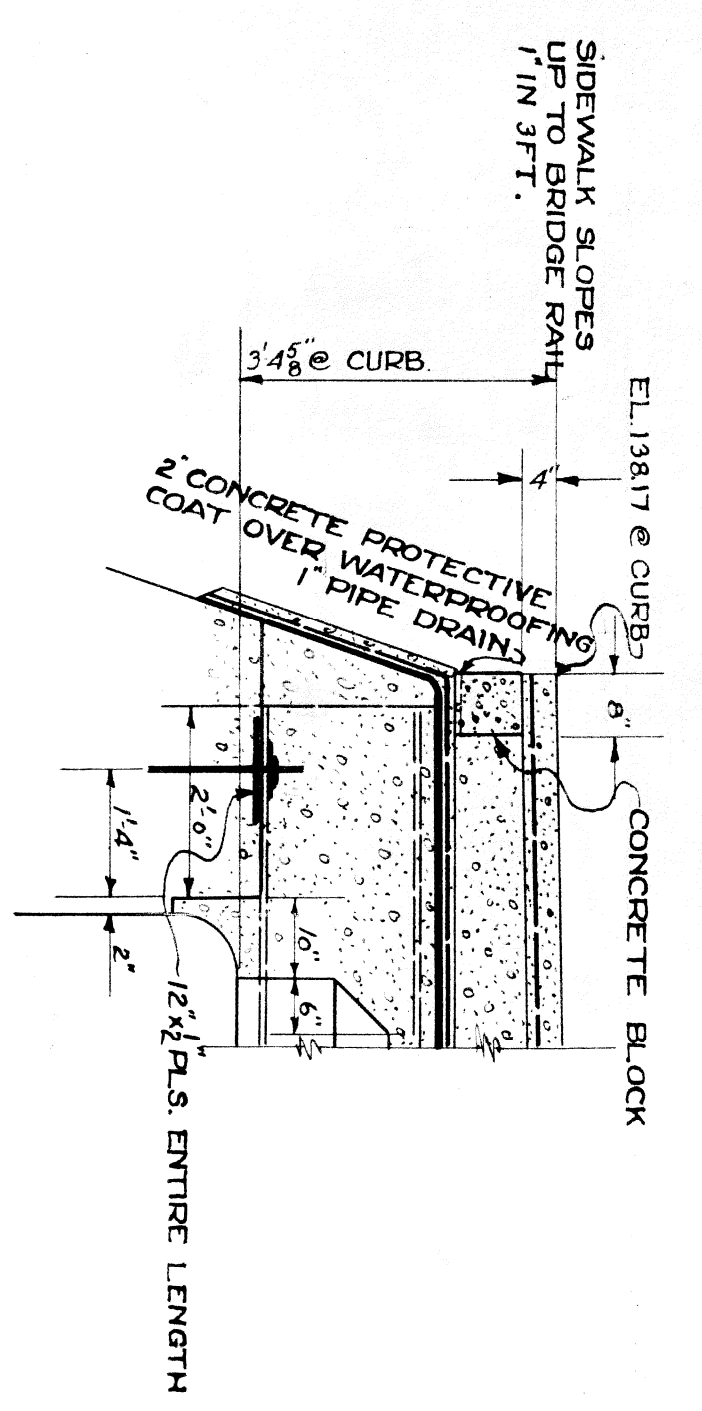
SECTION AAA AT ABUTMENT.



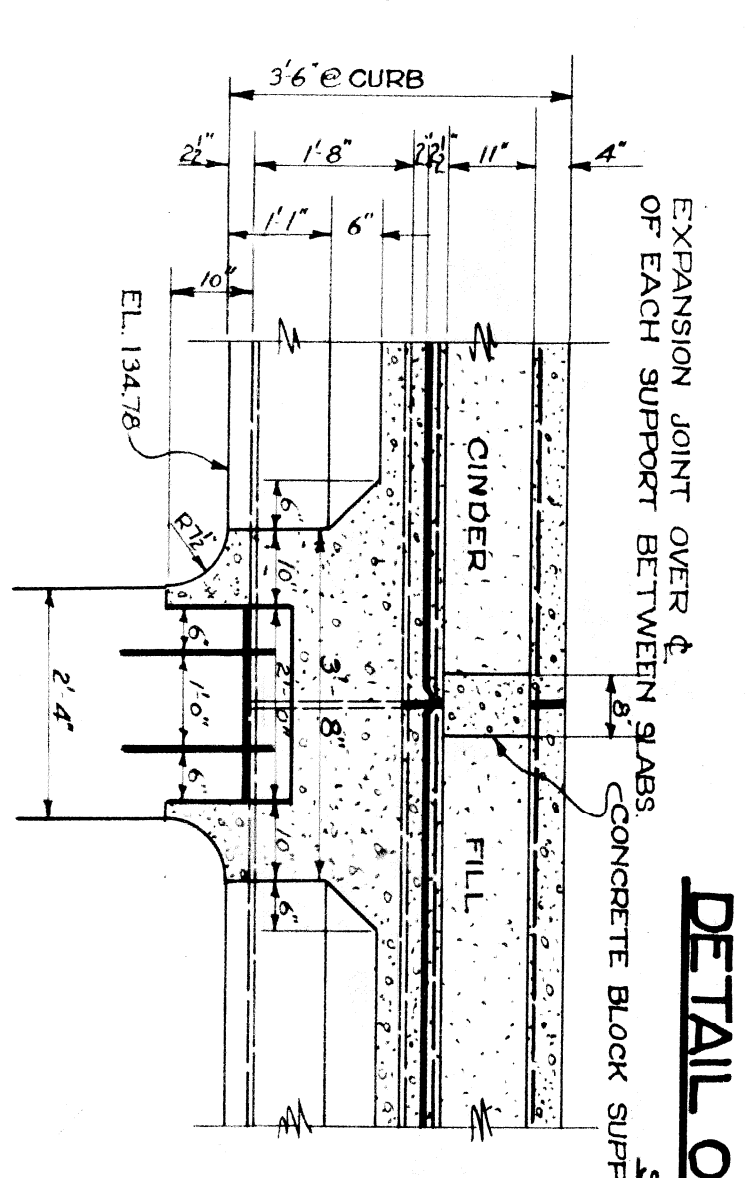
SECTION AA AT BENT.



SECTION AA AT BENT ENLARGED.

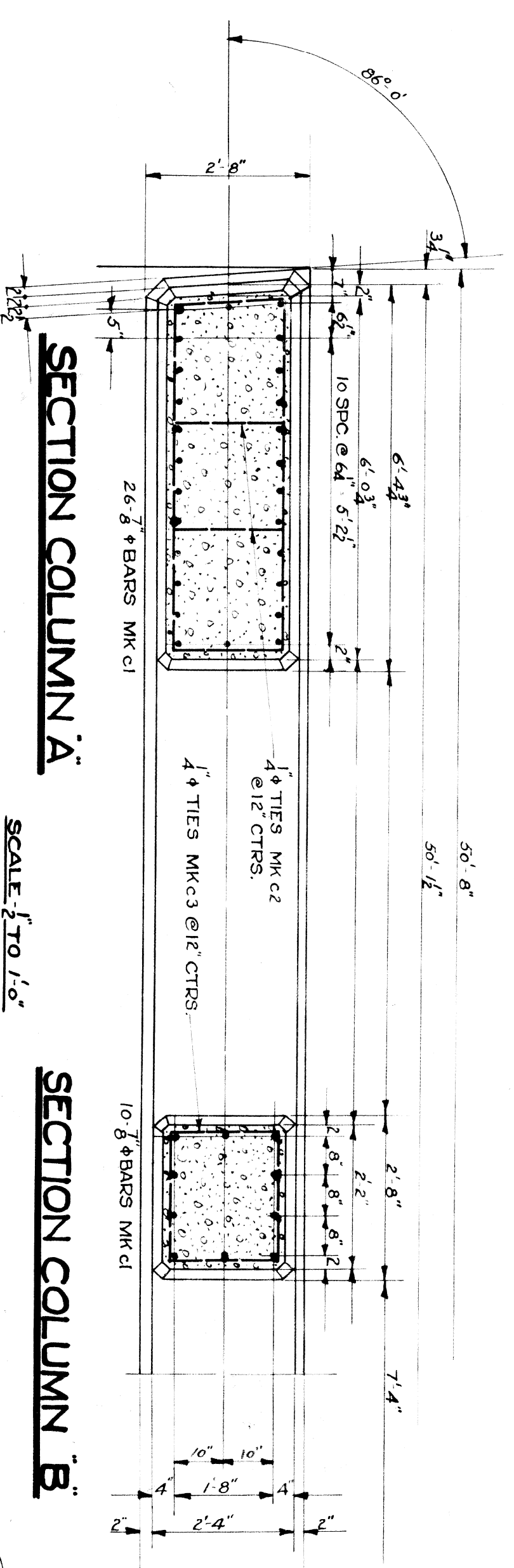
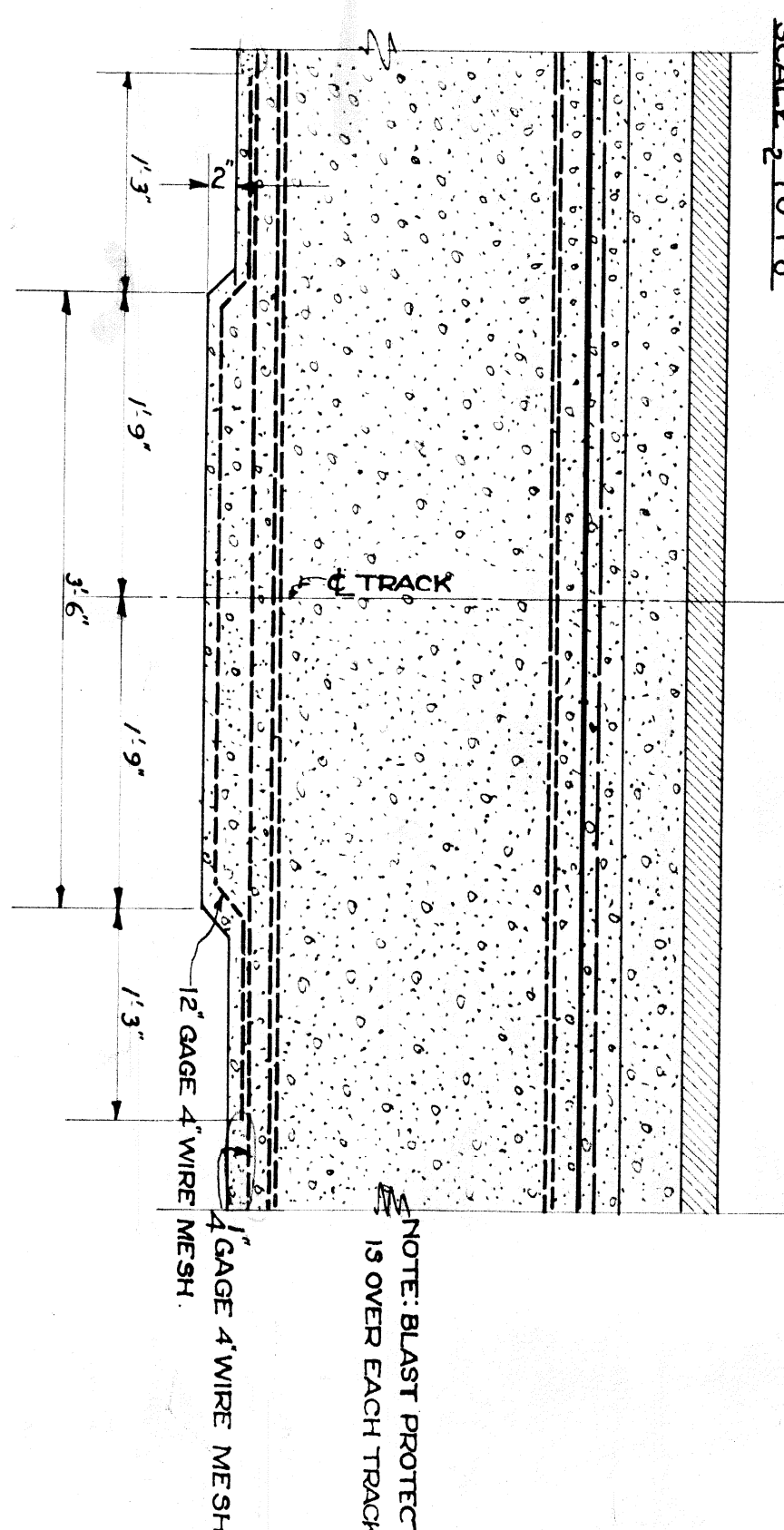


SECTION B-B AT ABUTMENT.



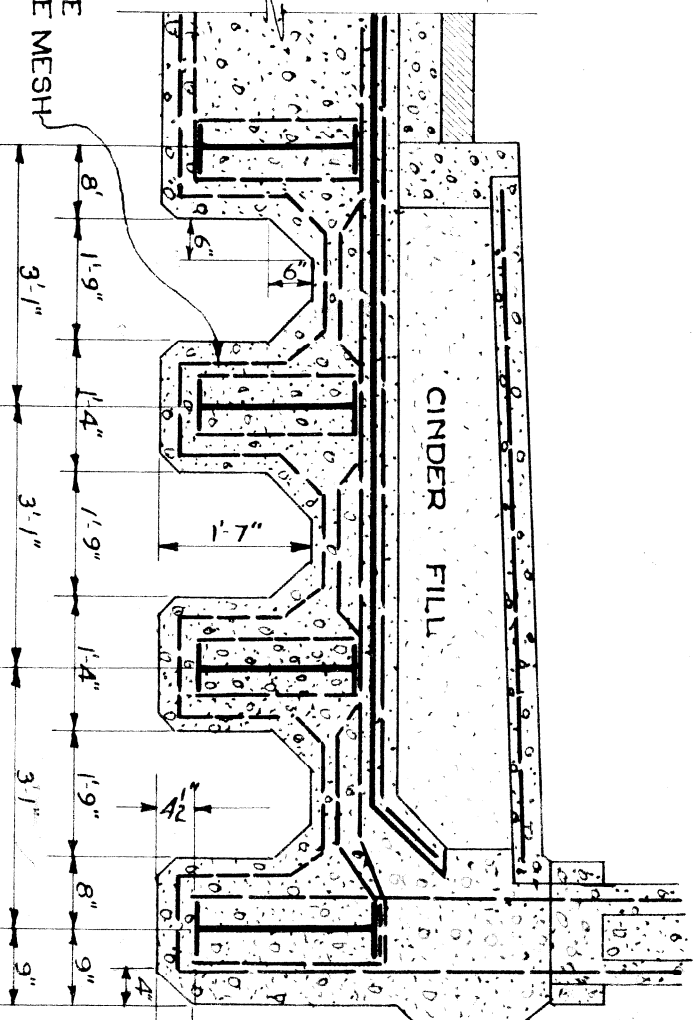
SECTION B-B AT BENT.

DETAIL OF BLAST PROTECTION

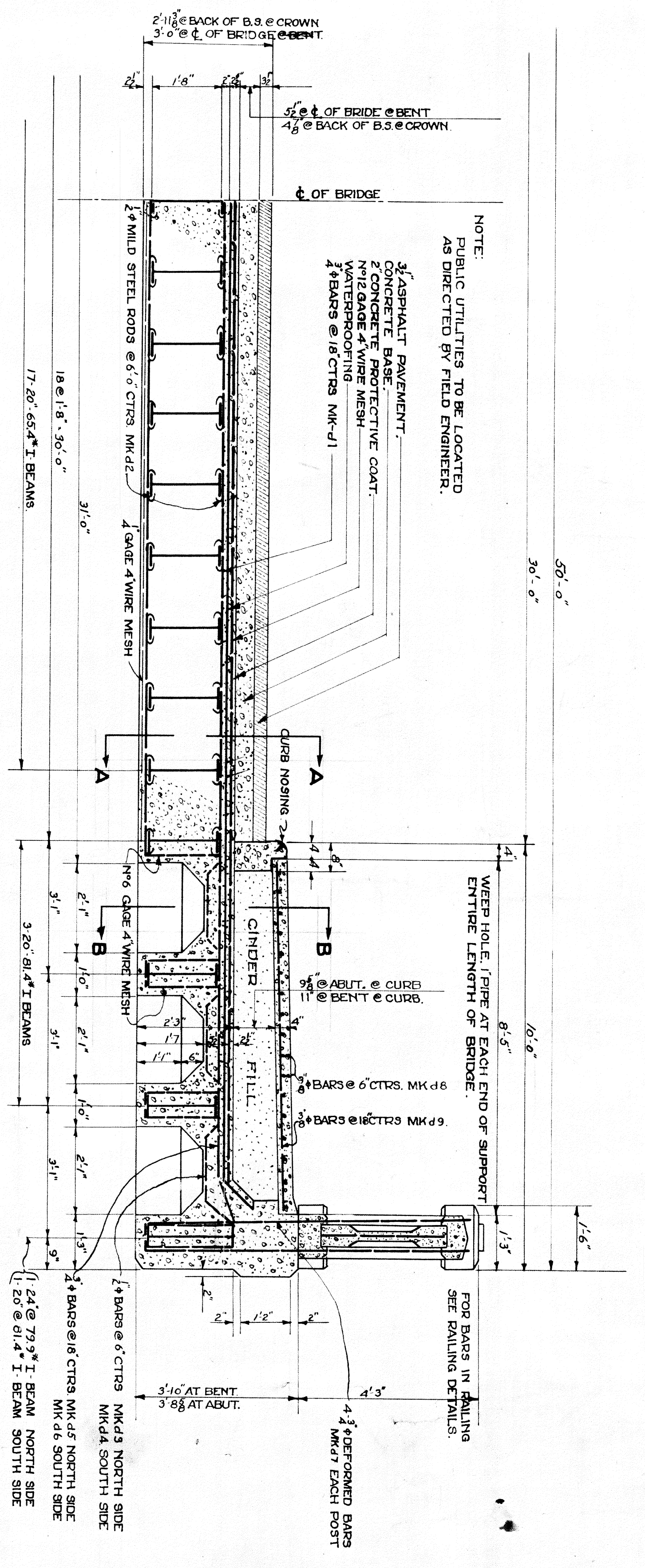


SECTION COLUMN A.

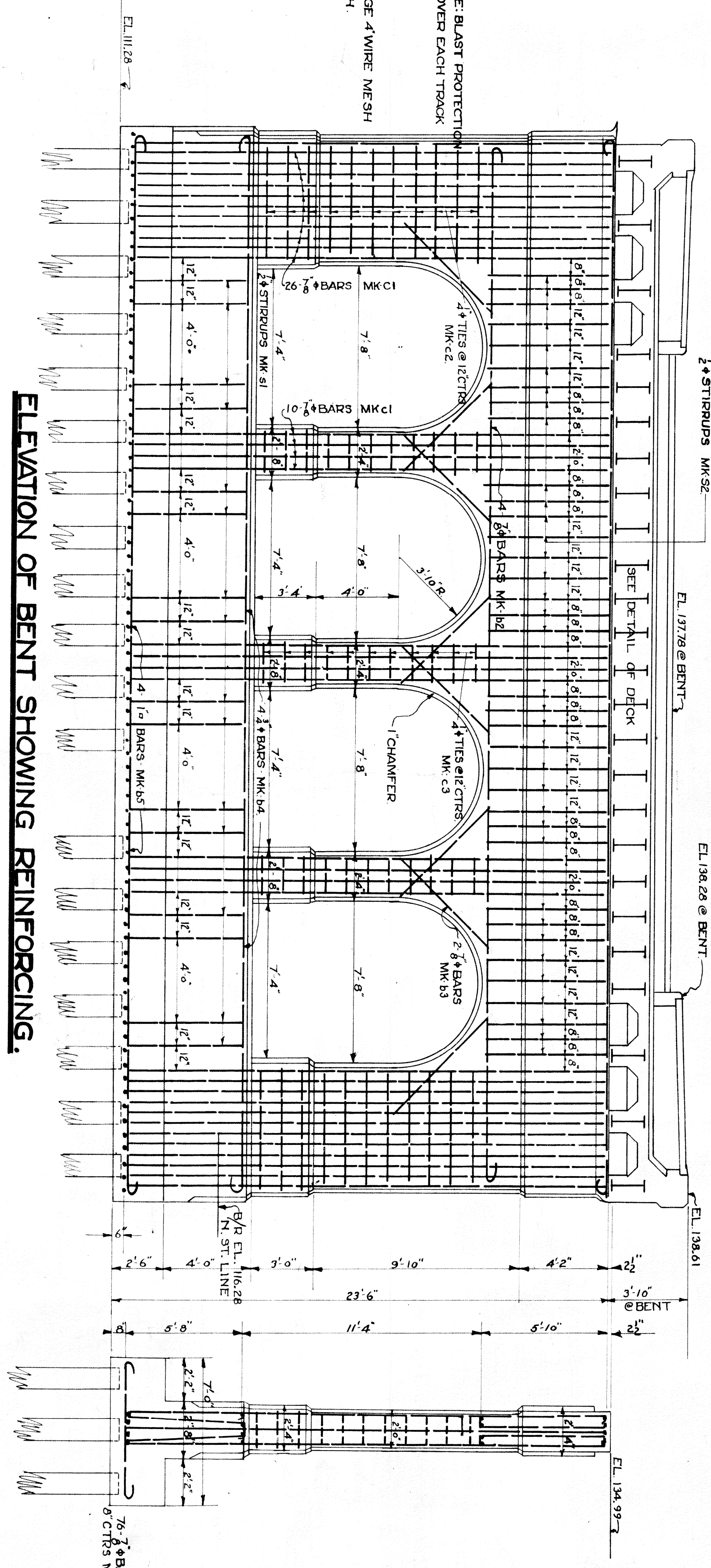
SECTION COLUMN B.



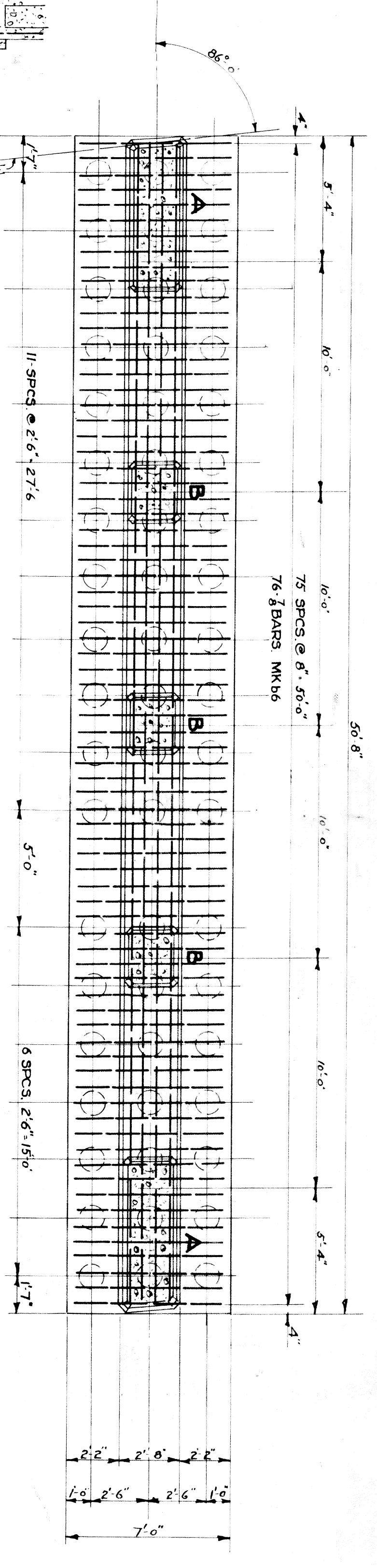
BLAST PROTECTION UNDER WALK.



HALF SECTION THRU DECK - NORTH SIDE.



ELEVATION OF BENT SHOWING REINFORCING.



PLAN.

APPROVED
 CHIEF ENGINEER D.G.H. M.R.V.
 APPROVED
 CITY ENGINEER

GRAND TRUNK RAILWAY SYSTEM
 WESTERN LINES
 DEQUINDE GRADE SEPARATION
 DETROIT MICH.
 BRIDGE- CHESTNUT STREET
 SCALE AS SHOWN.
 OFFICE OF CHIEF ENGINEER
 DETROIT, MICHIGAN
 JOURNAL #
 IV. 3177
 FILE.
 JULY 1929
 SHEET 2 OF 3.

BILL OF REINFORCING STEEL

LOCATION	NO.	BAR SIZE	LENGTH	BENDING DIAGRAM
TOP BENT	10	b1	30'-0"	
TOP BENT ABOVE ARCHES	8	b2	26'-0"	
BENT OVER ARCHES	8	b3	14'-0"	
TOP BENT FOOTING BEAMS	8	b4	26'-0"	
BOTTOM BENT FOOTING BEAM	8	b5	30'-0"	
BENT FOOTING	7	b6	6'-0"	
BENT COLUMN	8	c1	23'-0"	
BENT COLUMN TIES	2	c2	23'-0"	
BENT COLUMN TIES	3	c3	8'-6"	
BENT LOWER STRIPPERS	1	s1	23'-0"	
BENT UPPER STRIPPERS	3	s2	26'-0"	
DECK ROADWAY	8	d1	11'-3"	
DECK ROADWAY	2	d2	2'-8"	
DECK SIDEWALK NORTH SIDE	1	d3	11'-8"	
DECK SIDEWALK SOUTH SIDE	1	d4	11'-2"	
DECK SIDEWALK NORTH SIDE	4	d5	11'-0"	
DECK SIDEWALK SOUTH SIDE	4	d6	10'-9"	
POST DOWNERS	4	dt	1'-0"	
SIDEWALK SLAB	2	ds	10'-2"	
RAILING	4	d10	3'-6"	
		d11	5'-6"	
		d12	4'-0"	
		d13	13'-10"	
		d14	12'-10"	
		d15	13'-8"	
		d16	14'-8"	
		d17	13'-8"	
		d18	13'-8"	

RAILING SCHEDULE

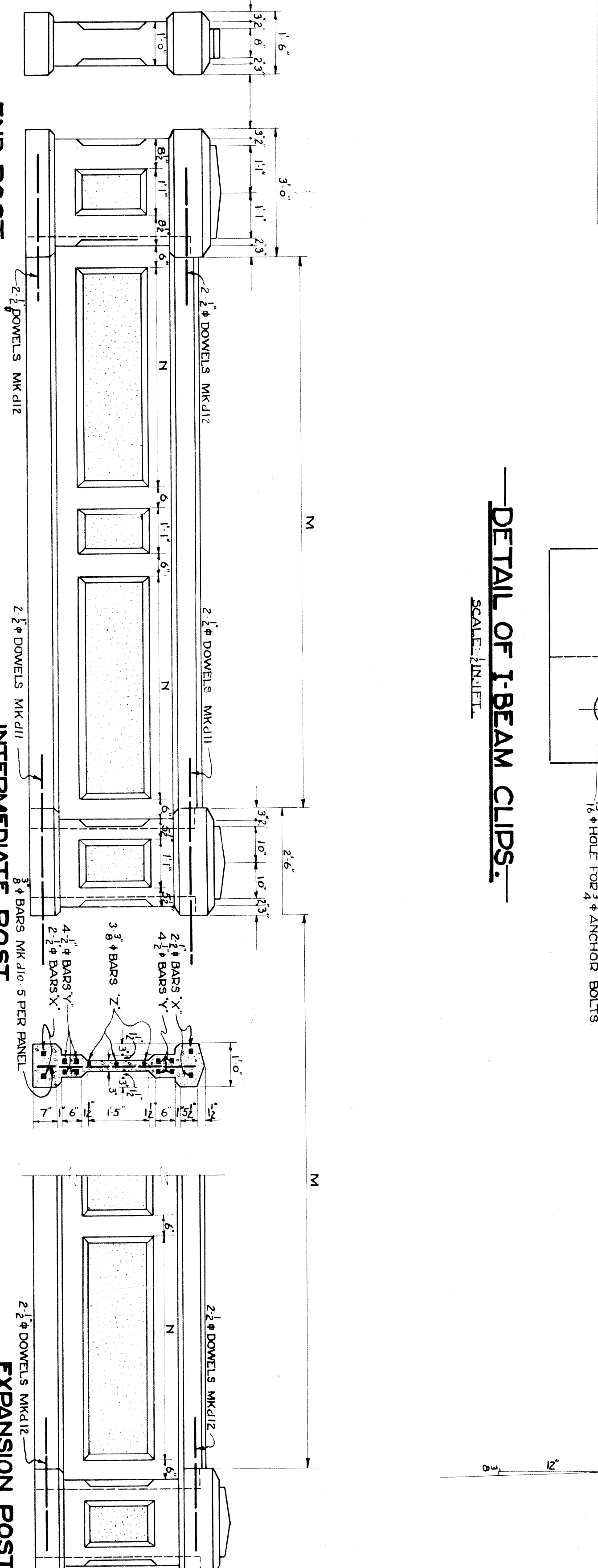
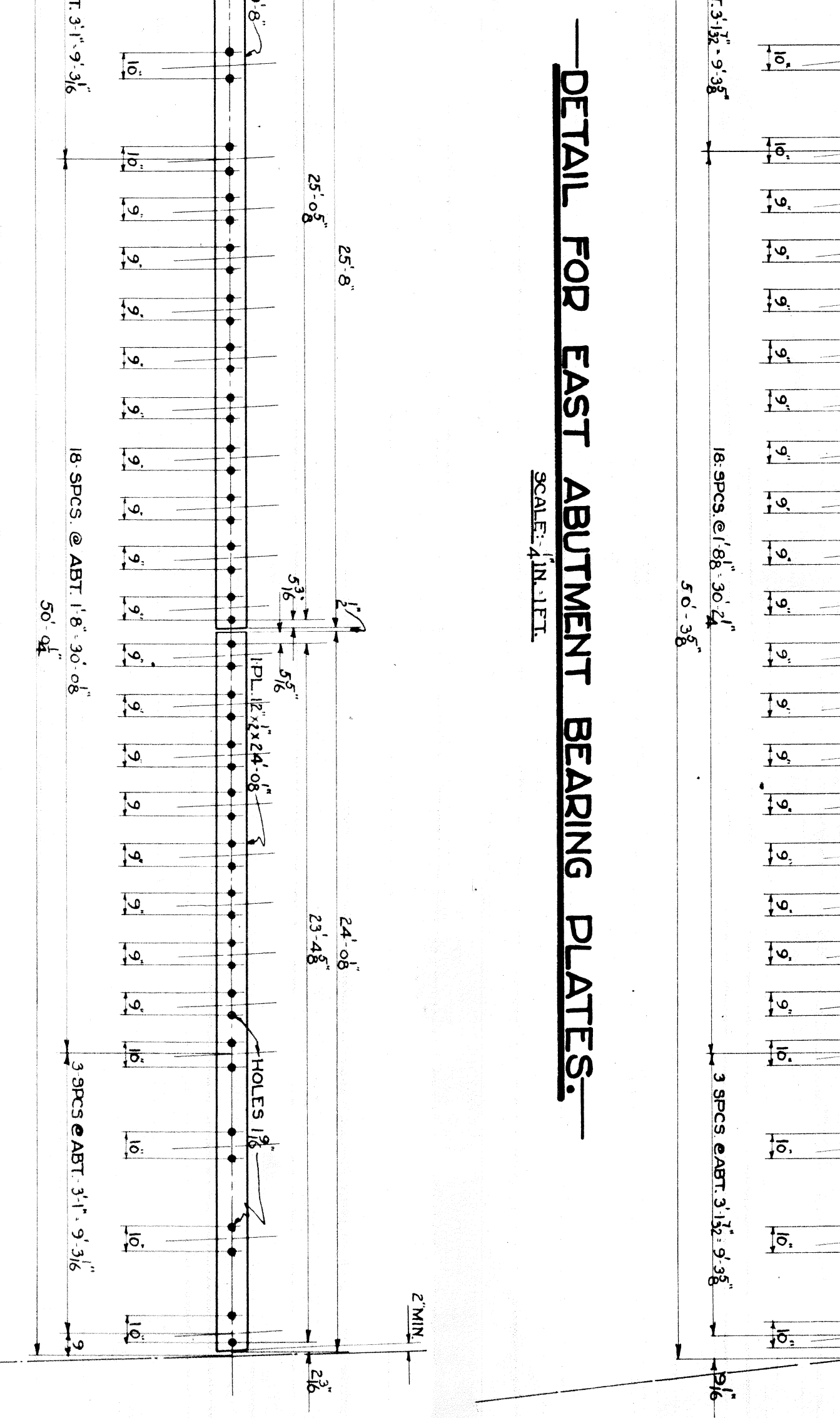
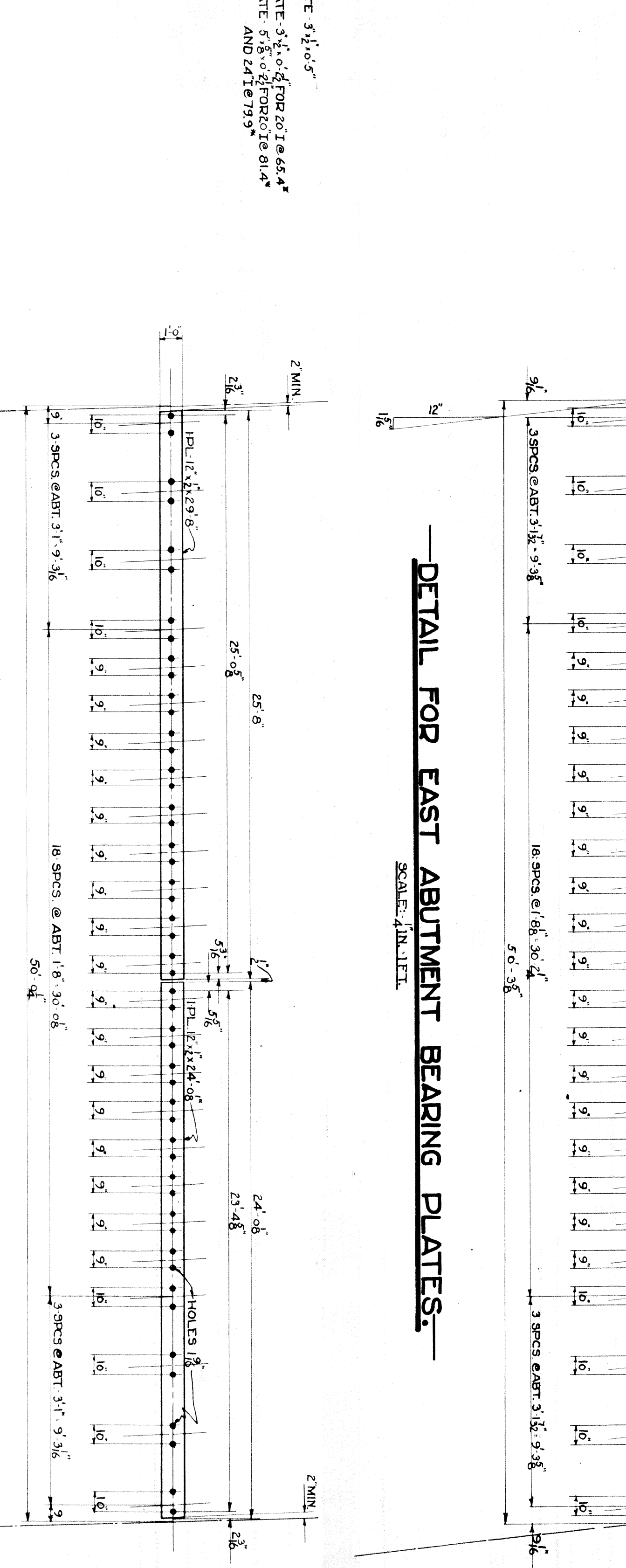
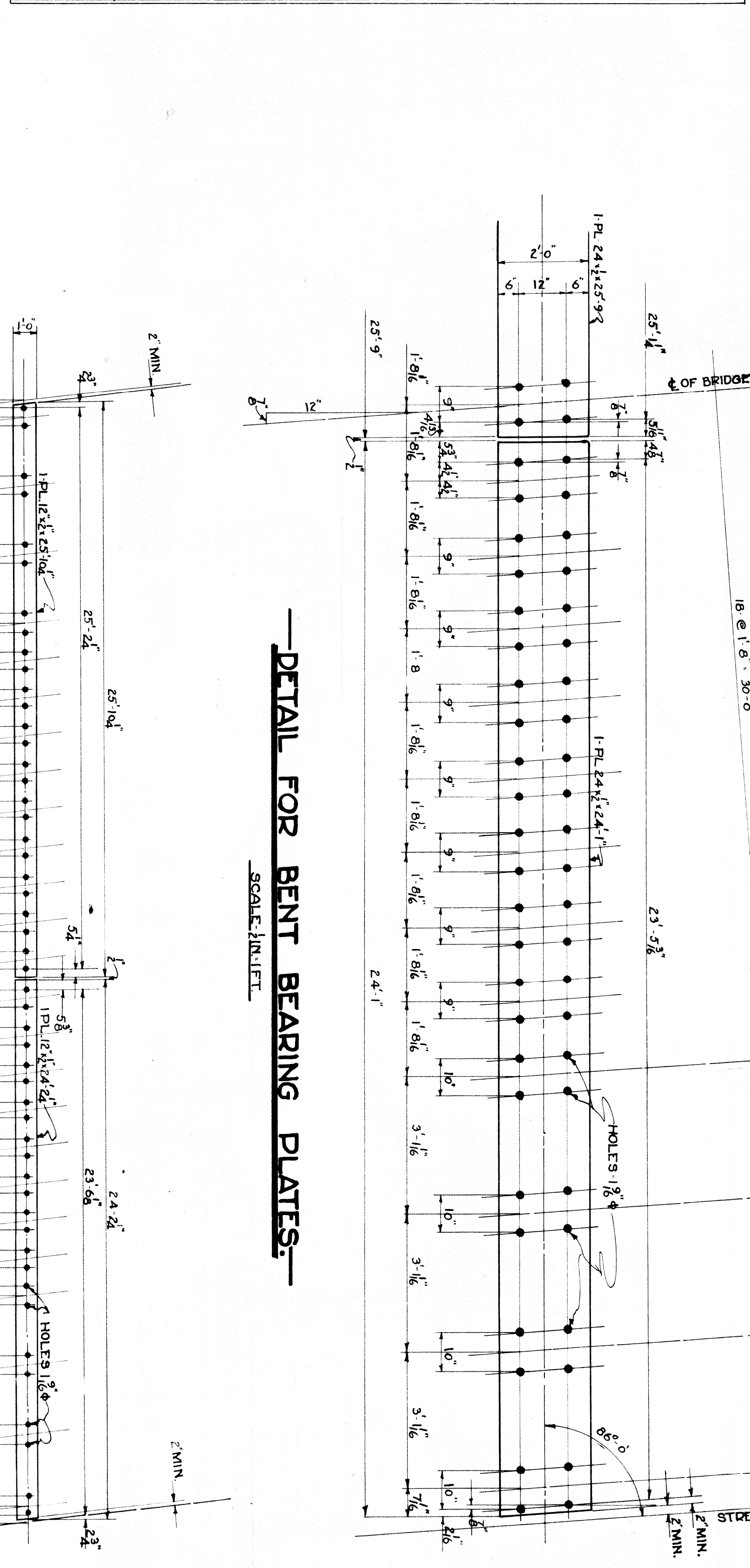
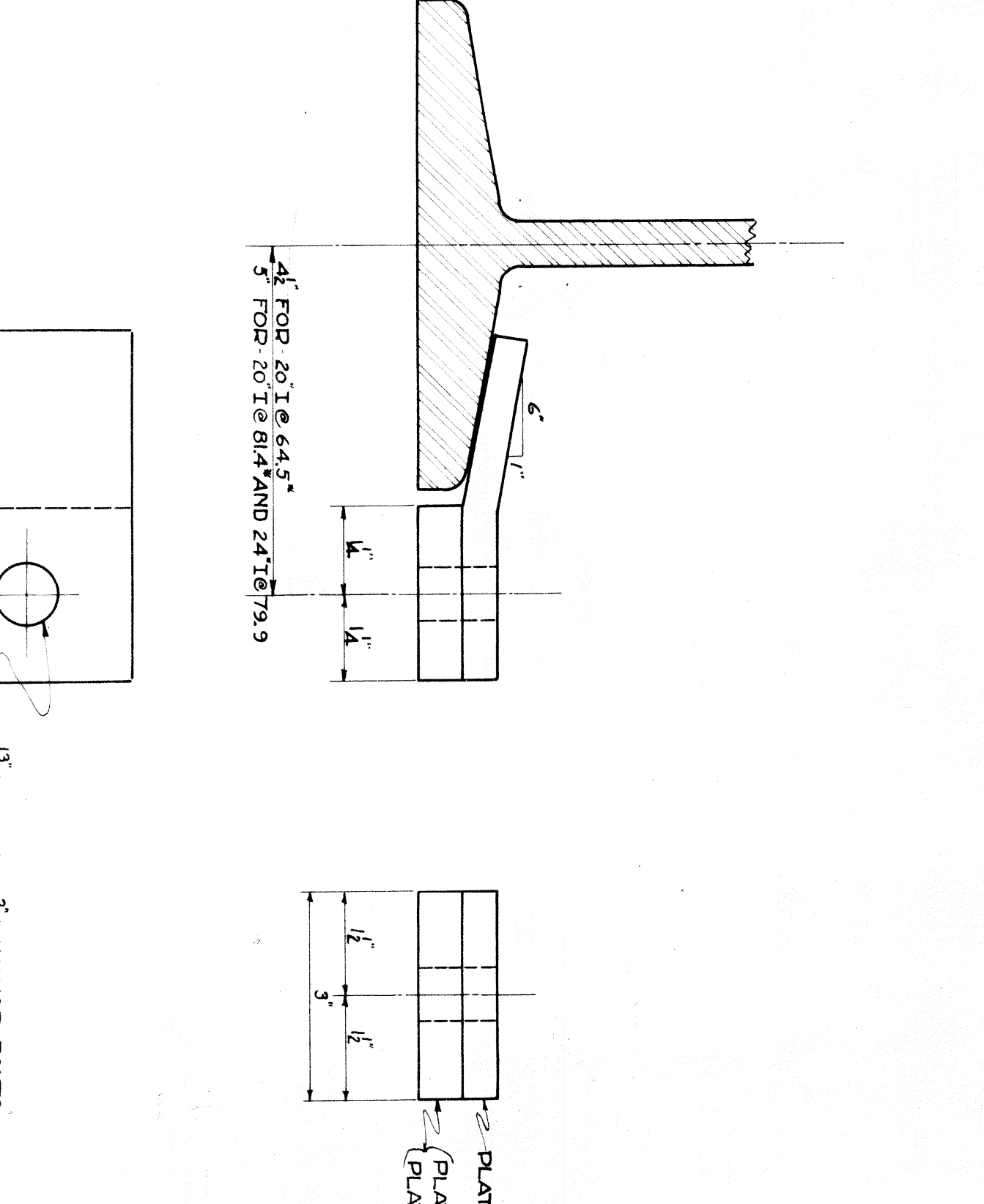
PANEL	M	N	1	2	3
NORTH SIDE	14'-0"	5'-8"	MKD13 - 13'-10"	MKD15 - 14'-8"	MKD17 - 14'-8"
SOUTH SIDE	13'-0"	5'-2"	MKD14 - 13'-10"	MKD16 - 13'-8"	MKD18 - 13'-8"

BILL OF FLOOR BEAMS

LOCATION	NO.	MARK.	SIZE	LENGTH	REMARKS
DECK SIDEWALK	8	Bm-1	2x12 @ 18"	32'-4"	NO DRILLING
DECK ROADWAY	12	Bm-2	2x12 @ 18"	32'-9"	
DECK ROADWAY	10	Bm-3	2x12 @ 18"	33'-1"	
DECK ROADWAY	12	Bm-4	2x12 @ 18"	33'-5"	
DECK SIDEWALK	2	Bm-5	2x12 @ 18"	33'-10"	
		Bm-6	2x12 @ 18"	34'-0"	

MISCELLANEOUS MATERIALS

ITEMS	NO.	SIZE	LENGTH	DESCRIPTION
BENDING PLATES	1	2 1/2" x 1/2"	26'-9"	SEE DETAIL
EAST ABUTMENT BEARING PLATES	1	1 1/2" x 1/2"	25'-10 1/2"	
WEST ABUTMENT BEARING PLATES	1	1 1/2" x 1/2"	25'-6"	
ANCHOR BOLTS	200	1/2" x 1/2"	24'-0"	SWEDEN BOLTS WITH NUTS AND WASHERS
CLIPS	200	3/4" x 1/2"	0'-5"	SEE DETAIL
	136	3/4" x 1/2"	0'-2"	
	64	3/4" x 1/2"	0'-2"	



APPROVED: *[Signature]*
 CHIEF ENGINEER D.G.H. AMIR
 CITY ENGINEER

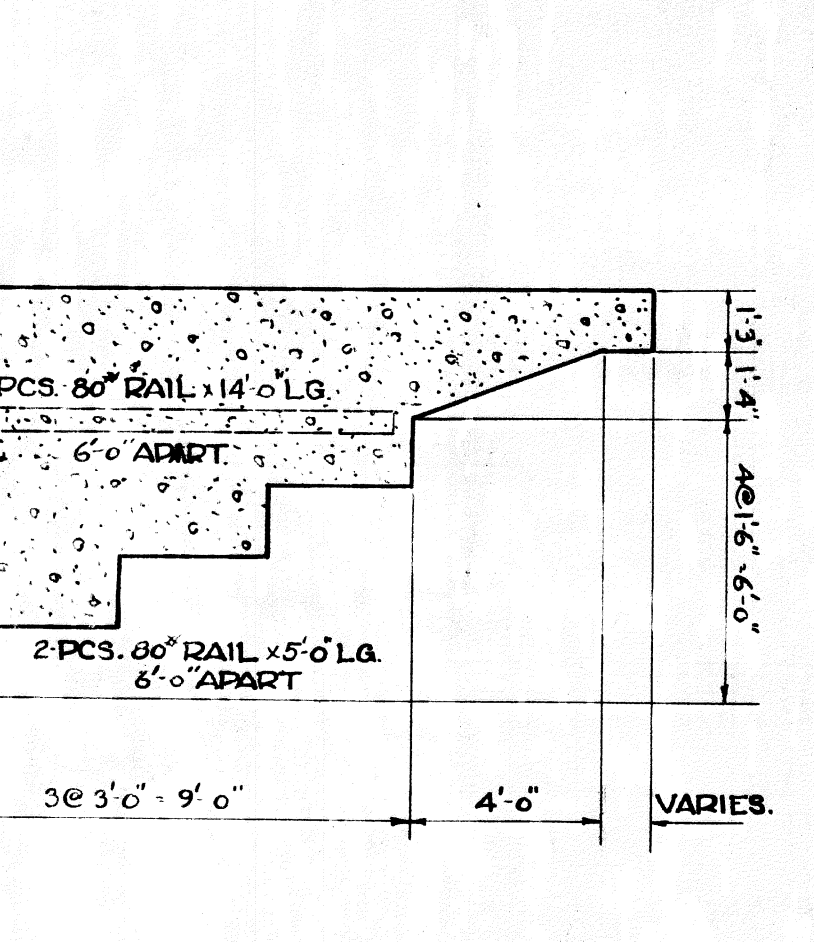
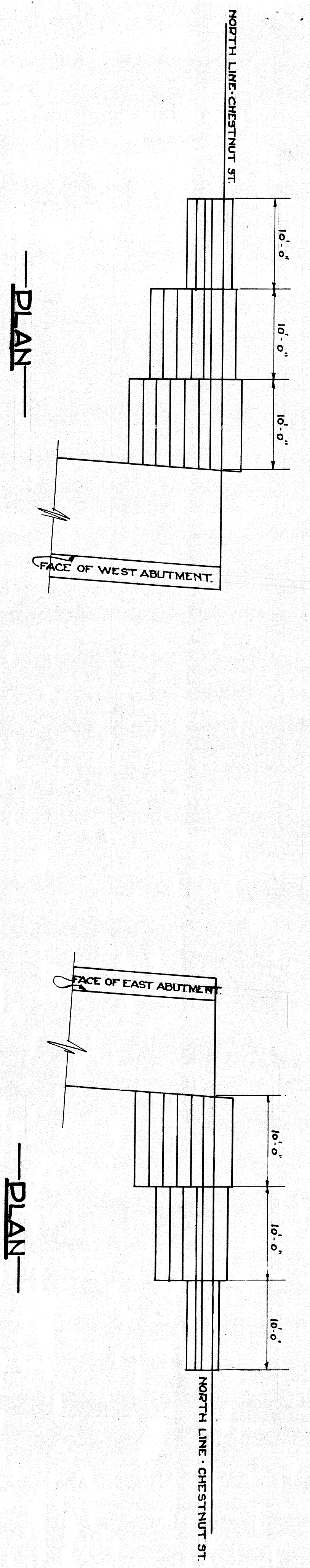
APPROVED: *[Signature]*
 CHIEF ENGINEER
 CITY ENGINEER

DR. H.G.F. TR. WHF. CH.
 OFFICE OF CHIEF ENGINEER
 DETROIT, MICHIGAN
 JULY 16, 1929

JOURNAL W-3176 FILE
 SCALE AS SHOWN

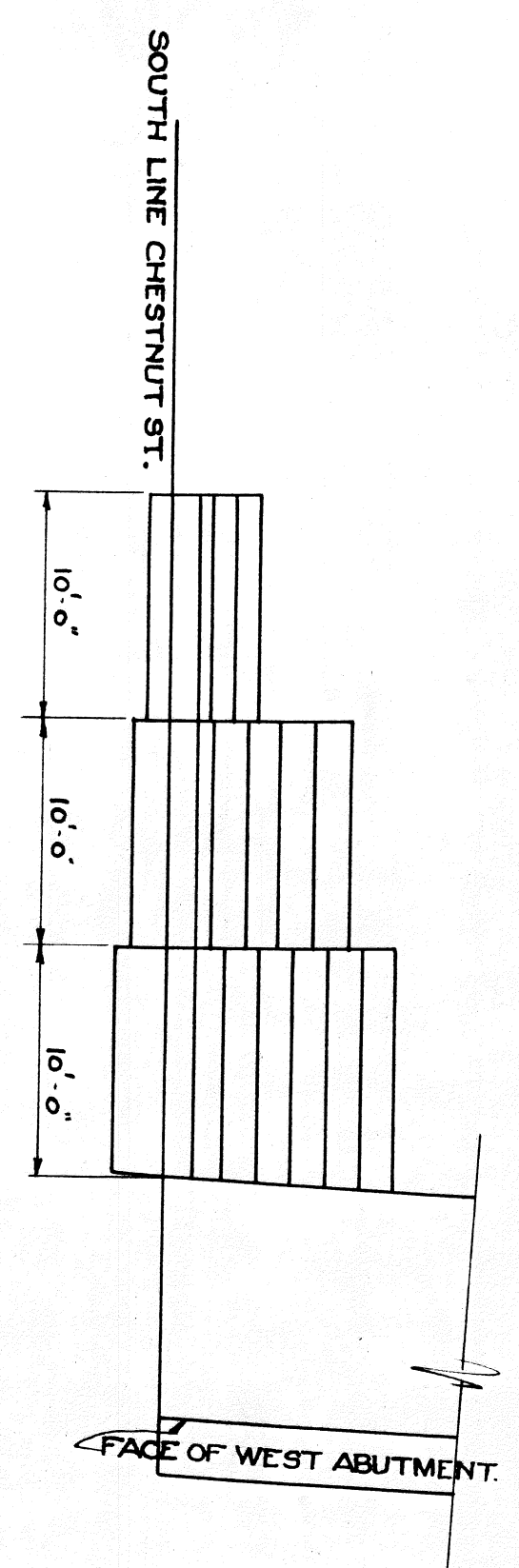
GRAND TRUNK RAILWAY SYSTEM
 WESTERN LINES
 DEQUINDE GRADE SEPARATION
 DETROIT, MICHIGAN.
 BRIDGE - CHESTNUT STREET

SHEET 3 OF 3

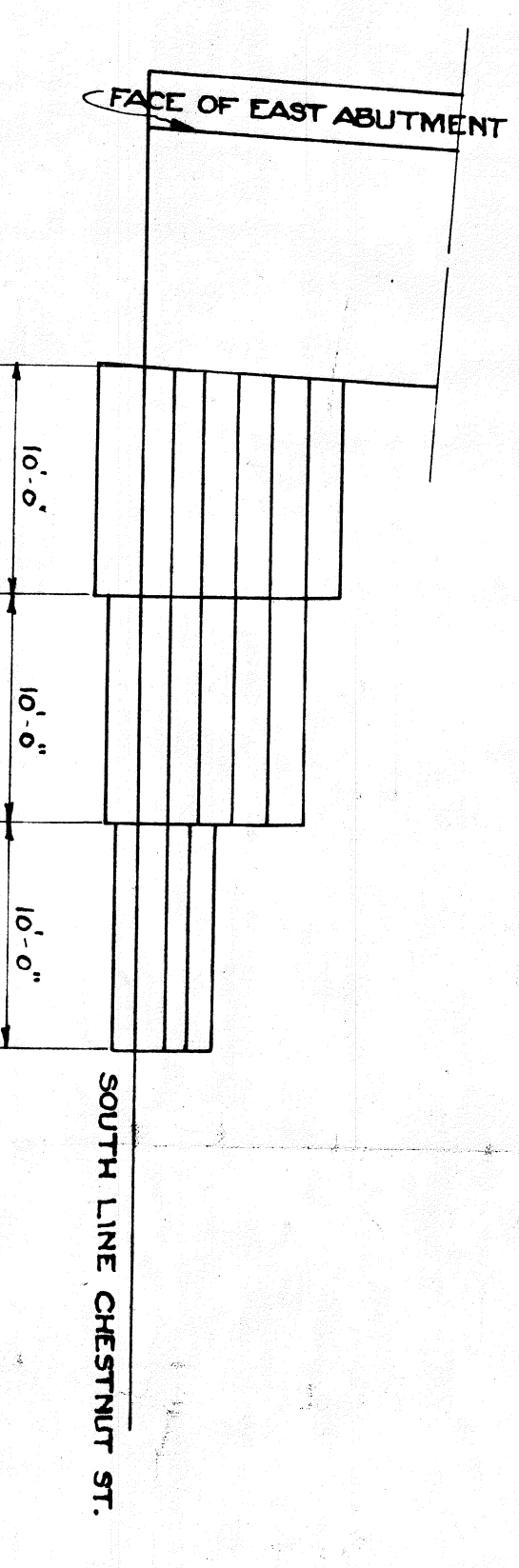


ELEVATION

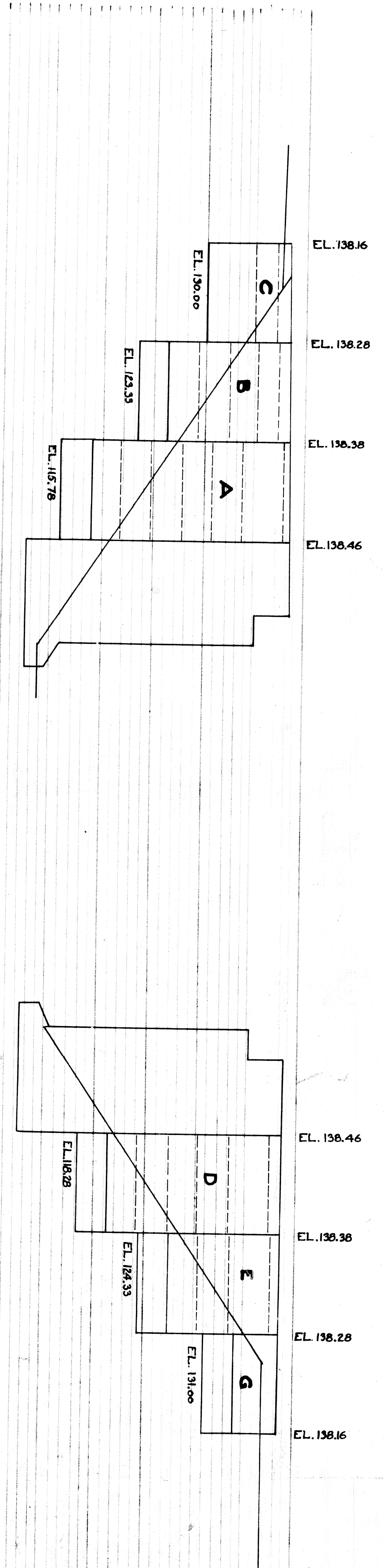
ELEVATION



PLAN

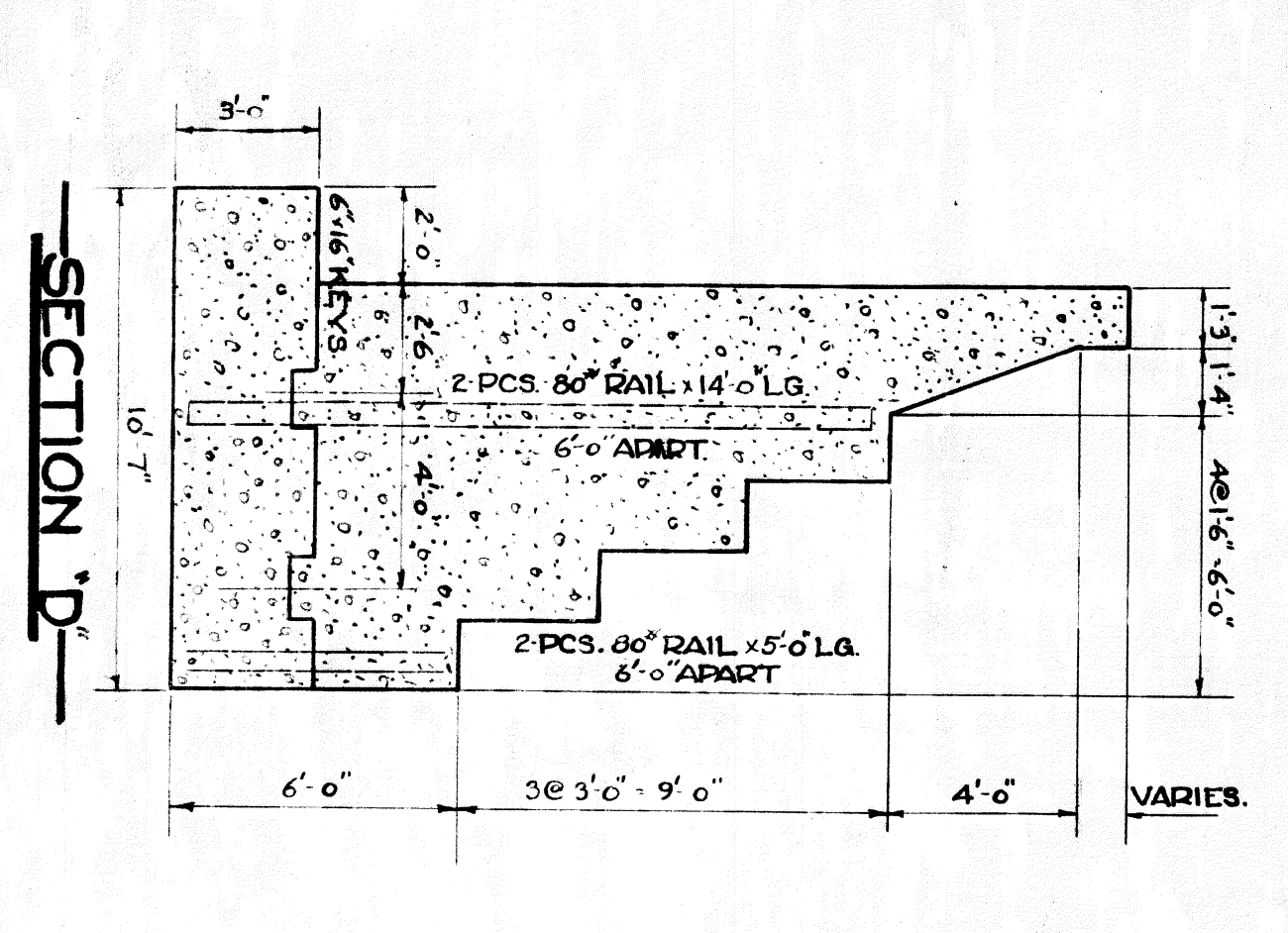


PLAN

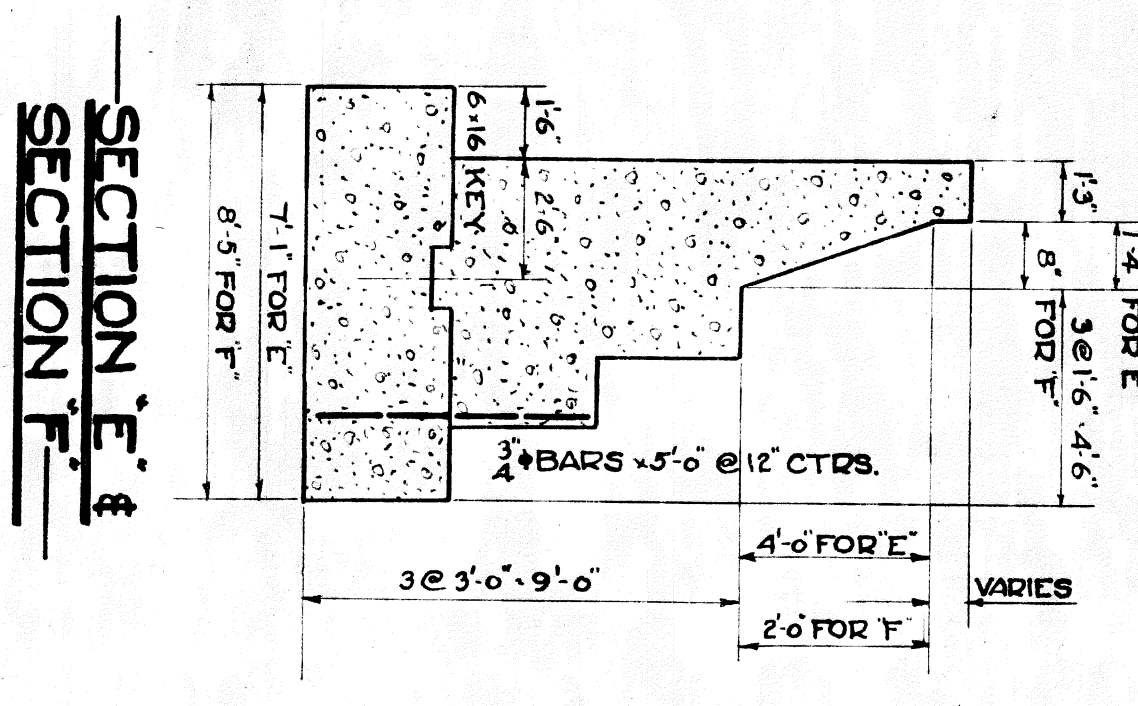


ELEVATION

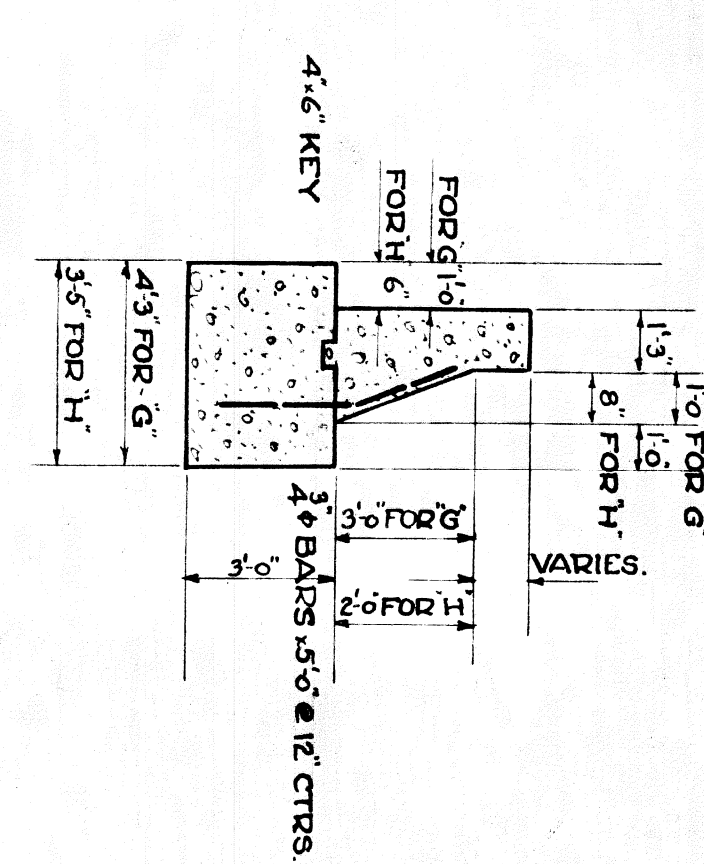
ELEVATION



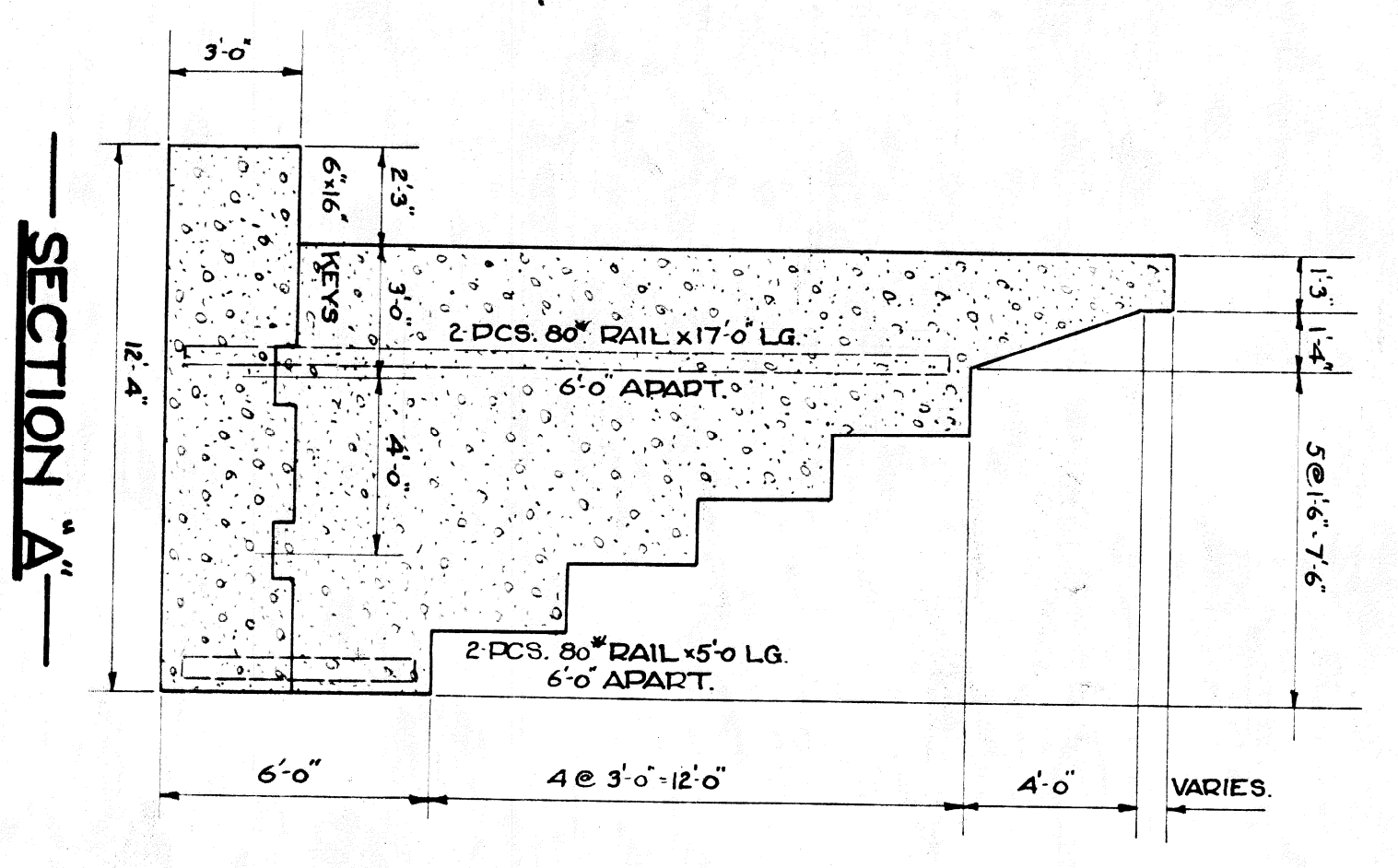
SECTION D



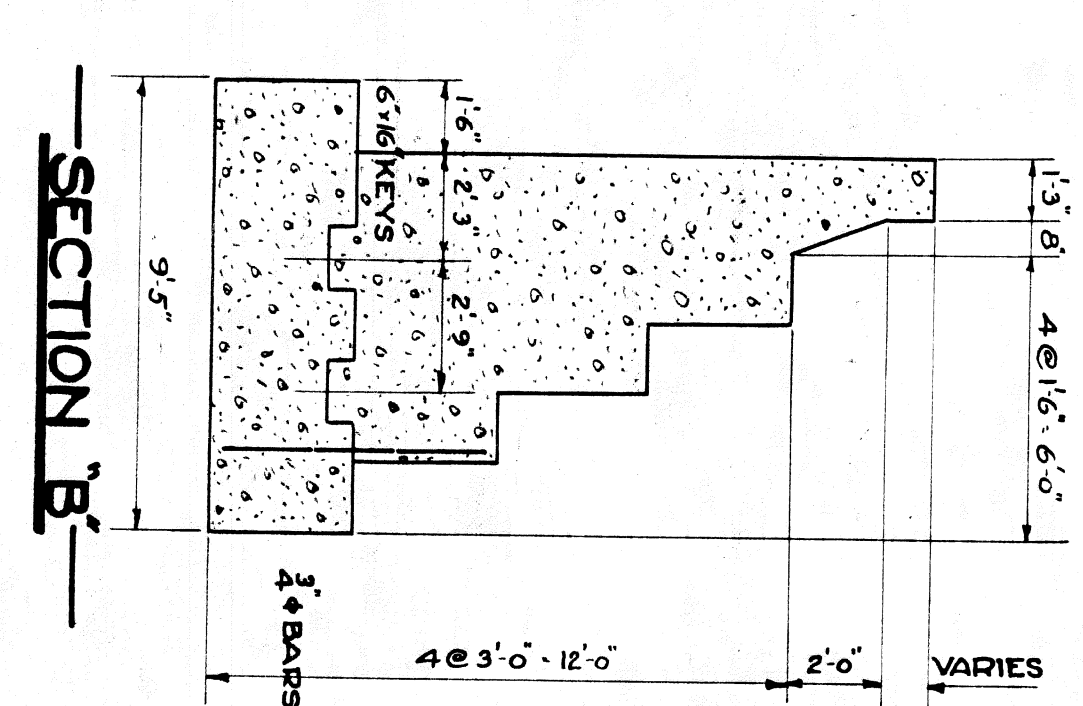
SECTION E & SECTION F



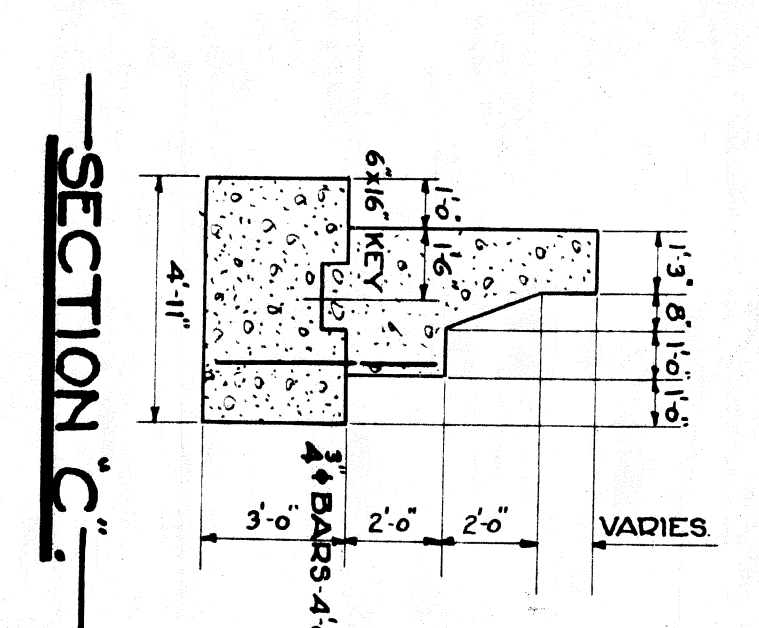
SECTION G & SECTION H



SECTION A



SECTION B



SECTION C

RETAINING WALL SECTIONS.

SCALE: 1/4"=1'-0"

APPROVED: *[Signature]*
 CHIEF ENGINEER D.G.H.M.P.V.
 APPROVED: *[Signature]*
 CITY ENGINEER

GRAND TRUNK RAILWAY SYSTEM
 WESTERN LINES
 DEQUINDE GRADE SEPARATION
 DETROIT, MICH.
 RETAINING WALLS - CHESTNUT ST.
 SCALE: AS NOTED.
 DR. L. S. TR. WHF. CH. OFFICE OF CHIEF ENGINEER DETROIT, MICHIGAN. JULY 29, 1929. JOURNAL NO. 5719 FILE

SCALE: 1/4"=1'-0"