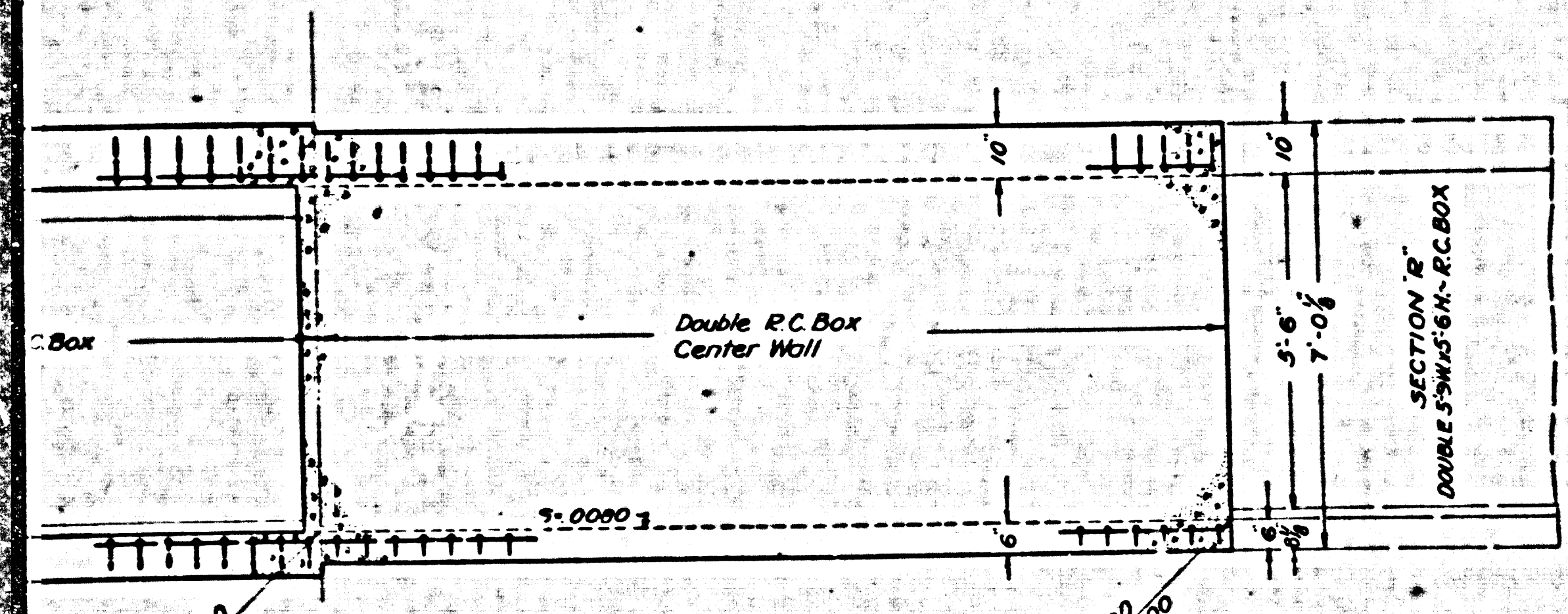
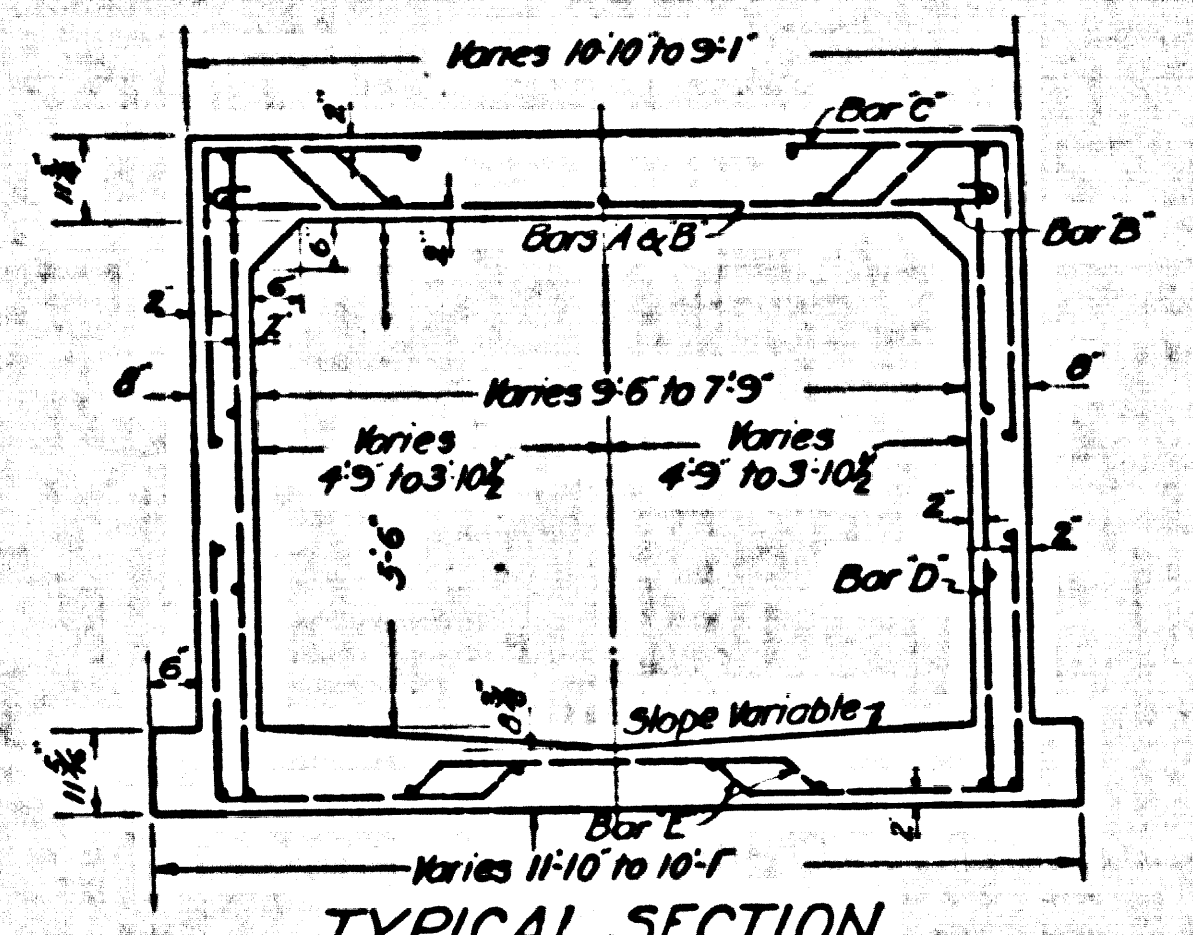


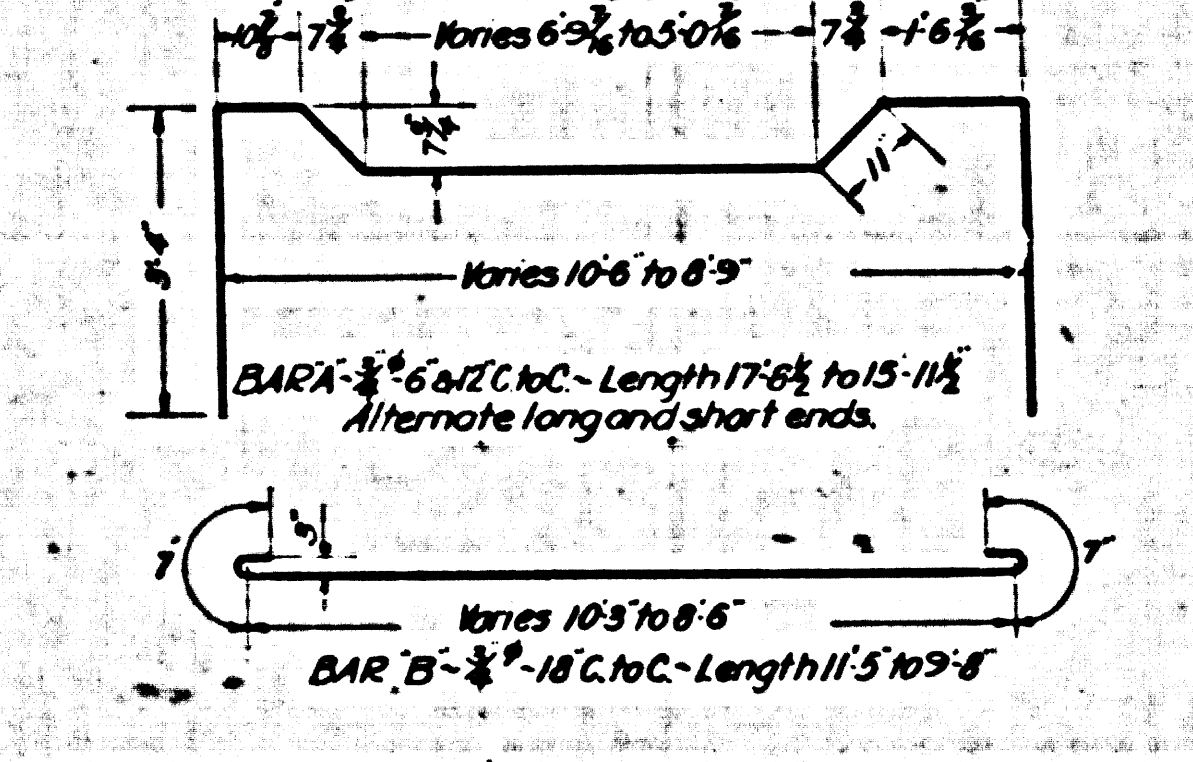
PLAN



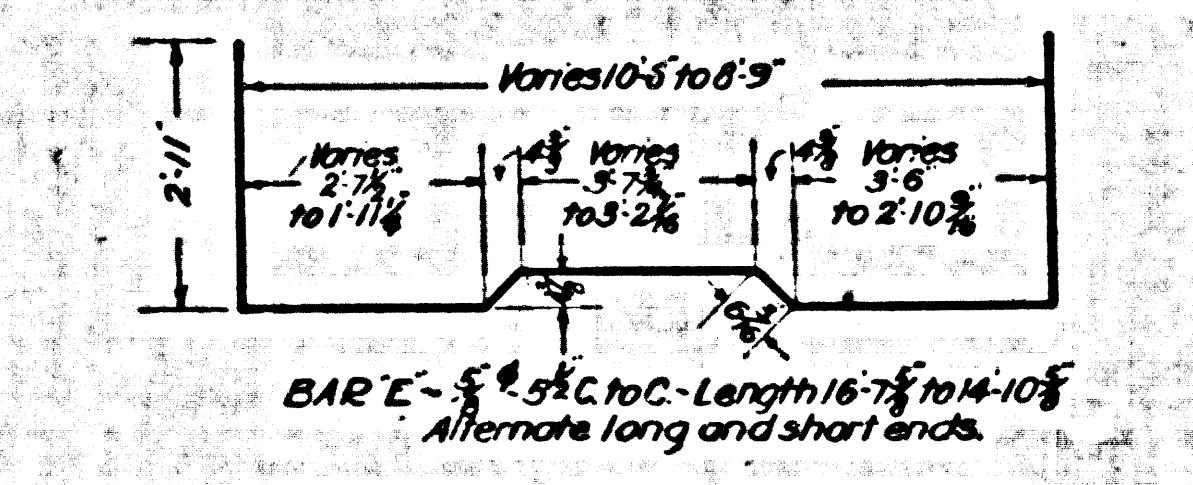
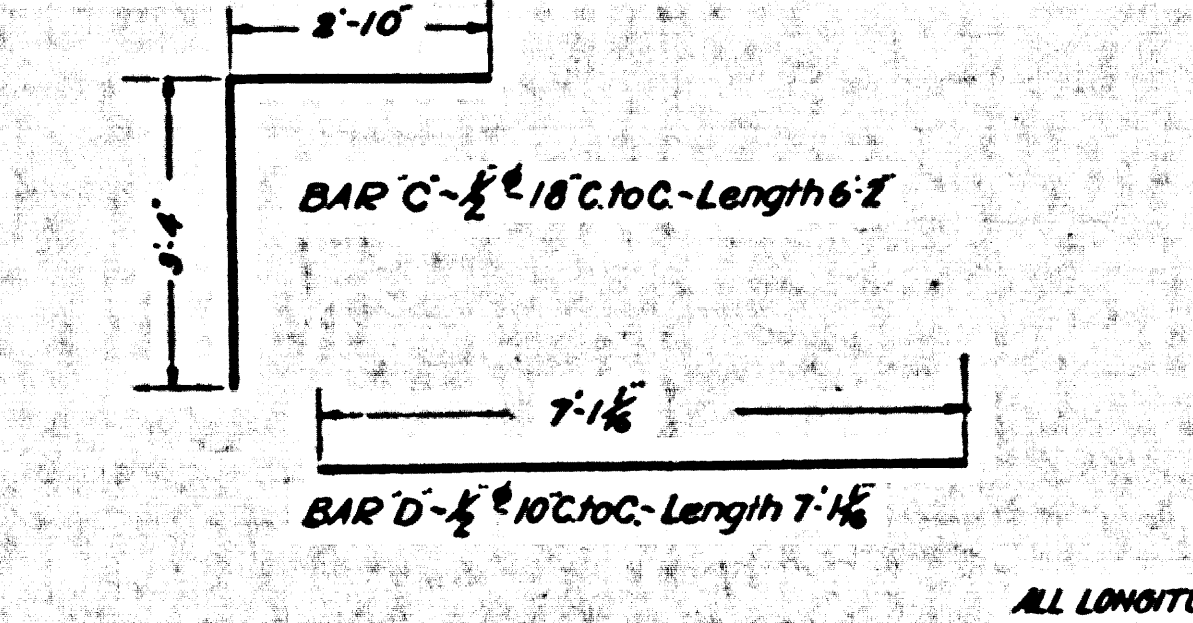
SECTION A-A



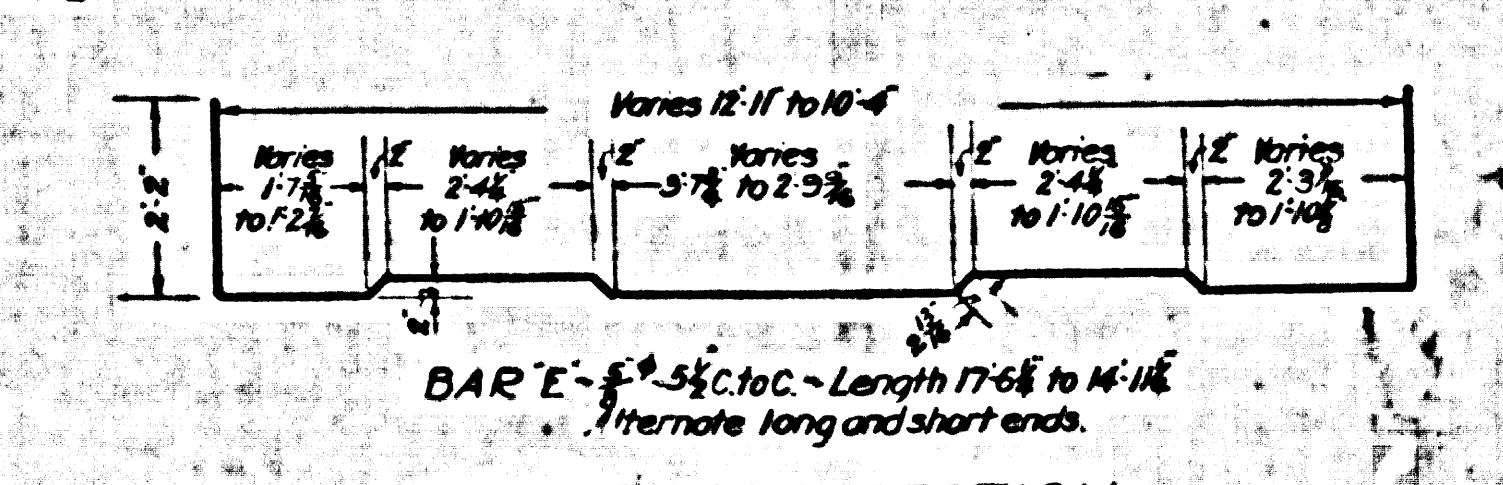
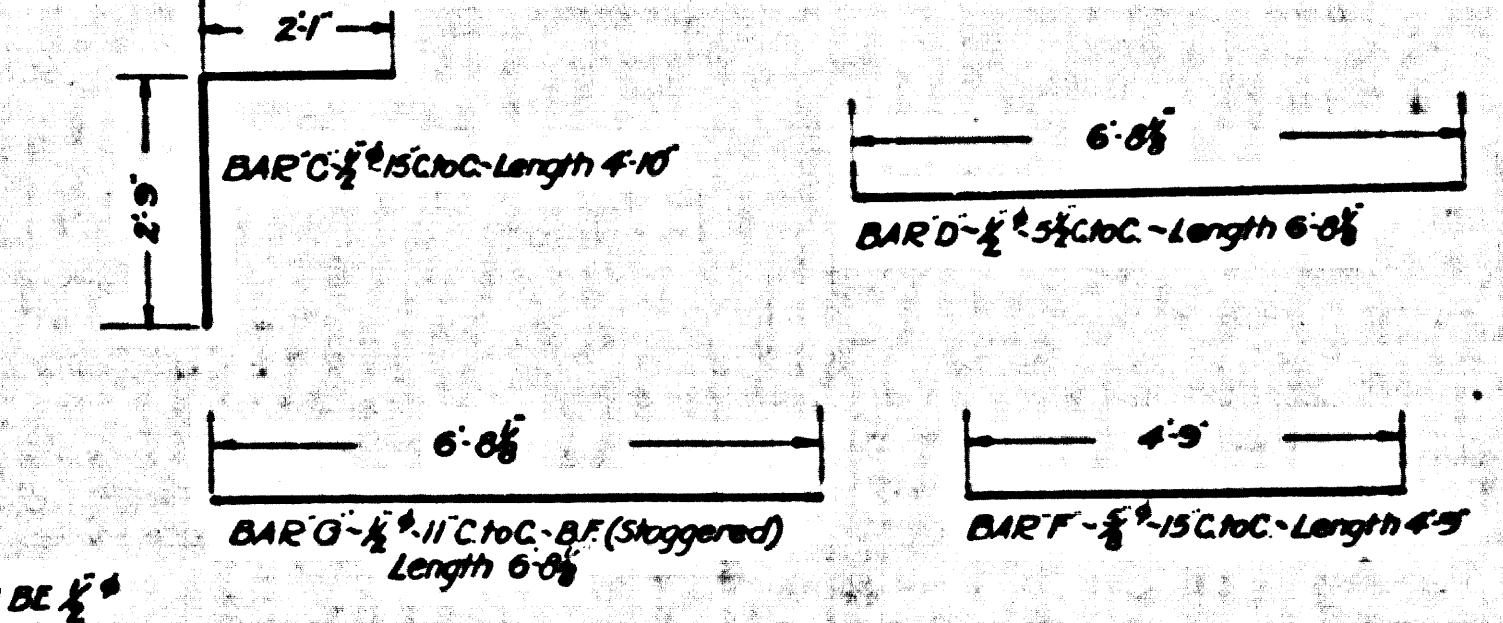
TYPICAL SECTION



TYPICAL SECTION



SINGLE BOX SECTION TO BE USED FROM STATION 130+2490 TO STATION 130+35.00



DOUBLE BOX SECTION TO BE USED FROM STATION 130+1000 TO STATION 130+2490

ALL LONGITUDINAL STEEL TO BE #4

SPECIAL STRUCTURE NO. 8
STATION 130+10.00 TO STATION 130+35.00 ~ LOMITA TRUNK
SCALE 1/2"=1'

CSB-1165-7
A1 OF A8

NOTES:
Elevations are in feet above USGS or mean Sea Level Datum.
Stations of inlets and junctions refer to the intersections of the center lines of the inlets with the center line of the main drain.
Elevations of all inlets except catch basin inlets into box sections refer to the flow lines of the inlets produced on their gradients to the vertical plane thru the center line of the main drain. Elevations of catch basin inlets in box sections refer to the intersections of the flow lines of these inlets with the inside wall of the box section.
For details of all standard structures see Standard Plans.
All reinforced concrete structures shall be of Class 7-F Concrete.
Weep hole 3/4" in diameter shall be placed in each side wall and spaced not more than five feet each way.

LOMITA BOULEVARD DRAINAGE SYSTEM
OF THE COUNTY OF LOS ANGELES, CALIFORNIA
DETAILS OF SPECIAL STRUCTURES
SPECIAL STRUCTURES 8 TO 13
DETAILS OF BOX SECTIONS
SECTIONS 5 TO 7
SHEET 7 OF 8 SHEETS

SCALES AS SHOWN
DECEMBER 1935
ALFRED JONES COUNTY SURVEYOR
RECOMMENDED BY [Signature] APPROVED [Signature]

REFERENCE	DESIGNED	E.E. MITCHELL	AUG. 1935
	TRACED	J.H. RICE	SEPT. 1935
	CHECKED	J.H. HARTLEY	SEPT. 1935

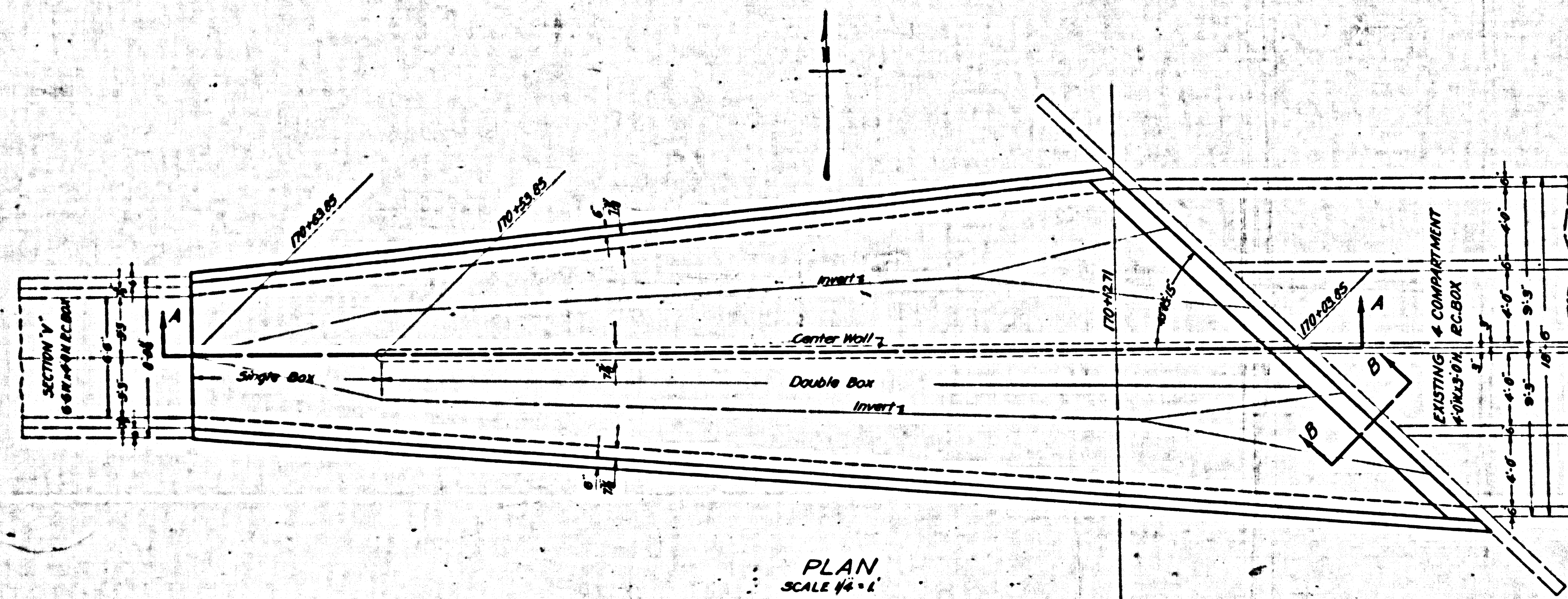
7

Turn Prints to this line

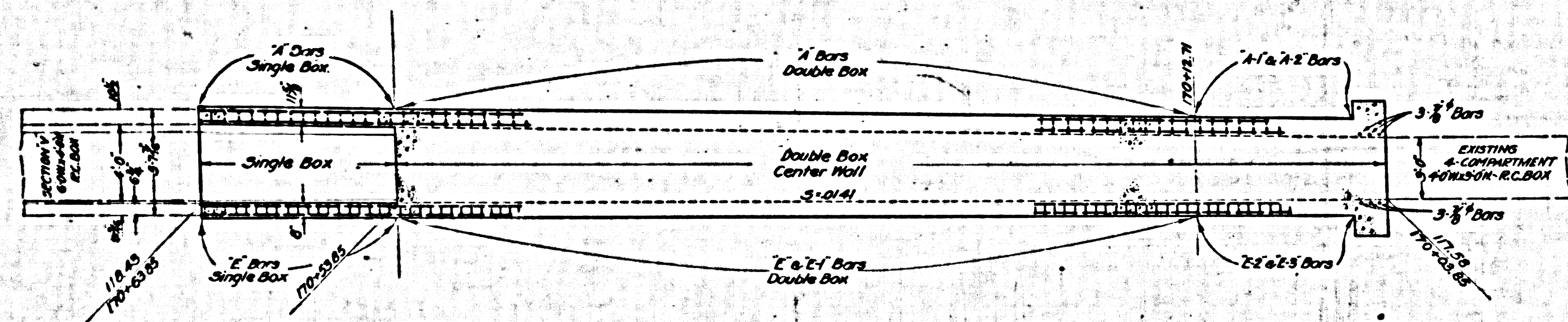
Turn Prints to this line

SHEET NO. 1 OF 8 SHEETS
LOMITA BOULEVARD DRAINAGE SYSTEM NO. 8

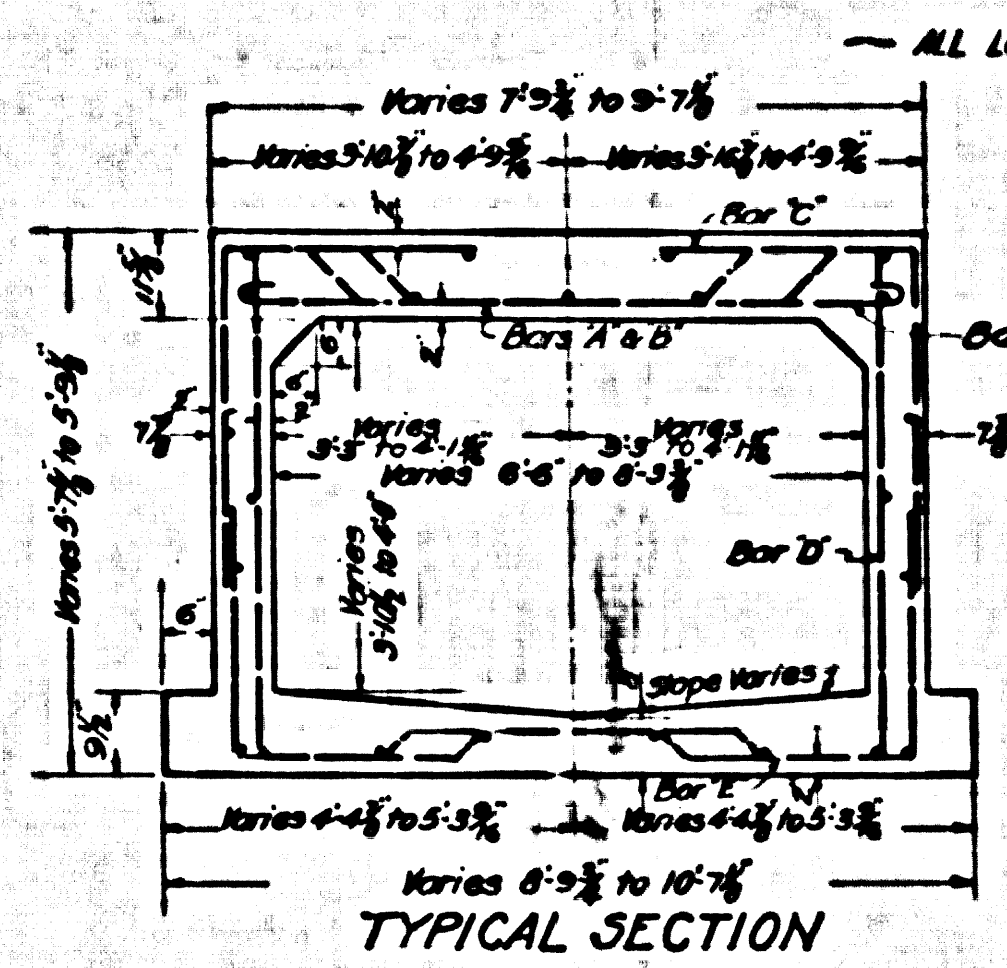
SHEET NO. 7 OF 8 SHEETS
LOMITA BOULEVARD DRAINAGE SYSTEM NO. 8



PLAN SCALE 1/4"=1'



SECTION A-A SCALE 1/4"=1'



TYPICAL SECTION

BAR A - #4 @ 16" C.C. - Length Variable. Alternate long and short ends.

BAR B - #4 @ 24" C.C. - Length Variable.

BAR C - #4 @ 8" C.C. - Length 6'-0"

BAR D - #4 @ 10" C.C. - Length Variable.

BAR E - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

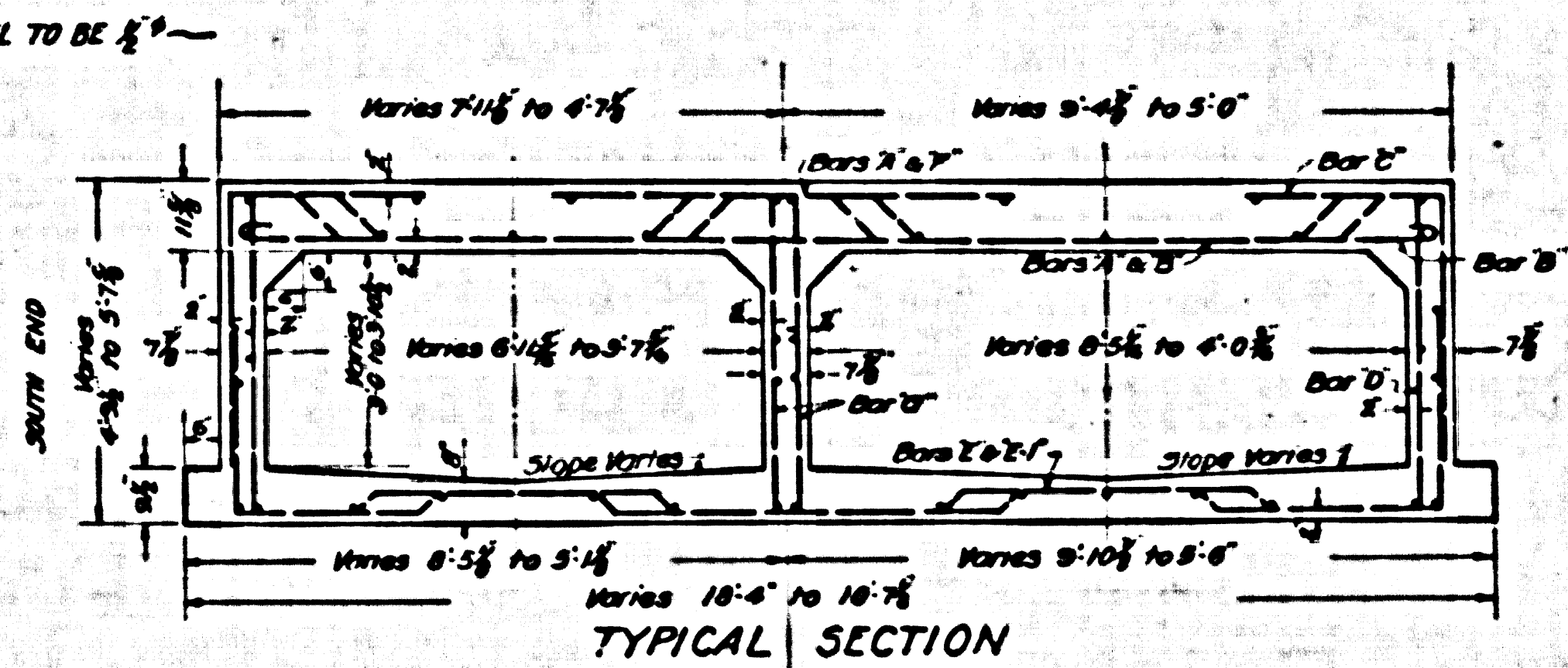
BAR F - #4 @ 12" C.C. - Length Variable.

BAR G - #4 @ 10" C.C. - Length Variable.

BAR H - #4 @ 10" C.C. - Length Variable.

BAR I - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

See BOX SECTION V for steel arrangement in Top Floor Slabs
SINGLE BOX SECTION TO BE USED FROM STATION 170+53.58 TO STATION 170+63.58 SCALE 1/2"=1'



TYPICAL SECTION

BAR A - #4 @ 16" C.C. - Length Variable. Alternate long and short ends.

BAR B - #4 @ 24" C.C. - Length Variable.

BAR C - #4 @ 8" C.C. - Length 6'-0"

BAR D - #4 @ 10" C.C. - Length Variable.

BAR E - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR F - #4 @ 12" C.C. - Length Variable.

BAR G - #4 @ 10" C.C. - Length Variable.

BAR H - #4 @ 10" C.C. - Length Variable.

BAR I - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR J - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR K - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR L - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR M - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR N - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR O - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR P - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR Q - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR R - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR S - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR T - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR U - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR V - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

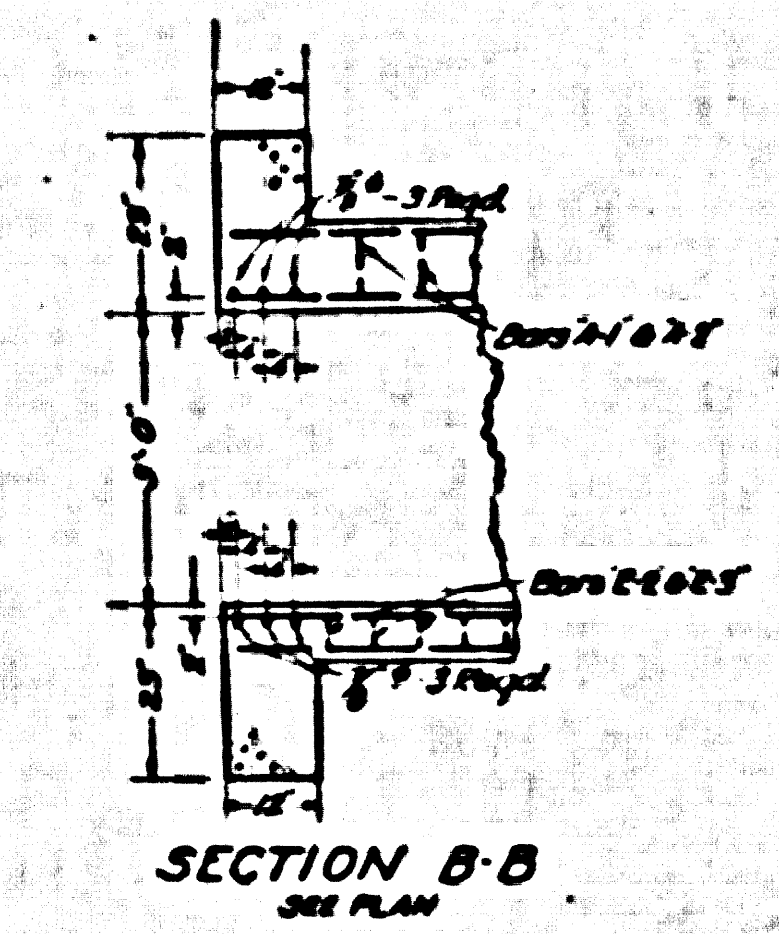
BAR W - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR X - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

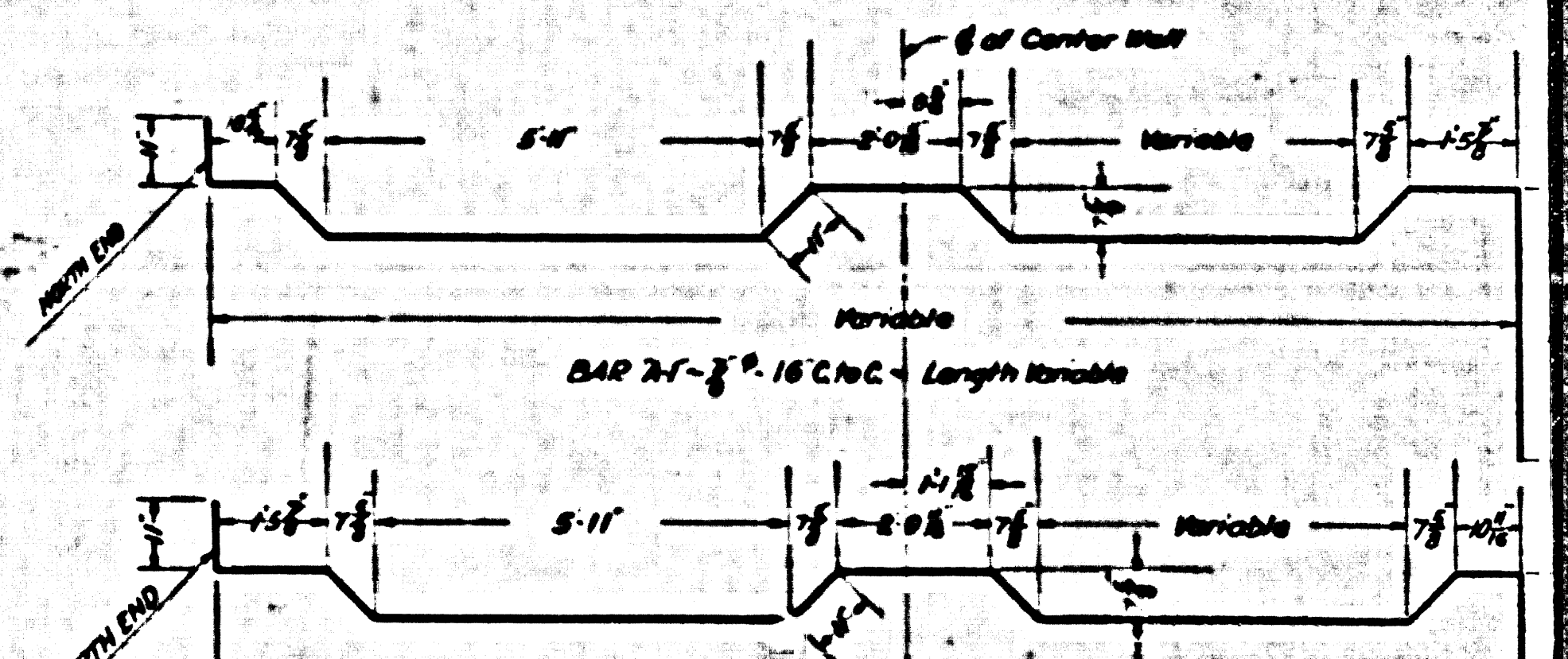
BAR Y - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR Z - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

DOUBLE BOX SECTION TO BE USED FROM STATION 170+03.85 TO STATION 170+53.85 SCALE 1/2"=1'



SECTION B-B



BAR A - #4 @ 16" C.C. - Length Variable. Alternate long and short ends.

BAR B - #4 @ 24" C.C. - Length Variable.

BAR C - #4 @ 8" C.C. - Length 6'-0"

BAR D - #4 @ 10" C.C. - Length Variable.

BAR E - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR F - #4 @ 12" C.C. - Length Variable.

BAR G - #4 @ 10" C.C. - Length Variable.

BAR H - #4 @ 10" C.C. - Length Variable.

BAR I - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR J - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR K - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR L - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR M - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR N - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR O - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR P - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR Q - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR R - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR S - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR T - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR U - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR V - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR W - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR X - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR Y - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

BAR Z - #4 @ 8" C.C. - Length Variable. Alternate long and short ends.

SPECIAL STRUCTURE NO. 12
STATION 170+03.85 TO STATION 170+63.85- LOMITA TRUNK
SCALES AS SHOWN

CSB-1165-7
A5 OF A8

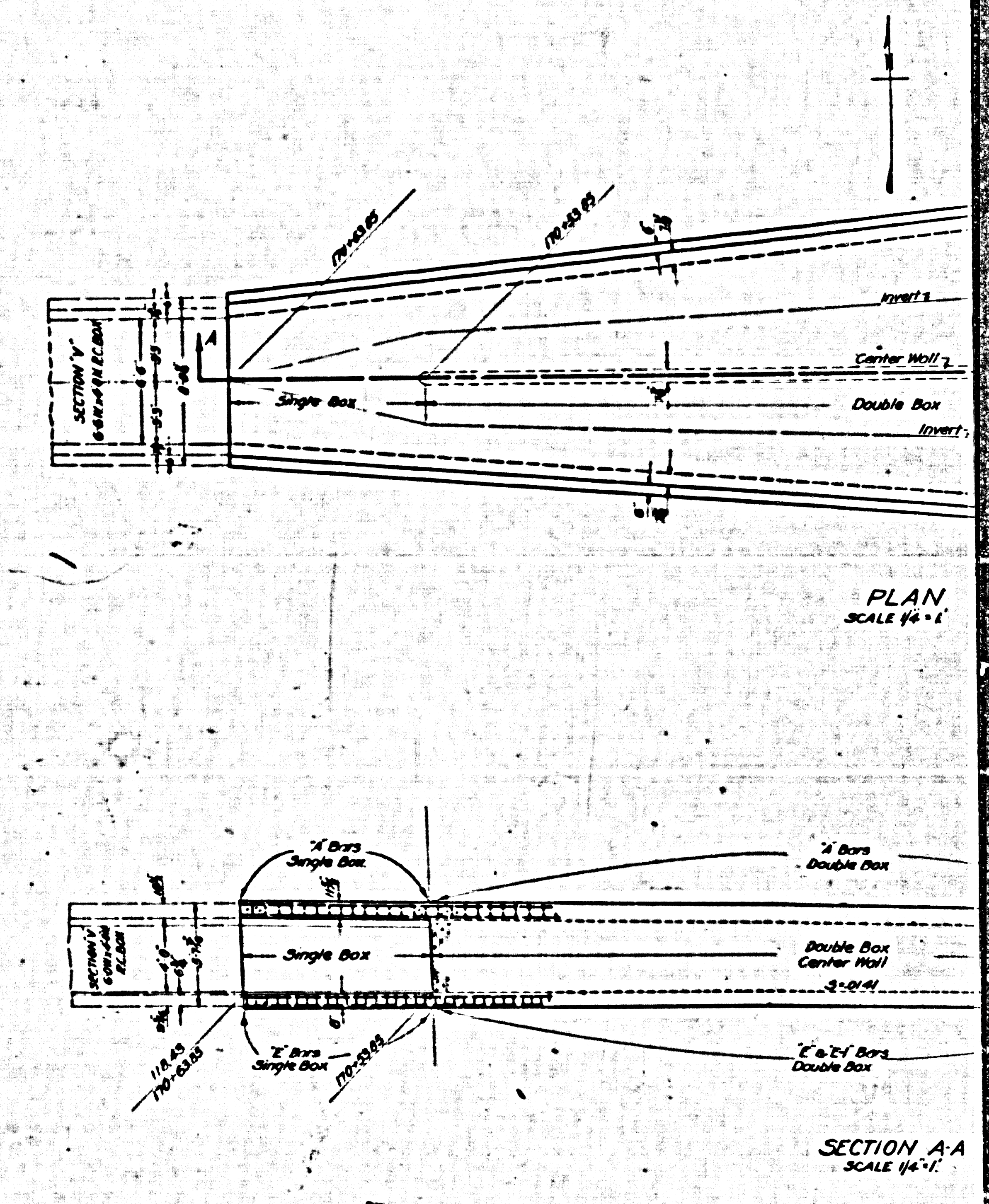
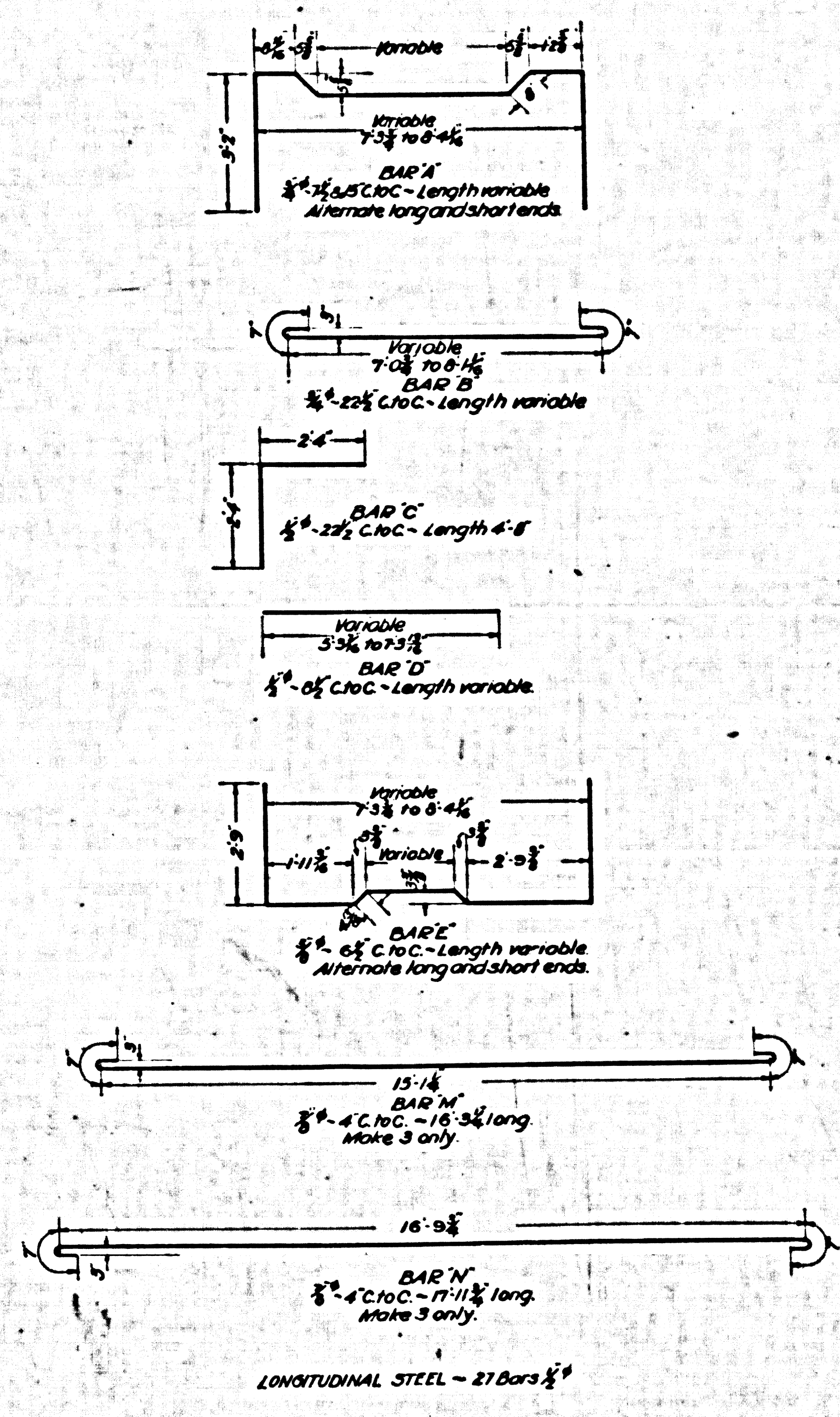
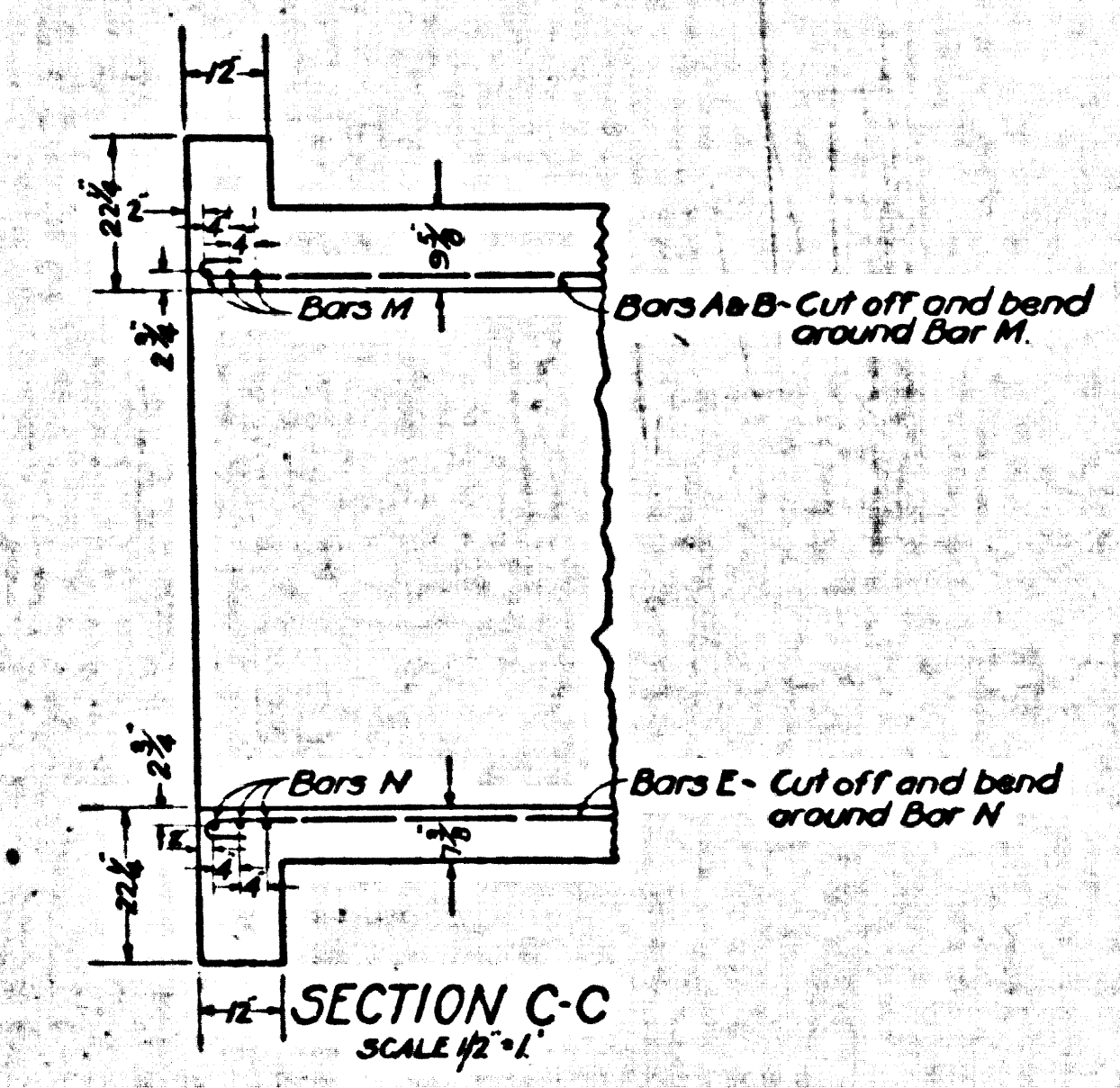
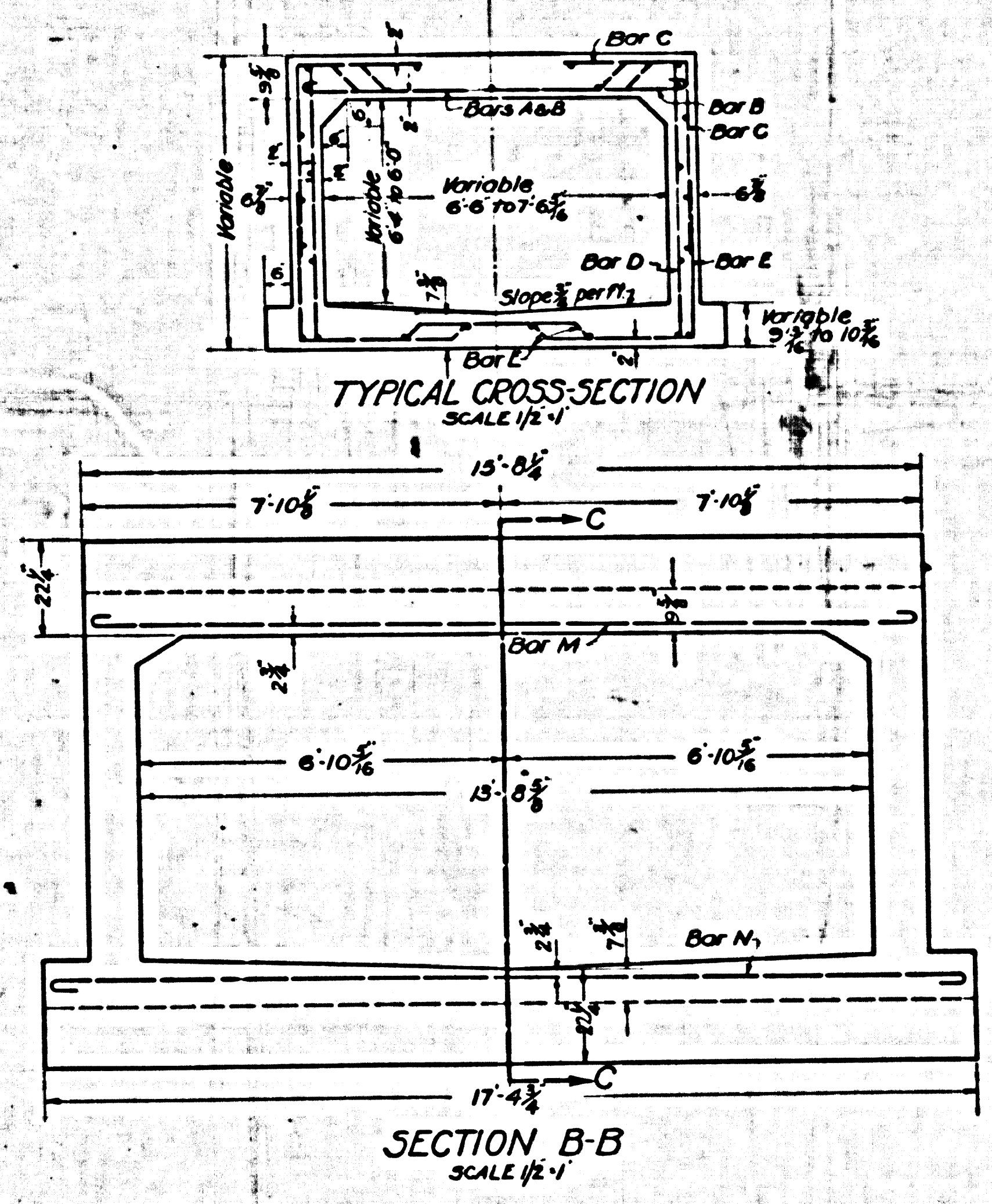
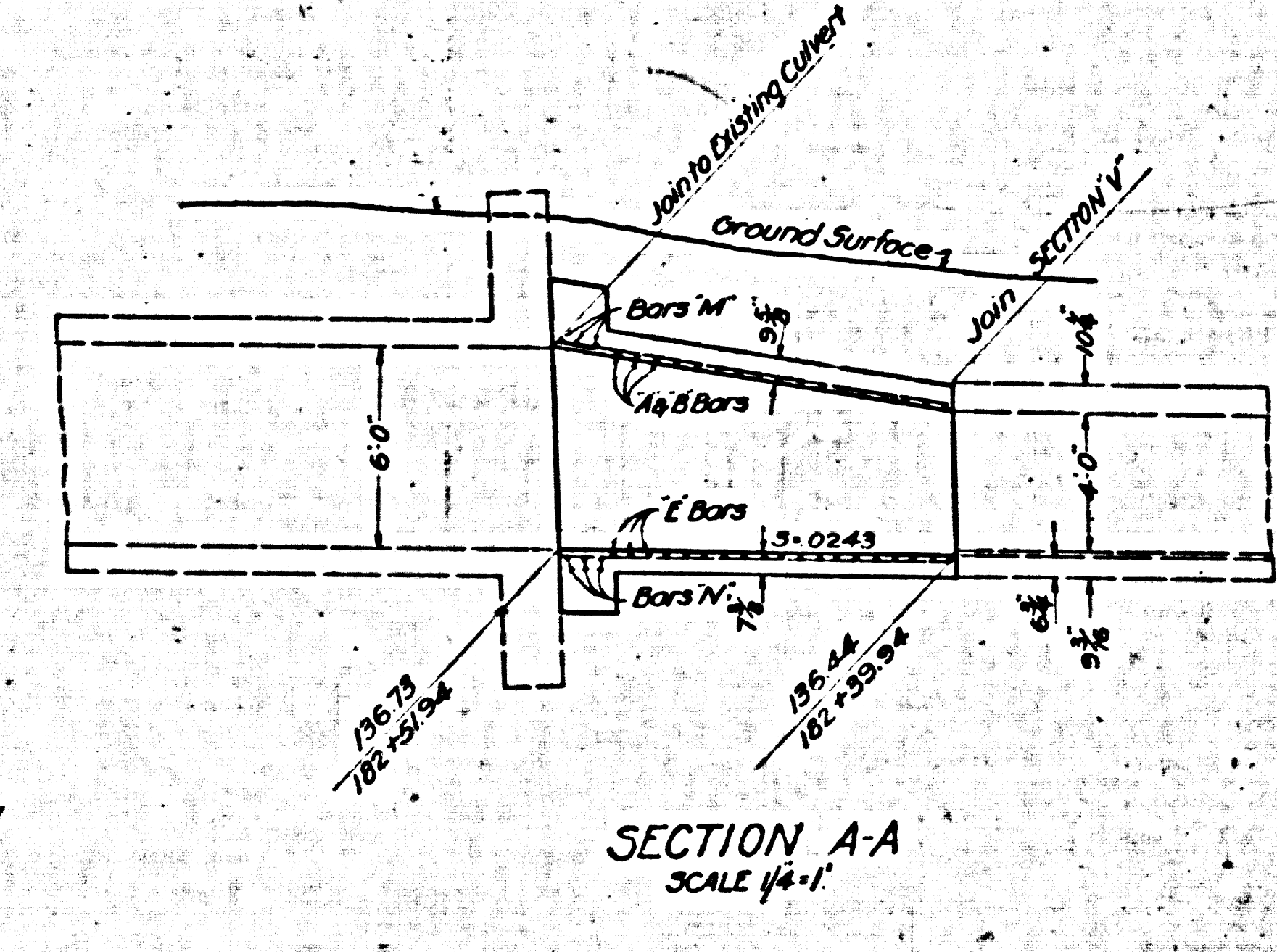
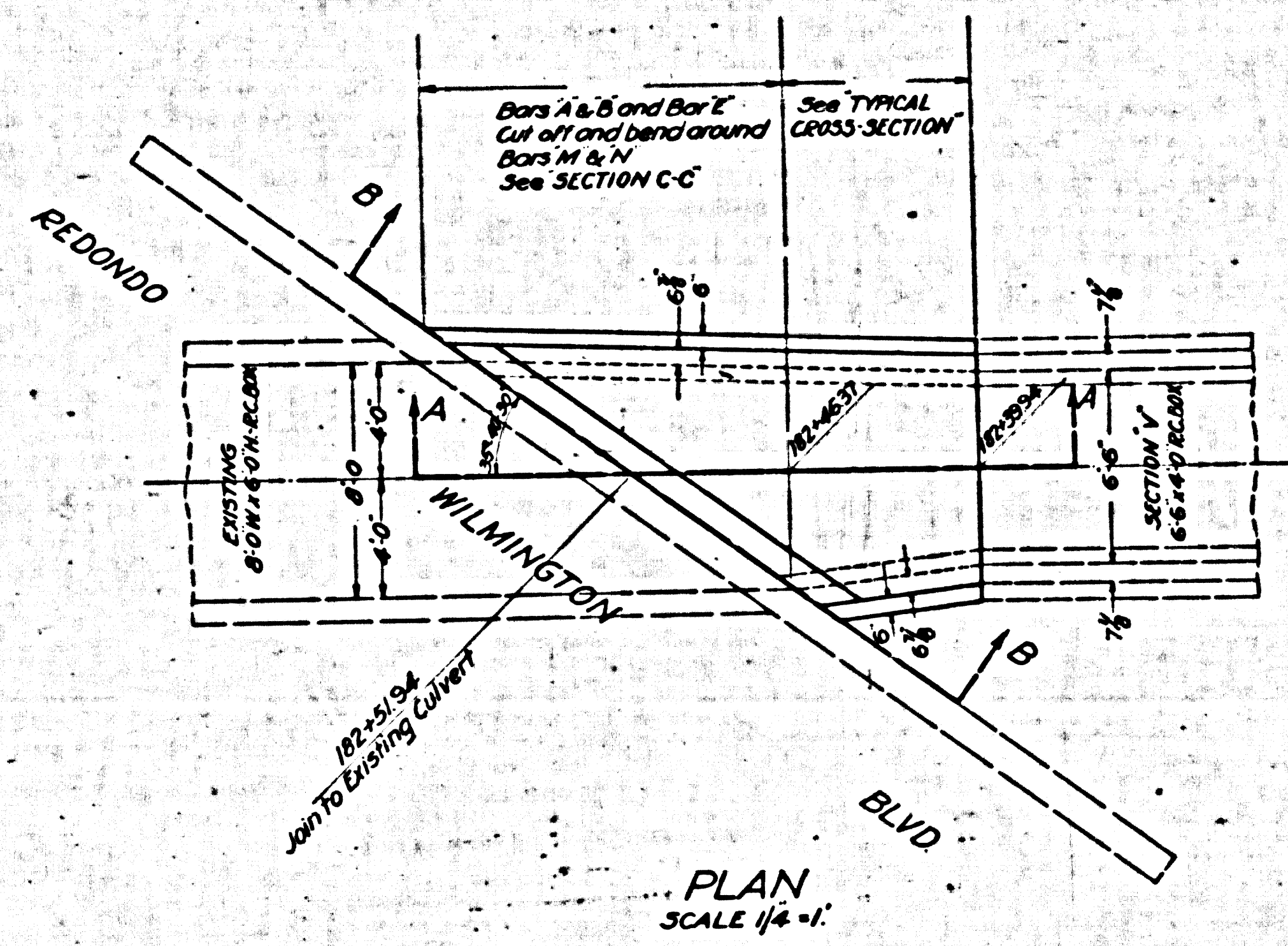
$5 \frac{1}{2} \times \frac{1}{2}$
 BAR A
 15' 6" C.C. - 15' 8" long
 1/2" dia long and short ends

 $8 \times \frac{1}{2}$
 BAR B
 18' C.C. - 9' 7" long

 $9 \times \frac{1}{2}$
 BAR C
 9' C.C. - 5' 8" long

 $6 \times \frac{1}{2}$
 BAR D
 6' C.C. - 6' 11" long

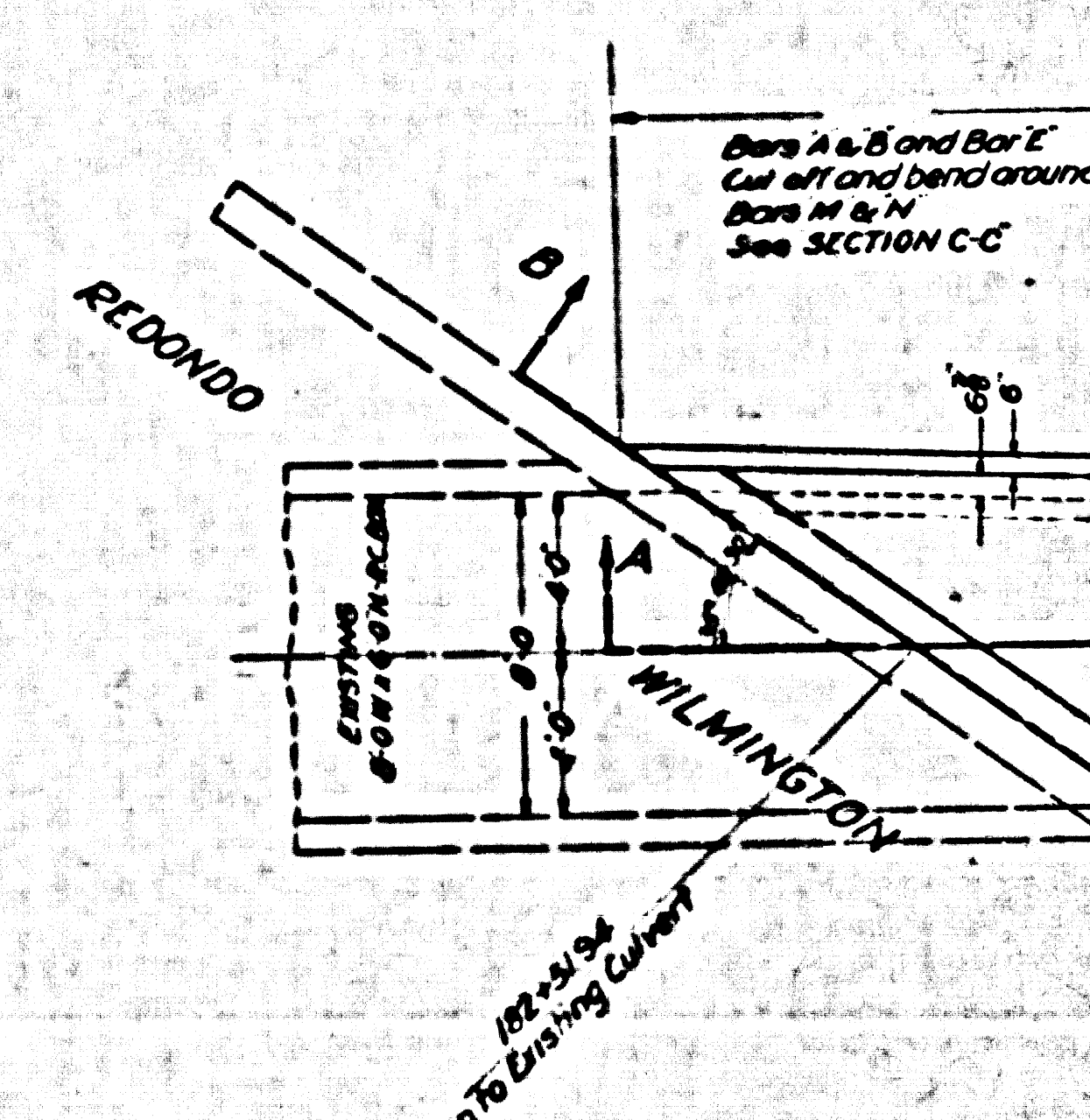
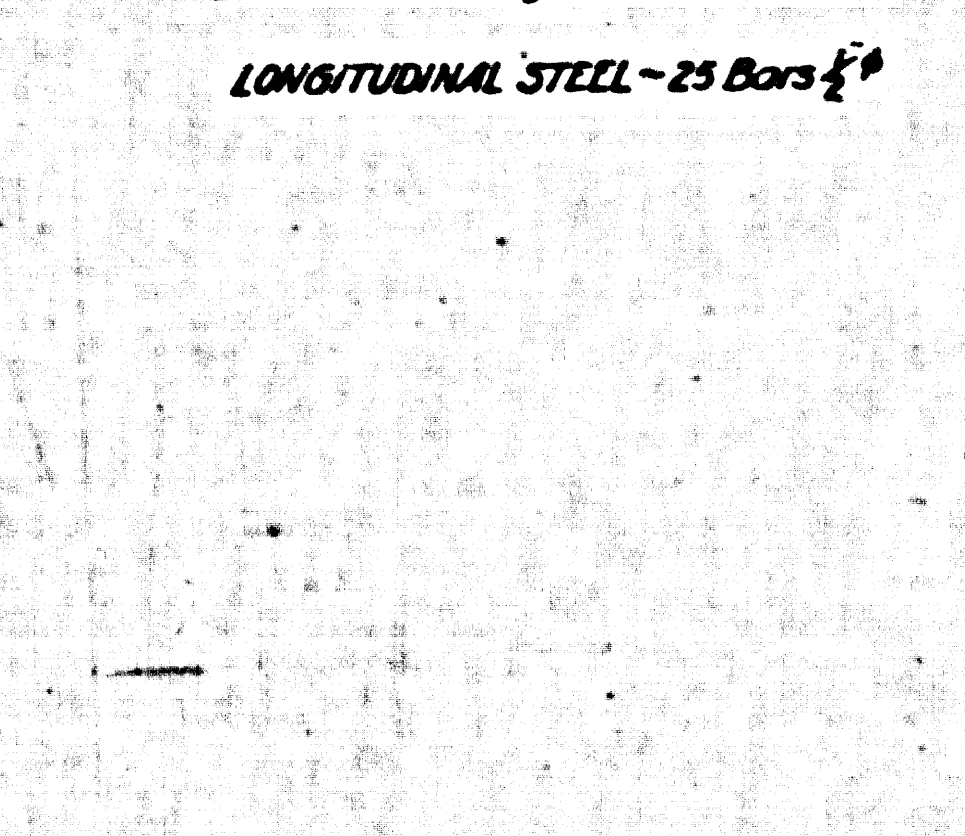
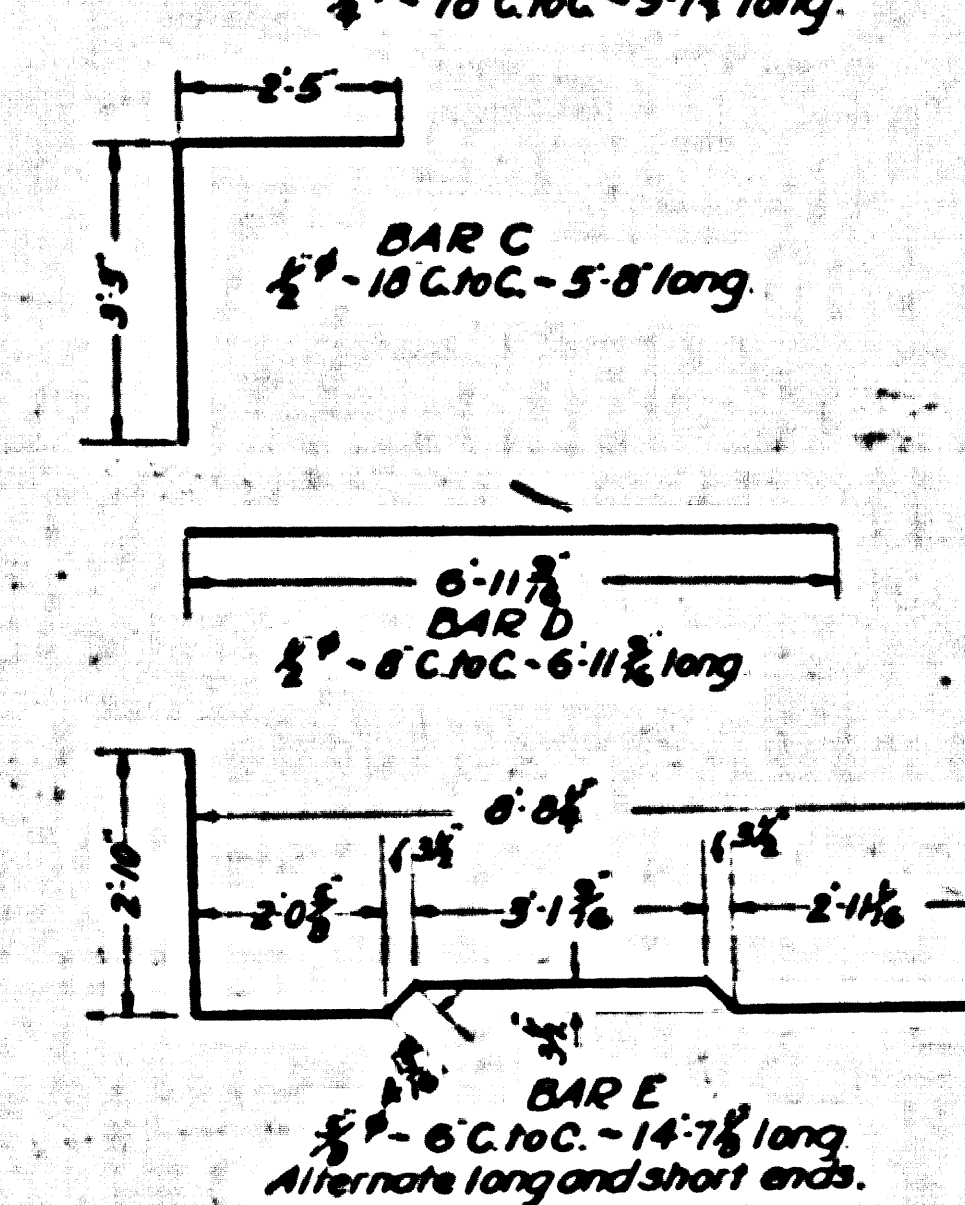
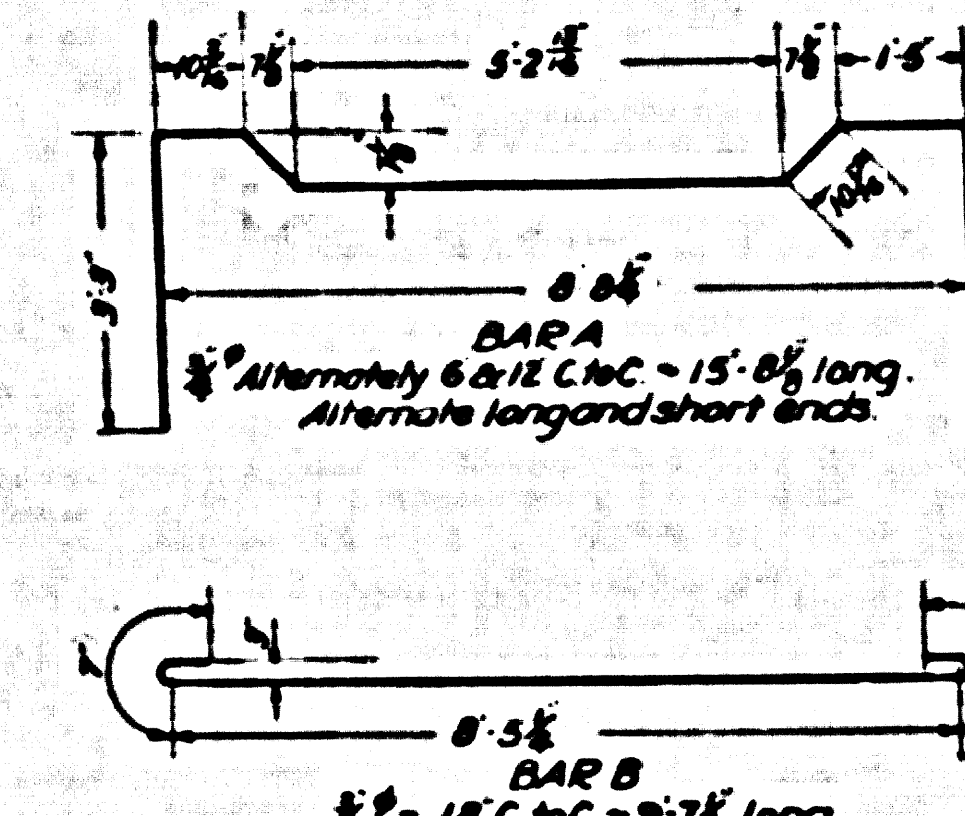
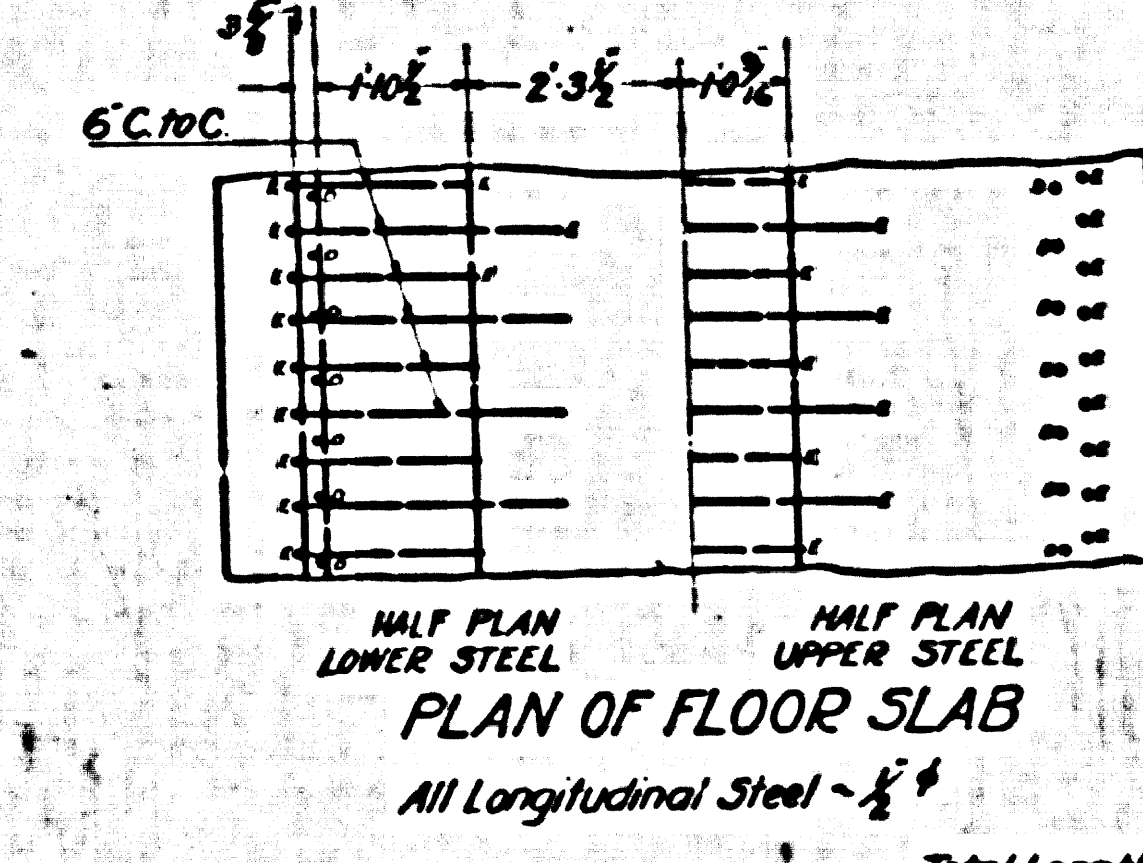
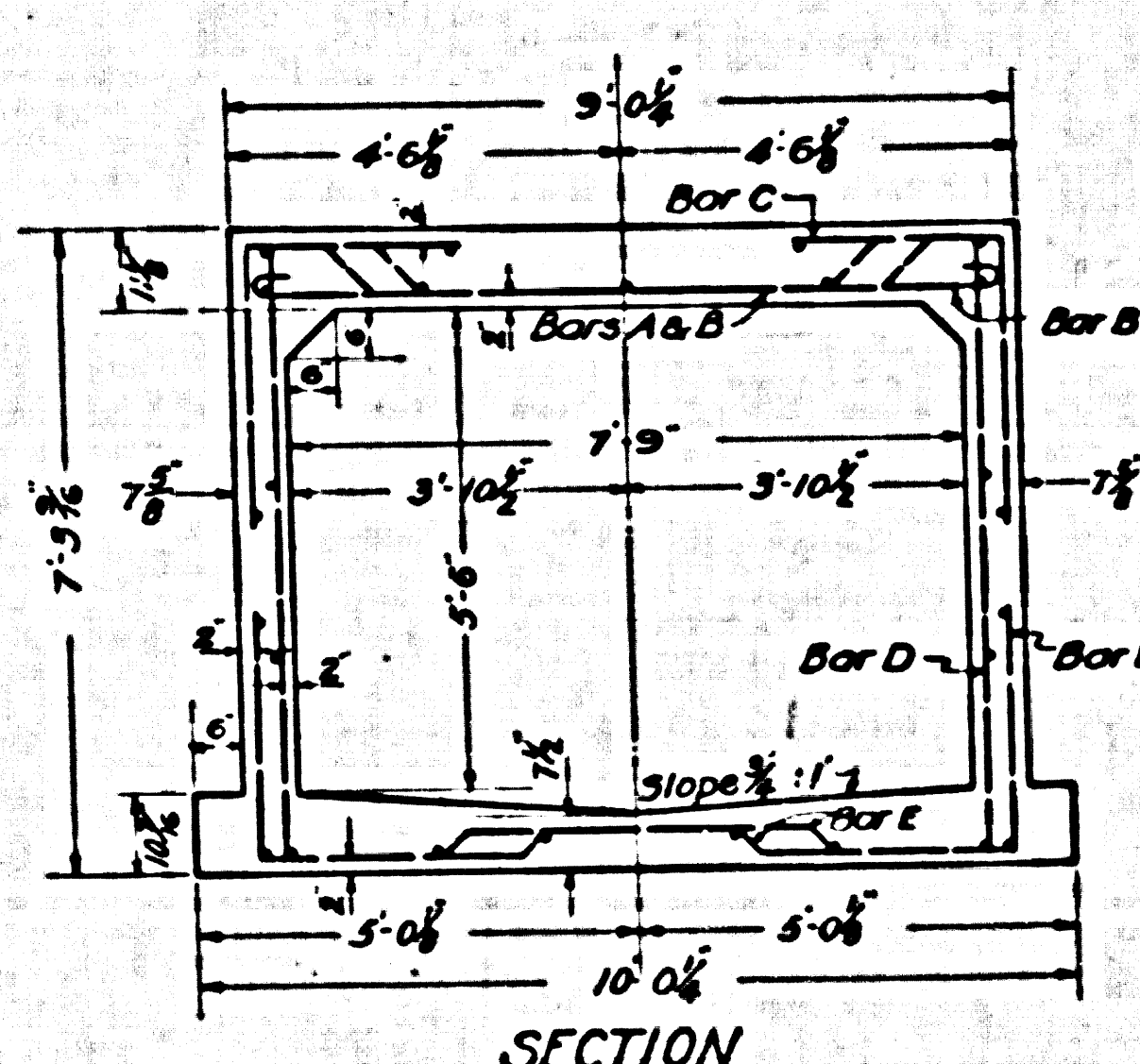
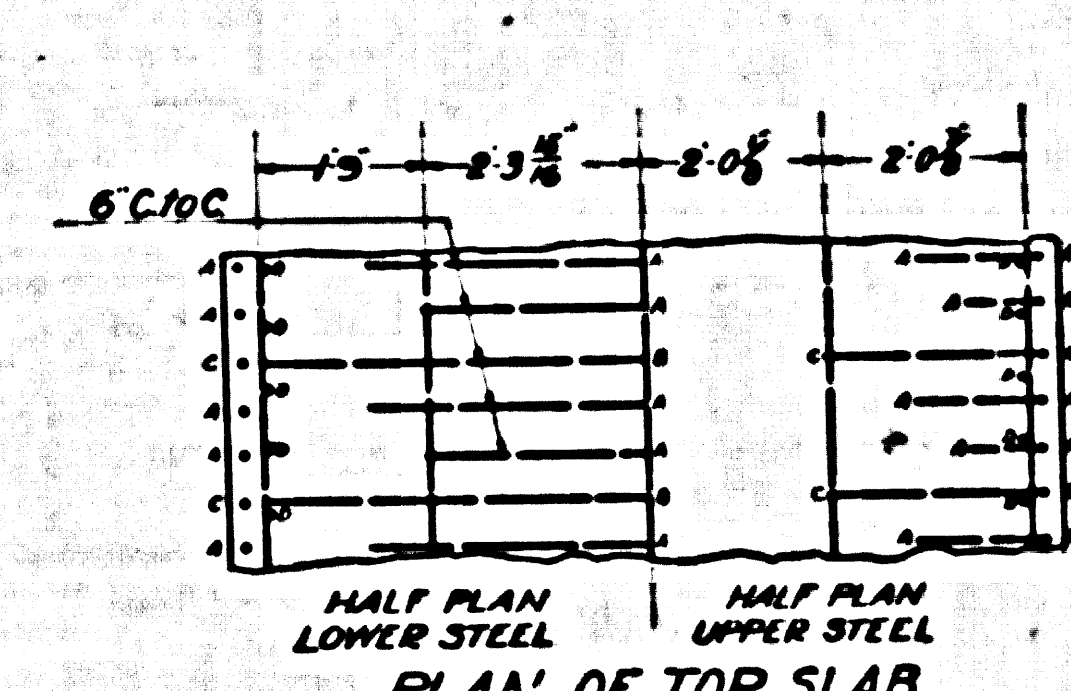
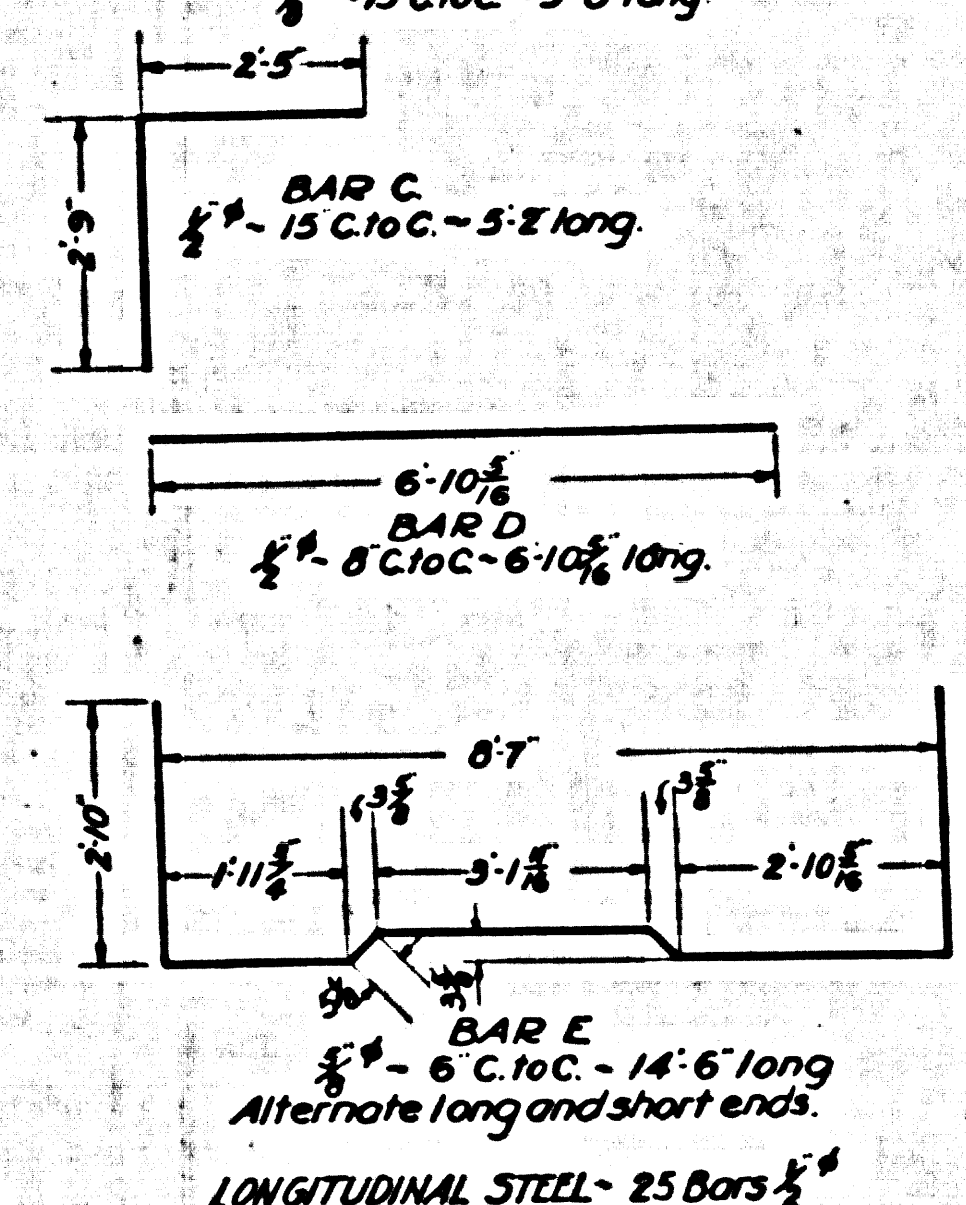
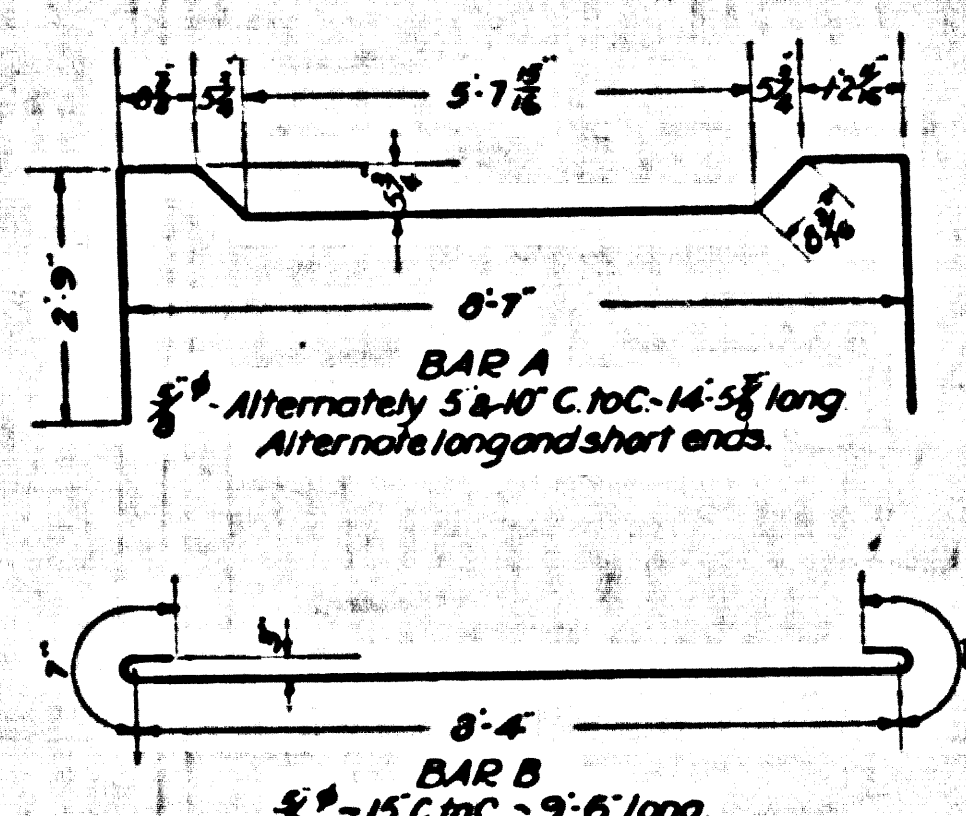
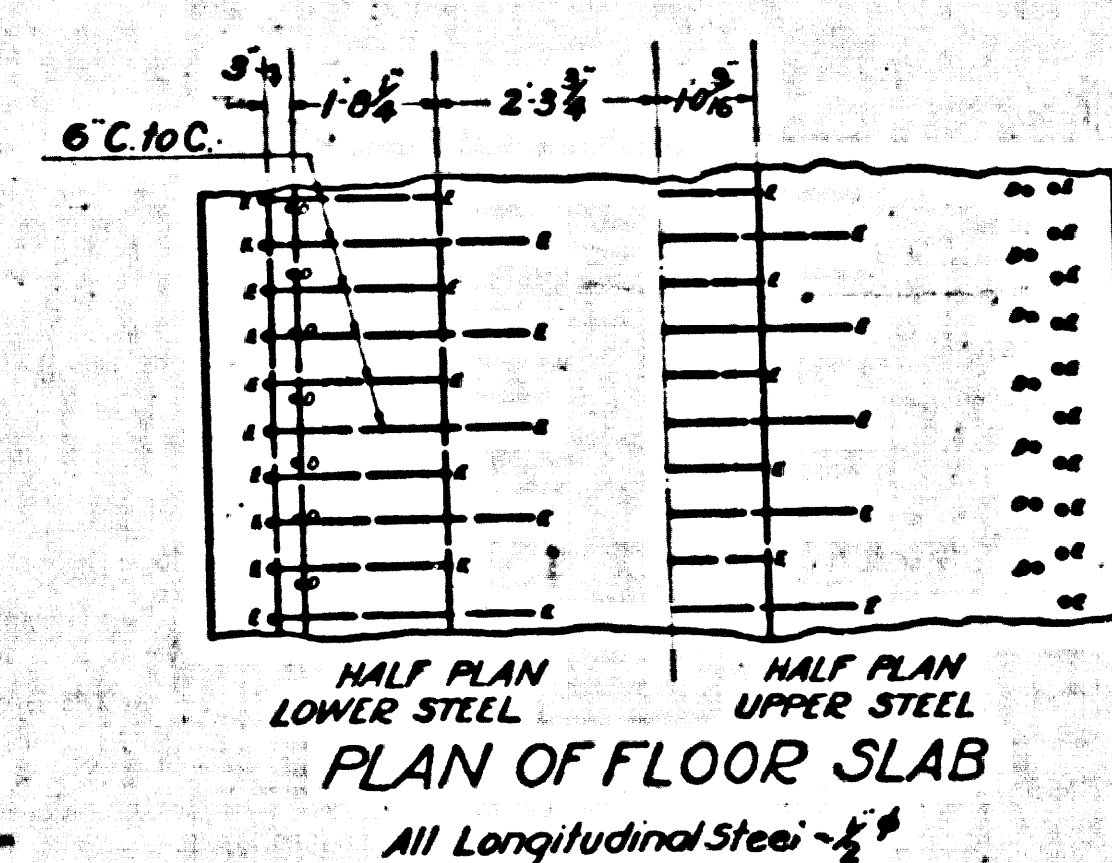
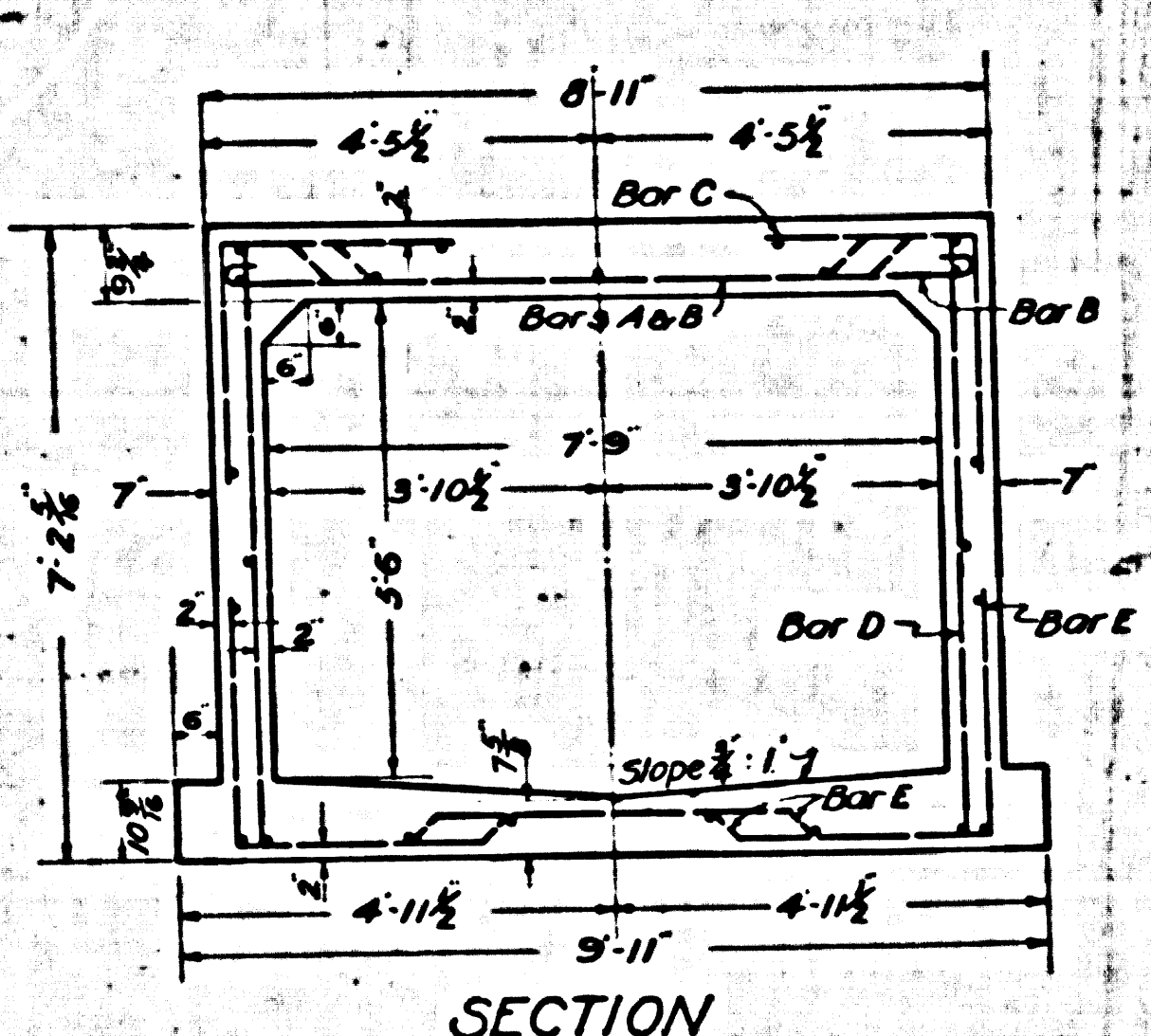
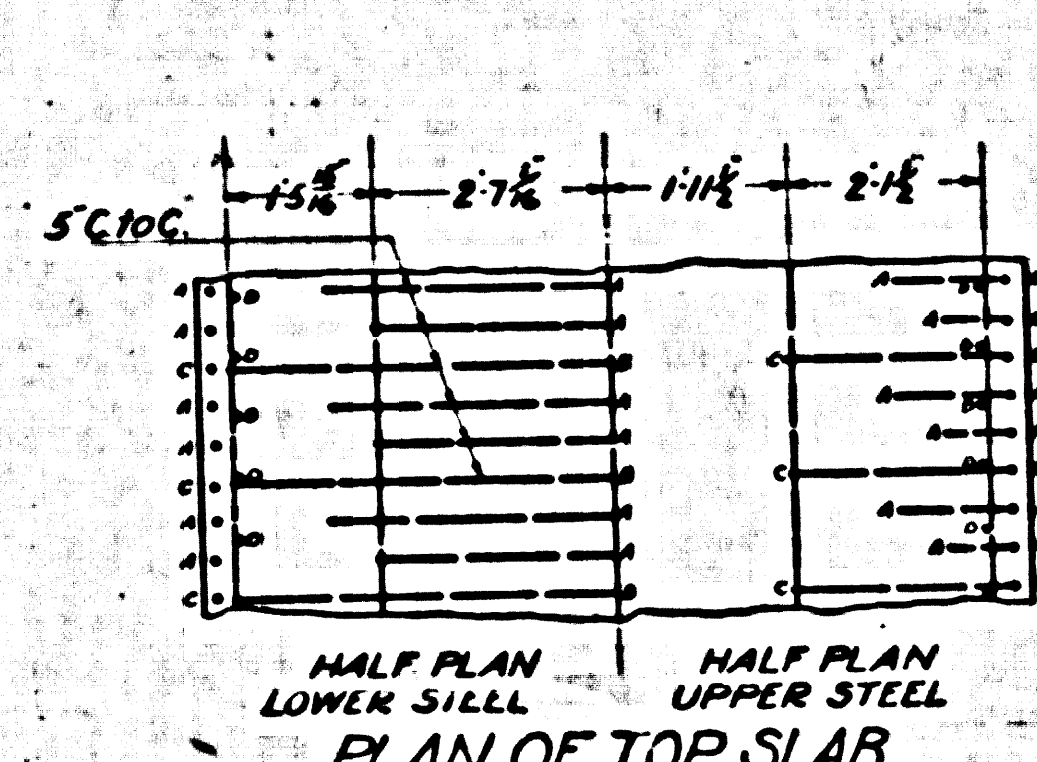
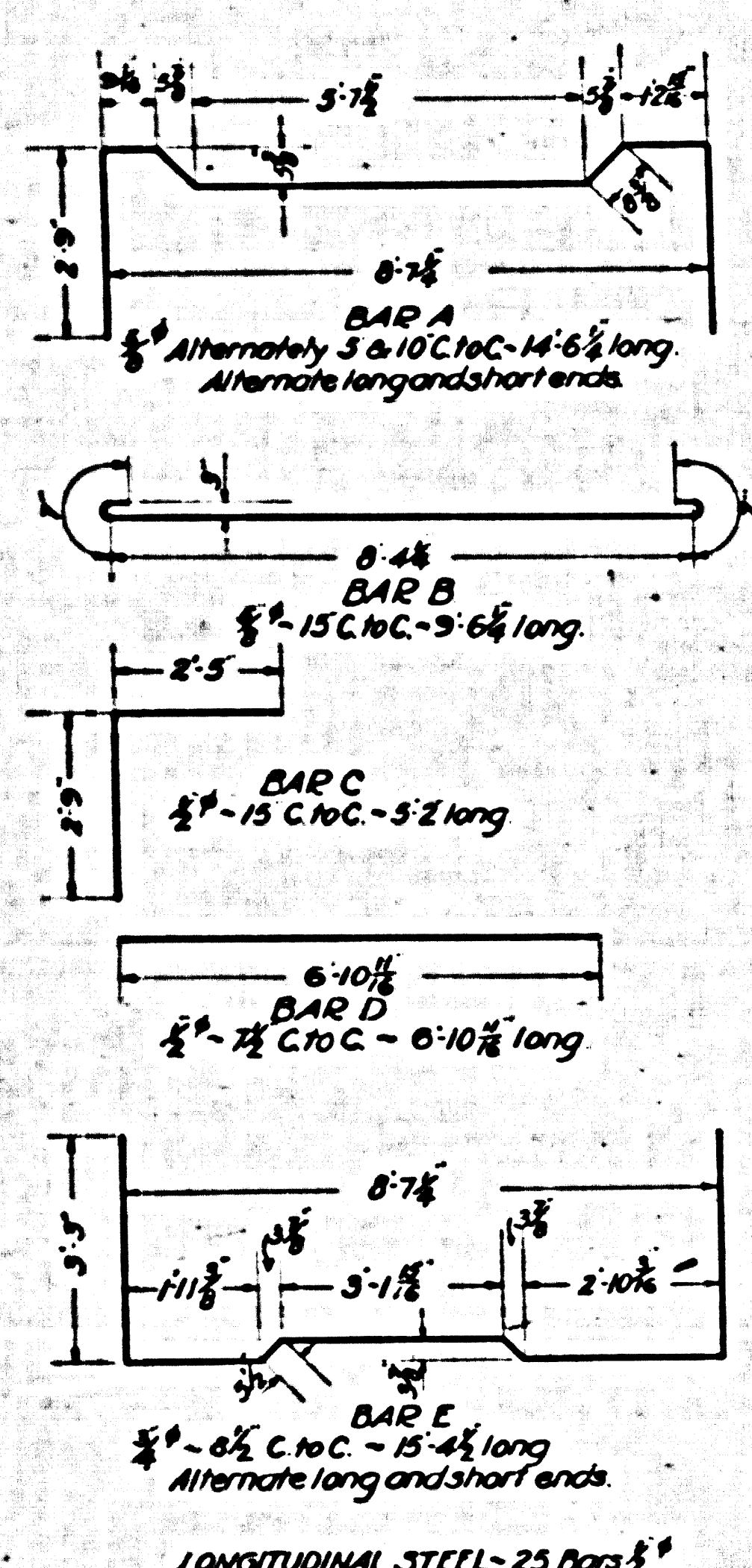
 $8 \times \frac{1}{2}$
 $5 \times \frac{1}{2}$
 $2 \times \frac{1}{2}$
 BAR E
 6' C.C. - 14' 7" long
 1/2" dia long and short ends
 DUAL STEEL - 25 Bars $\frac{1}{2}$ "



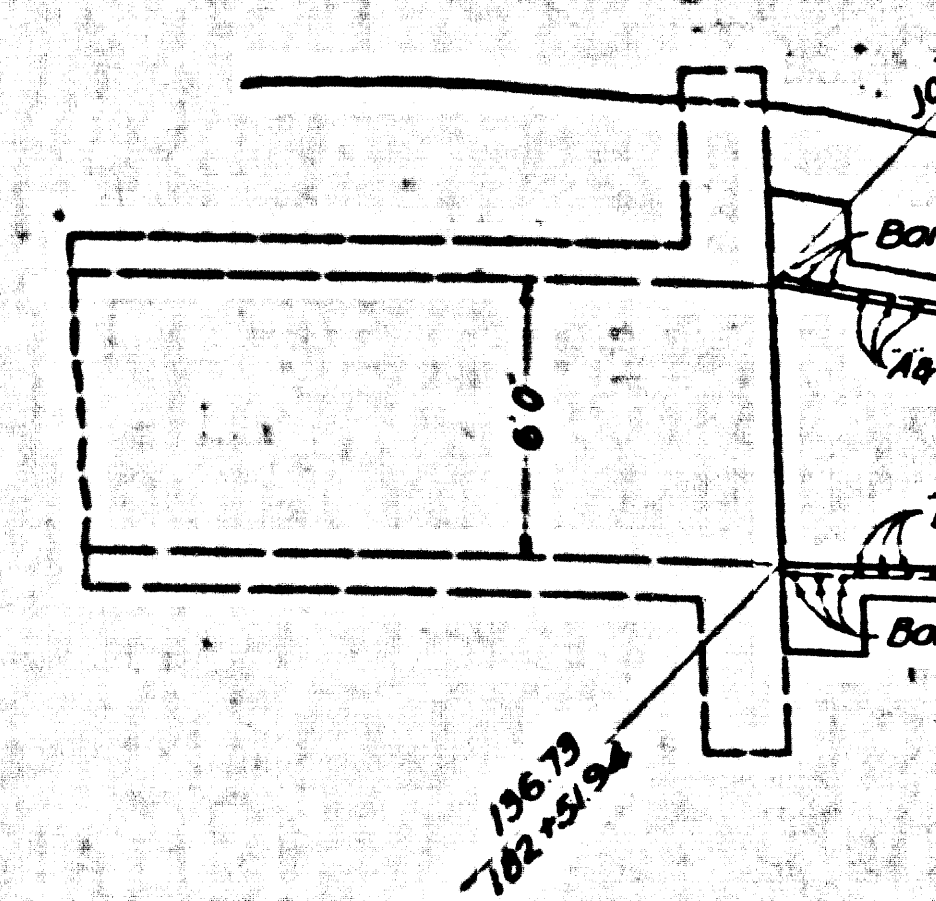
7'9" x 5'6"
 LOMITA TRUNK

SPECIAL STRUCTURE No 13
 STATION 182+39.94 TO STATION 182+51.94 - LOMITA TRUNK
 SCALES AS SHOWN

CSB-1165-7
 A60FA8



PLAN SCALE 1/4"



SECT. SCALE 1/2"

REINFORCED CONCRETE BOX 7'-9" x 5'-6"
 SECTION "U"
 FROM STATION 152+00.00 OF LOMITA TRUNK
 SCALE 1/2" = 1'

REINFORCED CONCRETE BOX 7'-9" x 5'-6"
 SECTION "T"
 FROM STATION 139+50 TO STATION 152+00 OF LOMITA TRUNK
 FROM STATION 144+50 TO STATION 154+10 OF LOMITA TRUNK
 SCALE 1/2" = 1'

REINFORCED CONCRETE BOX 7'-9" x 5'-6"
 SECTION "S"
 FROM STATION 130+35 TO STATION 139+50 OF LOMITA TRUNK
 SCALE 1/2" = 1'

CSB-1165-7
A 7 OF A 8

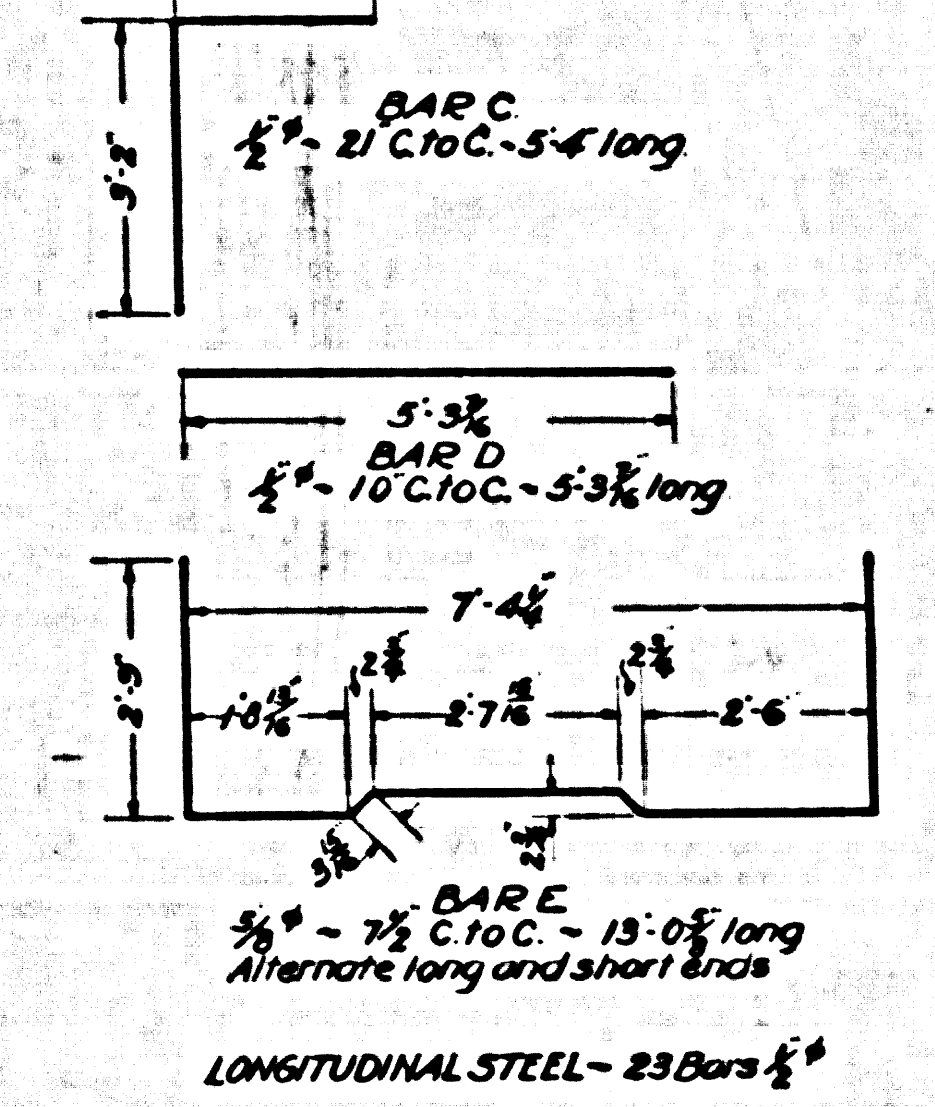
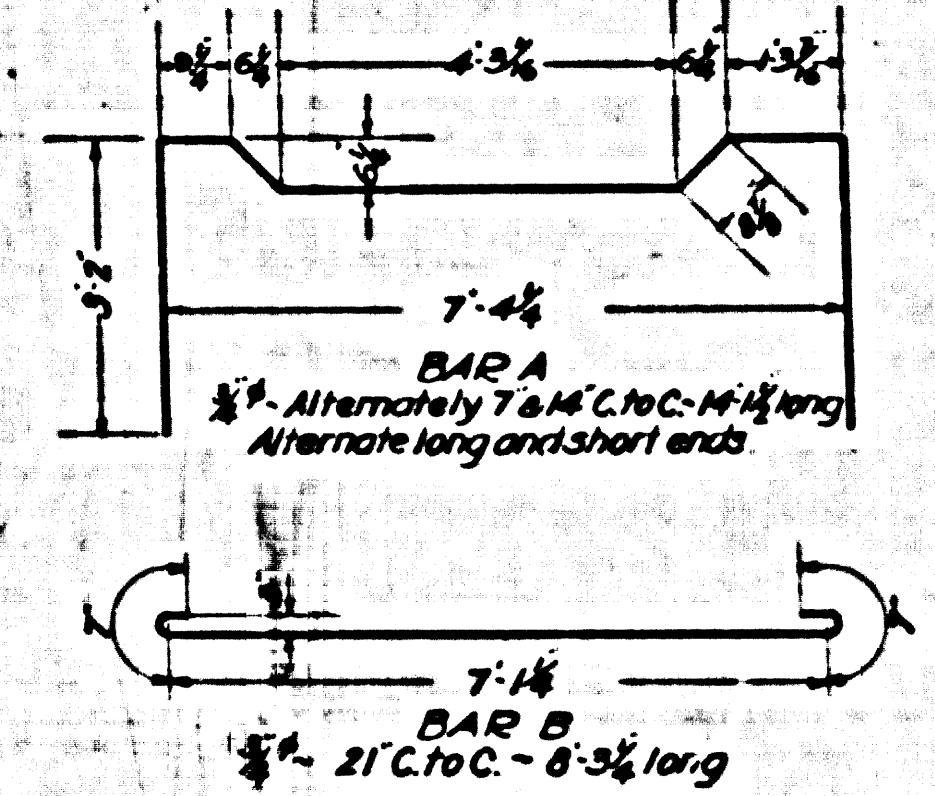
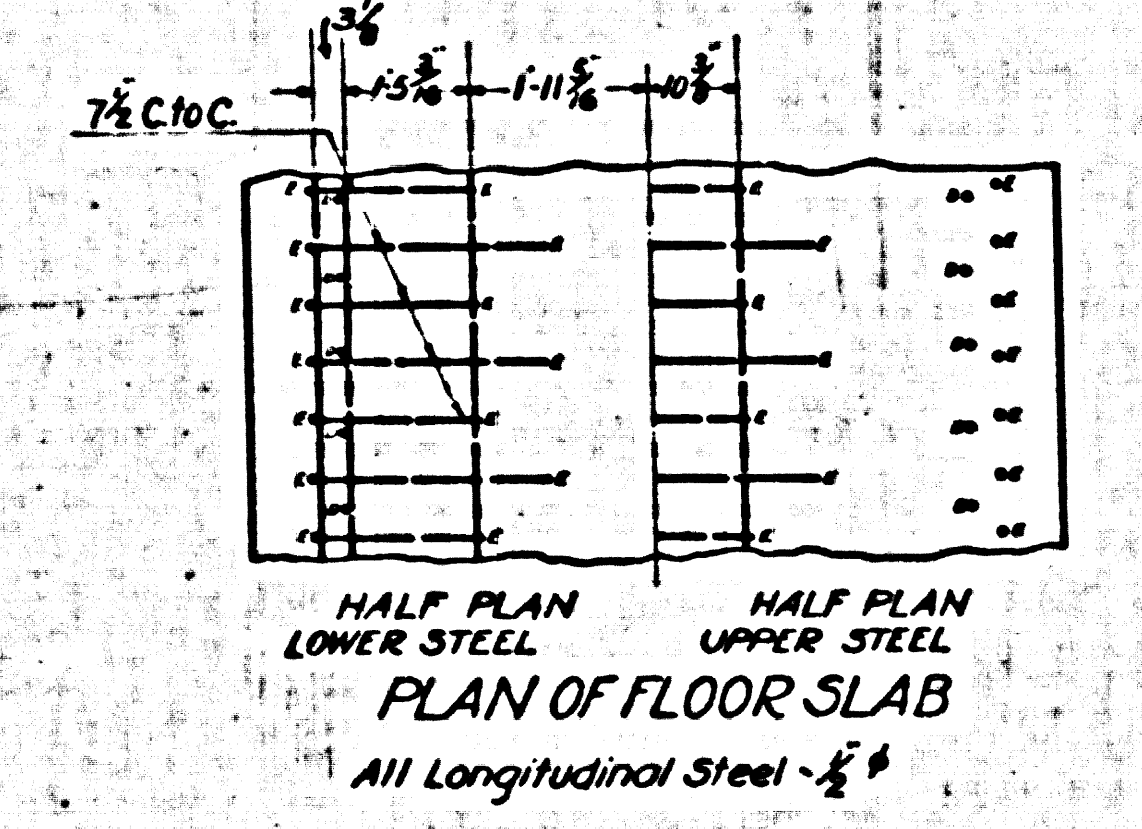
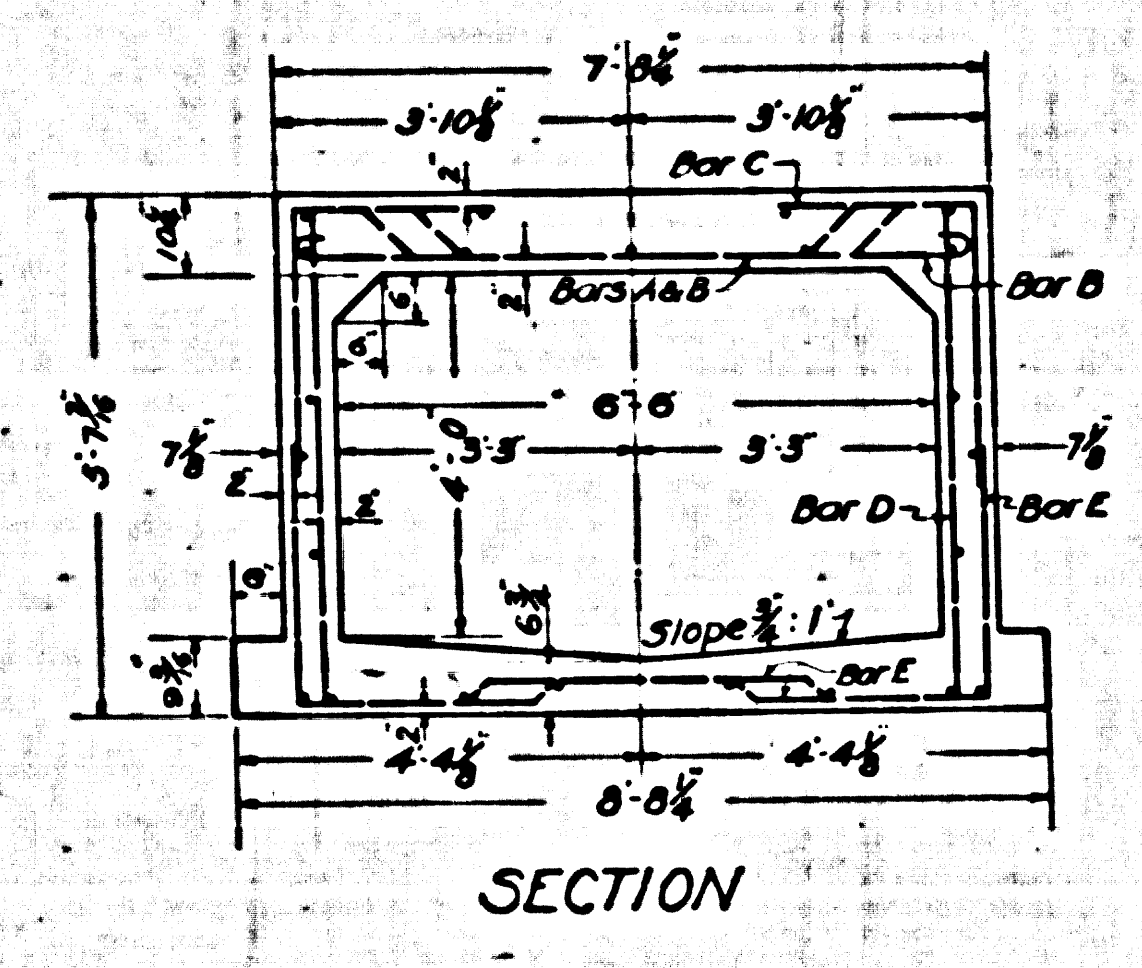
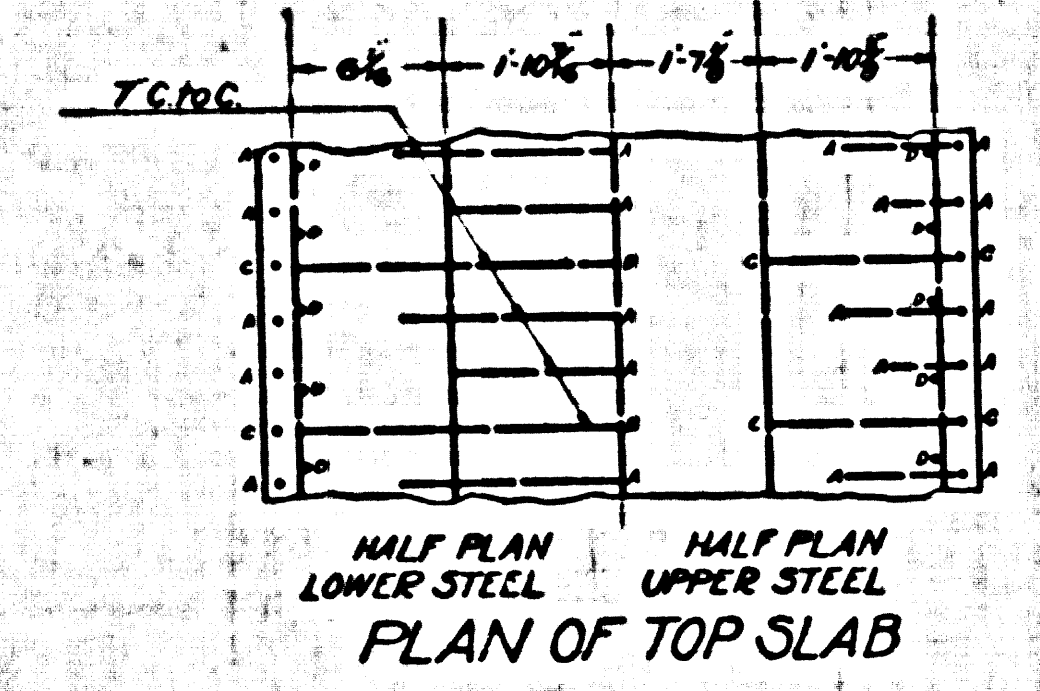
0.8201 Cu Yds per foot
 2.7" - Total Load 126.8 Lbs per sq ft
 23.3089 Lbs per foot (on longer)
 Reinforcing Steel refer to center lines.

Total Length 710 Feet
 Class A-1 Concrete: 0.8034 Cu Yds per foot
 Reinforcing Steel: 100.0665 Lbs per foot (on longer)
 Top Slab: Cover 3" to 5" - Total Load: 123.2 Lbs per sq ft
 Dimensions to Reinforcing Steel refer to center lines.

Total Length 315 Feet
 Class A-1 Concrete: 0.9656 Cu Yds per foot
 Reinforcing Steel: 108.7867 Lbs per foot (on longer)
 Top Slab: Cover 1" to 3" - Total Load: 167.4 Lbs per sq ft
 Dimensions to Reinforcing Steel refer to center lines.

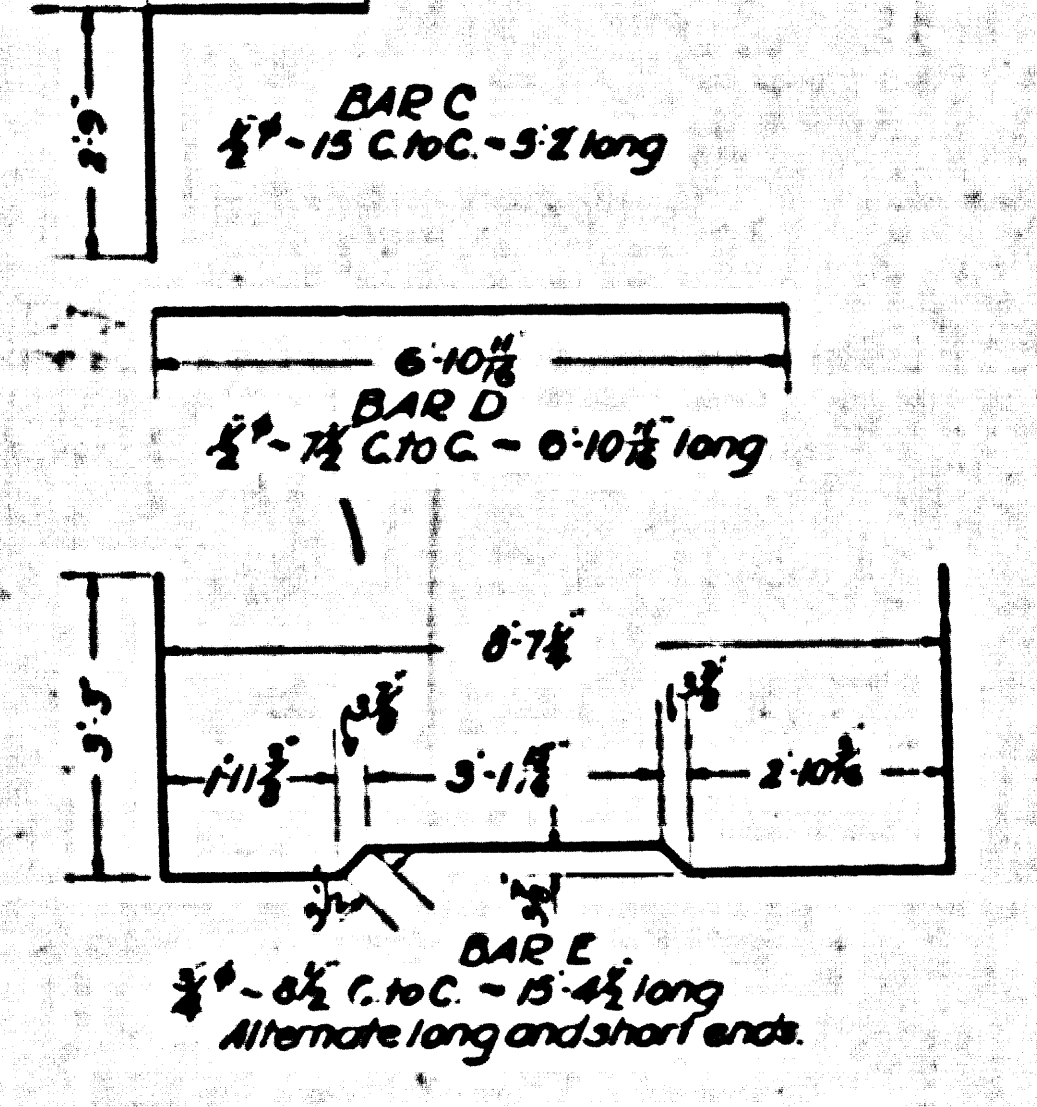
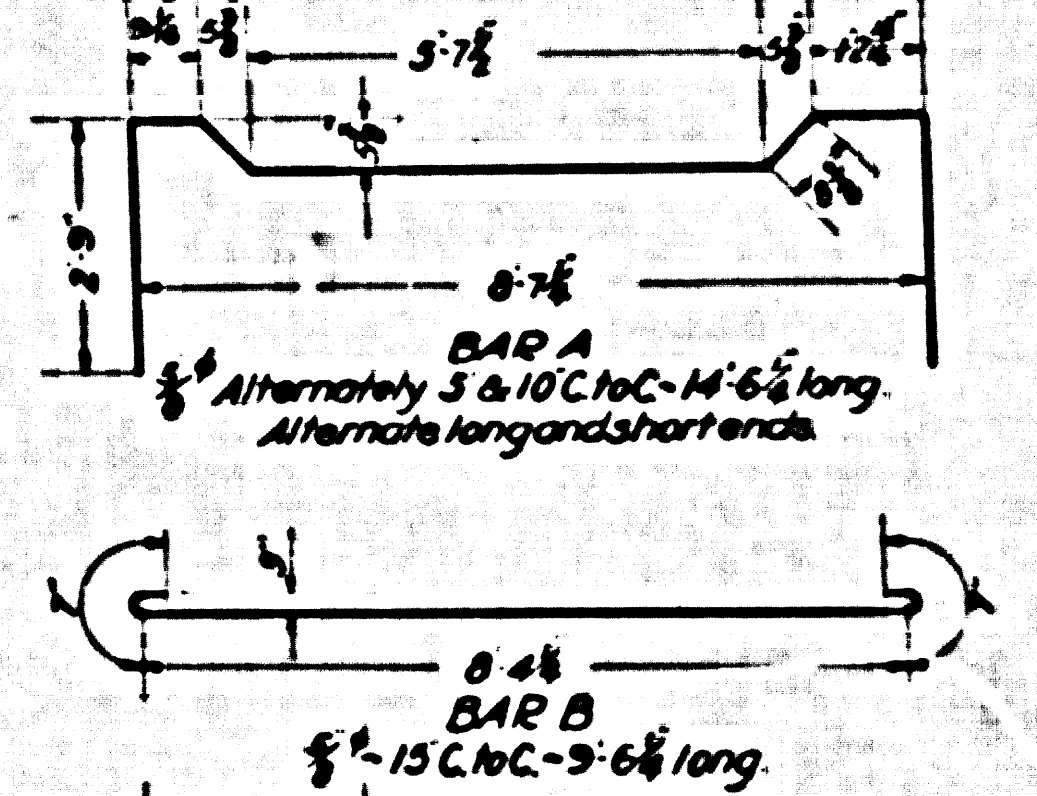
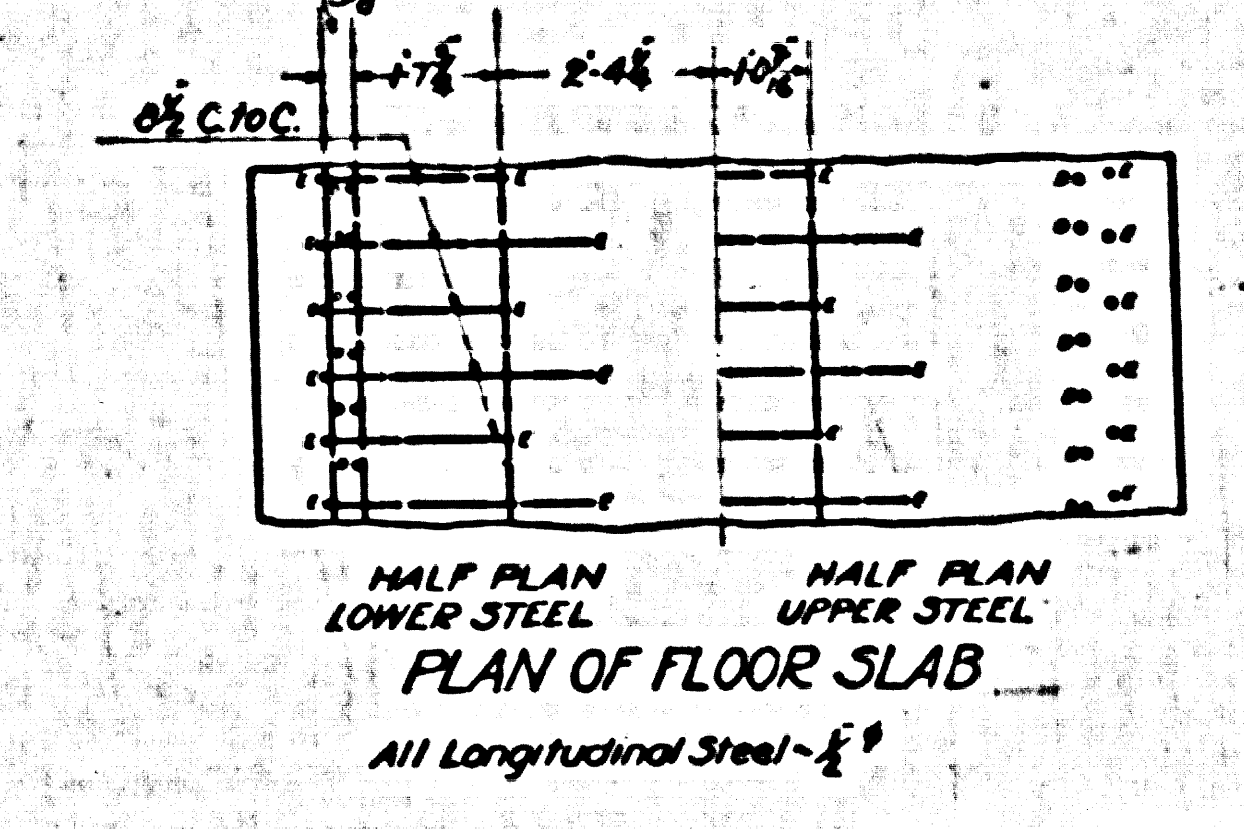
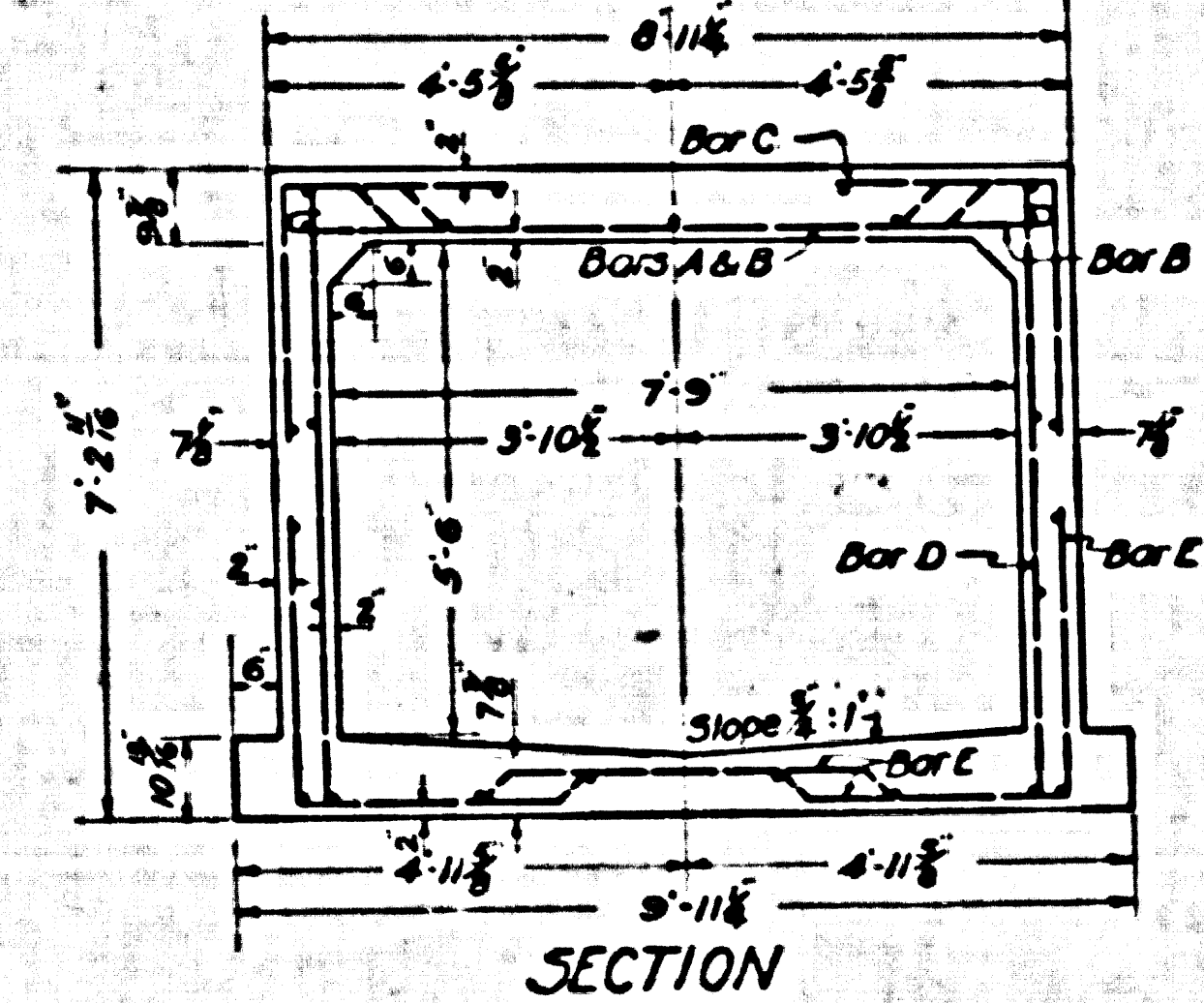
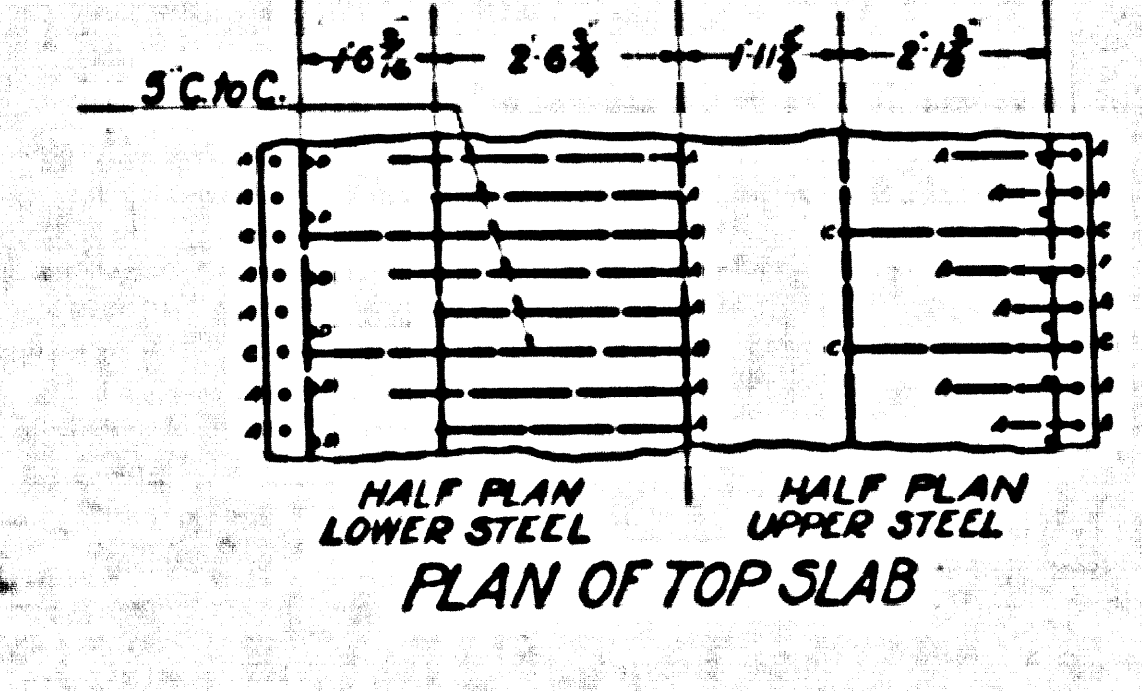
SHEET NO. 1 OF 9 SHEETS
 CONSULT SURVEYORS MAP NO. B-1103

Thin Prints to this line



Total Length: 1176.09 feet
 Class A-1 Concrete: - 0.6503 Cu Yds per foot
 Reinforcing Steel: - 82,2697 Lbs per foot (on tangent)
 Top Slab: Cover: 1" to 3" - Total Load: 1275 Lbs per sq. ft.
 Dimensions to Reinforcing Steel refer to center lines.

REINFORCED CONCRETE BOX 6'-6" x 4'-0"
SECTION "V"
 FROM STATION 170+63.85 TO STATION 182+39.94 OF LOMITA TRUNK
 SCALE 1/2"=1'

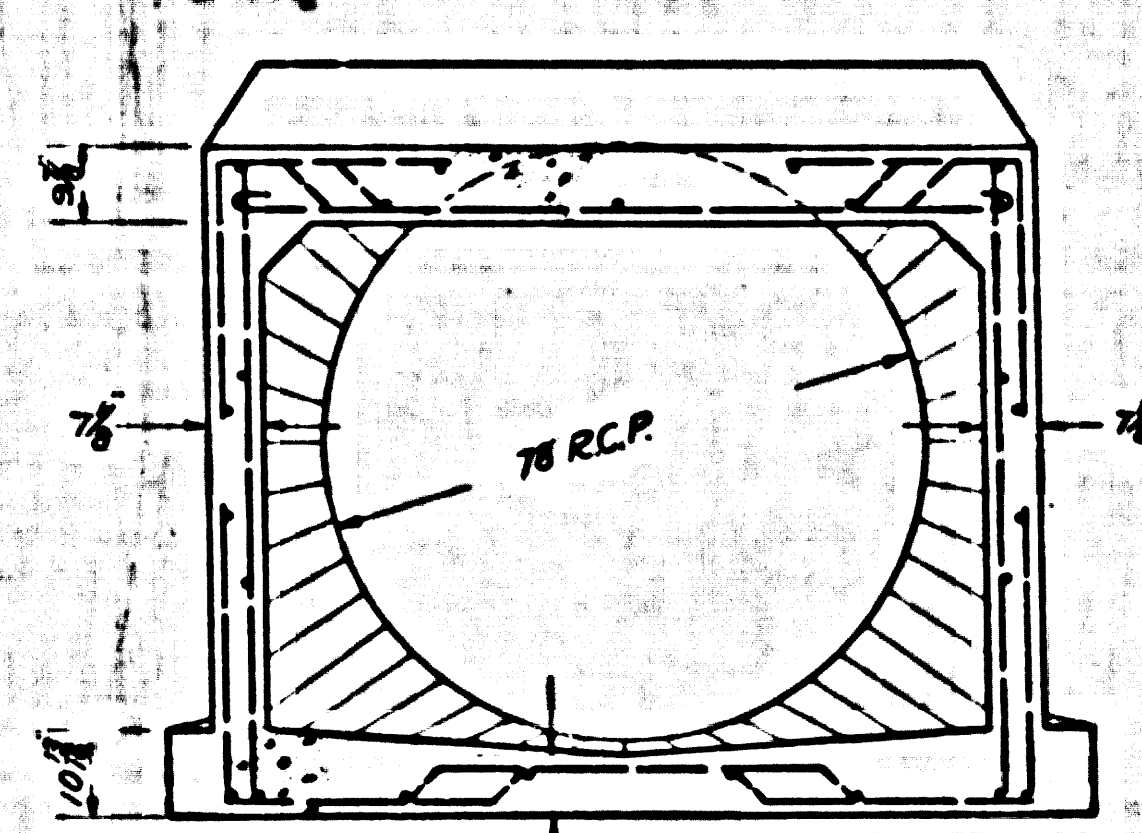
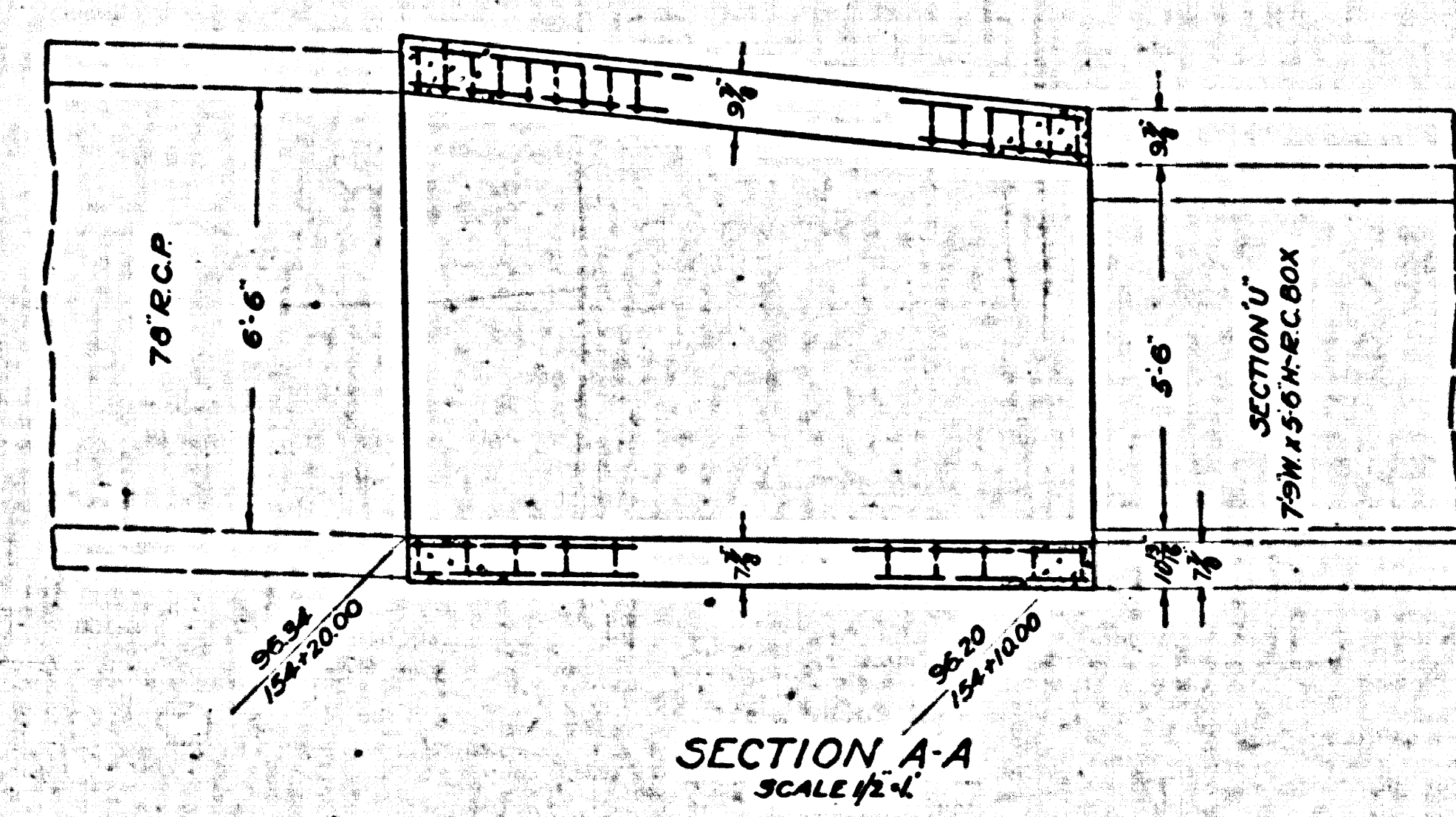
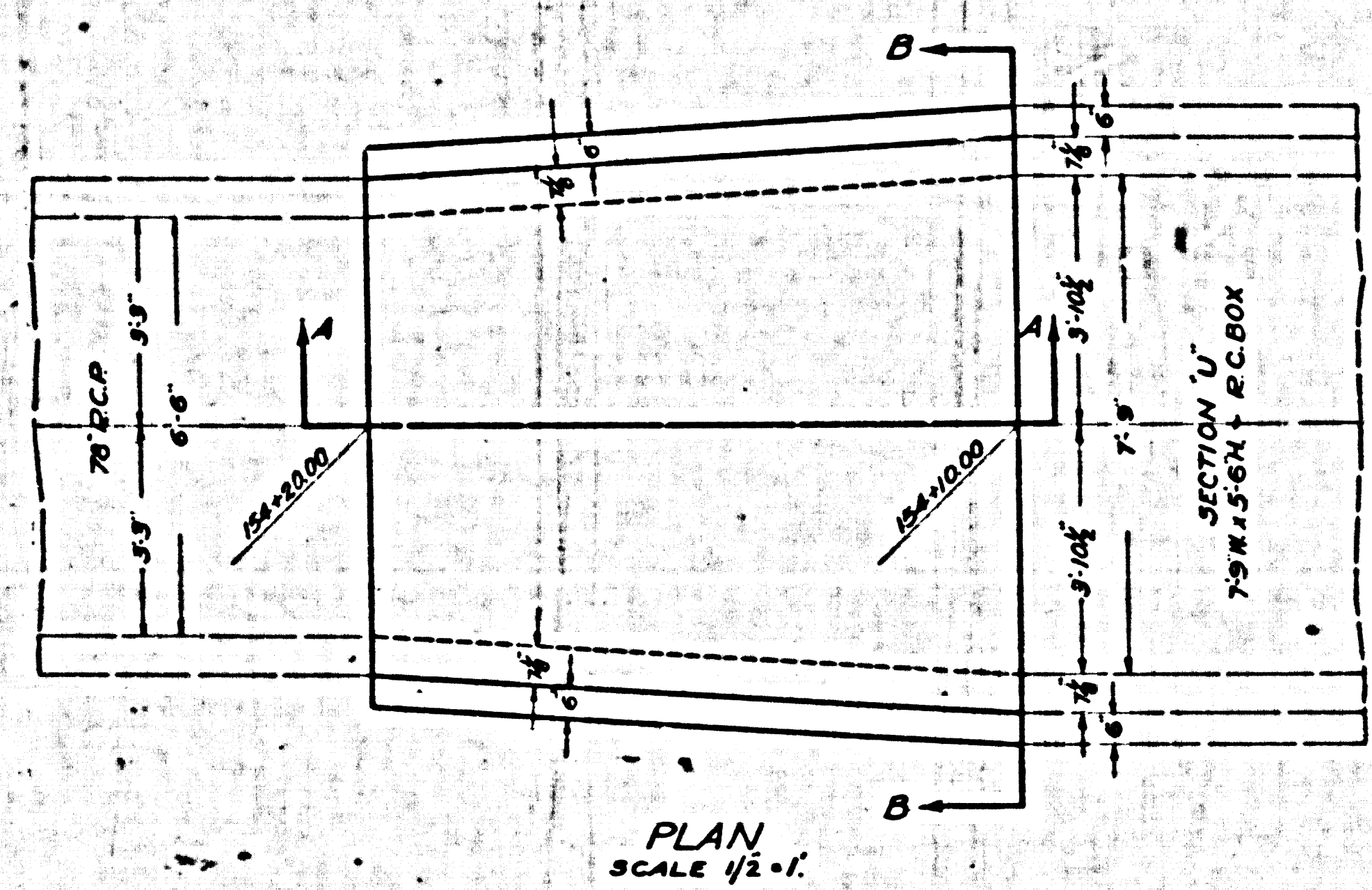
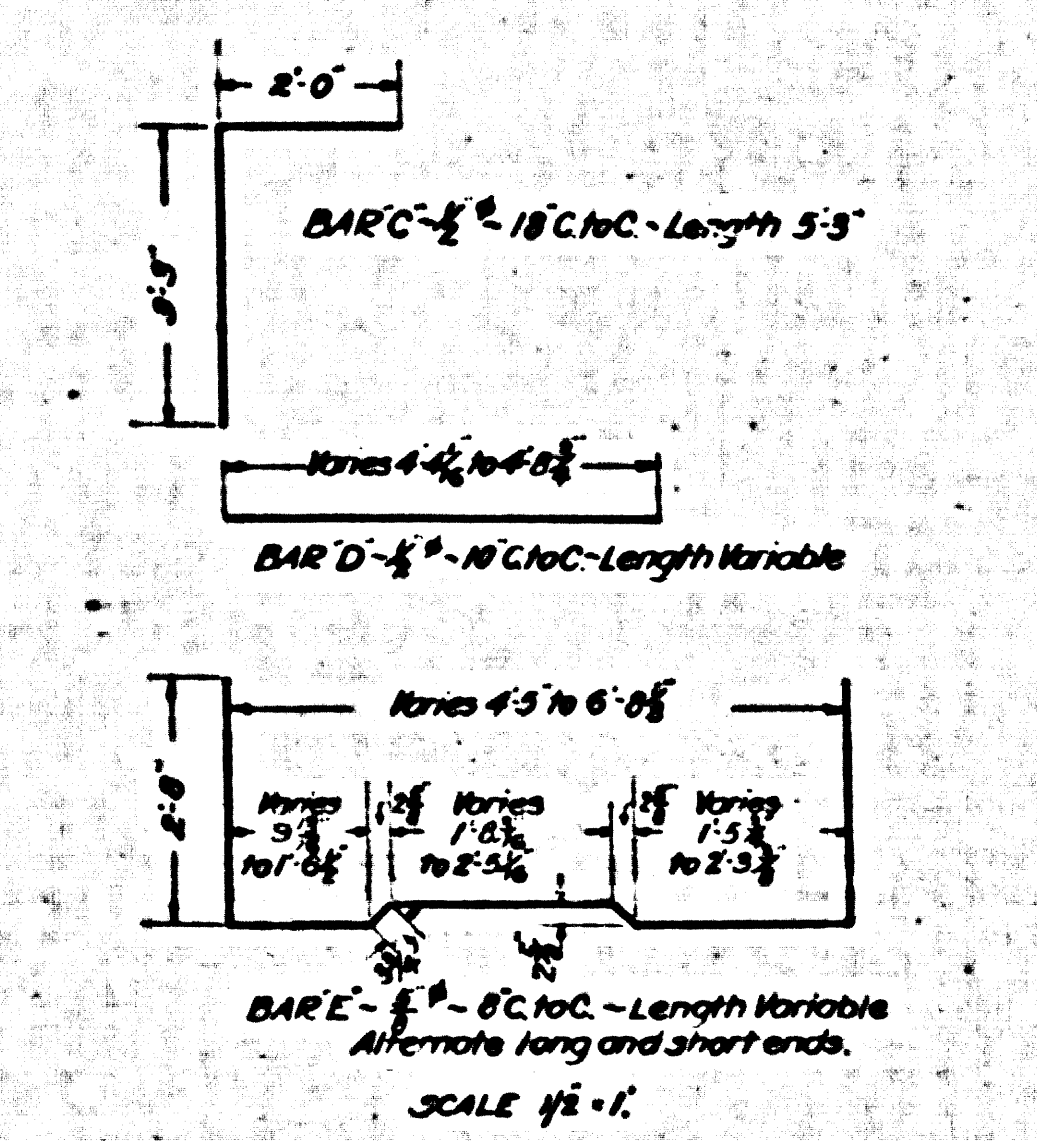
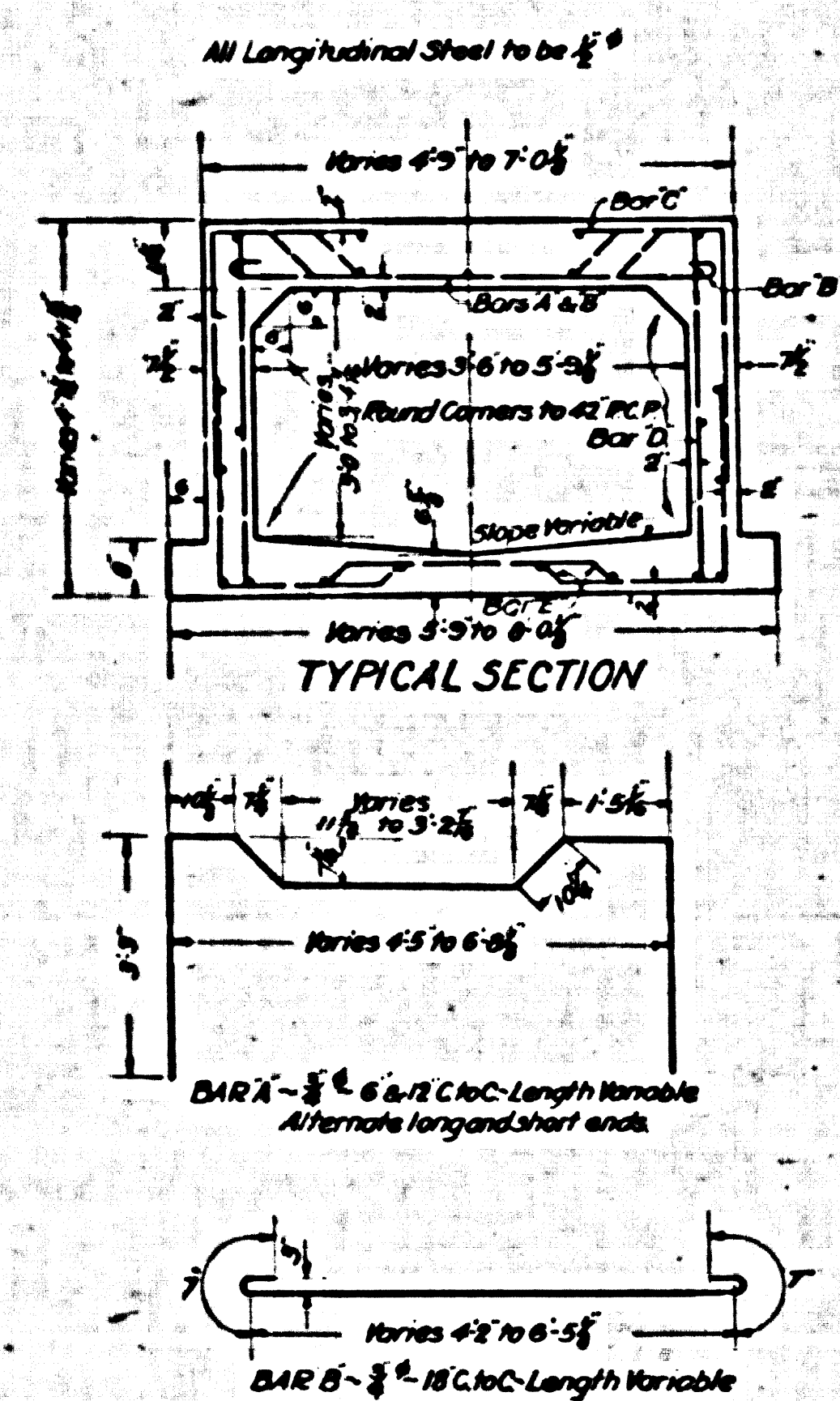


Total Length 750 feet
 Class A-1 Concrete: 0.8201 Cu Yds per foot
 Top Slab: Cover: 5" to 1" - Total Load: 1260 Lbs per sq. ft.
 Reinforcing Steel: 103,3049 Lbs per foot (on tangent)
 Dimensions to Reinforcing Steel refer to center lines.

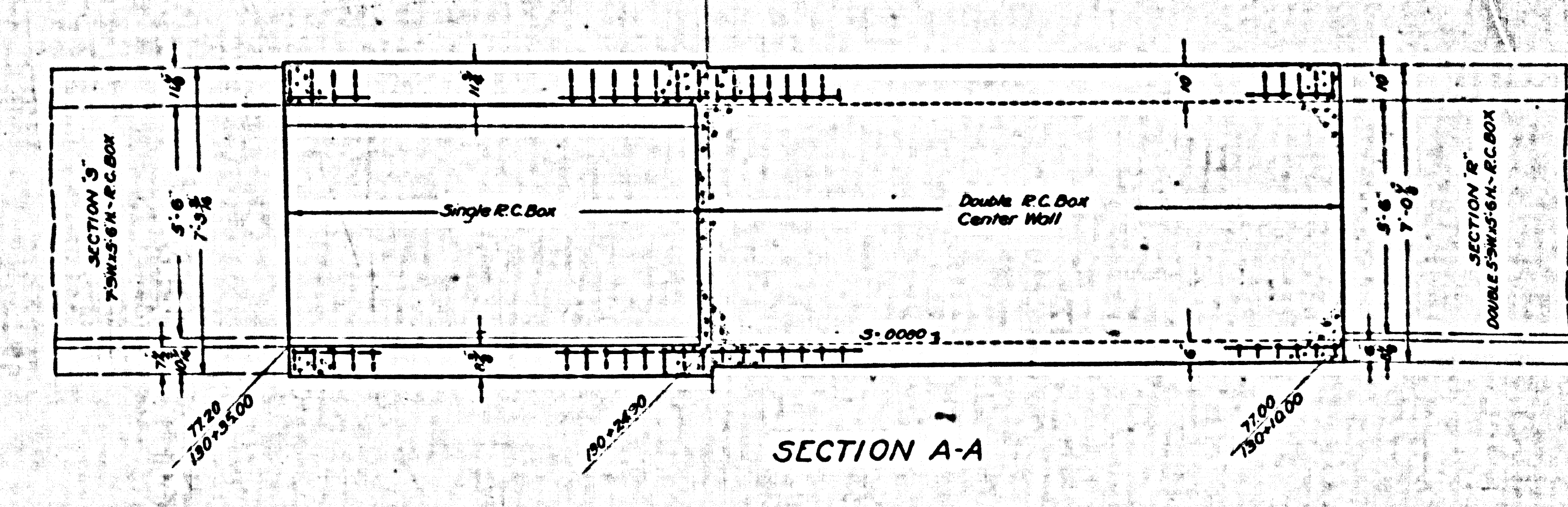
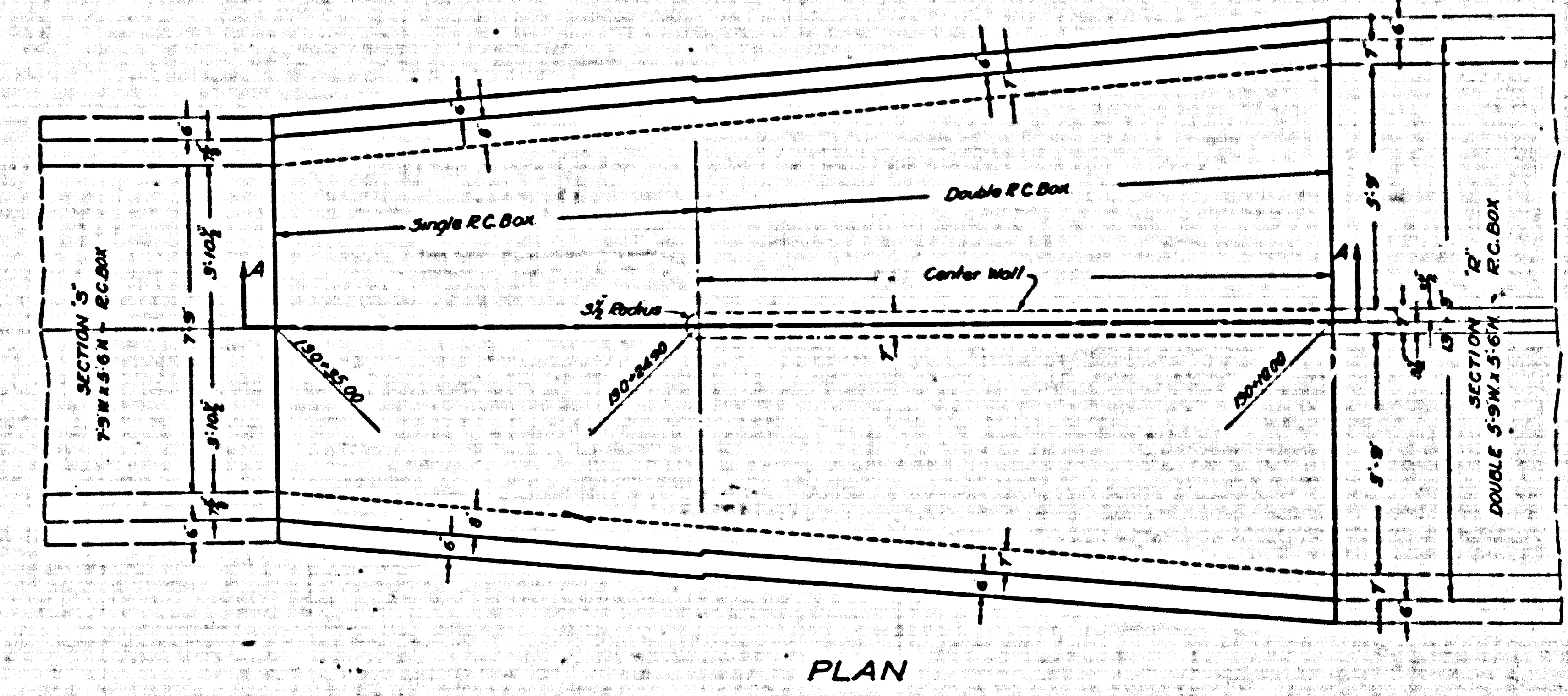
REINFORCED CONCRETE BOX 7'-9" x 5'-6"
SECTION "U"
 FROM STATION 144+50.00 TO STATION 152+00.00 OF LOMITA TRUNK
 SCALE 1/2"=1'

CSB-1165-7
 A8 OF A8

Thin Prints to this line



SEE BOX SECTION 'U' FOR SIZE AND SPACING OF STEEL

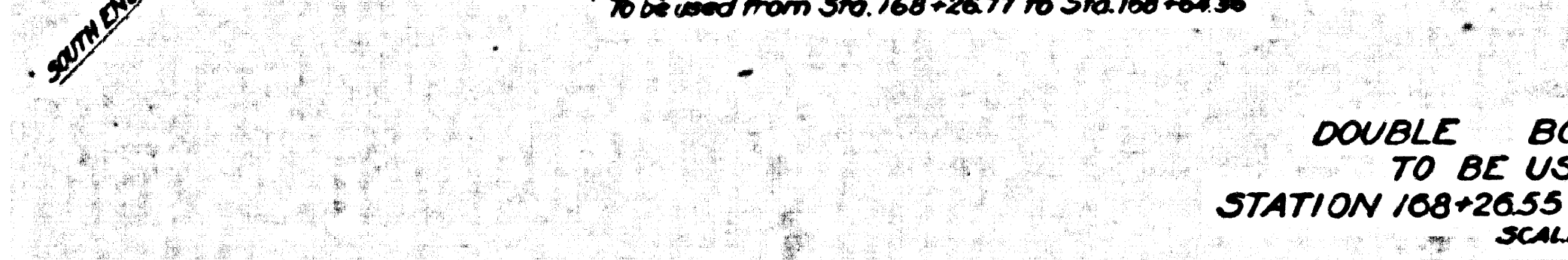
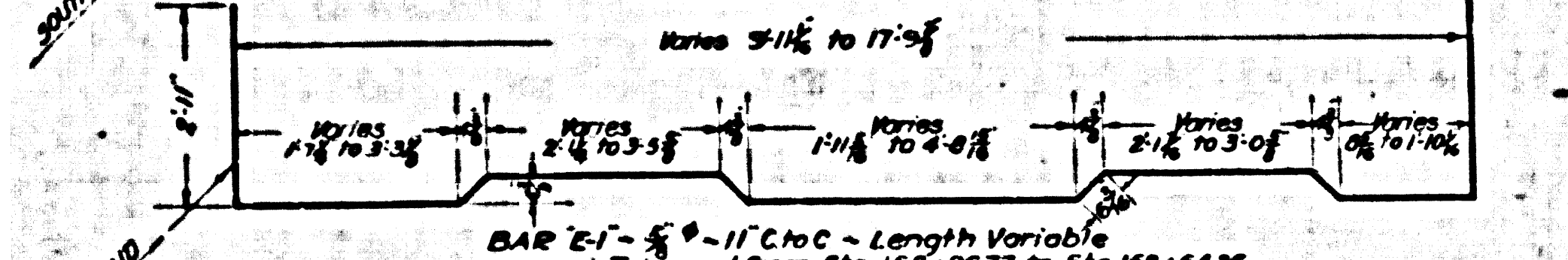
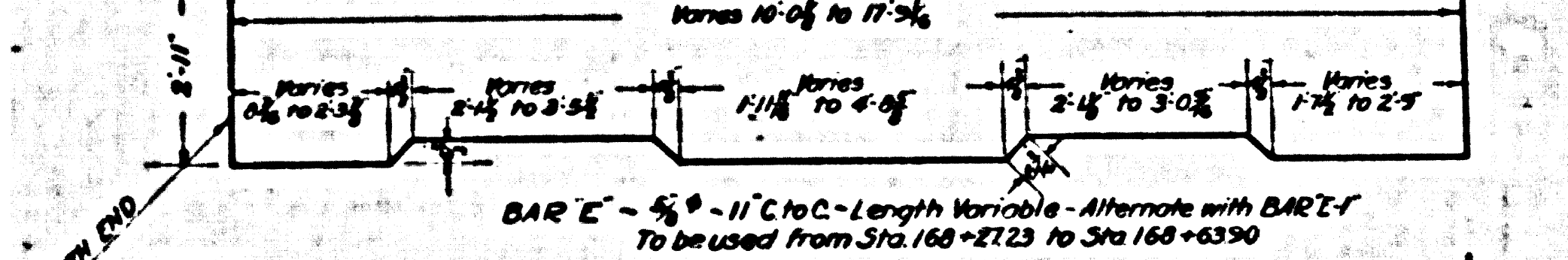
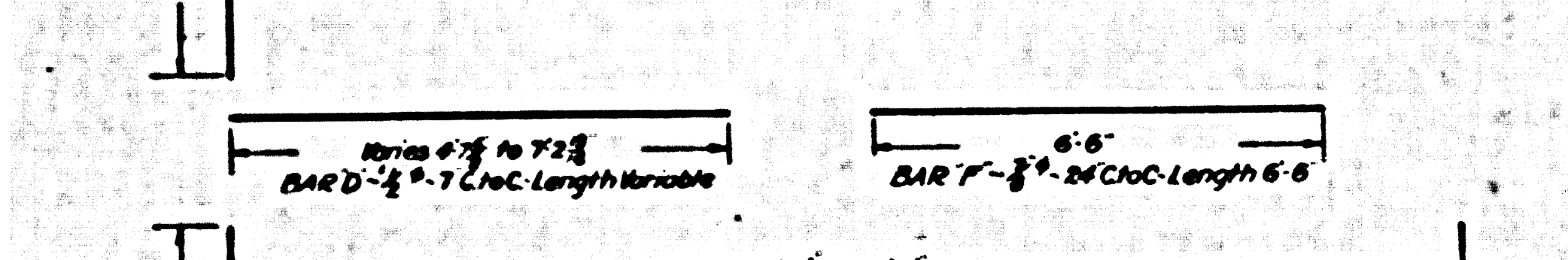
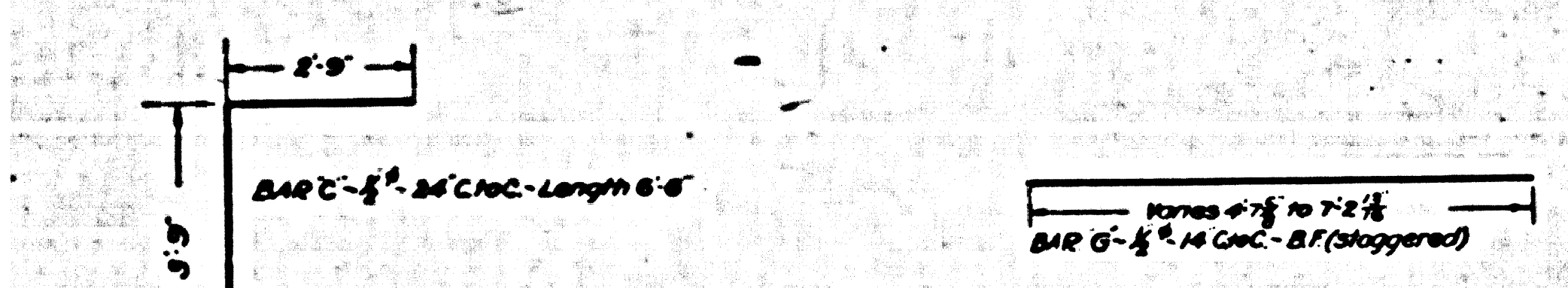
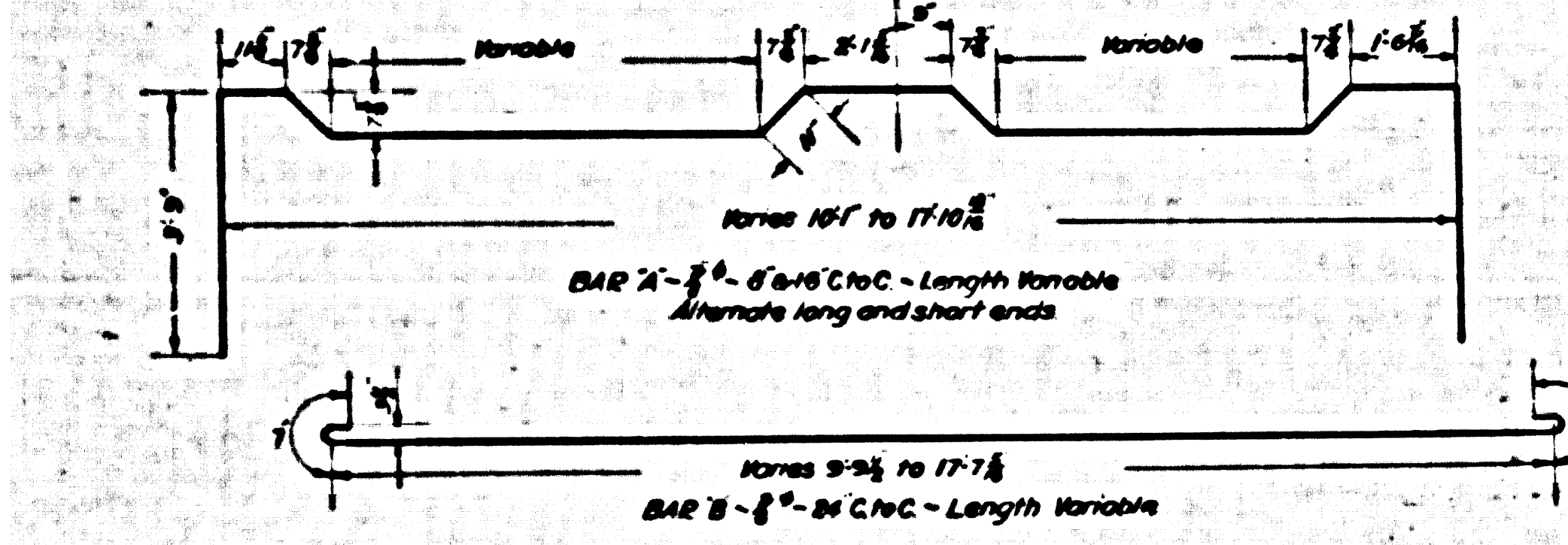
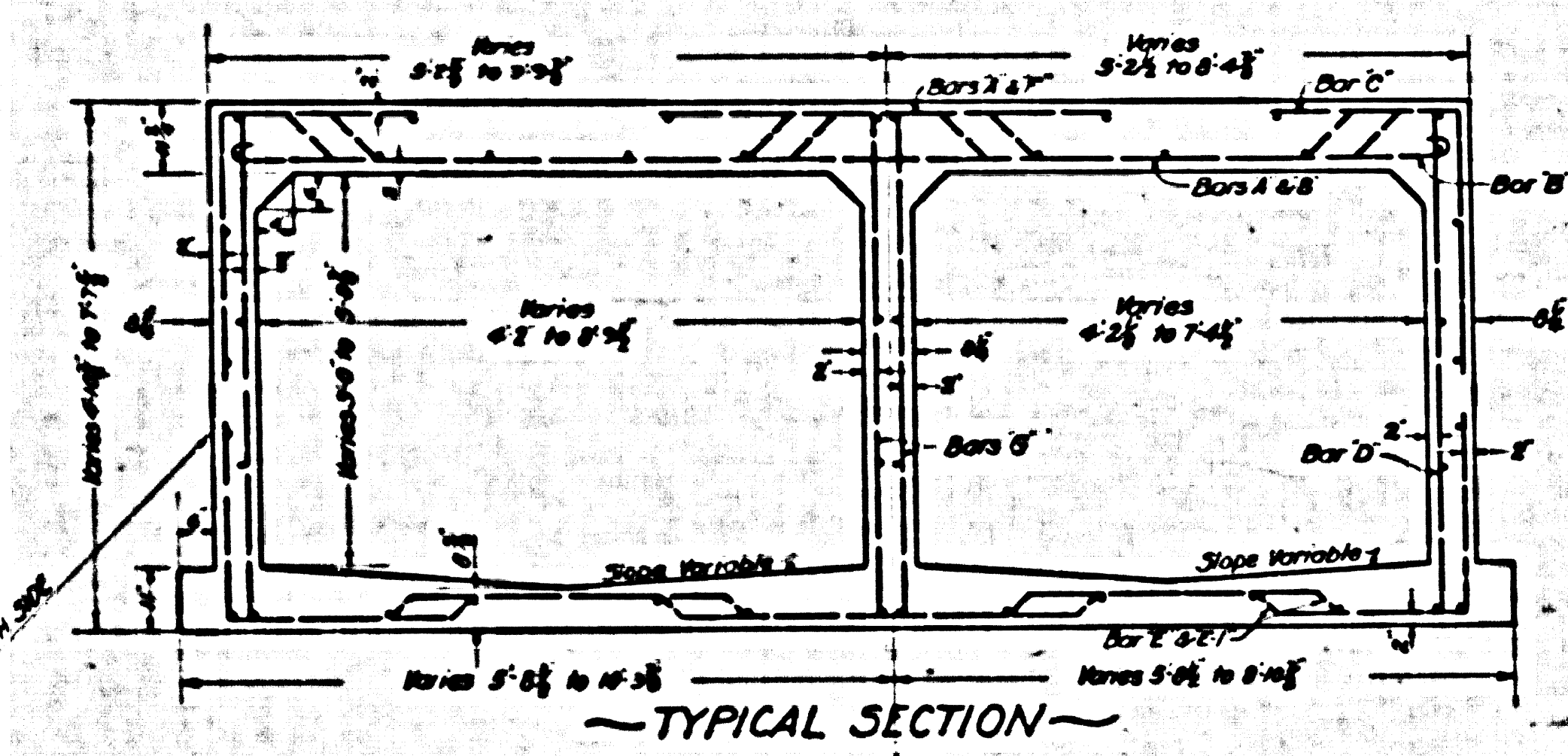


STRUCTURE NO. 10
TO STATION 3+2977 ~ CULVERT STUB
SCALES AS SHOWN

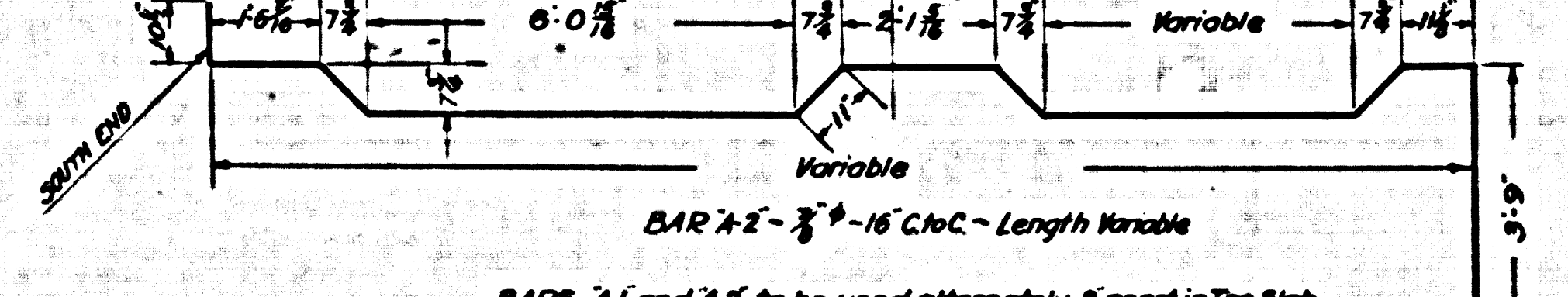
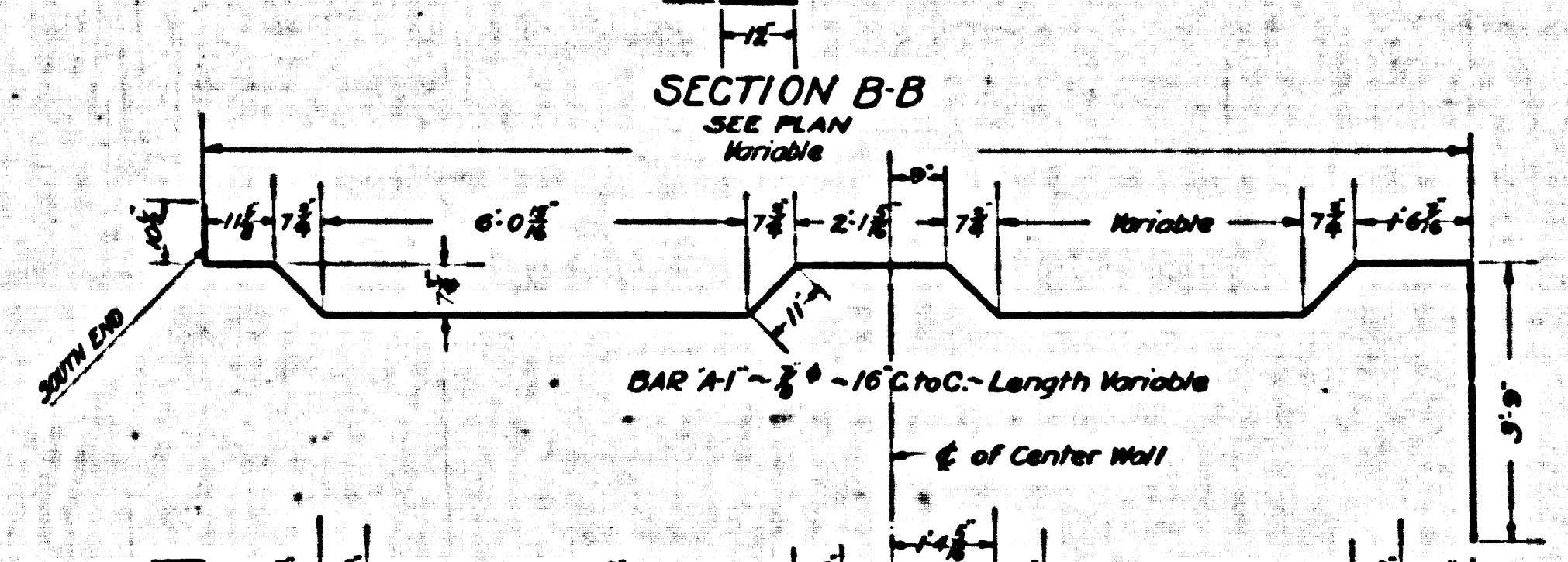
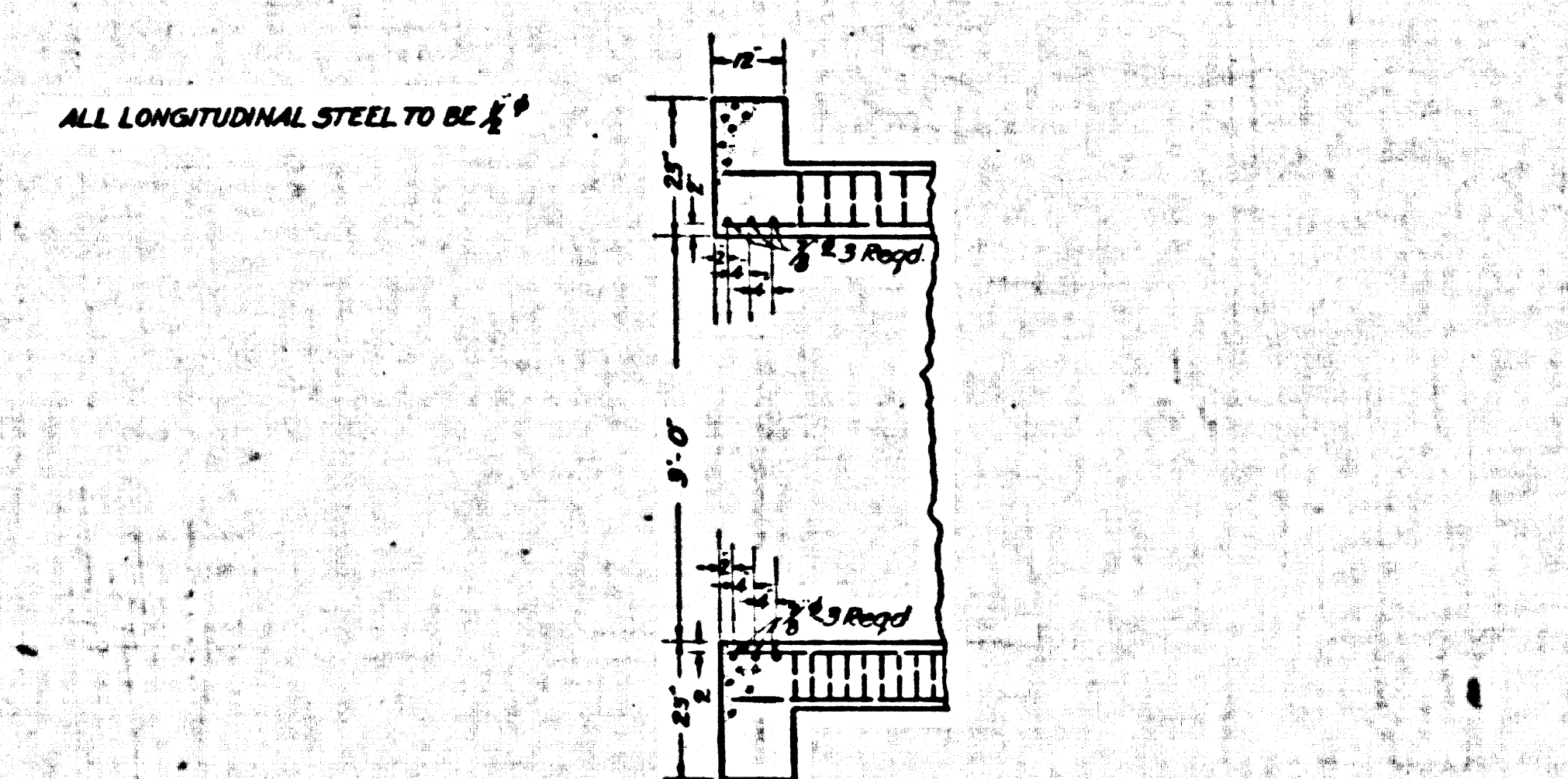
SPECIAL STRUCTURE NO. 9
STATION 154+000 TO STATION 154+2000 ~ LOMITA TRUNK
SCALE 1/2" = 1'

SPECIAL STRUCTURE NO. 8
STATION 130+000 TO STATION 130+1000
SCALE 1/2" = 1'

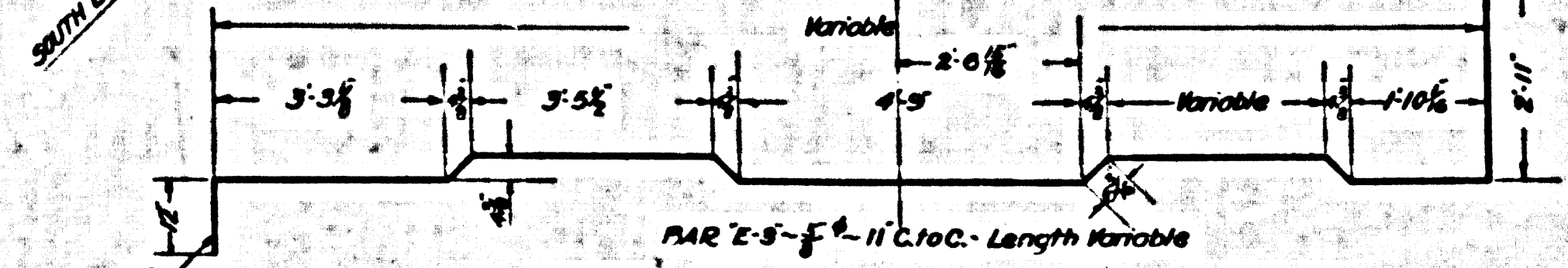
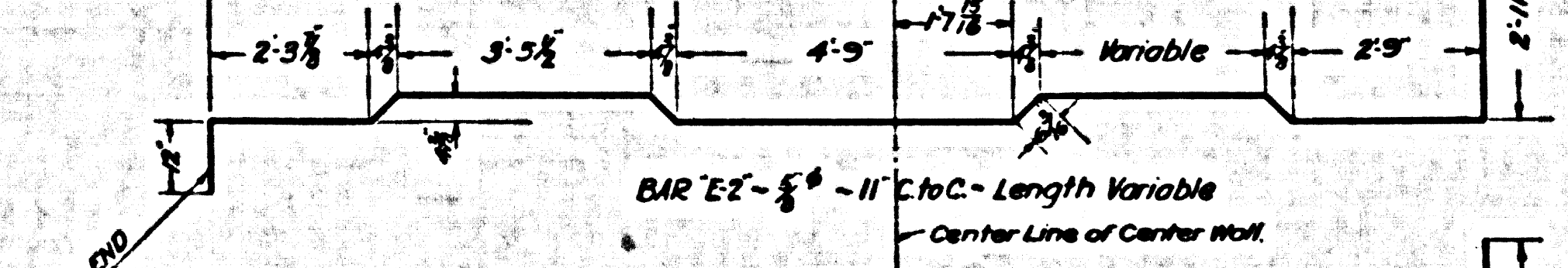
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DOUBLE BOX SECTION
TO BE USED FROM
STATION 168+26.55 TO STATION 168+73.55
SCALE 1/2" = 1'

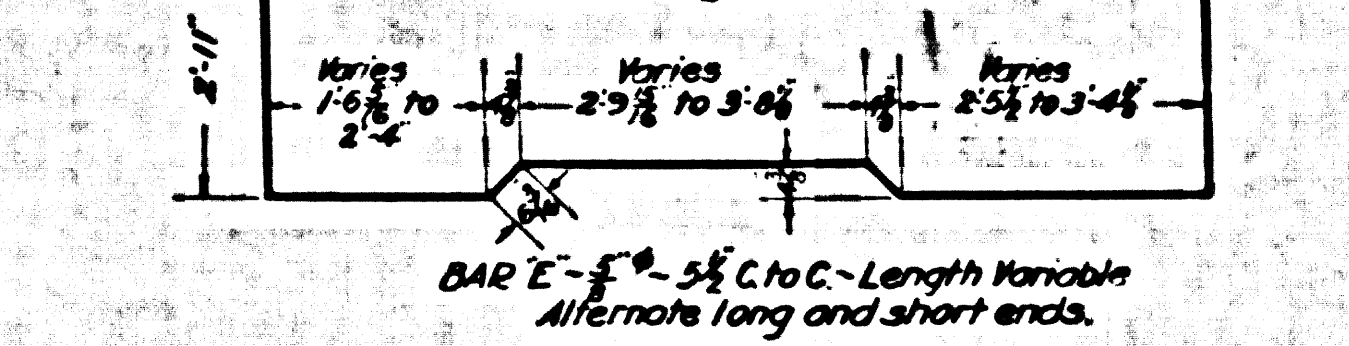
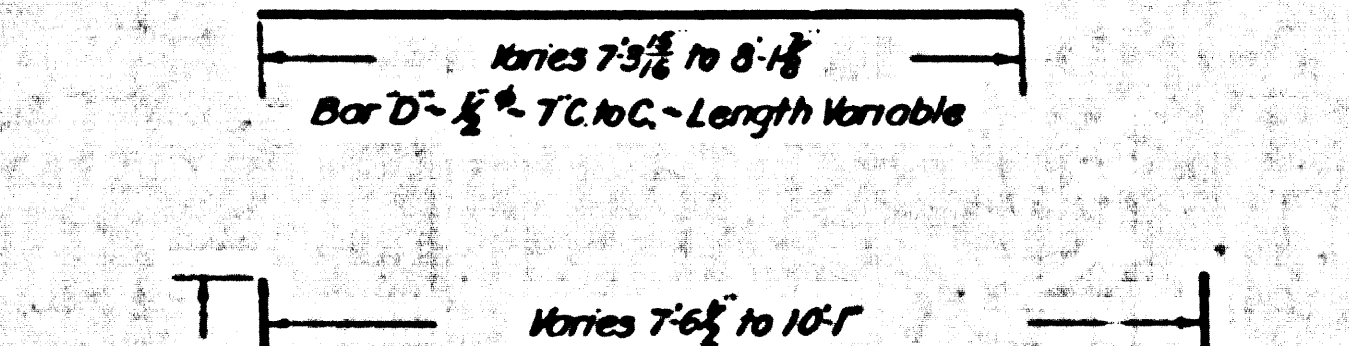
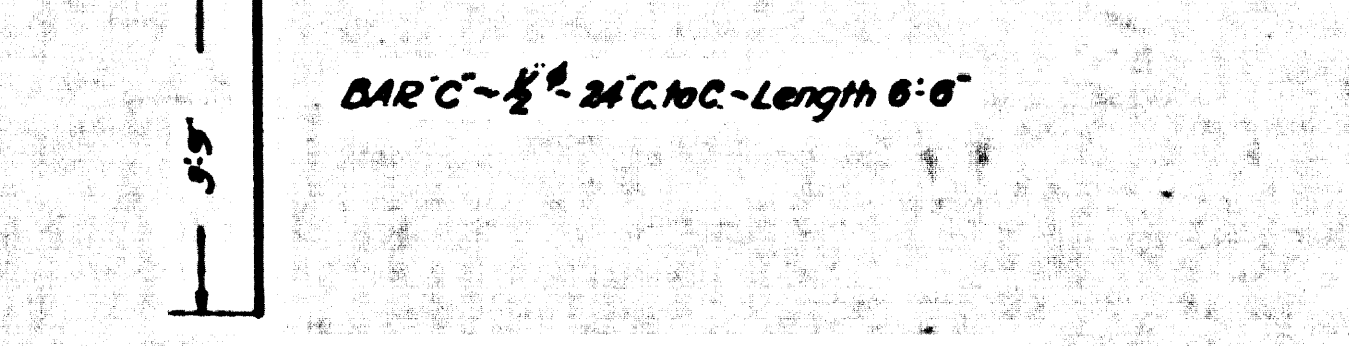
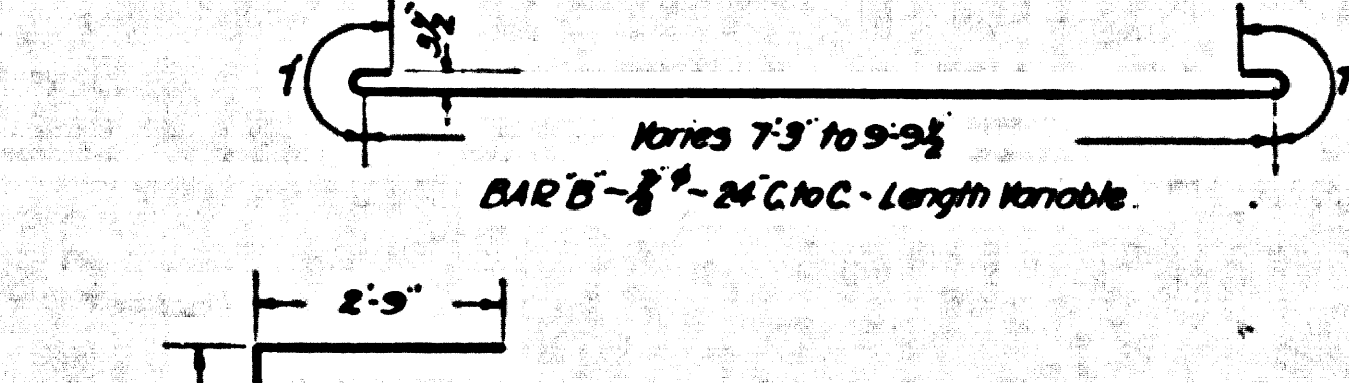
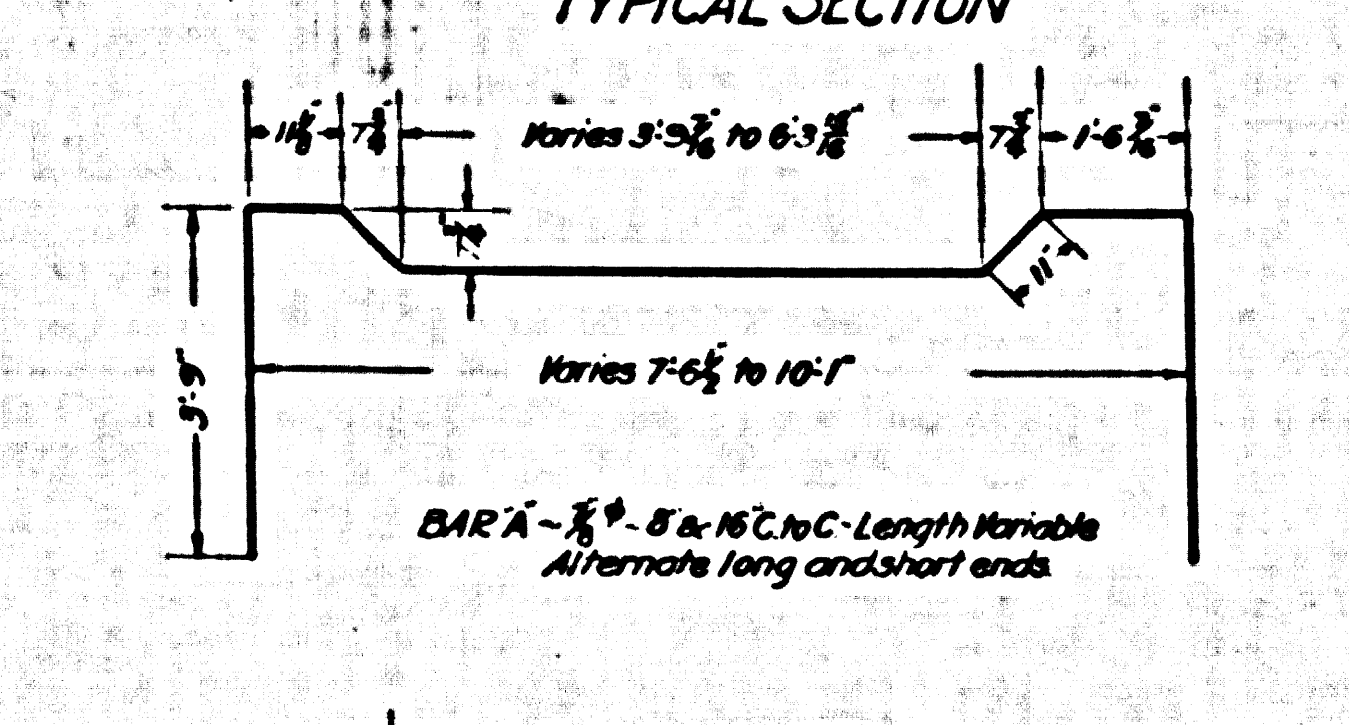
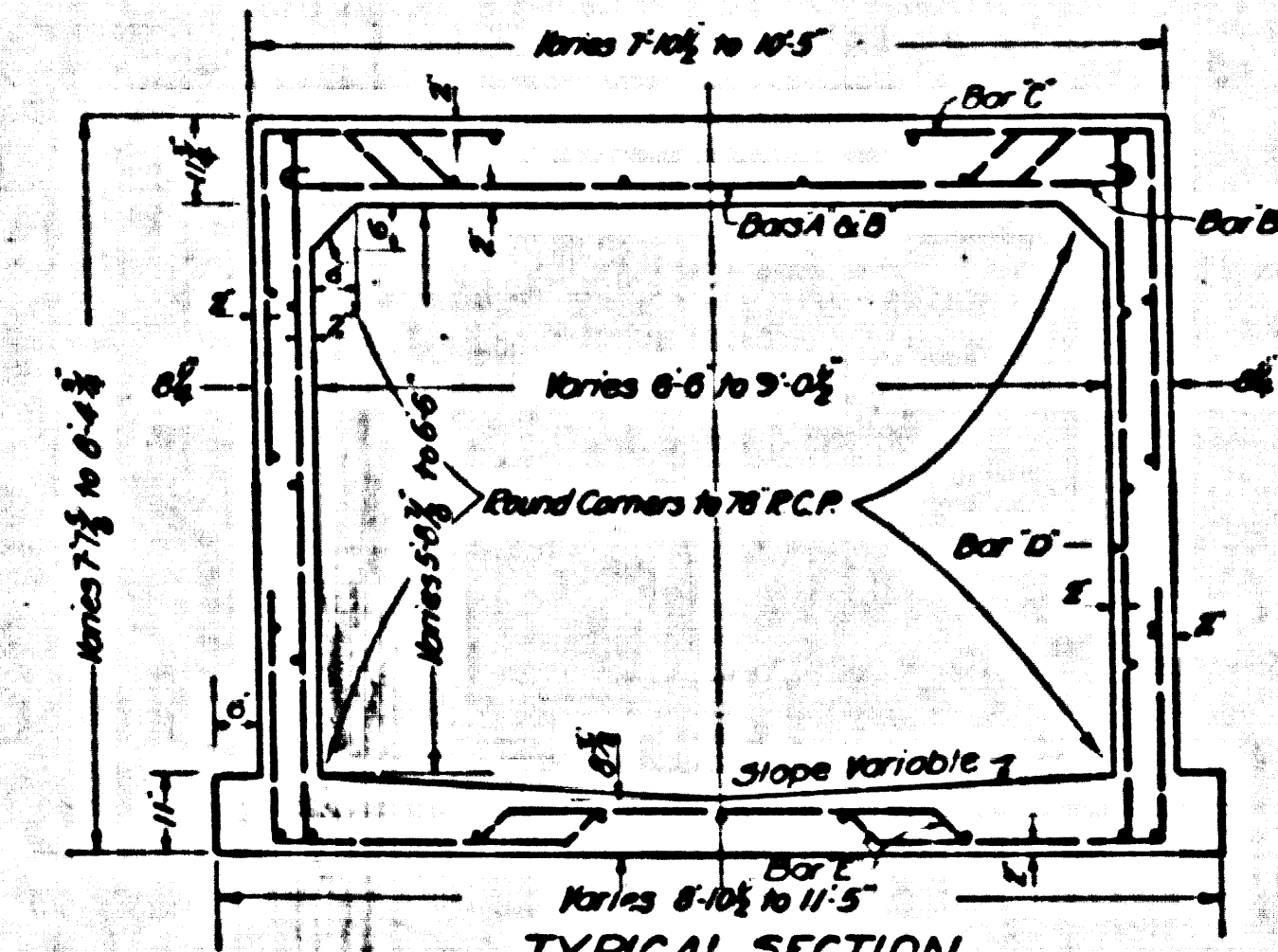


BAR H and I to be used alternately 8' apart in Top Slab
Westerly from Station 168+64.50. South end of bar to be cut off
and bent up into beam with 10% leg

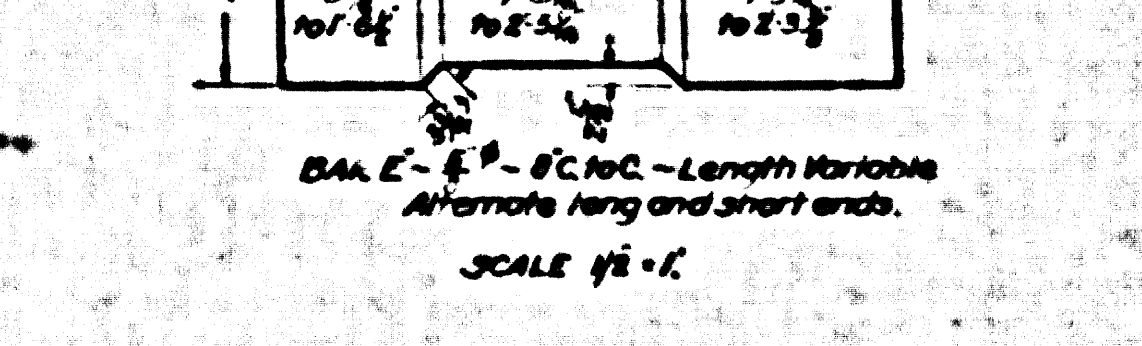
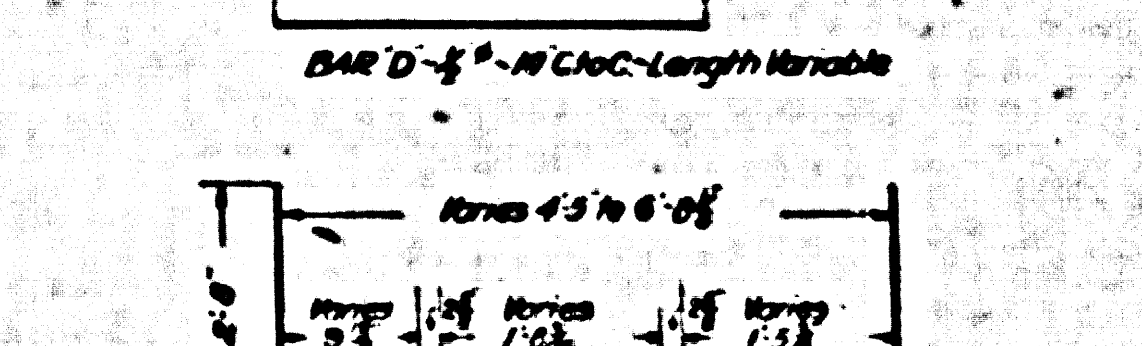
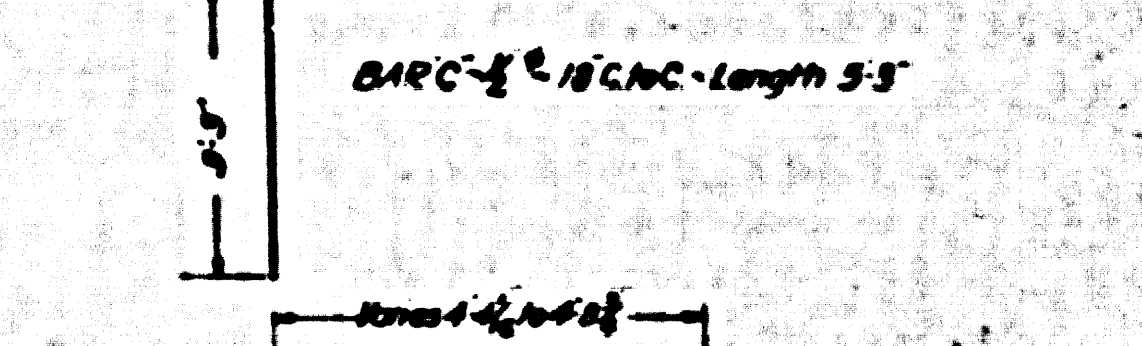
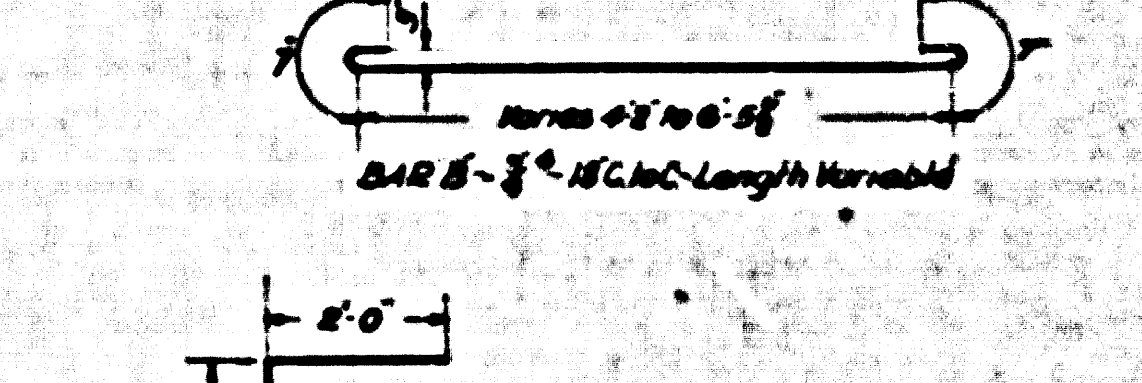
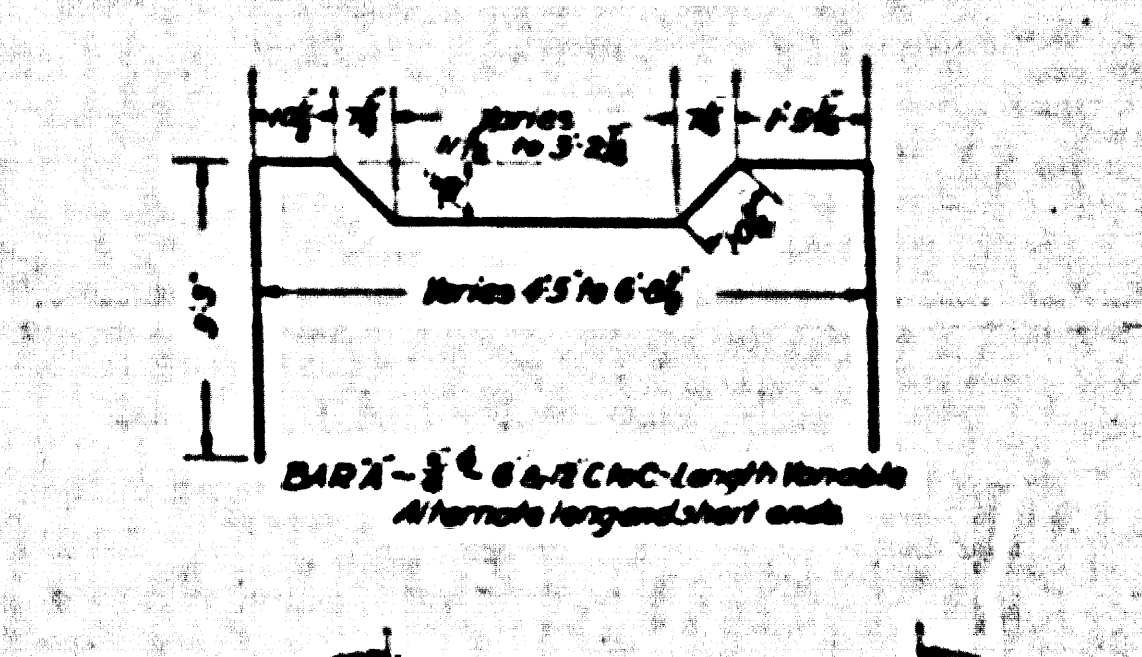
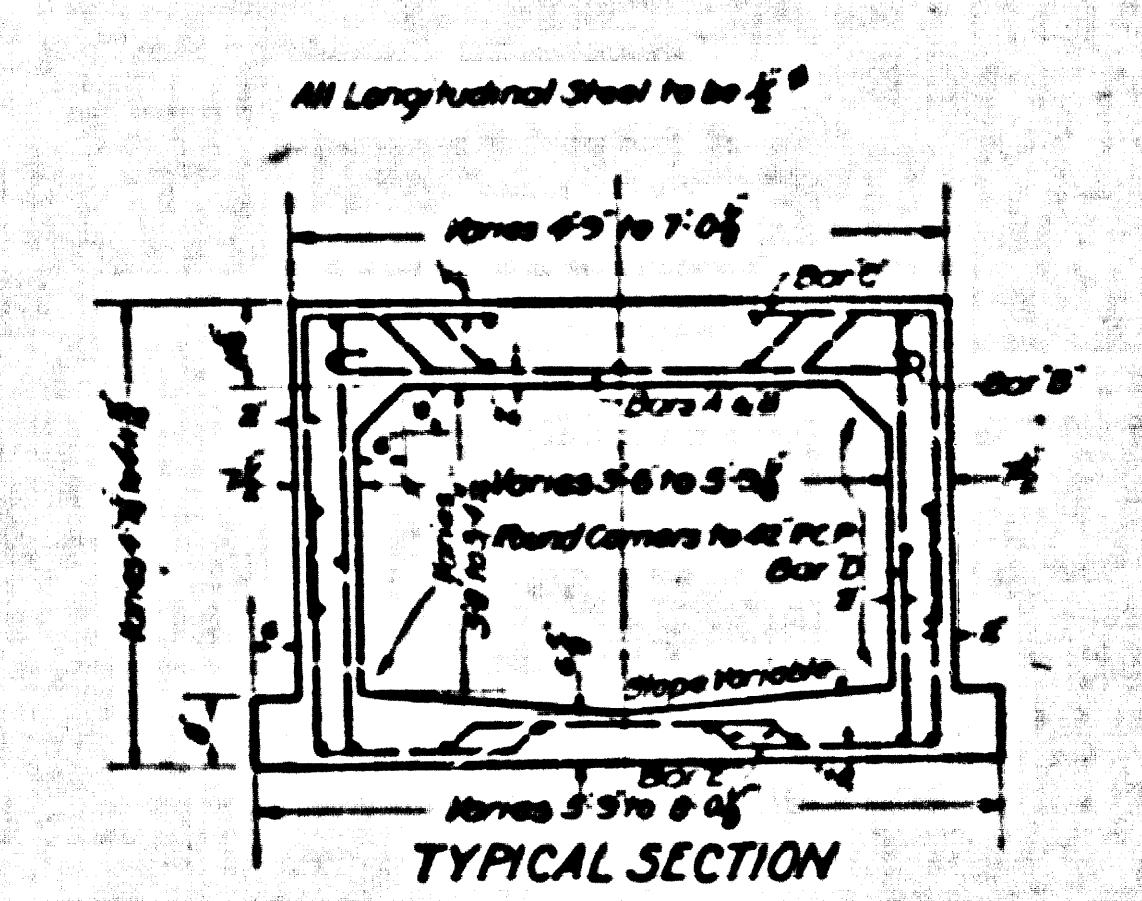
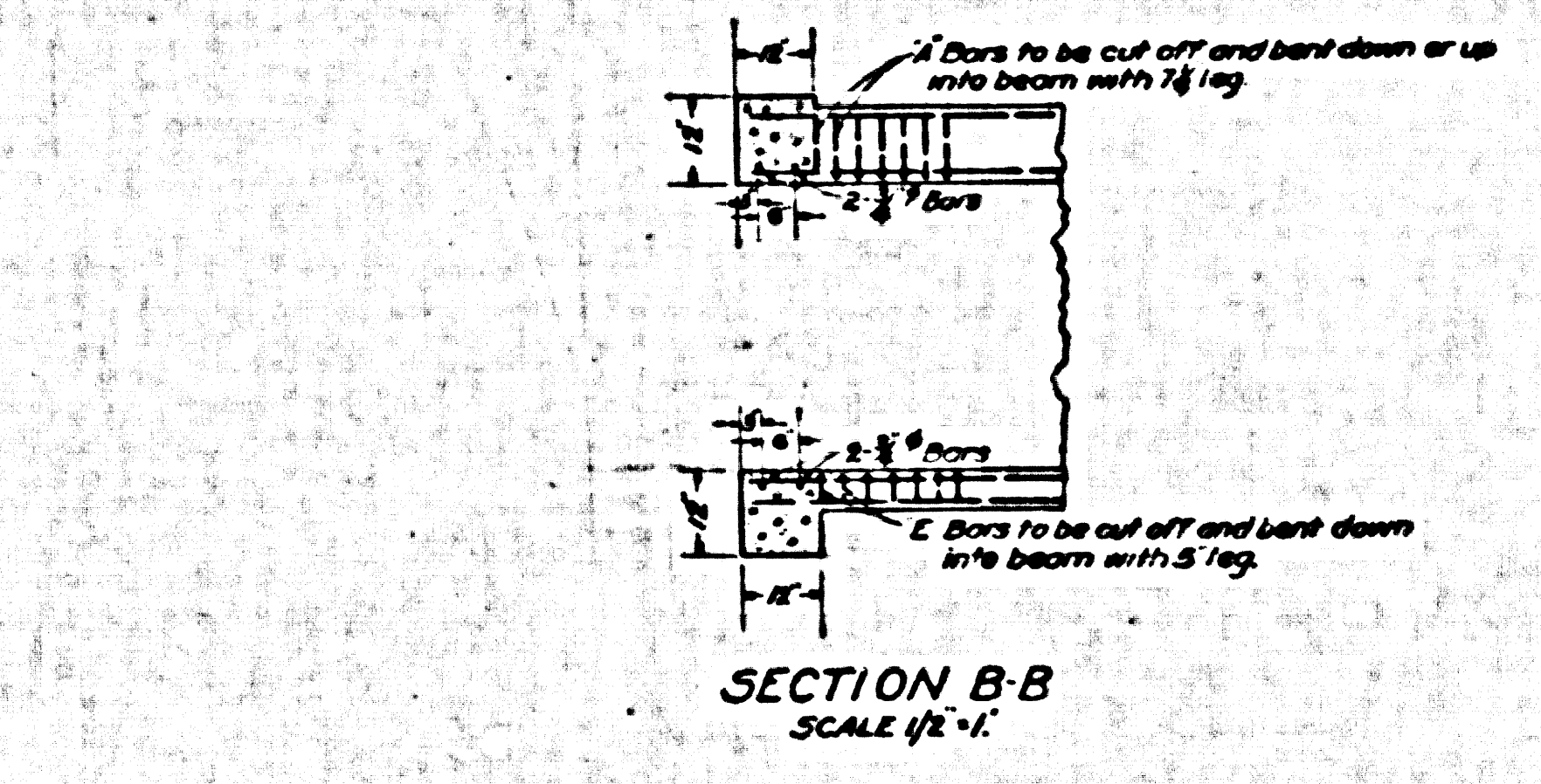
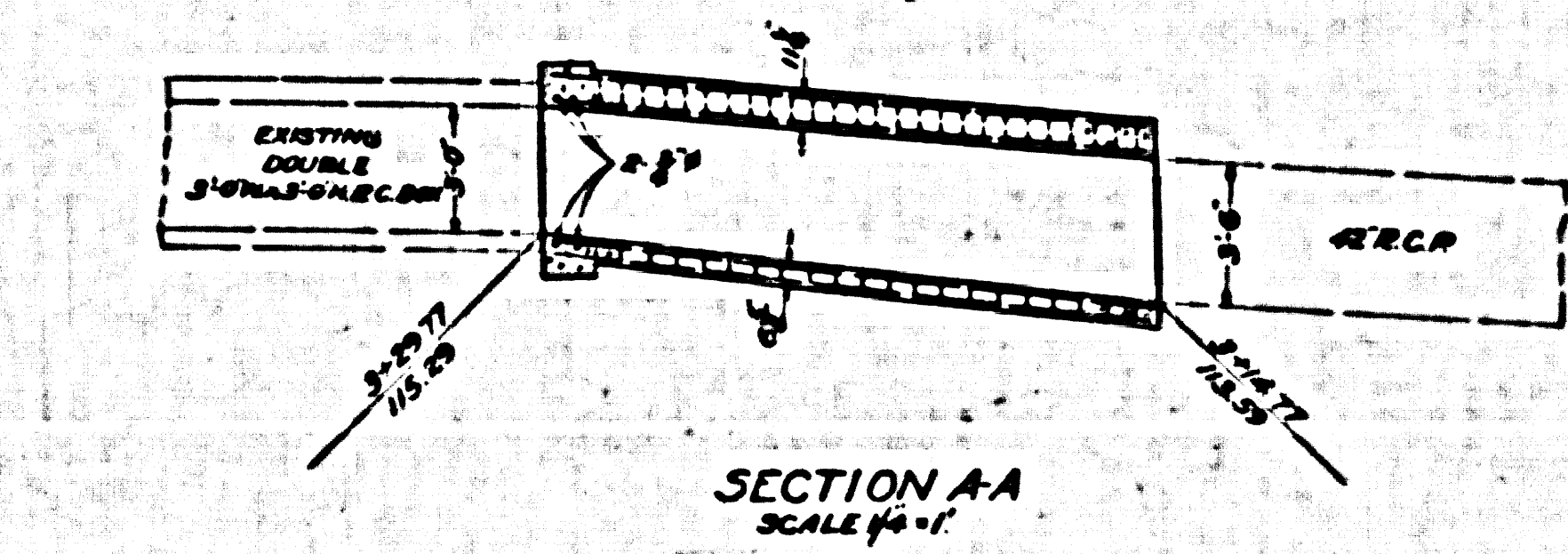
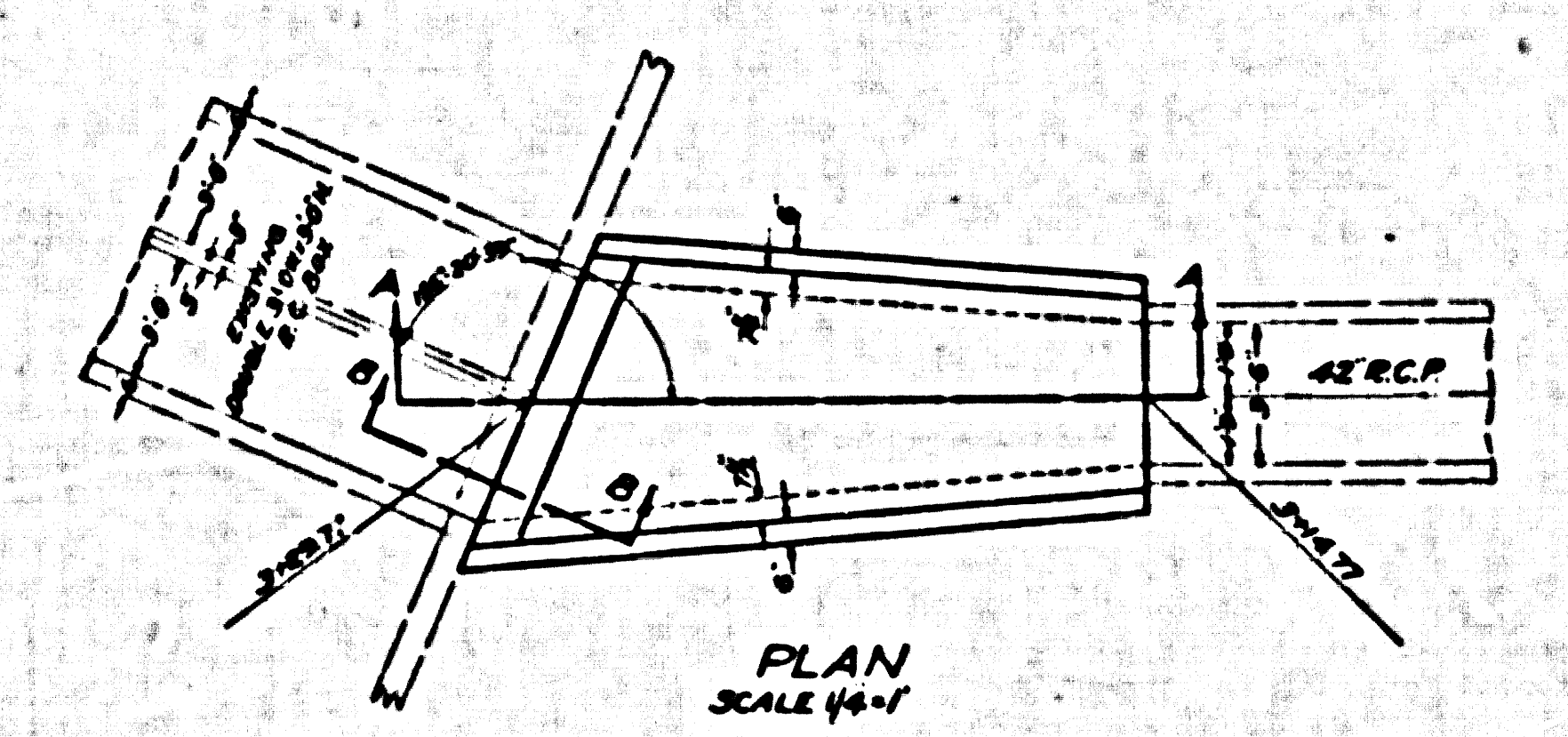


BAR J and K to be used alternately 3 1/2' apart in Floor Slab
Westerly from Station 168+64.50. South end of bar to be cut off
and bent down into beam with 10% leg

DOUBLE BOX SECTION
TO BE USED FROM
STATION 168+26.55 TO STATION 168+73.55
SCALE 1/2" = 1'



SINGLE BOX SECTION
TO BE USED FROM
STATION 168+13.55 TO STATION 168+26.55
SCALE 1/2" = 1'

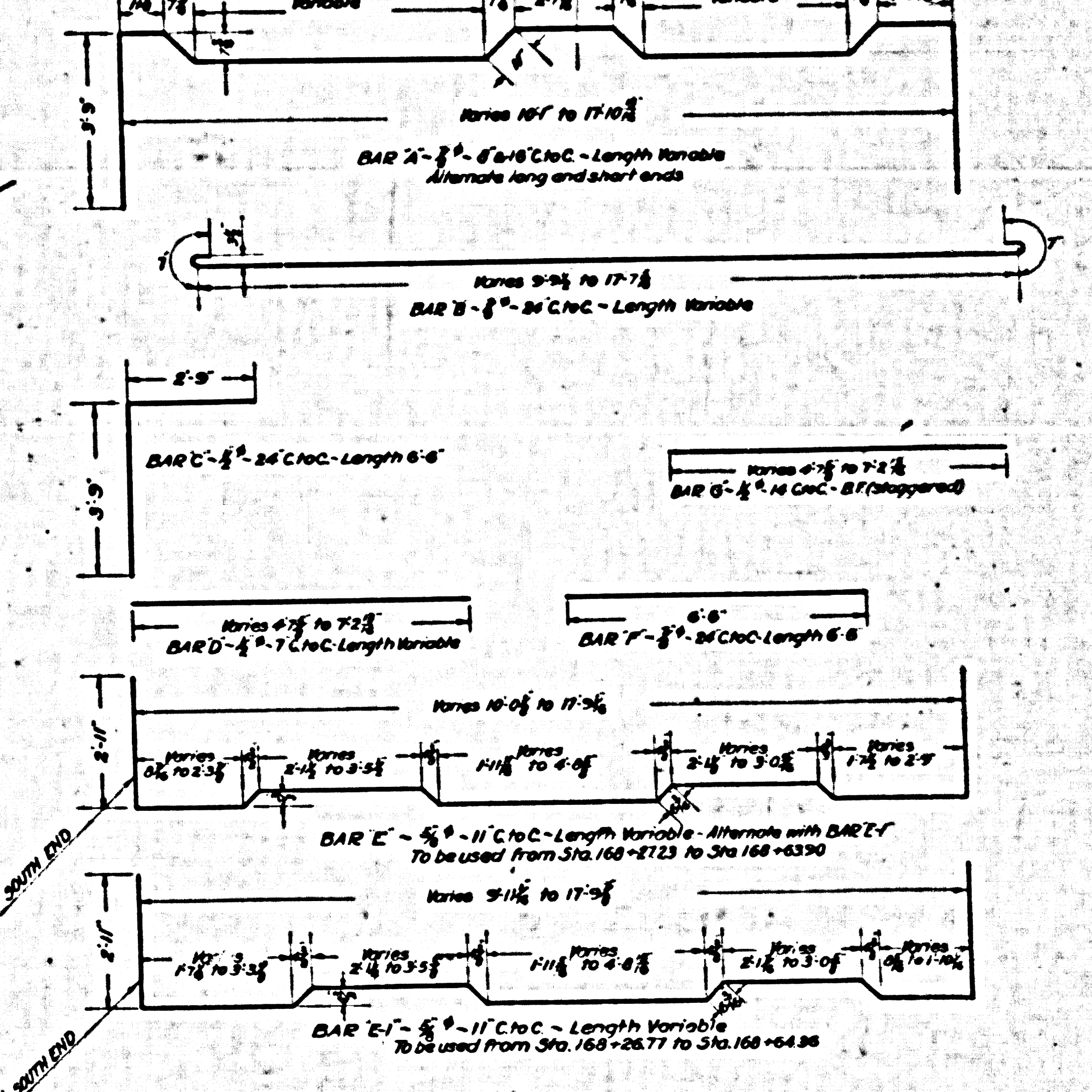
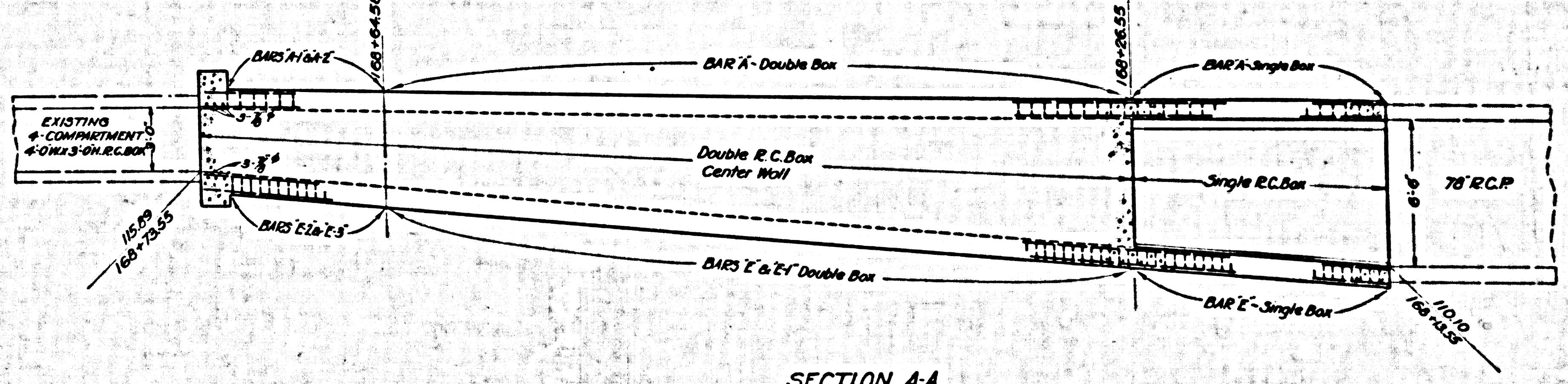
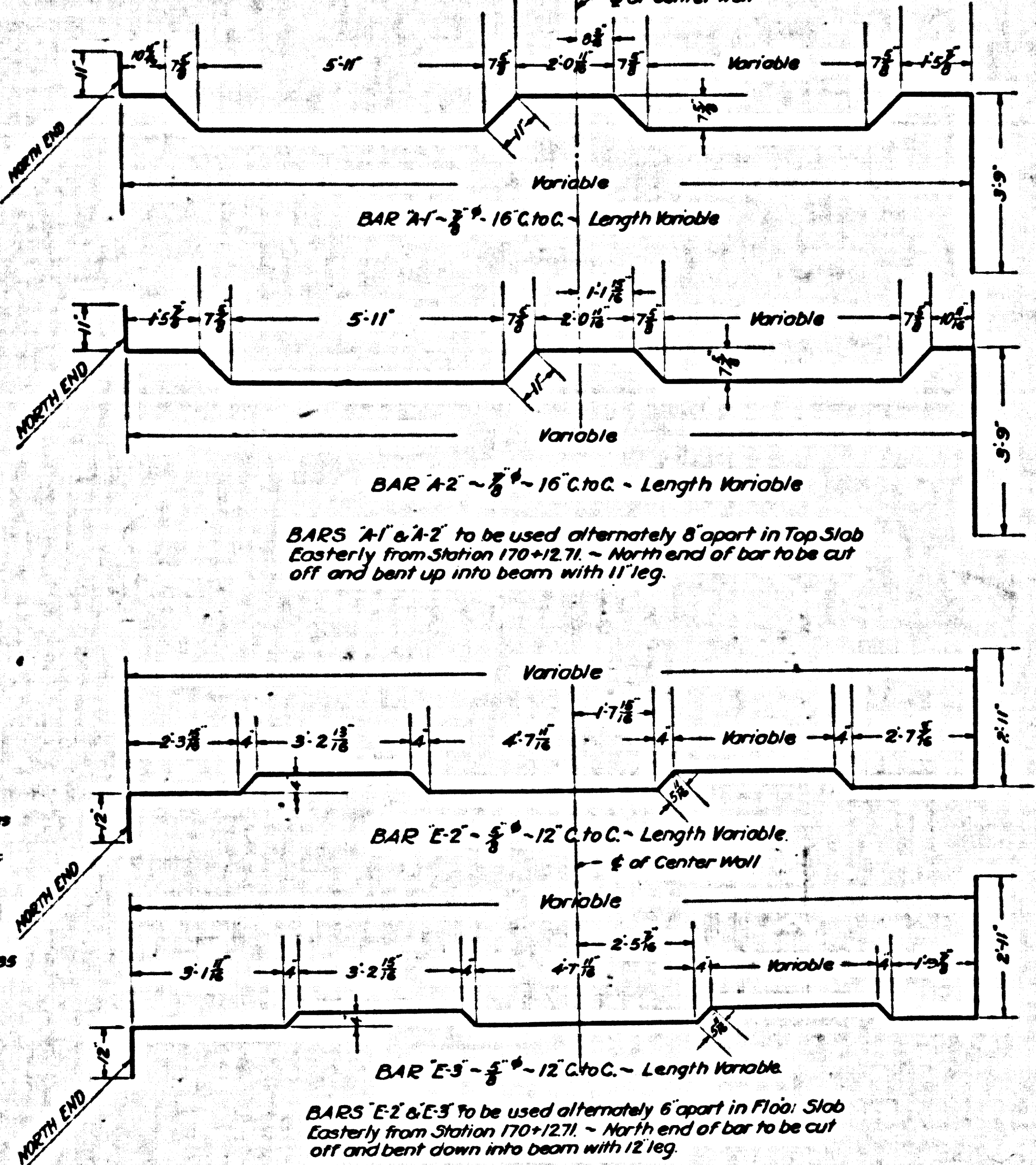
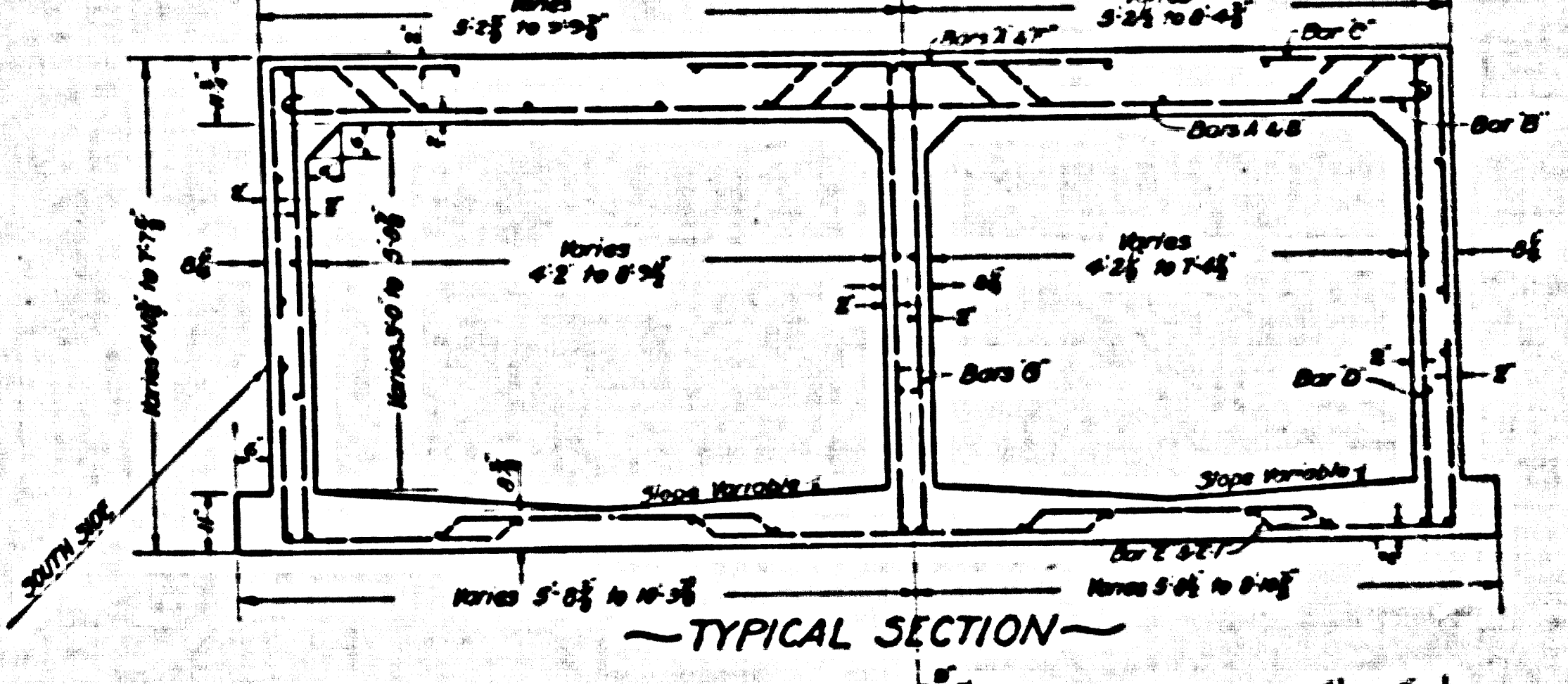
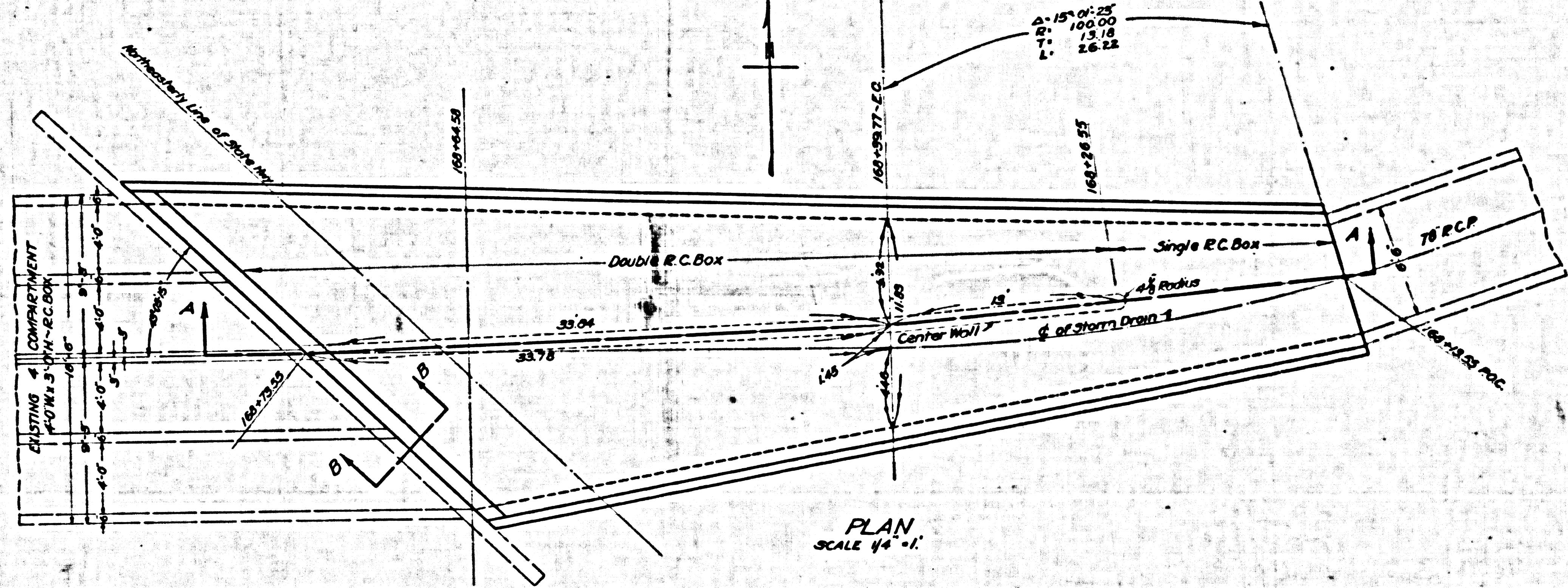
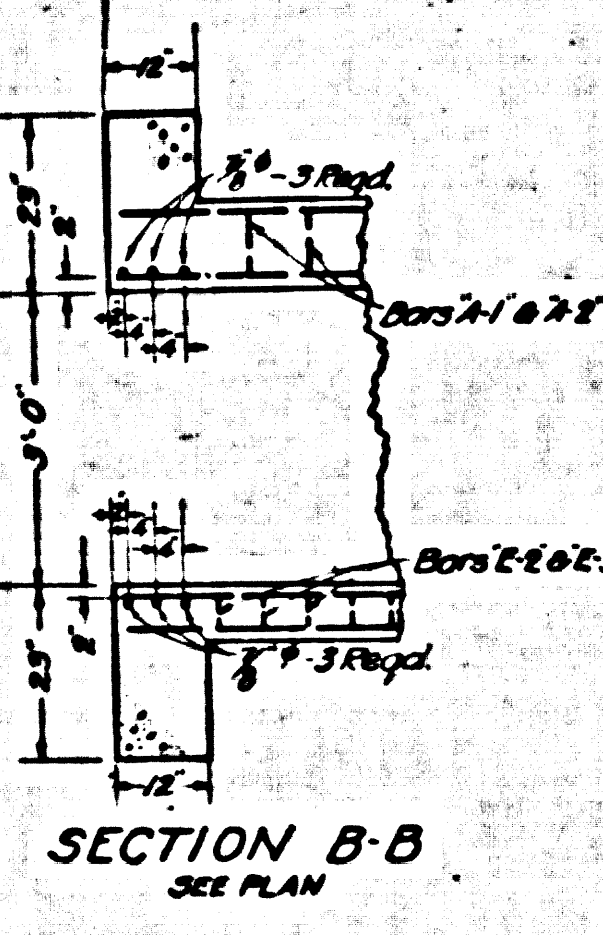


DOUBLE BOX SECTION
TO BE USED FROM
STATION 168+26.55 TO STATION 168+73.55
SCALE 1/2" = 1'

SPECIAL STRUCTURE NO. 11
STATION 168+13.55 TO STATION 168+73.55 - LOMITA TRUNK
SCALES AS SHOWN

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SPECIAL STRUCTURE NO. 10
STATION 3+1477 TO STATION 3+2977 - CULVERT STUB
SCALES AS SHOWN



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SPECIAL STRUCTURE NO. 11
STATION 168+13.55 TO STATION 168+73.55 - LOMITA TRUNK
SCALES AS SHOWN