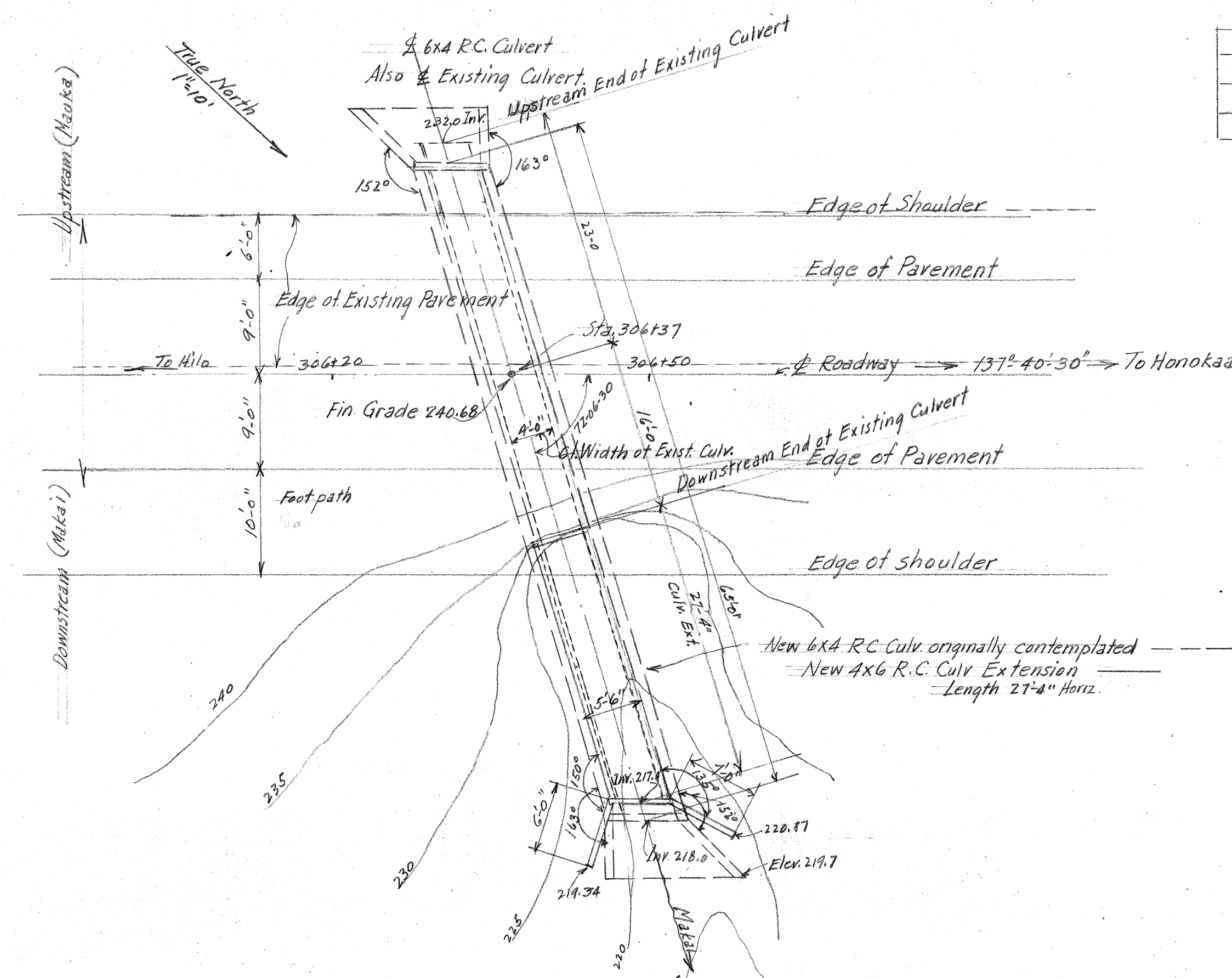
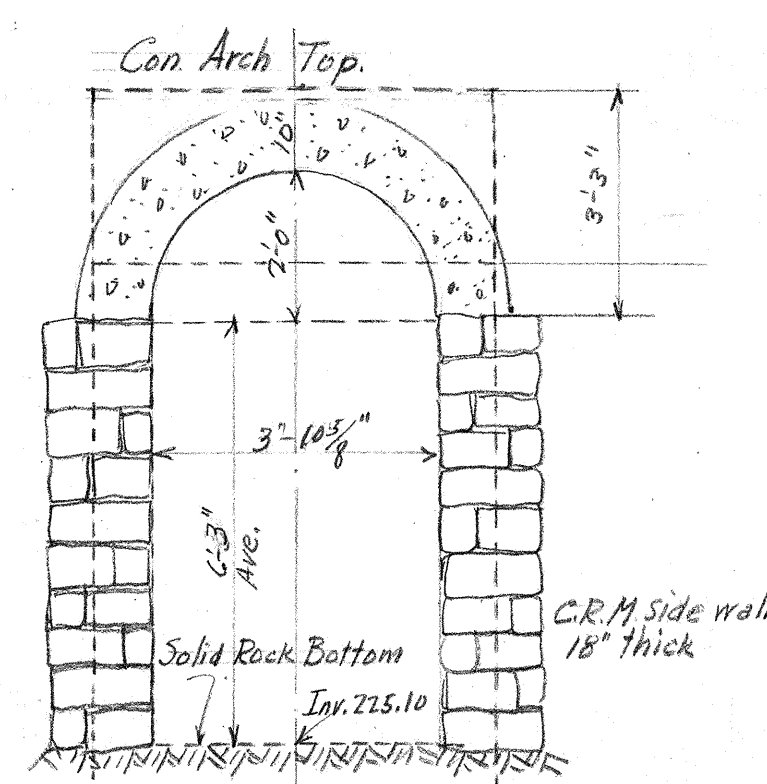


QUANTITIES

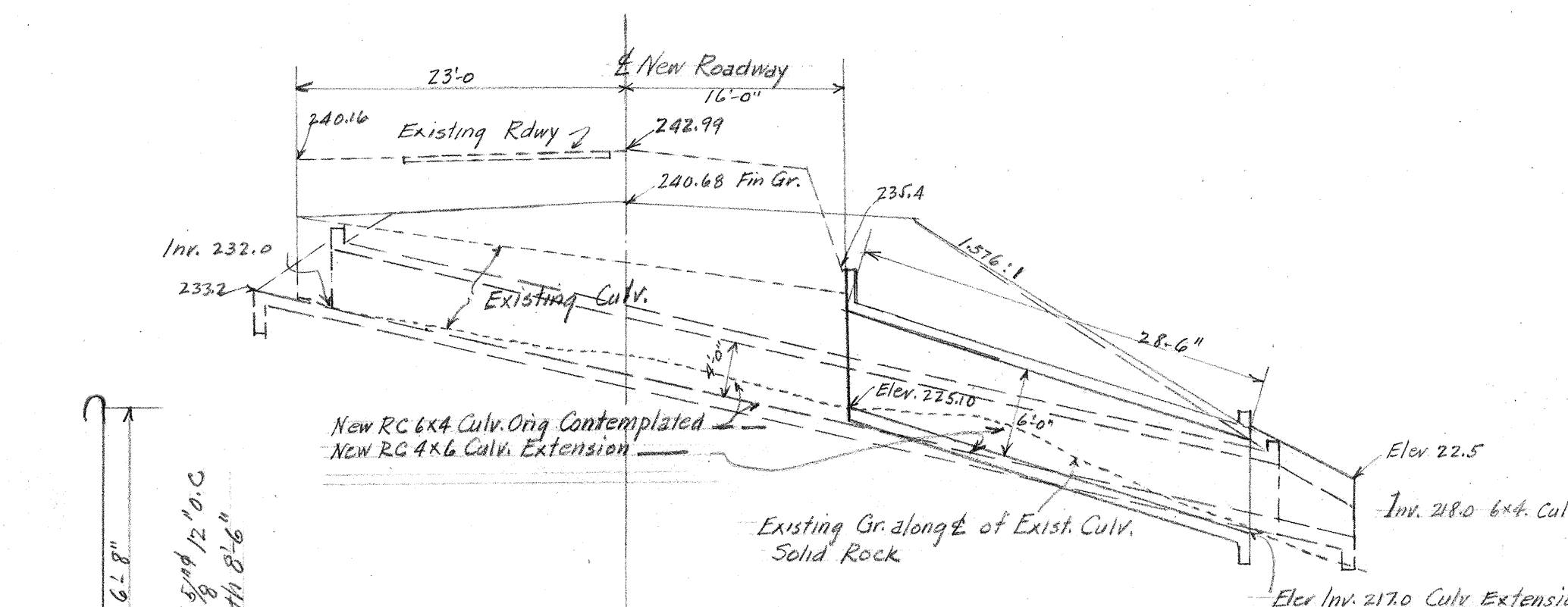
Structure	Str. Exc	Concrete	Reinf	Chan. Exc
Original 6x4 R.C. Culv.	250.0 CY	33.29 CY	7209.5 lbs	50.0 CY
4x6 R.C. Culv. Ext.	16.2 CY	23.66 CY	3634.06 "	34.0 CY
Difference	-233.8	-29.63 CY	-3555.44 "	-16.0 CY



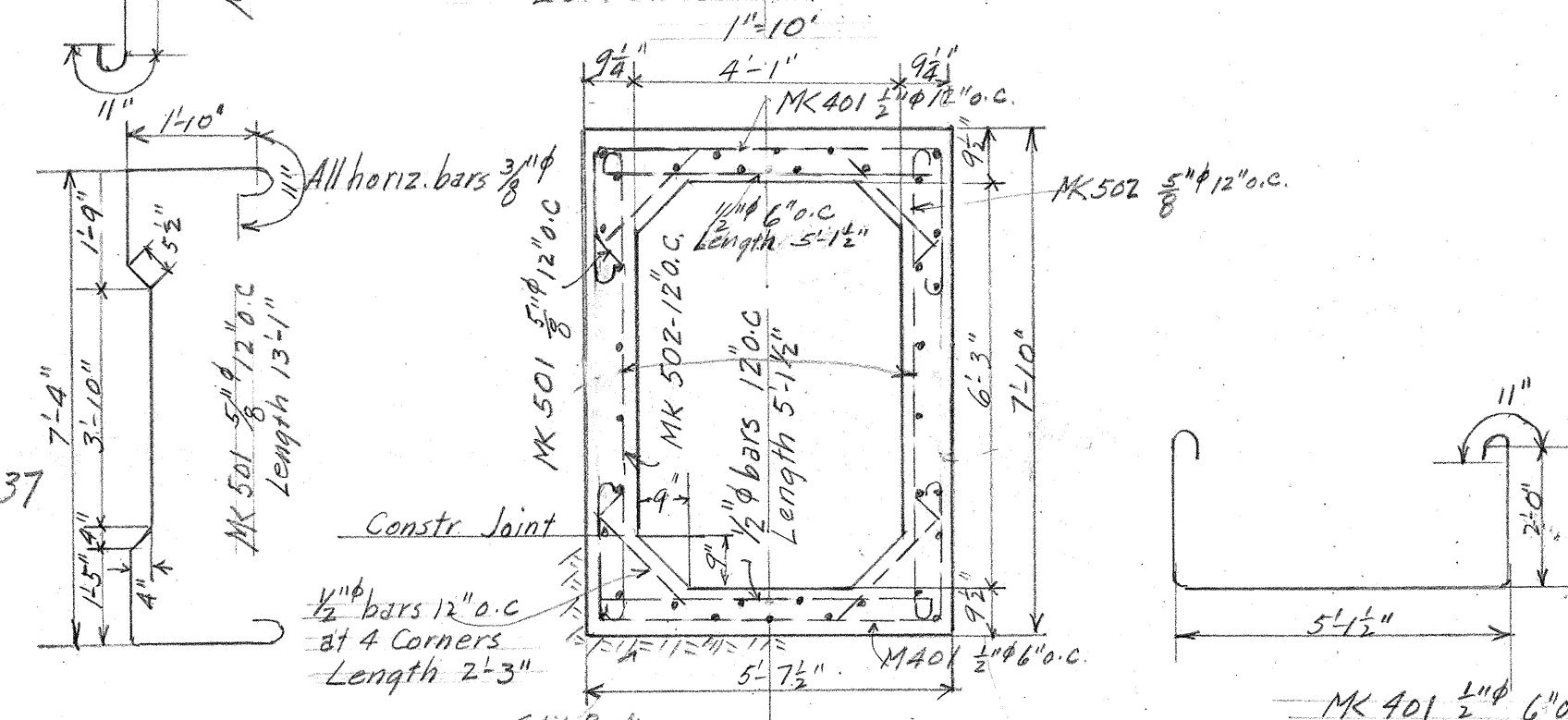
LOCATION PLAN SHOWING 6x4 R.C. CULVERT & EXISTING 4x8 C.R.M. AND CONCRETE CULVERT AND 4x6 R.C. CULVERT EXTENSION
1"=10'



TYPICAL SECTION OF EXISTING CULVERT AT STA. 306+37
3/8"=1 FT.
This structure is in excellent condition
Has been in service for the past 20 years
Serves overflow of spring above
Flow is continuous.
Bottom is solid rock throughout.
Dotted lines show position of 4x6 R.C. Culvert Extension
at connection with Existing Culvert



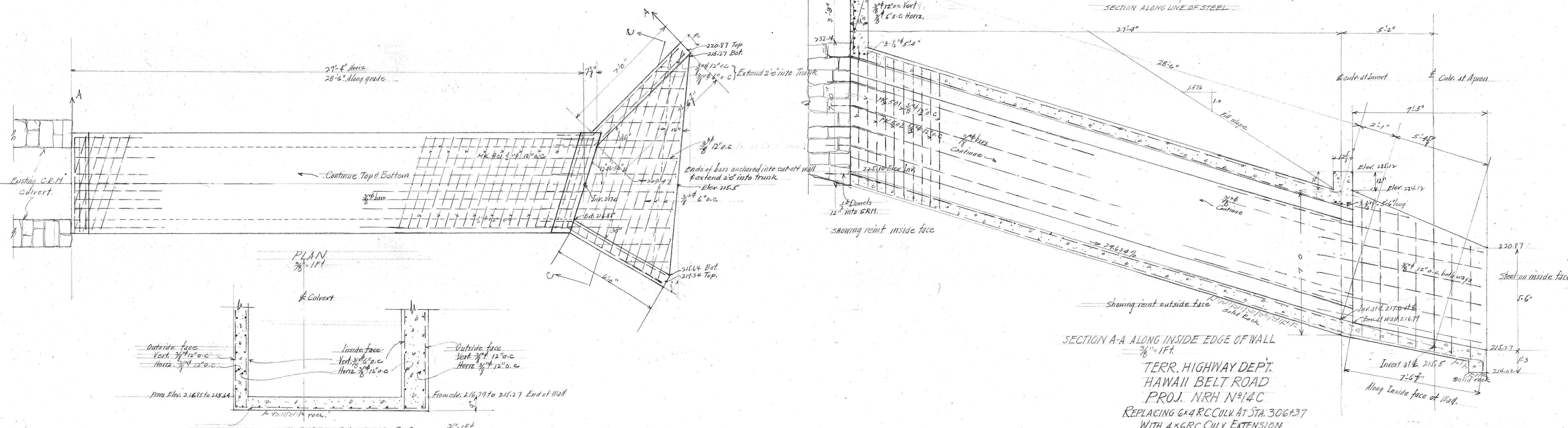
LONGITUDINAL SECTION THRU 4x6 R.C. CULVERT EXTENSION
1"=10'



TYPICAL SECTION THRU TRUNK OF 4x6 R.C. CULVERT EXTENSION
3/8"=1 FT.

Note: This section was adopted so as not to alter steel lengths.

SECTION ALONG LINE OF STEEL

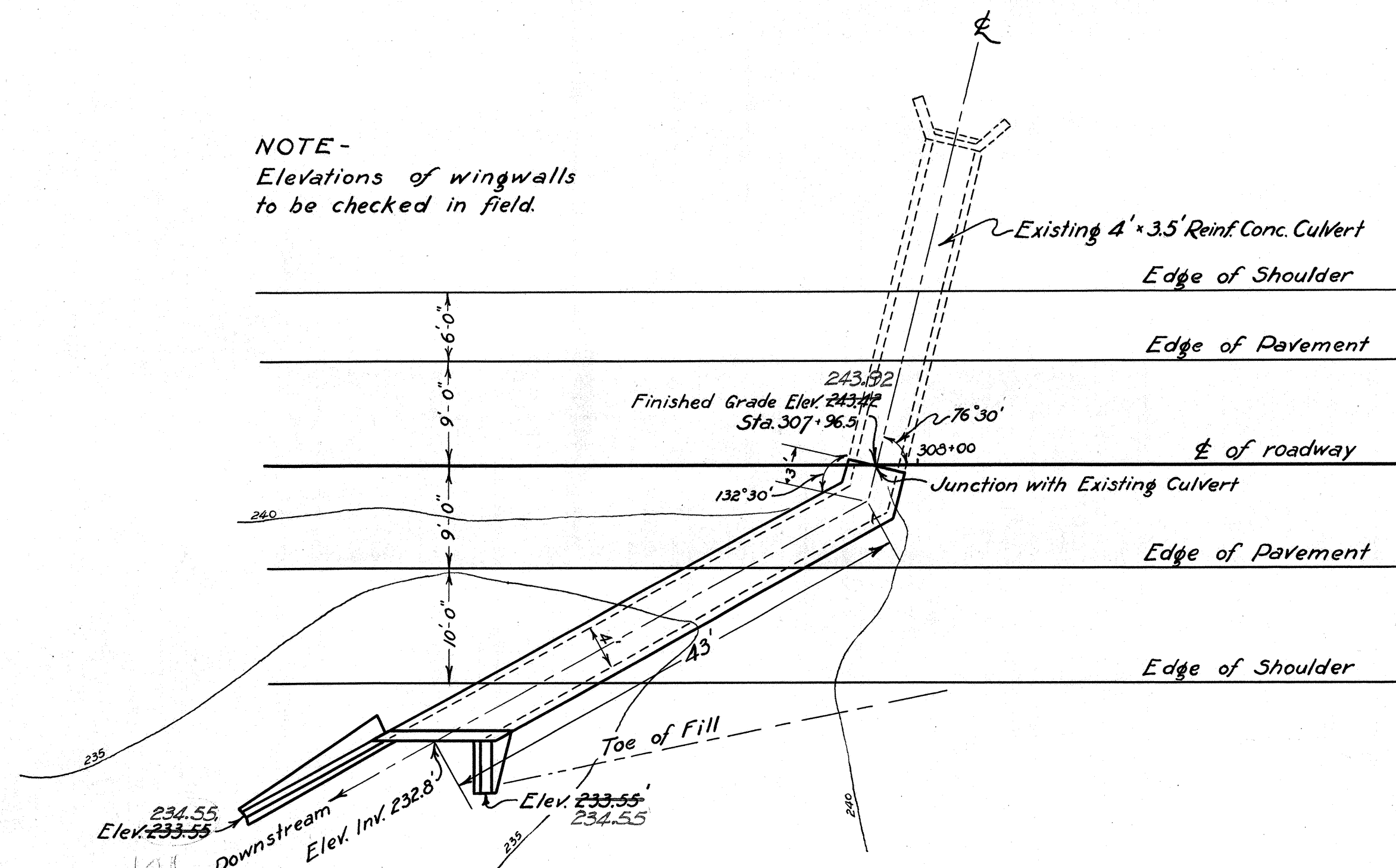


SECTION A-A ALONG INSIDE EDGE OF WALL
3/8"=1 FT.

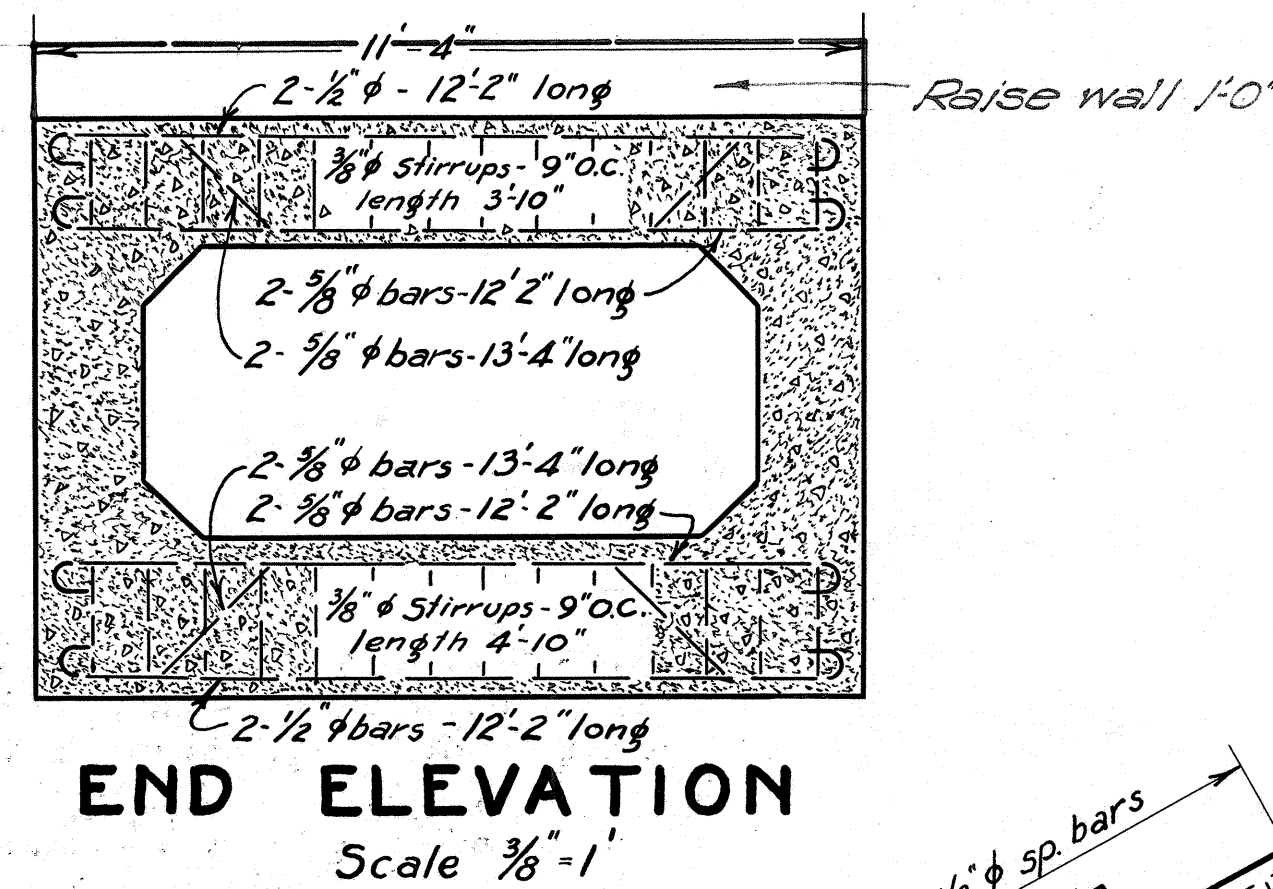
TERR. HIGHWAY DEPT.
HAWAII BELT ROAD
PROJ. NRH N°14C
REPLACING 6x4 R.C. CULV. AT STA. 306+37
WITH 4x6 R.C. CULV. EXTENSION

N.O. #6

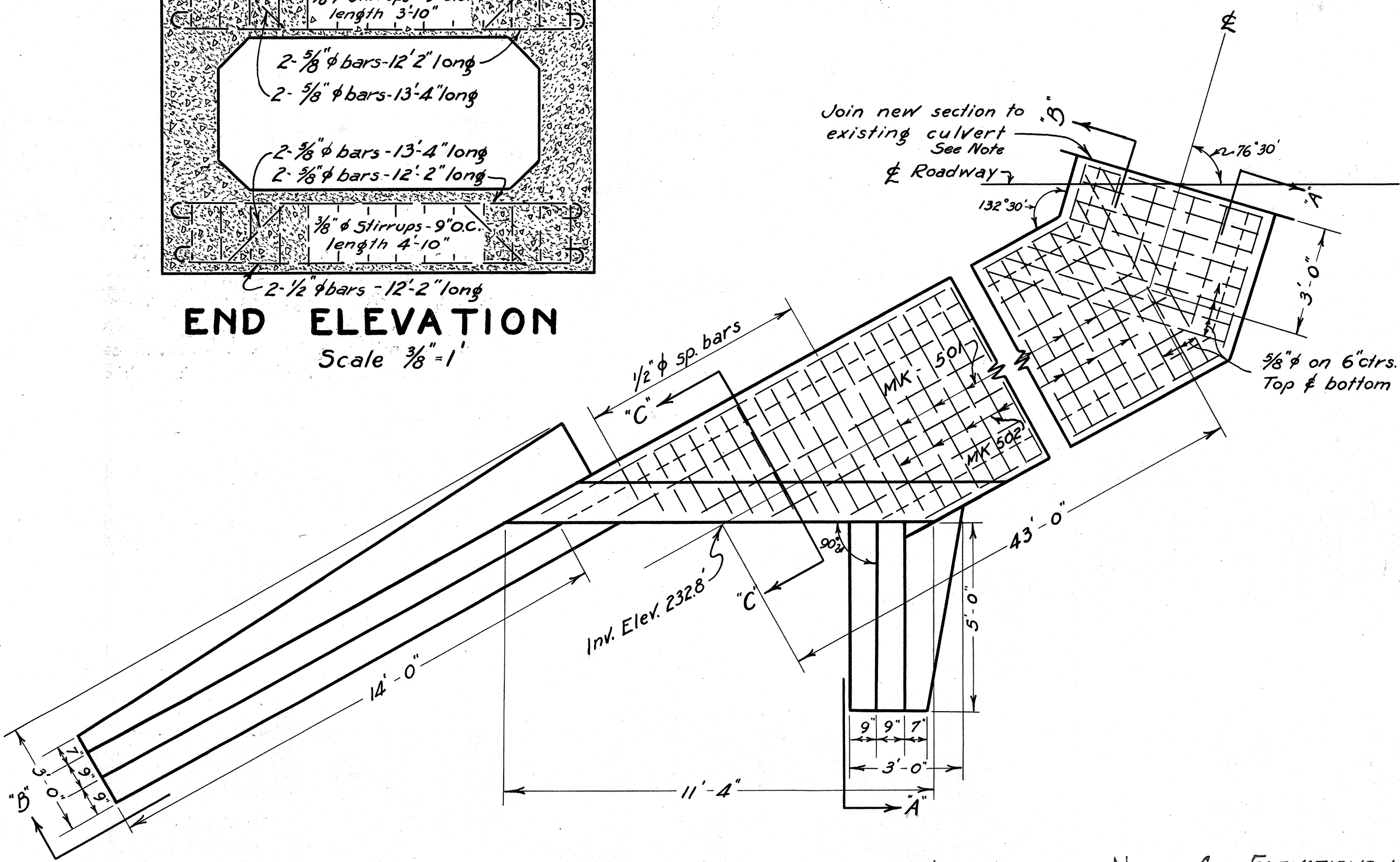
NOTE -
Elevations of wingwalls to be checked in field.



LOCATION PLAN
Scale 1"=10'



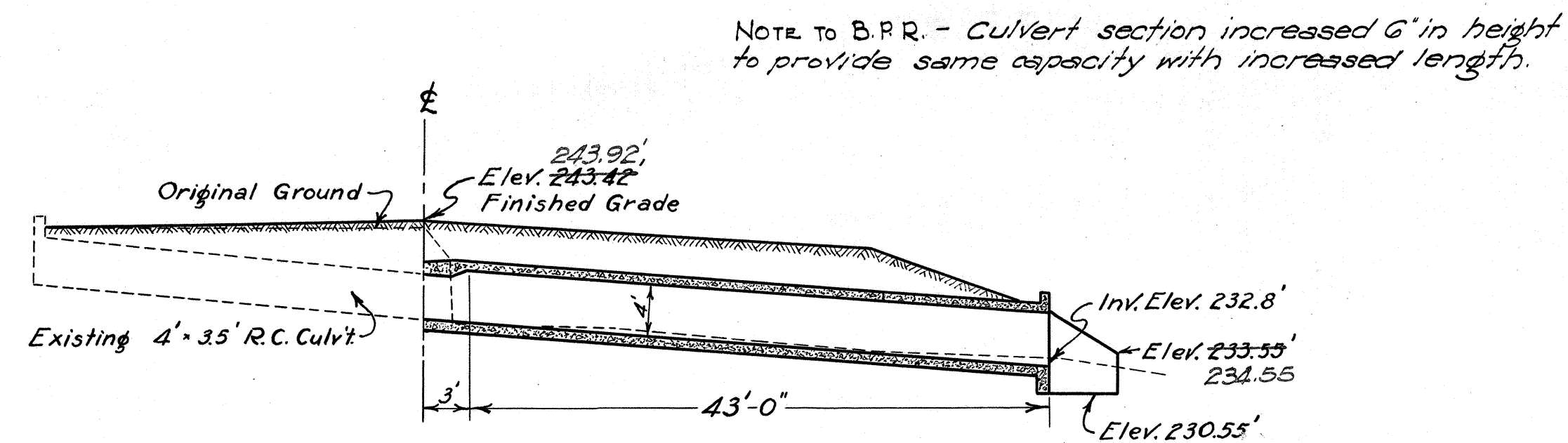
END ELEVATION
Scale 3/8"=1'



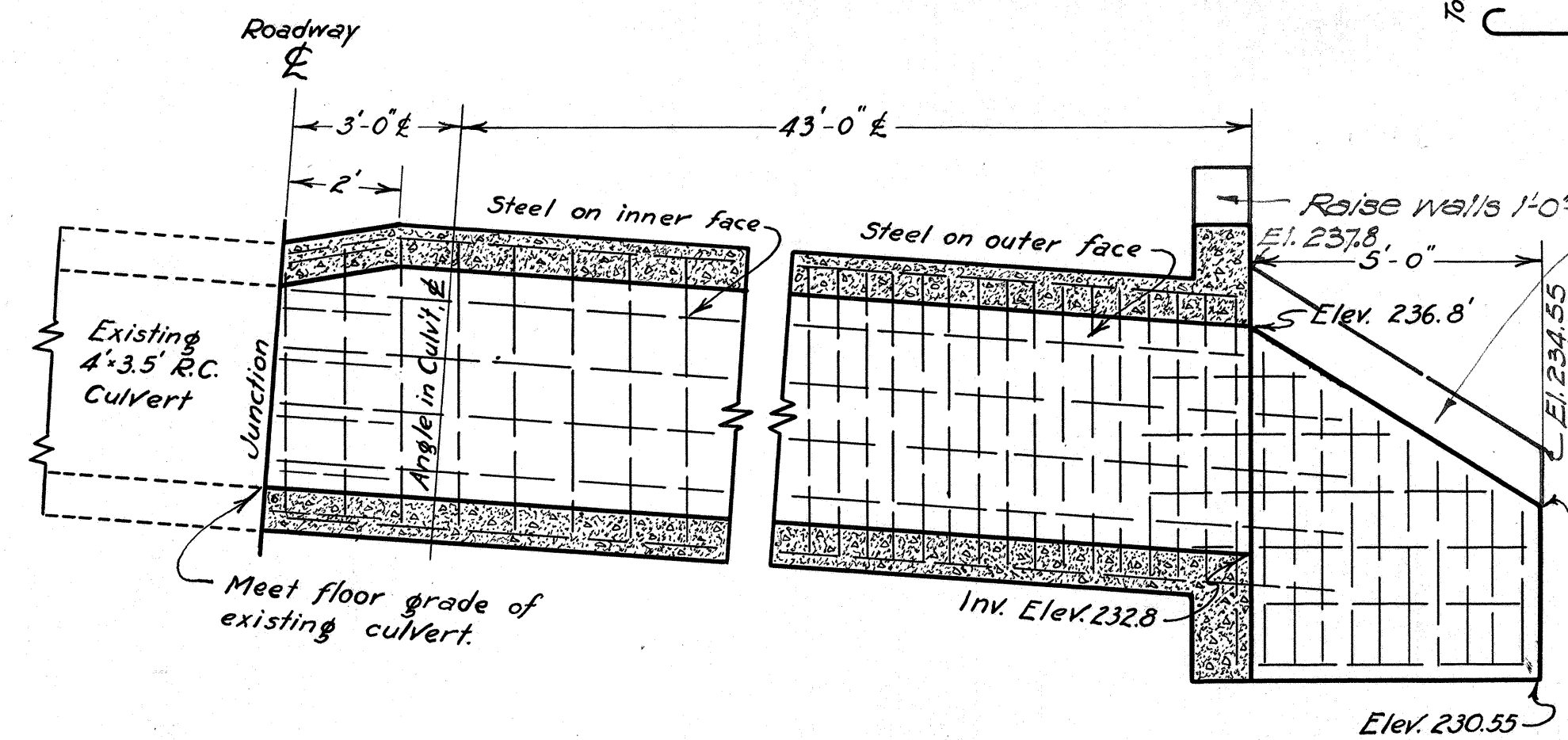
PLAN of CULVERT
Scale 3/8"=1'

NOTE -
Trunk of existing culvert to be broken down and removed for at least 2', exposing reinforcing for that length. New section to be joined as indicated making splices between old and new steel.

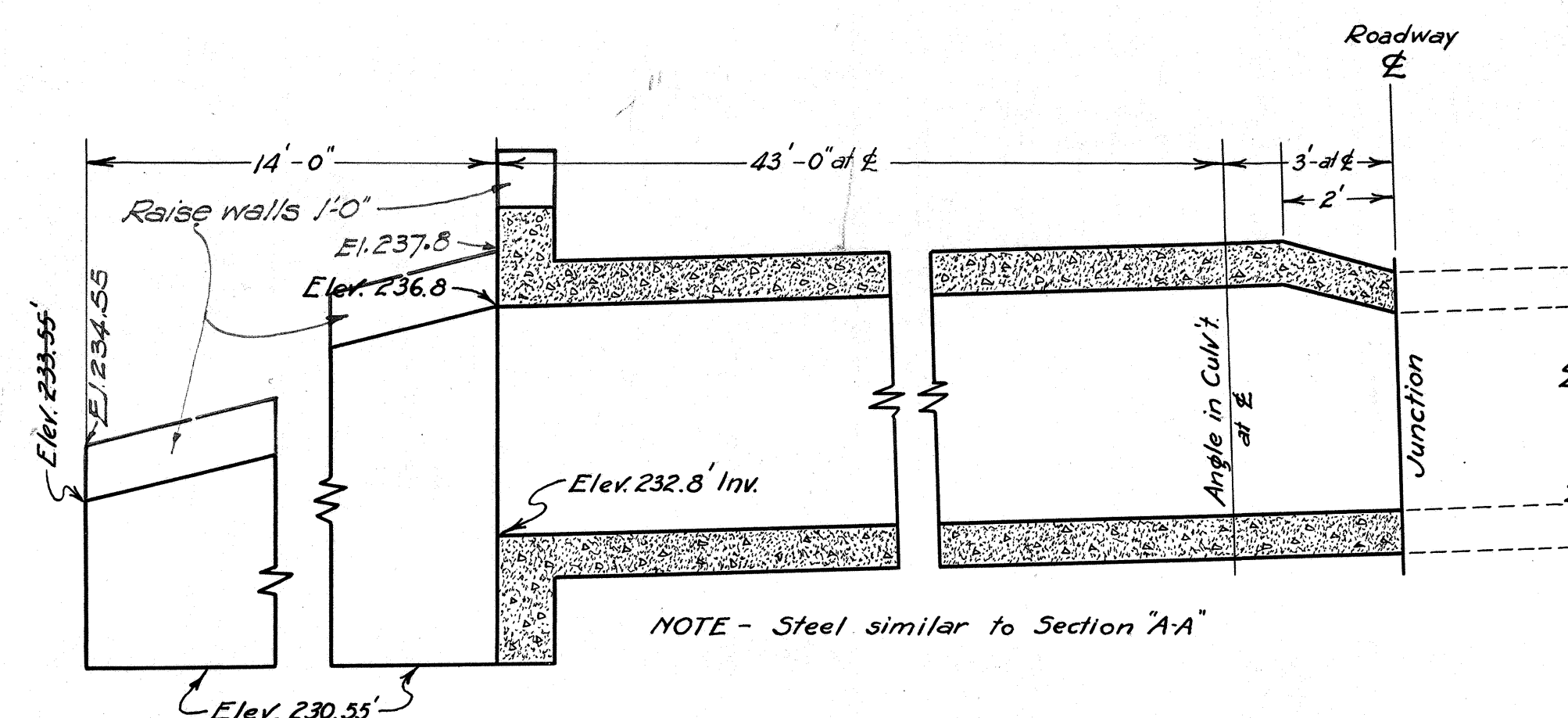
NOTE: ALL ELEVATIONS NOT CHANGED ARE SATISFACTORY FOR REVISED CONDITIONS



LONG'T SECT. THRU CULVERT ON
Scale 1"=10'

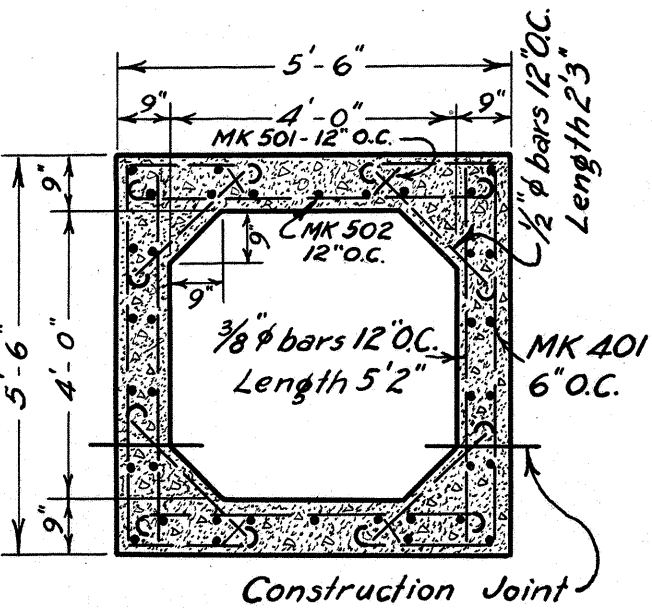
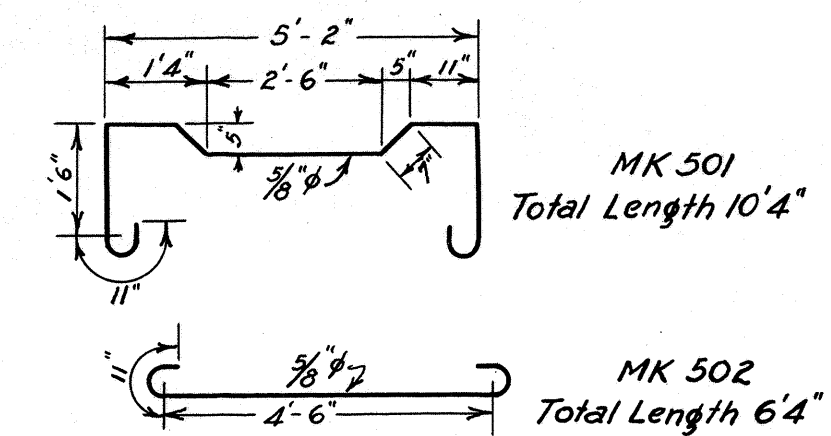


SECTION "A-A"
Scale 3/8"=1'



SECTION "B-B"
Scale 3/8"=1'

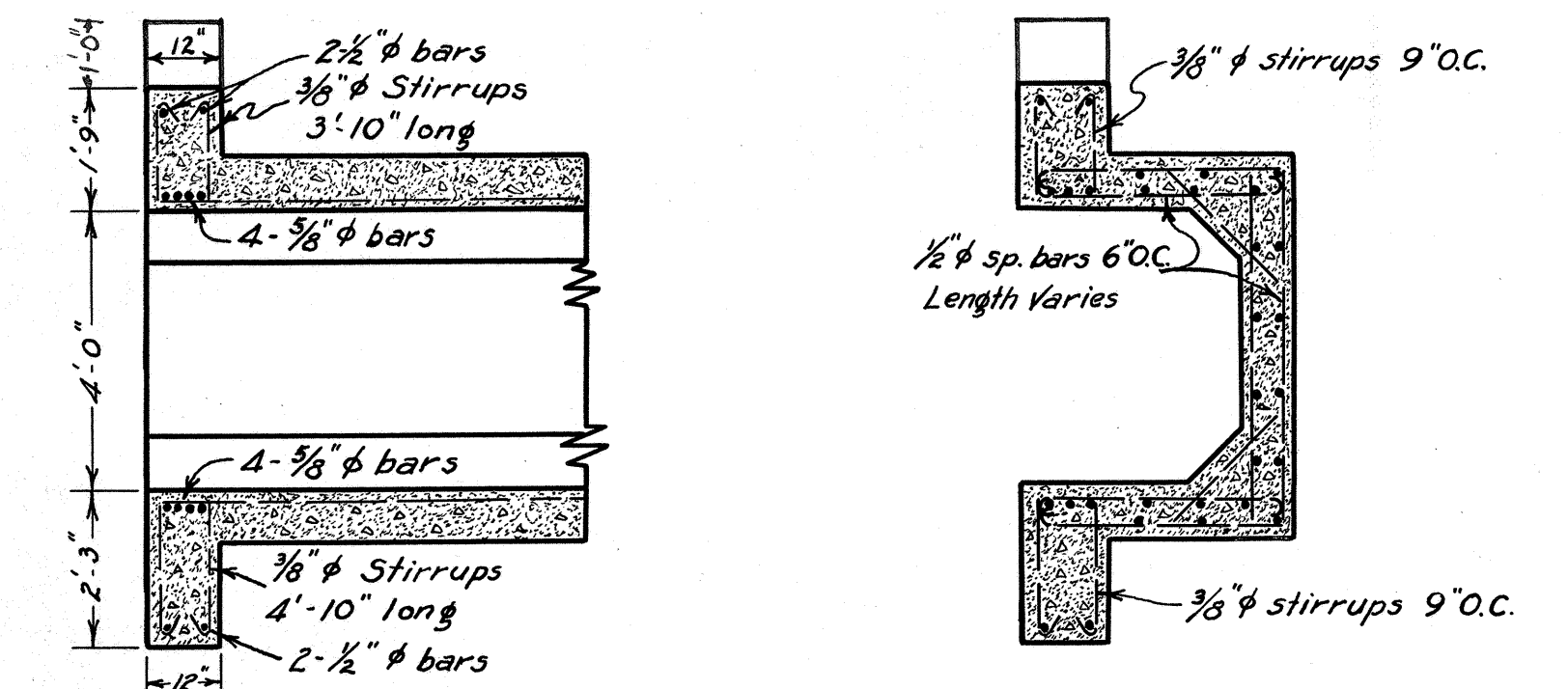
NOTE - Steel similar to Section "A-A"



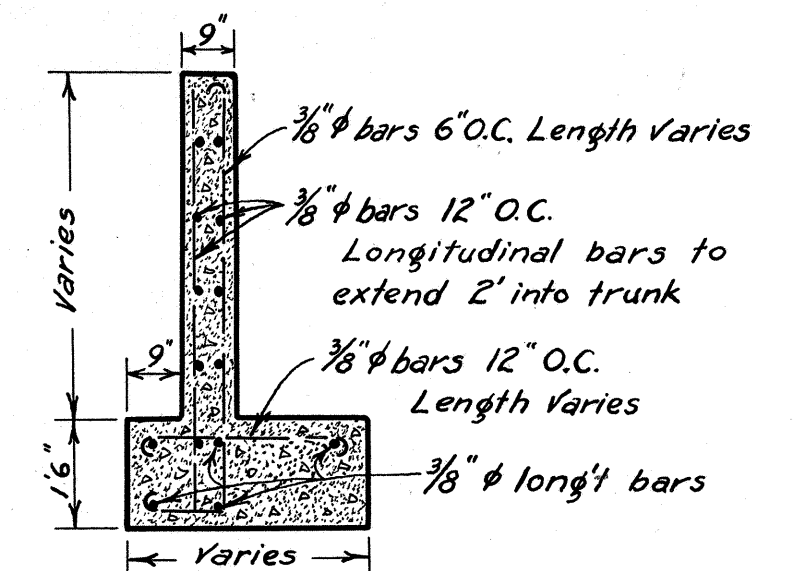
SECTION of NEW TRUNK

SECTION of EXISTING TRUNK

NOTE -
All horizontal bars are 3/8" - 12" O.C. or as noted.
All horizontal 3/8" bars to extend 2' into wingwalls.
Center of steel bars to be 2 1/2" from face of concrete.



SECTION THRU END
Scale 3/8"=1'



TYPICAL WINGWALL SECT.

DETAILS

4' x 4' CULVERT EXTENSION
STA. 307+96.5
N.R.H. 14C

QUANTITIES

Concrete	32.70	cu. yds.
Steel	31.752	lbs.
Struct. Exc.	40.0	cu. yds.
Channel Exc.	10.0	cu. yds.

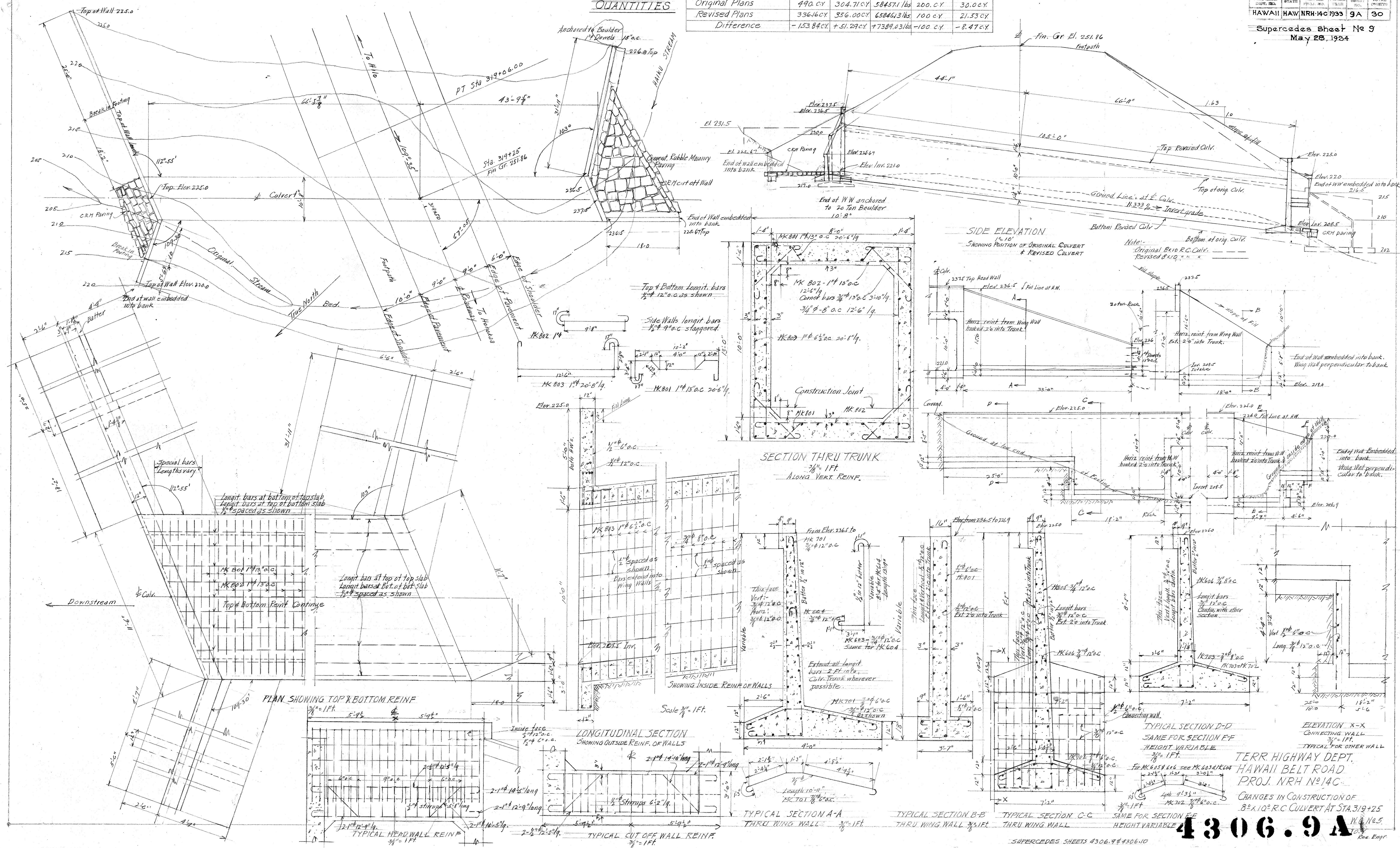
4306.8

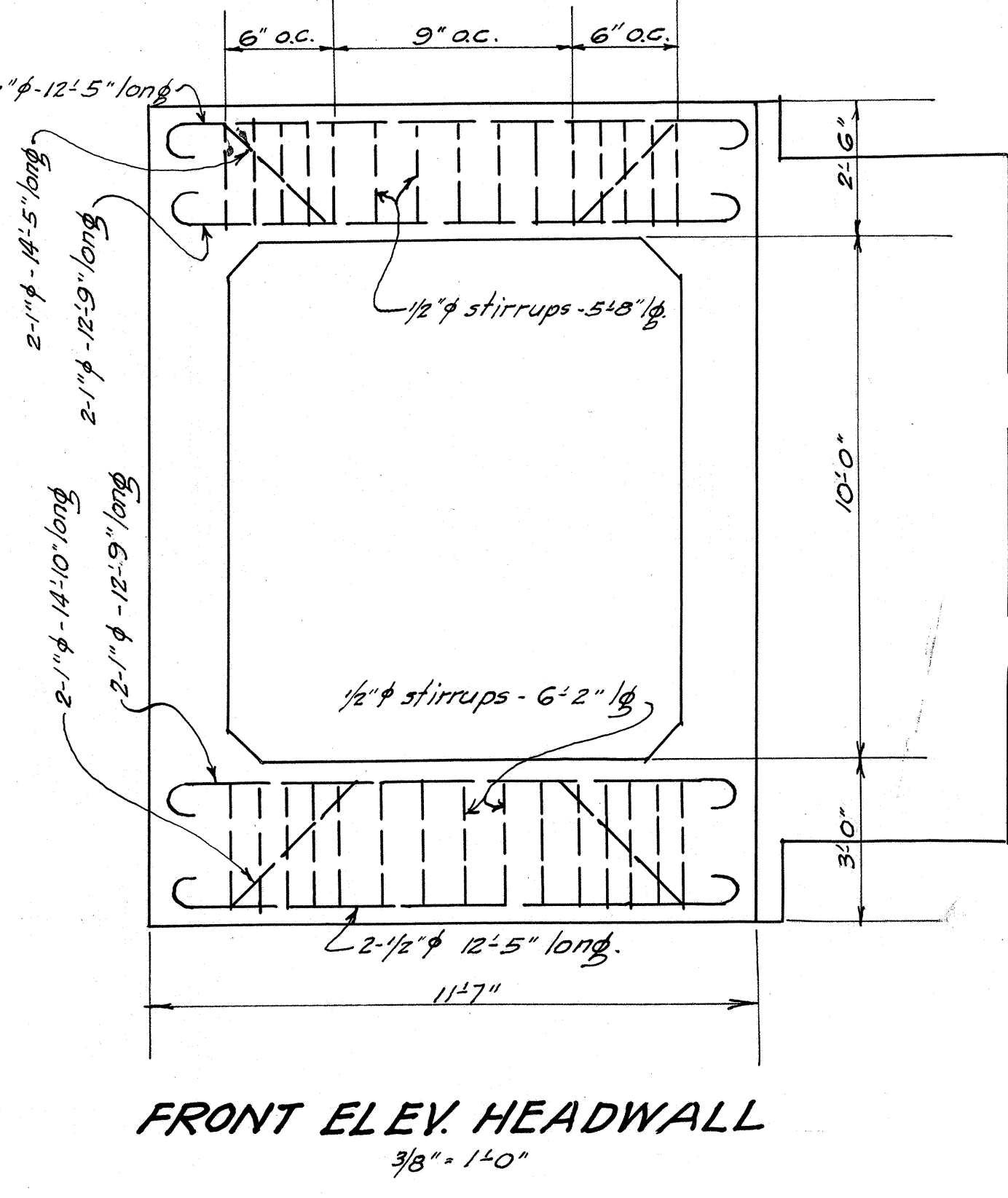
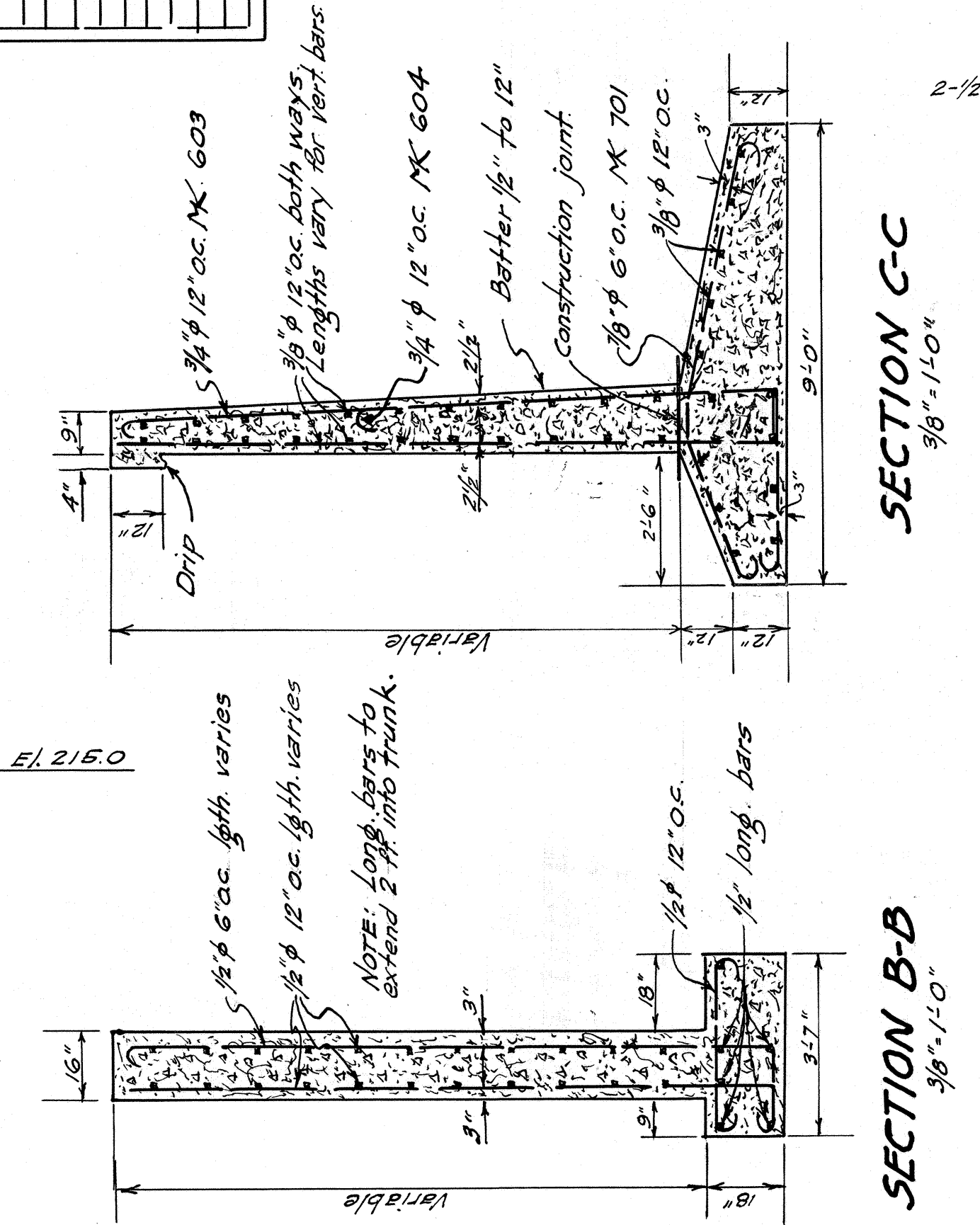
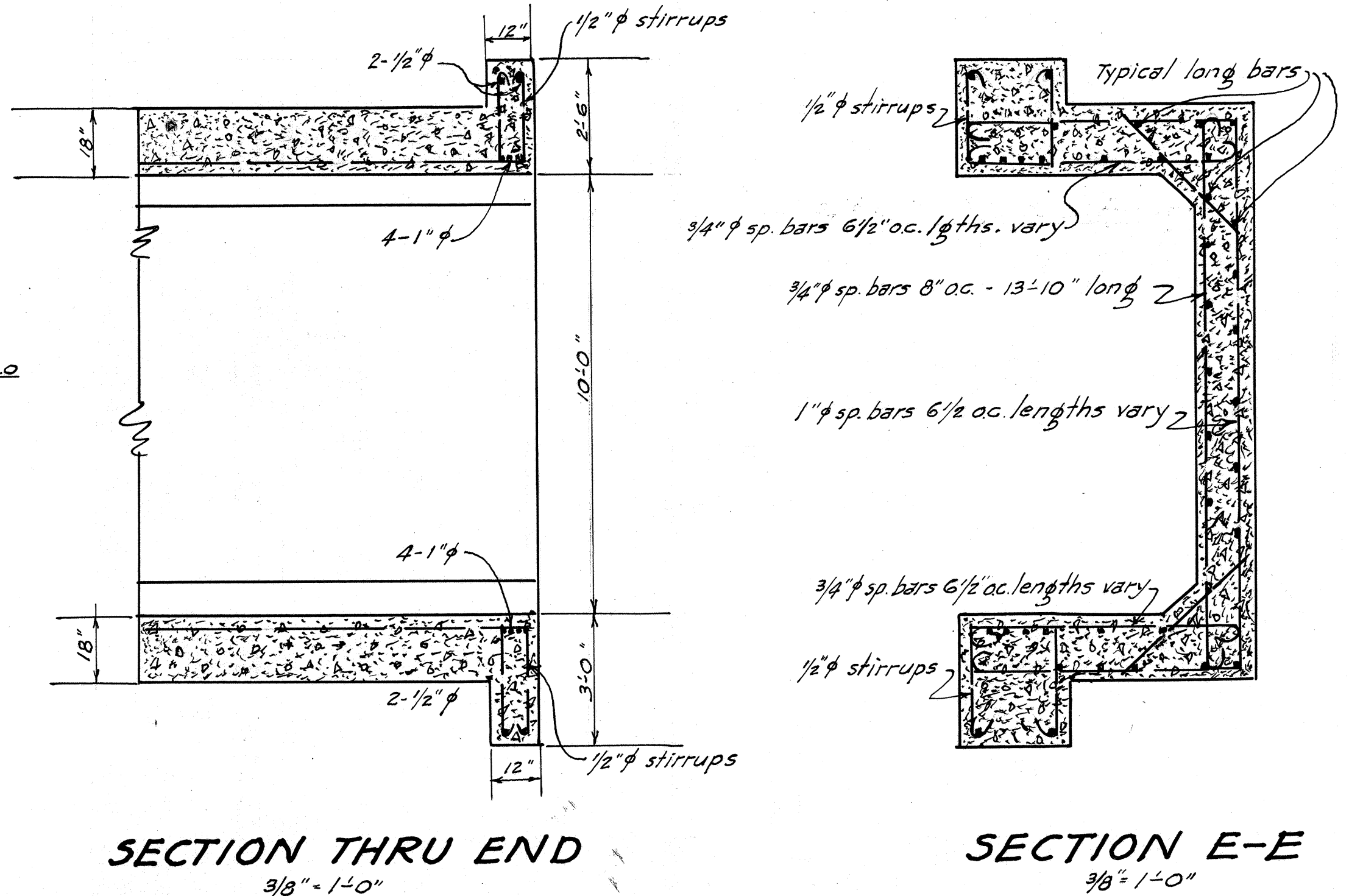
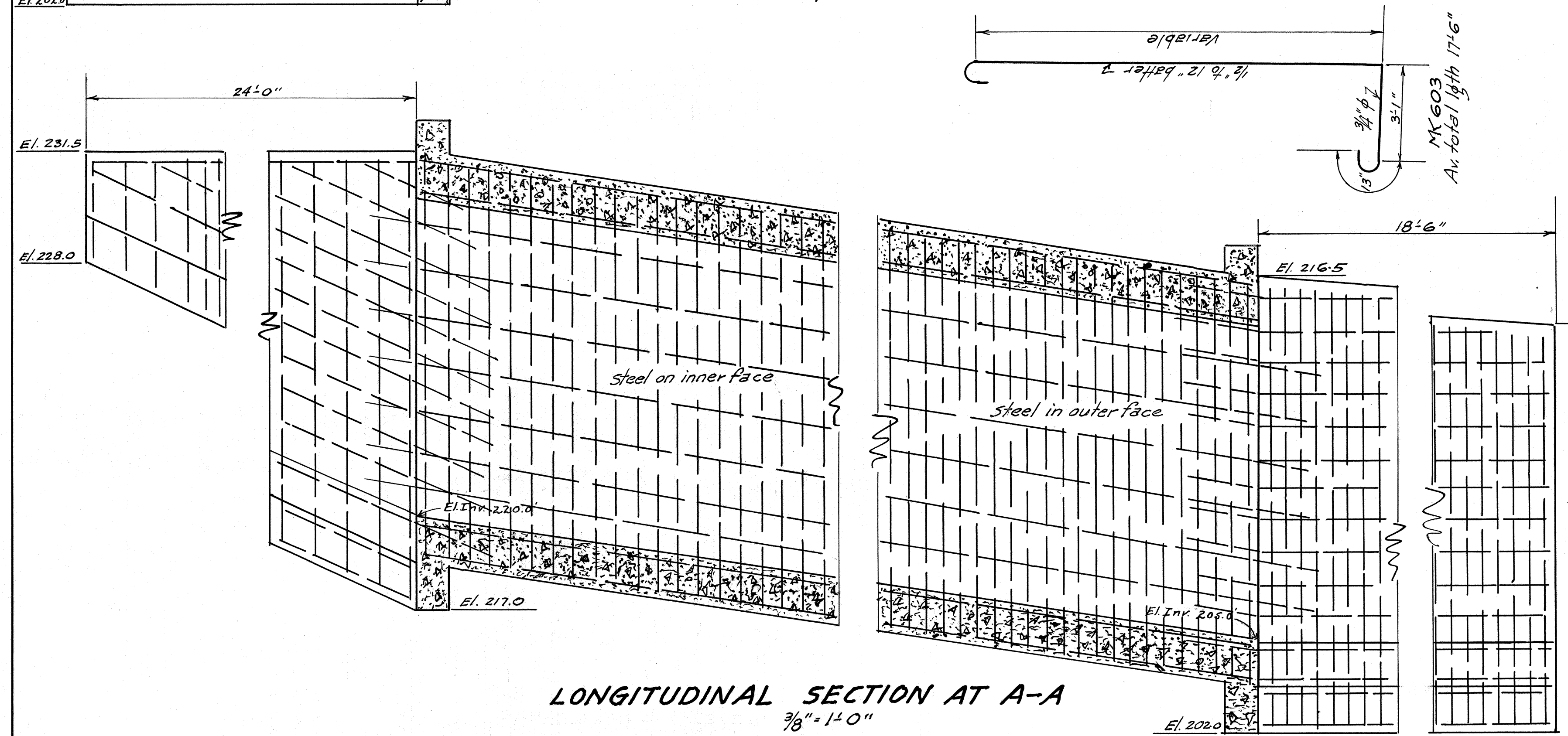
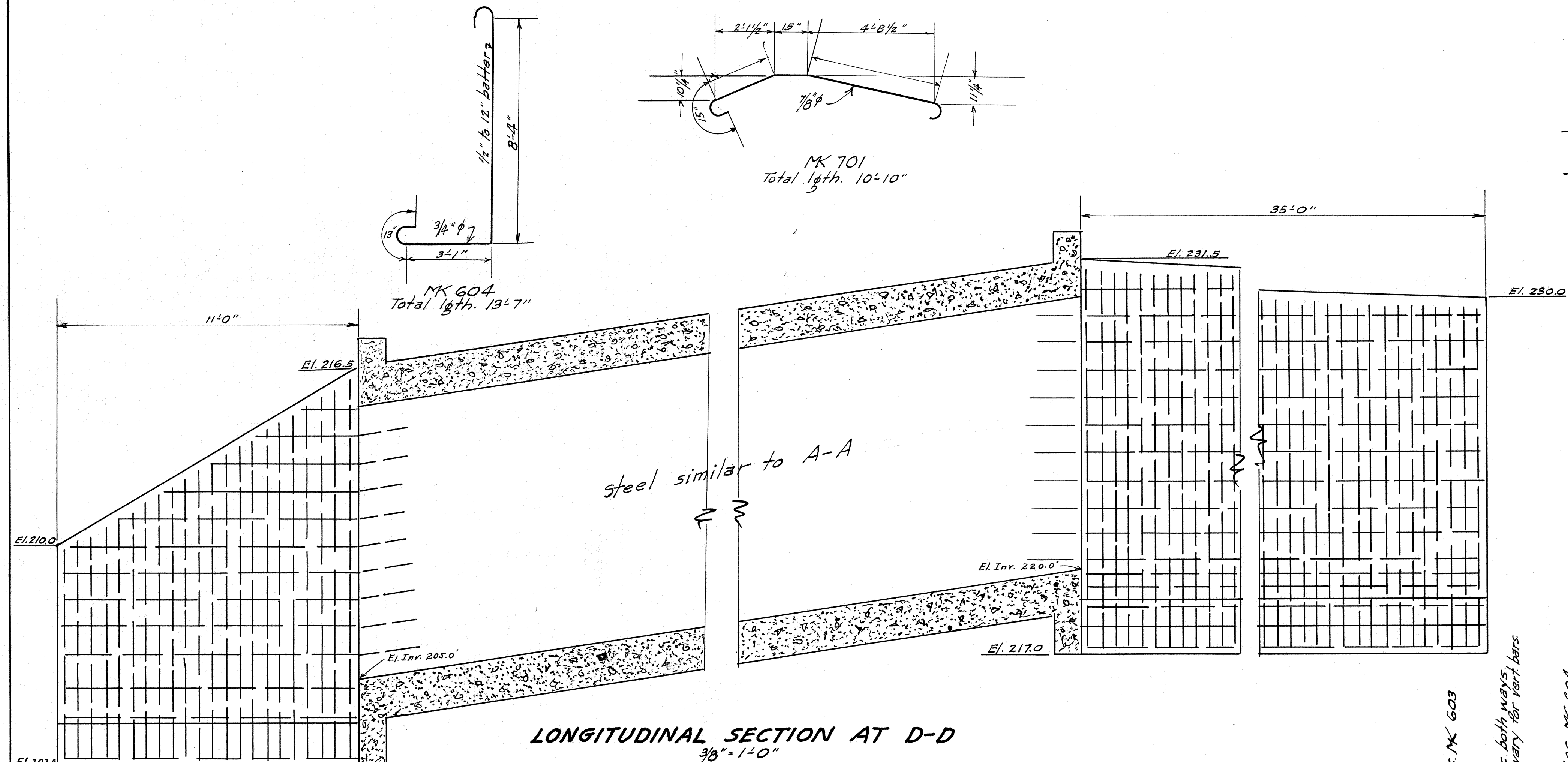
QUANTITIES

Structure	Str. Exc.	Concrete	Reinf.	Chan. Exc.	CRM Paving
Original Plans	490.00	304.71	58457.1 lbs	200.00	30.00
Revised Plans	336.16	356.00	65846.13 lbs	100.00	21.53
Difference	-153.84	+51.29	+7389.03 lbs	-100.00	-8.47

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
HAWAII	NRH-14C-1933	9A	30

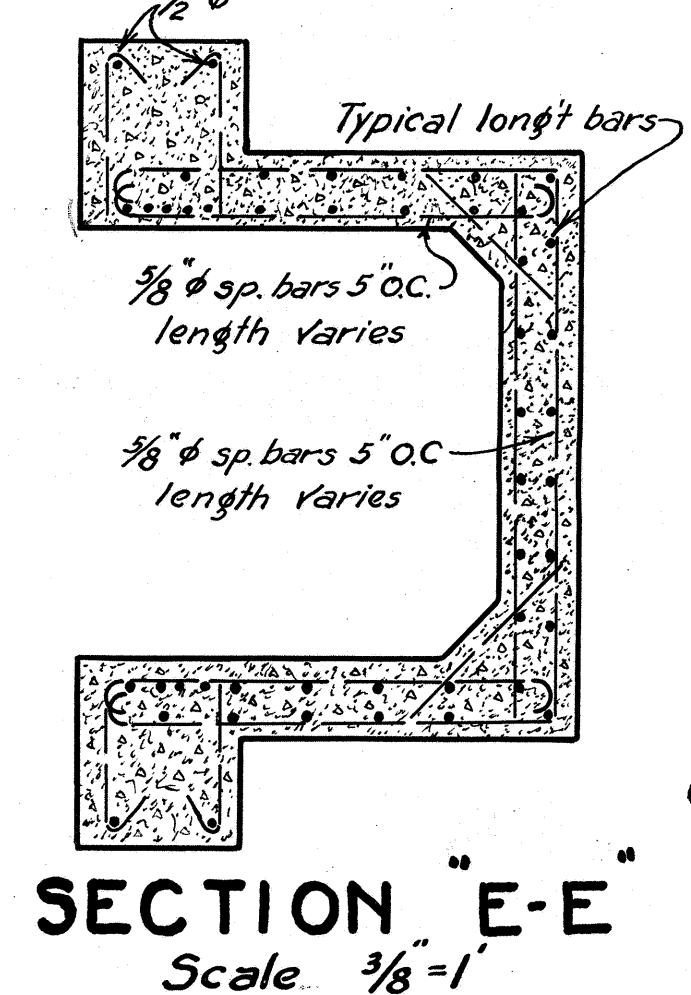
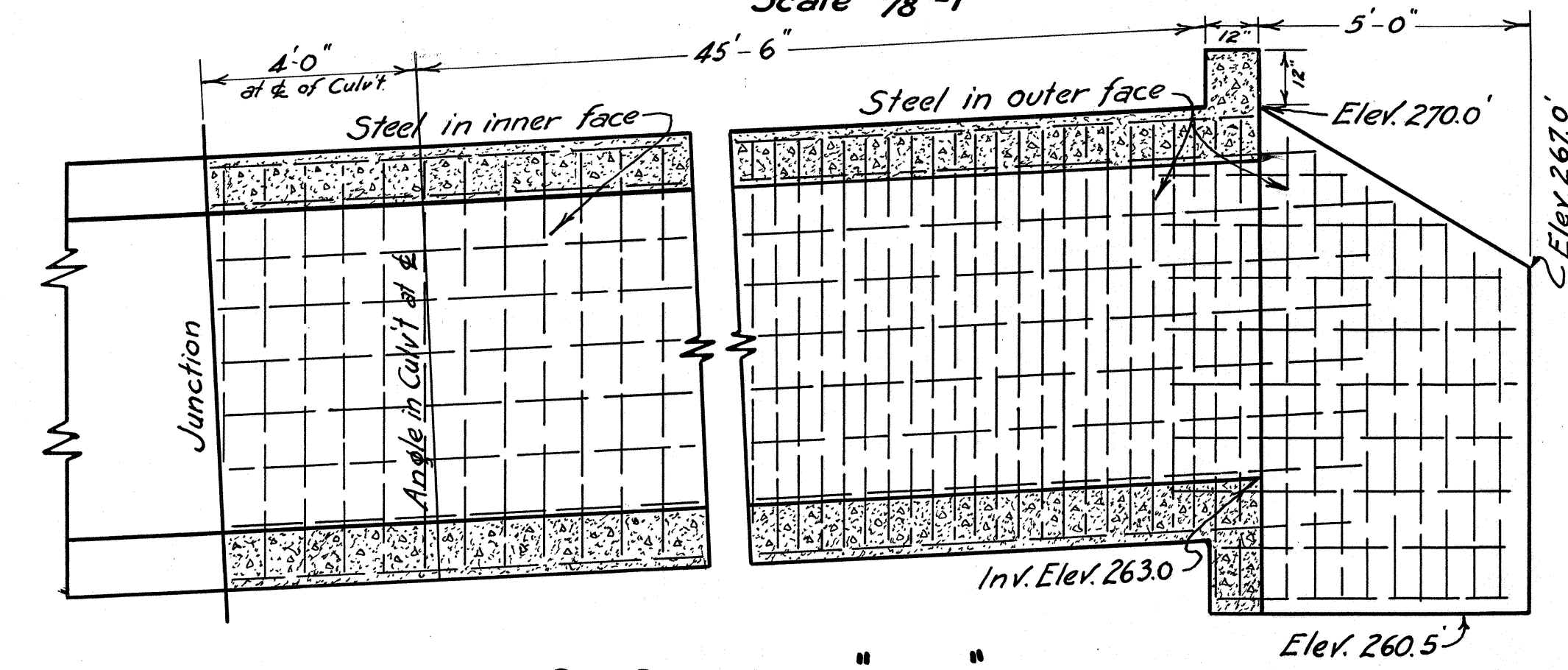
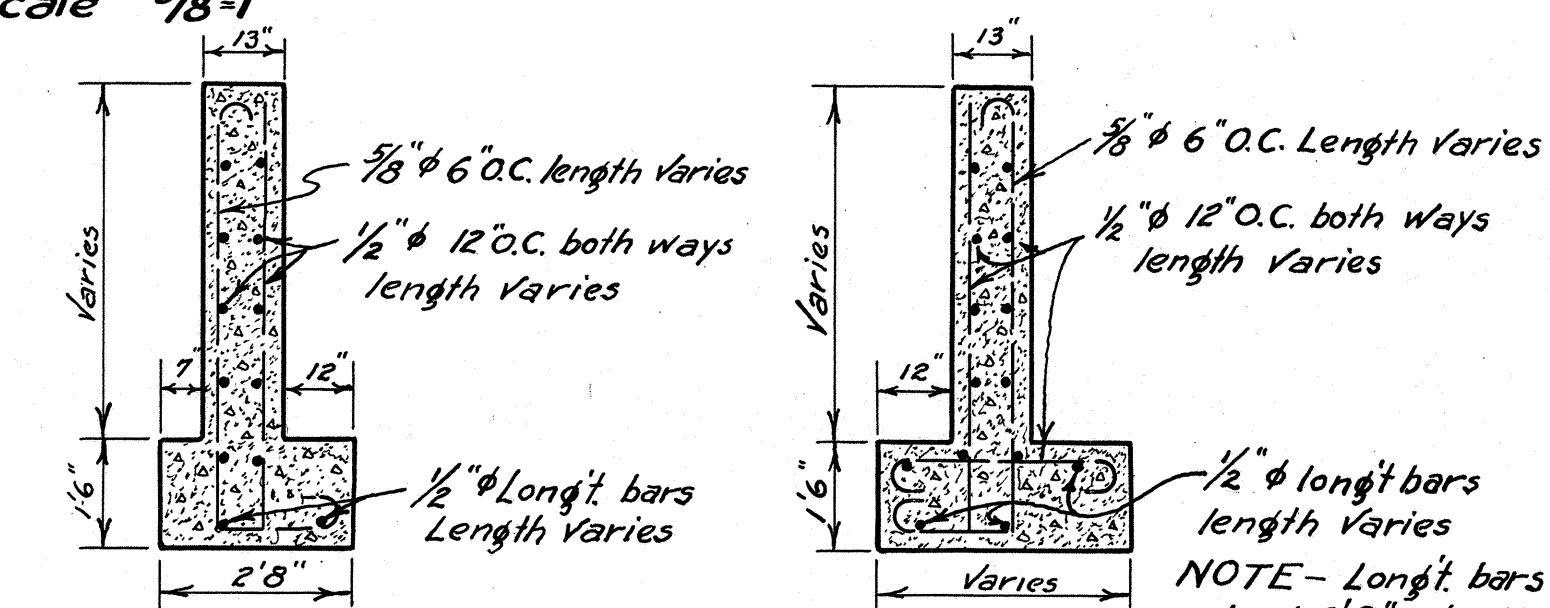
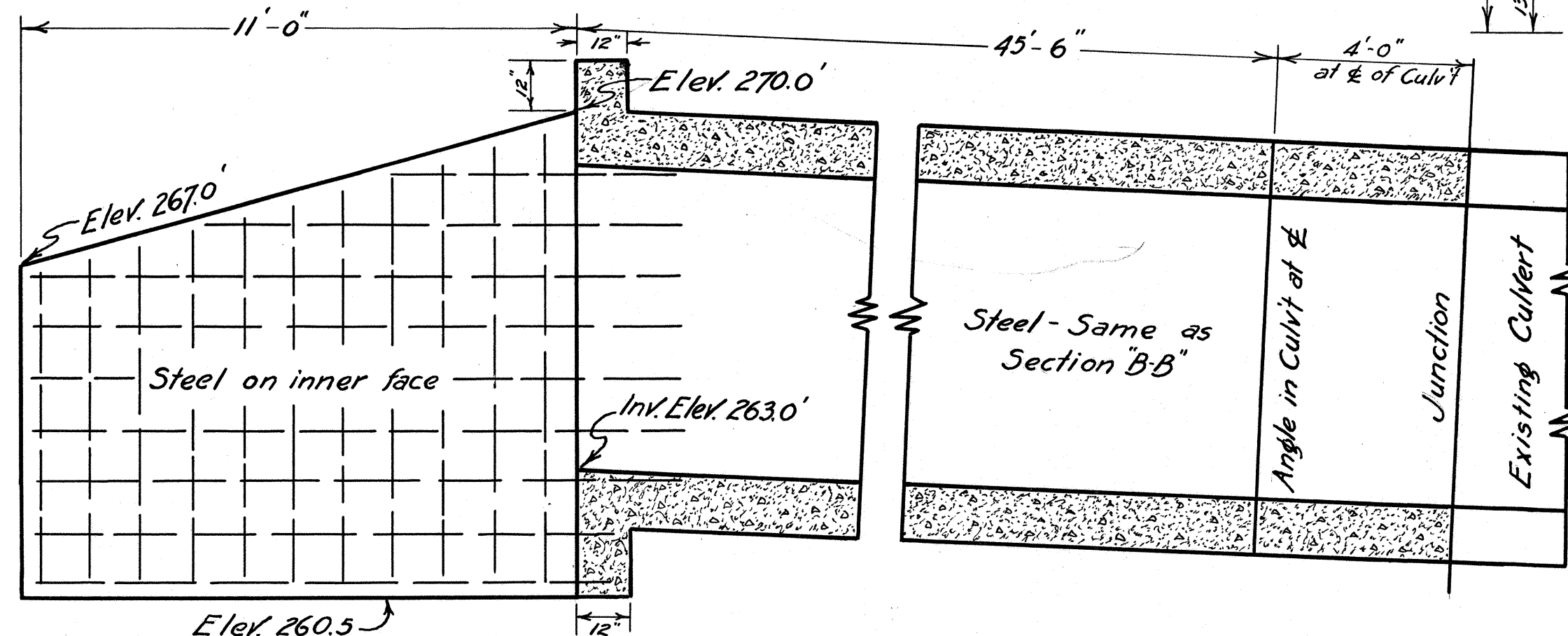
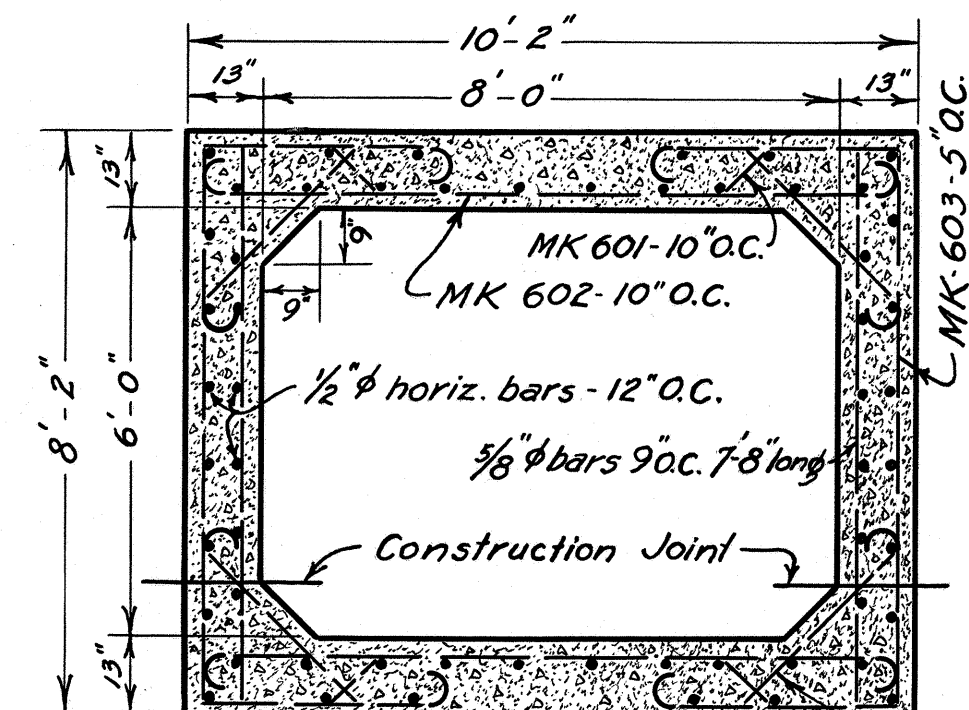
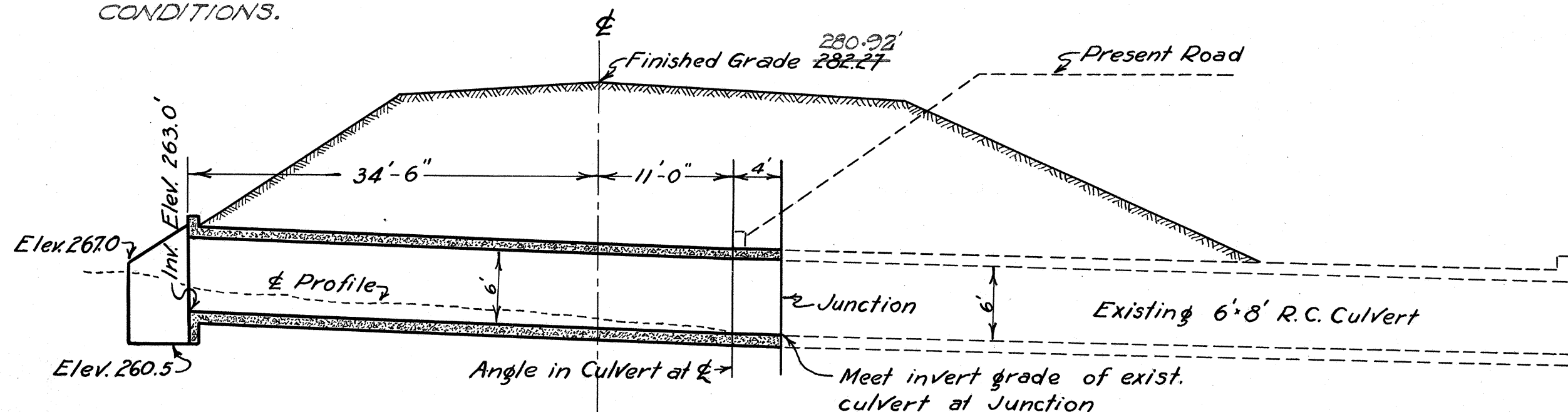
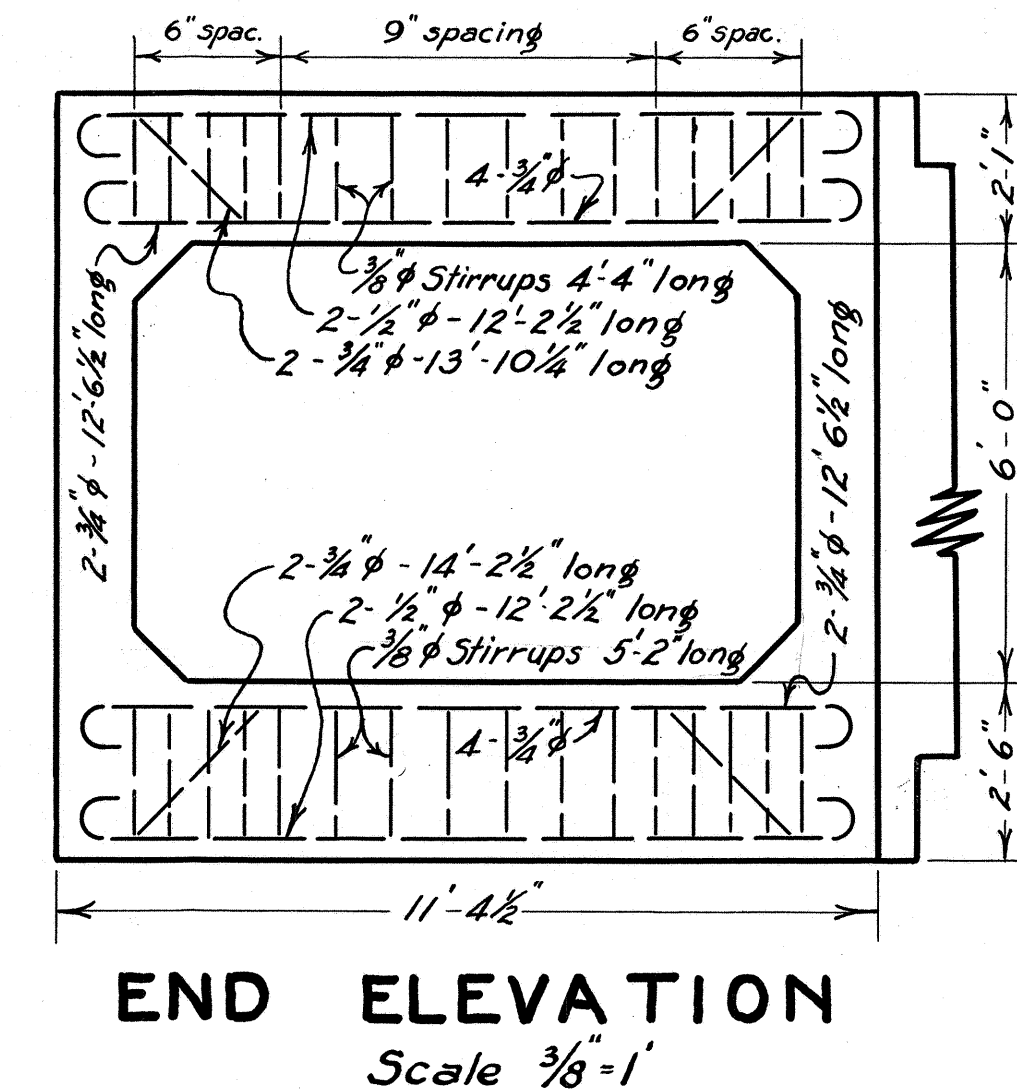
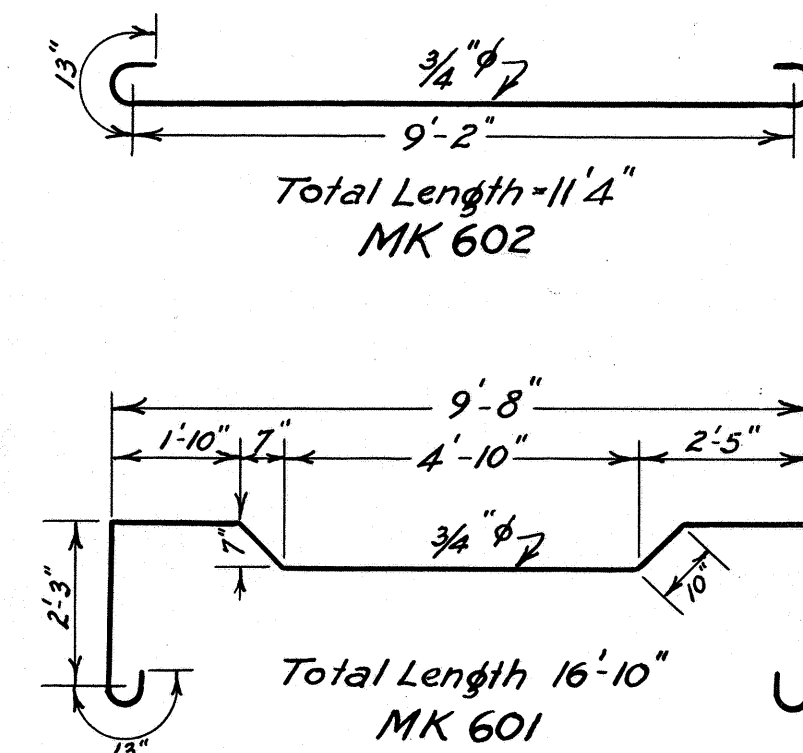
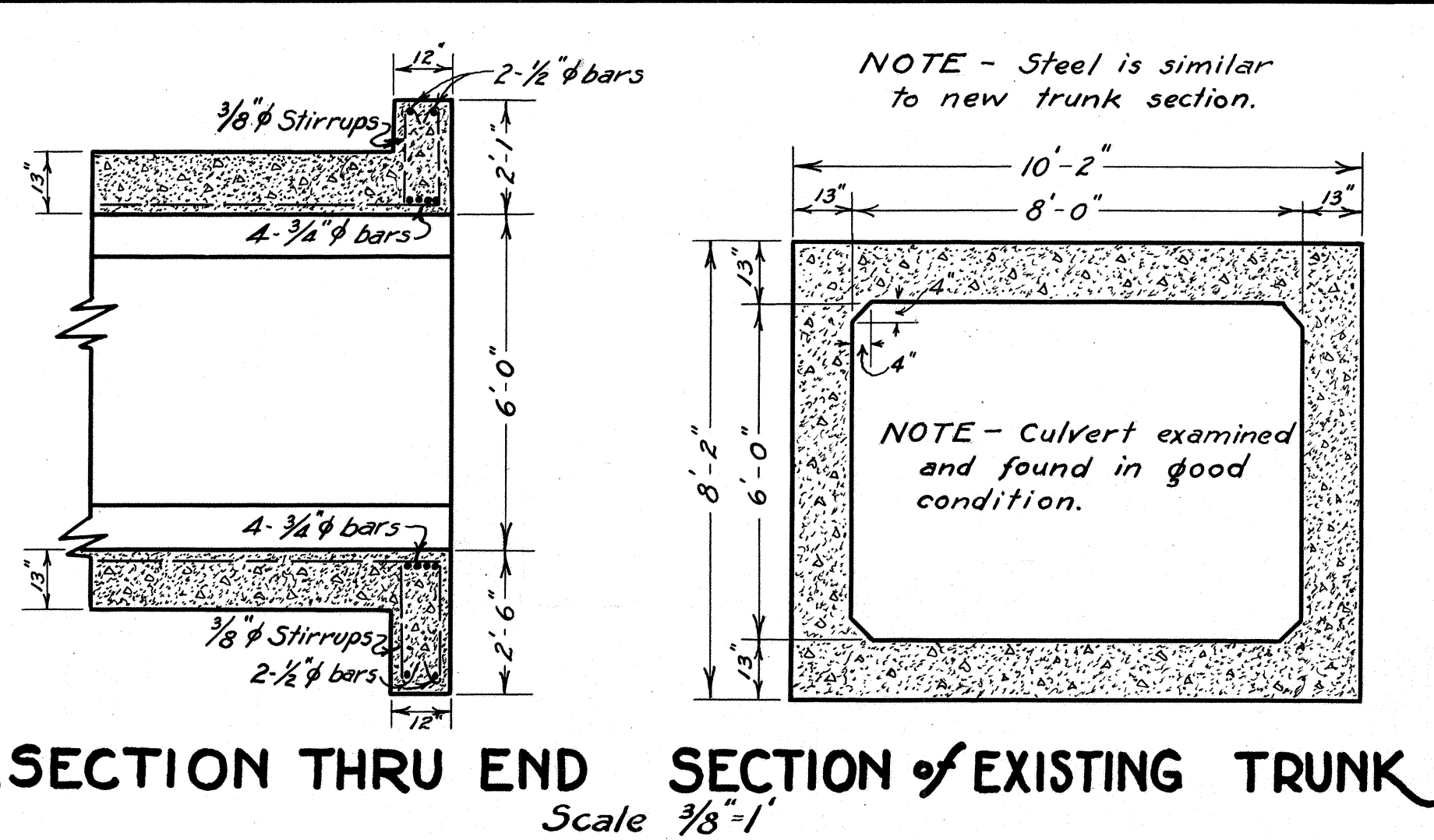
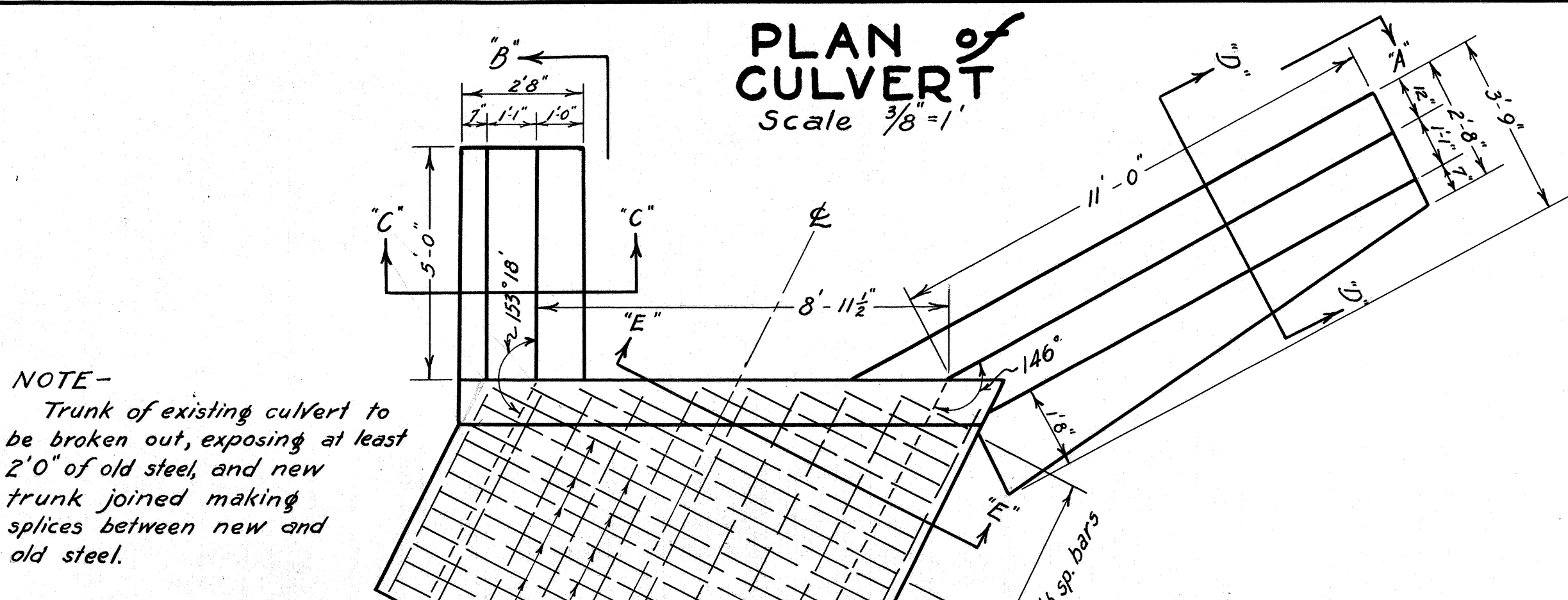
Supersedes Sheet No 9
May 28, 1934





8'x10' REINFORCED CONC. BOX CULVERT
STA 319+25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	N.R.H. 14C	1933	11	30



QUANTITIES

Concrete	75.307 cu.yds.
Steel	15,620.4 lbs.
Struct. Exc.	96.0 cu.yds.
Channel Exc.	10.0 cu.yds.

DETAILS of 8'x6' CULVERT EXTENSION
STA. 370+08
N.R.H. 14C
4306.11

ORIGINAL	DATE
PLAN	8/33
NOTES	10/33
QUANTITIES	11/33
REVISIONS	2/34

