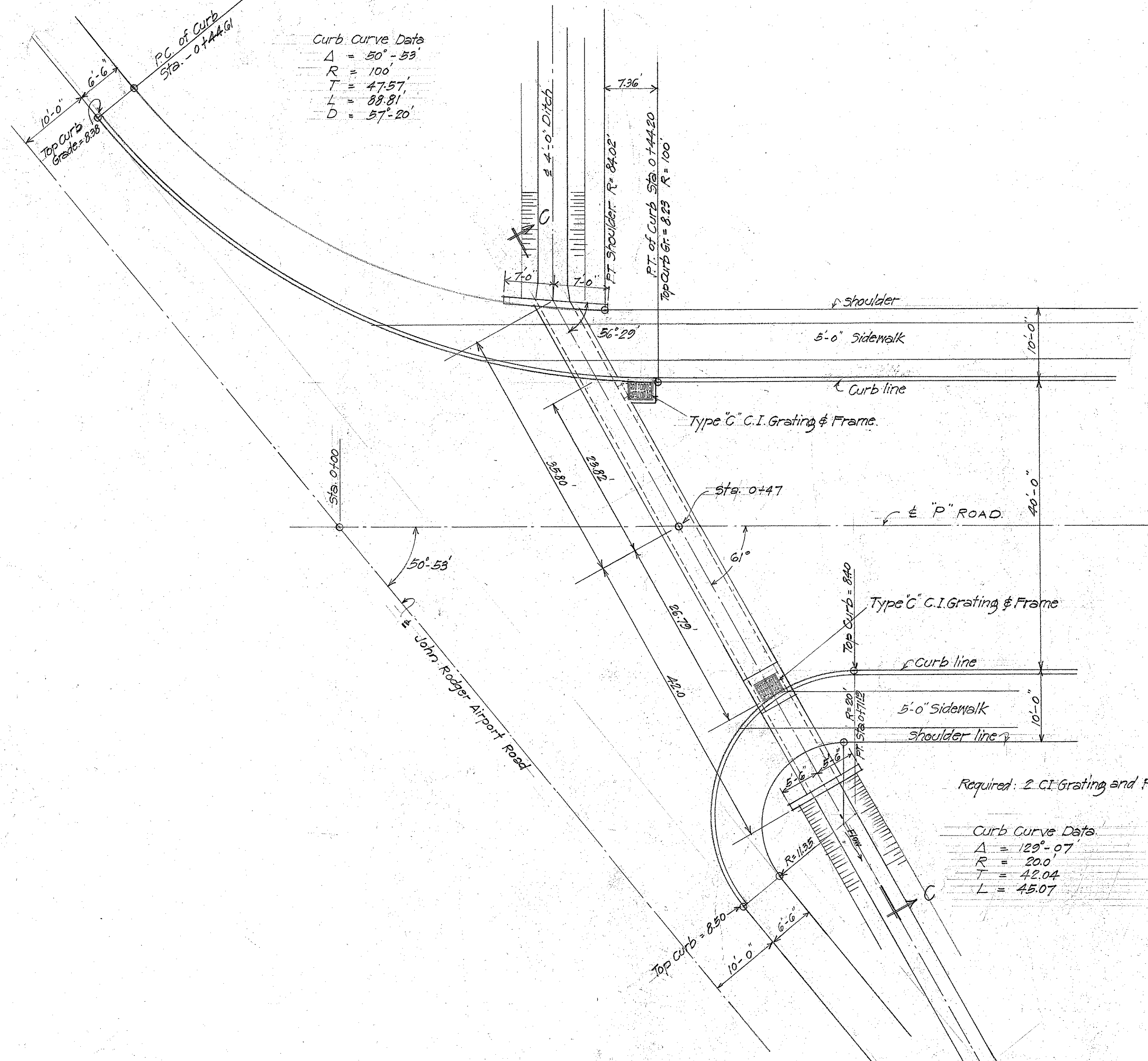
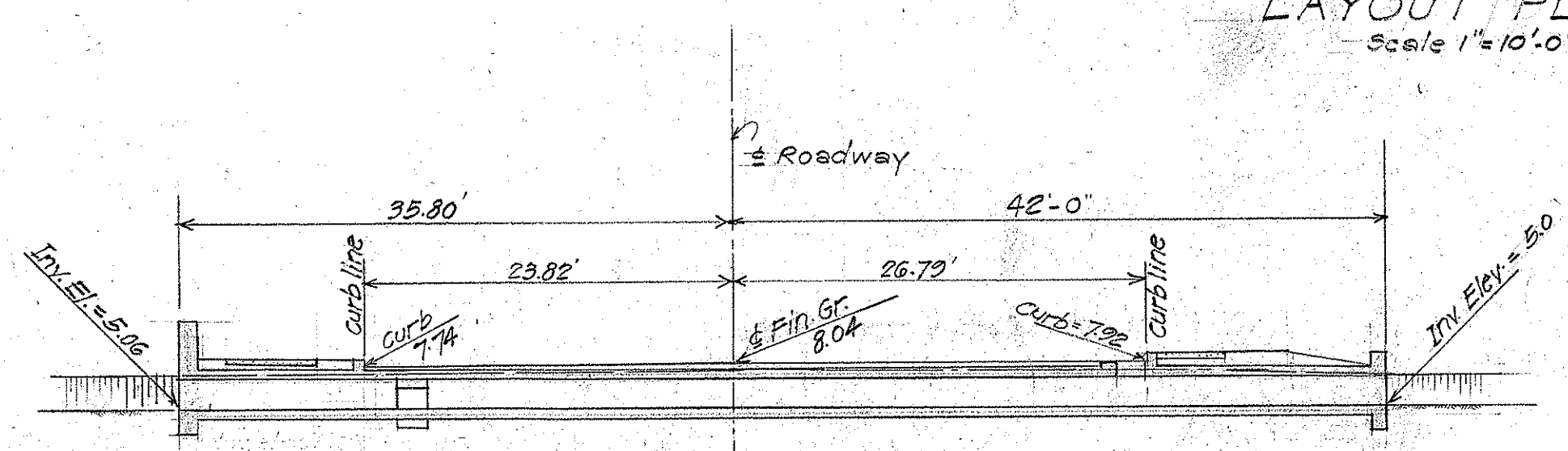




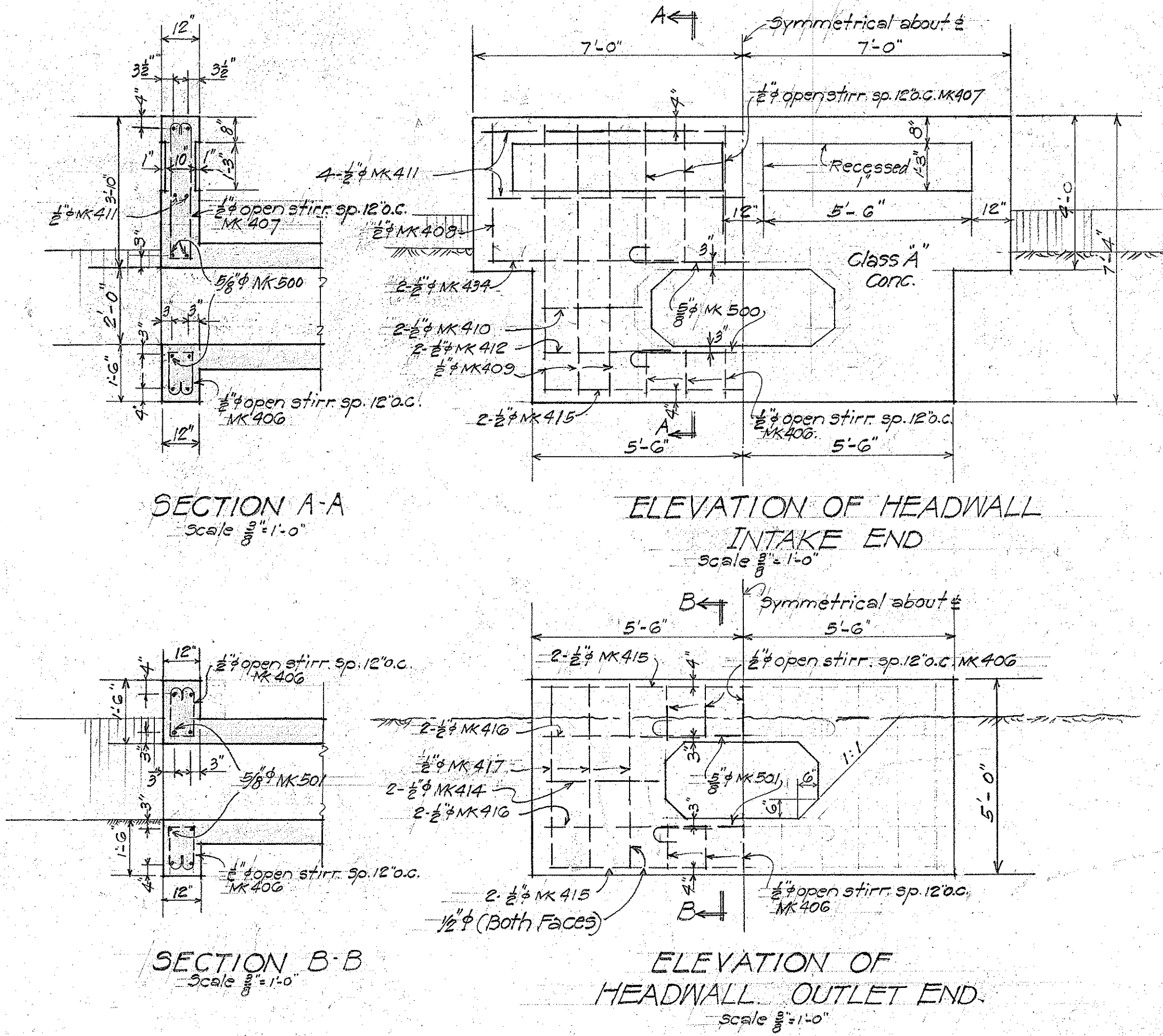
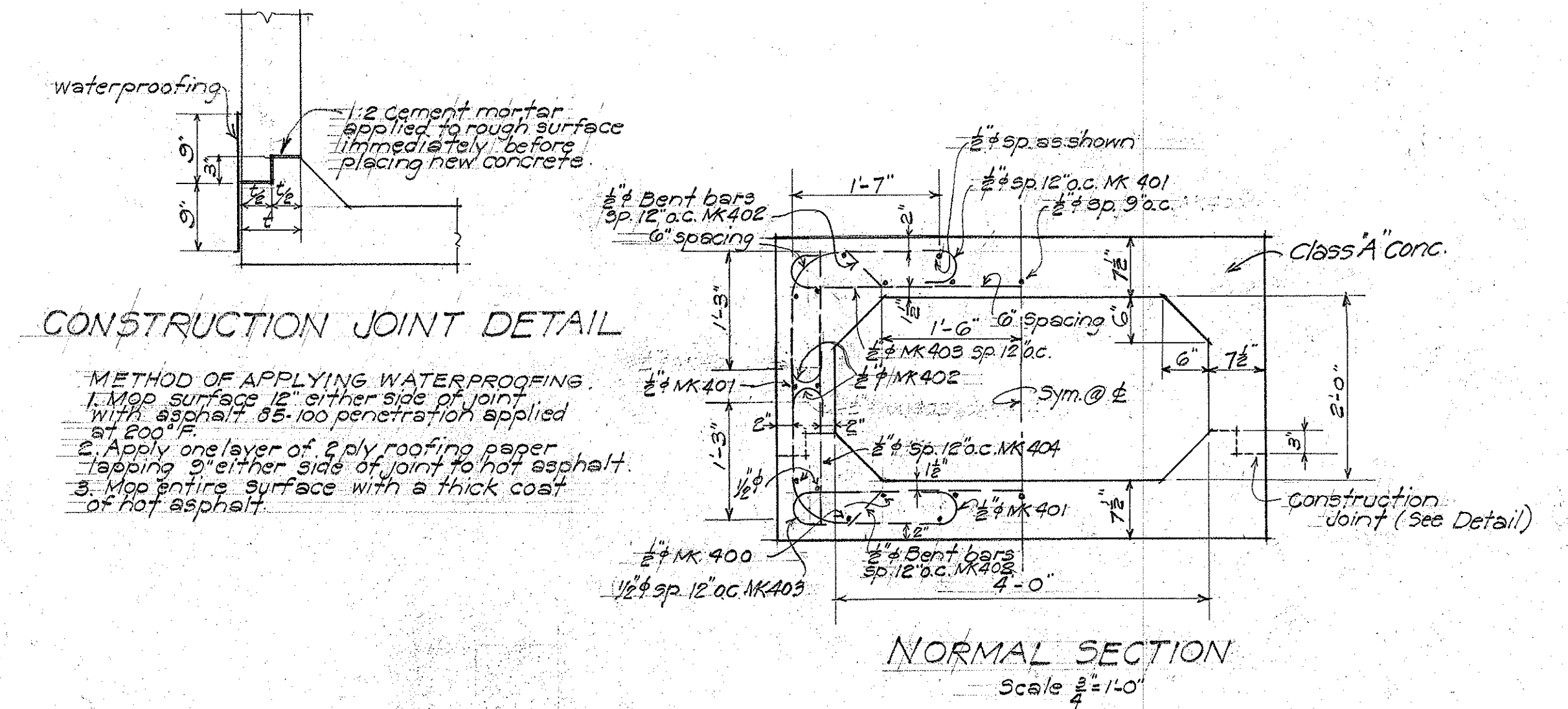
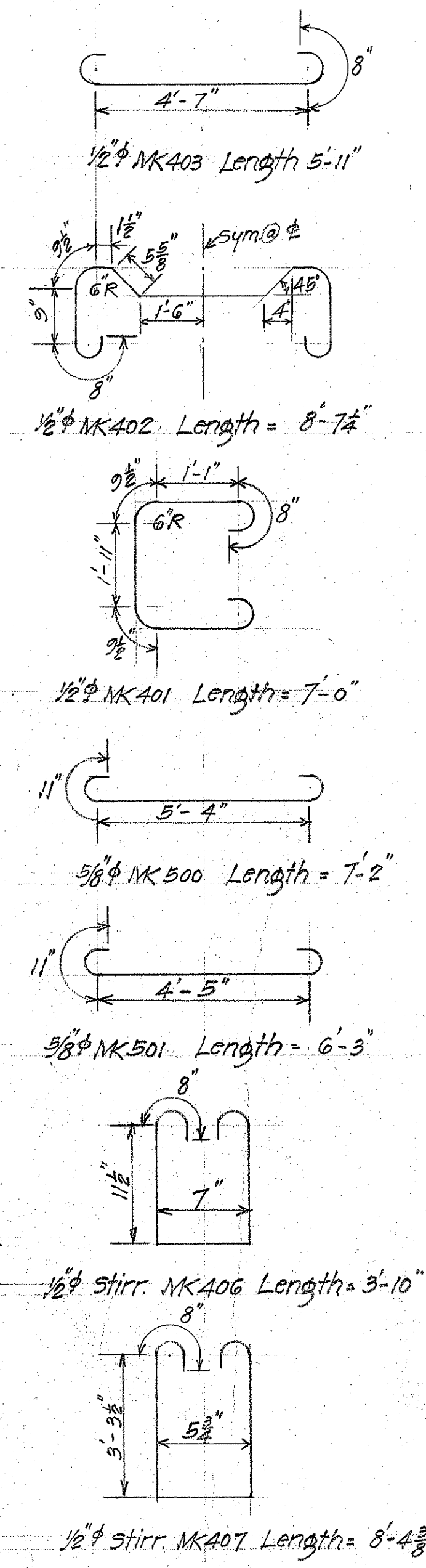
Curb Curve Data
 $\Delta = 50^\circ - 53'$
 $R = 100'$
 $T = 47.57'$
 $L = 88.81'$
 $D = 57'-20"$

Required: 2 C.I. Grating and Frame.

Curb Curve Data
 $\Delta = 123^\circ - 07'$
 $R = 200'$
 $T = 42.04'$
 $L = 45.07'$



SECTION C-C ALONG & CULVERT
 Scale 1" = 10'-0"



ESTIMATED QUANTITIES

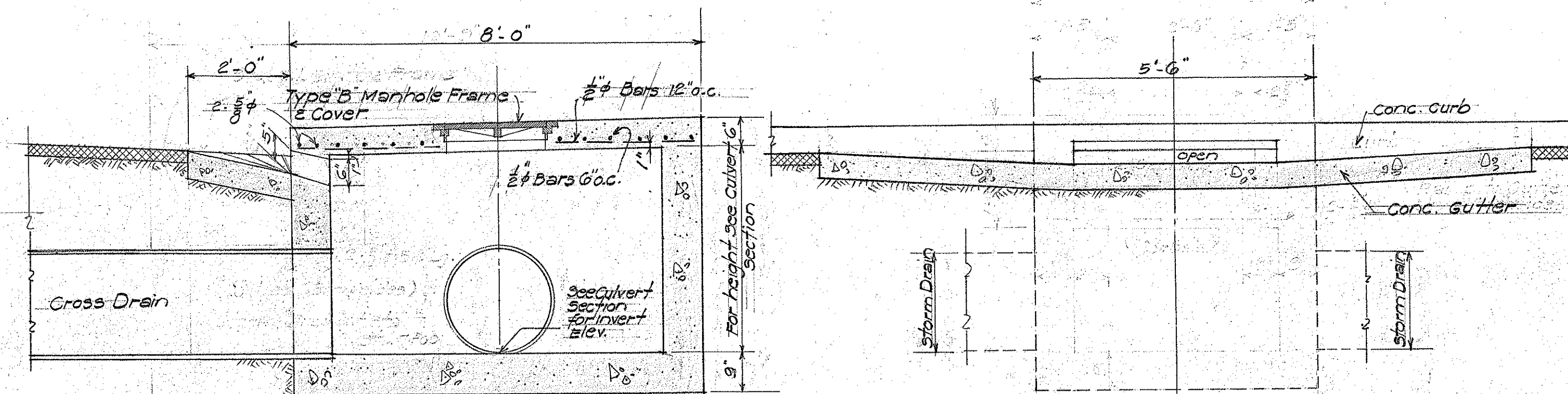
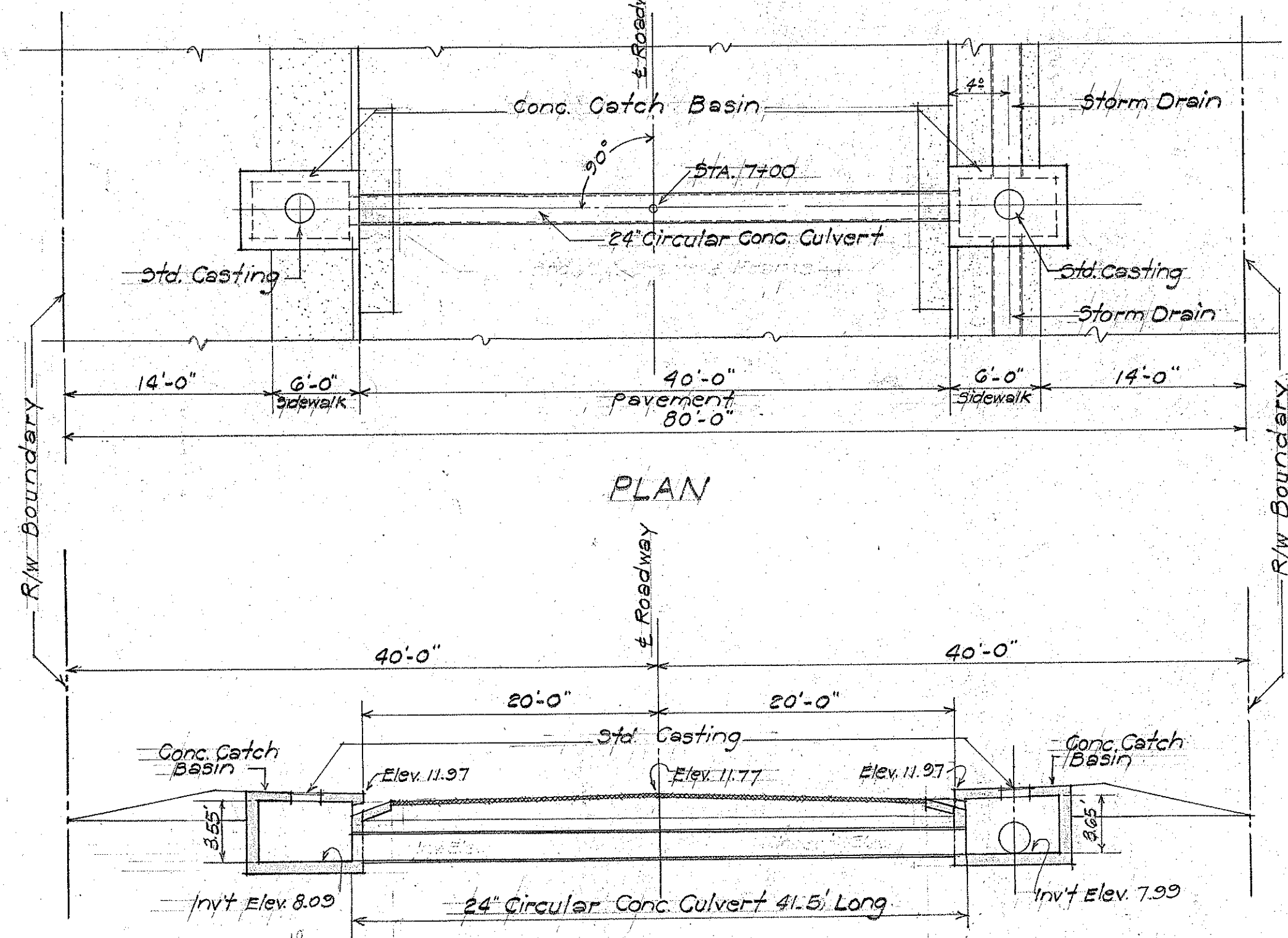
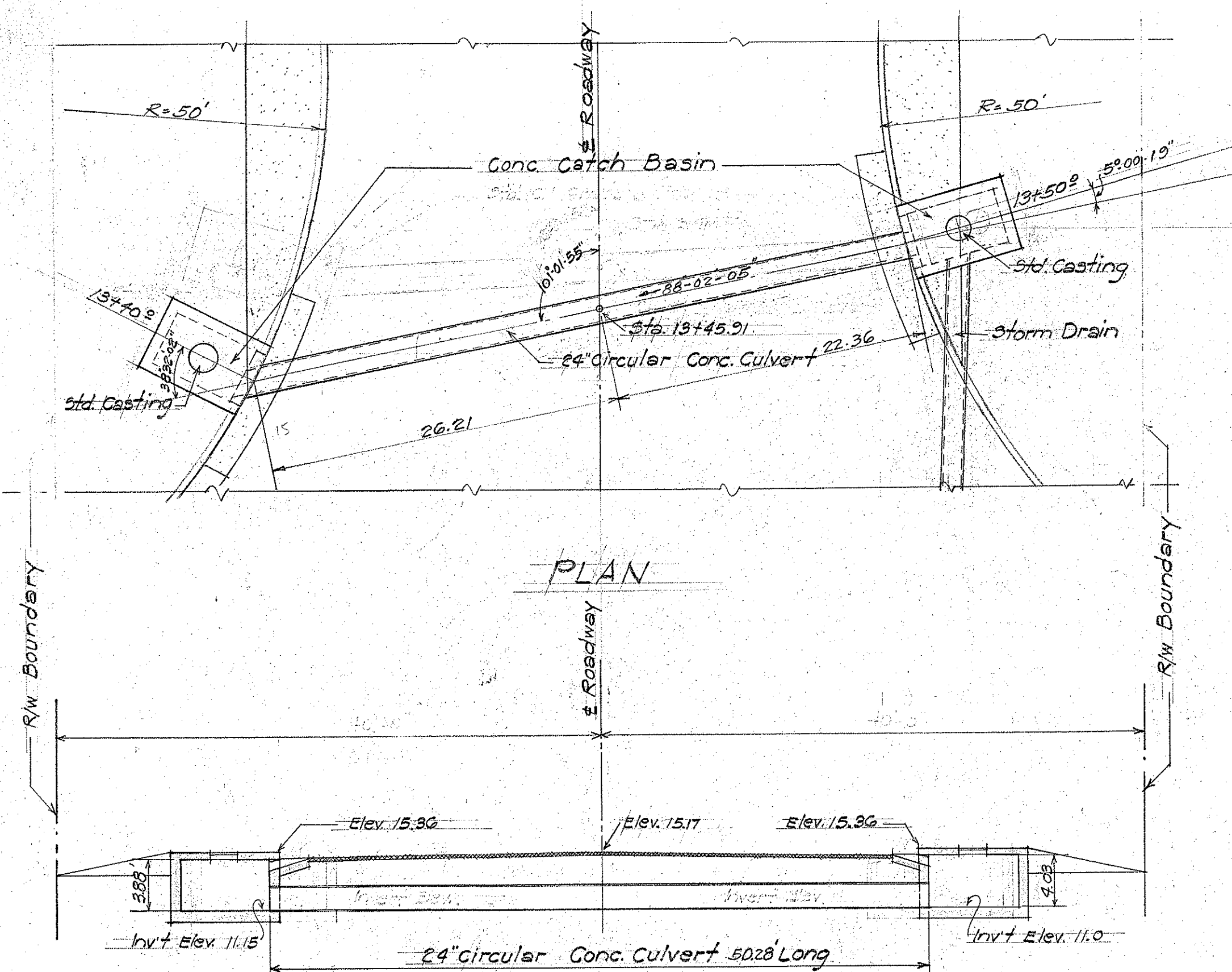
Item	Quantity
Class A Conc.	32.80 C.Y.
Reinf. Steel	4466 lbs.
Str. Exc.	79.0 C.Y.
Type C C.I. Grating & Frame	2

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
4 x 2 BOX CULVERT
 Sta. 0 + 47
 JOHN RODGERS - KEEHI LAGOON DA-NR 1000
 ACCESS RD. P RD SECTION. Dec. 1943
 SHEET No 1 OF 2 SHEETS

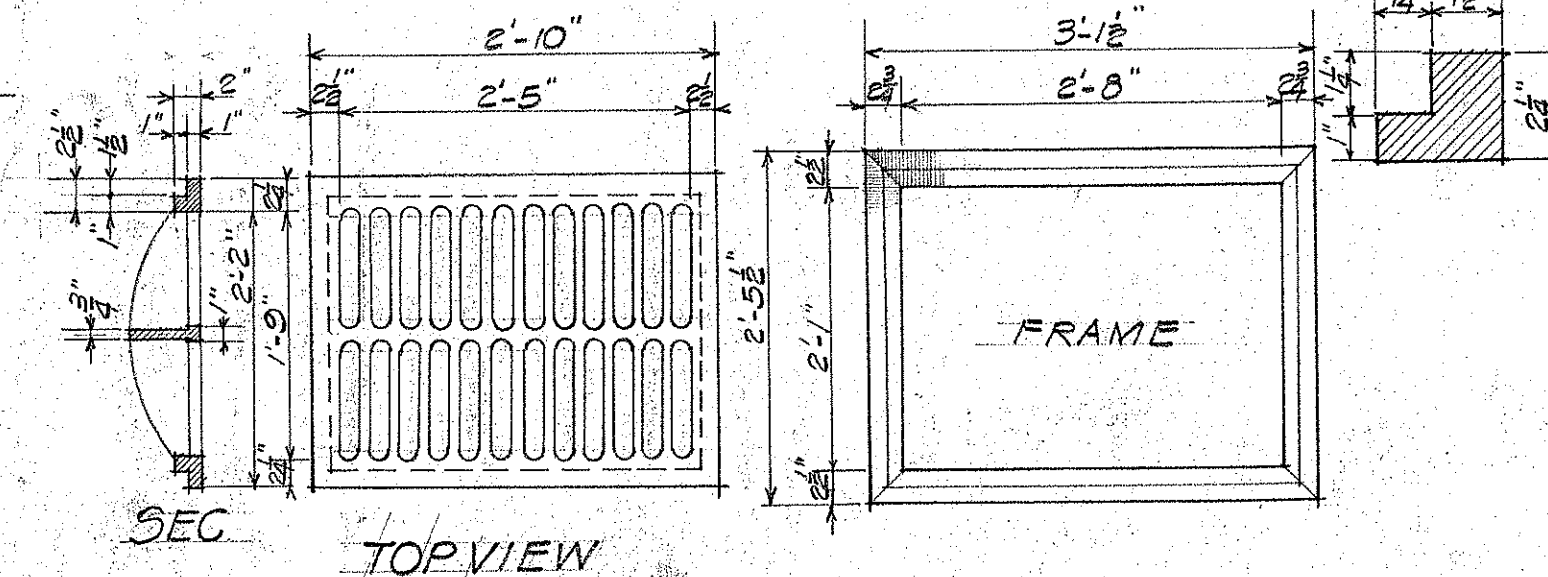
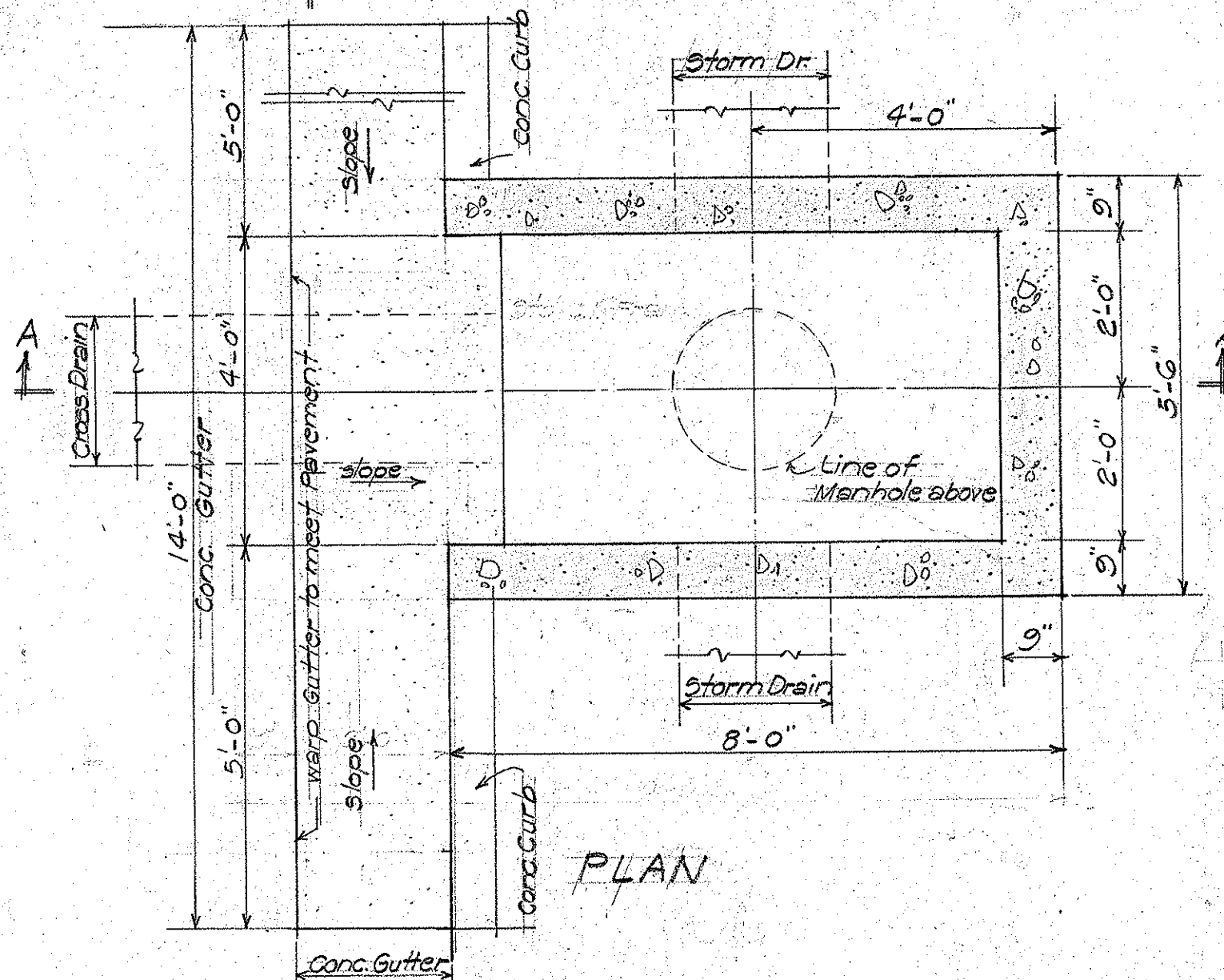
5130.7
 Superseded by 7A

This sheet has been superseded by sheet No. 5130-7A Mar. 1944

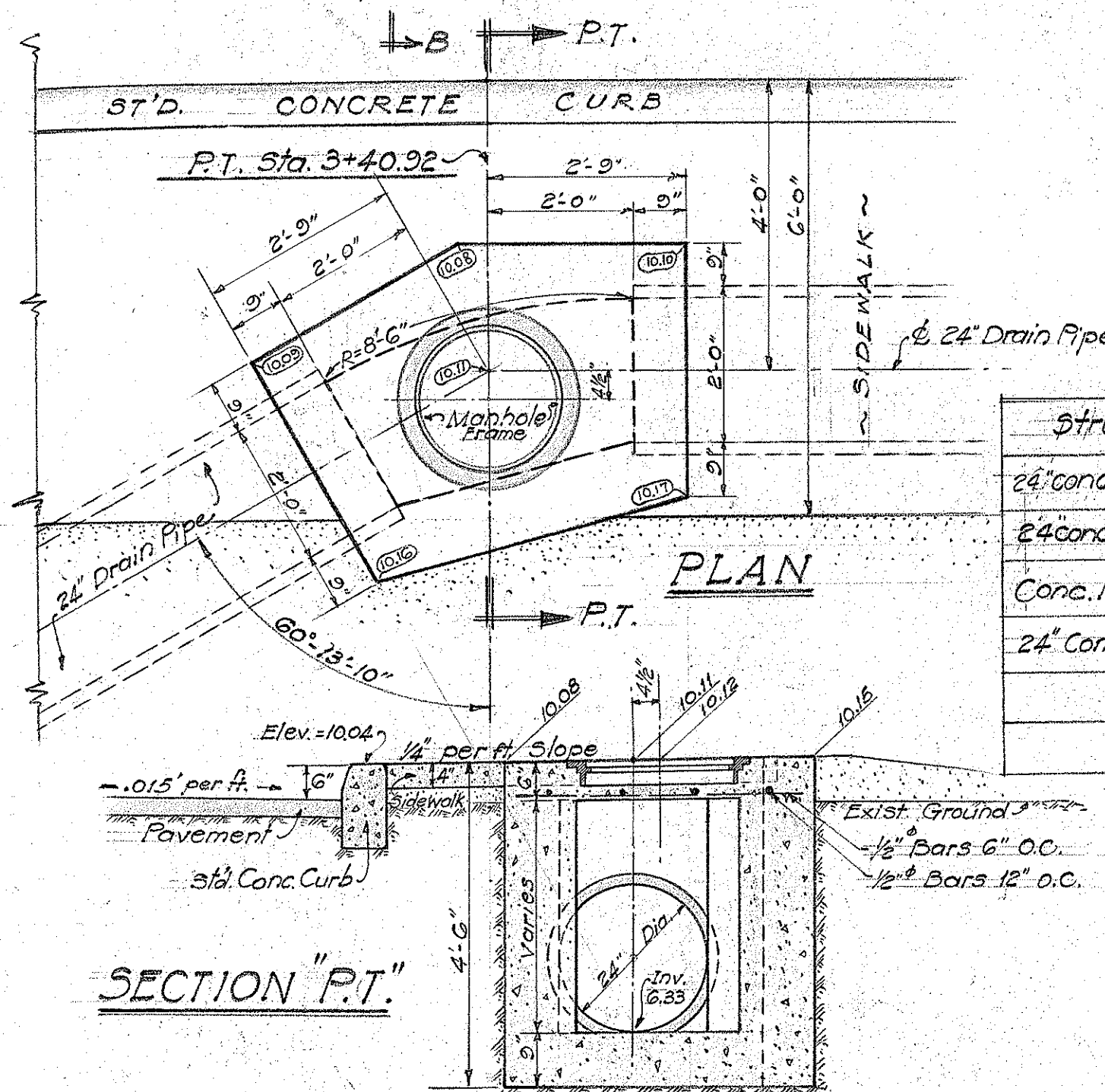
ORIGINAL PLAN
 DESIGNED BY: [Signature]
 DRAWN BY: [Signature]
 QUANTITIES CHECKED BY: [Signature]
 CHECKED BY: [Signature]



DETAIL OF CONCRETE CATCH BASIN AT SIDEWALK
Scale 1/2" = 1'-0"

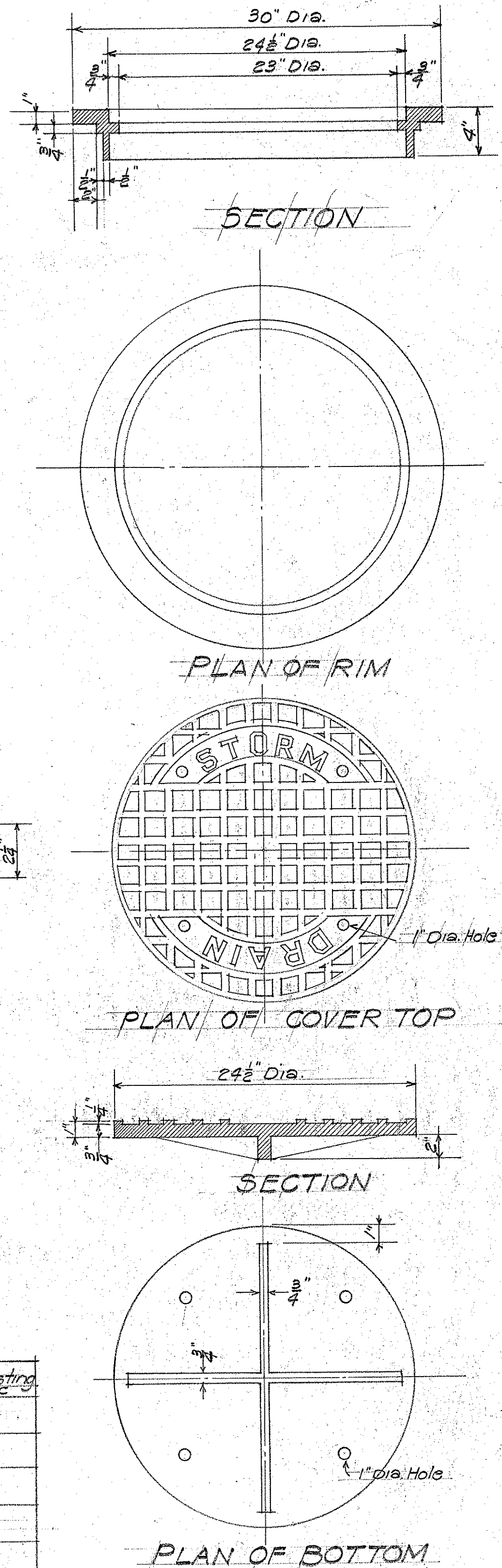


STANDARD C.I. FRAME & GRATE "C"
Scale 1/2" = 1'-0"
Note: Stark Pattern from Novelty Foundry



ESTIMATED QUANTITIES

Structure	Location	Class A Conc.	Structural Ex.	Reinf. Steel	Pipe Length	Std. Casting
24" Conc. Cross Drain	Sta. 13+45.91	2.50 cu. Yds.	35 cu. Yds.	175 Lbs.	50.30 Ft.	2
24" Conc. Cross Drain	Sta. 7+00	0.75 cu. Yds.	29 cu. Yds.	175 Lbs.	41.50 Ft.	2
Conc. Manhole	Sta. 3+40.92	2 c.Y.	6 c.Y.	36 Lbs.		1
24" Conc. Storm Drain	Sta. 3+40.92 New Ditch		26 c.Y.		227.1' Ft.	



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

CULVERT DETAILS

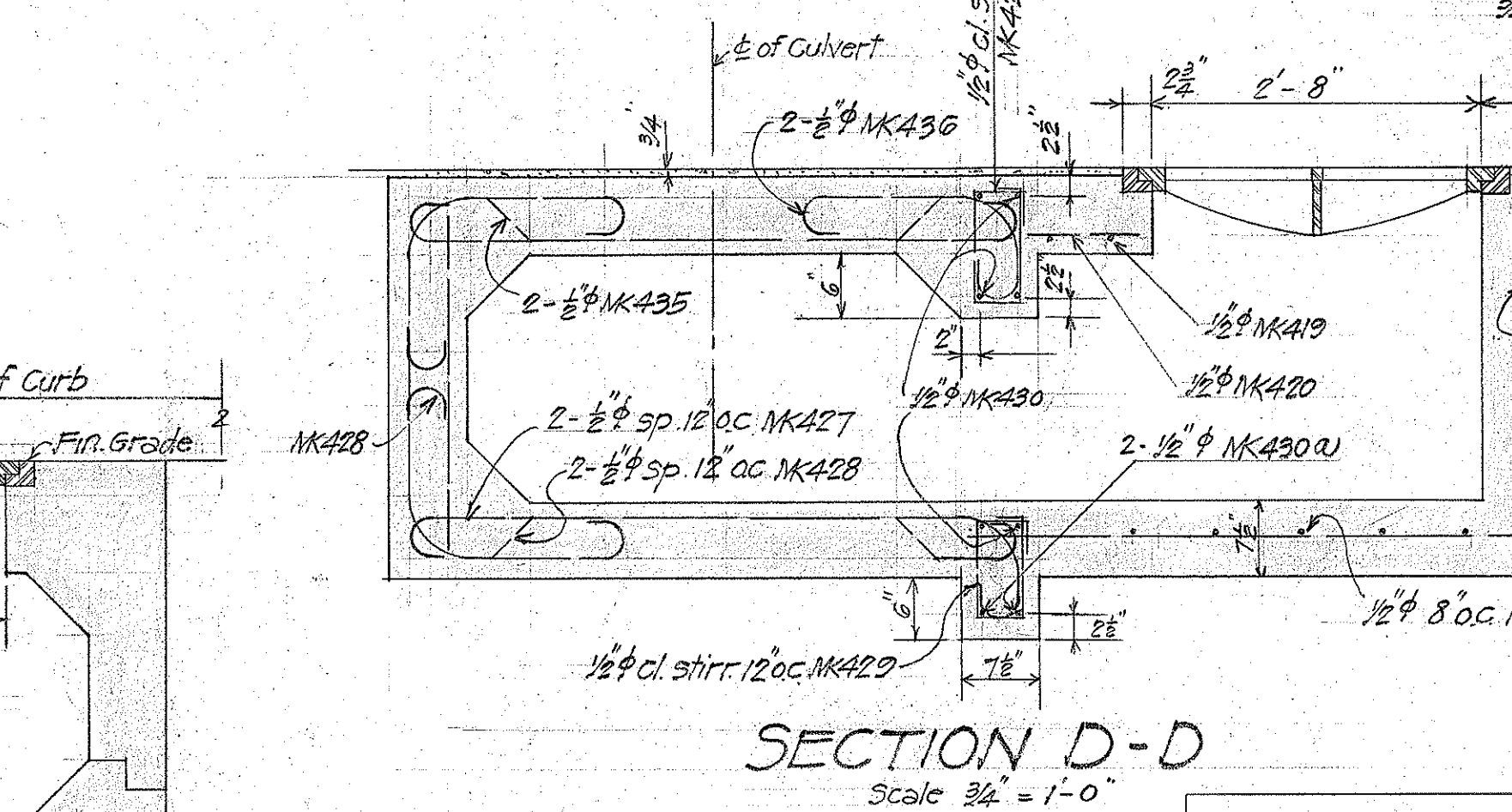
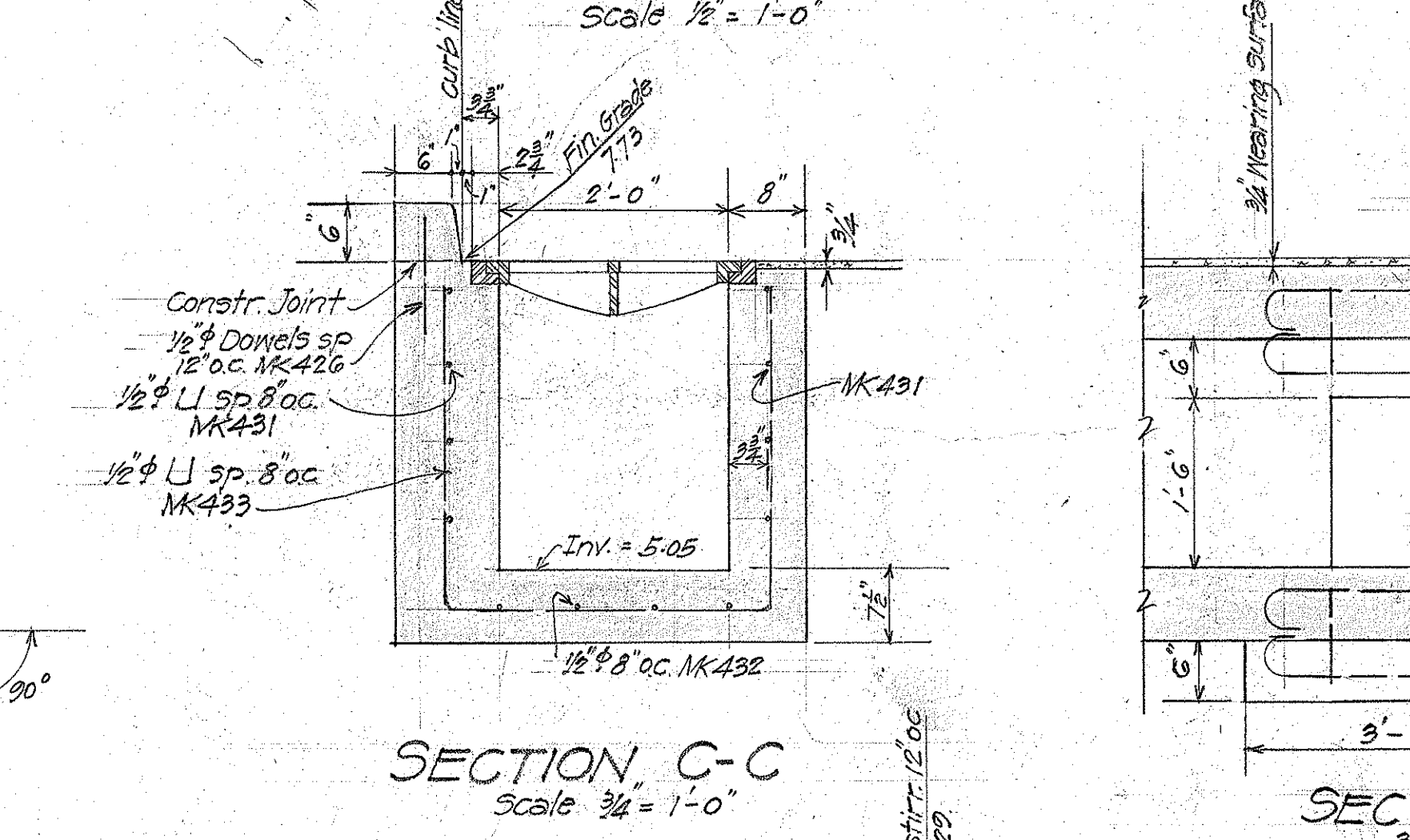
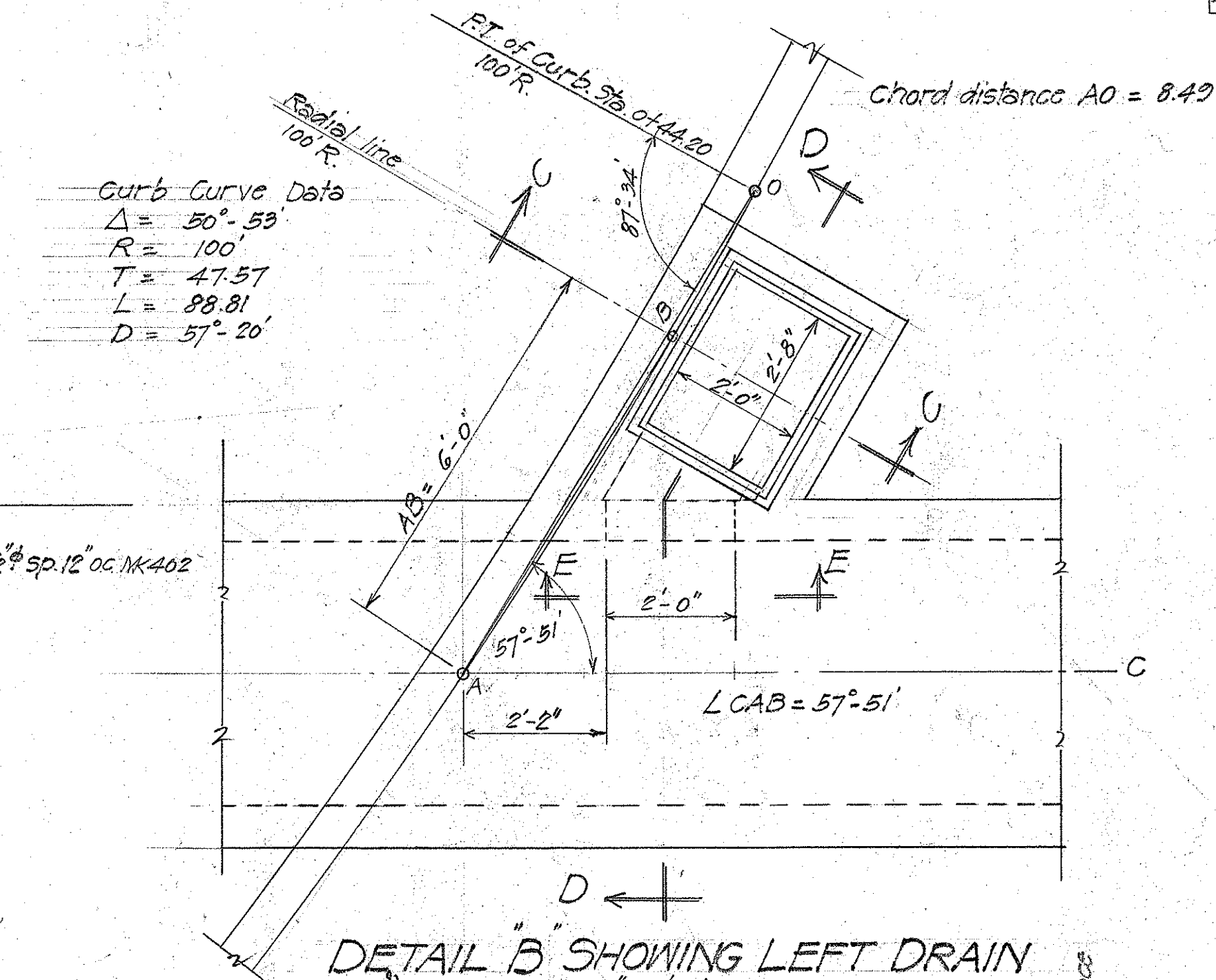
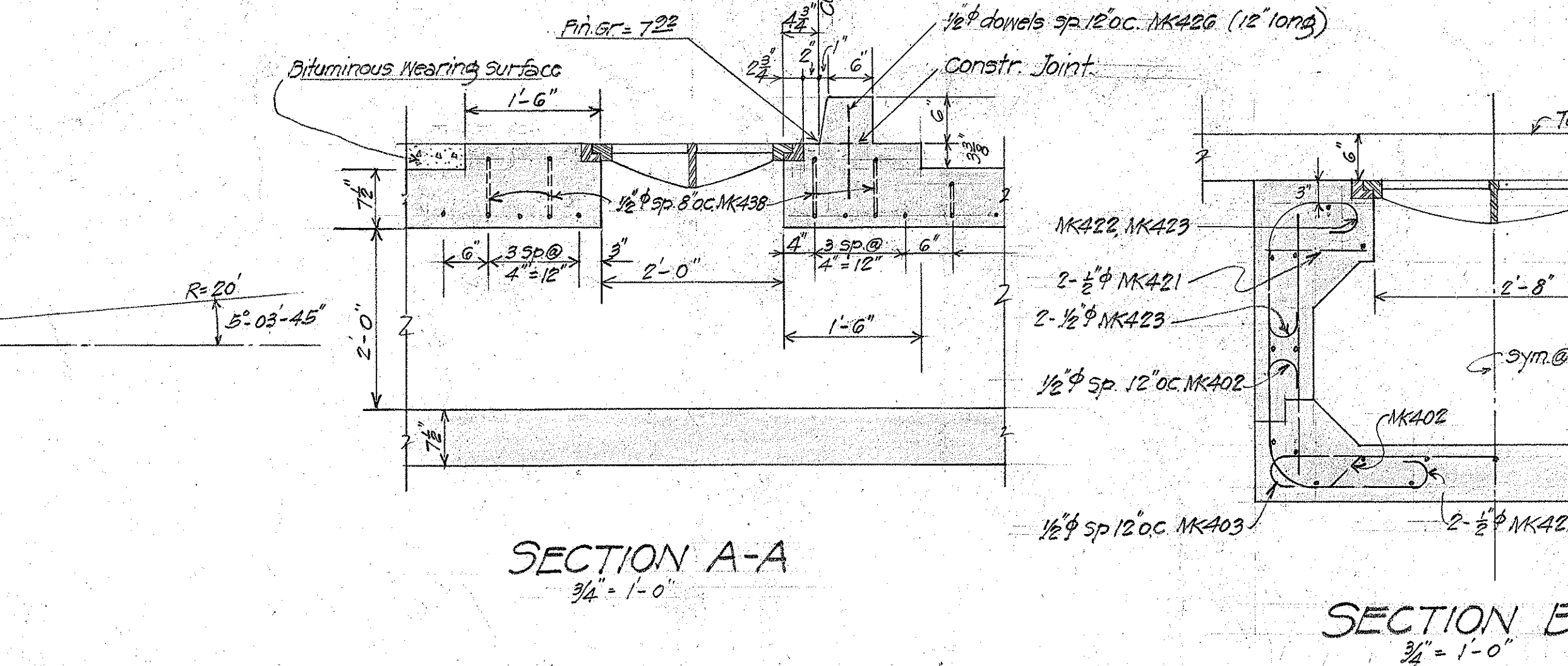
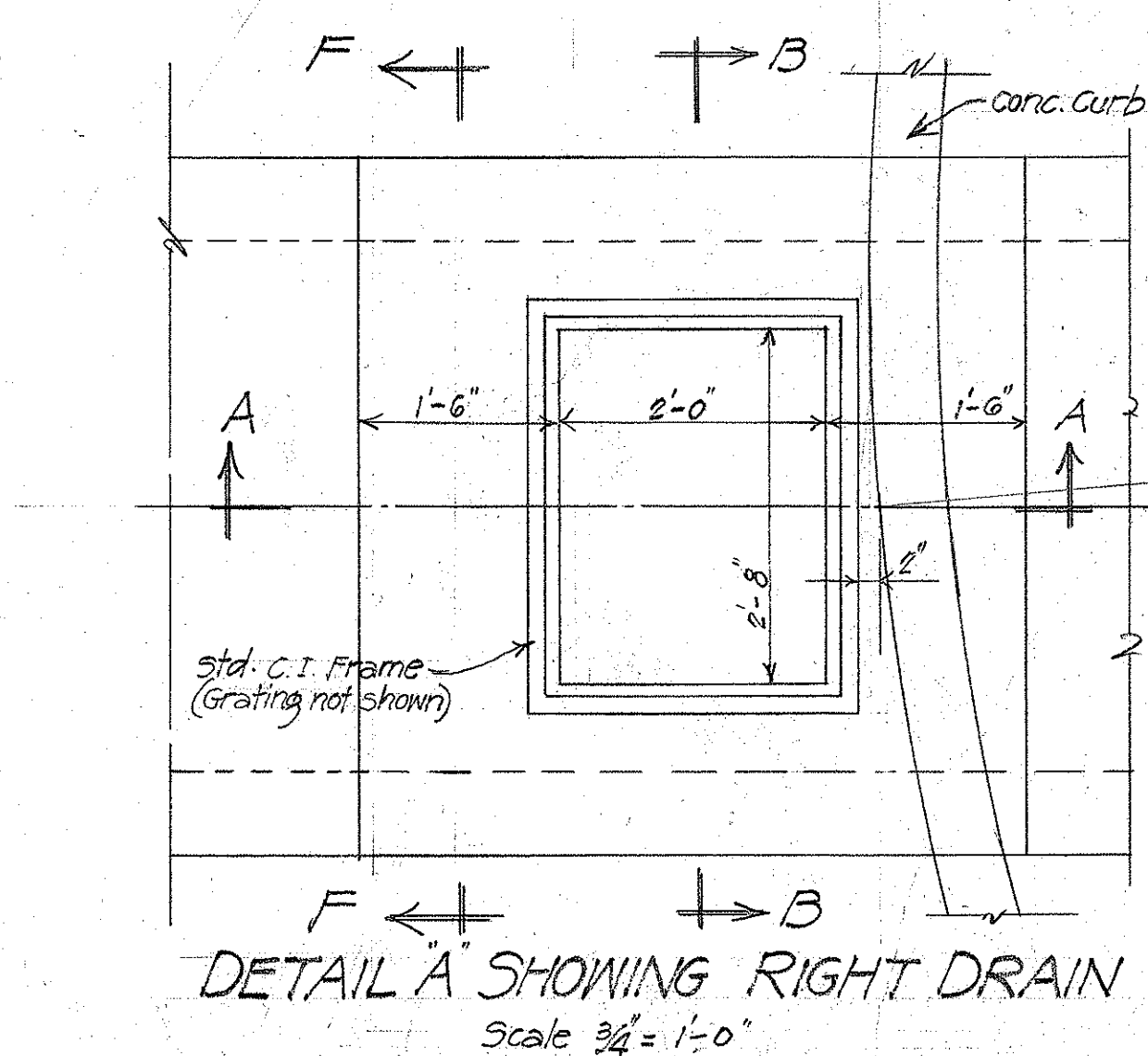
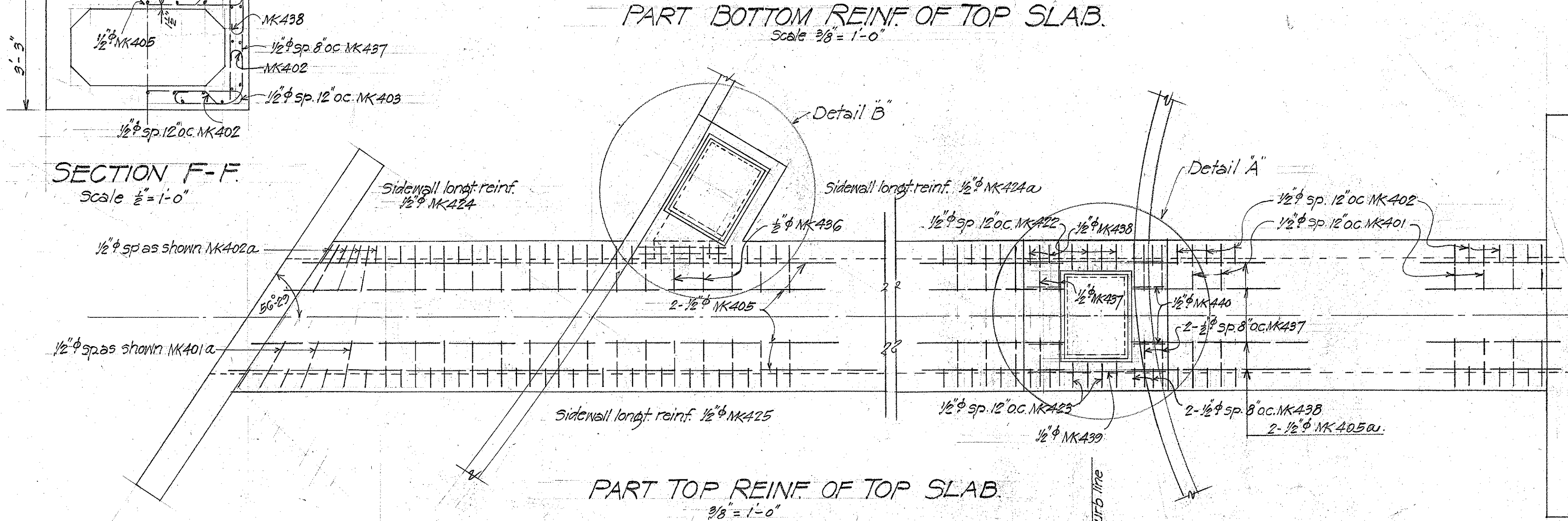
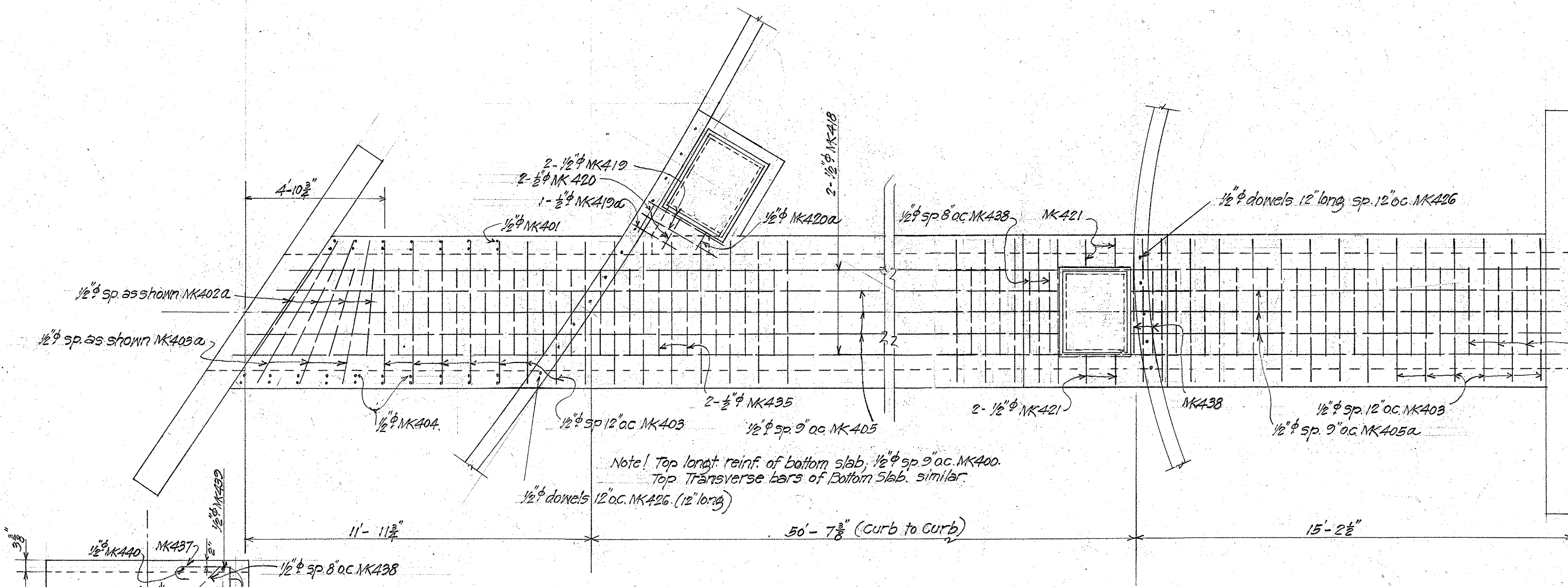
"P" ROAD DANR 100(1)

SHEET NO. OF SHEETS

PART OF 5118

5130.7A

ORIGINAL SURVEY PLOTTED BY DATE
PLAN DESIGNED BY
NOTE BOOK TRACED BY
QUANTITIES BY
CHECKED BY



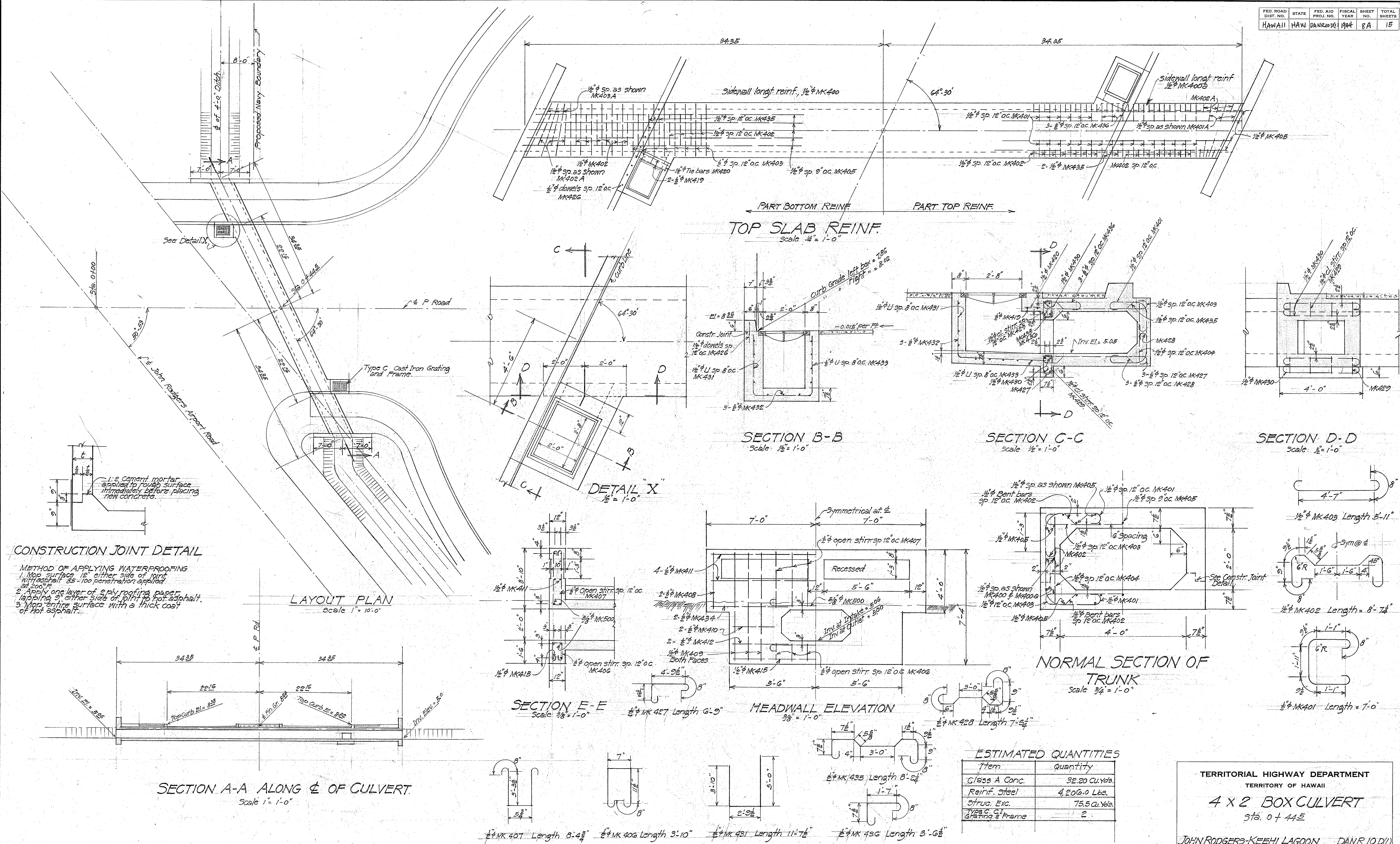
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
4 x 2 BOX CULVERT
 Sta. 0+470
 JOHN RODGERS-KEEHI LAGOON DANR1000
 ACCESS RD. "P" SECTION
 Dec. 1943
SHEET No 2 OF 2 SHEETS

5130.S

Supervised by 7A

This sheet has been superseded by Sheet No. 5130.7A Mar. 1944

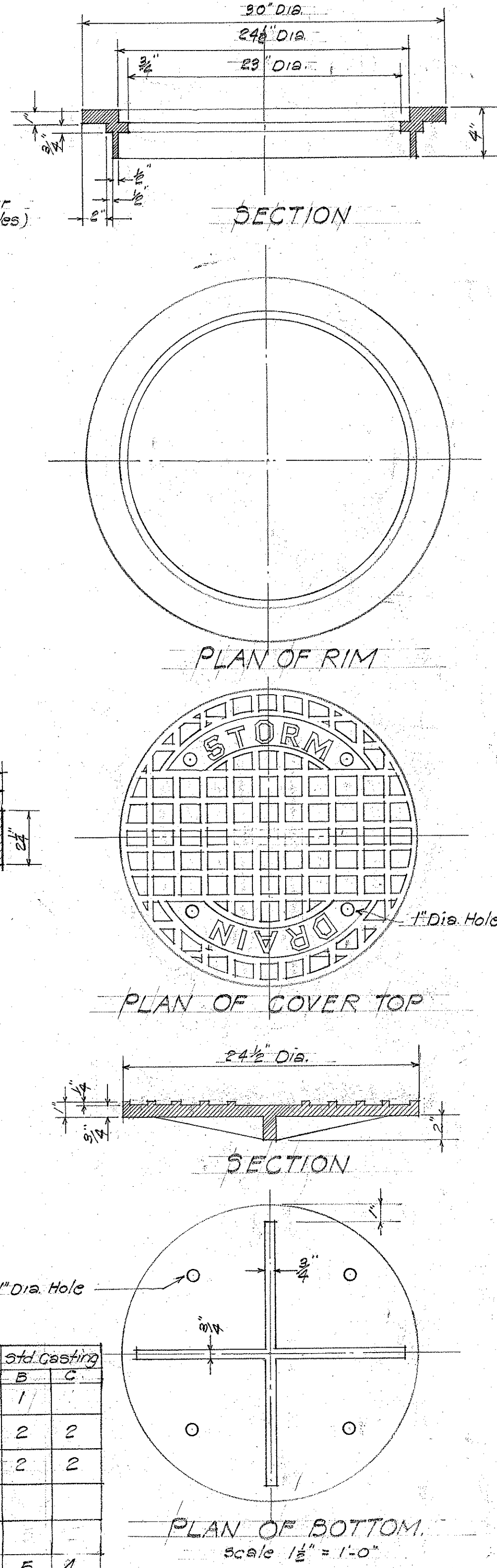
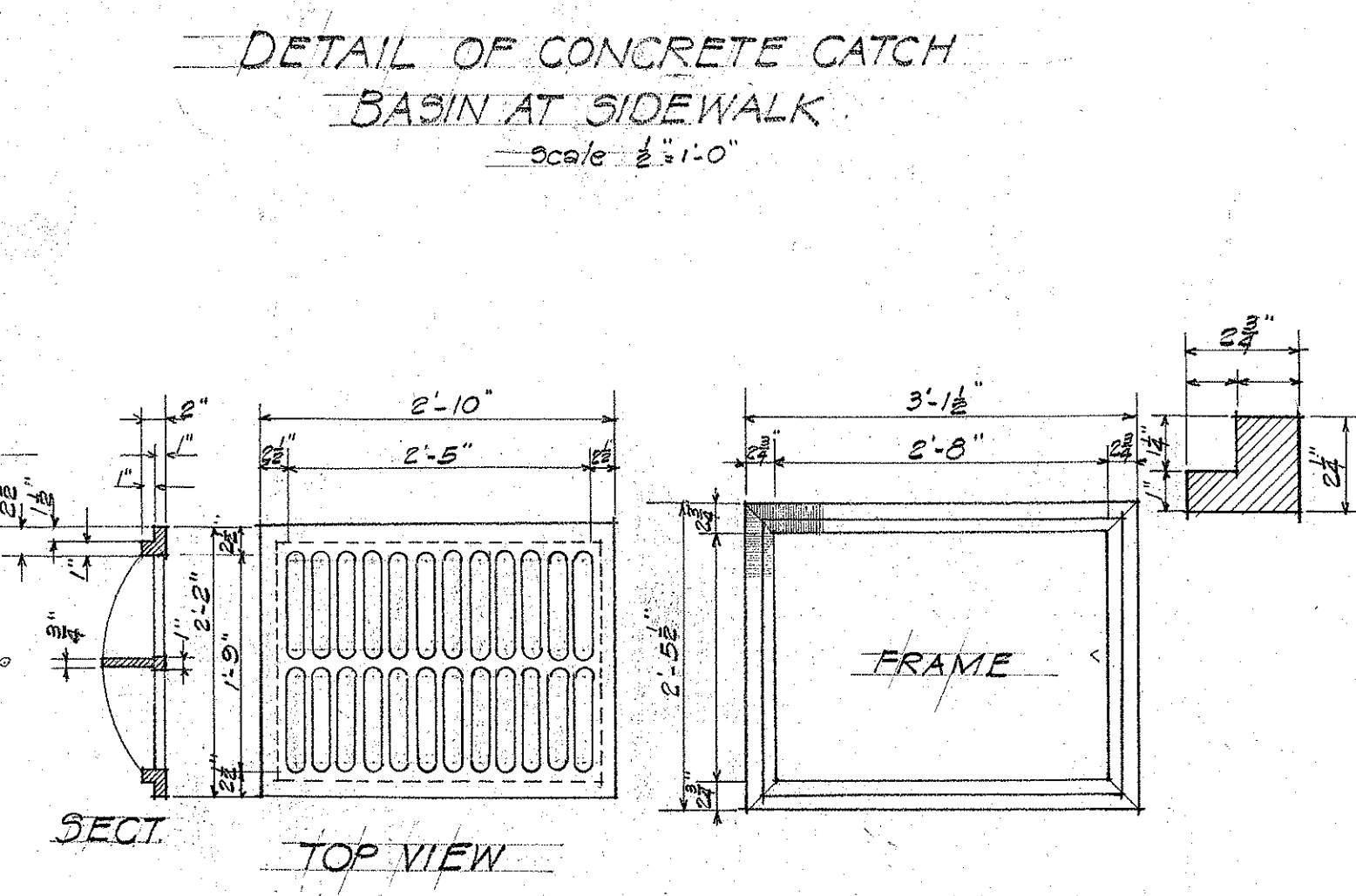
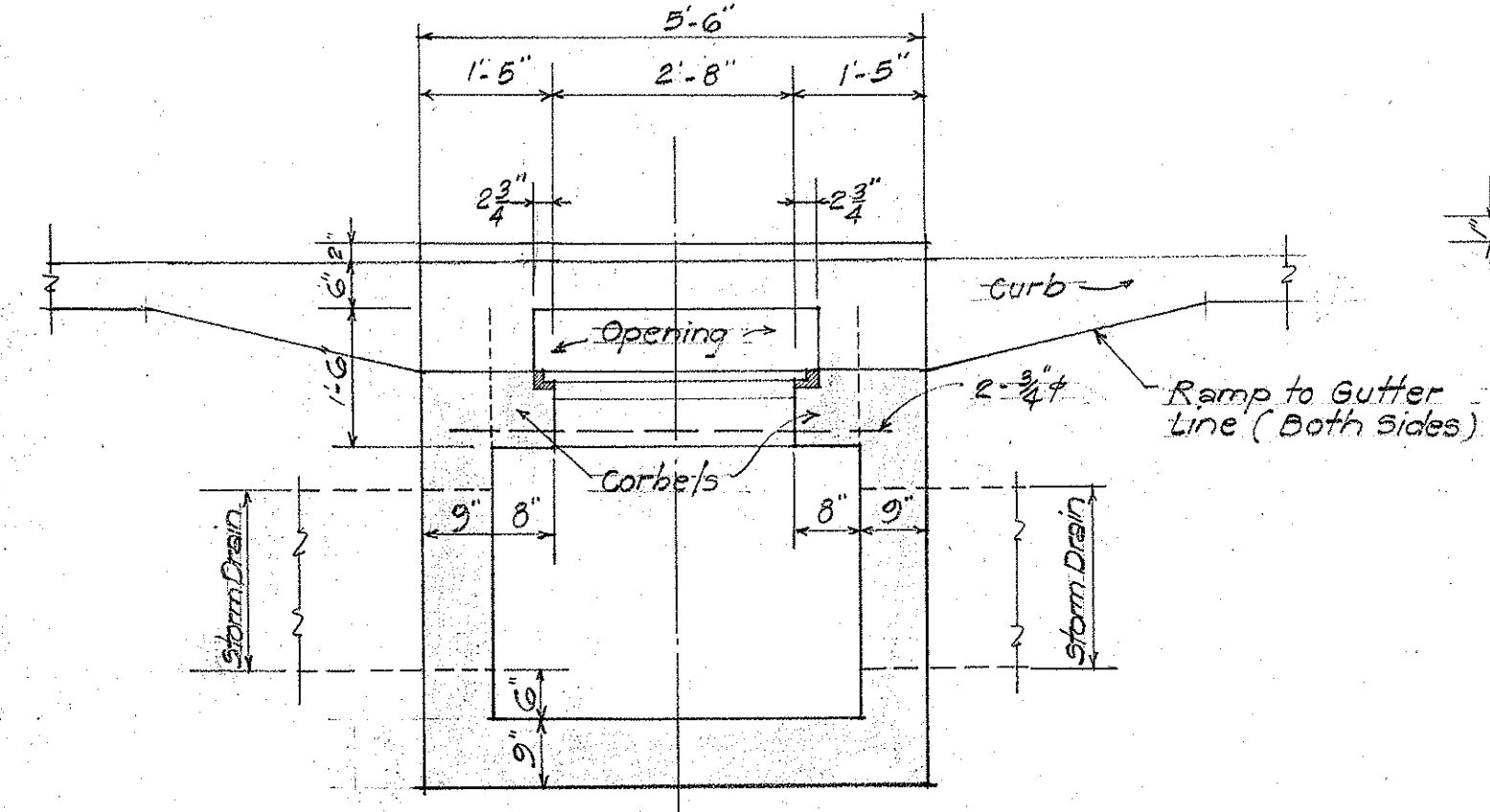
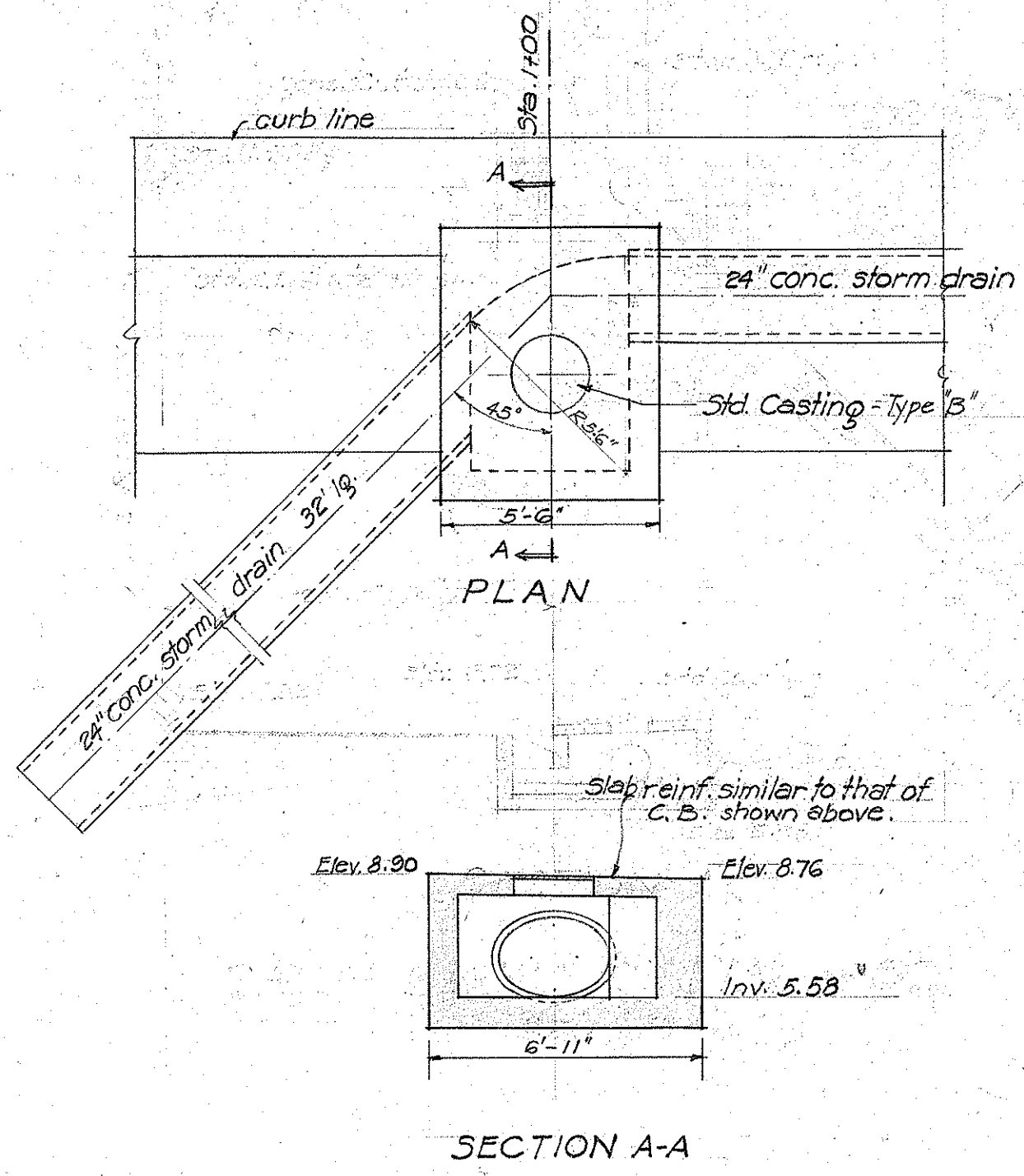
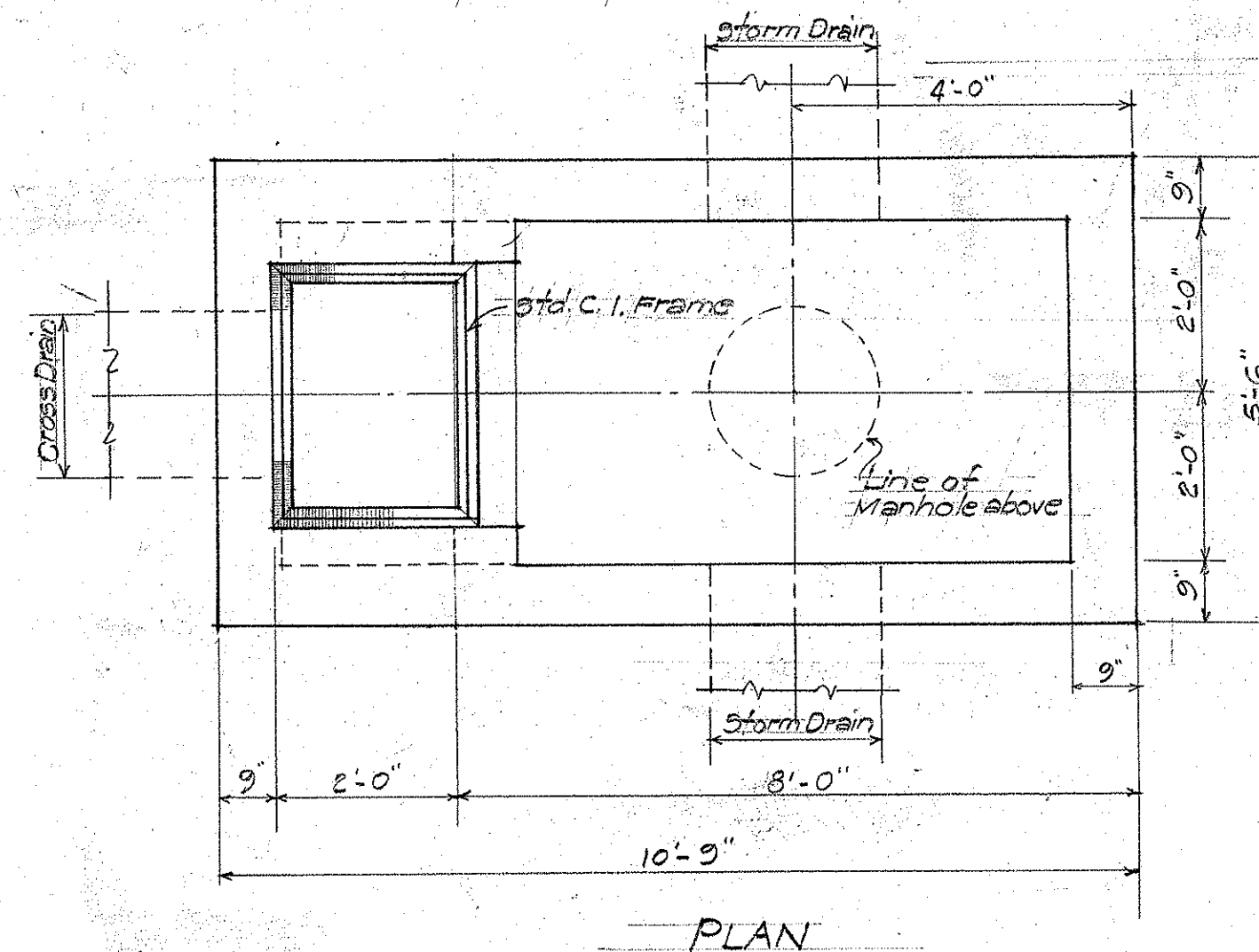
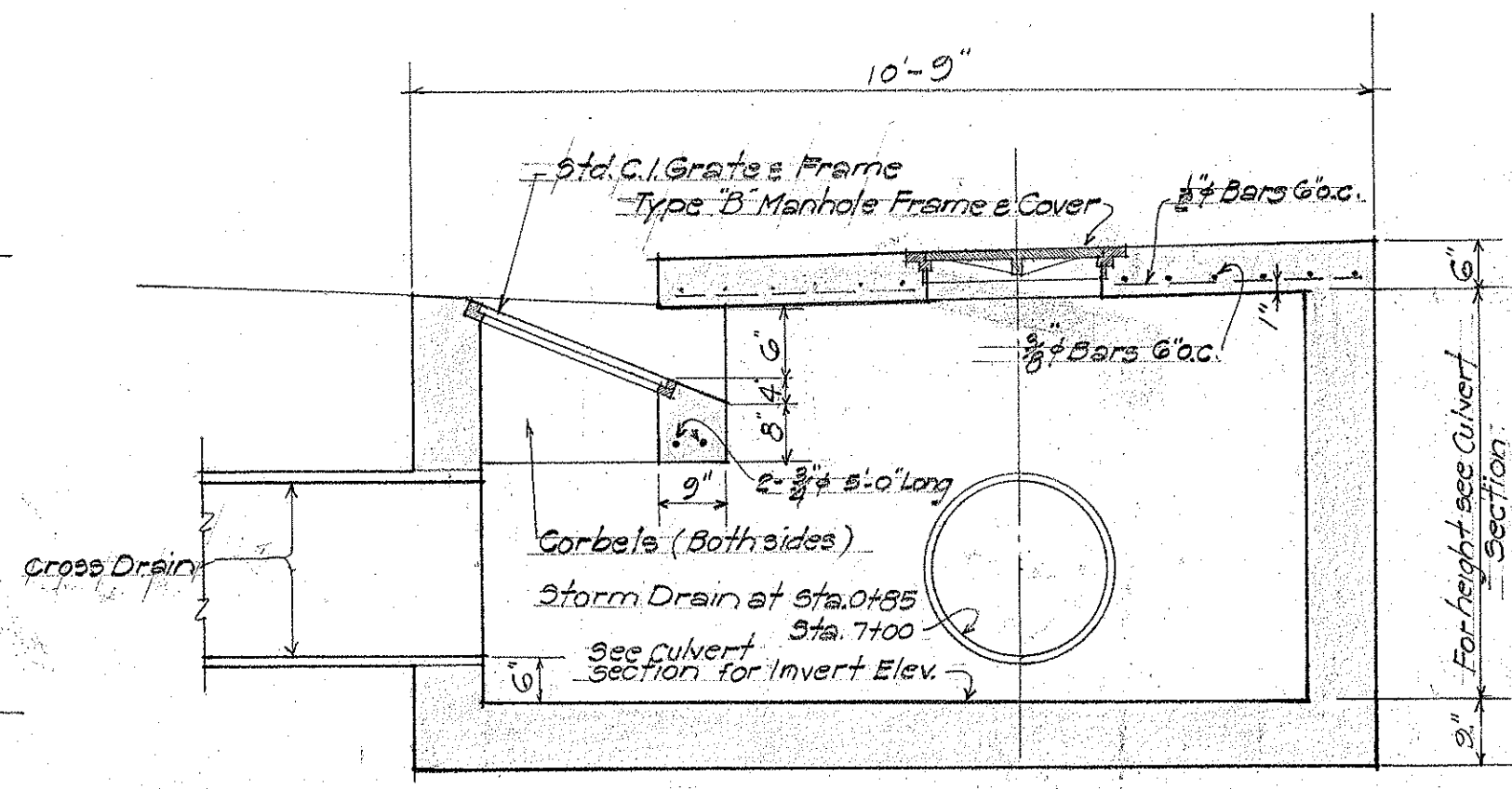
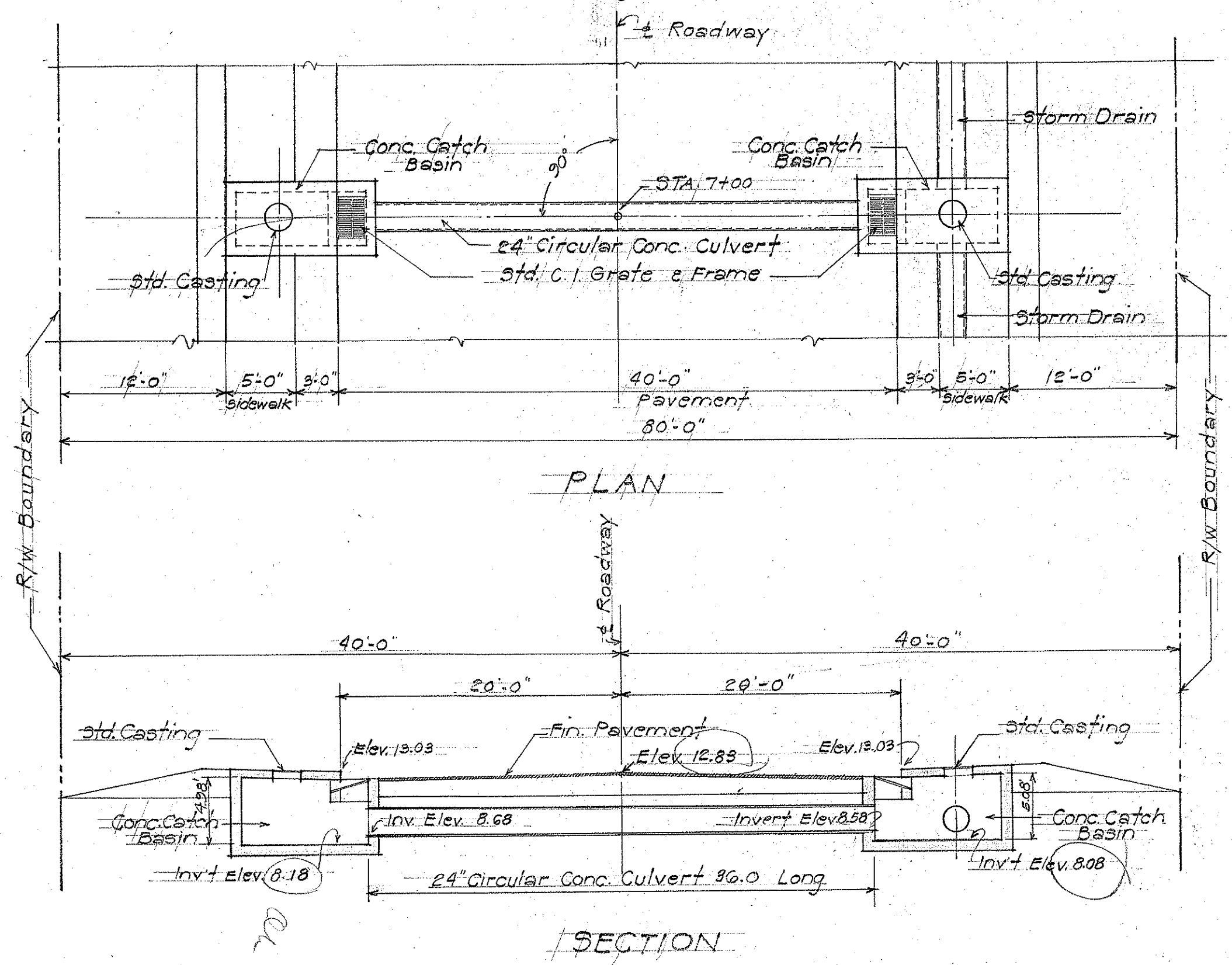
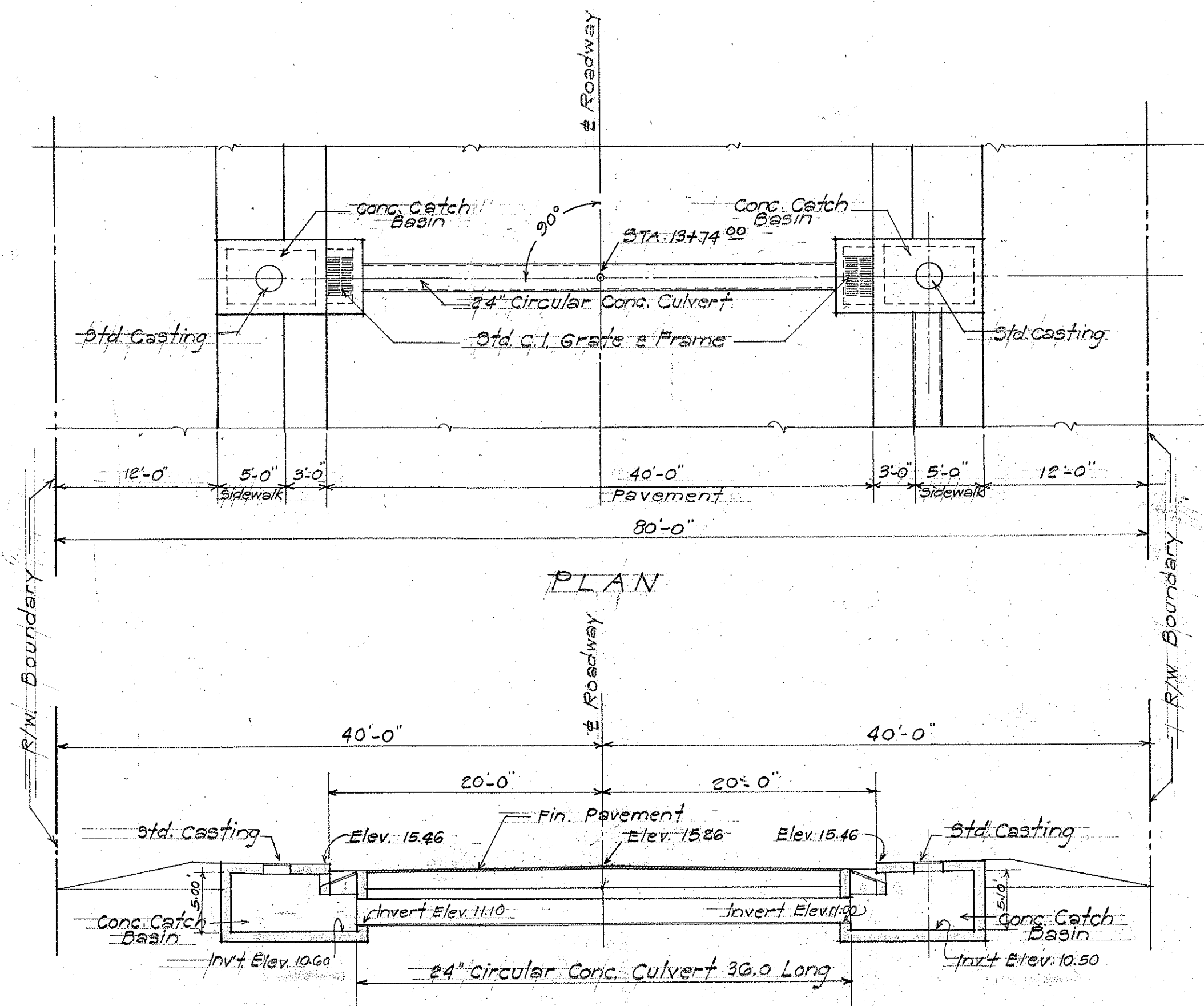
SURVEY PLOTTED BY	DATE
TRACED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
NOTE BOOK	
QUANTITIES CHECKED BY	
No.	



DATE: _____
DESIGNED BY: _____
CHECKED BY: _____
NOTED BY: _____
QUANTITIES BY: _____
CHECKED BY: _____
No. _____

Item	Quantity
Class A Conc.	32.20 Cu.Yds.
Reinf. Steel	4,200.0 Lbs.
Struct. Exc.	75.5 Cu.Yds.
TYPE C Cast Iron Grating & Frame	2

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
4 X 2 BOX CULVERT
Sta. 0+44.5
JOHN RODGERS-KEEHI LAGOON DANR 10(D)
ACCESS RD. 'P' RD. SECTION Mar. 1944
SHEET No. 8A OF 15 SHEETS



ESTIMATED QUANTITIES							
Structure	Location	Class A Conc.	Structural Ex.	Reinf. Steel	Pipe Length	Std. Casting	
Conc. Box	Sta. 1+00	2.95 Cu. Yds.	21.00 Cu. Yds.	70.00 lbs.	32.00 ft.	1	1
24" Conc. Cross Drain	Sta. 7+00	12.00 Cu. Yds.	29.00 Cu. Yds.	190.00 lbs.	36.00 ft.	2	2
24" Conc. Cross Drain	Sta. 13+74	12.96 Cu. Yds.	45.00 Cu. Yds.	190.00 lbs.	36.00 ft.	2	2
TOTAL		29.91 Cu. Yds.	90.00 Cu. Yds.	475.00 lbs.	104.00	5	4

VOID - SUPERCEDED

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

CULVERT DETAILS

"P" ROAD DANR 100(1)

DECEMBER 1943

SHEET No. 7 OF 15 SHEETS

This sheet has been superceded by Sheet No. 5130.9A Mar 28, 1944.

SURVEY PLOTTED BY: DATE: 1/23/44
DRAWN BY: D.S.Y.
CHECKED BY: J.W.
NOTE BOOK
QUANTITIES CHECKED BY: J.W.
No.