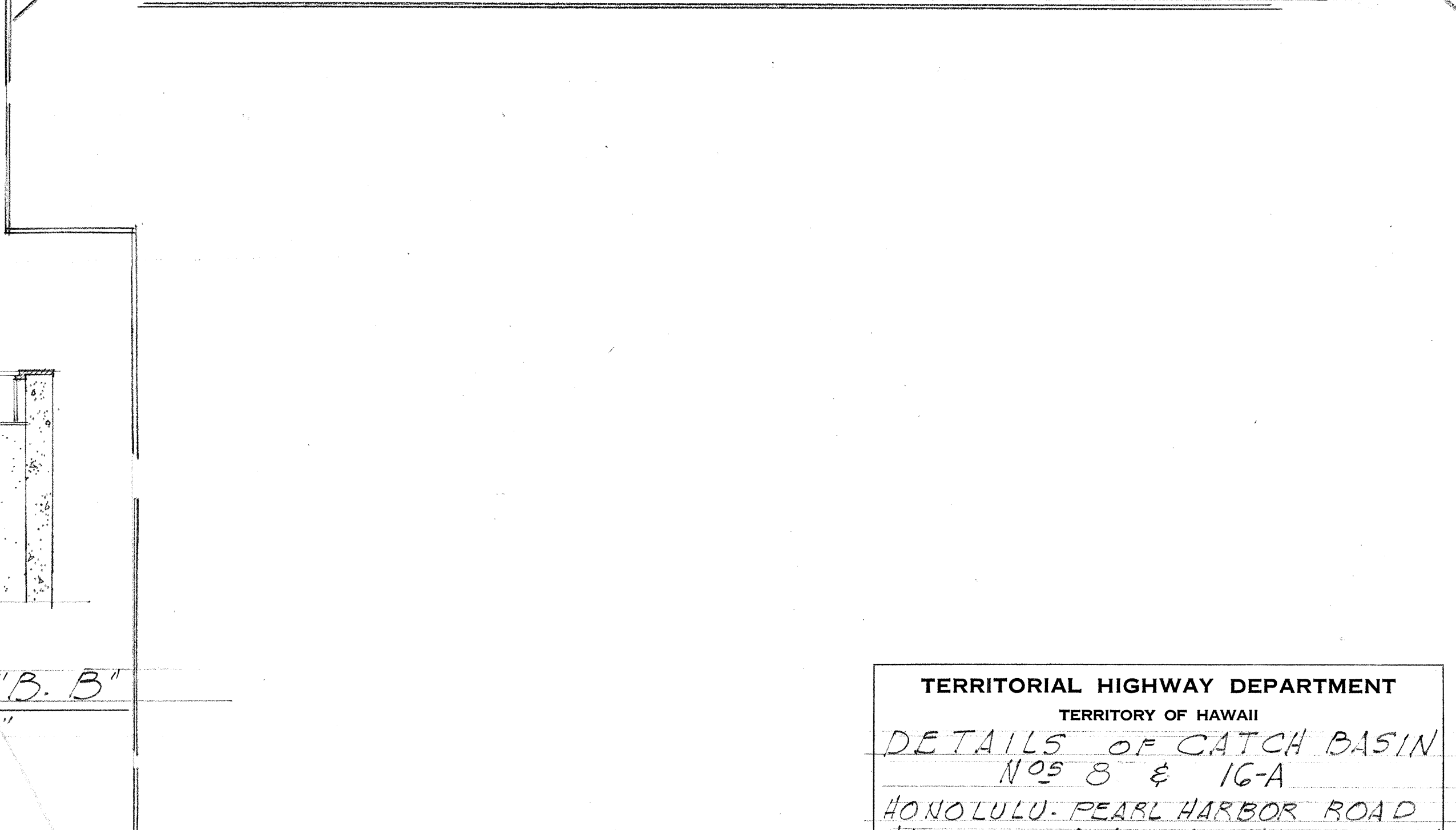
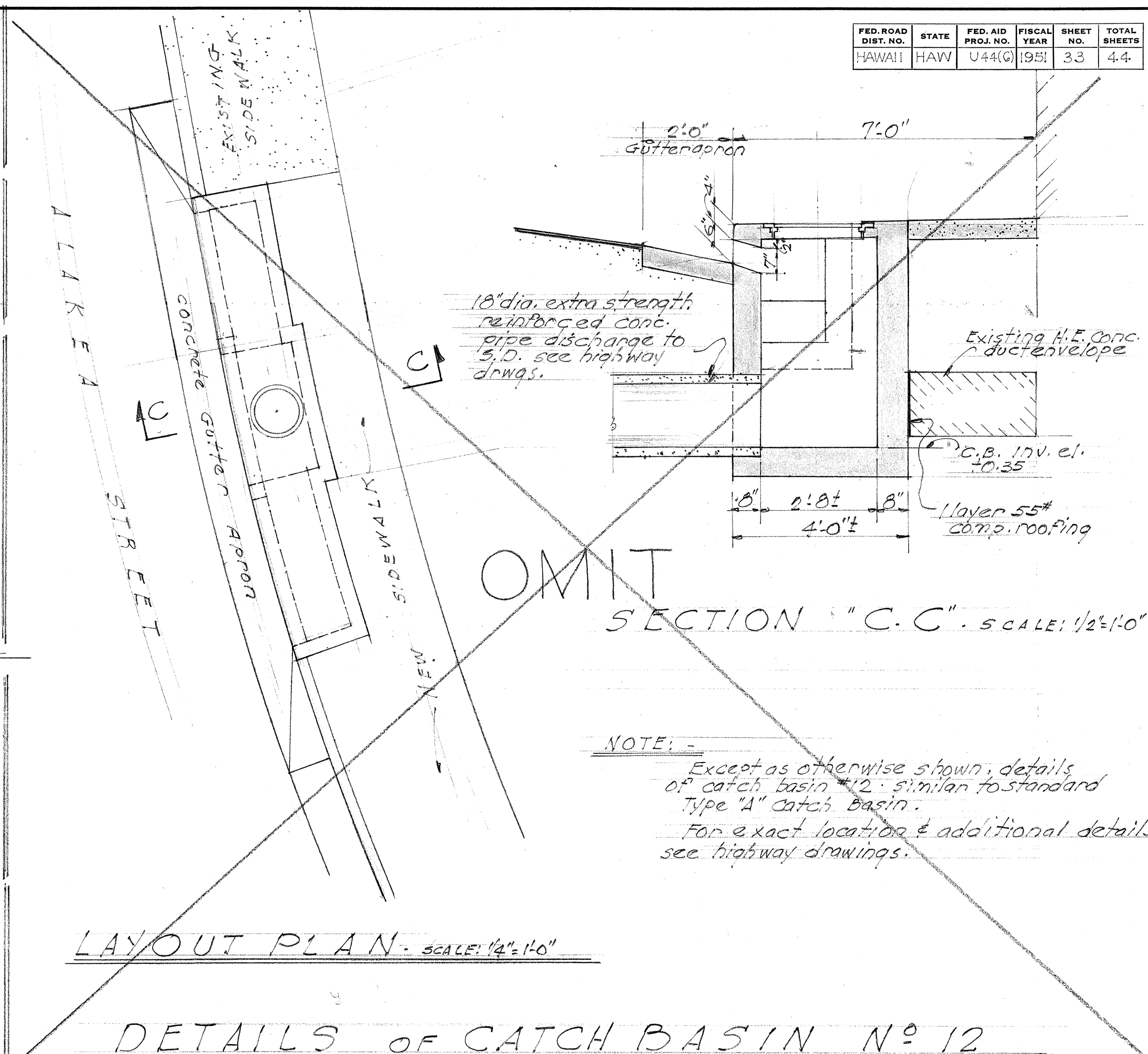
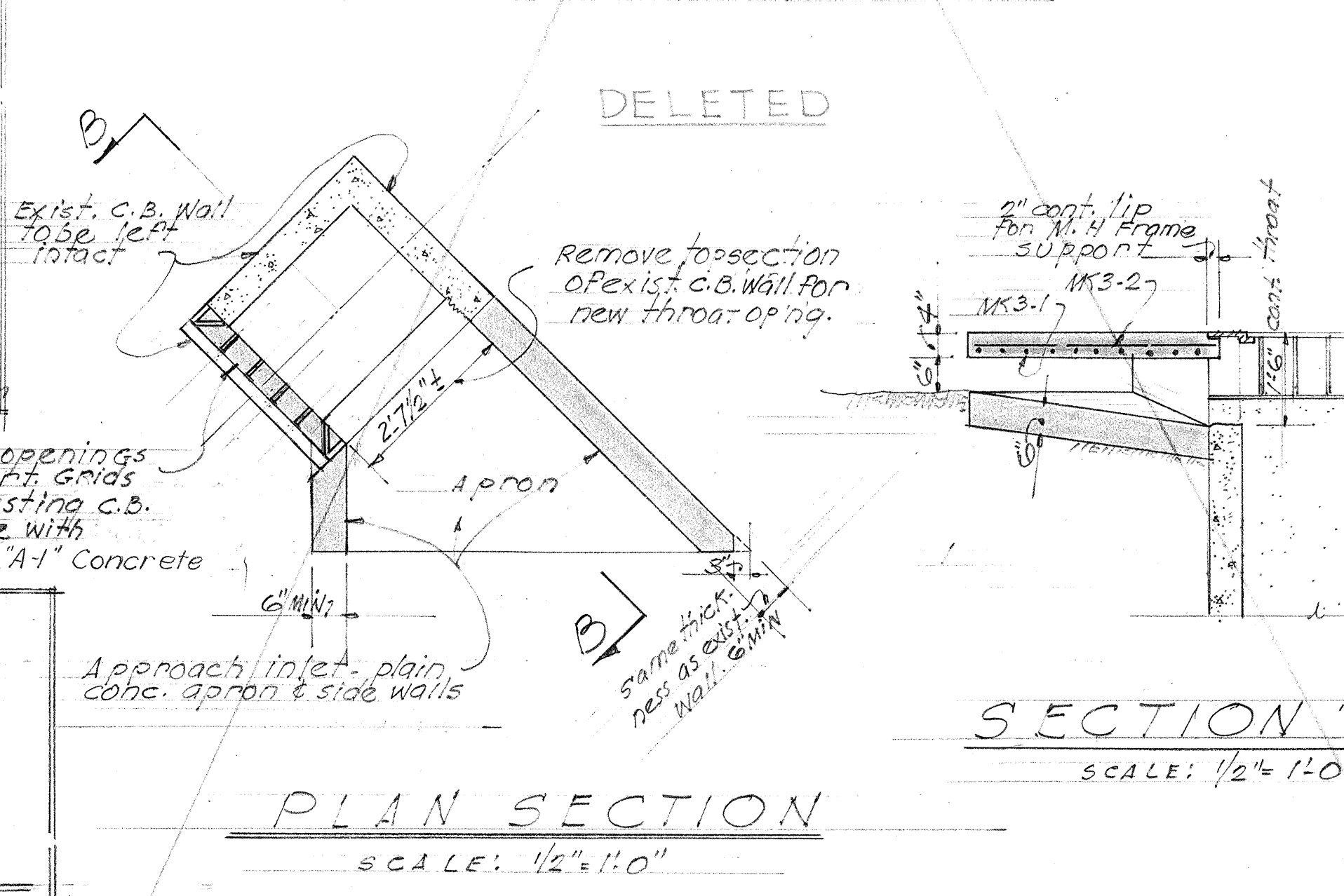
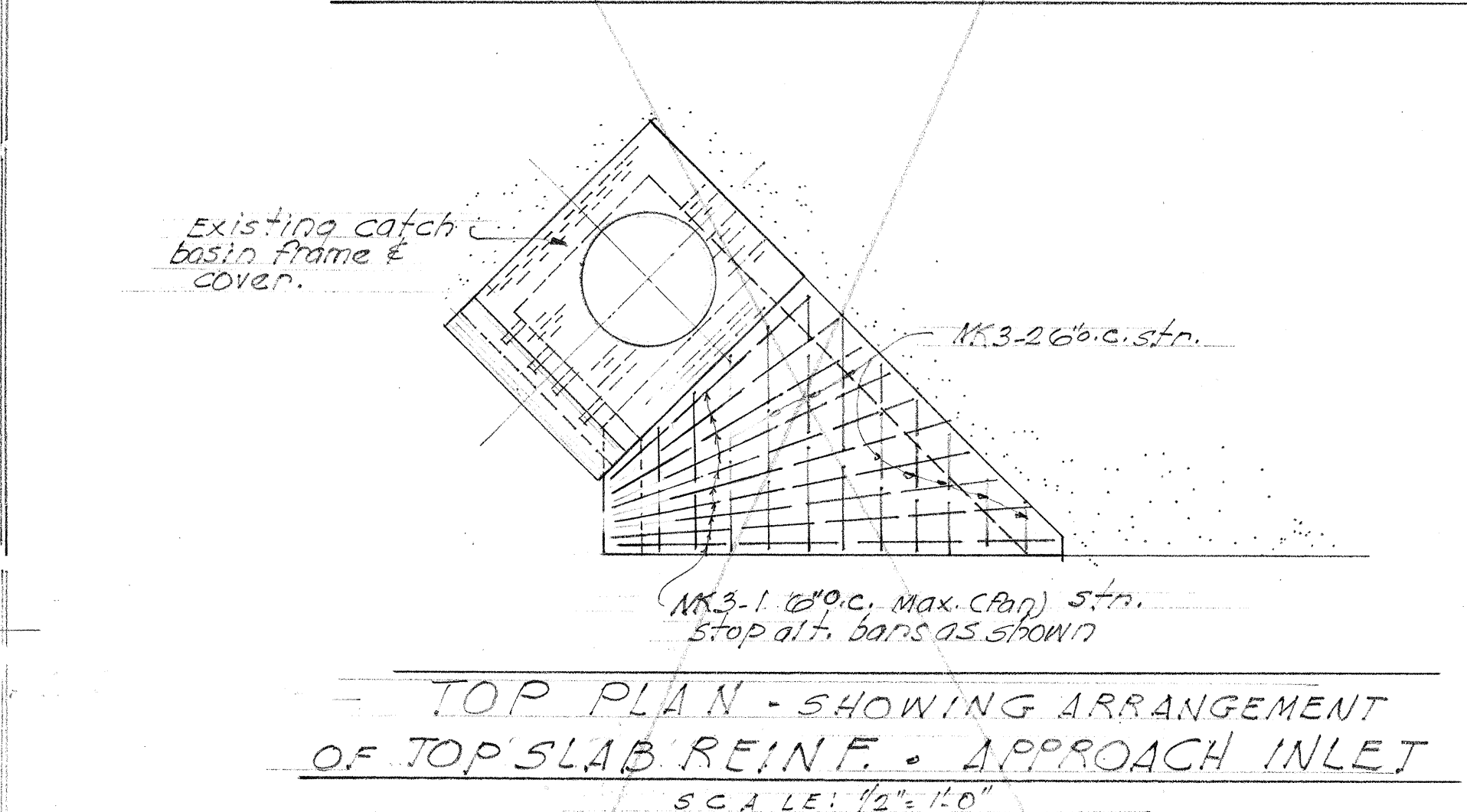
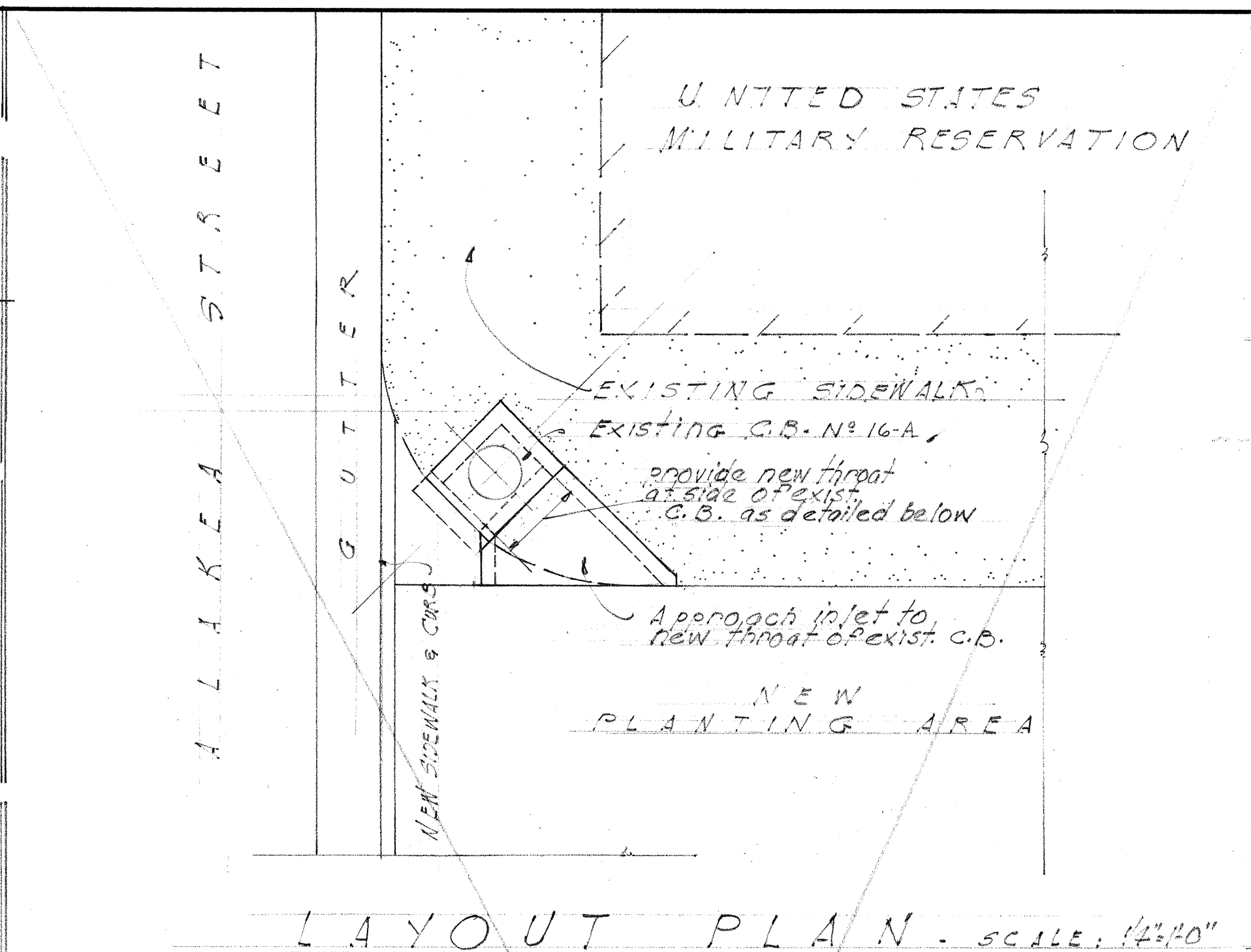
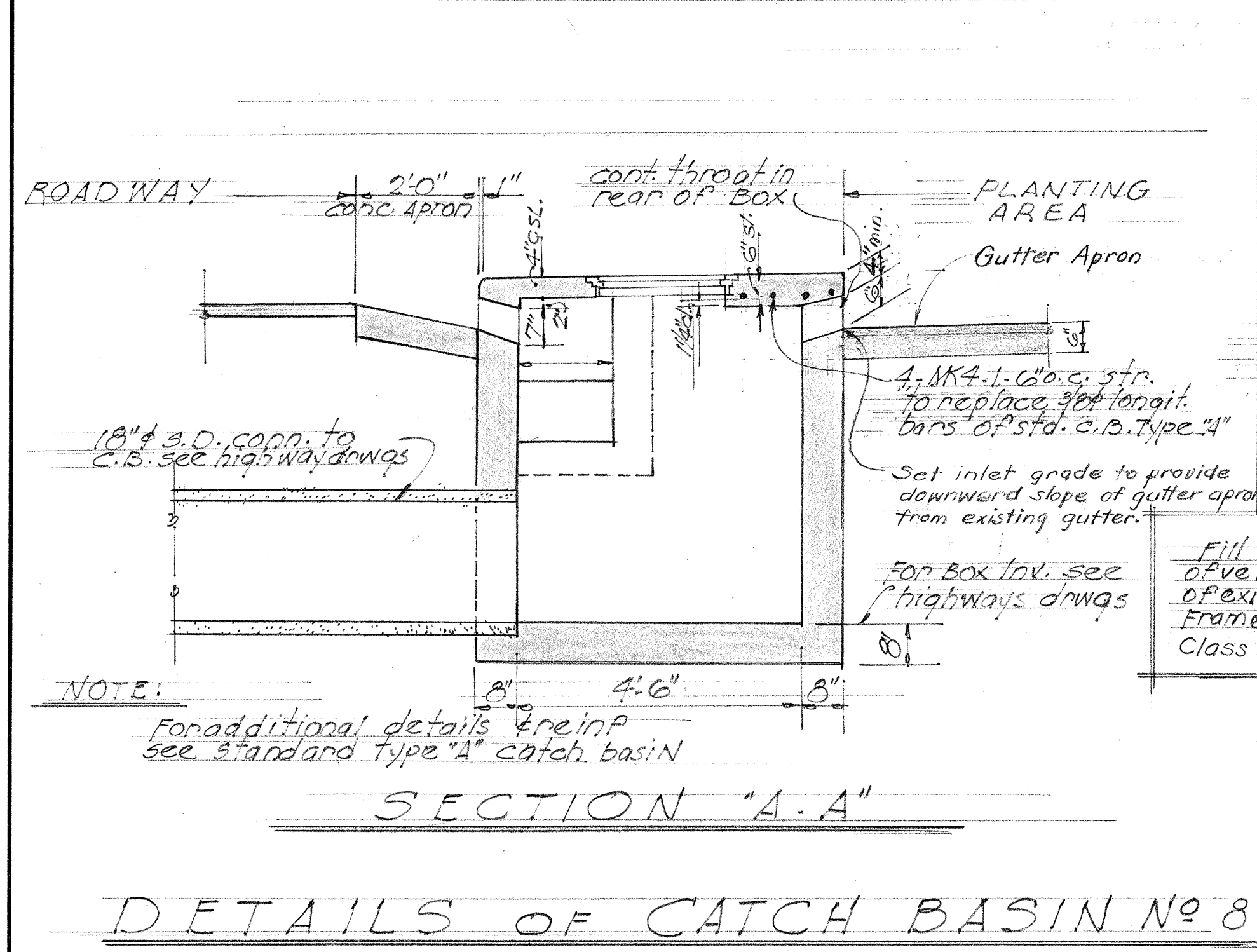
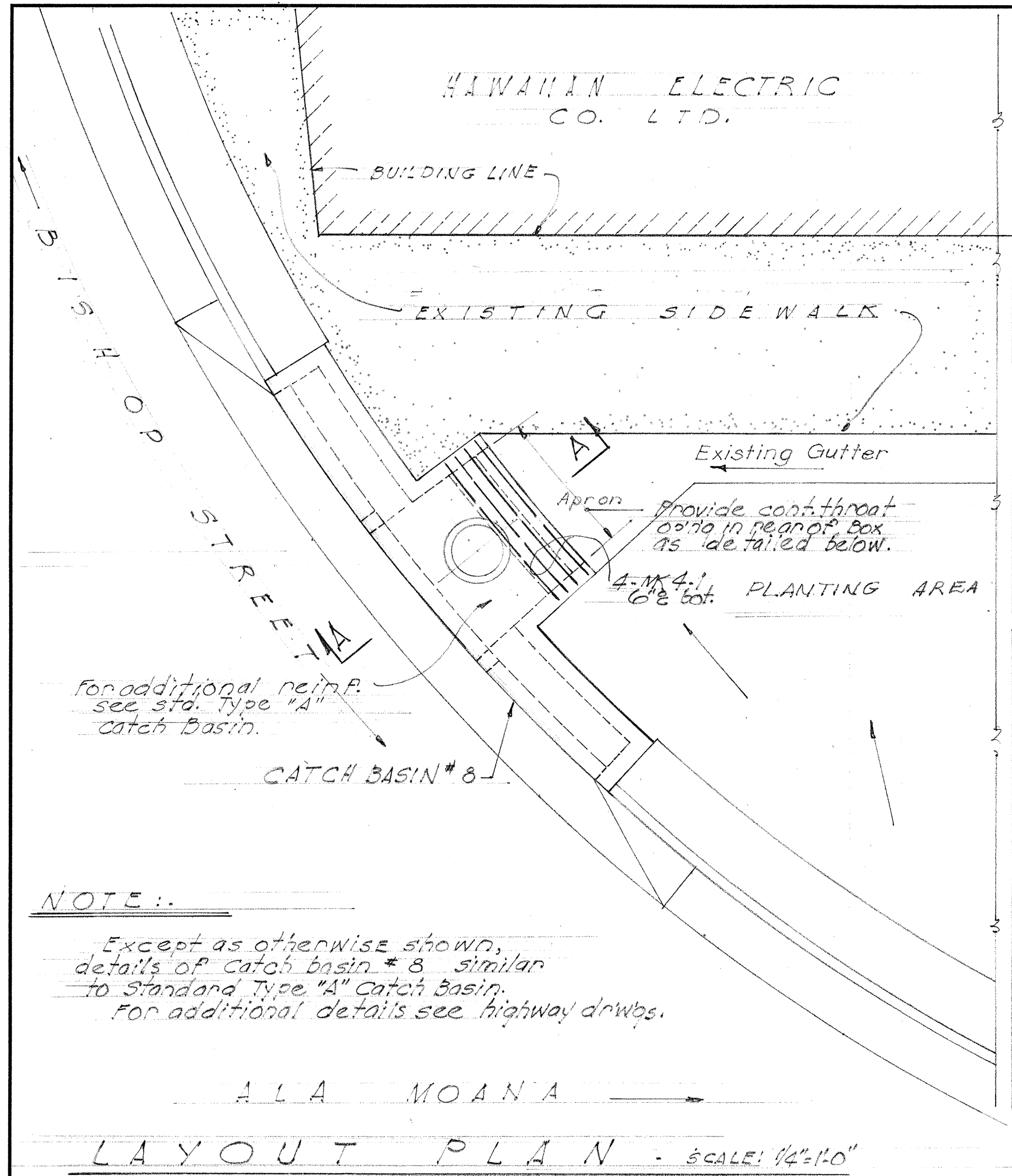


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	U44(G)	1951	33	44

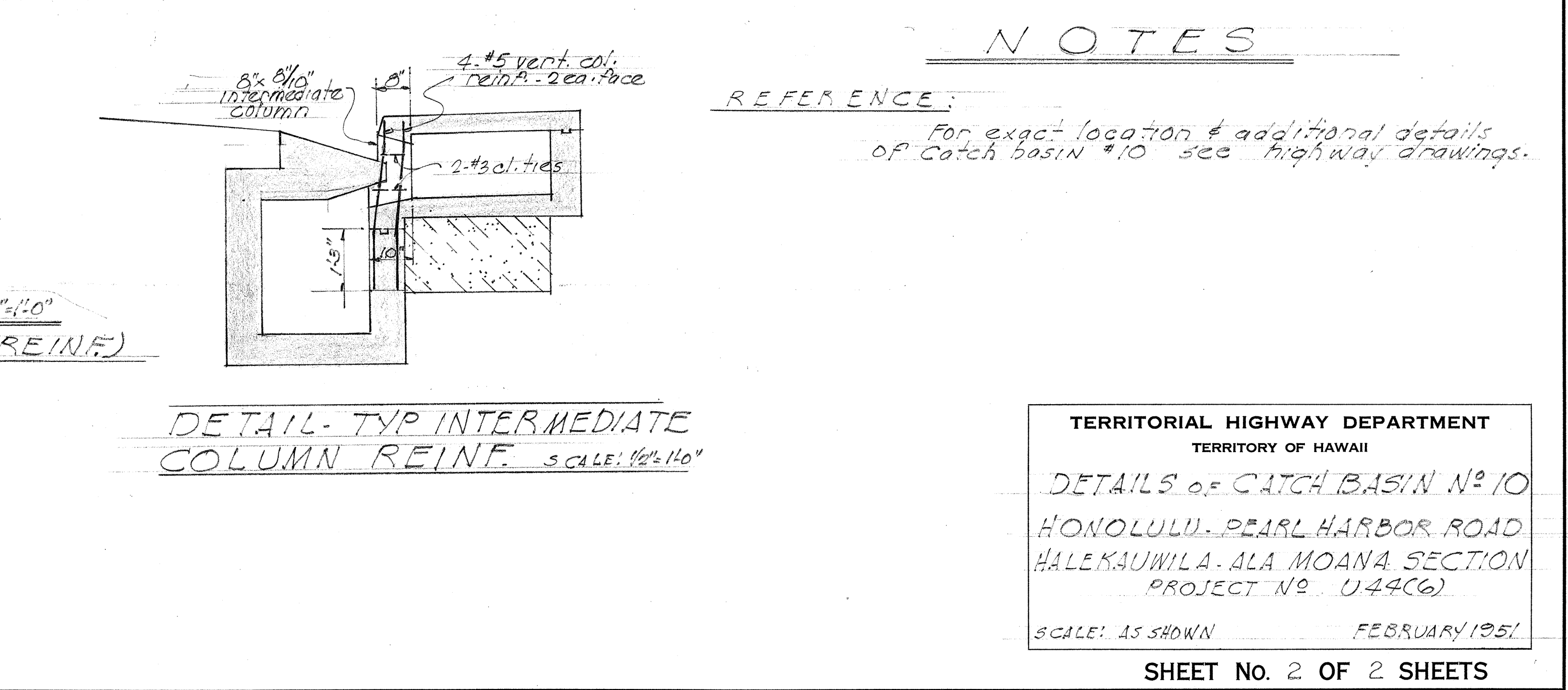
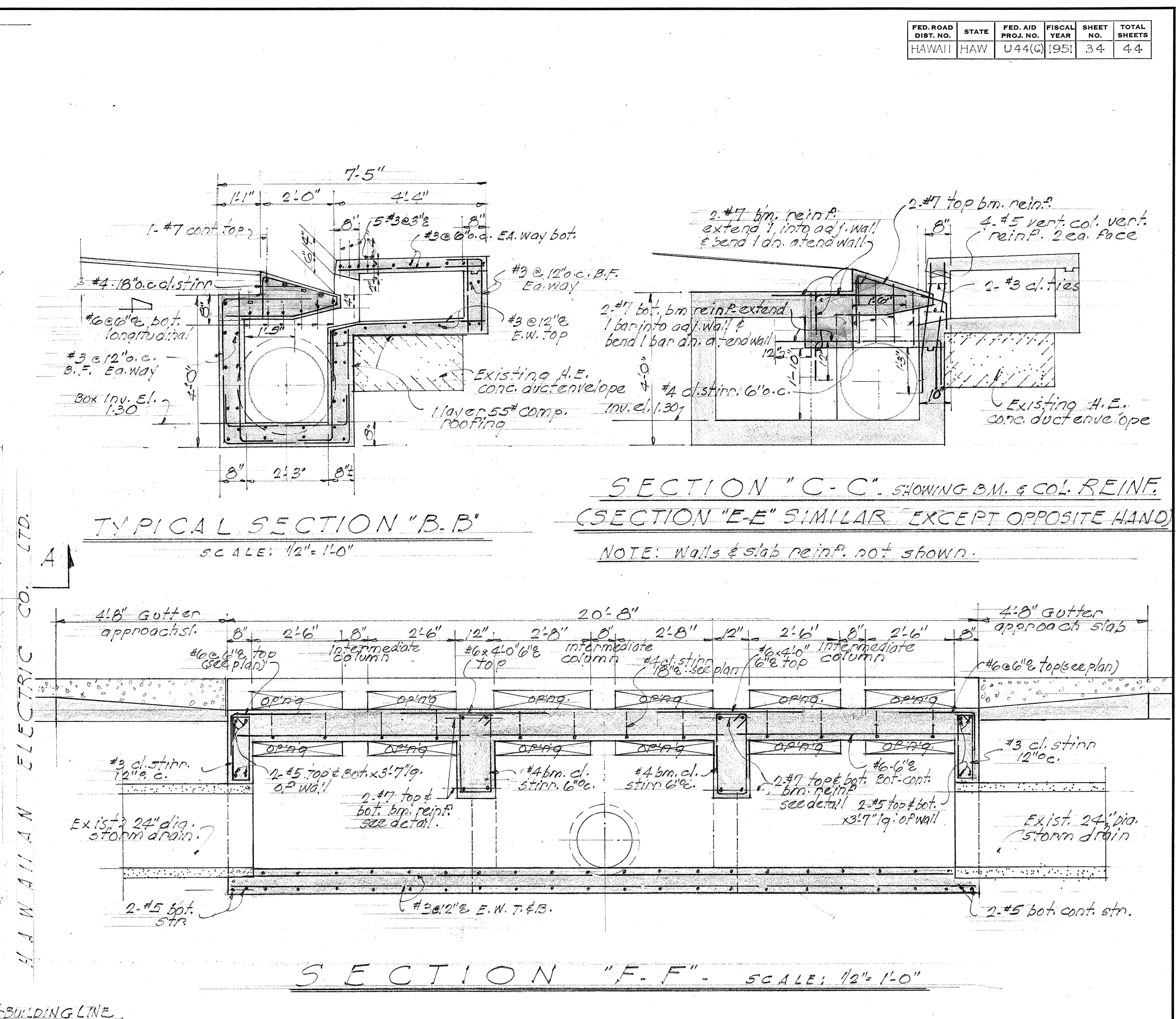
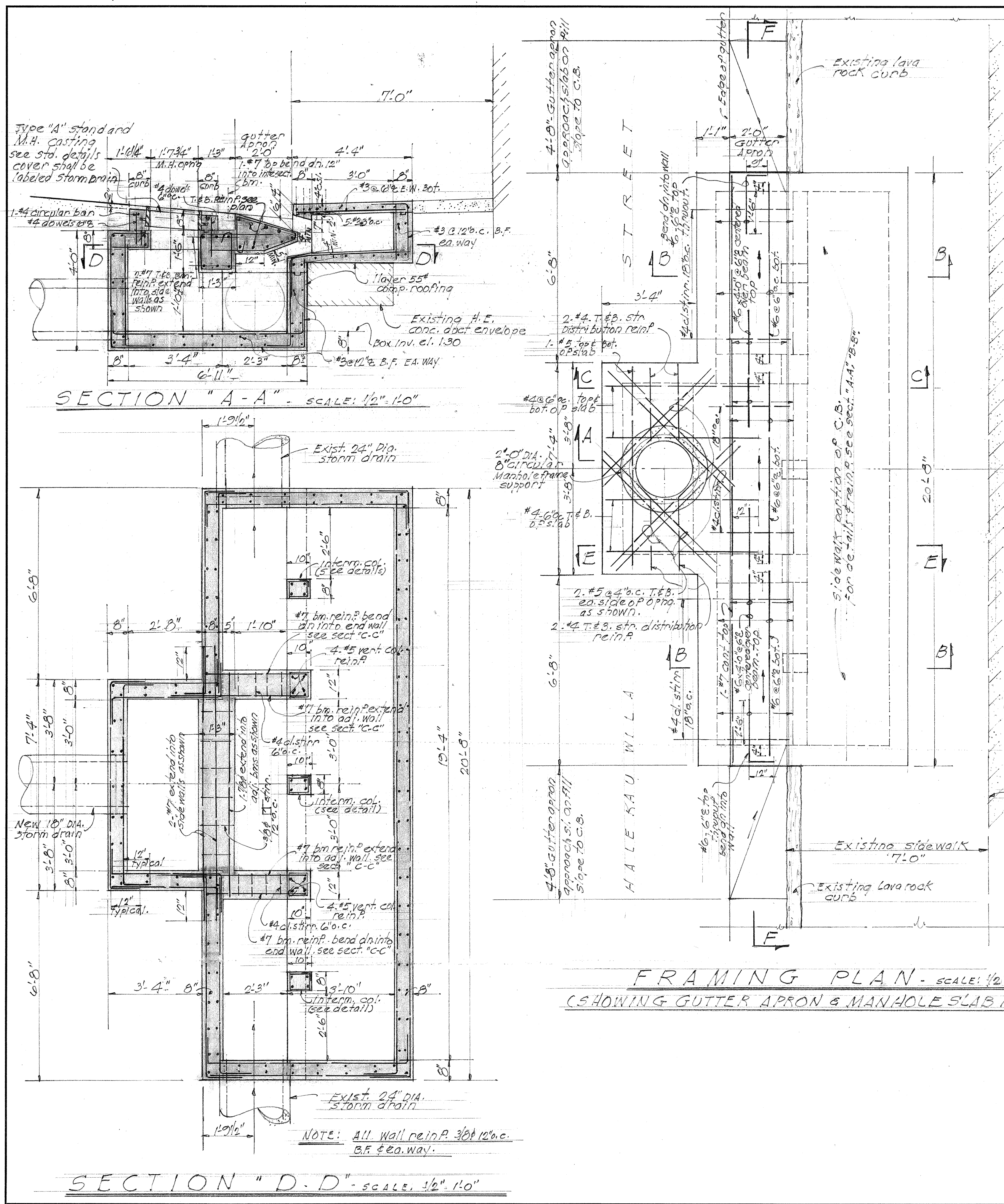


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
DETAILS OF CATCH BASIN
NO 8 & 16-A
HONOLULU-PEARL HARBOR ROAD
HALEKAUWILA-ALA MOANA SECTION
PROJECT NO U44(G)
SCALE: AS SHOWN FEBRUARY 1951

SHEET NO. 1 OF 2 SHEETS

5505.33

ORIGINAL PLAN
DESIGNED BY
CHECKED BY
DATE
NOTE BOOK
No.



NOTES

REFERENCE:
For exact location & additional details of catch basin #10 see highway drawings.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

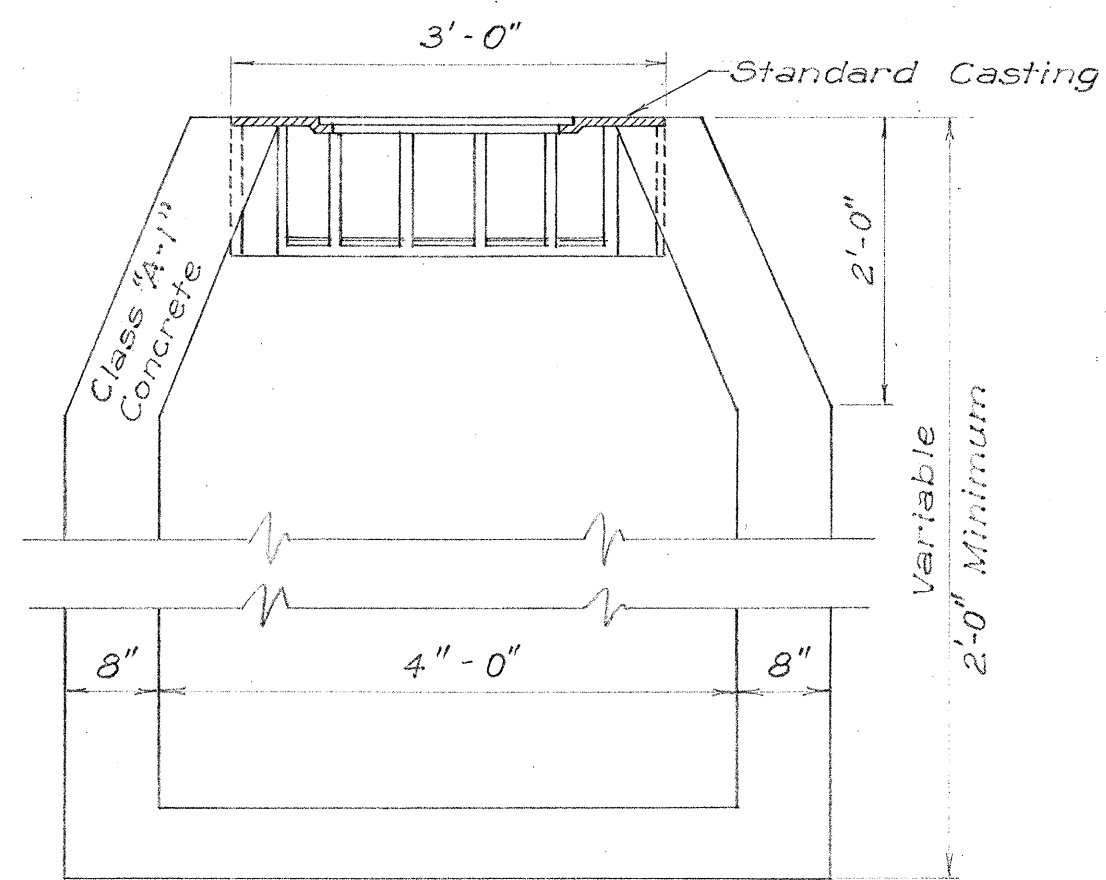
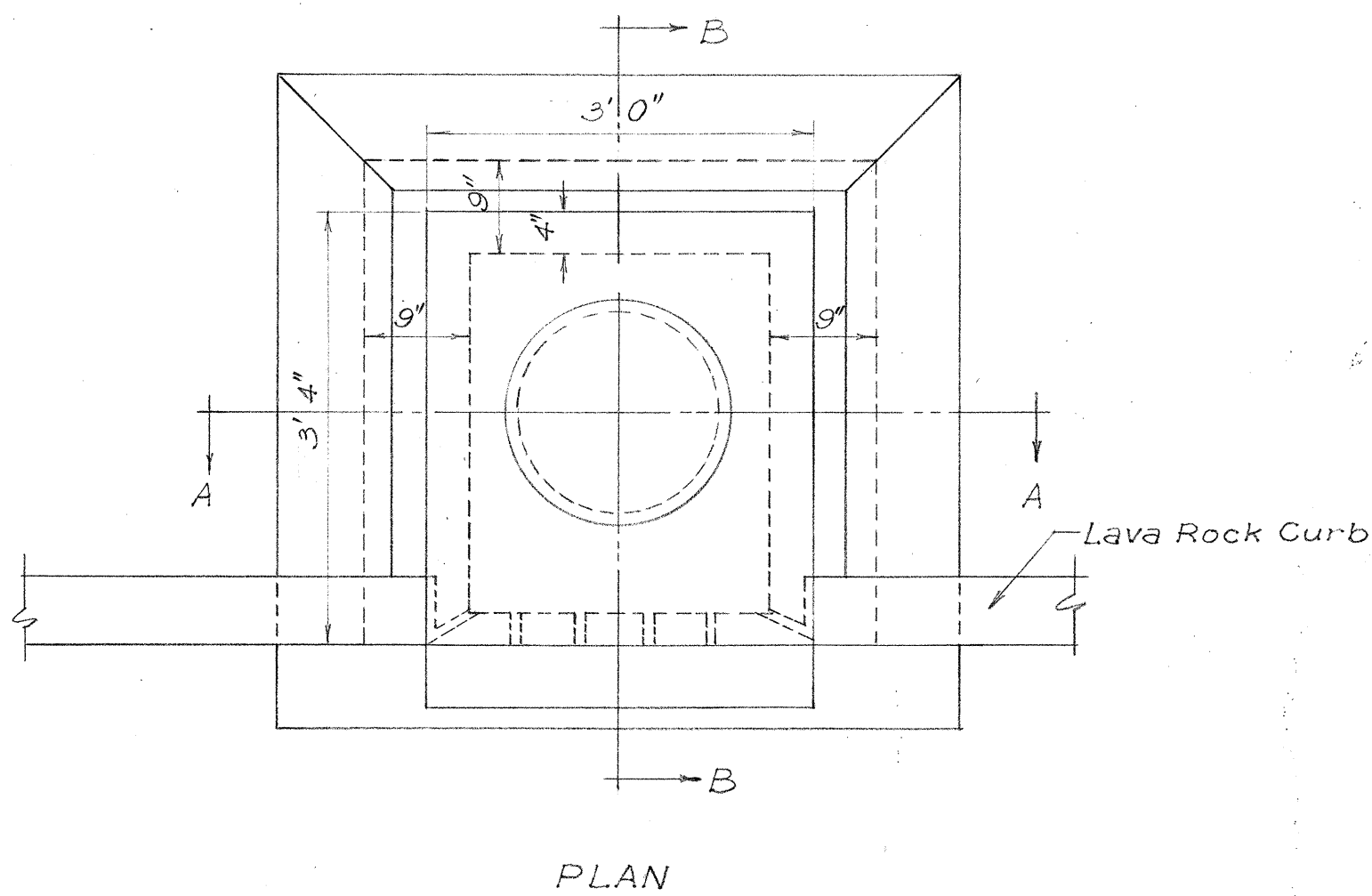
DETAILS OF CATCH BASIN NO. 10
HONOLULU, PEARL HARBOR ROAD
HALEKSWILA - ALA MOANA SECTION
PROJECT NO. U44(C)

SCALE: AS SHOWN FEBRUARY 1951

SHEET No. 2 OF 2 SHEETS

ESTIMATED QUANTITIES

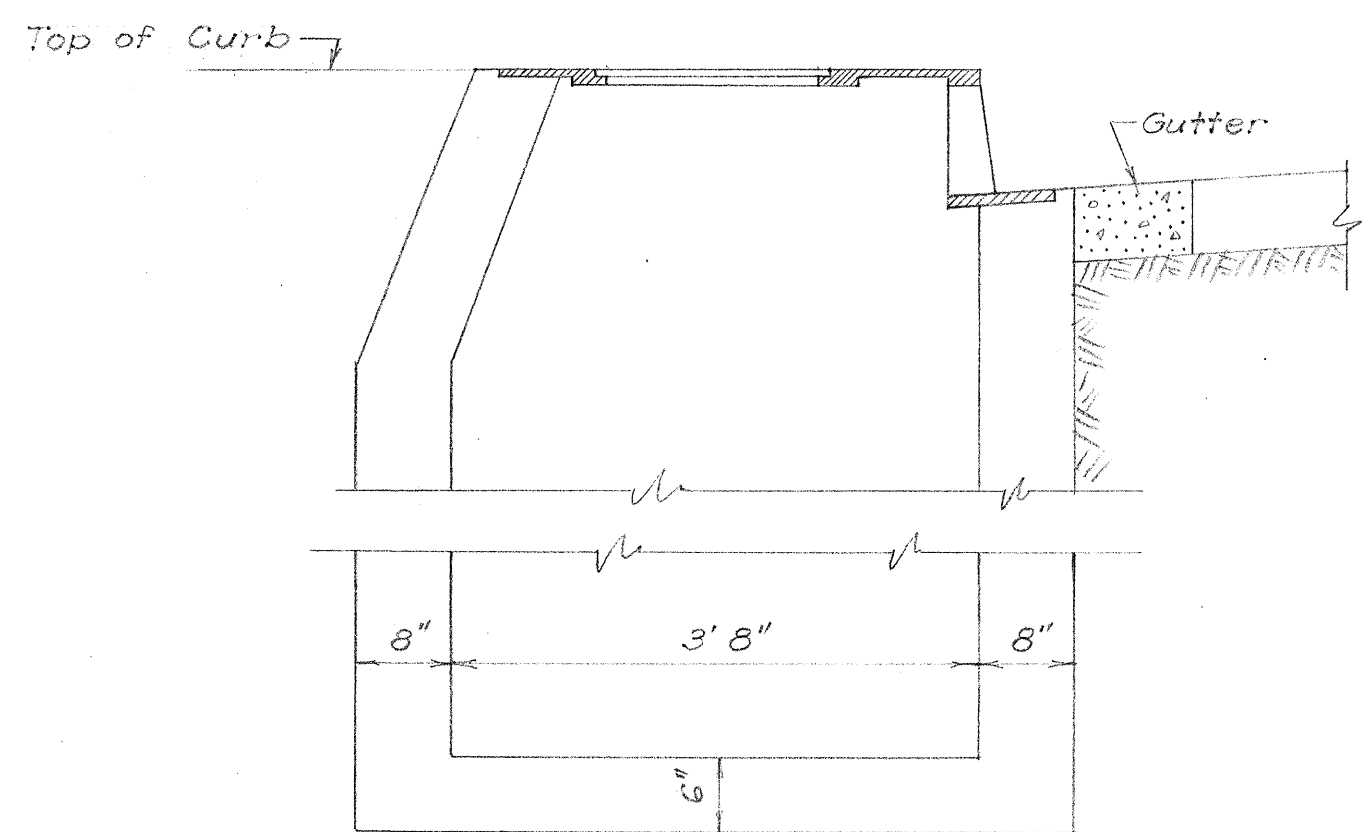
Item	Type	Location	Elevations			Std. MH Casting "A" "B"	Std. Strength R.C.C.P. Lin. Ft.	Extra Strength R.C.C.P. Lin. Ft.	Struct. Exc. C.Y.	Concrete C.Y.			Reinf. Steel Lbs.
			Top of Curb	Top of MH Floor	Inv.					Class A-1	Class B-1	Class D-1	
C.B. No. 1	A	Sta. 139+90 Left	6.02	6.08	3.70	1			18.8	6.3			125
2-12" R.C.C.P.		C.B. No. 1 to C.B. No. 23 - FU 44(B)						88	25.2	9.0			
C.B. No. 2	A	Sta. 141+25 Left	6.50	6.56	3.37	1			16.3	6.7			125
18" R.C.C.P.		C.B. No. 2 to C.B. No. 2a					101	206	176.3	36.0			
C.B. No. 2a	Std. 3'x3'	Fort at Ala Moana	5.70	5.74	2.29	Existing			7.5	1.9			
18" R.C.C.P.		C.B. No. 2a to Exst. D.I.						50	27.9	9.0			
12" R.C.C.P.		C.B. No. 2b to C.B. No. 2a					24		11.5				
C.B. No. 2b	Std. 3'x3'	Irwin Park	5.70	5.75	2.34	Salvage			7.3	2.0			
C.B. No. 3	A	Sta. 143+53 Left	5.70	5.76	3.30	1			19.2	6.3	2.6		125
18" R.C.C.P.		C.B. No. 3 to M.H. No. 1						15	6.8	0.6			
M.H. No. 1	D	Sta. 143+69 Left		5.55	3.23	1			4.7	0.6			13
C.B. No. 4	A	Sta. 144+25 Left	5.93	5.99	2.40	1			19.6	7.0			125
18" R.C.C.P.		C.B. No. 4 to M.H. No. 2						10	5.9	1.9			
M.H. No. 2	D	Sta. 144+26 Left		5.68	2.19	1			6.7	0.6			13
C.B. No. 5	A	Sta. 144+41 Right	5.90	5.96	3.78	1			20.4	6.2			125
12" R.C.C.P.		C.B. No. 5 to M.H. No. 3						14	4.6	2.0			
M.H. No. 3	D	Sta. 144+42 Right		5.93	2.07	1			6.4	0.6			13
C.B. No. 6	A	Sta. 142+15 Right	5.75	5.81	1.97	1			25.9	6.9			125
18" R.C.C.P.		C.B. No. 6 to C.B. No. 7						139	101.6	7.4			
C.B. No. 7	A	Sta. 144+57 Right	5.86	5.94	1.26	1			21.0				125
12" R.C.C.P.		C.B. No. 7a to C.B. No. 7					20		10.6				
C.B. No. 7a	Std. 3'x3'	Sta. 144+57 Right	5.70	5.75	1.70	Salvage			9.8	2.0			
24" R.C.C.P.		C.B. No. 7 to M.H. No. 12					20	118	102.6				
12" R.C.C.P.		C.B. No. 7b to M.H. No. 12							10.8				
C.B. No. 7b	Std. 3'x3'	Sta. 144+15 Right	5.70	5.75	1.70	Salvage			9.0	2.0			
M.H. No. 12	D	Sta. 144+18 Right		6.42	0.67	1			8.6	0.6			13
24" R.C.C.P.		M.H. No. 12 to M.H. No. 4						72	64.7				
M.H. No. 4	D	Sta. 146+76 Right		6.65	-0.63	1			10.2	0.6			13
24" R.C.C.P.		M.H. No. 4 to Outlet						90	97.0				
C.B. No. 8	Special A	Sta. 147+10 Left	5.56	5.62	1.05	1			15.6	7.2			133
12" R.C.C.P.		C.B. No. 8 to Exst. 18" S.D.						12	6.6				
C.B. No. 9	A	Sta. 146+25 Left	5.58	5.64	3.02	1			17.4	6.2	6.5		125
18" R.C.C.P.		C.B. No. 9 to C.B. No. 10						32	16.2				
C.B. No. 10	Special	Sta. 146+12 Right	5.63	5.40	1.70	1			33.6	12.4			1779
C.B. No. 11	A	Sta. 147+25 Left	5.70	5.76	0.30	1			24.6	8.0			125
18" R.C.C.P.		C.B. No. 11 to M.H. No. 5						43	35.7				
M.H. No. 5	D	Sta. 147+48 Left		5.55	0.10	1			9.9	0.6			13
18" R.C.C.P.		C.B. No. 12 to M.H. No. 5						38	27.8				
C.B. No. 12	A	Sta. 147+86 Left	5.43	5.49	0.52	1			24.7	7.5			125
C.B. No. 13	A	Sta. 149+80 Left	5.67	5.73	1.90	1			22.4	7.0			125
18" R.C.C.P.		C.B. No. 13 to M.H. No. 8						23	24.6				
M.H. No. 8	D	Sta. 149+95 Left		6.04	1.72	1			7.7	0.6			13
C.B. No. 14	A	Sta. 149+75 Right	4.96	5.02	1.75	1			31.8	6.5			125
18" R.C.C.P.		C.B. No. 14 to M.H. No. 9						78	53.4				
M.H. No. 9	D	Sta. 150+40 Left		5.92	1.35	1			8.0	0.6			13
D.I. No. 1	Standard	Sta. 151+23 Left		5.95	2.00	Salvage			5.3	1.4			
12" R.C.C.P.		D.I. No. 1 to M.H. No. 10						42	23.9				
M.H. No. 10	D	Sta. 151+45 Left		6.12	0.83	1			8.8	0.6			13
C.B. No. 14a	Std. 3'x3'	Sta. 152+55 Right		5.10	2.00	Salvage			7.0	1.7			
12" R.C.C.P.		C.B. No. 14a to M.H. No. 11						42	23.9				
M.H. No. 11	D	Sta. 152+55 Left		5.70	0.34	1			9.2	0.6			13
C.B. No. 15	B	Sta. 149+86 Left	5.41	5.47	1.24	1			21.7	5.7			95
18" R.C.C.P.		C.B. No. 15 to M.H. No. 6						14	8.2				
M.H. No. 6	D	Sta. 149+68 Left		5.40	1.05	1			7.3	0.6			13
C.B. No. 16	C	Sta. 150+75 Left	5.02	5.08	1.00	1			15.6	3.7			95
18" R.C.C.P.		C.B. No. 16 to M.H. No. 7						35	27.3				
M.H. No. 7	D	Sta. 150+37 Left		4.70	-1.31	1			10.5	0.6			13
C.B. No. 17	A	Sta. 150+75 Right	5.41	5.47	0.70	1			22.6	7.2			125
18" R.C.C.P.		C.B. No. 17 to Outlet						12	10.0				
C.B. No. 16a	Spl. 3'x3'	Sta. 150+150 Left				Existing			1.3	0.6			25
C.B. No. 18	A	Sta. 154+25 Left	4.79	4.85	0.80	1			19.7	7.0			125
18" R.C.C.P.		C.B. No. 18 to C.B. No. 19						77	60.0				
C.B. No. 19	A	Sta. 153+75 Right	4.75	4.75	0.40	1			25.2	7.2			125
18" R.C.C.P.		C.B. No. 19 to Outlet						6	4.4				
Sea Wall		Ala Moana									16.7		
Retaining Wall		Irwin Park							38.0				
Oil Line Trench		Ala Moana							3.5	3.6			303



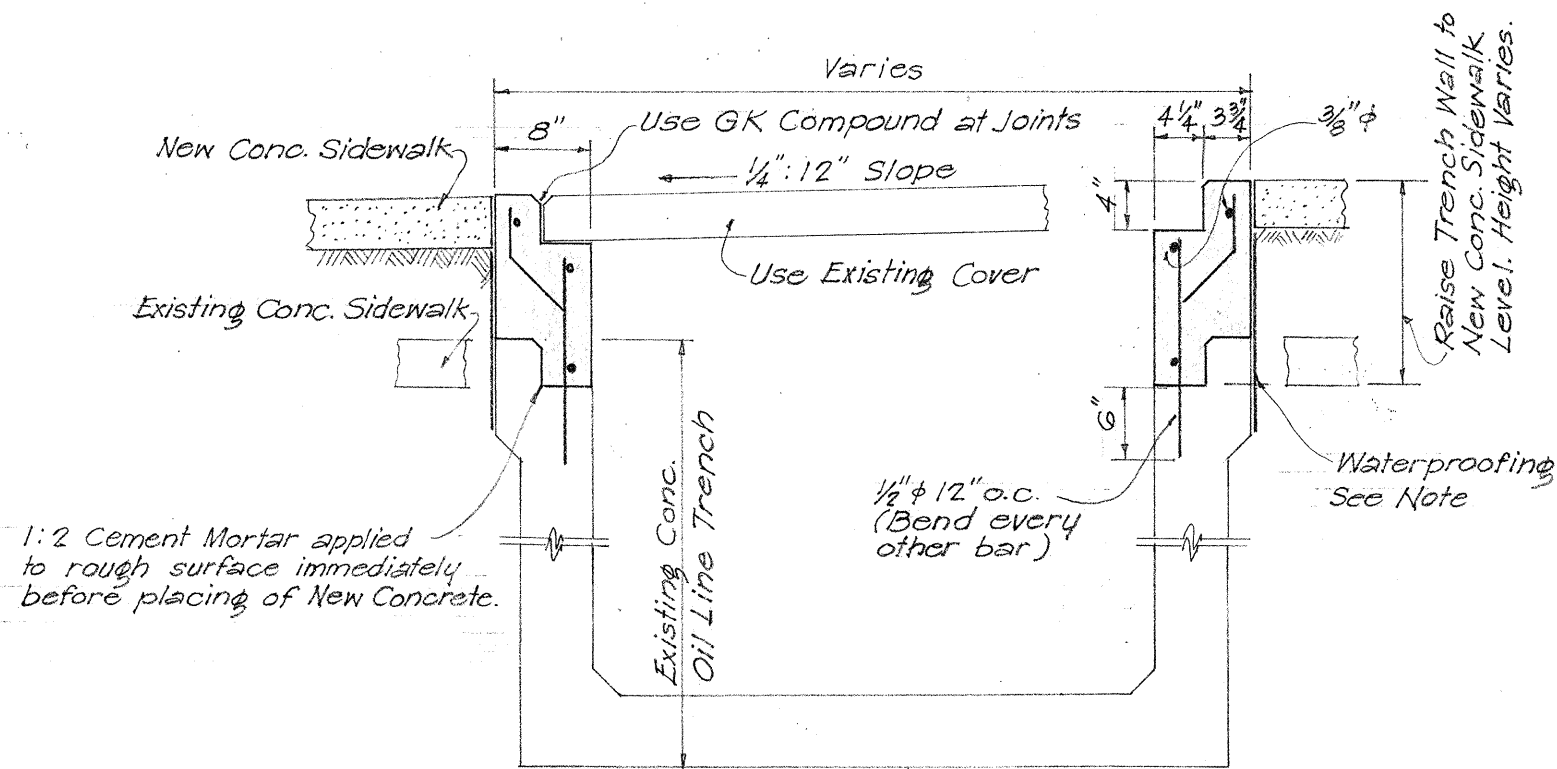
SECTION "A-A"

DETAIL OF STANDARD 3'x3' CATCH BASIN

Scale: 3/4" = 1'-0"



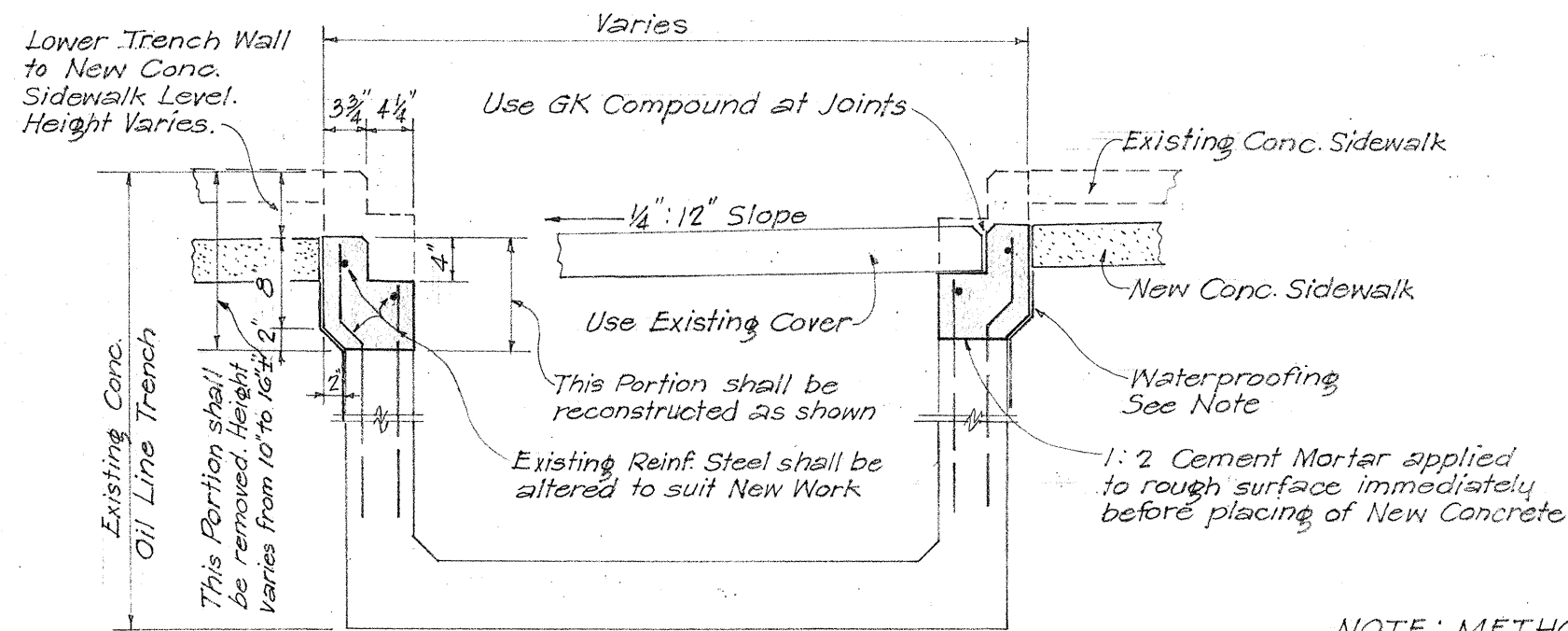
SECTION "B-B"



SECTION SHOWING METHOD OF RAISING EXISTING OIL LINE TRENCH

Sta. 1+10± to 2+65±

Scale: 3/4" = 1'-0"



SECTION SHOWING METHOD OF LOWERING EXISTING OIL LINE TRENCH

Sta. 0+65± to 1+10±

Sta. 3+25± to 4+65±

Scale: 3/4" = 1'-0"

NOTE: METHOD OF APPLYING WATERPROOFING

- 1- Map Surface either side of joint as required with Asphalt 50-100 penetration (ASTM Desig. D-5-25) applied at 200°F.
- 2- Apply 1 Layer of 55 lb. composition roofing to hot asphalt.
- 3- Map surface of composition roofing and 3" beyond all around with thick coat of asphalt as specified under (1).

TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

ESTIMATED QUANTITIES OF STRUCTURES
AND DETAIL OF STD. 3'x3' CATCH BASIN
HONOLULU-PEARL HARBOR ROAD
HALEKAUWILA-ALA MOANA SECTION
PROJECT NO. U44(G)

Scale: As Shown

May 1951

SHEET NO. 1 OF 1 SHEETS

5505.35