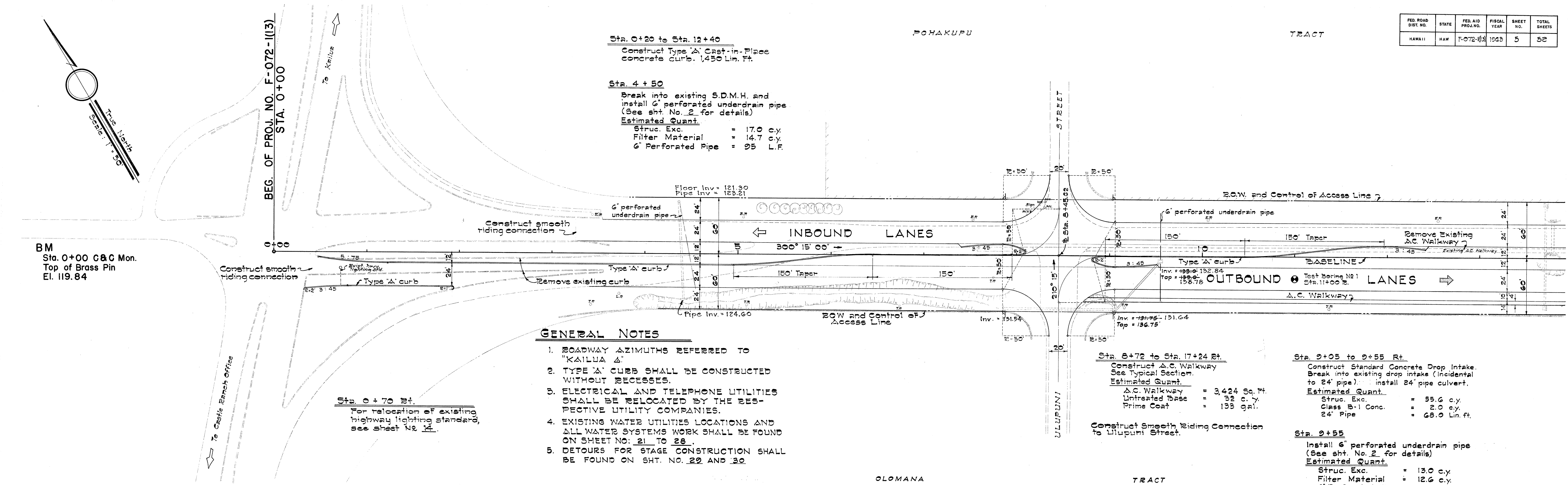


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-072-1(13)	1963	5	52



GENERAL NOTES

1. ROADWAY AZIMUTHS REFERRED TO "KAILUA Δ"
2. TYPE 'A' CURB SHALL BE CONSTRUCTED WITHOUT RECESSES.
3. ELECTRICAL AND TELEPHONE UTILITIES SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES.
4. EXISTING WATER UTILITIES LOCATIONS AND ALL WATER SYSTEMS WORK SHALL BE FOUND ON SHEET NO. 21 TO 28.
5. DETOURS FOR STAGE CONSTRUCTION SHALL BE FOUND ON SHT. NO. 22 AND 32.

Sta. 0+70 Rt.
For relocation of existing highway lighting pole, see sheet No. 14.

Sta. 8+72 to Sta. 17+24 Rt.
Construct A.C. Walkway
See Typical Section.
Estimated Quant.
A.C. Walkway = 3,424 Sq. Ft.
Untreated Base = 32 c.y.
Prime Coat = 133 gal.

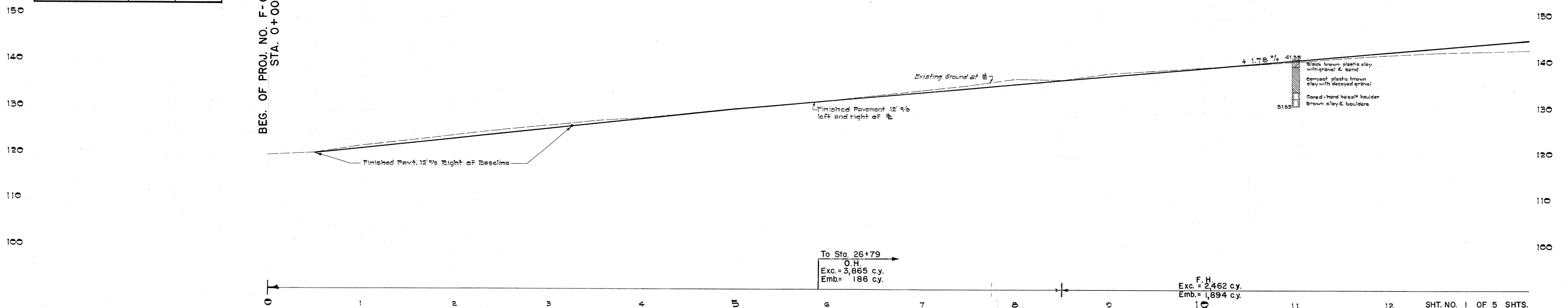
Construct Smooth Riding Connection to Ulupuni Street.

Sta. 9+05 to 9+55 Rt.
Construct Standard Concrete Drop Intake.
Break into existing drop intake (incidental to 24\"/>

Sta. 9+55
Install 6\"/>

POINTS OF ACCESS		
STATION	ACCESS WIDTH	
	LEFT	RIGHT
Sta. 8+47	116.00	116.00
Sta. 17+50	116.00	116.00
Sta. 21+20		34.53
Sta. 29+25	50.00	50.00
Sta. 34+72	40.00	
Sta. 46+13		50.00
Sta. 70+50	80.00	80.00

BEG. OF PROJ. NO. F-072-1(13)
STA. 0+00



To Sta. 26+79
O.H.
Exc. = 3,865 c.y.
Emb. = 186 c.y.

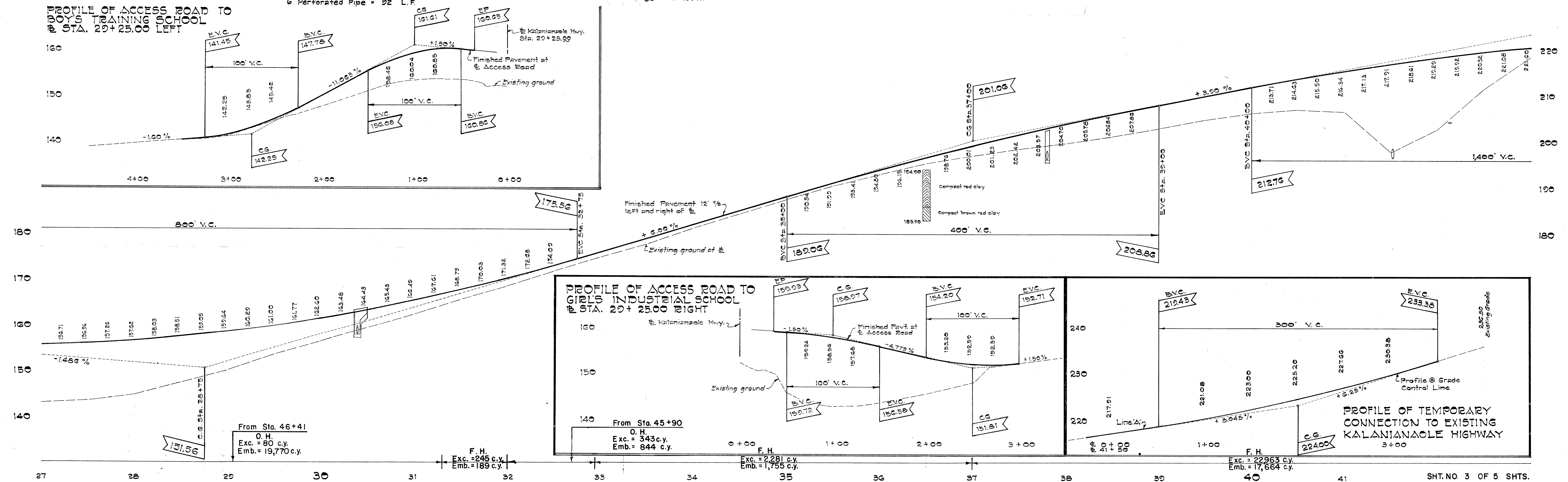
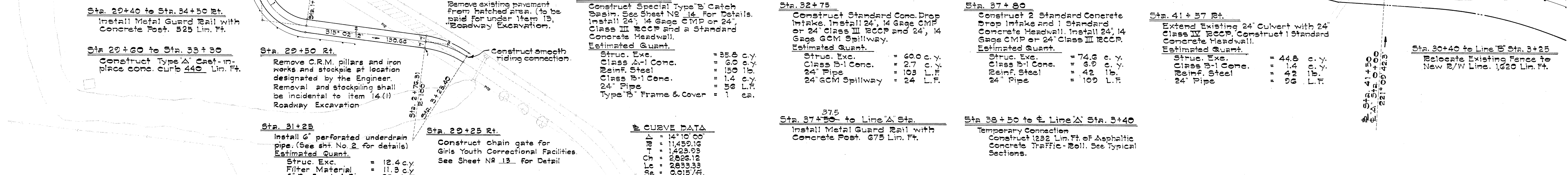
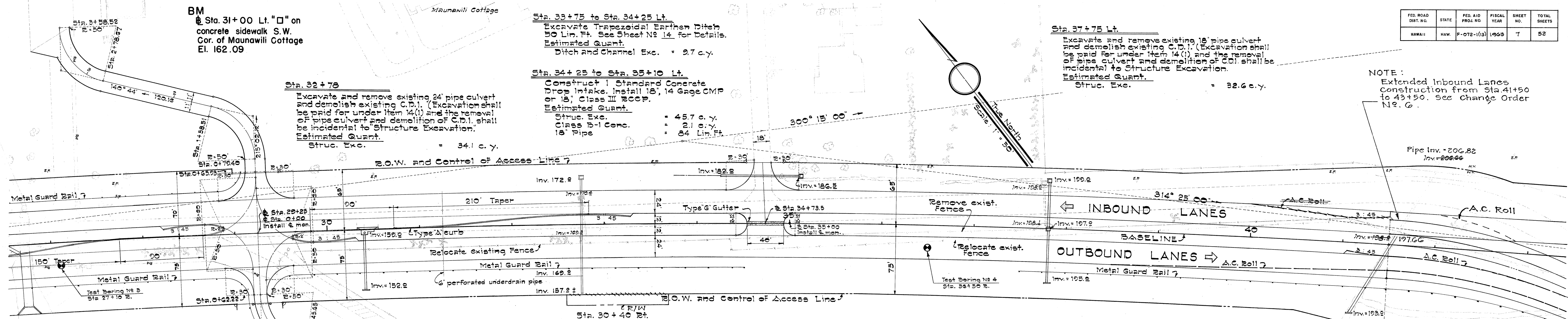
F.H.
Exc. = 2,462 c.y.
Emb. = 1,894 c.y.

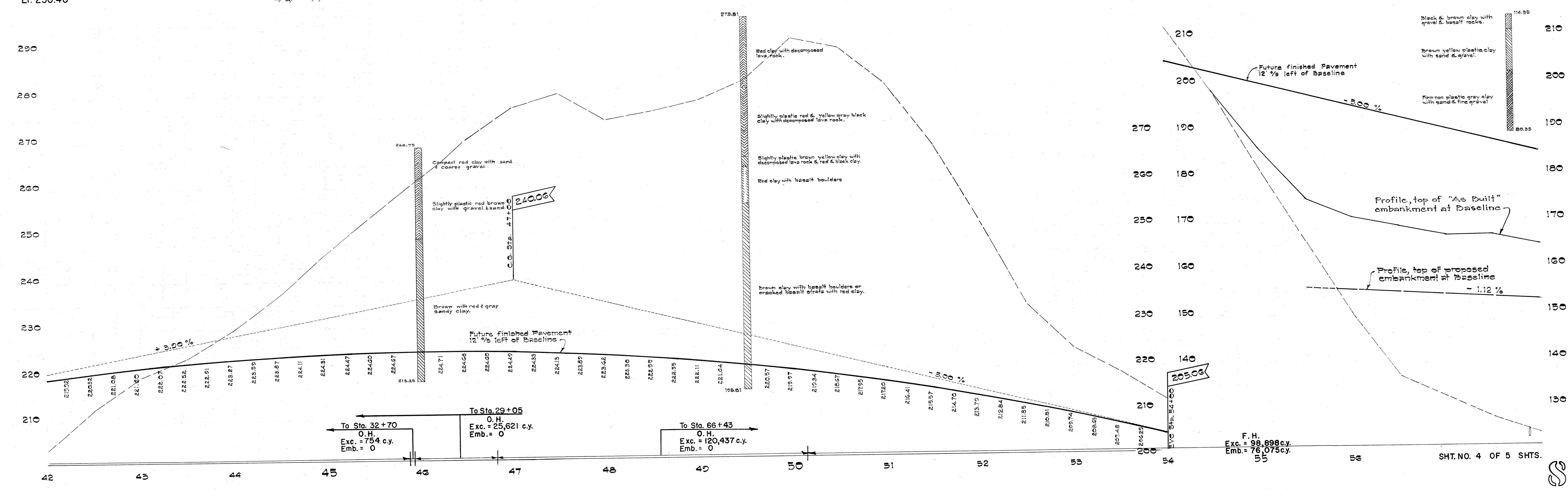
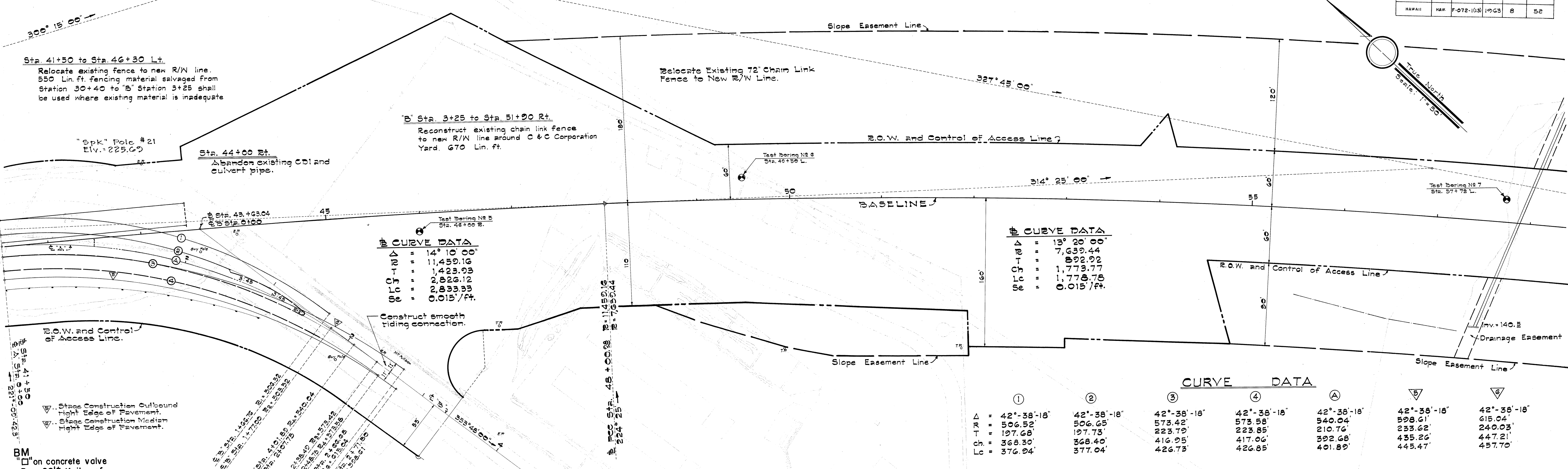
Hawaiian Electric Co. Baseyard

SCHOOL

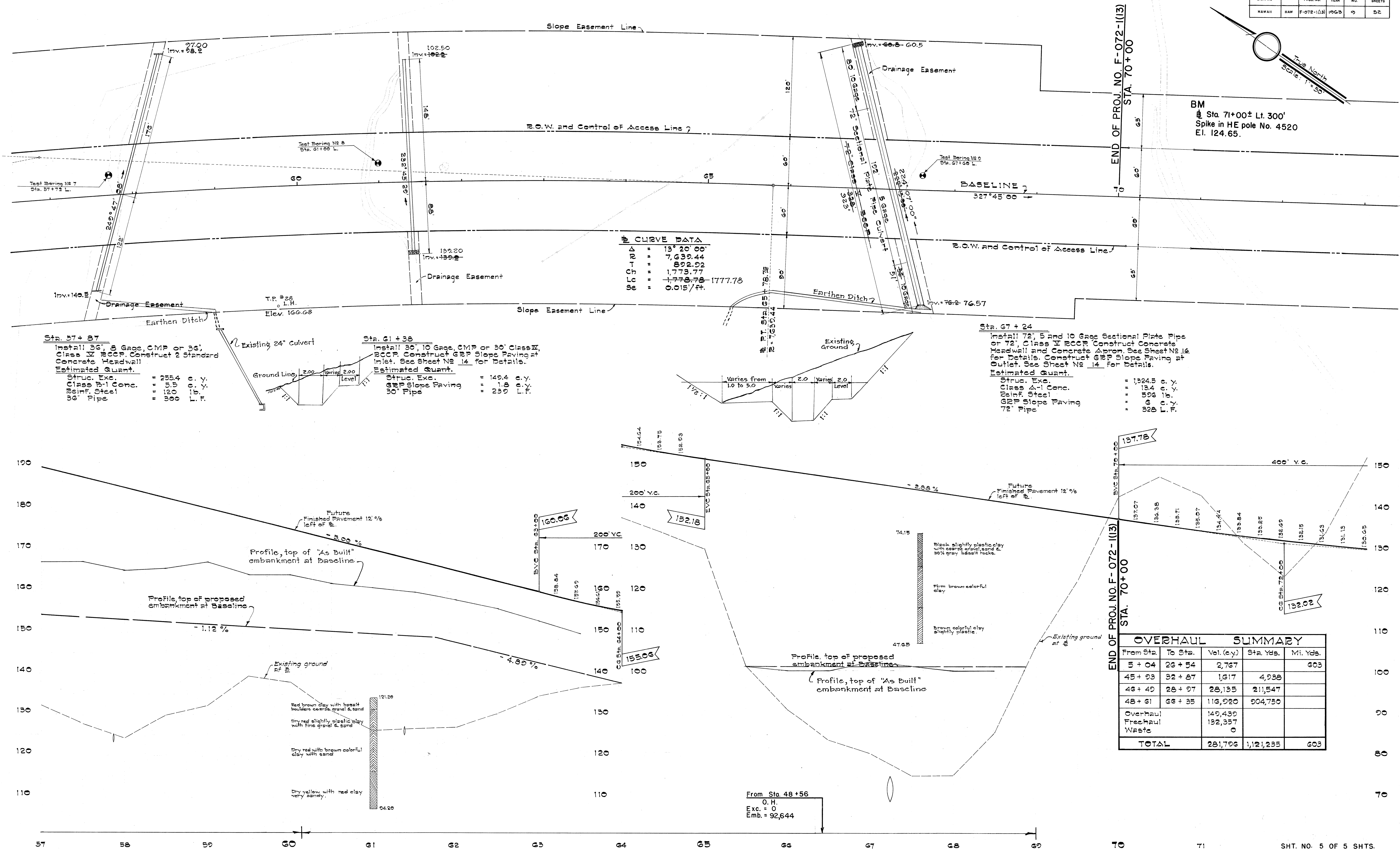
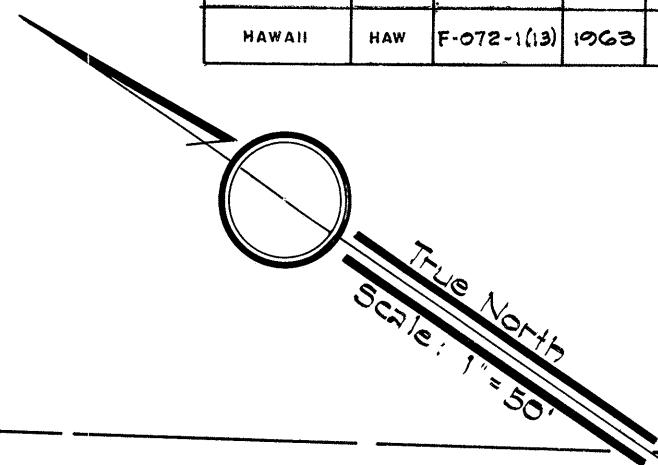
From Sta. 5 + 89
O. H.
Exc. = 0
Emb. = 2,787 c.y.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(3)	1968	7	52





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-072-1(13)	1963	9	32



CURVE DATA

Δ	= 13° 20' 00"
R	= 7,639.44
T	= 892.92
Ct	= 1,773.77
Lc	= 1,773.78
Se	= 0.015/ft.

Sta. 57+37
Install 36" 8 Gage, CMP or 36" Class X RCCP. Construct 2 Standard Concrete Headwall.
Estimated Quant.
Struc. Exc. = 255.4 c. y.
Class X-1 Conc. = 5.5 c. y.
Reinf. Steel = 120 lb.
36" Pipe = 300 L.F.

Sta. 61+38
Install 30" 10 Gage, CMP or 30" Class X RCCP. Construct GRP Slope Paving at Inlet. See Sheet NS 14 for Details.
Estimated Quant.
Struc. Exc. = 149.4 c. y.
GRP Slope Paving = 1.8 c. y.
30" Pipe = 239 L.F.

Sta. 67+24
Install 72" 5 and 10 Gage Sectional Plate Pipe or 72" Class X RCCP. Construct Concrete Headwall and Concrete Apron. See Sheet NS 14 for Details. Construct GRP Slope Paving at Outlet. See Sheet NS 14 for Details.
Estimated Quant.
Struc. Exc. = 1324.5 c. y.
Class X-1 Conc. = 13.4 c. y.
Reinf. Steel = 596 lb.
GRP Slope Paving = 6 c. y.
72" Pipe = 328 L.F.

OVERHAUL SUMMARY

From Sta.	To Sta.	Vol. (c.y.)	Sta. Yds.	Mi. Yds.
5 + 04	26 + 54	2,767		603
45 + 03	32 + 27	1,617	4,938	
46 + 40	28 + 27	28,135	211,547	
48 + 61	66 + 35	116,920	904,750	
Overhaul		149,430		
Frehaul		132,357		
Waste		0		
TOTAL		281,796	1,121,235	603

From Sta. 48+56
O.H.
Exc. = 0
Emb. = 92,644