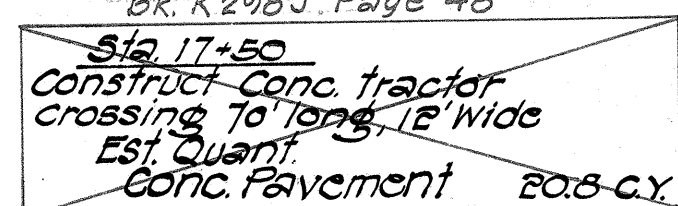


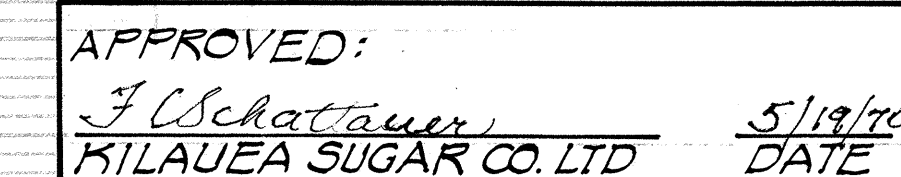
1. All azimuths are referred to "Kamoku" Δ .
2. All B.M.'s are referred to Mean Sea Level Datum.
3. $\pm$ Monuments shall be installed according to R/W Data.
4. Relocation of all existing utilities shall be done by others
5. Grading work required for field and irrigation roads shall be done as directed by the Engineer. Grading for all irrigation roads shall be incidental to "Roadway Excavation".
6. The Contractor shall maintain continuity in the passage of irrigation water to all points during construction operations to the satisfaction of Kilauea Sugar Co. Ltd.
7. The exact location of the realigned irrigation ditches shall be determined in the field by the Engineer.
8. All existing pavements over which embankments are to be constructed shall be scarified. Cross-hatched areas of existing pavement shown on the plans shall be scarified and removed.
9. The Contractor shall keep at least one lane open to traffic during his working hours and both lanes open to traffic during non-working hours.
10. Installation and removal of Utility Poles shall be done by others.

~~Cane Haul Road Sta. -1+00± Lt. Rev. 6-10-71~~
~~Install H.T. Co 435-TB Pullbox - 1 ea. 8-2-71~~
~~Install one 3-inch Galvanized~~
~~Steel Pipe (Direct Burial) - 50 L.F.~~



$\Delta = 26^{\circ} 04' 02''$
 $\Delta/2 = 13^{\circ} 02' 01''$
 $R = 2000.00'$
 $T = 462.97'$
 $C = 902.09'$
 $LC = 909.92'$
 $S.E = 0.077 / \sqrt{F}$

- New Pole
- ✗ Existing Pole to be Removed
- Existing Pole to Remain

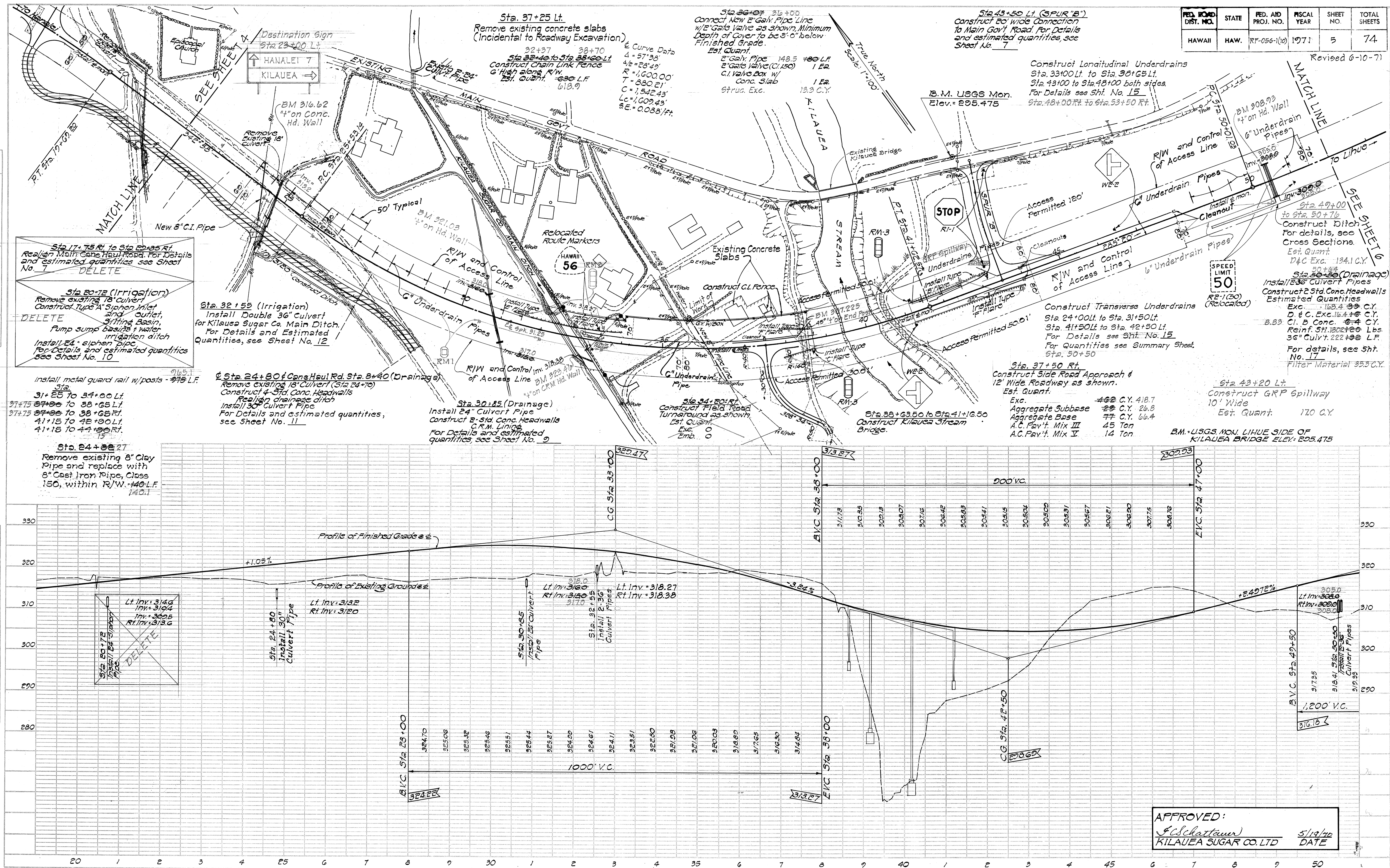


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RF-056-1(10)	1971	5	74

Revised 6-10-71

PLAN	DATE	BY
SURVEYED		
DESIGNED		
ENGINEER		
NOTE BOOK		
NO.		

PROFILE	DATE	BY
SURVEYED		
DESIGNED		
ENGINEER		
NOTE BOOK		
NO.		



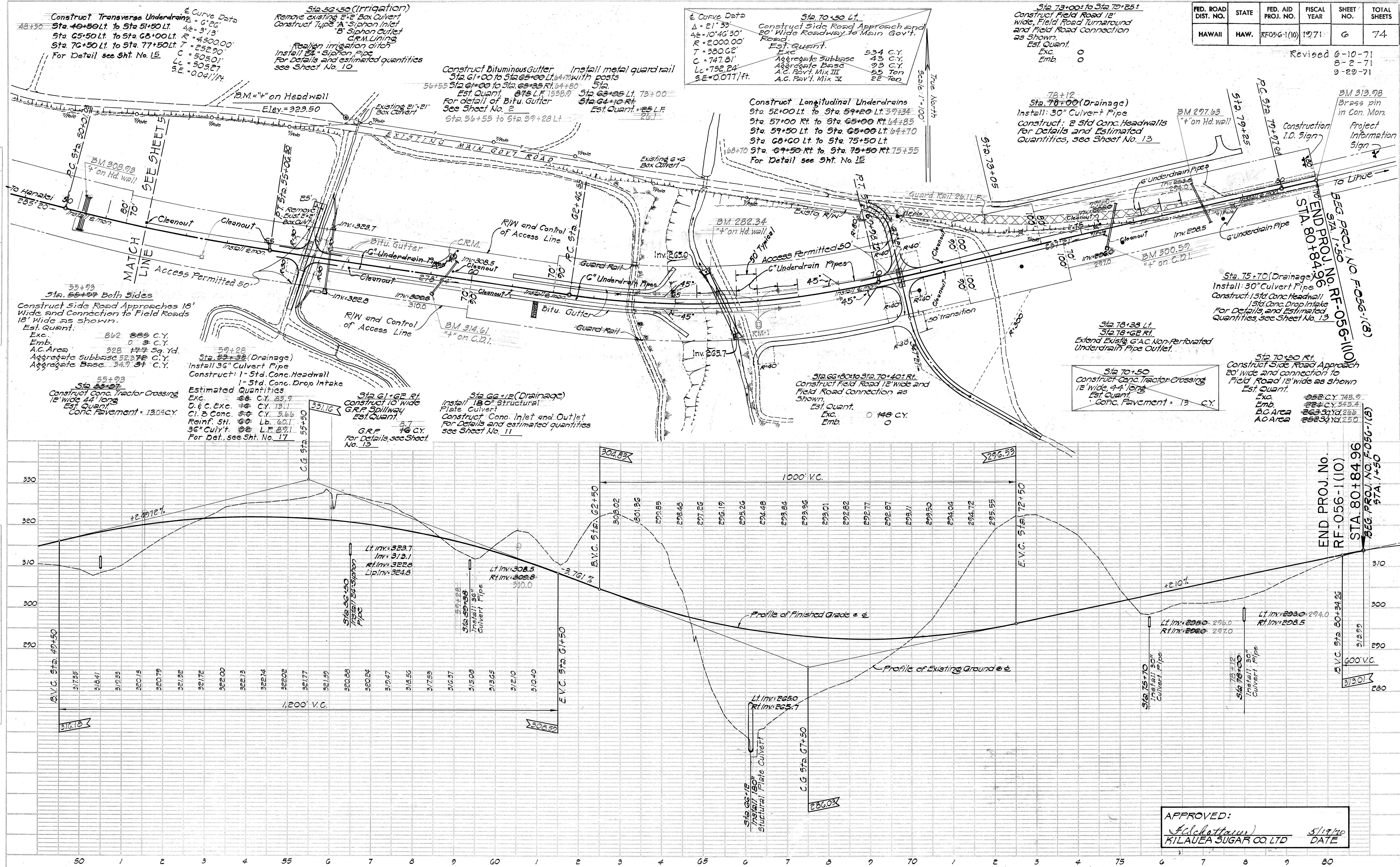
APPROVED:
(Signature)
 KILAUEA SUGAR CO. LTD.
 DATE 5/19/70

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	KF056-1(10)	1971	6	74

Revised 6-10-71
8-2-71
9-29-71

PLAN	DATE	BY
SUBMITTED		
NOTE BOOK		
ALIGNED CHECKED		
BL. OF WAY CHECKED		
NO.		

PROFILE	DATE	BY
SUBMITTED		
NOTE BOOK		
BL. OF WAY CHECKED		
STRUCTURE NOTING CHECKED		
NO.		



PLAN	DATE	BY	NO.
SURVEYED			
NOTE BOOK			
ALIGNED CHECKED			
RT. OF WAY CHECKED			

PROFILE	DATE	BY	NO.
SURVEYED			
NOTE BOOK			
GRADES CHECKED			
STANDARD NOTATION CHECKED			

1/2 Cane Haul Road (L.T.)
 Curve Data
 Δ = 20° 38'
 R = 14° 45'
 T = 224.50'
 C = 50.41'
 Lc = 116.14'

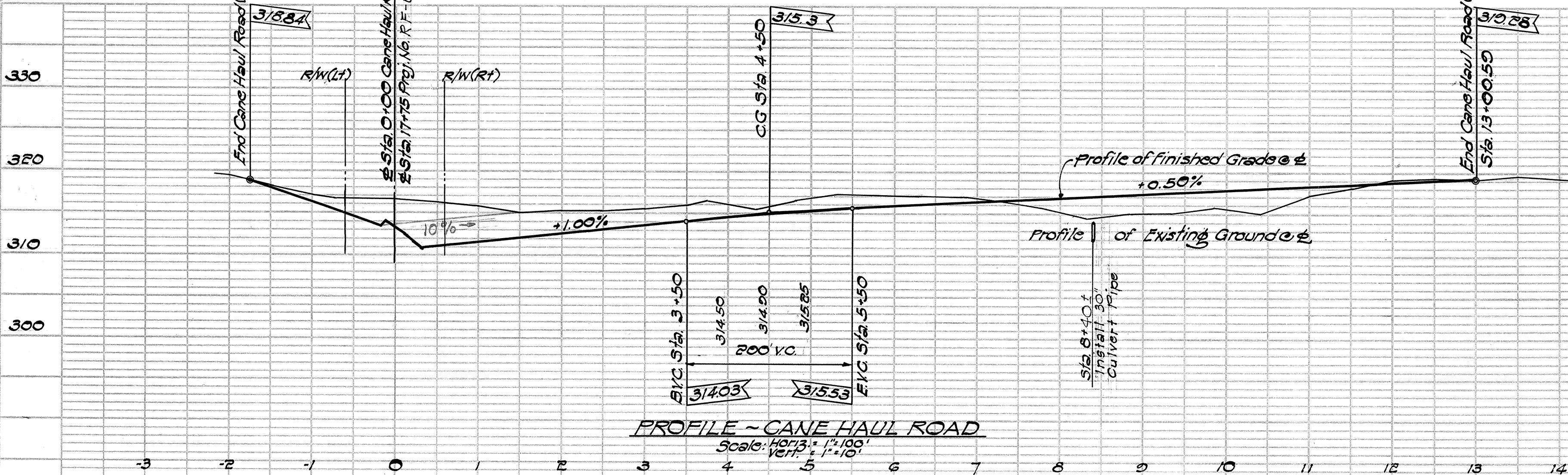
1/2 Cane Haul Road (Rt.)
 Curve Data
 Δ = 180°
 R = 60°
 T = 1420.03'
 C = 142.03'
 Lc = 171.74'

1/2 Cane Haul Road (Rt.)
 Curve Data
 Δ = 35° 34'
 R = 17° 47'
 T = 240.32'
 C = 77.08'
 Lc = 146.80'

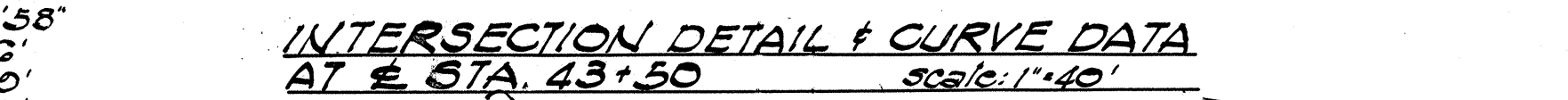
1/2 Cane Haul Road (Rt.)
 Reverse Curve Data Similar
 Δ = 5° 04' 07"
 R = 4° 32' 03.5"
 T = 400.00'
 C = 31.78'
 Lc = 63.24'

ESTIMATED QUANTITIES
 CANE HAUL ROAD
 Exc. 2825.8 ± 833 CY
 Emb. 435 ± 55 CY
 Aggregate 312.8 ± 20 to 512.11 ± 00
 Subbase 330 ± 30
 Roadway Emb. 250 ± 0 CY
 Construct Drainage
 Ditch as shown
 Quantities included
 in Roadway Exc.
 For Typical Section,
 see Sheet No. 14

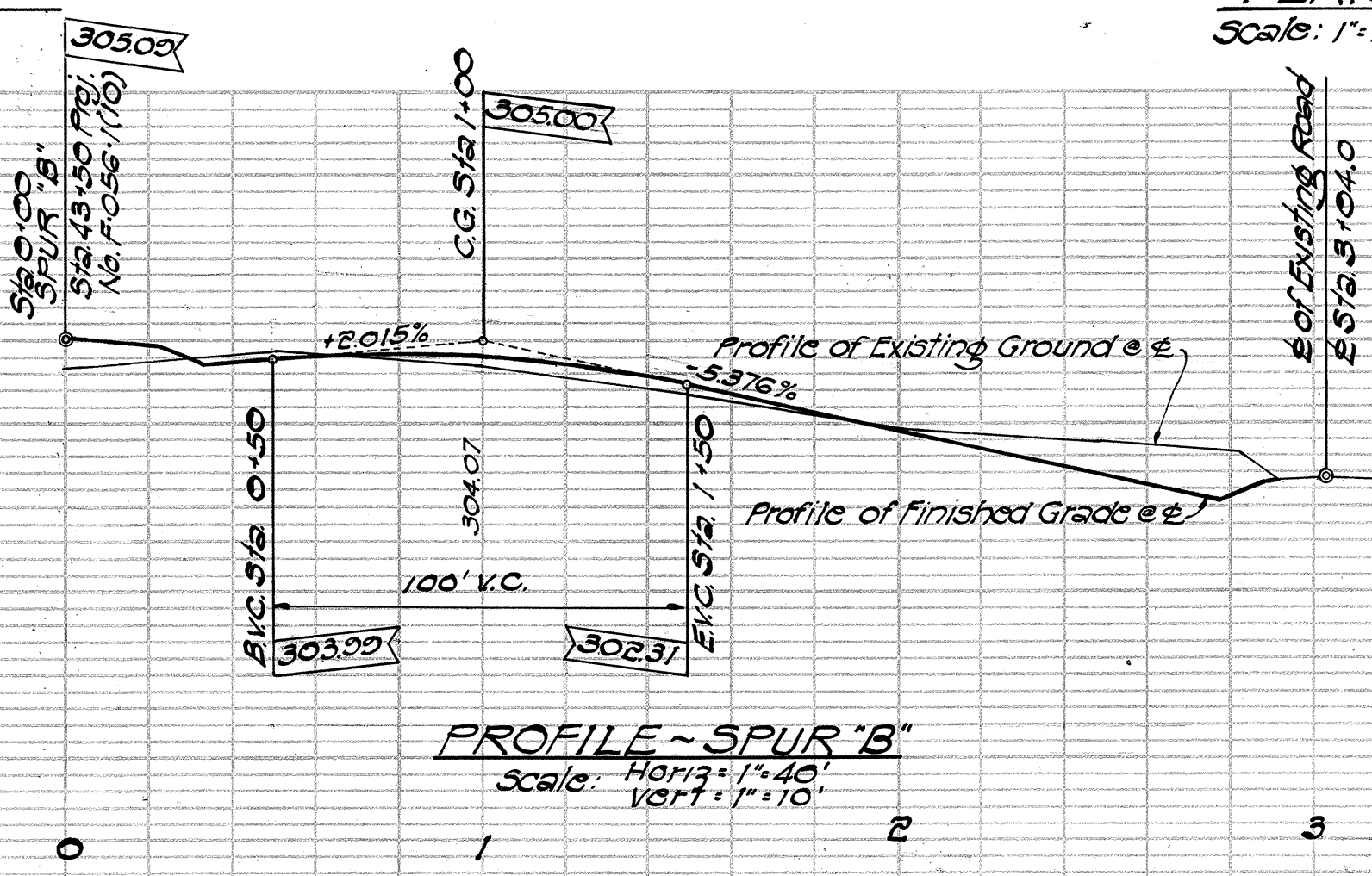
1/2 Cane Haul Road (Rt.)
 Curve Data
 Δ = 20° 41' 56"
 R = 13° 23' 58"
 T = 397.06'
 C = 54.50'
 Lc = 184.03'



PROFILE - CANE HAUL ROAD
 Scale: Horiz. 1" = 100'
 Vert. 1" = 10'



INTERSECTION DETAIL & CURVE DATA
 AT STA 43+50
 Scale: 1" = 40'



PROFILE - SPUR "B"
 Scale: Horiz. 1" = 40'
 Vert. 1" = 10'

PLAN
 Scale: 1" = 100'

CURVE DATA (SPUR "B")
 Δ = 12° 14'
 R = 6° 07'
 T = 600.0'
 C = 64.80'
 Lc = 127.86'

ESTIMATED QUANTITIES
 SPUR "B"
 Exc. 562 CY 997
 Emb. 116 CY 163
 B.C. Area 140.50 yd. 1097
 A.C. Area 102.50 yd. 1103

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RF-056-1(10)	1971	7	74