DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DP-F-051-1(3)	1974	5	61

GENERAL NOTES

1 All azimuths are referred to "Kalepa" △
2 All B.M's are referred to Mean Sea Level Datum.
3 All existing irrigation ditches within the proposed Right-of-Way shall be realigned by the Contractor or by others as noted on the plans.
4 The cost of demolishing, conc. capping and subsequent backfilling as required shall be considered incidental to various contract items of work.
5 ℄ Monuments shall be installed according to R/W Data.
6 Relocation of all existing utilities shall be done by others.
7 The Contractor shall coordinate his work with the Lihue Plantation Co., Ltd. so as not to disrupt the Plantations normal schedule of operations in the vicinity of the Project.
8. During construction of approaches at the termini of this project and at other areas where access by the public is required, the Contractor shall keep at least one lane open to traffic during working hours and both lanes open to traffic during non-working hours.
9 "Brooming-off" and "Bituminous Tack Coat" shall be considered incidental to the item, "Asphalt Concrete Pavement Mix No V."
10 Stakeouts for the placement of raised pavement markers shall be done by the Highways Division.
11 Cut-off walls, 2 feet deep, will be constructed wherever GRP is required. Cut-off walls shall be built at the beginning and end of each structure and as directed by the Engineer.
12 Structural Excavation of GRP Cut-off walls shall be considered incidental to the GRP.

Sta. 0+99 % 84' Rt.
Sta. 1+52 % 58' Rt.
Sta. 4+~~10~~ 12 % 65' Rt.
Sta. 4+52 % 50' Rt.
Sta. 5+68 % 48' Rt.
Construct G.R.P. Erosion Protection. For details see sheet no. 27

~~Sta. 0+51 % 80' Lt. Construct Storm Drain M.H. by modifying existg. C.D.I. Salvage exist'g grating. For details see Sheet No. 23~~

For Intersection Details of Cut-off Road and Rice Street, see Sheet No. 9

Sta. 1+18 % 44' Lt to 1+52 % 58' Rt. Install 2-43"x27" Pipe Arch Culvert, 208 L.F. Construct 1-Type 61616 Grated C.D.I. (Modified), 1 Conc. H.W., G.R.P. Lining, gutter embankment. For details see Sheet No. 24 & 27 Demolish existing C.D.I. and remove existing 30" drainage system at Sta. 1+18 Salvage existing grating

Sta. 4+17 Lt. Construct Approach 40' wide For details and estimated quantities, see Sheets No. 13

Sta. 3+80 to 4+52 % 28' Lt. and Sta. 4+52 Construct Storm Drain System as shown. For Details see Sheet No. 22 Remove existing 24" drainage system at Sta. 4+35. Backfill as required.

Sta. 5+~~68~~ 52 % 48' Rt. to 6+08 % 46' Lt. Install 24" R.C.P. Culvert. Construct Type A SDM.H, 1 Conc. H.W. Std. Conc. Protection for Culvert, G.R.P. Lining. For Details see Sheet No. 27

Sta. 0+07 % 53' Rt. Connect 42" R.C.P. to existg 42" R.C.P. For connection details, see Sheet No. 23

Sta. 0+07 % 53' Rt. to 0+99 % 84' Rt. Install 42" R.C.P. Cl. III. Construct 1 S.D.M.H. (Mod. Type C), 1 Conc. H.W. ~~Extend Blow off Line 25 L.F. and relocate existg. Flap Valve in M.H.~~ For Details see Sheet No. 23 & 27

Sta. ~~1+00~~ 0+99 % 84' Rt. to 5+~~75~~ 52 % 49' Rt. Construct Main Ditch as shown. For Typical Ditch Section see Sheet No. 25

Sta. 3+~~80~~ 85 % 153' Rt. to 6+00 % 50' Rt. Construct Field Road connection 12' wide. For details and estimated quantities, see Sheet No. 13

Sta. 4+~~10~~ 12 % 106' Rt. to 4+~~12~~ 14 % 68' Rt. Install 60" R.C.P. Culvert, 38 L.F., Grooved end entrance. Construct 2 Conc. H.W. and GRP Lining

Sta. 6+00 Rt. Construct Approach 22' wide. For details and estimated quantities, see Sheets No. 14

Sta. 0+05 % 3' Rt.
Sta. 3+60 % 7' Rt.
Sta. 5+26 % 36' Rt.
Adjust existing sewer manhole Frame & Cover to required elevation as directed by the Engineer.

Irrigation ditch to be constructed by L.P. Co. (2.5'×2') (N.I.C.)

B.M. = ℄ Mon. Oihana St. & Halau St. Elev. = 151.63

~~Sta. 36+00 to 37+36 Rt (F-12-18) Construct Parking Apron 12' wide as shown w/15½" Agg. Subbase Course, 6" Agg. Base Course and 2½" A.C. Pav't. Mix No. III~~

~~Est. Quant.~~

~~Excavation~~	~~= 140 C.Y.~~
~~Agg. Subbase Course~~	~~= 57 C.Y.~~
~~Agg. Base Course~~	~~= 22 C.Y.~~
~~A.C. Pav't. Mix No. III~~	~~= 17 Tons~~
~~MC-30 Prime Coat~~	~~= 46 Gals.~~
~~Asphalt Cement~~	~~= 1 Ton~~

SHEET NO. 1 OF 4 SHTS.

DD-A-5-5

5

DIST. NO.	STATE	FED. AID. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DP-F-051-1(3)	1974	6	61

℄ CURVE DATA
Δ = 21°27'
Δ/2 = 10°43'30"
R = 2010.00'
T = 380.70'
C = 748.10'
Lc = 752.49'
S.E. = 0.076'/Ft.

Sta. 11+58 ⅝ 48' Lt.
Remove upper section of existg. S.M.H. wall. Reconstruct S.M.H. to new Pavement Grade.
For details, see Sheet No. 23

Sta. 15+~~63~~ 76 ⅝ 53' Lt. to 16+~~30~~ 34 ⅝ 43' Lt.
Install 24" Culvert. Construct 2-Conc. H.W.

Sta. 14+75 ± Lt. to Sta. 16+75 ± Lt.
Install Metal Guard Rail w/Metal Posts
For Details, see Sheet No. 46-49
Est. Quantities
Guard Rail ~~200~~ 201.1 L.F.

Sta. 25+~~43~~ 42.09 Lt.
Construct Approach 28' wide.
For details and estimated quantities, see Sheets No. 13

Sta. 11+~~66~~ 59.02 Lt.
Construct Approach 32' wide.
For details see Sheet No. 13

Sta. 15+92 ±
Construct 12'×5' Conc. Box Culvert. For Details see Sht. No. 30 & 31

Drainage Ditch & Replacement Flume to be constructed by L.P. Co.
(N. I. C.)

Sta. 17+22 ⅝ 118' Rt. to 17+80 ⅝ 129' Rt.
Install 24" Culvert under Realigned Field Road. Construct Drainage Ditch and Swale. For details see Sht. No. 14.

B.M. = "+" on conc. slab. Elev. = 157.72

Sta. 17+50 ⅝ 225' Rt. to 24+00 ⅝ 65' Rt.
Realign existg. Plantation Field Road. For details and estimated quantities, see Sheets No. 14

Sta. 17+53 ⅝ 75' Rt. to 18+05 ⅝ 88' Rt.
Install 30" Culvert. Construct 2 Conc. H.W., CRM Ditch Lining
For details, see Sht. No. 14

Sta. 18+10 ⅝ 88' to 25+85 ⅝ 90' Rt.
Realign and extend exist'g Plantation Main Ditch ~~and provide GRP Protection for existing Conc. Gate.~~
For details see Sht. No. 26.

Sta. 25+85
Install 30" Culvert. Construct 2-way Inlet C.D.I., Conc. H.W., GRP as shown.
For details see Sheet No. 26

Sta. 22+95 ⅝ 42' Rt.
Remove existg. 24" drainage system and backfill as required.

SHEET NO. 2 OF 4 SHTS.

DIST. NO.	STATE	FED. AID. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DP-F-051-1(3)	1974	7	61

℄ CURVE DATA
Δ = 8°05'30"
Δ/2 = 4°02'45"
R = 6000.00'
T = 424.38'
C = 846.65'
Lc = 847.36'
S.E. = 0.031'/Ft.

Sta. 25+87% 55' Lt. to 30+30% 60' Lt.
Trap Ditch 2' wide to be constructed by L.P.Co. as shown. For Typical Ditch Section, see Sheet No. 25

Sta. 29+55 Rt & 29+75 Rt.
Remove existing Drainage System and backfill as required.

Sta. 30+40 to 36+53 % 60' Lt.
Trap Ditch 2' wide to be constructed by L.P.Co. as shown. For Typical Ditch Section, see Sheet No. 25

Sta. 30+50 to 36+60 % 54' Lt.
Construct earth Berm as shown. For details, see Sheet No. 25
Est. Quant.
Emb. 440.0 C.Y.

Sta. 36+~~54~~ 36 to ~~37+15~~ 36+92 % 60' Lt.
Install 30" R.C.P. Culvert, grooved end entrance. Construct 2 Conc. H.W..

Sta. 37+20 % 93' Lt. to 38+00 % 60 Lt.
Realign exist'g. Main Ditch as shown. Provide G.R.P. Ditch Side Protection, 30' long as shown. For details, see Sheets No. 27

Sta. 28+50 Rt. to 35+80 Rt.
Realign exist'g. Plantation Field Road. For details and estimated quantities, see Sheets No. 14

Sta. 29+50 Rt. to 35+90 Rt.
Realign exist'g. Plantation Main Ditch. For details, See Sheet No. 14 & 25

Sta. 36+~~63~~ 61 Lt. & Rt.
Construct Approaches 30' wide as shown. For details and estimated quantities, see Sheets No. 14

Sta 29+53 % 40' Rt.
Sta. 36+85 % 43' Rt.
Remove section of exist'g. 18" Culv't. within Road R/W. Concrete cap remaining section at R/W. Backfill as required.

Sta. 36+~~63~~ 61
Construct Conc. Tractor Crossing 12' wide × ~~60'~~ 105'
Est. Quant.
Conc. Pavement ~~17.7~~ 31.6' C.Y.
For details, see Sheet No. 14
Wire mesh reinforcing shall be considered incidental to the Conc. Pavement.
Portland Cement 178.0 CWT

Sta. 38+00
Install battery of 2-58"×36" Pipe Arch Culvert. Construct 2 Conc. H.W., C.R.M. Wall & G.R.P. Ditch Protection. For Conc. H.W. and Ditch Protection Details, see Sheets No. 24 & 27.

Sta. 37+50 to 38+50 % 70' Rt.
Raise Cane Haul Road (cross hatched) with Base Course to provide adequate cover over culvert.
Est. Quant.
Aggregate Base Course 17 C.Y.

B.M. = "+" on C.R.M. Wall. Elev. = 169.31

SHEET NO. 3 OF 4 SHTS.

DIST. NO.	STATE	FED. AID. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DP-F-051-1(3)	1974	8	61

℄ CURVE DATA
Δ = 11°48'30"
Δ/2 = 5°54'15"
R = 6000.00'
T = 620.48'
C = 1234.38'
Lc = 1236.57'

Sta. 46+60 Lt.
Construct Approach 22' wide as shown. For details and estimated quantities, see Sheets No. 14

Sta. 38+05 to 46+35 O/S 59' Lt.
Trap Ditch 2.5' wide to be constructed by L.P.Co. as shown. For Typical Ditch Section, see Sheet No. 25

Sta. 47+40 O/S 59' Lt. to 55+47 O/S 166' Lt.
Trap Ditch 2' wide to be constructed by L.P.Co. as shown. For Typical Ditch Section, see Sheet No. 25

Sta. 55+18± (Ahukini Rd)
Install 36" and 24" Culverts.
Construct 1 Conc. H.W., 1 Type 61616 Grated Drop Intake, 1 Type "B" CD1, Gutter Type 2(6161-12).
Restore Ahukini Rd. Pav't. Structure with 12" Agg. S.B., 6" Agg. Base, 2" A.C. Mix III, 1" A.C. Mix V. For Conc. Gutter Detail see Sheet No. 25

Sta. 46+77.5±
Install 42" Conc. Siphon Pipe
Construct 1 Type "A" Conc. Inlet 1 Type "A" Conc. Outlet, C.R.M. Ditch and Wall Lining.
For details see Sheet No. 28 & 29

Ahukini Road Sta. 56+30 to Sta. 58+00 Lt.±
Install 36-Inch Culvert and construct a Drainage Ditch. Construct 2 Concrete Head Wall, 1 Conc. Turnaround and CRM Wall as shown.

For Intersection Details of Cut-off Road and Ahukini Road, see Sheet No. 10

Sta. 57+40± Rt. (Ahukini Rd.)
Remove exist'g. Drain System. Backfill as required.

Cane Haul Road to be constructed by others (N.I.C.)

B.M. = "+" on conc. Headwall Outlet. Elev. = ~~166.80~~ 176.03

SHEET NO. 4 OF 4 SHTS.

PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
R/T. OF WAY CHECKED
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.S NOTED
STRUCTURE NOTATIONS NOTED
BY
DATE