

DRAINAGE SUMMARY

PROJECT: KAMEHAMEHA HIGHWAY INTERSECTION IMPROVEMENTS
Leilehua Golf Course Road

PROJECT NO. : DE-0200(803)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	DE-0200(803)	2000	12	79

ITEM NO.		206. 2020	603. 0010	603. 1008	603. 1010	603. 5100	604. 5104	604. 5105	604. 5110	604. 5115	604. 5120	604. 5124	604. 5135	604. 5250	604. 5255	604. 5264	604. 5265	604. 5270	604. 5280
UNIT USED		C.Y.	C.Y.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	L.F.
KAMEHAMEHA HWY. # STA. (From)	KAMEHAMEHA HWY. # STA. (To)	Structure Excavation for Drainage System	Bed Course Material for Culvert	18-Inch RCP Class III, or 18-Inch HDPP, Type S, or 18-Inch ASRP, "t"= 0.105 Inch	24-Inch RCP Class III, or 24-Inch HDPP, Type S, or 24-Inch ASRP, "t"= 0.105 Inch	29"x18" Corrugated Aluminum Pipe Arch, t=0.105"	Type "A" Storm Drain Manhole, 4.00 feet to 4.99 feet	Type "A" Storm Drain Manhole, 5.00 feet to 5.99 feet	Special Type "C" Storm Drain Manhole, 1.00 feet to 1.99 feet	Modified Type "C" Storm Drain Manhole, 5.00 feet to 5.99 feet	Type "B" Catch Basin, 4.00 ft. to 4.99 ft.	Type "C" Catch Basin, 4.00 ft. to 4.99 ft.	Type "C-1" Catch Basin, 5.00 feet to 5.99 feet	Type "51516P" Grated Drop Inlet, 4.00 ft. to 4.99 ft.	Type "61616P" Grated Drop Inlet 4.00 feet to 4.99 feet	Type "A-9P" Grated Drop Inlet, 4.00 ft. to 4.99 ft.	Type "A-9P" Grated Drop Inlet, 5.00 ft. to 5.99 ft.	Modified Type "A-9P" Grated Drop Inlet, 3.00 feet to 3.99 feet	Special Type "A-9P" Grated Drop Inlet, 8.00 feet to 8.99 feet
32+11± o/s 33'± Lt.	33+75 Lt.	189	32		157					1									
33+75 Lt.	35+75 Lt.	217	39		196											1	1		
32+72± Rt.	34+00 Rt.	124	25		124						1								
34+00 Rt.	35+58 Rt.	154	31		153											1	1		
37+77± o/s 49± Lt.	37+84± Lt.	4	1		6			1					1						
37+77± o/s 49± Lt.	39+00 o/s 45' Lt.	120	24		120									1					
39+00 o/s 45' Lt.	39+00 Lt.	2	1	5														1	
Leilehua Golf Crse. Rd. 14+22 Lt.	Leilehua Golf Crse. Rd. 14+28± Rt.	43	12			59					1								
Leilehua Golf Crse. Rd. 14+28± Rt.	38+35± Rt.	11	3			18						1				1			
40+81± o/s 45' Lt.	40+81± Lt.	2	1	5										1					
40+81± Lt.	40+81± Lt.	35	6		32				1										
40+81± Lt.	42+20 Lt.	137	27		136											2			
40+81± Lt.	40+81± o/s 45' Rt.	83	8		42														
40+81± o/s 45' Rt.	42+50 o/s 46'± Rt.	199	33		165														1
42+50 o/s 46'± Rt.	43+40 o/s 46'± Rt.	85	17		85		1							1					
42+50 Rt.	42+50 o/s 46'± Rt.	3	1	6														1	
TOTAL		1,408	261	16	1,216	77	1	1	1	1	2	1	1	2	1	5	2	2	1

DRAINAGE NOTES:

- Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to the various Contract Items.
- The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at no additional cost to the state.
- For Culvert Trench and Pavement Restoration Details, see sht. no. H14.
- Demolishing, removing, and disposing existing drainage structures at Leilehua Golf Course Road # Sta. 38+35± Rt. and Kamehameha Hwy. # Sta. 32+72± Rt., # Sta. 37+77± Lt., and # Sta. 37+84± Lt. shall not be paid for separately, but considered incidental to the various contract items.
- For added reinforcing around existing and new culverts, see Standard Plan H-04.
- For Type "P", "B", and "A" Cast Iron Frames and Covers and Manhole Rung details, see Standard Plan H-08.
- Concrete shall be Class A unless otherwise noted.
- Chamfer all exposed concrete edges 1".

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	5/19/00
013/000000	TRACED BY	
013/000000	CHECKED BY	
013/000000		
013/000000		
013/000000		
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013/000000		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE SUMMARY
KAMEHAMEHA HIGHWAY
INTERSECTION IMPROVEMENTS AT
LEILEHUA GOLF COURSE ROAD
Fed. Aid Proj. No. DE-0200(803)

Scale: As Shown Date: May, 2000

SHEET No. H1 OF 14 SHEETS