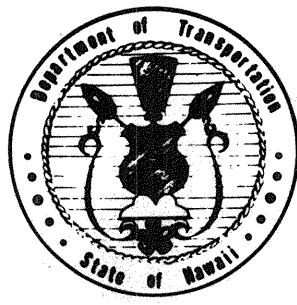


INDEX TO DRAWINGS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	NOTES
3	RECONSTRUCTION AND RELOCATION PLAN
4	WATER MAIN RELOCATION PROFILE AND MISCELLANEOUS DETAILS
5	DRAINAGE PLAN
6	DRAINAGE DETAILS
7 - 12	13'-10" x 5'-5" ALUMINUM BOX CULVERT AT STA. 448+12.33
13	CULVERT CROSS-SECTION
14	CONSTRUCTION PHASING PLAN
15 - 28	STANDARD DETAILS

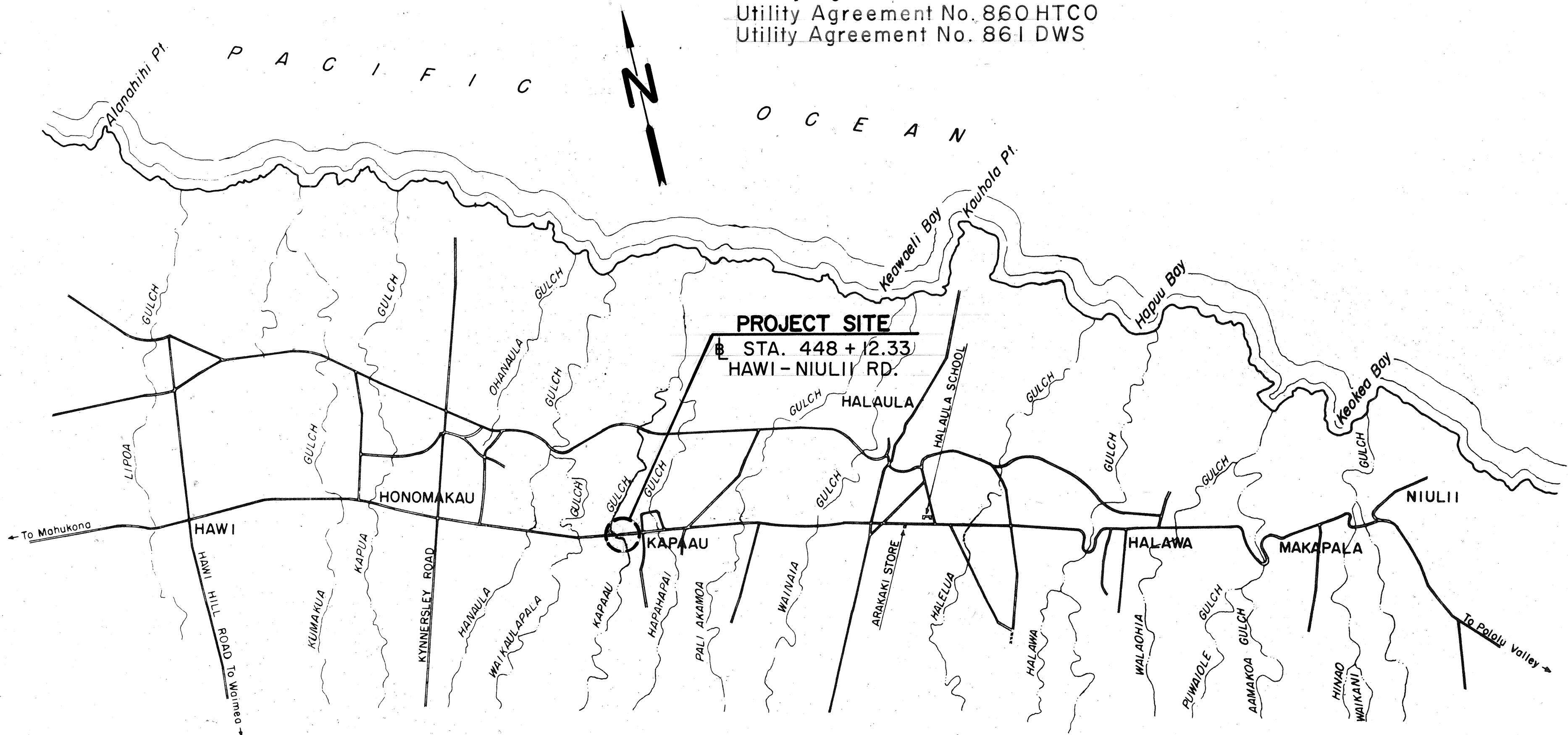


STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
HONOLULU, HAWAII

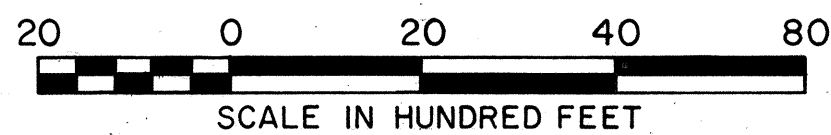
" AS BUILT "  
PLANS FOR  
HAWI - NIULII ROAD  
DRAINAGE IMPROVEMENTS  
VICINITY OF KAPAAU TOWN

FEDERAL AID SECONDARY PROJ. NO. RS-0270(10)  
DISTRICT OF NORTH KOHALA  
ISLAND OF HAWAII

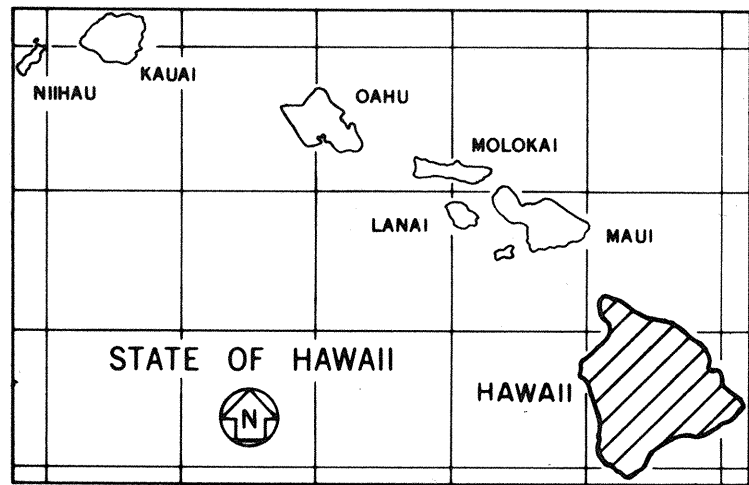
Contractor: Nagai Inc.  
Contract No: 17983  
Utility Agreement No. 859 HELCO  
Utility Agreement No. 860 HTCO  
Utility Agreement No. 861 DWS



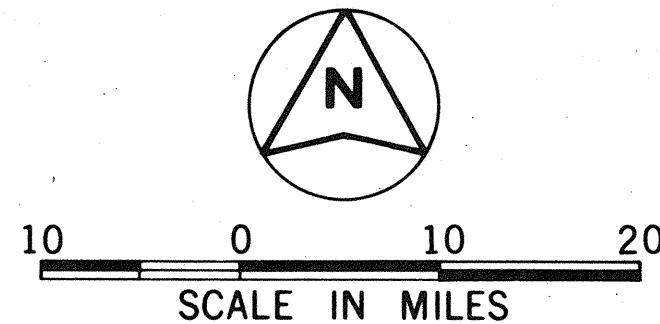
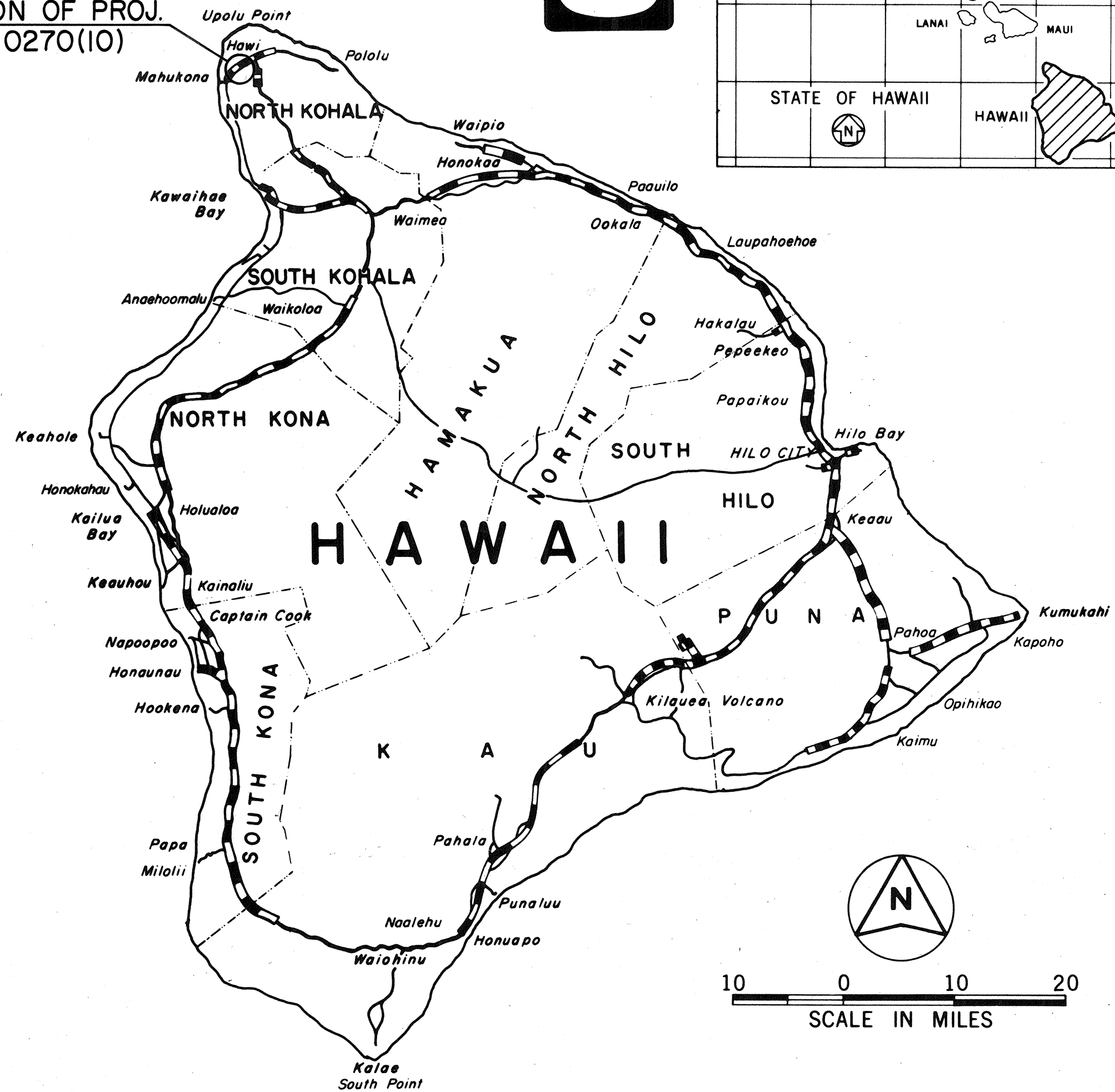
LAYOUT PLAN



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0270(10)	1985	1	28



LOCATION OF PROJ.  
NO. RS-0270(10)



FEDERAL AID PROJECTS PREVIOUSLY CONSTRUCTED  
OR UNDER CONSTRUCTION

DESIGN DESIGNATION

CURRENT ADT (1984)	3,320
DESIGN ADT (1994)	3,700
DHV	410
D	60/40
T	11.5%
V	55 MPH

CHANGES MADE DURING CONSTRUCTION HAVE BEEN INCORPORATED ON THESE PLANS EXCEPT CHANGES IN THE ORIGINAL THEORETICAL QUANTITIES. FOR ACTUAL QUANTITIES, REFER TO PROJECT LEDGER AND/OR COMPUTATION BOOK.

RESIDENT ENGINEER  
DATE 3-14-86

DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII  
APPROVED:  
DIR. OF TRANSPORTATION  
DATE 2/17/84