

HORIZONTAL CONTROL DATA

by the
 National Ocean Survey
 OLD HAWAIIAN DATUM

QUAD 221602 STATION 1002
 HAWAII
 LATITUDE 22° 00' TO 22° 30'
 LONGITUDE 160° 00' TO 160° 30'
 DIAGRAM NF 4-6 KAUAI

Lehua (Niihau Island, C. L. Garner, 1926).—On the highest point of Lehua Island, the small island close to and northwest of Niihau Island. Marked by a standard brass disk cemented into a 1½-inch pipe securely driven into ground. Two standard reference marks were set. No. 1, 14.180 meters (46.52 feet), from station in azimuth 92°, magnetic; No. 2, 21.555 meters (70.72 feet), in azimuth 283°, magnetic.

LEHUA (Kauai County) Hawaii, C.L.G., 1926; J.H.P., 1931

--Station is O.K. except that the station mark has been surrounded with a concrete block, 12- by 12- by 18-in. (high). A wooden skeleton tower, painted white, supporting a flashing white gas light, flash 1 sec. duration every 10 sec., bears 96°57' at a distance of 20.84 ft. from the station mark. The elevation of the top of the tower is 5.812 ft. above the brass disk of the station. Another reference mark, consisting of a galvanized nail set in concrete, was placed on a bearing 276°31' at a distance of 584.4 ft. from the station. This base was used in making a survey of the surrounding area for construction purposes.

RECOVERY NOTE, TRIANGULATION STATION

NAME OF STATION: LEHUA
 ESTABLISHED BY: C.L.G. YEAR: 1926 STATE: Hawaii BENCH MARK(S) ALSO
 RECOVERED BY: F.M.R. (U.S.N.) YEAR: 1972 COUNTY: Kauai
 AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN: On the highest point of Lehua Island.

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Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

Reference mark 2 was recovered and found to be in good condition. The station mark and reference mark 1 were found destroyed. There is presently a Coast Guard beacon located very near the same place that the station was.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: LEHUA
 STATE: HAWAII YEAR: 1926 SECOND -ORDER
 SOURCE: G-SP156

GEODETIC LATITUDE: 22° 01' 19.592	ELEVATION: 214 METERS
GEODETIC LONGITUDE: 160 06 03.722	SCALED FEET

STATE COORDINATES (Fvvi)				
STATE & ZONE	CODE	X	Y	θ IOR Δ θ' ANGLE °
HI 5	5105	522,232.37	129,123.82	+ 0° 01' 29"

* PLANE AZIMUTH HAS BEEN COMPUTED BY THE θ IOR Δ θ' FORMULA NEGLECTING THE SECOND TERM.

TO STATION OR OBJECT	GEODETIC AZIMUTH (From south)	PLANE AZIMUTH (From south)	CODE