

Department of Transportation Services

Tantalus Drive and Round Top Drive Right of Way Assessment Project

## BOUNDARY STUDY REPORT



ControlPoint Surveying, Inc.
1150 South King Street, Suite 1200
Honolulu, Hawaii 96814
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## TABLE OF CONTENTS

## SECTION

## PAGE



3. Analysis of Field and Record Data

4 to 15

## APPENDICES

A. NGS Data Sheet - "Punchbowl Reset"
B. NGS Data Sheet - "H 2"
C. Adjusted Traverse Coordinate List
D. Traverse Map
E. Status Report - TMK: 2-5-12: 03
F. Status Report - TMK: 2-5-13: 01
G. Memorandum of field survey - TMK: 2-5-13: 01
H. Act 131: Part II. Structure Position Discrepancies

## SECTION 1

## SCOPE OF WORK

The project scope of work is a study of a corridor along Tantalus Drive and Round Top Drive in which to establish a road right-of-way. This study includes installation of a control network, a topographic survey of an approximately 75 feet wide corridor centered on the existing A.C. road pavement, and a boundary study of the properties adjacent to the roadway.

Tantalus and Round Top Drives were built on public lands between 1892 and 1917 by the government. Legislation in the 1890's allowed citizens to acquire residential property on Tantalus and in 1891 H.W. Schmidt received a Royal Patent (Grant 3535) for 21 acres of land on Tantalus. His deed contained a $40-\mathrm{ft}$. right-of-way provision for a public road and what started as a path from Punchbowl for workers carrying building material became a carriage road, Tantalus Drive, completed in 1901 to 1902.

Construction of Round Top Drive to connect to Tantalus Drive began at Makiki Heights in 1913 and was completed in 1917. The Tantalus - Round Top Road was first paved in 1937. The only substantial improvement since was in 1953-54 when low curbside retaining walls and roadside drainage culverts were built.

In 1957 the Tantalus - Round Top area was zoned as a Conservation District with conditional residential use. The ownership of the road remained with the State of Hawaii until 1993, when title was transferred to the City and County of Honolulu in name and tax map only, since a metes and bounds survey did not exist.

Presently, Tantalus has about 200 homes on lands that were mostly acquired as Grants of large parcels to prominent land owners that were later subdivided and sold. The boundary study of these lands began with the research of record boundaries and retracement ties provided by original and previous surveys and descriptions. This information was interpreted and compiled into record property lines and then translated into coordinates for the field investigation.

A field survey was then performed to locate existing monuments, property corners and evidence of occupation such as walls or fences. The property pins found ranged from less than a foot to as much as 13 feet different from the record information. The field measurements were reduced and compared to the record. Monuments called for and found in a retracement of original surveys, were held for the local boundaries whenever possible.

Much of Tantalus - Round Top Road was improved with a A.C. pavement overlay shortly after the initial field survey, which destroyed many of the control stations that had been set. In the years that followed, intermediate control stations were installed between the remaining control stations in an attempt to restore the control network. However, subsequent control surveys indicated that the remaining control stations may have been disturbed or have not been stable over time. It became apparent that in order to reestablish the control network, all of the controls would need to be surveyed again. The effort to reestablish the control network was stopped in December of 2014.

## SECTION 2

## FIELD SURVEY

The control survey began and ended at Government Survey Triangulation Station "PUNCHBOWL RESET" holding directions from the same. Over (170) control stations were set at line-of-sight intervals along Tantalus Drive and Round Top Drive. To establish permanent marks, (24) of the stations set were brass disks in concrete. The observed traverse network was adjusted by compass rule. Copies of the final control station coordinate list referred to "PUNCHBOWL RESET", and a traverse map are included in the appendices.

A differential level run was also performed on the control stations to establish elevations for the topographic survey of the $75-\mathrm{ft}$. wide A.C. roadway corridor. All elevations are referred to Bench Mark "H 2" a Coast \& Geodetic Survey disk set in the top of a concrete post on the grounds of the Central Union Church near the corner of the intersection of South Beretania Street and Punahou Street, Elevation $=31.53$ feet, Mean Sea Level.

The adjusted traverse network was used to recover and locate existing monuments and boundary corners. These located points were compared with their compiled record position. Monuments and boundary corners recovered from a retracement of the original surveys were held for the local boundaries whenever possible and are presented in the exhibits of the next section.

Further field surveys were conducted in the following years in an attempt to reestablish the control network that had been largely destroyed by pavement overlay and other maintenance activities. Field crews began installing replacement control points and surveying between the new and previous points. Measurements indicated some of the remaining controls were not stable and the entire control network would need to be surveyed again in order to establish a new control network. The effort to reestablish a control network and the field surveys stopped at the end of 2014.

## SECTION 3

## ANALYSIS OF FIELD AND RECORDED DATA

The Tantalus-Round Top road right-of-way assessment project is about 9 miles long and begins about half way up the Kewalo Residence Lots along Tantalus Drive. The road climbs along Kalawahine Ridge between Pauoa and Makiki Valleys and then descends along Round Top Drive on the ridge linking Puu Ohia (Mount Tantalus), Puu Kakea (Sugarloaf) and Puu Ualakaa (Round Top); then past the recent landslide area to the end of the Maunalaha Homesites.

Many of the subdivisions that exist along the road are not contiguous and stand alone.
Therefore an analysis of the boundaries of these subdivisions should be treated separately and are presented as such in the following exhibits:

## EXHIBIT A-1 - KEY MAP

This exhibit shows a key map of the exhibits on an overall view of the Tantalus-Round Top road and the surrounding areas. The project road is shown in red. Also shown are the primary control stations for the boundaries within the project area.


## EXHIBIT A - KEWALO RESIDENCE LOTS

TMK: 2-5-22 \& 2-4-39 Kewalo Residence Lots
Exhibit A shows Tantalus Drive through the northeastern portion of the Kewalo Residence Lots, the record boundaries of which are from Plat 22.4-H.H.dated Sept.-Dec. 1939.

A City and County Street Survey Monument at the point of curvature was found and adopted. A nearby street monument checked to 0.05 ' of record location and the property pins found in this subdivision are about 1 to 4 inches from their record location.


## EXHIBIT B - MAKIKI FOREST RIDGE LOTS

TMK: 2-5-23 Makiki Forest Ridge Lots
TMK: 2-4-34 Kalawahine Slope Lots
TMK: 2-4-35 \& 2-5-09
Makiki Heights Lots
Exhibit B shows Tantalus Drive through CSF No. 18,853 on the northeast and File Plan 2253 Kalawahine Streamside Subdivision dated July 22, 1999 on the southwest, then the Makiki Forest Ridge Lots, the boundaries of which are from HTS Plat 2112-B dated September 1950.

Tantalus Drive is also adjacent to the Kalawahine Slope Lots and the Makiki Heights Lots the boundaries of which have been compiled from written descriptions.

A City and County Street Survey Monument along Aaliamanu Place was found and adopted. A nearby street monument checked to 0.05 ' of record location and the property pins found in these subdivisions are about 1 to 6 inches from their record location.


## EXHIBIT C - LAND COURT APPLICATION 1375

TMK: 2-5-11 Land Court Application 1375
TMK: 2-5-12 Land Court Application 1106
Exhibit C shows Tantalus Drive through the Land Court Application 1375 and Land Court Application 1106 areas.
"NAHUINA" a 2-1/2" pipe in concrete as shown on Map 1 of Land Court Application 1375 dated June 12, 1942, was found and adopted for the two land courts.

The boundary pins found varied from 1 inch to 1 foot from their record locations.


## EXHIBIT D - PORTION TMK: 2-5-12

TMK: 2-5-12 Grants 4424, 4426 \& 4589. CSF No. 12,222.
Exhibit D shows Tantalus Drive through a portion of TMK: 2-5-12
A 3/4" pipe was found on the property corner of TMK: 2-5-12: 13 and adopted for the Grants in this area. A check to the tie with "Nahuina" is with about 3 " off the record. The other boundary pins found in these Grants were about 2 to 3 inches from their record locations.

A 1" pipe was found and adopted for TMK: 2-5-12: 03, Grant 4589. The other 1" pipe found on this property is about 3 inches from its record location. A copy of the Status Report for this property is included as Appendix $E$.

No record boundary information was found at either the Bureau of Conveyances or the State Survey Office for TMK: 2-5-12: 04. The parcel is as shown on the tax map.


## EXHIBIT E - TANTALUS RIDGE SUBDIVISION

TMK: 2-5-13 Lots 4, 5, 6, 7, \& 7A
TMK: 2-5-14 Tantalus Ridge Subdivision
Exhibit E shows Tantalus Drive through TMK: 2-5-13 and Round Top Drive through the Tantalus Ridge Subdivision.

The record tie to "TANTALUS" Government Survey Triangulation Station in the description of TMK: 2-5-13: 01 (Grant 4425) was held as there were no boundary pins found for this property. The property owner was contacted and an account of his testimony is in a written memo and attached as Appendix G. Also attached as Appendix F, is the Status Report for this property.

For TMK: 2-5-13: 03, $04 \& 05$ a $3 / 4$ " pipe was found and adopted. Other boundary pins found are about 2 " to 1 foot from their record location.

For TMK: 2-5-13: 02, $06 \& 07$ a $1 / 2$ " pipe was found and adopted. Other boundary pins found are about 2 inches from their record location.
"NAHUINA" a 2-1/2" pipe in concrete as shown on Map 1 of Land Court Application 1375 dated June 12, 1942, was found and adopted for the Tantalus Ridge Subdivision TMK: 2-5-14. The other boundary pins found in this subdivision were from 3 inches to one foot from their record locations, with one pin found 3 feet off.


## EXHIBIT F - SCHMIDT ESTATE SUBDIVISION (FILE PLAN 58)

TMK: 2-5-16 Schmidt Estate Subdivision (File Plan 58)
Exhibit F shows Round Top Drive through TMK: 2-5-16 and a portion of CSF No. 14,045.
Lots on the northern side of this subdivision have been staked on the ground as much as 12 feet off with lots on the southern side vary from 0.5 foot to 6 feet off.

The record boundaries of the entire Schmidt Estate Subdivision are holding a 1-1/2" pipe found and adopted as shown on CSF No. 14,045. There is a difference in the tie we observed from a 2" pipe held from previous CSF No. 12,406 to the 1-1/2" pipe adopted for CSF No. 14,045 as shown on the exhibit. Holding the 2" pipe of CSF No. 12,406 causes a 2 feet 8 inch gap between CSF No. 14,045 and the Schmidt Estate Subdivision.

Since the found boundary pins in this subdivision varied so much, the red hatched patterns on the exhibit show the lots shifted into three groups to match the found pins.


## EXHIBIT G - TANTALUS LOTS

TMK: 2-5-17 Tantalus Heights Lots
TMK: 2-5-18 Tantalus Lots
Exhibit G shows Round Top Drive through CSF No. 14,045, running adjacent to the Tantalus Heights Lots as shown on Registered Map No. 2397 dated May 1907, and then through the Tantalus Lots of TMK: 2-5-18.

The record boundaries of this exhibit have been divided into three areas holding three different boundary pins found.

The first area is from TMK: 2-5-17: 19 extending to the north and is holding the 2" pipe found at the corner of TMK: 2-5-17: 04. The boundary pins recovered in this area are about 1 to 1-1/2 feet different from record.

The next area is from TMK: 2-5-17: 13 to TMK: 2-5-17: 11 and is holding a 1/2" pipe found at the property corner of TMK: 2-5-17: 17.

The last area is from TMK: 2-5-18: 13 to the south and is holding the 1 " pipe found at the corner of TMK: 2-5-18: 21 as shown on Map 1 of Land Court Application 1783. Other boundary pins found in this area are 2 to 3 inches different from record.


## EXHIBIT H - BRASH SUBDIVISION

TMK: 2-5-18 Brash Subdivision ("KAKEA")
TMK: 2-5-19: Por. 03
Parcel 2 Addition to Round Top Forest Reserve
Exhibit H shows Round Top Drive through TMK: 2-5-18, running adjacent to the Brash Subdivision as shown on Map No. 3028 dated April 1992 and a portion of TMK: 2-5-19.

The record boundaries of this exhibit are holding USMR Monument 2 of Parcel 2, found and adopted.

The boundary pins found for the Brash Subdivision are about 2 to 3 inches different from their record location. The pins found for the other lots of TMK: 2-5-18 are from 2 to 7 inches different from their record location.


## EXHIBIT J - PORTION MANOA LOTS

TMK: 2-9-31: Por. 02 Land Court Application 157 Addition to Honolulu Watershed Reserve
TMK: 2-9-18: 01 \& 02
CSF No. 8643
Exhibit J shows Round Top Drive through the lookout area adjacent to and above Manoa.
The record boundaries of this exhibit are holding "Pohakuloio", a +" cut on large rock, found and adopted.

A 2" pipe as shown on Map 1 of Land Court Application 157 was found and is about 3 inches different from its record location.

A 3/4" pipe was found on TMK: 2-9-18: 02 and is about 8 inches different from its record location.


## EXHIBIT K - LAND COURT APPLICATION 1633

TMK: 2-5-05 Land Court Application 1633 ("MAKIKI")
Exhibit K shows Round Top Drive on the south side of Puu Ualakaa (Round Top), running adjacent to and above Land Court Application 1633 and before the recent landslide area.

The record boundaries of this exhibit are holding a 3/4" pipe as shown on Map 3 of Land Court Application 1633, found and adopted.

Other boundary pins found are 4 to 9 inches different from their record locations with one 2 feet off.


## EXHIBIT L - MAUNALAHA HOMESITES

TMK: 2-5-24 Maunalaha Homesites (Registered Map 4157)
Exhibit L shows Round Top Drive running adjacent to the Maunalaha Homesites to the west and below, just after the recent landslide area.

The record boundaries of this exhibit are holding a $3 / 4$ " pipe found on the boundary of Lot 4 .
The few other boundary pins found are 6 inches to 1 foot different from their record locations with one about 3 feet off. A hub set by government survey is about 2 inches from its record location.


## The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.
DATABASE $=$, PROGRAM $=$ datasheet, VERSION $=7.64$
1 National Geodetic Survey, Retrieval Date = NOVEMBER 24, 2008

TU1258 HT_MOD - This is a Height Modernization Survey Station.
TU1258 DESIGNATION - PUNCHBOWL RESET
TU1258 PID - TU1258
TU1258 STATE/COUNTY- HI/HONOLULU
TU1258 USGS QUAD - HONOLULU (1983)
TU1258
TU1258
*CURRENT SURVEY CONTROL
TU1258
TU1258* NAD 83(1993)- $211843.99098(\mathrm{~N}) \quad 1575056.87349(\mathrm{~W}) \quad$ ADJUSTED TU1258* LOCAL TIDAL - 151.75 (meters) 497.9 (feet) GPS OBS TU1258
TU1258 EPOCH DATE - 2006.00
TU1258 X - $-5,505,989.059$ (meters) COMP
TU1258 Y - $-2,241,446.713$ (meters) COMP
TU1258 Z - 2,303,694.790 (meters) COMP
TU1258 LAPLACE CORR- 3.36 (seconds) DEFLEC99
TU1258 ELLIP HEIGHT- 167.963 (meters) (04/16/08) ADJUSTED
TU1258 GEOID HEIGHT-
15.74 (meters)

GEOID03
TU1258 HORZ ORDER - B
TU1258 ELLP ORDER - THIRD CLASS I
TU1258
TU1258. The horizontal coordinates were established by GPS observations
TU1258. and adjusted by the National Geodetic Survey in April 2008.
TU1258. The horizontal coordinates are valid at the epoch date displayed above.
TU1258. The epoch date for horizontal control is a decimal equivalence
TU1258. of Year/Month/Day.
TU1258
TU1258. The orthometric height was determined by GPS observations and a TU1258.high-resolution geoid model using precise GPS observation and TU1258.processing techniques.
TU1258
TU1258. The $X, Y$, and $Z$ were computed from the position and the ellipsoidal ht. TU1258
TU1258. The Laplace correction was computed from DEFLEC99 derived deflections.
TU1258
TU1258.The ellipsoidal height was determined by GPS observations
TU1258. and is referenced to NAD 83.
TU1258
TU1258. The geoid height was determined by GEOID03.
TU1258
Tu1258; North East Units Scale Factor Converg.
TU1258; SPC HI 3 - $16,122.985 \quad 515,652.861$ MT $0.99999303+0 \quad 0317.4$
TU1258;UTM 04 - 2, 357,138.229 619,363.840 MT 0.99977606 +0 2506.0
TU1258
TU1258!
TU1258!SPC

- Elev Factor $x$ Scale Factor $=$ Combined Factor

TU1258!UTM 04
TU1258
TU1258:
TU1258: SPC HI 3
TU1258: UTM 04
TU1258
TU1258

$$
-0.99997360 \times 0.99999303=0.99996663
$$

- 0.99997360 x $0.99977606=0.99974967$


## Primary Azimuth Mark Grid Az

- MOANA HOTEL ELAGSTAFF OLD $14918 \quad 13.3$
- MOANA HOTEL FLAGSTAFF OLD 1485624.7

TU1258|
TU1258
TU1258| TU1341 MOANA HOTEL FLAGSTAFE OLD
TU1258| TU1340 MOANA HOTEL ELAGSTAFE
TU1258| TU1220 HONOLULU ROYAL HAWAIIAN C TWR
TU1258| CJ8963 PUNCHBOWL RM 1
TU1258| TU1230 FORT DE RUSSY FLAGPOLE
TU1258| TU1242 HONOLULU ILIKAI HOTEL CUPOLA
TU1258| TU1273 KEWALO BASIN R RNG LT
TU1258| TU1276 KEWALO BASIN F RNG LT
TU1258| TU1290 HONOLULU NEW INCINERATOR STACK
TU1258| TU1295 PUMPING STATION CHIMNEY
TU1258| TU1300 CREMATORY RED BRICK CHIMNEY
TU1258| TU1313 USE SEAWALL
TU1258| TU1325 RED BEACON 4
TU1258| TU1324 RED BEACON 6
TU1258| TU1308 IMMIGRATION BUILDING FLAGSTAFF
TU1258| TU1353 BLACK BEACON 3
TU1258| TU1317 RED BEACON 8
TU1258| TU1348 BLACK BEACON 5
TU1258| TU1349 HONOLULU HARBOR BEACON 3
TU1258| TU1296 WIRELESS POLE TOP
TU1258| TU1322 BLACK BEACON 7
TU1258| TU1280 HONOLULU JUDICIARY BLDG FS
TU1258| TU1346 SAND ISLAND LIGHT
TU1258। TU1344 FRONT RANGE LIGHTHOUSE
TU1258| TU1316 SAND ISLAND LIGHT
TU1258| TU1311 REAR RANGE LIGHTHOUSE
TU1258| TU1302 HONOLULU HARBOR F RNG LT
TU1258| CJ8964 PUNCHBOWL RM 2
TU1258| TU1342 HACKFIELD BUILDING FLAGSTAFF TU1258| TU1384 KALIHI CHANNEL RED LIGHT 6 TU1258| TU1387 KALIHI CHANNEL GREEN LIGHT 5 TU1258| TU1360 QUARANTINE FLAGSTAFF
TU1258| TU1382 KALIHI CHANNEL RED LIGHT 8
TU1258| TU1385 KALIHI CHANNEL GREEN LIGHT 9 TU1258| CJ8965 PUNCHBOWL RM 3
TU1258| TU1379 KALIHI CHANNEL RED LIGHT 12
TU1258| TU1383 KALIHI CHANNEL F RNG LT
TU1258| TU1381 KALIHI CHANNEL GREEN LIGHT 13 TU1258| TU1377 KALIHI CHANNEL RED LIGHT 16 TU1258| TU1404 STA G HONOLULU AHUA PT ATC TWR TU1258| TU1401 HONOLULU AHUA PT RADAR TOWER TU1258| TU1371 KAIIHI CHANNEL RED LIGHT 20 TU1258| TU1378 KALIHI CHANNEL GREEN LIGHT 17 TU1258| TU1374 KALIHI CHANNEL GREEN LIGHT 19 TU1258| TU1380 KALIHI CHANNEL R RNG LT TU1258| TU1656 EWA MILL OLD STACK TU1258| TU1393 HONOLULU INTL APT CONT TWR BCN TU1258|
TU1258
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Distance
dddmmss.s
APPROX. 4.6 KM 1492130.7 I
APPROX. 4.6 KM 1492120.2
APPROX. 4.4 KM 1512923.8
6.808 METERS 15447

APPROX. 3.8 KM 1553024.4 |
APPROX. 3.3 kM 1602349.7
APPROX. 2.1 KM 2033732.5
APPROX. 2.2 KM 2035832.7
APPROX. 2.4 KM 2122333.7
APPROX. 2.1 KM 2223020.6 |
APPROX. 2.2 KM 2230331.8
APPROX. 2.4 KM 2271655.1
APPROX. 3.1 KM 2283800.1
APPROX. 2.8 KM 2310019.6
APPROX. 2.0 KM 2310950.3
APPROX. 3.1 KM 2312126.4
APPROX. 2.5 KM 2324940.5
APPROX. 2.9 KM 2340611.1
APPROX. 2.9 KM 2340728.8
APPROX. 1.7 KM 2351839.4
APPROX. 2.6 KM 2361350.4
APPROX. 1.3 KM 2362904.8
APPROX. 2.5 KM 2382948.0
APPROX. 2.3 KM 2400820.0
APPROX. 2.3 KM 2411157.7
APPROX. 1.9 KM 2523019.6
APPROX. 1.6 KM 2531504.5
4. 156 METERS 25320

APPROX. 1.6 KM 2532825.1 APPROX. 5.1 KM 2533706.8 APPROX. 5.2 KM 2541811.4 APPROX. 2.9 KM 2563654.5
APPROX. 4.9 KM 2595004.2
APPROX. 5.0 KM 2603125.5
2.110 METERS 26042

APPROX. 4.6 KM 2642822.3
APPROX. 4.8 KM 2654820.7
APPROX. 4.8 KM 2654813.4
APPROX. 4.5 KM 2672201.4
APPROX. 8.0 KM 2684749.7
APPROX. 7.9 KM 2695549.0
APPROX. 4.2 KM 2705241.7
APPROX. 4.6 KM 2712226.0
APPROX. 4.3 KM 2724939.0
APPROX. 4.7 KM 2731220.8
APPROX.19.6 KM 2785445.4
APPROX. 6.5 KM 2801631.4
APPROX.10.3 KM 2825121.0
APPROX. 2.4 KM 2825640.3
APPROX.11.3 KM 2834407.0
APPROX. 2.2 KM 2835639.9
APPROX.16.8 KM 2852142.4 I
APPROX.12.2 KM 2860914.4
APPROX. 7.7 KM 2864052.6 । APPROX.11.8 KM 2912436.1 । APPROX.17.2 KM 2925418.4 । APPROX.12.8 KM 2944317.9 । APPROX.10.8 KM 2962028.6 । APPROX. 18.4 KM 2963026.8 । APPROX. 9.9 KM 2971515.9 । APPROX. 9.0 KM 2981808.8 ।
 TU1258
TU1258. Superseded values are not recommended for survey control.
TU1258. NGS no longer adjusts projects to the OLD HI datum.
TU1258. See file dsdata.txt to determine how the superseded data were derived. TU1258
TU1258_U.S. NATIONAL GRID SPATIAL ADDRESS: 4QFJ1936457138 (NAD 83)
TU1258_MARKER: DD = SURVEY DISK
TU1258-SETTING: $0=$ UNSPECIFIED SETTING
TU1258-STAMPING: PUNCHBOWL 18731928
TU1258-MAGNETIC: $\mathrm{N}=\mathrm{NO}$ MAGNETIC MATERIAL
TU1258_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
TU1258+STABILITY: SURFACE MOTION
TU1258_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
TU1258 ${ }^{\text {S SATELLITE: SATELLITE OBSERVATIONS - October 22, } 2007}$
TU1258
TU1258 HISTORY - Date Condition Report By
TU1258 HISTORY - 1942 MONUMENTED HITS
TU1258 HISTORY - 1943 GOOD CGS
TU1258 HISTORY - 1943 GOOD USE
TU1258 HISTORY - 1955 GOOD CGS
TU1258 HISTORY - 1963 GOOD CGS
TU1258 HISTORY - 1969 GOOD CGS
TU1258 HISTORY - 1970 GOOD NGS
TU1258 HISTORY - 1973 GOOD NGS
TU1258 HISTORY - 20040710 GOOD HIDT
TU1258 HISTORY - 20071022 GOOD HIDT
TU1258 STATION DESCRIPTION
TU1258
TU1258'DESCRIBED BY HAWAII TERRITORIAL SURVEY 1942
TU1258'WITH REFERENCE TO THE REPORT OF FEBRUARY 18, 1942 ON RECOVERY
TU1258'NOTE OF 1928-29, THE U.S. ENGINEERS WERE DIRECTED TO REESTABLISH
TU1258'AND RE-MARK THIS STATION. ON FEBRUARY 25, 1942, T.J.K. EVANS OF
TU1258'THE TERRITORIAL SURVEY DEPARTMENT SUPERVISED THE RE-MARKING OF
TU1258'THIS STATION WITH A TYPE B MARKER, AS SHOWN BELOW.
TU1258'
TU1258'THE REFERENCE MARKS GIVEN IN 1928-29 RECOVERY WERE FOUND AND TU1258'ARE STILL IN EXISTENCE, NAMELY--NO. 1, THE BENCH MARK SET BY THE TU1258'U.S. GEOLOGICAL SURVEY 22.67 FEET FROM STATION IN AZIMUTH 333 DEG TU1258'58 MIN AND NO. 2, A STANDARD REFERENCE-MARK DISK 13.62 FEET FROM TU1258'STATION IN AZIMUTH 73 DEG 10 MIN.
TU1258'
TU1258'MR. EVANS OCCUPIED PUNCHBOWL EAST STATION AND OBSERVED ON THE TU1258'RECOVERED STATION IN AZIMUTH 85 DEG 14 MIN 39.9 SEC 2038.4 TU1258'FEET AND ALSO TRANSFERRED AN ELEVATION FROM SAID PUNCHBOWL EAST TU1258' (HAVING AN ALTITUDE OF 435.73 EEET AT THE TOP OF PIPE) FROM SAID TU1258'STATION TO THE BRONZE DISK MARKING PUNCHBOWL BY VERTICAL ANGLES.

TU1258'
TU1258'THE ELEVATION OF THE BRONZE DISK MARKING STATION IS 497. 23 FEET TU1258'AND OF R.M. 1496.50 EEET, WHICH ELEVATION WAS ALSO DETERMINED TU1258'BY VERTICAL ANGLES FROM STATION.
TU1258
TU1258
STATION RECOVERY (1943)
TU1258
TU1258'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1943 (RDH)
TU1258'NEW CONSTRUCTION NECESSITATED REMOVAL OF THE ORIGINAL R.M. 1 AND TU1258'IT WAS REINSTALLED BY THE U.S.E. IN ACCORDANCE WITH THE FOLLOWING
TU1258'NOTE--R.M. 1 IS A STANDARD U.S.C. AND G.S. DISK SET IN ROOF OF TU1258'CONCRETE BUILDING, 6.809 METERS (22.34 FEET) FROM STATION IN TU1258'AZIMUTH 334 DEG 42 MIN.
TU1258'
TU1258'THE STATION MARK AND R.M. 2 WERE UNDISTURBED AND ARE IN TU1258'AGREEMENT WITH THE OLD DESCRIPTION.
TU1258'
TUI258'STATION IS REACHED FROM HONOLULU BY GOING NE ON QUEEN EMMA TU1258'STREET TO LUSITANA STREET TO PUOWAINA DRIVE, CONTINUING ON TU1258'PUOWAINA DRIVE TO THE S RIM OF PUNCHBOWL CRATER. THE STATION IS TU1258'ON THE HIGHEST POINT OF THE CRATER RIM. TU1258'
TU1258'THE NEW R.M. 1 WAS RESET BY GORDON E. EORREST, SURVEY SECTION, TU1258'U.S. ENGINEERS.
TU1258
TU1258 STATION RECOVERY (1943)
TU1258
TU1258'RECOVERY NOTE BY US ENGINEERS 1943
TU1258'R.M. 1 IS A STANDARD U.S.C. AND G.S. DISK SET IN ROOF OF CONCRETE TU1258'BUILDING, 6.809 METERS (22.34 EEET) EROM STATION IN AZIMUTH TU1258'334 DEG 42 MIN.
TU1258'
TU1258'STATION IS REACHED FROM HONOLULU BY GOING NE ON QUEEN EMMA TU1258'STREET TO LUSITANA STREET TO PUOWAINA DRIVE, CONTINUING ON TU1258'PUOWAINA DRIVE TO THE S RIM OF PUNCHBOWL CRATER. THE STATION IS TU1258'ON THE HIGHEST POINT OF THE CRATER RIM. TU1258
TU1258 STATION RECOVERY (1955)
TU1258
TU1258'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1955 (HOF)
TU1258'THE STATION MARK WAS RECOVERED IN GOOD CONDITION AS PREVIOUSLY TU1258'DESCRIBED IN 1942 AND 1943. A STEEL, RED AND WHITE TARGET, OF TU1258'THE CROSS BANNER TYPE USED BY THE C AND GS, HAS BEEN ERECTED OVER TU1258'THE MARK BY HAWAIIAN TERRITORIAL SURVEY DEPARTMENT. THE REFERENCE TU1258'MARKS WERE NOT SEARCHED FOR.
TU1258
TU1258 STATION RECOVERY (1963)
TU1258
TU1258'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1963 (WRP)
TU1258'STATION MARK AND REFERENCE MARK NUMBER ONE WERE RECOVERED IN TU1258'GOOD CONDITION. REFERENCE MARK NUMBER TWO WAS FOUND IN POOR TU1258' CONDITION. IT WAS COVERED WITH DIRT AND VEGETATION, WHICH HAS TU1258'CAUSED THE ROCK TO ERODE UNTIL THE DISK EXTENDS 1 INCH FROM THE TU1258'ROCK. THE ARROW POINTS ABOUT 30 DEGREES RIGHT OF THE STATION TU1258'MARK AND THE LOCATION OE THE MARK MAKES IT VERY DIFEICULT TO TU1258'MEASURE ACCURATELY TO THE STATION. REFERENCE MARK NUMBER TWO TU1258'WAS RE-INEORCED WITH CEMENT AND A NEW REFERENCE MARK, NUMBER TU1258'THREE, WAS ESTABLISHED. A COMPLETE DESCRIPTION FOLIOWS-TU1258'
TU1258'STATION IS LOCATED ABOUT 0.8 MILE AIRLINE NORTHEAST OF THE FEDERAL TU1258'BUILDING IN HONOLULU, ON THE WEST RIM OF PUNCHBOWL CRATER, AND ON TU1258'THE HIGHEST KNOLL ON THE RIM.
TU1258 ${ }^{\prime}$

TU1258'TO REACH STATION FROM THE OFFICE OF THE PUNCHBOWL CEMETERY TU1258' (NATIONAL MEMORIAL CEMETERY OF THE PACIFIC), JUST INSIDE THE TU1258'ENTRANCE GATE TO PUNCHBOWL CRATER, GO LEFT AND FOLLOW S. OUTER TU1258'DRIVE AROUND SOUTH SIDE OF CEMETERY FOR 0.3 MILE TO JUNCTION WITH TU1258'OBSERVATION POINT DRIVE, AND END OF TRUCK TRAVEL. PACK WESTERLY TU1258'ON DIM TRAIL UP THROUGH BRUSH FOR ABOUT 75 YARDS TO TOP OF KNOLL TU1258'AND STATION.
TU1258'
TU1258'STATION MARK IS AN UNSTAMPED, HAWAII TERRITORIAL SURVEY DISK, TU1258'SET IN CONCRETE, ABOUT 7 INCHES BELOW GROUND L,EVEL. IT IS 4.5 TU1258' FEET NORTHWEST OF THE NORTHWEST CORNER OF A CONCRETE
TU1258'PILLBOX. THERE IS A TYPE B, HAWAII TERRITORIAL SURVEY SIGNAL TU1258'CENTERED OVER THE MARK.
TU1258'
TU1258'REFERENCE MARK NUMBER ONE IS A STANDARD DISK, STAMPED PUNCHBOWL TU1258'NO 1, SET IN THE TOP OF A 12-INCH-SQUARE, CONCRETE BLOCK THAT TU1258'PROJECTS 1 FOOT FROM THE FLAT, CONCRETE ROOF OF THE PILLBOX. THE TU1258'MARK IS 8.7 EEET SOUTHEAST OF A TALL VENT-PIPE, 5 FEET SOUTHWEST TU1258'OF A SHORT VENT-PIPE, AND ABOUT 4-1/2 FEET HIGHER THAN STATION TU1258'MARK.
TU1258 ${ }^{\text {r }}$
TU1258'REFERENCE MARK NUMBER TWO IS A STANDARD DISK STAMPED PUNCHBOWL TU1258'NO 2, CEMENTED IN A DRILL HOLE IN THE BOTTOM STEP OF A BEDROCK TU1258'LEDGE THAT DROPS DOWN TO THE SOUTHWEST FROM STATION ELEVATION. THE TU1258'MARK IS 4.7 FEET WEST OF A METAL STAKE, 5 FEET WEST OF A TU1258'RIGHT-ANGLE JOG IN THE BEDROCK LEDGE, AND 4.3 FEET LOWER THAN TU1258'STATION MARK.
TU1258'
TU1258'REFERENCE MARK NUMBER THREE IS A STANDARD DISK STAMPED PUNCHBOWL, TU1258'1873-1928 NO 3 1963, CEMENTED IN A DRILL HOLE IN THE TOP OF A TU1258'BEDROCK LEDGE. IT IS $3-1 / 2$ EEET EAST OF THE METAL STAKE AND ABOUT TU1258'0.3 FOOT HIGHER THAN STATION MARK.
TU1258
TU1258 STATION RECOVERY (1969)
TU1258
TU1258'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1969 (CAA)
TU1258'STATION MARK, REFERENCE MARKS 1, 2 AND 3 WERE RECOVERED AS
TU1258'DESCRIBED IN THE 1963 DESCRIPTION AND WERE FOUND IN GOOD
TU1258'CONDITION. THE TO REACH IS ADEQUATE.
TU1258 ${ }^{\circ}$
TUI258'NO MEASUREMENT BETWEEN REFERENCE MARKS DUE TO THEIR LOCATION. TU1258 ${ }^{\text {' }}$
TU1258'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN TU1258'0.8 MILE NORTHEAST OF FEDERAL BUILDING IN HONOLULU.
TU1258
TU1258 STATION RECOVERY (1970)
TU1258
TU1258'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970 (EHF)
TU1258'PREVIOUS DESCRIPTION OF 1963 IS ADEQUATE. THE REFERENCE MARKS
TU1258'ARE IN GOOD CONDITION.
TU1258'
TU1258'THE TYPE B SUPERSTRUCTION OVER THE STATION HAS BEEN CONVERTED TU1258'TO TYPE A. THE SIDE WALLS ARE BUILT OF CONCRETE TILE BLOCKS TU1258'ABOUT 6 FEET HIGH AND SUPPORTING A 6X6 FOOT CONCRETE OBSERVING TU1258'PLATFORM. THE STATION MARK IS ACCESSIBLE FOR INSPECTION. THIS
TU1258'WORK WAS COMPLETED ON JANUARY 30, 1970.
TU1258
TU1258 STATION RECOVERY (1973)
TU1258
TU1258'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973 (JVT)
TU1258'THE STATION AND REFERENCE MARKS WERE RECOVERED AS DESCRIBED.
TU1258
TU1258
STATION RECOVERY (2004)

## DATASHEETS

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TU1258
TU1258'RECOVERY NOTE BY HAWAII DEPARTMENT OF TRANSPORTATION 2004 (CBG)
TU1258'RECOVERED BY STATE OF HAWAII DEPARTMENT OF TRANSPORTATION 2004 (CBG)
TU1258'RECOVERED MARK, TO REACH STATION ADEQUATE
TU1258
TU1258 STATION RECOVERY (2007)
TU1258
TU1258'RECOVERY NOTE BY HAWAII DEPARTMENT OF TRANSPORTATION 2007 (CG)
TU1258'RECOVERED AS DESCRIBED
*** retrieval complete.
Elapsed Time = 00:00:03
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## The NGS Data Sheet

See file dsdata.txt for more information about the datasheet. DATABASE $=$, PROGRAM $=$ datasheet, VERSION $=7.61$
1 National Geodetic Survey, Retrieval Date = OCTOBER 20, 2008

TU0413 DESIGNATION - H 2
TU0413 PID - TU0413
TU0413 STATE/COUNTY- HI/HONOLULU
TU0413 USGS QUAD - HONOLULU (1983)
TU0413
TU0413 *CURRENT SURVEY CONTROL
TU0413
TU0413* NAD 83(1986)- $211755 . \quad$ (N) $1575005 . \quad$ (W)
TU0413* LOCAL TIDAL - 9.611 (meters) 31.53 (feet) ADJ UNCH
TU0413
TU0413 GEOID HEIGHT- 15.68 (meters) GEOID03
TU0413 VERT ORDER - FIRST CLASS II
TU0413
TU0413. The horizontal coordinates were scaled from a topographic map and have TU0413. an estimated accuracy of $+/-6$ seconds.
TU0413
TU0413. The orthometric height was key entered from printed documents
TU0413. and not key verified.
TU0413
TU0413. The geoid height was determined by GEOID03.
TU0413
TU0413; North East Units Estimated Accuracy TU0413;SPC HI 3-14,620. 517,150. MT (+/-180 meters Scaled)
TU0413
TU0413 SUPERSEDED SURVEY CONTROL
TU0413
TU0413. No superseded survey control is available for this station.
TU0413
TU0413_U.S. NATIONAL GRID SPATIAL ADDRESS: 4QFJ208556(NAD 83)
TU0413_MARKER: $\mathrm{DB}=$ BENCH MARK DISK
TU0413-SETTING: $7=$ SET IN TOP OF CONCRETE MONUMENT
TUO413_SP SET: SET IN TOP OF CONCRETE MONUMENT
TU0413-STĀMPING: H 2
TU0413_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
TU0413+STABILITY: SURFACE MOTION
TU0413
TU0413 HISTORY - Date Condition Report By
TU0413 HISTORY - UNK MONUMENTED CGS
TU0413 HISTORY - 1969 GOOD NGS
TU0413 HISTORY - 19990422 GOOD USPSQD
TU0413
TU0413
STATION DESCRIPTION
TU0413
TU0413'DESCRIBED BY NATIONAL GEODETIC SURVEY 1969
TU0413'2.0 MI SE FROM HONOLULU.
TU0413'0. 25 MILES NORTHEAST ALONG RICHARDS STREET FROM THE POST OFFICE AT TUO413'HONOLULU, THENCE 1.75 MILES SOUTHEAST ALONG SOUTH BERETANIA STREET, AT TU0413'THE EAST CORNER OF THE JUNCTION OF PUNAHOU STREET, AT THE SOUTHWEST TU0413'CORNER OF THE GROUNDS OF THE CENTRAL UNION CHURCH, 14.0 FEET NORTHEAST TU0413'OF THE NORTHEAST EDGE OF THE NORTHEAST SIDEWALK OF SOUTH BERETANIA

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TU0413'STREET, 33.3 FEET SOUTHEAST OF A METAL TRAFFIC SIGNAL POST, 15.0 FEET
TU0413'SOUTHWEST OE A MONUMENT WITH A CENTRAL UNION CHURCH PLAAQUE, IN THE TOP
TU0413'OF A CONCRETE POST PAINTED YELLOW AND PROJECTS 0.5 FOOT ABOVE THE
TU0413'GROUND.
TU0413
TU0413 STATION RECOVERY (1999)
TU0413
TU0413'RECOVERY NOTE BY US POWER SQUADRON 1999
TU0413'RECOVERED IN GOOD CONDITION.
*** retrieval complete.
Elapsed Time = 00:00:00
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| Point | Northing | Easting | Elevation | Description |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 0.0000 | 0.0000 | 0.00 | PUNCHBOWL |
| 2 | 168.9528 | 2,031.4864 | 0.00 | PUNCHBOWL EAST |
| 3 | 1,823.3092 | 4,170.8063 | 0.00 | STA. CP-2294 MAG |
| 4 | 2,161.9876 | 4,527.7119 | 414.25 | STA. CP-2355 MAG |
| 5 | 2,321.4812 | 5,209.7258 | 448.14 | STA. CP-2408 RR |
| 6 | 2,071.5671 | 5,291.5238 | 464.08 | STA. CP-162 Y-CU |
| 7 | 1,829.9024 | 4,999.0875 | 486.76 | STA. CP-164 Y-CU |
| 8 | 1,647.3213 | 4,976.5565 | 493.76 | STA. CP-165 + CU |
| 9 | 1,471.7908 | 5,053.9991 | 501.70 | BRASS DISK-1 |
| 10 | 1,124.7127 | 5,642.7390 | 536.33 | STA. CP-169 MAG |
| 11 | 1,104.2137 | 5,868.1548 | 550.13 | STA. CP-170 Y-CU |
| 12 | 1,161.8248 | 6,079.7253 | 568.32 | STA. CP-171 RR S |
| 13 | 1,778.4591 | 5,571.9768 | 617.02 | STA. CP-174 Y-CU |
| 14 | 1,862.7715 | 5,734.5359 | 630.12 | STA. CP-175 RR S |
| 15 | 1,735.7044 | 5,960.5197 | 645.87 | STA. CP-176A 1/2 |
| 16 | 1,701.0119 | 6,298.4838 | 665.13 | BRASS DISK-2 |
| 17 | 1,783.1066 | 6,155.8407 | 672.64 | STA. CP-1A RR SP |
| 18 | 1,971.2871 | 6,000.4931 | 687.97 | STA. CP-3 RR SPI |
| 19 | 2,217.5145 | 6,083.8019 | 702.88 | STA. CP-4 Y-CUT |
| 20 | 2,394.6286 | 6,076.0054 | 714.64 | BRASS DISK-3 |
| 21 | 2,236.9142 | 6,382.6571 | 0.00 | STA. CP-5 MON SP |
| 22 | 2,232.9340 | 6,518.7309 | 750.76 | BRASS DISK-4 |
| 23 | 2,645.7182 | 6,275.9454 | 780.95 | STA. CP-7 Y-CUT |
| 24 | 2,567.9040 | 6,617.5857 | 800.55 | STA. CP-8 1/2" P |
| 25 | 2,778.3178 | 6,570.5170 | 819.38 | STA. CP-9 Y-CUT |
| 26 | 2,858.1529 | 6,780.2020 | 840.20 | BRASS DISK-5 |
| 27 | 3,188.9841 | 6,833.2547 | 870.11 | STA. CP-13 RR SP |
| 28 | 3,065.2426 | 6,787.5389 | 0.00 | STA. CP-12 |
| 29 | 3,335.0905 | 6,948.9878 | 887.05 | STA. CP-14 MAG N |
| 30 | 3,603.9022 | 6,992.1509 | 910.72 | STA. CP-14A MAG |
| 32 | 3,754.9645 | 6,949.1794 | 924.51 | STA. CP-15 MAG N |
| 33 | 3,942.7301 | 6,935.7313 | 939.15 | BRASS DISK-6 |
| 34 | 4,324.5622 | 7,383.6297 | 969.48 | STA. CP-18 1/2" |
| 35 | 4,552.3567 | 7,526.6791 | 981.38 | STA. CP-19 MAG N |
| 36 | 4,708.3581 | 7,594.9375 | 991.97 | STA. CP-20 1/2" |
| 37 | 4,921.2423 | 7,758.0104 | 1,005.60 | STA. CP-22 1/2" |
| 38 | 5,003.4554 | 7,703.5917 | 1,007.80 | STA. CP-23 1/2" |
| 39 | 4,898.0404 | 7,306.7055 | 1,026.10 | STA. CP-24 MAG N |
| 40 | 4,823.9662 | 6,909.9013 | 1,046.71 | STA. CP-26 MAG N |
| 41 | 4,840.1987 | 6,652.5257 | 1,060.35 | STA. CP-27 1/2" |
| 42 | 4,921.1781 | 6,995.3997 | 1,078.36 | STA. CP-29 1/2" |
| 43 | 5,114.8212 | 7,405.4674 | 1,103.16 | STA. CP-31 1/2" |
| 44 | 5,315.6535 | 7,743.3248 | 1,124.33 | STA. CP-33 Y-CUT |
| 45 | 5,465.6405 | 7,915.5667 | 0.00 | STA. CP-34 1/2" |
| 46 | 5,448.4184 | 8,083.1601 | 1,138.97 | STA. CP-35 1/2" |
| 47 | 5,243.0926 | 8,159.9976 | 1,143.49 | STA. CP-36 1/2" |
| 48 | 4,970.8998 | 8,174.8723 | 1,157.80 | STA. CP-37 1/2" |
| 49 | 4,819.5458 | 8,050.8424 | 1,166.54 | BRASS DISK REF-A |
| 50 | 4,891.8662 | 8,185.4440 | 1,171.99 | STA. CP-38 1/2" |
| 51 | 5,047.8353 | 8,252.8613 | 0.00 | STA. CP-39 1/2" |
| 52 | 5,280.1451 | 8,281.4971 | 1,194.73 | STA. CP-40 1/2" |
| 53 | 5,573.9819 | 8,254.1143 | 1,209.57 | STA. CP-41 1/2" |
| 54 | 5,690.4237 | 8,063.2145 | 1,218.22 | STA. CP-42 1/2" |
| 55 | 5,614.9332 | 7,681.4885 | 1,239.26 | STA. CP-44 1/2" |
| 56 | 5,710.5784 | 7,864.1518 | 1,252.45 | STA. CP-45 1/2" |
| 57 | 5,652.4596 | 7,731.8364 | 1,241.18 | BRASS DISK-7 |
| 58 | 5,805.5082 | 8,064.0601 | 1,265.28 | STA. CP-46 1/2" |
| 59 | 5,761.8012 | 8,258.6346 | 1,273.65 | STA. CP-47 1/2" |
| 60 | 5,717.5403 | 8,431.4713 | 1,283.61 | STA. CP-48 1/2" |
| 61 | 5,525.8747 | 8,524.7095 | 1,296.31 | STA. CP-49 1/2" |
| 62 | 5,780.2106 | 8,501.7068 | 1,310.42 | STA. CP-50 1/2" |

Appendix C

| Point | Northing | Easting | Elevation | Description |
| :---: | :---: | :---: | :---: | :---: |
| 63 | 5,930.5734 | 8,235.3666 | 1,328.09 | STA. CP-51 1/2" |
| 64 | 5,940.0796 | 8,547.2228 | 1,348.48 | STA. CP-52A MAG |
| 65 | 5,811.9149 | 8,724.5393 | 1,361.19 | STA. CP-53 1/2" |
| 66 | 5,946.3390 | 8,709.9636 | 1,373.78 | STA. CP-54 1/2" |
| 67 | 6,067.7651 | 8,543.4626 | 1,387.35 | STA. CP-55 1/2" |
| 68 | 6,149.8665 | 8,346.9096 | 1,400.88 | STA. CP-56 Y-CUT |
| 69 | 6,206.8635 | 8,472.7681 | 1,409.16 | STA. CP-57 1/2" |
| 70 | 6,147.1722 | 8,652.7825 | 1,419.32 | STA. CP-58 1/2" |
| 71 | 6,115.3539 | 8,877.6617 | 1,439.76 | STA. CP-59 1/2" |
| 72 | 6,266.4423 | 8,805.4966 | 1,452.90 | STA. CP-60 1/2" |
| 73 | 6,370.1194 | 9,020.2988 | 1,461.94 | BRASS DISK-8 |
| 74 | 6,679.3119 | 9,444.2879 | 1,460.87 | BRASS DISK REF-B |
| 75 | 6,667.8695 | 9,634.8818 | 1,467.51 | STA. CP-65 1/2" |
| 76 | 6,800.9995 | 9,751.5300 | 1,476.26 | STA. CP-66 1/2" |
| 77 | 6,832.1967 | 9,959.1553 | 1,487.67 | STA. CP-67 1/2" |
| 78 | 6,928.0533 | 10,127.8859 | 1,498.26 | STA. CP-68 1/2" |
| 79 | 7,092.1083 | 10,350.7296 | 1,515.13 | STA. CP-69 1/2" |
| 80 | 6,762.8664 | 10,462.5823 | 1,527.40 | STA. CP-70A MAG |
| 81 | 6,709.8287 | 10,669.7034 | 1,539.12 | STA. CP-71 1/2" |
| 82 | 6,834.3942 | 10,937.6004 | 1,553.49 | STA. CP-72 1/2" |
| 83 | 6,749.2793 | 11,126.7306 | 1,563.82 | STA. CP-73 1/2" |
| 84 | 6,813.4555 | 11,221.8772 | 0.00 | STA. CP-74 1/2" |
| 85 | 6,754.2712 | 11,333.6284 | 1,577.43 | STA. CP-75 Y-CUT |
| 86 | 6,761.7574 | 11,407.0145 | 0.00 | STA. CP-76 Y-CUT |
| 87 | 6,652.7974 | 11,541.4259 | 1,591.12 | BRASS DISK-10 |
| 88 | 6,786.1744 | 11,694.2919 | 0.00 | STA. CP-77 1/2" |
| 89 | 6,793.0512 | 11,925.5067 | 1,612.88 | STA. CP-78 1/2" |
| 90 | 6,641.5580 | 12,010.7882 | 1,605.24 | "STA, CP-79 Y-CU |
| 91 | 6,538.9426 | 11,938.4373 | 0.00 | STA. CP-80 Y-CUT |
| 92 | 6,450.5665 | 11,852.5965 | 1,591.43 | BRASS DISK-11 |
| 93 | 6,394.6048 | 11,941.1297 | 1,580.78 | STA. CP-82 1/2" |
| 94 | 6,462.8907 | 12,060.3839 | 1,570.85 | STA. CP-83 1/2" |
| 95 | 6,591.4636 | 12,166.2451 | 1,563.68 | STA. CP-84 1/2" |
| 96 | 6,739.4871 | 12,215.1499 | 0.00 | STA. CP-85 1/2" |
| 97 | 6,866.2961 | 12,373.2660 | 1,544.50 | STA. CP-86 1/2" |
| 98 | 6,571.6095 | 12,417.9364 | 1,528.78 | STA. CP-87 1/2" |
| 99 | 6,488.7247 | 12,533.6180 | 1,516.92 | STA. CP-88 1/2" |
| 100 | 6,322.4731 | 12,463.8925 | 0.00 | STA. CP-89 1/2" |
| 101 | 6,194.4127 | 12,379.3263 | 1,486.70 | BRASS DISK-12 |
| 102 | 5,987.2225 | 12,247.6262 | 1,466.43 | STA. CP-91 1/2" |
| 103 | 5,770.8487 | 12,030.8379 | 1,440.13 | STA. CP-92 1/2" |
| 104 | 5,677.9799 | 11,875.4033 | 1,425.43 | STA. CP-93 1/2" |
| 105 | 5,520.0253 | 11,852.7132 | 1,413.38 | STA. CP-94 1/2" |
| 106 | 5,450.9980 | 11,741.5842 | 0.00 | STA. CP-95 1/2" |
| 107 | 5,295.5619 | 11,624.1511 | 1,385.81 | STA. CP-96 1/2" |
| 108 | 5,130.6995 | 11,611.2682 | 1,372.11 | STA. CP-97 1/2" |
| 109 | 4,984.6953 | 11,543.3103 | 0.00 | STA. CP-98 1/2" |
| 110 | 4,833.8985 | 11,522.0370 | 1,346.54 | STA. CP-99 1/2" |
| 111 | 4,706.2672 | 11,456.6383 | 1,335.36 | STA. CP-100 RR S |
| 112 | 4,668.6552 | 11,553.4421 | 1,330.30 | STA. CP-101 1/2" |
| 113 | 4,756.3300 | 11,729.7831 | 1,331.74 | STA. CP-102 1/2" |
| 114 | 4,785.9252 | 11,906.9563 | 1,335.66 | STA. CP-103 1/2" |
| 115 | 4,933.8378 | 12,126.9415 | 1,340.52 | STA. CP-104 Y-CU |
| 116 | 4,984.7650 | 12,469.2600 | 1,348.92 | STA. CP-105 1/2" |
| 117 | 4,865.1803 | 12,475.4740 | 1,353.08 | STA. CP-106 1/2" |
| 118 | 4,626.5170 | 12,301.3733 | 1,358.02 | STA. CP-107 1/2" |
| 119 | 4,391.7145 | 11,954.1480 | 0.00 | STA. CP-109 1/2" |
| 120 | 4,242.4495 | 11,871.3652 | 1,366.13 | STA. CP-109A 1/2 |
| 121 | 4,034.2731 | 11,635.9894 | 1,367.83 | STA. CP-111 1/2" |
| 122 | 3,819.0414 | 11,561.0889 | 1,370.22 | STA. CP-112 1/2" |
| 123 | 3,676.0082 | 11,443.9427 | 1,366.02 | STA. CP-113 1/2" |

Appendix C

| Point | Northing | Easting | Elevation | Description |
| :---: | :---: | :---: | :---: | :---: |
| 124 | 3,534.7625 | 11,266.4190 | 1,355.31 | BRASS DISK-13 |
| 125 | 3,281.5099 | 11,444.3015 | 1,332.23 | BRASS DISK REF-C |
| 126 | 3,178.7959 | 11,459.6270 | 0.00 | STA. CP-116 1/2" |
| 127 | 3,458.1078 | 11,490.6459 | 1,305.66 | STA. CP-117 1/2" |
| 128 | 3,543.2240 | 11,723.2988 | 1,290.02 | STA. CP-118 1/2" |
| 129 | 3,397.0600 | 11,909.2576 | 1,275.50 | STA. CP-119 1/2" |
| 130 | 3,029.7139 | 11,753.3495 | 1,263.07 | STA. CP-120 1/2" |
| 131 | 2,787.5433 | 11,591.7886 | 1,245.99 | BRASS DISK REF-D |
| 132 | 2,594.2401 | 11,011.8383 | 1,208.95 | BRASS DISK REF-E |
| 133 | 2,638.6026 | 10,825.8704 | 0.00 | STA. CP-124 1/2" |
| 134 | 2,549.4865 | 10,505.6090 | 1,178.83 | STA. CP-125 1/2" |
| 135 | 2,447.1313 | 10,407.6842 | 0.00 | STA. CP-126 1/2" |
| 136 | 2,268.7832 | 10,354.2559 | 1,163.42 | STA. CP-127 1/2" |
| 137 | 2,090.4769 | 10,145.6854 | 0.00 | STA. CP-128 1/2" |
| 138 | 1,976.3138 | 10,159.0691 | 1,136.42 | BRASS DISK-14 |
| 139 | 2,041.7944 | 10,511.5923 | 1,109.82 | STA. CP-131 1/2" |
| 140 | 2,283.5679 | 10,651.7414 | 1,095.54 | STA. CP-132 1/2" |
| 141 | 2,165.8473 | 11,229.1615 | 1,060.07 | STA. CP-133 1/2" |
| 142 | 1,997.3213 | 11,303.7612 | 1,049.70 | STA. CP-134 1/2" |
| 143 | 1,816.4792 | 11,264.8497 | 1,039.44 | STA. CP-135 1/2" |
| 144 | 1,605.8358 | 11,152.1673 | 1,027.43 | STA. CP-136 1/2" |
| 145 | 1,861.0386 | 11,211.7238 | 1,017.21 | STA. CP-137 1/2" |
| 146 | 1,950.8423 | 11,156.4347 | 1,013.89 | STA. CP-138 1/2" |
| 147 | 1,777.0875 | 10,990.9077 | 0.00 | STA. CP-139 1/2" |
| 148 | 1,844.6754 | 10,837.4188 | 976.96 | STA. CP-140 Y-CU |
| 149 | 1,594.2831 | 10,290.9738 | 0.00 | STA. CP-142 1/2" |
| 150 | 1,590.1880 | 10,625.8678 | 916.36 | STA. CP-143 1/2" |
| 151 | 1,165.9318 | 10,714.7515 | 886.30 | STA. CP-144 Y-CU |
| 152 | 845.5521 | 10,347.6645 | 851.84 | STA. CP-145 1/2" |
| 153 | 571.0522 | 10,041.6918 | 822.78 | BRASS DISK-17 |
| 154 | 368.4435 | 9,525.2665 | 787.36 | STA. CP-148 1/2" |
| 155 | 58.8063 | 9,215.4853 | 0.00 | STA. CP-149 1/2" |
| 156 | -305.9016 | 8,911.9031 | 729.05 | STA. CP-150 1/2" |
| 157 | -701.6659 | 8,510.5022 | 695.65 | STA. LOOKOUT MON |
| 158 | -738.9441 | 8,368.2809 | 688.02 | BRASS DISK-18 |
| 159 | -600.2751 | 8,164.3740 | 676.00 | STA. CP-152 1/2" |
| 160 | -476.5252 | 8,060.1222 | 666.03 | STA. CP-153 Y-CU |
| 161 | -273.1507 | 7,795.2447 | 646.08 | STA. CP-154 Y-CU |
| 162 | -106.5272 | 7,618.6229 | 631.86 | STA. CP-155 Y-CU |
| 163 | 199.9106 | 7,706.0449 | 613.70 | STA. CP-156 1/2" |
| 164 | 833.2662 | 8,109.7252 | 570.55 | STA. CP-157 Y-CU |
| 165 | 1,068.7803 | 8,202.1761 | 558.21 | BRASS DISK-19 |
| 166 | 898.6257 | 8,035.4271 | 531.20 | STA. CP-159 1/2" |
| 167 | 635.2657 | 7,832.8531 | 512.28 | STA. CP-160 1/2" |
| 168 | 236.3941 | 7,436.8809 | 477.69 | BRASS DISK-20 |
| 169 | 461.1896 | 8,978.5371 | 0.00 | ROUND TOP |
| 170 | -6,413.8223 | 9,574.6604 | 0.00 | GPS 10 |
| 171 | 1,647.7282 | 11,168.8226 | 1,028.43 | BRASS DISK-15 |
| 172 | 1,573.1399 | 10,383.4305 | 934.18 | BRASS DISK-16 |
| 173 | 6,744.5479 | 10,485.3462 | 1,528.15 | BRASS DISK-9 |

Appendix C


# STATUS REPORT 

## Maximum liability limited to \$3,500. 00

This report (and any revisions thereto) is issued solely for the convenience of the titleholder, the titleholder's agent, counsel, purchaser or mortgagee, or the person ordering it.

## SCHEDULE A

Title Guaranty of Hawaii, Incorporated, hereby reports that, subject to those matters set forth in Schedule "B" hereof, the title to the estate or interest to the land described in Schedule "C" hereof is vested in:

> KAREN CALDWELL PERKINS,
> Trustee under that certain unrecorded Karen Caldwell Perkins Revocable Living
> Trust Agreement dated July 14, 1980, with full powers to sell, mortgage, lease or otherwise deal with the land, as to an undivided 1/4 interest,
> THOMAS DUNN PERKINS,
> Trustee under that certain unrecorded Thomas Dunn Perkins Revocable Living
> Trust Agreement dated July 14, 1980, with full powers to sell, mortgage, lease or
> otherwise deal with the land, as to an undivided 1/4 interest, and
> ROBERT B. MARCHANT, Trustee under that certain unrecorded Robert B. Marchant Revocable Living Trust Agreement dated April 12, 1983, with full powers to sell, mortgage, lease or otherwise deal with the land, as to an undivided 2/4 interest, as Fee Owner

This report is dated as of September 24, 2008 at 8:00 a.m.

```
Inquiries concerning this report
should be directed to
EDISON CARIAGA.
Email ecariaga@tghawaii.com
Fax (808) 521-0210
Telephone (808) 533-5855.
Refer to Order No. 200844613.
```


## SCHEDULE B <br> EXCEPTIONS

1. Real Property Taxes, if any, that may be due and owing.

Tax Key: (1) 2-5-012-003 Area Assessed: 1.960 Acres
2. Exception and reservation for an exclusive easement to use, occupy and enjoy, being more particularly described as follows:

Beginning at the southeast corner of this piece of land and on the northerly side of Tantalus Drive, the coordinates of said point of beginning referred to Government Survey Triangulation Station "PUNCHBOWL" being 6,953.09 feet north and 10,129.54 feet east, and running by true azimuths measured clockwise from true South:

1. $72^{\circ} 10^{\prime} \quad 183.80$ feet along the northerly side of Tantalus Drive;
2. $94^{\circ} 15^{\prime} \quad 86.00$ feet along the northerly side of Tantalus Drive;
3. $108^{\circ} 52^{\prime} \quad 64.30$ feet along the northerly side of Tantalus Drive;
4. $232^{\circ} 38^{\prime}$
356.20 feet along R. P. 8186, L. C. Aw. 11215, Apana 2 to Kealiiahonui along the land of Kalawahine;
5. $322^{\circ} 38^{\prime} 92.00$ feet;
6. $8^{\circ} 39^{\prime} \quad 115.25$ feet to the point of beginning
and containing an area of 0.956 acres, more or less.
7. Exception and reservation for an exclusive easement to use, occupy and enjoy, being more particularly described as follows:

## SCHEDULE B CONTINUED

Beginning at the south corner of this piece of land, and on the northerly side of Tantalus Drive, the coordinates of said point of beginning referred to Government Survey Triangulation Station "PUNCHBOWL" being 6,953.09 feet north and 10,129.54 feet east, and running by true azimuths measured clockwise from South:

1. $188^{\circ} 39^{\prime} 115.25$ feet;
2. $142^{\circ} 38^{\prime} 92.00$ feet;
3. $232^{\circ} 38^{\prime} \quad 253.00$ feet along R. P. 8186, L. C. Aw. 11215, Apana 2 to Kealiiahonui along the land of Kalawahine;
4. $341^{\circ} 40^{\prime} 188.00$ feet;
5. $51^{\circ} 42$
247.30 feet along the northerly side of Tantalus Drive;
6. $72^{\circ}$ 10' $^{\prime} 29.00$ feet along the northerly side of Tantalus Drive to the point of beginning and containing an area of 1.004 acres, more or less.
7. Discrepancies, conflicts in boundary lines, shortage in area, encroachments or any other matters which a correct survey or archaeological study would disclose.
8. The terms and provisions contained in the following:

INSTRUMENT : DECLARATION OF RESTRICTIVE COVENANTS
DATED : September 7, 1989
RECORDED : Liber 23623 Page 315
6. Encroachments by Tantalus Drive an adjoining public highway.
7. MORTGAGE AND FINANCING STATEMENT

| MORTGAGOR | MARY KAREN CALDWELL PERKINS, also known as KAREN CALDWELL PERKINS, Trustee under that certain unrecorded Karen Caldwell Perkins Revocable Living Trust Agreement dated July 14, 1980, THOMAS DUNN PERKINS, Trustee under that certain unrecorded Thomas Dunn Perkins Revocable Living Trust Agreement dated July 14, 1980, and ROBERT B. MARCHANT, Trustee under that certain unrecorded Robert B. Marchant Revocable Living Trust Agreement dated April 12, 1983 |
| :---: | :---: |
| MORTGAGEE | FIRST HAWAIIAN BANK |
| DATED | June 1, 1994 |
| FILED | Land Court Document No. |
| RECORDED | Document No. 94-094411 |
| AMOUNT | Equity FirstLine Agreement, a principal sum not to exceed \$150,000.00 |

## END OF SCHEDULE B

## SCHEDULE C

All of that certain parcel of land (being all of the land(s) described in and covered by Land Patent Grant Number 4589 to Mary E. Foster) situate, lying and being at Makiki, Honolulu, City and County of Honolulu, State of Hawaii,being LOT 1-B of the "TANTALUS HEIGHTS", and thus bounded and described:

Beginning at a pipe at the north corner of this parcel of land, the coordinates of said point of beginning referred to Government Survey Triangulation Station "PUOWAINA" being 7,293.70 feet by azimuths measured clockwise from true South:

1. $341^{\circ} 40^{\prime}$
2. $51^{\circ} \quad 42^{\prime}$
3. $72^{\circ} \quad 10^{\prime}$
4. $94^{\circ} \quad 15^{\prime}$
5. $10^{\circ} \quad 52^{\prime}$
6. $232^{\circ} 38^{\prime}$
188.00 feet along Government land to a pipe;
247.30 feet along the north side of Tantalus Drive to a spike;
212.80 feet along the north side of 20Ft. Right-of-Way to a pipe;
86.00 feet along the north side of 20Ft. Right-of-Way to an iron pin;
64.30 feet along the north side of 20Ft. Right-of-Way to a pipe;
609.20 feet along the boundary of Kalawahine to the point of beginning and containing an area of 1.96 acres, more or less.

Said above described parcel of land having been acquired as follows:

1. By KAREN CALDWELL PERKINS, Trustee under that certain unrecorded Karen Caldwell Perkins Revocable Living Trust Agreement dated July 14, 1980, as to an undivided $1 / 4$ interest, by DEED of THOMAS D. PERKINS and KAREN C. PERKINS, husband and wife, dated July 14, 1980, recorded in Liber 14915 at Page 739;
2. By THOMAS DUNN PERKINS, Trustee under that certain unrecorded Thomas Dunn Perkins Revocable Living Trust Agreement dated July 14, 1980, as to an undivided $1 / 4$ interest, by DEED of THOMAS D. PERKINS and KAREN C. PERKINS, husband and wife, dated July 14, 1980, recorded in Liber 14915 at Page 744; and
3. By ROBERT B. MARCHANT, Trustee under that certain unrecorded Robert B. Marchant Revocable Living Trust Agreement dated April 12, 1983, as to an undivided $1 / 2$ interest, by the following Deeds:
(A) By DEED of ROBERT B. MARCHANT and JEAN C. MARCHANT, husband and wife, dated April 12, 1983, recorded in Liber 17029 at Page 269; and
(B) By DEED of JEAN C. MARCHANT, Trustee under that certain unrecorded Jean C. Marchant Revocable Living Trust Agreement dated April 12, 1983, recorded in Liber 19635 at Page 330.

## END OF SCHEDULE C

## GENERAL NOTES

1. There is hereby omitted from any covenants, conditions and reservations contained herein any covenant or restriction based on race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law. Lawful restrictions under state or federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.

## GUIDELINES FOR THE ISSUANCE OF INSURANCE

A. Taxes shown in Schedule B are as of the date such information is available from the taxing authority. Evidence of payment of all taxes and assessments subsequent to such date must be provided prior to recordation.
B. Evidence of authority regarding the execution of all documents pertaining to the transaction is required prior to recordation. This includes corporate resolutions, copies of partnership agreements, powers of attorney and trust instruments.
C. If an entity (corporation, partnership, limited liability company, etc.) is not registered in Hawaii, evidence of its formation and existence under the laws where such entity is formed must be presented prior to recordation.
D. If the transaction involves a construction loan, the following is required:
(1) a letter confirming that there is no construction prior to recordation; or
(2) if there is such construction, appropriate indemnity agreements, financial statements and other relevant information from the owner, developer, general contractor and major subcontractors must be submitted to the Title Company for approval at least one week prior to the anticipated date of recordation.

Forms are available upon request from Title Guaranty of Hawaii.
E. Chapter 669, Hawaii Revised Statutes, sets forth acceptable tolerances for discrepancies in structures or improvements relative to private property boundaries for various classes of real property. If your survey map shows a position discrepancy that falls within the tolerances of Chapter 669, call your title officer as affirmative coverage may be available to insured lenders.
F. The right is reserved to make additional exceptions and/or requirements upon examination of all documents submitted in connection with this transaction.
G. If a policy of title insurance is issued, it will exclude from coverage all matters set forth in Schedule B of this report and in the printed Exclusions from Coverage contained in an ALTA policy or in the Hawaii Standard Owner's Policy, as applicable. Different forms may have different exclusions and should be reviewed. Copies of the policy forms are available upon request from Title Guaranty of Hawaii or on our website at www.tghawaii.com.

```
DATE PRINTED: 9/29/2008
STATEMENT OF ASSESSED VALUES AND REAL PROPERTY TAXES DUE
NAME OF OWNER: PERKINS,THOMAS D TRUST
LEASED TO :
TAX MAP KEY
DIVISION ZONE SECTION PLAT PARCEL HPR NO.
(1) 20500120030000
CLASS: 1 AREA ASSESSED: 1.960 AC
```

ASSESSED VALUES FOR CURRENT YEAR TAXES: 2008

This certifies that the records of this division show the assessed values and taxes on the property designated by Tax Key shown above are as follows:

| BUILDING | \$ | 564,100 |
| :--- | ---: | ---: |
| EXEMPTION | $\$$ | 240,000 |
| NET VALUE | $\$$ | 324,100 |
| LAND | $\$$ | $1,110,600$ |
| EXEMPTION | $\$$ | 0 |
| NET VALUE | $\$$ | $1,110,600$ |
| TOTAL NET VALUE | $\$$ | $1,434,700$ |



Penalty and Interest Computed to: 7/02/2008

# STATUS REPORT 

> Maximum liability limited to $\$ 3,500.00$

This report (and any revisions thereto) is issued solely for the convenience of the titleholder, the titleholder's agent, counsel, purchaser or mortgagee, or the person ordering it.

## SCHEDULE A

Title Guaranty of Hawaii, Incorporated, hereby reports that, subject to those matters set forth in Schedule "B" hereof, the title to the estate or interest to the land described in Schedule "C" hereof is vested in:

> CAROLYN CARLEY and
> LEE A. WINDELER,
> Trustee or their Successors in Trust, under the Carolyn Carley and Lee A. Windeler Living Trust, dated November 30, 2001, with full powers to sell, mortgage, lease or otherwise deal with the land, as Fee Owner

This report is dated as of September 24, 2008 at 8:00 a.m.

Inquiries concerning this report
should be directed to PATRICIA AHN.
Email pahn@tghawaii.com
Fax (808) 521-0210
Telephone (808) 521-0256.
Refer to Order No. 200844615.

## SCHEDULE B <br> EXCEPTIONS

1. Real Property Taxes, if any, that may be due and owing.

Tax Key: (1) 2-5-013-001 Area Assessed: 1.520 acres
2. REAL PROPERTY MORTGAGE AND FINANCING STATEMENT

LOAN/ACCOUNT NO. 1425792
MORTGAGOR : CAROLYN CARLEY and LEE A. WINDELER, Trustees or their Successors in Trust, under the Carolyn Carley and Lee A. Windeler Living Trust dated November 30, 2001

MORTGAGEE : MORTGAGE ELECTRONIC REGISTRATION SYSTEMS, INC., solely as nominee for FIRST HAWAIIAN BANK, a Hawaii corporation

DATED : September 19, 2003
RECORDED : Document No. 2003-206851
AMOUNT : \$255,000.00
3. MORTGAGE

MORTGAGOR : CAROLYN CARLEY and LEE A. WINDELER, Trustees or their Successors in Trust, under the Carolyn Carley and Lee A. Windeler Living Trust, dated November 30, 2001

MORTGAGEE : FIRST HAWAIIAN BANK, a Hawaii corporation
DATED : July 22, 2004
RECORDED : Document No. 2004-152680
AMOUNT : Revolving Line of Credit Agreement, up to a maximum amount of \$150,000.00

END OF SCHEDULE B

## SCHEDULE C

All of that certain parcel of land (being all of the land(s) described in and covered by Land Patent Grant Number 4425 to J. G. Rothwell) situate, lying and being on Tantalus, City and County of Honolulu, State of Hawaii,being LOT 4 and thus bounded and described:

Beginning at the west corner of this lot at a point on the north side of Tantalus road Reservation from which Government Survey Triangulation Station "TANTALUS" bears north $22^{\circ} 10^{\prime}$ west true 580 feet, and running by true bearings as shown on Government Survey Registered Map No. 1968:

| North | $10^{\circ}$ | $15^{\prime}$ | East | 186 feet along Government Land; |
| :--- | :--- | :--- | :--- | :--- |
| North | $88^{\circ}$ | $40^{\prime}$ | East | 155 feet along Government Land; |
| South | $78^{\circ}$ | $35^{\prime}$ | East | 172 feet along Government Land <br> to road reservation, thence <br> along road reservation on a <br> curved line, the direct bearing <br> and distance being: |
| South | $37^{\circ}$ | $15^{\prime}$ | West | 265 feet, thence |
| South | $17^{\circ}$ | $30^{\prime}$ | West | 152 feet along road reservation; |
| North | $9^{\circ}$ | $30^{\prime}$ | West | $80-1 / 2$ feet along road <br> reservation; |
| North | $51^{\circ}$ | $00^{\prime}$ | West | 70 feet along road reservation; |
| North | $46^{\circ}$ | $10^{\prime}$ | West | 113 feet along road reservation <br> to the initial point, containing <br> an area of 1.52 acres, more or |
|  |  |  |  |  |


| GRANTOR | CAROLYN CARLEY, wife of Lee A. Windeler and LEE A. WINDELER, husband of Carolyn Carley |
| :---: | :---: |
| GRANTEE | CAROLYN CARLEY and LEE A. WINDELER, Trustees or their Successors in Trust, under the Carolyn Carley and Lee A. Windeler Living Trust, dated November 30, 2001, with full powers to sell, mortgage, lease or otherwise deal with the land |
| DATED | November 30, 2001 |
| RECORDED | Document No. 2001-195866 |

## END OF SCHEDULE C

## GUIDELINES FOR THE ISSUANCE OF INSURANCE

A. Taxes shown in Schedule B are as of the date such information is available from the taxing authority. Evidence of payment of all taxes and assessments subsequent to such date must be provided prior to recordation.
B. Evidence of authority regarding the execution of all documents pertaining to the transaction is required prior to recordation. This includes corporate resolutions, copies of partnership agreements, powers of attorney and trust instruments.
C. If an entity (corporation, partnership, limited liability company, etc.) is not registered in Hawaii, evidence of its formation and existence under the laws where such entity is formed must be presented prior to recordation.
D. If the transaction involves a construction loan, the following is required:
(1) a letter confirming that there is no construction prior to recordation; or
(2) if there is such construction, appropriate indemnity agreements, financial statements and other relevant information from the owner, developer, general contractor and major subcontractors must be submitted to the Title Company for approval at least one week prior to the anticipated date of recordation.

Forms are available upon request from Title Guaranty of Hawaii.
E. Chapter 669, Hawaii Revised Statutes, sets forth acceptable tolerances for discrepancies in structures or improvements relative to private property boundaries for various classes of real property. If your survey map shows a position discrepancy that falls within the tolerances of Chapter 669, call your title officer as affirmative coverage may be available to insured lenders.
F. The right is reserved to make additional exceptions and/or requirements upon examination of all documents submitted in connection with this transaction.
G. If a policy of title insurance is issued, it will exclude from coverage all matters set forth in Schedule B of this report and in the printed Exclusions from Coverage contained in an ALTA policy or in the Hawaii Standard Owner's Policy, as applicable. Different forms may have different exclusions and should be reviewed. Copies of the policy forms are available upon request from Title Guaranty of Hawaii or on our website at www.tghawaii.com.

DATE PRINTED: 9/30/2008
STATEMENT OF ASSESSED VALUES AND REAL PROPERTY TAXES DUE NAME OF OWNER: CAROLYN CARLEY \& LEE A WINDELER TRU LEASED TO :

TAX MAP KEY
$\begin{array}{ccccccc}\text { DIVISION ZONE } & \text { SECTION } & \text { PLAT } & \text { PARCEL } & \text { HPR NO. } \\ \text { (1) } & 2 & 5 & 013 & 001 & 0000\end{array}$
CLASS: 1
AREA ASSESSED: 1.520 AC

ASSESSED VALUES FOR CURRENT YEAR TAXES: 2008

This certifies that the records of this division show the assessed values and taxes on the property designated by Tax Key shown above are as follows:

| BUILDING | $\$$ | 142,500 |
| :--- | ---: | ---: |
| EXEMPTION | $\$$ | 80,000 |
| NET VALUE | $\$$ | 62,500 |
| LAND | $\$$ | 802,500 |
| EXEMPTION | $\$$ | 0 |
| NET VALUE | $\$$ | 802,500 |
| TOTAL NET VALUE | $\$$ | 865,000 |


| Insta | llment (1 - due | ; 2 - | 2/20) | Info | 7/ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tax | Installment Tax | Penalty | Interest | Other | Total |  |
| Year | Amount | Amount | Amount | Amount | Amount |  |
| 2008 | 2 1,422.93 |  |  |  | 1,372.93 | PENDING |
| 2008 | 1 1,422.93 |  |  |  | 1,372.93 | PENDING |
| 2007 | 2 2,205.94 |  |  |  | 2,105.94 | PAID |
| 2007 | 1 2,205.95 |  |  |  | 2,105.95 | PAID |
| 2006 | 2 3,383.75 |  |  |  | 3,283.75 | PAID |
| 2006 | $13,383.76$ |  |  |  | 3,283.76 | PAID |
|  |  |  | Total Am | Due: | 2,745.86 |  |

Penalty and Interest Computed to: 7/02/2008

CONTROLPOINT Surveying, Inc.

November 3, 2008
Job No. 07152

SUBJECT: $\quad 4050$ Tantalus Drive - Boundary Study Lot 4<br>Former Land Patent Grant 4425 to J. G. Rothwell<br>Tantalus, Honolulu, Oahu, Hawaii<br>TMK: (1) 2-5-13: 01

On November 2, 2008, a boundary survey was conducted on the above mentioned property. All of its boundary corners were looked for but none were found. Using the record ties (see attached description)referred from Government Survey Triangulation Station "Tantalus", to each point, the owner, who accompanied the surveyors at the time of survey, based on his recollection concurred that the boundary corners were in those general areas. Each point was toned with a magnetic locator and dug for but no evidence of property corners were found. There was no fence or wall near the said points except along the driveway which zigzagged into the property. The owner/occupant also stated that the property has had the same owner since the 1950's and no boundary survey was done.

Using these ties, the location was about where the homeowner was pointing. Since it checked out, we conclude since there are no pins found, nor fences or walls located, we conclude that we will just hold the record ties for this parcel of land.

This report is a result of the survey done by the ControlPoint Surveying, Inc. survey crew.

Surveyed By: Rico D. Erolin, Cipriano Crisostomo and Ray Cruz.

## ACT 131: OUR "ENCROACHMENT" LAW

SECTION 2. Chapter 669, Hawaii Revised Statutes, is amended by adding a new part II to be appropriately designated and to read as follows:

## PART II. STRUCTURE POSITION DISCREPANCIES

669-A De minimus structure position discrepancies, defined. For the purposes of this part, "de minimus structure position discrepancy" means:
(1) For commercial property and multi-unit residential property, 0.25 feet;
(2) For all other residential property, 0.5 feet;
(3) For agricultural and rural property 0.75 feet; and
(4) For conservation property, 1.5 feet;
between the location of an improvement legally constructed along what was reasonably believed to be the boundary line and the actual location of the boundary line based on a modern survey.

## 669-B Consequences.

(1) A de minimus structure position discrepancy shall not be considered an encroachment or a basis for a zoning violation;
(2) No de minimus structure position discrepancy authorized under this part shall be considered as a basis for any claim of adverse possession of land. If the wall or other improvement that is affected by the discrepancy is removed or substantially damaged or destroyed, the replacement improvement shall be constructed to comply with the most recent survey available at the time of construction of the improvement; Responsibility for maintenance and repair of an improvement within a de minimus, structure position discrepancy shall be borne by the property owner who constructed the improvement, or the property owner's success in interest; and Liability for any claims for injuries or damages to persons or property arising out of, or in connection with an improvement, or the property owner's successor in interest.

669-C Restrictions as to owner of property. This part shall not apply to any de minimus structure position discrepancy on public lands, as defined in section 171-2, or to such encroaching improvements incident to shoreline boundaries. If real property subject to this section is owned by a county, any improve- . ment within a de minimus structure position discrepancy shall be removed at the expense of the property owner who constructed the improvement, or the property owner's successor in interest, upon notice, in accordance with the respective county procedures or ordinances.

SECTION 3. Chapter 669, Hawaii Revised Statutes, is amended by designating sections 669-1 to 669-8 as part I and inserting a title before section 669-1 to read as follows:

## "PART I. GENERAL PROVISIONS"

SECTION 4. New statutory material is underscored.
SECTION 5. This Act shall apply to all structure position discrepancies in effect on its effective date without regard to when the facts or actions giving rise to the discrepancy occurred.

SECTION 6. In codifying the new part added to chapter 669, Hawaii Revised Statutes, by section 2 of this Act, the revisor of statutes shall substitute appropriate section numbers for the letters used in the designation of the new sections in this Act.

SECTION 7. This Act shall take effect upon its approval.

