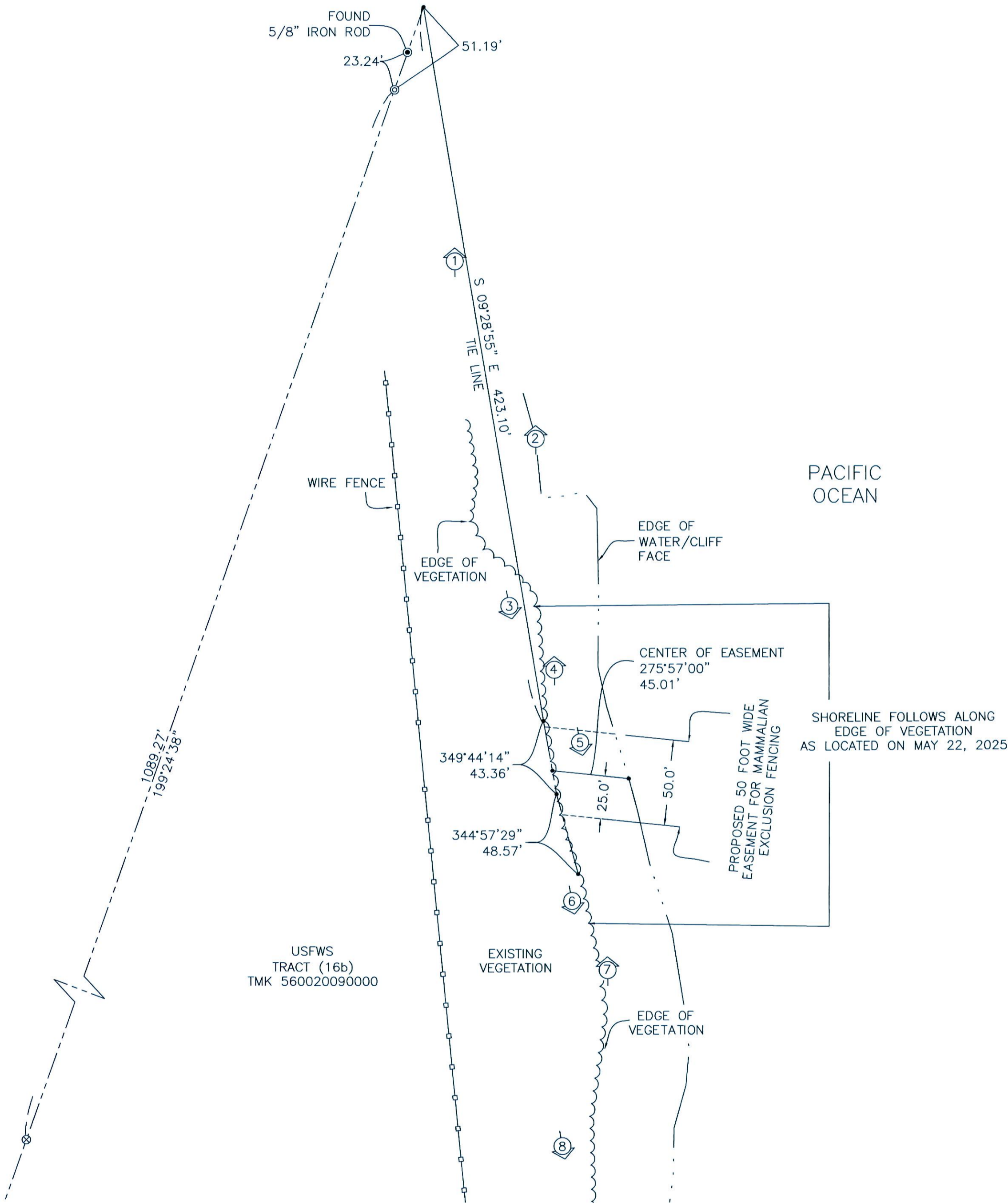


PHOTOGRAPHS TAKEN ON MAY 22, 2025 AT 2:00 P.M.



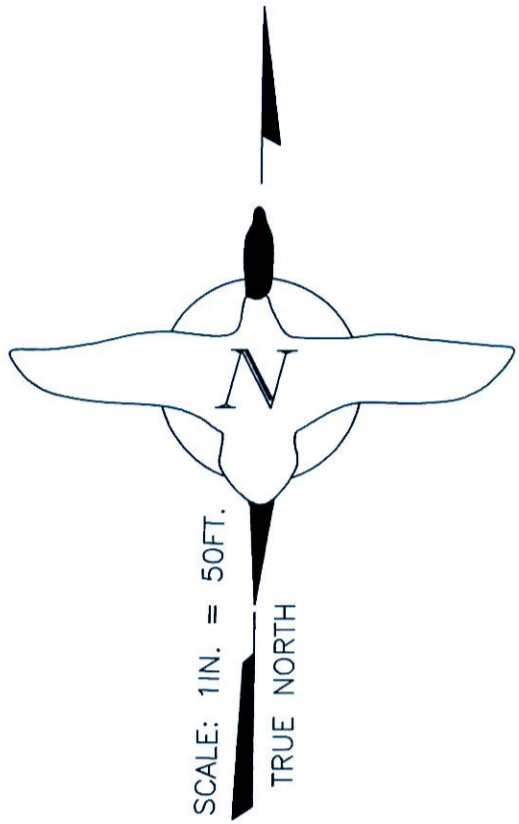
PIN FLAGS SHOW CENTERLINE OF PROPOSED 50 FOOT WIDE EASEMENT FOR MAMMALIAN EXCLUSION FENCE.



- NARRATIVE:
1. THE PURPOSE OF THIS SURVEY IS TO ESTABLISH A 50 FOOT WIDE RIGHT-OF-WAY ACROSS PUBLIC BEACH PROPERTY FOR THE PURPOSE OF CONSTRUCTING A MAMMALIAN EXCLUSION FENCE FOR THE PROTECTION OF NESTING BIRDS AND OTHER ANIMALS WITHIN THE JAMES CAMPBELL NATIONAL WILDLIFE REFUGE.
 2. THERE WILL BE A PUBLIC GATE ALONG MAMMALIAN EXCLUSION FENCE TO ALLOW FOR PUBLIC ACCESS TO THE BEACH.
 3. DIRECTION OF PHOTOGRAPHS TAKEN ON MAY 22, 2025 AT 2:00 P.M.
 4. RED LINE IN PHOTOS INDICATE LOCATED SHORELINE.
 5. SHORELINE AS SHOWN IS SUBJECT TO FINAL CERTIFICATION BY THE DEPARTMENT OF LAND AND NATURAL RESOURCES AS RECOMMENDED BY THE HAWAII STATE SURVEYOR.

SHORELINE SURVEY MAP

USFWS TRACT (16b)
BEING A PORTION OF LOT 28
AS SHOWN ON LAND COURT APPLICATION MAP 1095 MAP 4
DATED MAY 30, 2006
BEING PORTIONS OF DEED KAMEHAMEHA III TO CHARLES GORDON HOPKINS
DATED SEPTEMBER 10, 1851
Tax Map Key: (OAHU) 5-6-002-009
AT KAHUKU, KOOLAULO, HONOLULU, OAHU, HAWAII
FEE OWNER: U.S.A/U.S FISH AND WILDLIFE SERVICE
Address: 56-1069 KAMEHAMEHA HWY
HONOLULU, HAWAII



BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE IN GRID BEARINGS REFERENCED TO THE HAWAII STATE PLANE COORDINATE SYSTEM, ZONE 3, NAD83(2011), US SURVEY FEET. AT THIS SITE, GRID NORTH DIFFERS FROM TRUE NORTH BY A CONVERGENCE OF 01°02'09". THE ARROW ON THIS SHEET INDICATES TRUE NORTH.

0 50 100
SCALE: 1IN. = 50FT.


- LEGEND:
- CALCULATED POINT
 - FOUND 5/8" IRON ROD
 - ⊙ FOUND 1/2" IRON PIPE
 - ⊗ FOUND 3" ALUMINUM DISC "USFWS"

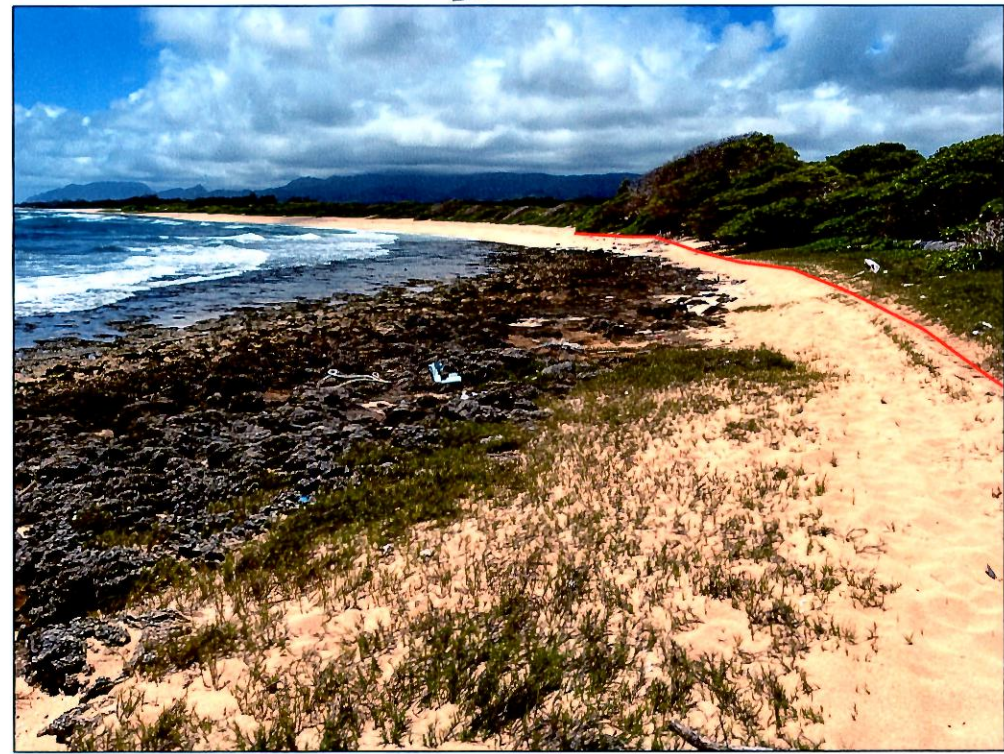
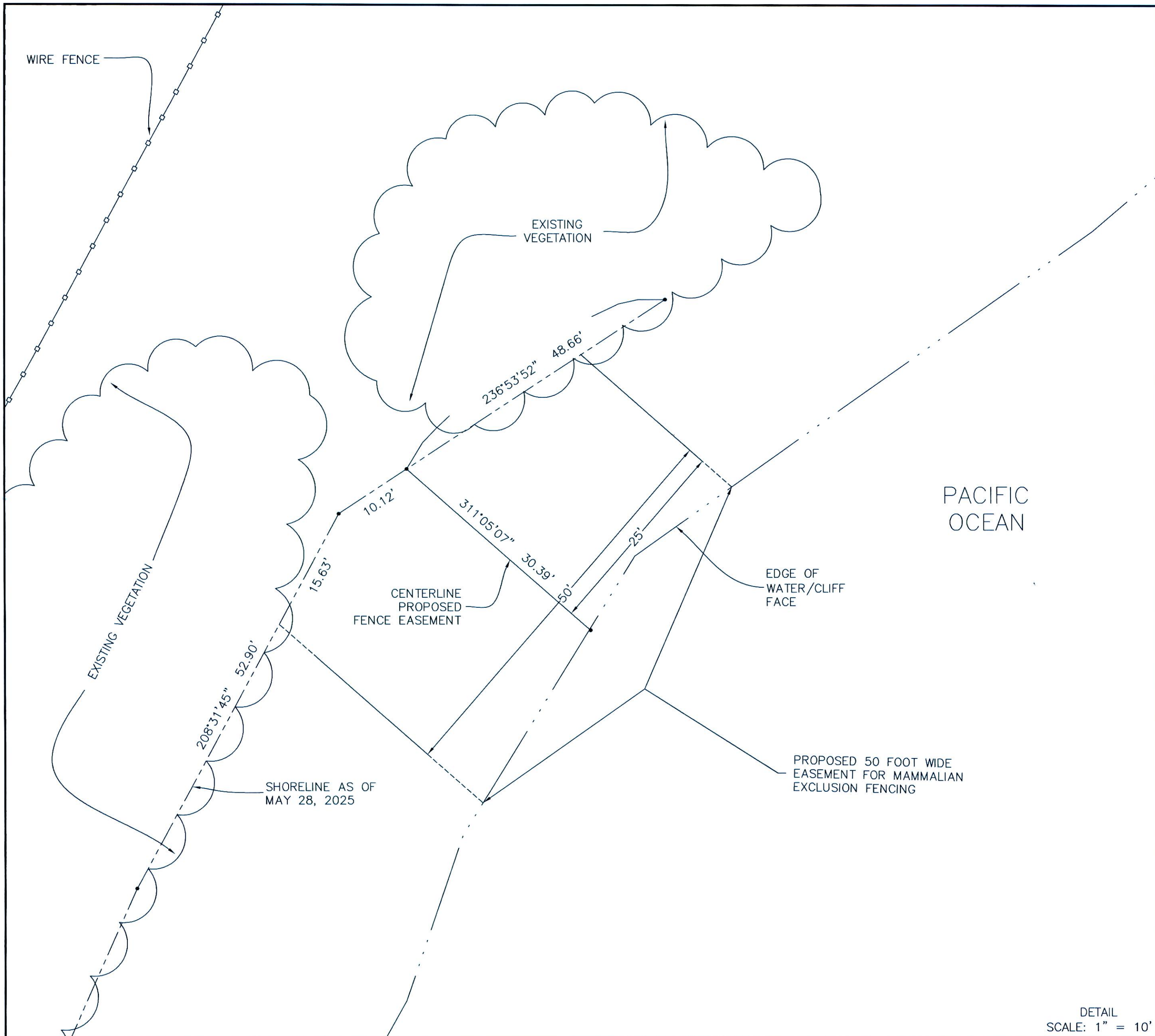
SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING AT THE REQUEST OF JAMES CAMPBELL NATIONAL WILDLIFE REFUGE, THIS ~~26TH~~ 26TH DAY OF ~~NOVEMBER~~ NOVEMBER 2025.

THIS SURVEY WAS PREPARED UNDER FEDERAL AUTHORITY AND IS EXEMPT FROM LICENSURE PER HI REV STAT § 464-3 (2024).

Kirk W. Norton
KIRK W. NORTON
USFWS REGIONAL LAND SURVEYOR

| | | |
|---|---|--------|
|  | U.S. FISH & WILDLIFE SERVICE PACIFIC REGION DIVISION OF REALTY 911 NE 11TH AVENUE PORTLAND, OR, 97267 | |
| SHORELINE SURVEY MAP | | |
| JAMES CAMPBELL NATIONAL WILDLIFE REFUGE HONOLULU COUNTY, O'AHU, HAWAII | | |
| DRAWN BY: K.W.N./A.L.M. | SCALE: 1" = 50' | SHEET |
| CHECKED: K.A.M. | DATE: NOVEMBER 2025 | 1 OF 1 |



PHOTOGRAPHS TAKEN ON MAY 22, 2025 AT 2:00 P.M.

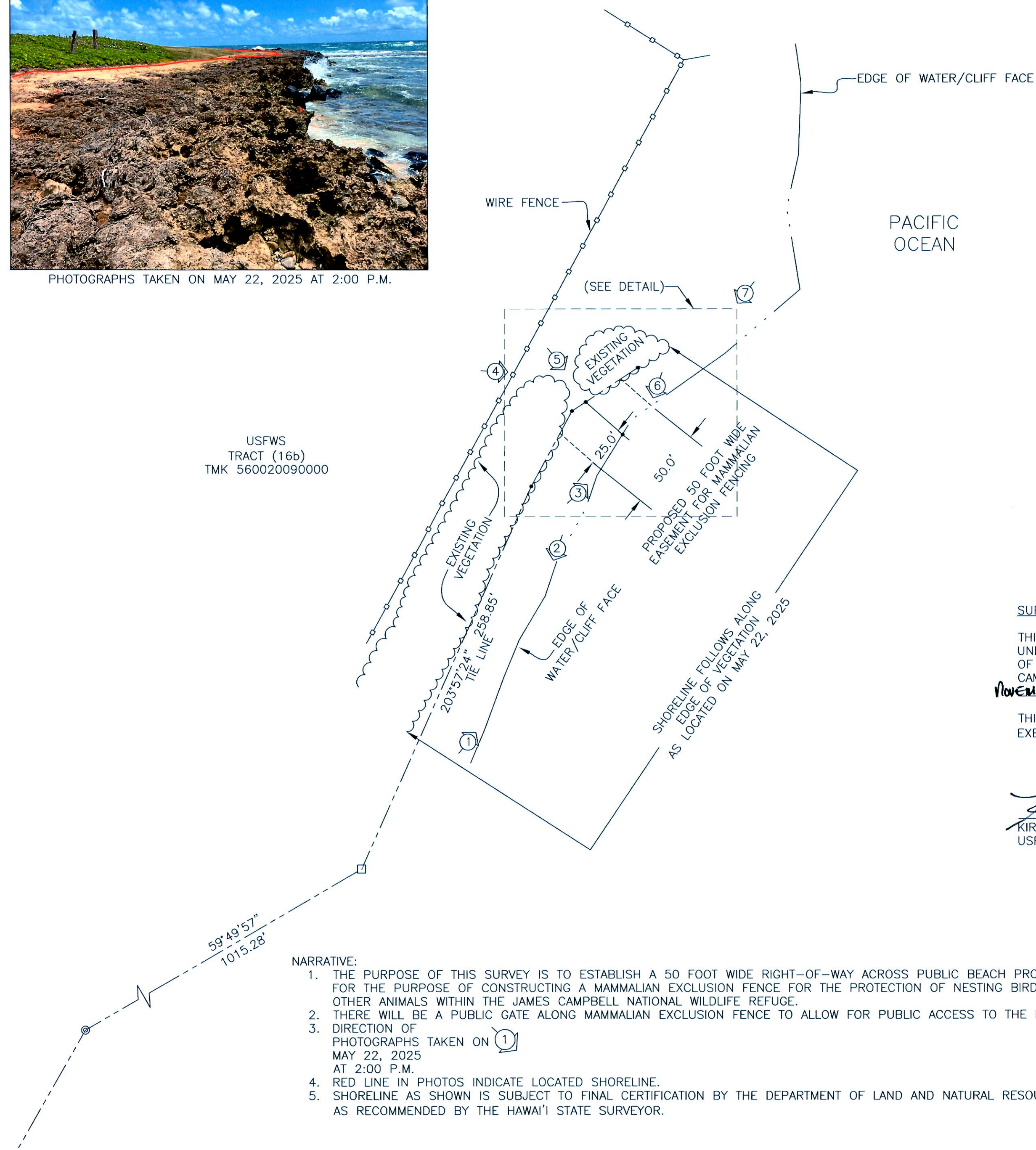


PIN FLAGS SHOW CENTERLINE OF PROPOSED 50 FOOT WIDE EASEMENT FOR MAMMALIAN EXCLUSION FENCE.



PHOTOGRAPHS TAKEN ON MAY 22, 2025 AT 2:00 P.M.

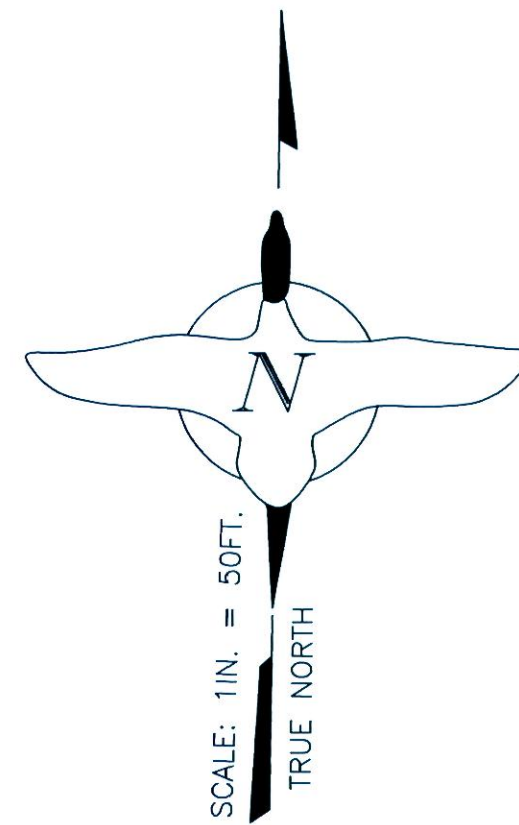
USFWS
TRACT (16b)
TMK 560020090000



NARRATIVE:
1. THE PURPOSE OF THIS SURVEY IS TO ESTABLISH A 50 FOOT WIDE RIGHT-OF-WAY ACROSS PUBLIC BEACH PROPERTY FOR THE PURPOSE OF CONSTRUCTING A MAMMALIAN EXCLUSION FENCE FOR THE PROTECTION OF NESTING BIRDS AND OTHER ANIMALS WITHIN THE JAMES CAMPBELL NATIONAL WILDLIFE REFUGE.
2. THERE WILL BE A PUBLIC GATE ALONG MAMMALIAN EXCLUSION FENCE TO ALLOW FOR PUBLIC ACCESS TO THE BEACH.
3. DIRECTION OF PHOTOGRAPHS TAKEN ON MAY 22, 2025 AT 2:00 P.M.
4. RED LINE IN PHOTOS INDICATE LOCATED SHORELINE.
5. SHORELINE AS SHOWN IS SUBJECT TO FINAL CERTIFICATION BY THE DEPARTMENT OF LAND AND NATURAL RESOURCES AS RECOMMENDED BY THE HAWAII STATE SURVEYOR.

SHORELINE SURVEY MAP

USFWS TRACT (16e)
BEING A PORTION OF LOT 1219
AS SHOWN ON LAND COURT APPLICATION MAP 1095 MAP 176
DATED MAY 30, 2006
BEING PORTIONS OF DEED KAMEHAMEHA III TO CHARLES GORDON HOPKINS
DATED SEPTEMBER 10, 1851
Tax Map Key: (OAHU) 5-6-002-041
AT KAHUKU, KOOLAULO, HONOLULU, OAHU, HAWAII
FEE OWNER: U.S.A./U.S. FISH AND WILDLIFE SERVICE
Address: 56-1069 KAMEHAMEHA HWY
HONOLULU, HAWAII



BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE IN GRID BEARINGS REFERENCED TO THE HAWAII STATE PLANE COORDINATE SYSTEM, ZONE 3, NAD83(2011), US SURVEY FEET.
AT THIS SITE, GRID NORTH DIFFERS FROM TRUE NORTH BY A CONVERGENCE OF 01°02'09".
THE ARROW ON THIS SHEET INDICATES TRUE NORTH.

0 50 100
SCALE: 1IN. = 50FT.

LEGEND:
• CALCULATED POINT
□ FOUND 1" X 1" SQUARE BAR
⊙ FOUND 1/2" IRON PIPE

SURVEYOR'S CERTIFICATE:

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING AT THE REQUEST OF JAMES CAMPBELL NATIONAL WILDLIFE REFUGE, THIS 26TH DAY OF NOVEMBER, 2025.

THIS SURVEY WAS PREPARED UNDER FEDERAL AUTHORITY AND IS EXEMPT FROM LICENSURE PER HI REV STAT § 464-3 (2024).

Kirk V. Norton
KIRK V. NORTON
USFWS REGIONAL LAND SURVEYOR



U.S. FISH & WILDLIFE
SERVICE
PACIFIC REGION
DIVISION OF REALTY
911 NE 11TH AVENUE
PORTLAND, OR, 97267

SHORELINE SURVEY MAP

JAMES CAMPBELL NATIONAL WILDLIFE REFUGE
HONOLULU COUNTY, OAHU, HAWAII

DRAWN BY: K.W.N./A.L.M. SCALE: 1" = 50' SHEET
CHECKED: K.A.M. DATE: NOVEMBER 2025 1 OF 1