

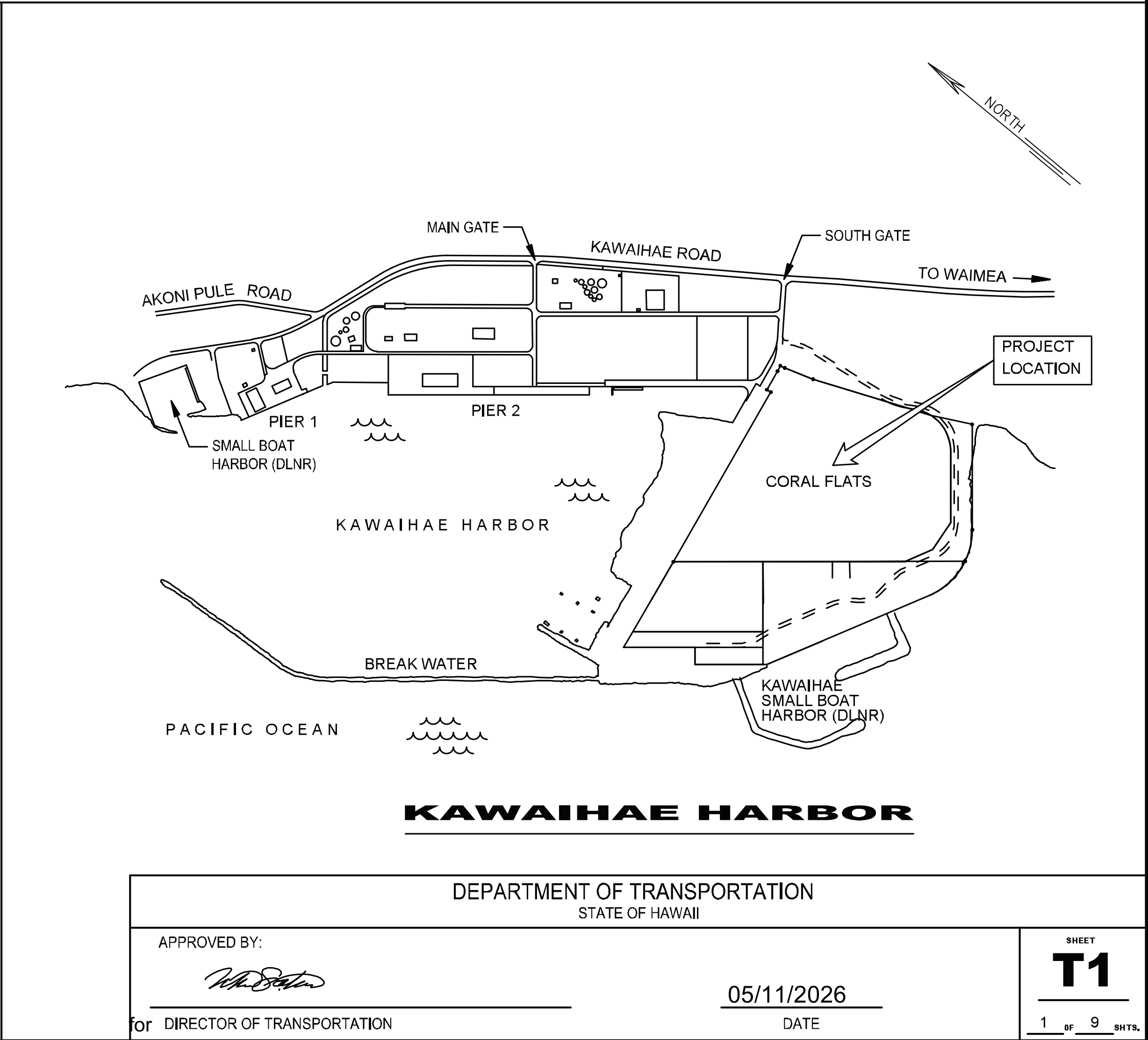
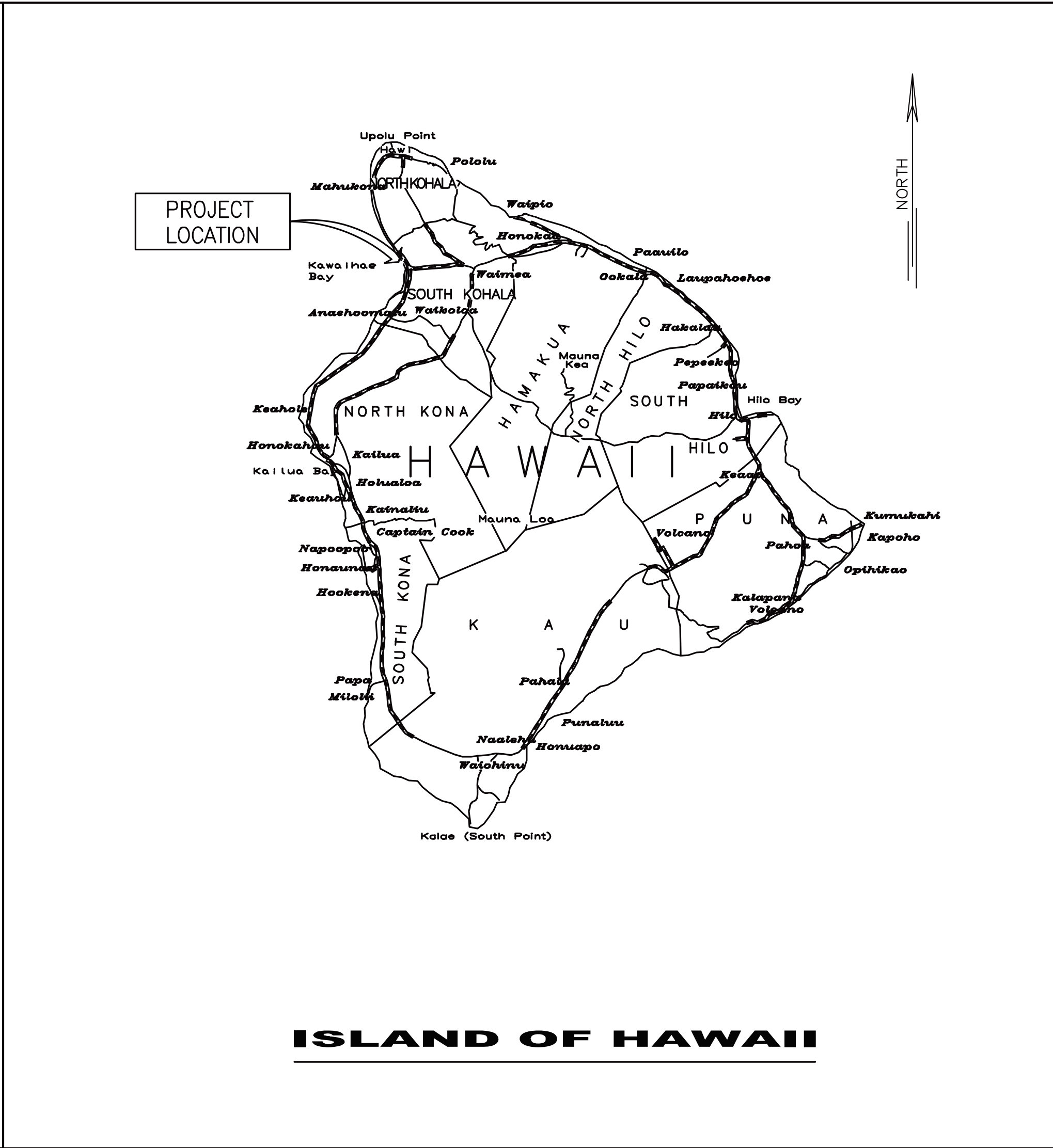
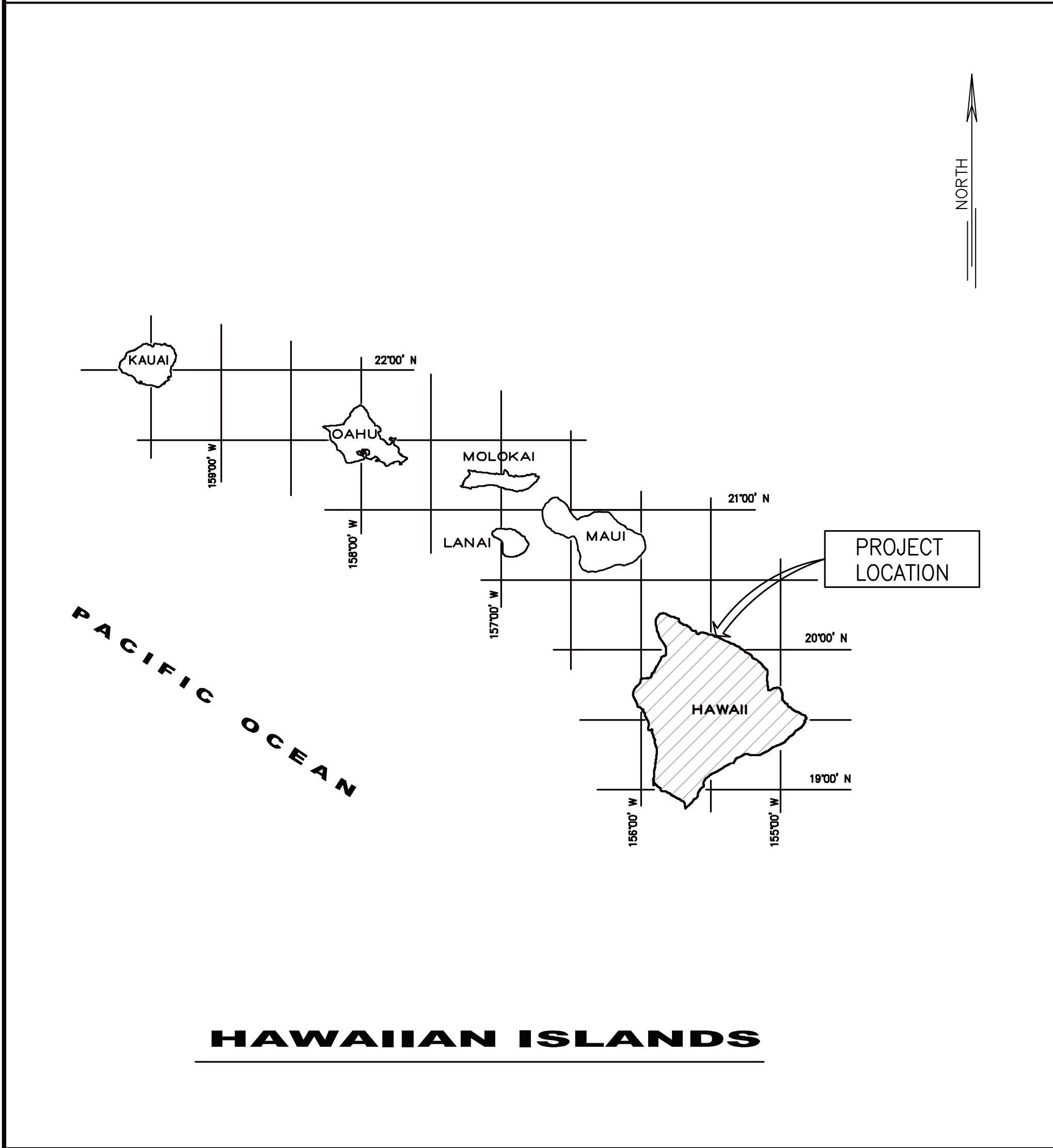
# GRADING CORAL FLATS

## KAWAIHAE HARBOR, HAWAII ISLAND

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HARBORS**

### S50214

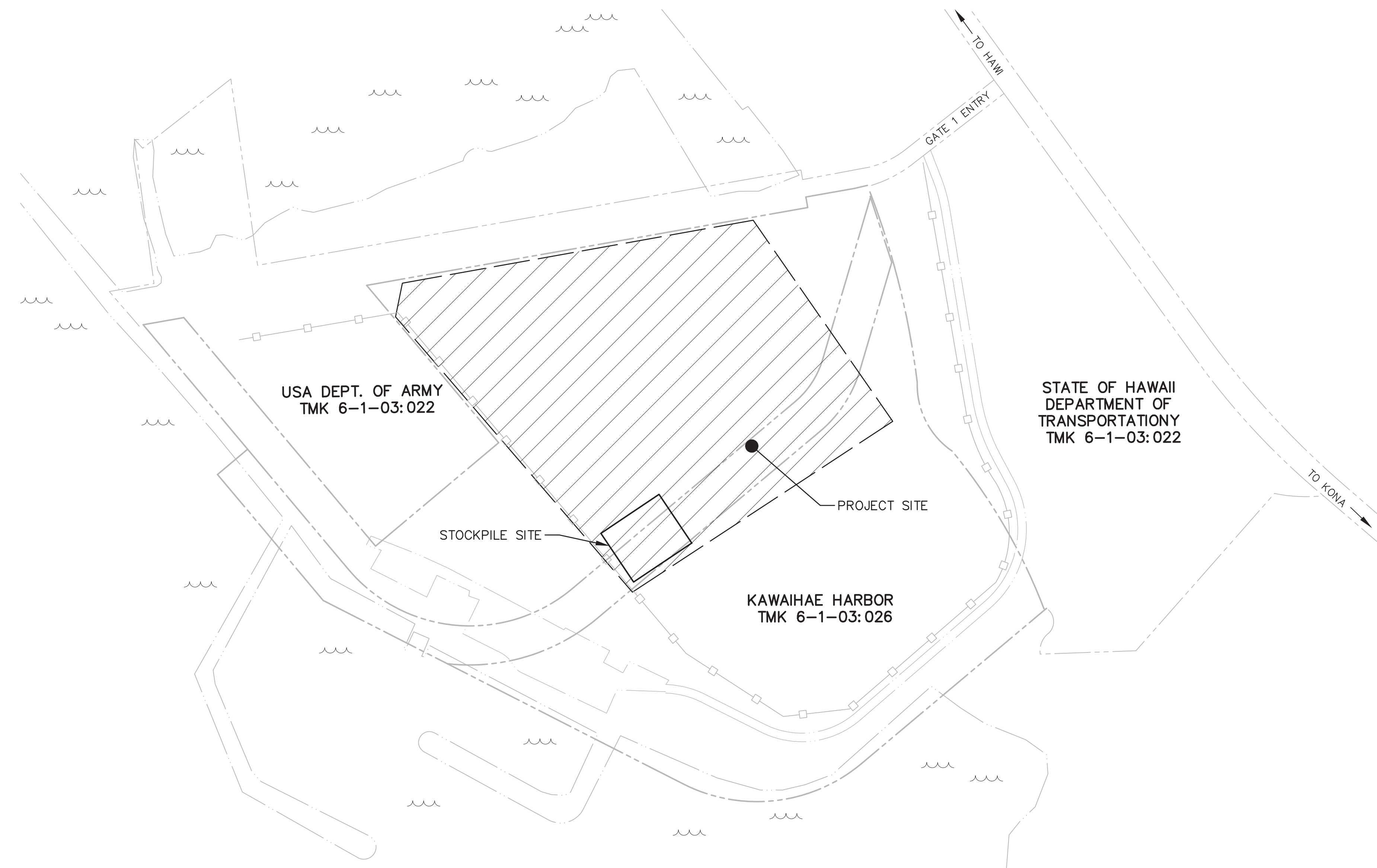
**CONSULTANTS:**  
**WESLEY R. SEGAWA & ASSOCIATES, INC.**  
CIVIL ENGINEER



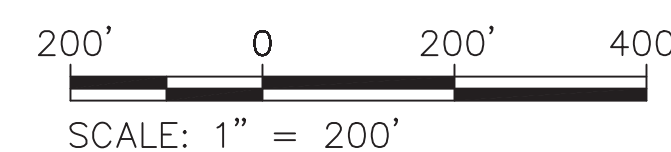
GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY AND COUNTY OF HONOLULU, DEPARTMENT OF PUBLIC WORKS "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPT. 1984, "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" DATED SEPT. 1986, "GENERAL PROVISIONS FOR CONSTRUCTION" DEPARTMENT OF TRANSPORTATION, DATED 2016, "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" DEPARTMENT OF TRANSPORTATION, DATED 2005, AND/OR "STANDARD PLANS", DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, DATED 2008.
2. CONTRACTOR SHALL VERIFY CONDITIONS IN FIELD PRIOR TO BIDDING. EXISTING CONDITIONS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL MAKE NO CLAIM FOR EXTRA COMPENSATION SHOULD ACTUAL EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO ORDERING MATERIALS. SEE THE SPECIFICATIONS.
3. CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCY OR CONFLICT FOUND IN THE FIELD PRIOR TO OR DURING THE COURSE OF CONSTRUCTION AND SHALL NOT PROCEED WITH CONSTRUCTION UNTIL THE OWNER RESOLVES THE SAID DISCREPANCY OR CONFLICT.
4. THE STRUCTURES, UTILITIES AND EQUIPMENT SHOWN ON THE SITE PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL EXERCISE CAUTION TO PREVENT DAMAGE TO THESE EXISTING FACILITIES THROUGHOUT THE PROJECT SITE.
5. WORK SHALL BE COORDINATED WITH THE HARBORS HAWAII DISTRICT MANAGER AND THE HARBORS CONSTRUCTION ENGINEER AND SHALL BE SUBJECT TO THEIR APPROVAL. ALL WORK SHALL BE SCHEDULED TO MINIMIZE INTERFERENCE WITH ANY OPERATIONS IN THE PROJECT AREA. THE EXACT SCHEDULING OF THE WORK AND RESTRICTIONS ON THE CONTRACTOR'S ACTIVITIES WILL BE ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.
6. THE CONTRACTOR SHALL COMPLY WITH THE CLEAN WATER ACT AND THE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS STORMWATER MANAGEMENT PROGRAM. NO POLLUTANTS ARE ALLOWED TO BE DISCHARGED DIRECTLY OR INDIRECTLY THROUGH THE HARBORS SMALL MS4 OR OTHER POTENTIAL PATHWAYS INTO ADJACENT HARBOR WATERS.
7. THE CONTRACTOR WILL BE RESPONSIBLE FOR REGULATORY FINES OR PENALTIES THAT MAY BE IMPOSED BY ENVIRONMENTAL, REGULATORY AGENCIES (EPA AND/OR STATE DOH) IN THE EVENT OF VIOLATIONS.
8. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC BEST MANAGEMENT PRACTICE (BMP) PLAN TO HARBORS CONSTRUCTION ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO THE START OF ANY CONSTRUCTION WORK. THE SITE-SPECIFIC BMP PLAN SHALL COMPLY WITH THE TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL ARTICLE IN THE SPECIFICATIONS AND PROPOSAL.
9. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION OR BETTER, ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, CONCRETE WALKWAYS, EMBANKMENTS, CURBS, DRAINS, FENCES, LANDSCAPING AND OTHER IMPROVEMENTS.
10. ALL STRUCTURES AND PORTIONS OF STRUCTURES SHOWN ON THE PLANS ARE EXISTING UNLESS SPECIFICALLY NOTED. CLEAR WITH HAWAII ONE CALL CENTER (HOCC) BEFORE EXCAVATION (811) OR (866-427-7287).
11. UNLESS OTHERWISE NOTED, ALL EXISTING PAVEMENT, UTILITY LINES AND OTHER IMPROVEMENTS WITHIN THE CITY, COUNTY OR STATE RIGHT-OF-WAY THAT ARE DAMAGED OR UNDERMINED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO MATCH OR BETTER THAN EXISTING CONDITIONS.
12. IN CASE OF SPILL, LEAK, OR OTHER RELEASE CONTAINING A HAZARDOUS SUBSTANCE OR OIL, THE CONTRACTOR SHALL NOTIFY APPROPRIATE FACILITY PERSONNEL, EMERGENCY RESPONSE AGENCIES, AND REGULATORY AGENCIES FOLLOWING NOTIFICATION PROCEDURES, AND SHALL NOTIFY HARBORS ENVIRONMENTAL HOTLINE (808-587-1962) AND DESIGNATED CONSTRUCTION ENGINEER IMMEDIATELY (I.E. WITHIN 24-HOURS). SUCH CONTACT INFORMATION MUST BE SHOWN IN LOCATIONS THAT ARE READILY ACCESSIBLE AND AVAILABLE.
13. THE CONTRACTOR SHALL NOT PERFORM ANY CONSTRUCTION ACTIVITY SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATER COURSES. SHOULD SUCH VIOLATIONS OCCUR, THE COSTS INCURRED FOR ANY REMEDIAL ACTION BY THE OWNER SHALL BE PAYABLE BY THE CONTRACTOR.
14. PARCEL BONDARIES SHOWN ON PLANS WERE TRANSLATED FROM GOVERNMENT EXECUTIVE ORDER 1904 AND 2142. AZIMUTHS ARE REFERRED TO GOVERNMENT SURVEY TRIANGULATION STATION, "KAWAIHAE BREAKWATER."
15. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
16. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICATION PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS OF THE PUBLIC HEALTH REGULATIONS OF THE STATE DEPARTMENT OF HEALTH AND THE COUNTY'S GRADING ORDINANCE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND TITLE 11, CHAPTER 55, "WATER POLLUTION."
18. IF DEWATERING OPERATIONS IS REQUIRED, THE CONTRACTOR SHALL DISPOSE THE WATER AT AN APPROVED WASTEWATER TREATMENT PLANT. IF THE CONTRACTOR ELECTS TO DISCHARGE DEWATERING EFFLUENT INTO STATE WATERS OR EXISTING DRAINAGE SYSTEMS, OBTAIN AUTHORIZATION VIA A NOTICE OF GENERAL PERMIT COVERAGE (NGPC) FROM HAWAII DEPARTMENT OF HEALTH - CLEAN WATER BRANCH.

| SHEET NO. | DRAWING NO. | DESCRIPTION                                    |
|-----------|-------------|--|
| 1         | T1          | TITLE SHEET                                    |
| 2         | C1          | GENERAL NOTES, DRAWING INDEX, PROJECT SITE MAP |
| 3         | C2          | EROSION AND SEDIMENT CONTROL PLAN              |
| 4         | C3          | BMP DETAILS                                    |
| 5         | C4          | SITE GRADING PLAN                              |
| 6         | C5          | CROSS SECTIONS STA 10+00 TO STA 12+00          |
| 7         | C6          | CROSS SECTIONS STA 13+00 TO STA 15+00          |
| 8         | C7          | CROSS SECTIONS STA 16+00 TO STA 18+00          |
| 9         | C8          | CROSS SECTIONS STA 19+00 TO STA 21+00          |



PROJECT SITE MAP

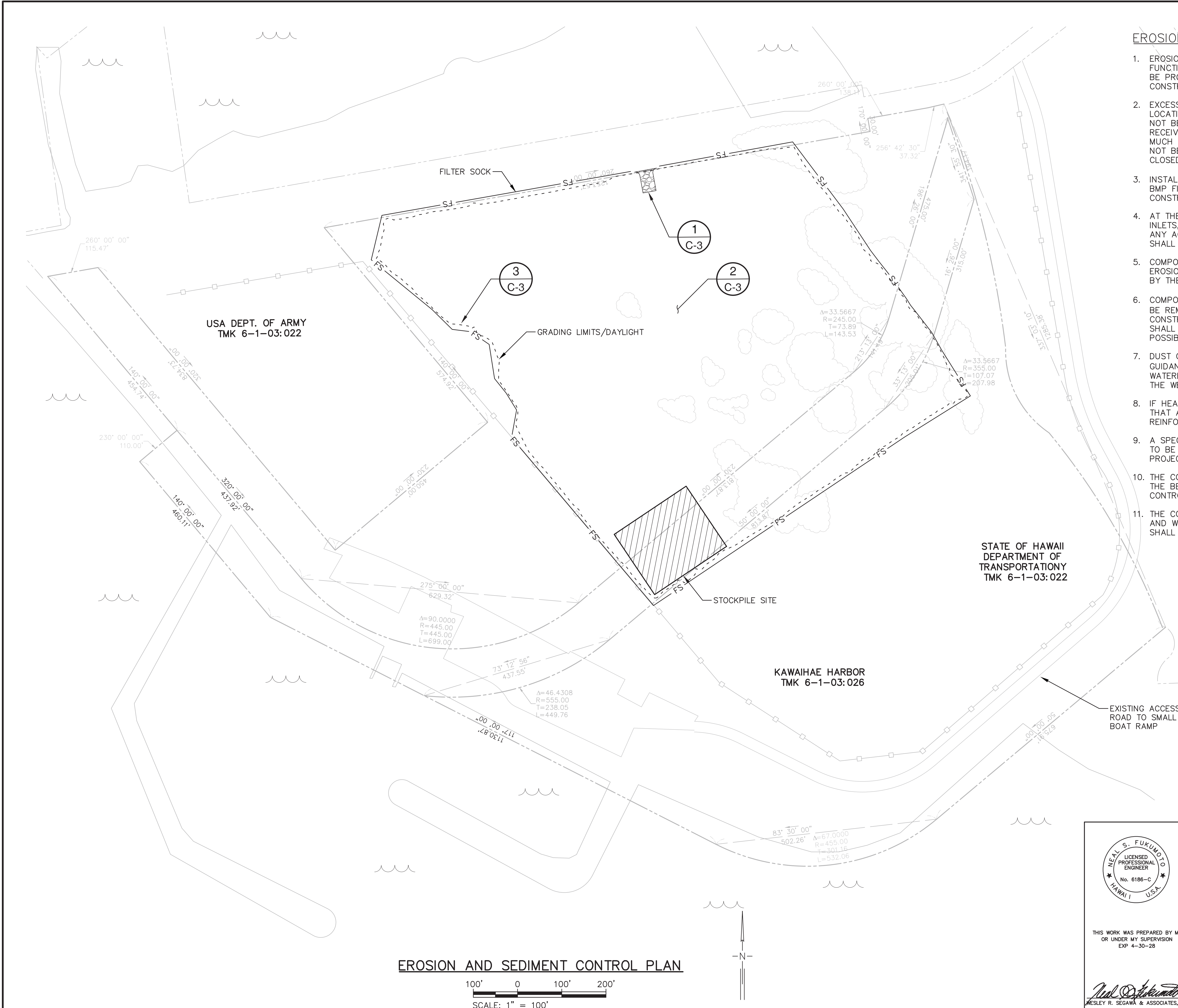


TRUE NORTH

|   |  |      |             |    |              |
|---|--|------|-------------|----|--------------|
| <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION EXP 4-30-28</p> <p><i>S. Fukumoto</i><br/>WESLEY R. SEGAWA &amp; ASSOCIATES, INC.</p> | REV  | DATE | DESCRIPTION | BY | APPROVED     |
|   | <p>STATE OF HAWAII<br/><b>DEPARTMENT OF TRANSPORTATION</b><br/><b>HARBORS</b></p> <p>JOB TITLE<br/><b>GRADING CORAL FLATS,<br/>KAWAIHAE HARBOR,<br/>HAWAII ISLAND, HAWAII</b></p> <p>SHEET TITLE<br/><b>GENERAL NOTES, DRAWING INDEX, PROJECT SITE MAP</b></p> |      |             |    |              |
| DESIGNED BY: CC   | JOB NUMBER   |      |             |    | SHEET        |
| DRAWN BY: RT  | <b>S50214</b>  |      |             |    | <b>C1</b>    |
| CHECKED BY: NF  | DATE: APRIL 2026   |      |             |    | 2 OF 9 SHTS. |
| SCALE: AS NOTED   |  |      |             |    |              |

**EROSION AND SEDIMENT CONTROL NOTES:**

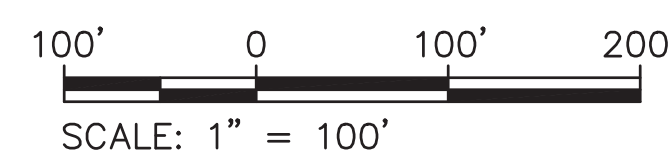
1. EROSION, SEDIMENT, AND DUST CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK IS INITIATED. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
2. EXCESS MATERIALS FROM GRADING OPERATIONS SHALL BE STOCKPILED ON A LOCATION APPROVED BY THE HARBORS CONSTRUCTION ENGINEER. IT SHALL NOT BE CLOSE TO THE DIRECTION OF STORM WATER RUNOFF FLOW INTO STATE RECEIVING WATERS. STOCKPILING AREAS SHALL BE KEPT TO A MINIMUM AS MUCH AS POSSIBLE. TRASH DUMPSTERS SHALL BE LEAK PROOF AND SHALL NOT BE OVERFILLED TO THE LEVEL WHERE THEIR COVERS CANNOT BE FULLY CLOSED.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT PER HDOT CONSTRUCTION BMP FIELD MANUAL. THE LOCATION SHALL BE APPROVED BY THE HARBORS CONSTRUCTION ENGINEER.
4. AT THE END OF GRADING OPERATIONS, EXISTING DRYWELLS AND GRATED INLETS, IF ANY, SURROUNDING THE PROJECT SITE SHALL BE INSPECTED AND ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND IN THE DRAIN STRUCTURES SHALL BE REMOVED.
5. COMPOST FILTER SOCK LAYOUTS ARE SHOWN AS A GUIDE OR SUGGESTION FOR EROSION AND SEDIMENT CONTROL, AND THE LOCATION SHALL BE APPROVED BY THE HARBORS CONSTRUCTION ENGINEER.
6. COMPOST FILTER SOCKS AT THE CONSTRUCTION SITE ENTRANCE/EXIT SHALL BE REMOVED AND REPLACED AS CONSTRUCTION VEHICLES ENTER/EXIT THE CONSTRUCTION SITE. IF ANY FILTER SOCK IS DRIVEN OVER, THE FILTER SOCK SHALL BE INSPECTED, REPAIRED, AND MOVED BACK IN PLACE AS SOON AS POSSIBLE.
7. DUST CONTROL MEASURES MUST BE PROVIDED. SEE ADDITIONAL NOTES AND GUIDANCE ON DETAIL 2 ON SHEET C3. GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND FOR THE WEEKEND AND HOLIDAYS.
8. IF HEAVY RAIN ARE PROJECTED DURING A WORKDAY, ALL CONTROL MEASURES THAT ARE A PART OF THIS PROJECT WILL BE INSPECTED IMMEDIATELY AND REINFORCED AS NECESSARY.
9. A SPECIFIC INDIVIDUAL APPOINTED BY THE CONTRACTOR SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION, SEDIMENT, AND DUST CONTROLS ON THIS PROJECT.
10. THE CONTRACTOR SHALL TRAIN THEIR EMPLOYEES AND SUBCONTRACTORS ON THE BEST MANAGEMENT PRACTICES FOR EROSION, SEDIMENT, AND DUST CONTROL.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESPONDING TO FUGITIVE DUST AND WATER BORN SILT COMPLAINTS FROM NEIGHBORING PROPERTIES AND SHALL PROVIDE ADDITIONAL MITIGATION MEASURES AS NECESSARY.



**LEGEND**

|  |   |
|--|---|
|  | STABILIZED CONSTRUCTION ENTRANCE/EXIT       |
|  | COMPOST FILTER SOCK LINING                  |
|  | GRADING LIMITS/DAYLIGHT                     |
|  | VEGETATION TREES AND SHRUBS (TO BE REMOVED) |

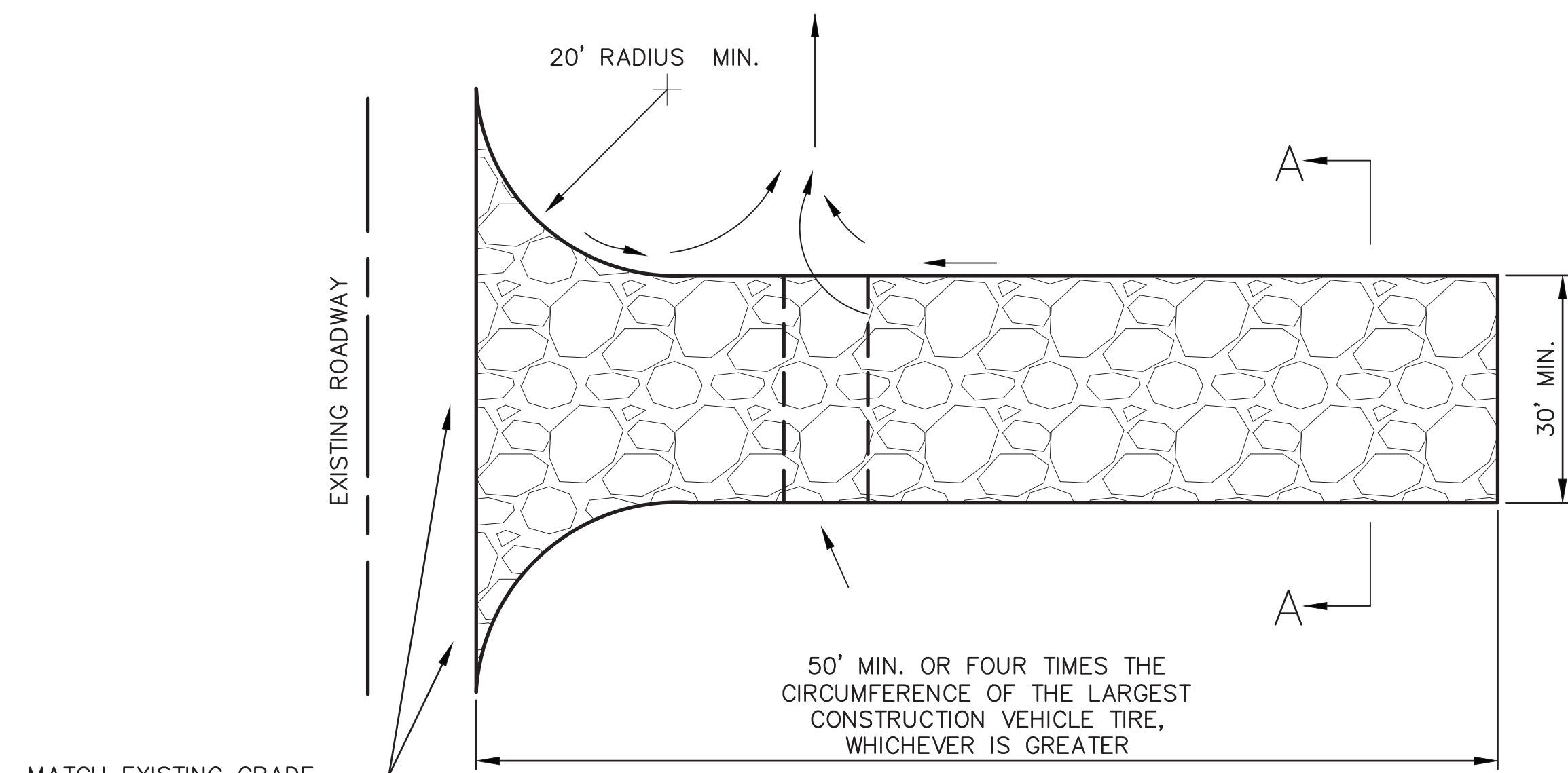
**EROSION AND SEDIMENT CONTROL PLAN**



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
EXP 4-30-28

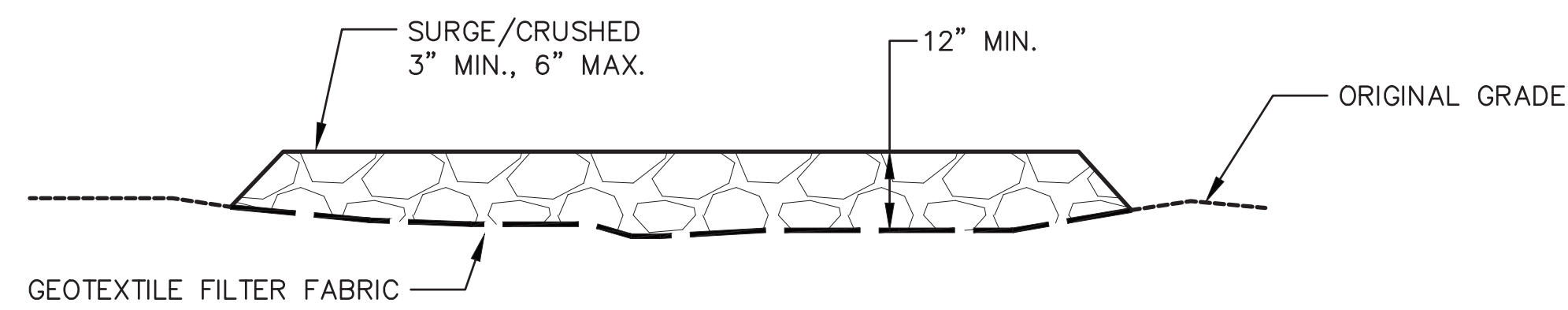
*Neal S. Fukumoto*  
NEALEY R. SEGAWA & ASSOCIATES, INC.

| REV  | DATE | DESCRIPTION                  | BY | APPROVED     |
|--|------|------------------------------|----|--------------|
| STATE OF HAWAII<br><b>DEPARTMENT OF TRANSPORTATION<br/>HARBORS</b>                       |      |                              |    |              |
| <b>JOB TITLE<br/>GRADING CORAL FLATS,<br/>KAWAIHAE HARBOR,<br/>HAWAII ISLAND, HAWAII</b> |      |                              |    |              |
| <b>SHEET TITLE<br/>EROSION AND SEDIMENT CONTROL PLAN</b>                                 |      |                              |    |              |
| DESIGNED BY: CC  |      |                              |    | <b>C2</b>    |
| DRAWN BY: RT   |      |                              |    |              |
| CHECKED BY: NF   |      |                              |    |              |
| DATE: APRIL 2026   |      |                              |    |              |
| SCALE: AS NOTED  |      | <b>JOB NUMBER<br/>S50214</b> |    | 3 OF 9 SHTS. |



MATCH EXISTING GRADE  
AVOID ROADSIDE RUNOFF  
FLOWING INTO PROJECT  
SITE

PLAN VIEW

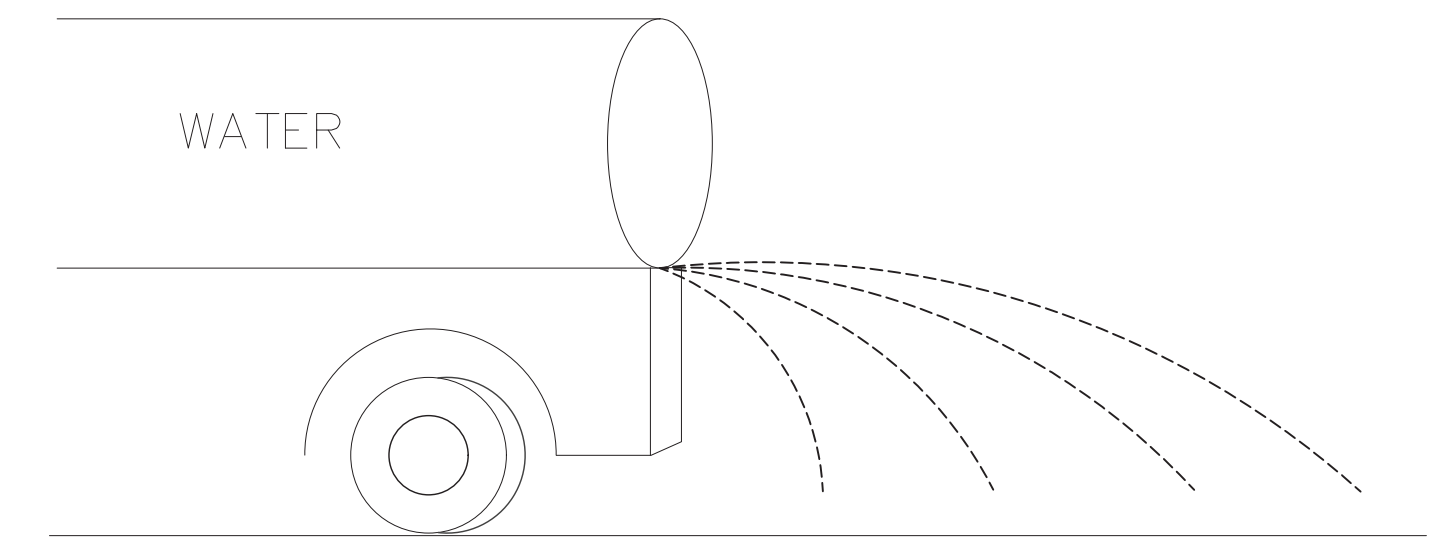


SECTION A-A

1 STABILIZED CONSTRUCTION ENTRANCE/EXIT  
C2 SCALE: NTS

NOTE:

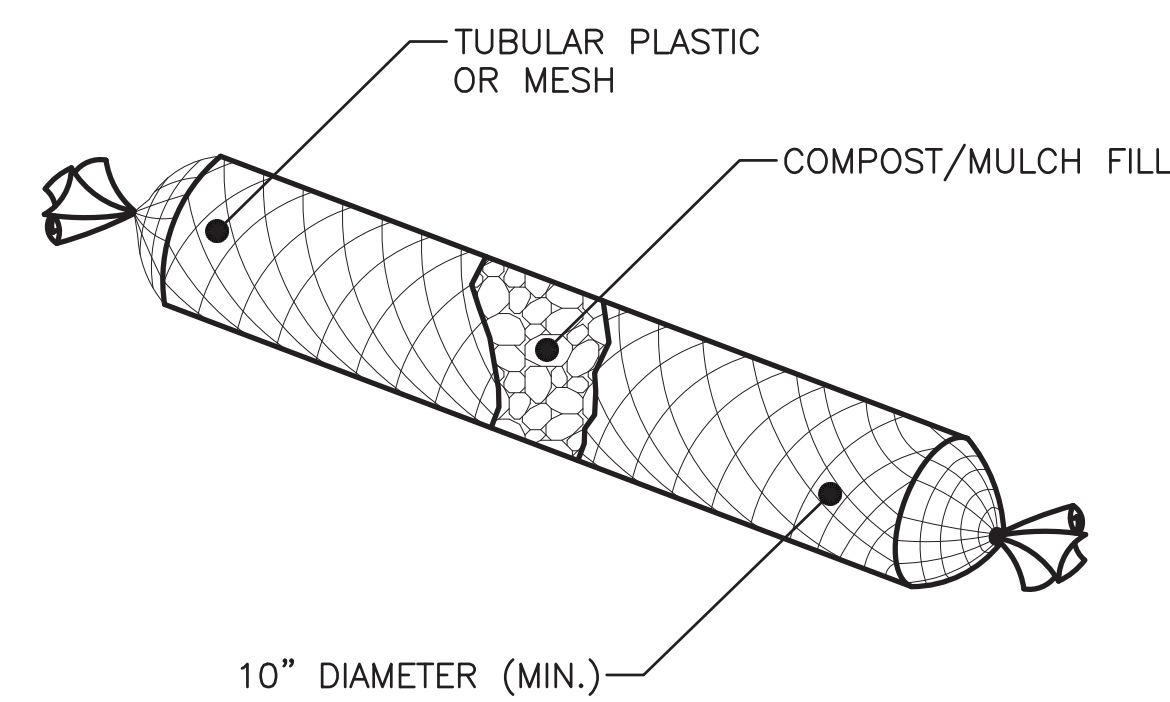
1. SEDIMENT TRACKED ONTO ADJACENT ROADWAY OR PAVED AREAS SHALL BE REMOVED BY THE END OF THE SAME DAY THAT THE TRACKING OCCURRED OR IMMEDIATELY WHEN SEDIMENT IS TRACKED MORE THAN 50 FEET FROM THE CONSTRUCTION ENTRANCE/EXIT, WHICHEVER OCCURS SOONER.
2. IF THE CONSTRUCTION EXIT IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO THE PAVEMENT, CONSIDER INCREASING THE DIMENSIONS OF THE ENTRANCE, AND/OR INSTALLING A TIRE WASH.
3. REPLENISH AGGREGATE PERIODICALLY.
4. UPON PROJECT COMPLETION, REMOVE ALL CONSTRUCTION ENTRANCES AND EXITS AND RESTORE THE AREA IN ACCORDANCE WITH THE SITE AND GRADING PLAN.



NOTES:

1. DUST CONTROL SHALL BE USED ON ALL EXPOSED SOILS OR ANY CONSTRUCTION ACTIVITY GENERATING DUST. DUST CONTROL SHALL APPLY TO THE FOLLOWING:
  - A. CLEARING, GRUBBING, AND GRADING;
  - B. CONSTRUCTION VEHICULAR TRAVEL ON UNPAVED ROADS;
  - C. DRILLING AND BLASTING;
  - D. SEDIMENT TRACKING ONTO PAVED ROADS;
  - E. SOIL AND DEBRIS STOCKPILES;
  - F. FINAL GRADING/SITE STABILIZATION.
  - H. UNSTABLE SOIL AREAS.
2. MINIMIZE EXPOSED AREAS THROUGH THE SCHEDULE OF CONSTRUCTION ACTIVITIES.
3. UTILIZE VEGETATION, MULCHING, SPRINKLING, AND STONE/GRAVEL LAYERING TO QUICKLY STABILIZE EXPOSED SOIL. OIL MAY NOT BE USED FOR DUST CONTROL SINCE THE OIL MAY DISCHARGE INTO A DRAINAGEWAY OR SEEP INTO SOIL.
4. LIMIT USE OF DUST SUPPRESSION CHEMICALS AS THEY MAY CAUSE SOIL TO BE WATER REPELLENT RESULTING IN INCREASED RUNOFF AND MAY INTERFERE WITH LONG-TERM INFILTRATION AND THE VEGETATION/RE-VEGETATION OF THE SITE.
5. ANTICIPATE THE PREVAILING WIND DIRECTION TO MINIMIZE THE AMOUNT OF DUST GENERATED.
6. DO NOT OVER-SPRAY WATER FOR DUST CONTROL PURPOSES. EROSION MAY RESULT FROM OVERWATERING.
7. WATER SHOULD BE APPLIED BY MEANS OF PRESSURE-TYPE DISTRIBUTORS OR PIPELINES EQUIPPED WITH A SPRAY SYSTEM OR HOSES AND NOZZLES THAT WILL ENSURE EVEN DISTRIBUTION.
8. ALL WATER DISTRIBUTION EQUIPMENT SHOULD BE EQUIPPED WITH A POSITIVE MEANS OF SHUTOFF.
9. UNLESS WATER IS APPLIED BY MEANS OF PIPELINES, AT LEAST ONE MOBILE UNIT SHOULD BE AVAILABLE AT ALL TIMES TO APPLY WATER OR DUST PALLIATIVE TO THE PROJECT.
10. PROVIDE COVERS FOR HAUL TRUCKS TRANSPORTING MATERIALS THAT CONTRIBUTE TO DUST.
11. DUST CONTROL MEASURES REQUIRE DAILY INSPECTIONS OF ALL AREAS TO CHECK COVERAGE.

2 DUST CONTROL  
C2 SCALE: NTS



NOTE:

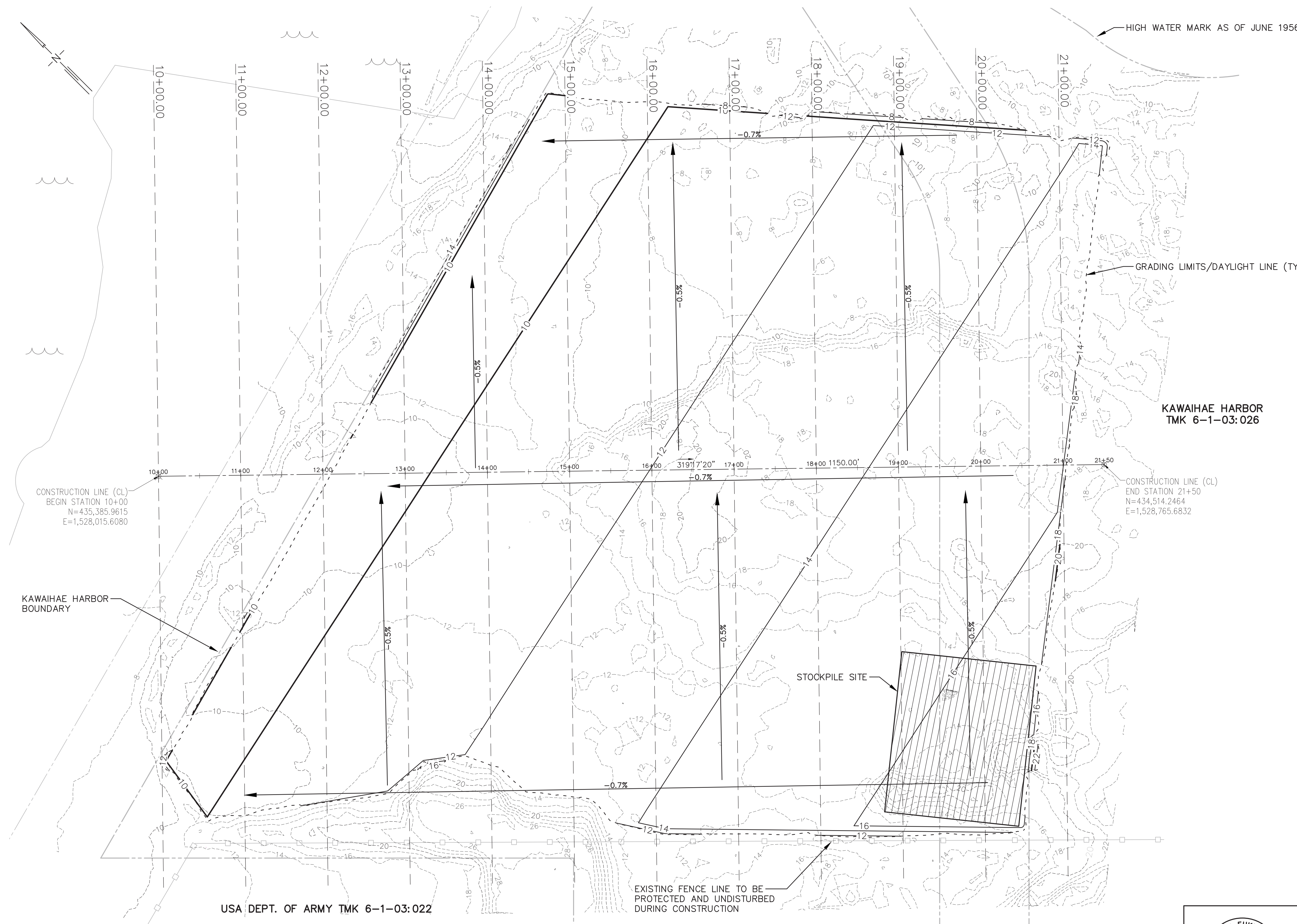
1. COMPOST FILTER SOCK SHALL BE "BIOSOCK" COMPOST FILTER (BY BIOSOCKS HAWAII INC.) OR PRE-APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. COMPOST FILTER SOCK SHALL NOT CONTAIN BIOSOLIDS AND SHALL BE CONSISTENT WITH EPA GUIDELINES.
3. STAKING, WHERE REQUIRED, SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. MINIMUM OVERLAP (TYP.) SHALL BE 6" ON THE HORIZONTAL PLANE UNLESS SPECIFIED ELSEWHERE.
5. IF THE COMPOST FILTER SOCK BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE COMPOST FILTER SOCK MUST BE REMOVED, CLEANED, AND REPLACED.

3 COMPOST FILTER SOCK DETAIL  
C2 SCALE: NTS

|  |   |      |             |               |          |
|--|---|------|-------------|---------------|----------|
| <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION<br/>EXP 4-30-28</p> <p><i>Neal S. Fukumoto</i><br/>WESLEY R. SEGAWA &amp; ASSOCIATES, INC.</p> | REV   | DATE | DESCRIPTION | BY            | APPROVED |
|  | STATE OF HAWAII<br><b>DEPARTMENT OF TRANSPORTATION</b><br><b>HARBORS</b>                                    |      |             |               |          |
|  | <b>JOB TITLE</b><br><b>GRADING CORAL FLATS,</b><br><b>KAWAIIHAE HARBOR,</b><br><b>HAWAII ISLAND, HAWAII</b> |      |             |               |          |
|  | <b>SHEET TITLE</b><br><b>BMP DETAILS</b>  |      |             |               |          |
|  | DESIGNED BY: CC   |      |             |               | SHEET    |
| DRAWN BY: RT   |   |      |             | <b>C3</b>     |          |
| CHECKED BY: NF   |   |      |             | 4 OF 9 SHTS.  |          |
| DATE: APRIL 2026   | <b>JOB NUMBER</b>   |      |             | <b>S50214</b> |          |
| SCALE: AS NOTED  |   |      |             |               |          |

CLEARING, GRUBBING, AND GRADING NOTES:

- EXISTING GRADES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH GRADING WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED IN THE EXISTING GRADES OR DIMENSIONS GIVEN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE HARBORS CONSTRUCTION ENGINEER BEFORE PROCEEDING FURTHER WITH ANY WORK, OTHERWISE THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY COST INVOLVED IN CORRECTION OF CONSTRUCTION PLACED DUE TO SUCH DISCREPANCIES.
- WHERE APPLICABLE, THE MEASURES TO CONTROL EROSION, SEDIMENT, AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY GRADING IS INITIATED.
- THE LIMITS OF THE GRADED AREA SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK. THE CONTRACTOR SHALL NOTIFY THE HARBORS CONSTRUCTION ENGINEER TWO DAYS BEFORE THE CONTRACTOR OR THE CONTRACTOR'S AGENT BEGINS ANY GRADING, GRUBBING, OR STOCKPILING.
- BEFORE CLEARING, GRUBBING, OR GRADING WORK, COORDINATE WITH HARBORS CONSTRUCTION ENGINEER AND OBTAIN APPROVAL FOR THE REMOVAL OF ANY HARBORS OBJECTS AND ITEMS WITHIN THE GRADING LIMITS.
- REMOVE ALL TREES WITHIN THE GRADING LIMITS. ALL ROOT BALLS SHALL BE REMOVED, IN CONJUNCTION WITH TREE REMOVAL.
- PROPOSED CUT SLOPES SHALL BE 2H:1V AND FILL SLOPES SHALL BE 3H:1V AND MATCH EXISTING GROUND WITHIN THE HARBORS PROPERTY LINE.
- SLOPE ARROW LABELS SHOW THE DOWNHILL DIRECTION AND THE PROPOSED GRADES.
- ALL GRADED MATERIAL SHALL BE USED FROM THE EXISTING MATERIALS ON SITE. FINAL GRADES SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY.
- THE CONTRACTOR SHALL REMOVE ALL VEGETATION, PLUS UNSUITABLE AND DELETERIOUS MATERIALS.
- APPROXIMATE EARTHWORK QUANTITIES ARE PROVIDED ON THIS SHEET, BUT THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES.
- EXCAVATED SOILS AND ROCKS, GRUBBED MATERIAL, EXCESS SOILS FROM GRADING ACTIVITIES, AND DEMOLISHED MATERIALS MAY BE TEMPORARILY TRANSFERRED TO THE STOCKPILING AREAS, PROVIDED IT IS WITHIN THE PROPERTY BOUNDARY. NO SOIL AND MATERIALS SHALL BE TRANSPORTED OFF PROPERTY WITHOUT THE PRIOR NOTIFICATION AND APPROVAL OF THE HARBORS CONSTRUCTION ENGINEER.
- SUITABLE SURPLUS MATERIAL (AS DETERMINED BY THE ENGINEER) NOT REQUIRED FOR FILL SHALL BECOME THE PROPERTY OF THE STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION, HARBORS DIVISION AND SHALL BE TRANSPORTED BY THE CONTRACTOR TO THE ONSITE STOCKPILE SITE INDICATED ON THE PLANS.



KAWAIHAE HARBOR  
TMK 6-1-03:026

CONSTRUCTION LINE (CL)  
BEGIN STATION 10+00  
N=435,385.9615  
E=1,528,015.6080

CONSTRUCTION LINE (CL)  
END STATION 21+50  
N=434,514.2464  
E=1,528,765.6832

KAWAIHAE HARBOR  
BOUNDARY

STOCKPILE SITE

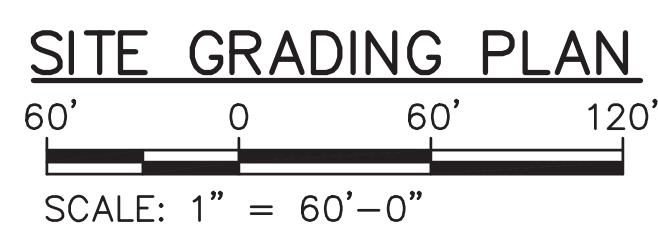
USA DEPT. OF ARMY TMK 6-1-03:022

EXISTING FENCE LINE TO BE  
PROTECTED AND UNDISTURBED  
DURING CONSTRUCTION

| EARTHWORK QUANTITIES |                   |
|----------------------|-------------------|
| CUT:                 | 35,413.82 CY      |
| FILL:                | 33,462.47 CY      |
| NET:                 | 1,951.36 CY (CUT) |

GRADED AREA 17.3 ACS

NOTE:  
SEE SHEETS C5 TO C8 FOR CROSSECTIONS



**LEGEND**

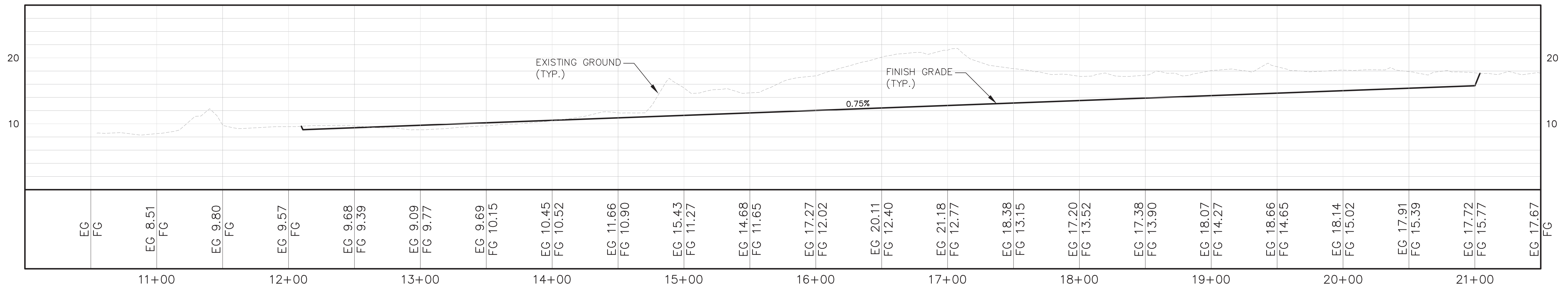
|  |                |
|--|----------------|
|  | FINISH GRADE   |
|  | EXISTING GRADE |
|  | GRADING LIMITS |

NEAL S. FUKUNO  
LICENSED PROFESSIONAL ENGINEER  
No. 6188-C  
HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION  
EXP 4-30-28

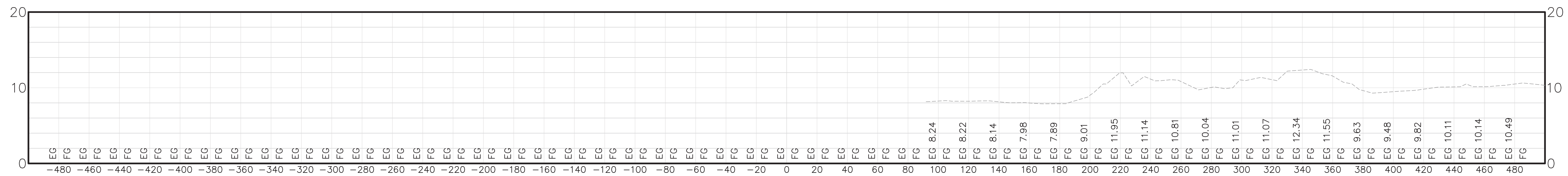
*Neal S. Fukunoto*  
WESLEY R. SEGAWA & ASSOCIATES, INC.

| REV   | DATE       | DESCRIPTION | BY            | APPROVED     |
|---|------------|-------------|---------------|--------------|
| STATE OF HAWAII<br><b>DEPARTMENT OF TRANSPORTATION<br/>HARBORS</b>                      |            |             |               |              |
| JOB TITLE<br><b>GRADING CORAL FLATS,<br/>KAWAIHAE HARBOR,<br/>HAWAII ISLAND, HAWAII</b> |            |             |               |              |
| SHEET TITLE<br><b>SITE GRADING PLAN</b>   |            |             |               |              |
| DESIGNED BY:  | CC         |             |               | <b>C4</b>    |
| DRAWN BY:   | RT         |             |               |              |
| CHECKED BY:   | NF         |             |               |              |
| DATE:   | APRIL 2026 |             |               |              |
| SCALE:  | AS NOTED   |             |               | 5 OF 9 SHTS. |
|   |            | JOB NUMBER  | <b>S50214</b> |              |

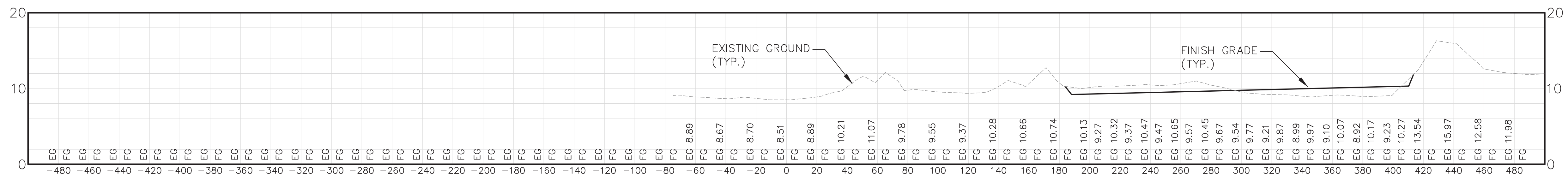


**CONSTRUCTION LINE (CL) PROFILE**

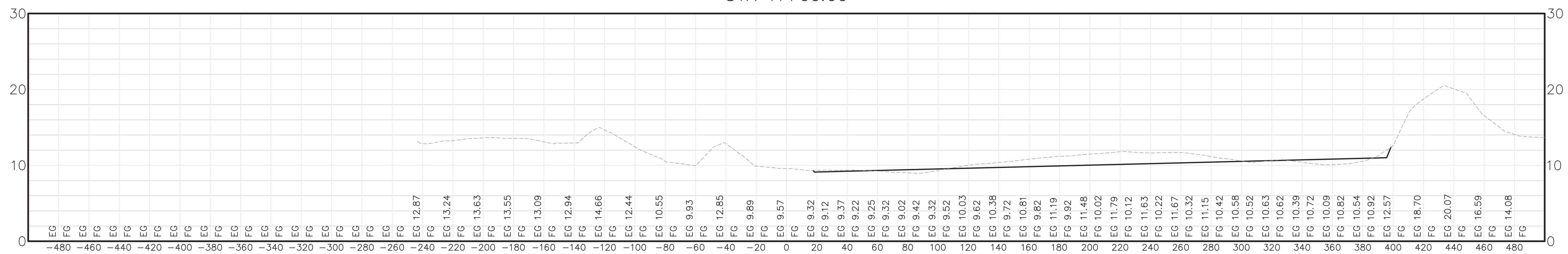
SCALE: HORIZ. 1"=40'  
VERT. 1"=8'



STA 10+00.00



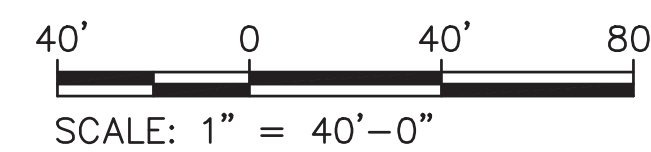
STA 11+00.00



STA 12+00.00

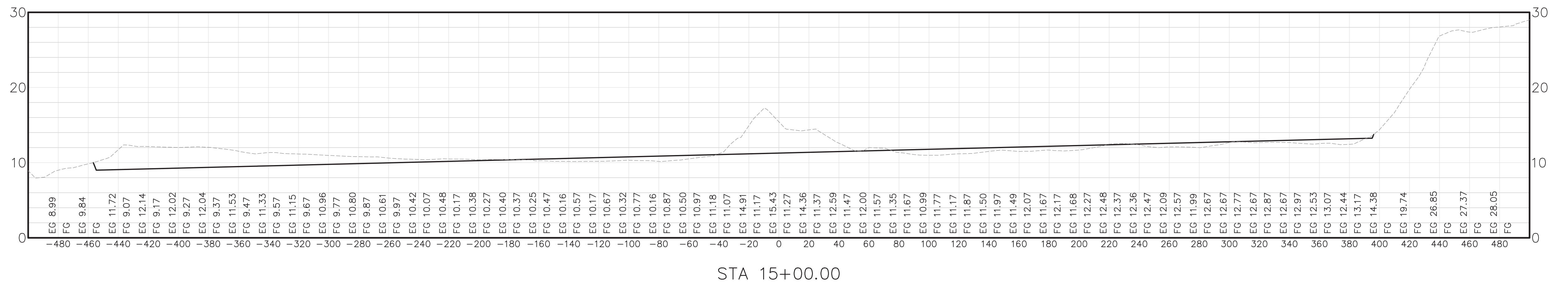
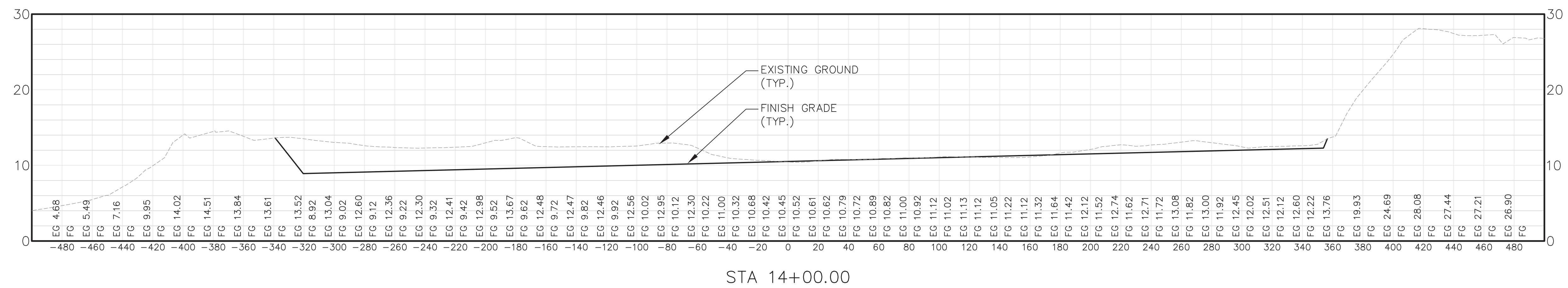
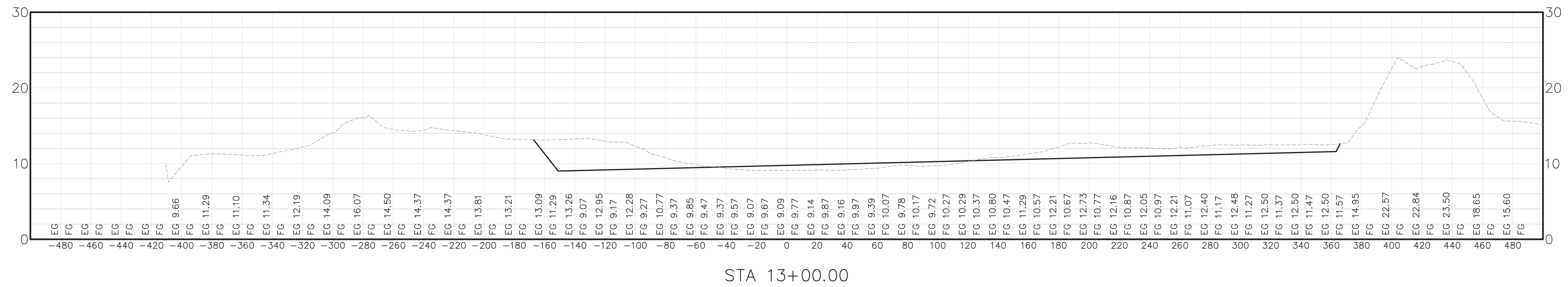
**CROSS SECTIONS STA 10+00 TO STA 12+00**

SCALE: HORIZ. 1"=40'  
VERT. 1"=8'



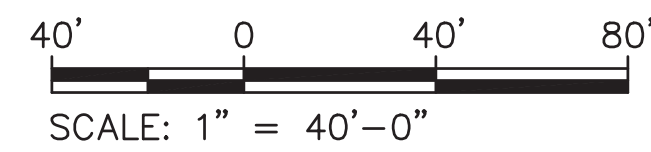
SCALE: 1" = 40'-0"

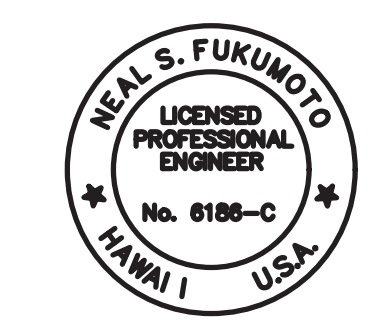

|  |  |      |             |   |          |
|--|--|------|-------------|---|----------|
| <p>NEAL S. FUKUMOTO<br/>LICENSED PROFESSIONAL ENGINEER<br/>No. 6186-C<br/>HAWAII U.S.A.</p> <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION<br/>EXP 4-30-28</p> <p><i>Neal S. Fukumoto</i><br/>NEALEY R. SEGAWA &amp; ASSOCIATES, INC.</p> | REV  | DATE | DESCRIPTION | BY  | APPROVED |
|  | STATE OF HAWAII<br><b>DEPARTMENT OF TRANSPORTATION</b><br><b>HARBORS</b>                                   |      |             |   |          |
|  | <b>JOB TITLE</b><br><b>GRADING CORAL FLATS,</b><br><b>KAWAIHAE HARBOR,</b><br><b>HAWAII ISLAND, HAWAII</b> |      |             |   |          |
|  | <b>SHEET TITLE</b><br><b>CROSS SECTIONS STA 10+00 TO 12+00</b>   |      |             |   |          |
| DESIGNED BY: CC  |  |      |             | <b>JOB NUMBER</b><br><b>S50214</b>        |          |
| DRAWN BY: RT   |  |      |             |   |          |
| CHECKED BY: NF   |  |      |             |   |          |
| DATE: APRIL 2026   |  |      |             |   |          |
| SCALE: AS NOTED  |  |      |             | <b>SHEET</b><br><b>C5</b><br>6 OF 9 SHTS. |          |

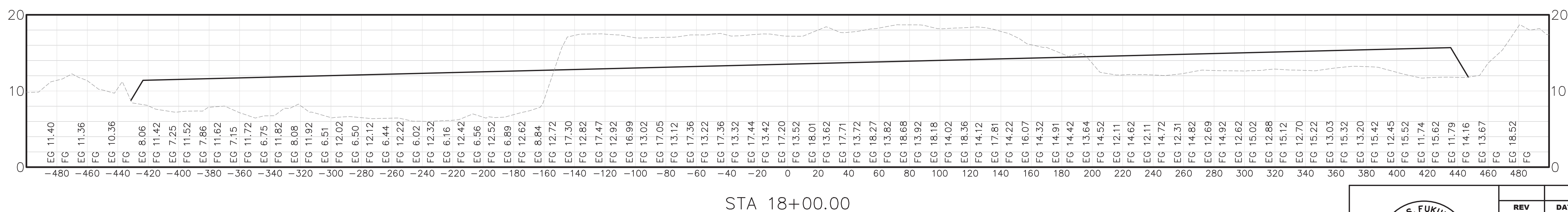
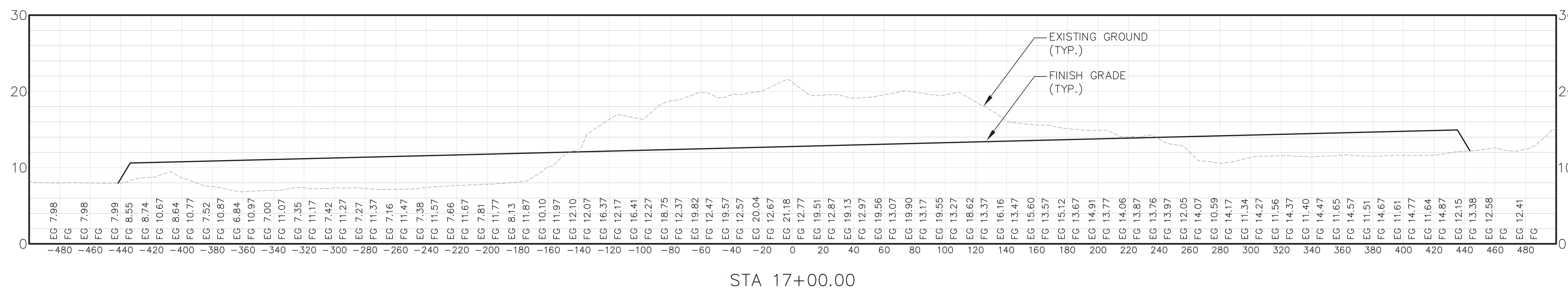
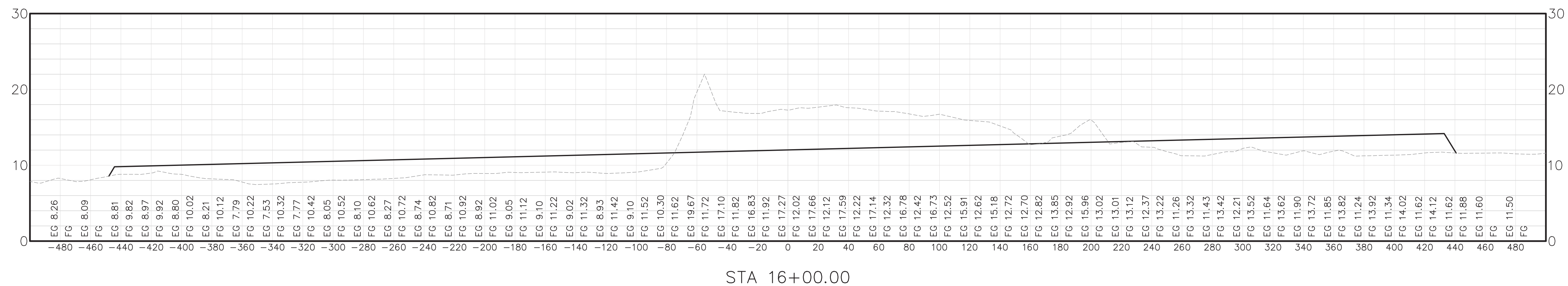


**CROSS SECTIONS STA 13+00 TO STA 15+00**

SCALE: HORIZ. 1"=40'  
VERT. 1"=8'

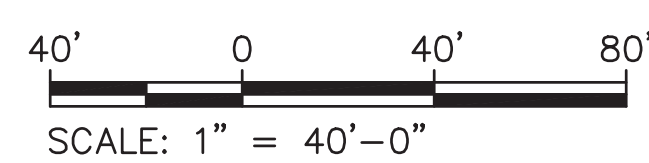


|   |   |   |   |
|---|---|---|---|
| <br><br><small>THIS WORK WAS PREPARED BY ME<br/>OR UNDER MY SUPERVISION<br/>EXP 4-30-28</small><br><br><br><small>WESLEY R. SEGAWA &amp; ASSOCIATES, INC.</small> | <small>STATE OF HAWAII</small><br><b>DEPARTMENT OF TRANSPORTATION</b><br><b>HARBORS</b>   | <small>REV</small>   <small>DATE</small>   <small>DESCRIPTION</small>   <small>BY</small>   <small>APPROVED</small> |   |
|   | <b>JOB TITLE</b><br><b>GRADING CORAL FLATS,</b><br><b>KAWAIHAE HARBOR,</b><br><b>HAWAII ISLAND, HAWAII</b>  |   |   |
|   | <b>SHEET TITLE</b><br><b>CROSS SECTIONS STA 13+00 TO 15+00</b>  |   |   |
|   | <small>DESIGNED BY: CC</small><br><small>DRAWN BY: RT</small><br><small>CHECKED BY: NF</small><br><small>DATE: APRIL 2026</small><br><small>SCALE: AS NOTED</small> | <b>JOB NUMBER</b><br><b>S50214</b>  | <small>SHEET</small><br><b>C6</b><br><small>7 OF 9 SHEETS</small> |
|   | <b>7 OF 9 SHEETS</b>  |   |   |

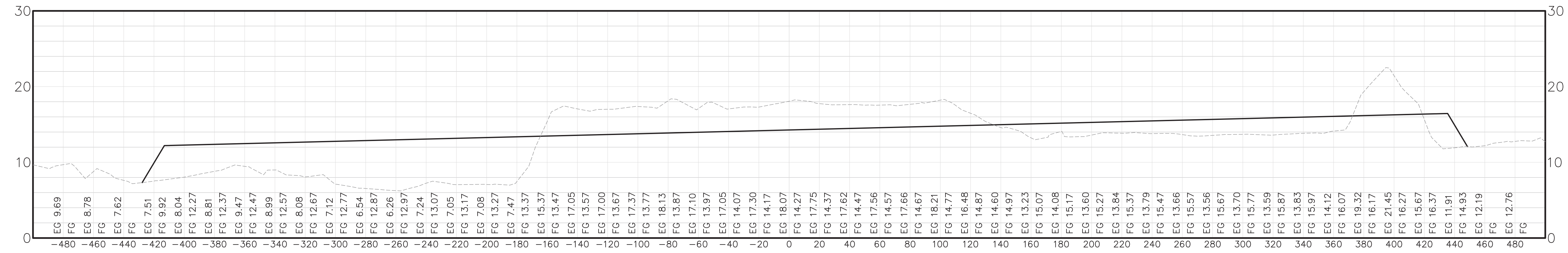


**CROSS SECTIONS STA 16+00 TO STA 18+00**

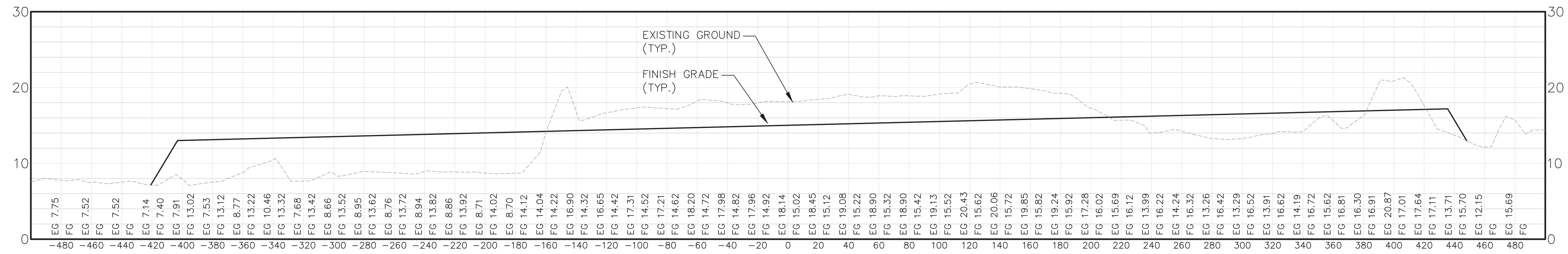
SCALE: HORIZ. 1"=40'  
VERT. 1"=8'



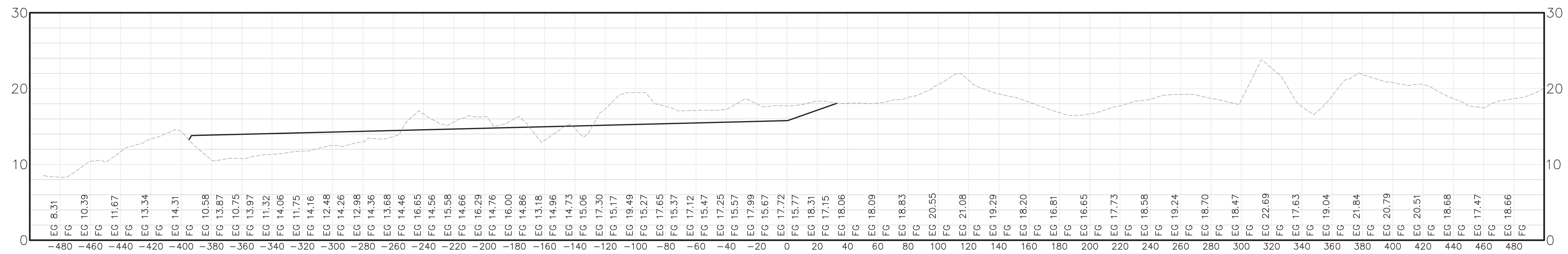
|  |  |      |             |               |          |
|--|--|------|-------------|---------------|----------|
| <p>NEAL S. FUKUMOTO<br/>LICENSED PROFESSIONAL ENGINEER<br/>No. 6186-C<br/>HAWAII U.S.A.</p> <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION<br/>EXP 4-30-28</p> <p>NEALEY R. SEGAWA &amp; ASSOCIATES, INC.</p> | REV  | DATE | DESCRIPTION | BY            | APPROVED |
|  | STATE OF HAWAII<br><b>DEPARTMENT OF TRANSPORTATION</b><br><b>HARBORS</b>                                   |      |             |               |          |
|  | <b>JOB TITLE</b><br><b>GRADING CORAL FLATS,</b><br><b>KAWAIHAE HARBOR,</b><br><b>HAWAII ISLAND, HAWAII</b> |      |             |               |          |
|  | <b>SHEET TITLE</b><br><b>CROSS SECTIONS STA 16+00 TO 18+00</b>   |      |             |               |          |
| DESIGNED BY: CC  |  |      |             | SHEET         |          |
| DRAWN BY: RT   |  |      |             | <b>C7</b>     |          |
| CHECKED BY: NF   |  |      |             | JOB NUMBER    |          |
| DATE: APRIL 2026   |  |      |             | <b>S50214</b> |          |
| SCALE: AS NOTED  |  |      |             | 8 OF 9 SHTS.  |          |



STA 19+00.00



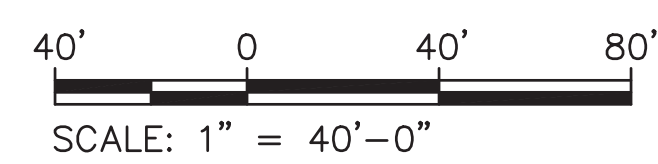
STA 20+00.00

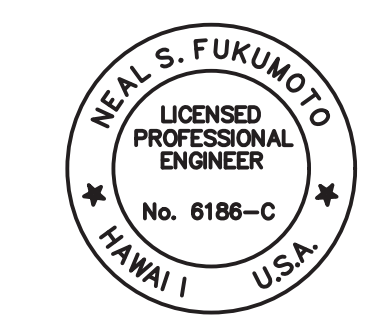



STA 21+00.00

CROSS SECTIONS STA 19+00 TO STA 21+00

SCALE: HORIZ. 1"=40'  
VERT. 1"=8'



|  |  |      |             |              |          |
|--|--|------|-------------|--------------|----------|
|  <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION<br/>EXP 4-30-28</p>  <p>NEALEY R. SEGAWA &amp; ASSOCIATES, INC.</p> | REV  | DATE | DESCRIPTION | BY           | APPROVED |
|  | STATE OF HAWAII<br><b>DEPARTMENT OF TRANSPORTATION</b><br><b>HARBORS</b>                                   |      |             |              |          |
|  | <b>JOB TITLE</b><br><b>GRADING CORAL FLATS,</b><br><b>KAWAIHAE HARBOR,</b><br><b>HAWAII ISLAND, HAWAII</b> |      |             |              |          |
|  | <b>SHEET TITLE</b><br><b>CROSS SECTIONS STA 19+00 TO 21+00</b>   |      |             |              |          |
| DESIGNED BY: CC  |  |      |             | SHEET        |          |
| DRAWN BY: RT   |  |      |             | <b>C8</b>    |          |
| CHECKED BY: NF   |  |      |             |              |          |
| DATE: APRIL 2026   | JOB NUMBER   |      |             |              |          |
| SCALE: AS NOTED  | <b>S50214</b>  |      |             | 9 OF 9 SHTS. |          |