



**STATE OF HAWAII**  
**DEPARTMENT OF LAND AND NATURAL RESOURCES**  
**COMMISSION ON WATER RESOURCE MANAGEMENT**  
**STREAM CHANNEL ALTERATION**  
**PERMIT APPLICATION**

**For Official Use Only:**

**Instructions:** Please print in ink or type and send one (1) completed hardcopy and one (1) digital copy of the application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Applications must be accompanied by a non-refundable filing fee of **\$25.00** payable to the Department of Land and Natural Resources. The Commission may not accept incomplete applications without the required signatures. For assistance, call the Stream Protection and Management Branch at **587-0234**. For further information and updates to this application form, visit <http://dlnr.hawaii.gov/cwrm>.

Check here to allow Commission staff to communicate primarily via e-mail.  
 Legally required and other key correspondence will still be transmitted via postal mail.

**PERMIT TYPE:**

1. Permit Applying For:  New  After-The-Fact  
 2. Type of Construction:  Installation  Modification  Removal

**APPLICANT INFORMATION**

3. APPLICANT'S NAME / COMPANY City and County of Honolulu Department of Design and Construction	Applicant's Contact Person Haku Milles	Applicant's Phone (808) 768-8800
Applicant's Mailing Address 650 South King St., 11th Floor Honolulu, Hawaii 96813	Applicant's E-mail Address kching1@honolulu.gov (Project Manager)	

Check here if project will impact multiple landowners. If project impacts multiple landowners, skip Item 4 below, then complete and attach Form LND-APP to identify and verify landowner's approval of proposed stream channel alteration work.

4. LANDOWNER'S NAME / COMPANY	Landowner's Contact Person	Landowner's Phone
Landowner's Mailing Address	Landowner's E-mail Address	

5. CONSULTANT'S NAME / COMPANY <b>Fukunaga and Associates, Inc.</b>	Consultant's Contact Person <b>Lance Fukumoto</b>	Consultant's Phone <b>808-944-1821</b>
Consultant's Mailing Address <b>1357 Kapiolani Blvd., Ste. 1530 Honolulu, HI 96814</b>	Consultant's E-mail Address <b>lfukumoto@fukunagaengineers.com</b>	

6. CONTRACTOR'S NAME / COMPANY <b>Not available</b>	Contractor's Contact Person <b>Not available</b>	Contractor's Phone <b>Not available</b>
Contractor's Mailing Address <b>Not available</b>	Contractor's E-mail Address <b>Not available</b>	

**STREAM INFORMATION**

7. Island: (Check only one)  Kauai  Oahu  Molokai  Lanai  Maui  Hawaii

8. Tax Map Key(s) List all affected tax map key parcels.  
**2-9-36:24, 2-9-37:12, & 2-9-37:25**

9. Stream / Gulch Name(s) List all affected streams and/or gulches.  
**Manoa Stream and Woodlawn Ditch**

<b>FOR OFFICIAL USE ONLY:</b>	SWHU ID: _____	FILE ID: _____
LAT: _____	GWHU ID: _____	DOC ID: _____
LON: _____	REACH ID: _____	

**GENERAL PROJECT INFORMATION**

10. Project Type: Check all that apply.

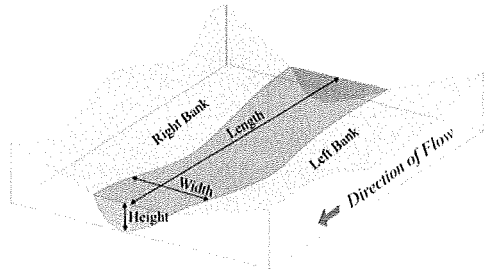
- Bank Stabilization     Bridge     Channel Alignment     Channel Lining     Culvert     Dam / Dike / Weir
- Desilting Area     Drainage Outlet     Dredging     Ford Crossing     Grading     Levee / Flood Wall
- Restoration     Retaining Wall     Retention Basin     Stream Gage     Sewer Line     Water Line
- Other - Describe: \_\_\_\_\_

11. Project Site Location(s): Provide site coordinates of downstream-most point of project in degrees, minutes, seconds (NAD83).

Latitude: **21° 18' 52"**    Longitude: **157° 48' 21"**    Elevation: **175** ft. above mean sea level

12. Structure Dimensions: (feet)  
 Provide generalized dimensions for the entire project / structure area. If the project includes a pipe (e.g., culvert, drain, etc.), provide the pipe diameter.

Width: **24 to 46 feet**  
 Height: **18 to 21 feet**  
 Length: **200 feet**  
 Diameter: **48 inches**



13. Structure Location:  
 Provide the general location of the stream channel alteration structure in relation to the streambank.

Left bank (downstream view)  
 Right bank (downstream view)  
 Across entire stream channel

14. State Land Use Classification: (Check all that apply)     Agriculture     Conservation     Rural     Urban

**LEGAL REQUIREMENTS**

If required, the permits or approvals below must be obtained before the Commission on Water Resource Management can legally issue a permit. Visit the Commission's Applications & Forms webpage (<http://dlnr.hawaii.gov/cwrm/info/forms/>) for links to agency websites/contact information.

15. Conservation District Use Permit (CDUP): To find out if your stream channel alteration project is located in a Conservation District (CD), you may visit to the Land Use Commission (LUC) website at <http://luc.hawaii.gov/maps> to view Land Use District Boundary maps. If the stream channel alteration will be located in a CD, contact the Department of Land and Natural Resources' Office of Conservation and Coastal Lands (OCCL) at (808) 587-0377 to determine if a CDUP is required.

- Stream channel alteration is in a Conservation District.
  - Required. CDUP #: \_\_\_\_\_ Date CDUP approved: \_\_\_\_\_
  - Not Required. Attach documentation from Office of Conservation and Coastal Lands (OCCL), Department of Land and Natural Resources.
  - I have not checked with the OCCL about whether or not a CDUP is required.
- Stream channel alteration is not in a Conservation District.

16. Special Management Area Permit (SMAP): To determine if an SMAP is necessary, contact your County Planning Department.

- Required. SMAP #: \_\_\_\_\_ Date SMAP approved: \_\_\_\_\_
- Not Required. Attach documentation from applicable County agency.
- I have not checked with the County about whether or not an SMA Permit is required.

17. State Historic Preservation Division (SHPD), Department of Land and Natural Resources: If the parcel(s) affected by the stream alteration has been reviewed by the State Department of Land and Natural Resources Historic Preservation Division (SHPD or through an OEQC Environmental Review, Special Management Area Permit, etc.), check "yes" and attach any relevant documentation from SHPD. If the affected parcel(s) has not undergone SHPD review, attach a photograph of the affected area, a schematic diagram (showing the location, access road and infrastructure for the alteration), and a short description of the prior use(s) of the land on which the alteration resides.

*\*Please note: You are **strongly advised** to contact the SHPD to obtain a pre-review of your project. In the event that you do not get an HP pre-review and if during the course of either review or the permit itself it is determined that you need SHPD's concurrence, your application or permit may be held in abeyance or denied until issues with HP are resolved. To contact SHPD, please call (808) 692-8015.*

- I have consulted the SHPD regarding potential impacts of stream channel alteration activities on historic sites. I have attached applicable documentation from the SHPD.
- I have not consulted with the SHPD regarding potential impacts of stream channel alteration activities on historic sites.

18. Chapter 343, Hawaii Revised Statutes, Hawaii Environmental Policy Act:

- An Environmental Assessment was completed, and
- An Environmental Impact Statement was required and has been accepted (attach letter of acceptance).  
 Publication date in The Environmental Notice: \_\_\_\_\_
- A Finding of No Significant Impact has been determined (attach letter).  
 Publication date in The Environmental Notice: **02/08/24**

This project proposes:

- Use of state or county lands, or use of state or county funds
- Use within a state conservation district
- Use within a shoreline setback area
- Use within a national or Hawaii registered historic site
- Use within the Waikiki Special District
- The construction, expansion or modification of helicopter facility
- A wastewater treatment unit
- Waste-to-energy facility
- Landfill
- Oil refinery
- Power-generating facility
- None of the above 11 items

## OTHER REGULATORY REQUIREMENTS

If the proposed stream channel alteration is subject to the following permits or approvals, indicate by checking the appropriate box below and submit either the approval letter from the appropriate agency or attach a copy of the application form. If the proposed stream channel alteration is not subject to the following permits or approvals, indicate by checking the "N/A" (Not Applicable) field.

	<u>Attached</u>	<u>N/A</u>
19. U.S. Army Corps of Engineers (Harbors and Rivers Act, Section 404, Clean Water Act)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. State Department of Health, Clean Water Branch (Section 401, Clean Water Act, Water Quality Certification, Best Management Practices Plan)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21. Right-of-Entry or Right-of-Way Permit if the proposed stream channel alteration includes State lands. (Chapter 171, Hawaii Revised Statutes)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22. Hawaii Environmental Policy Act (Chapter 343, Hawaii Revised Statutes; Title 11, Chapter 200, Hawaii Administrative Rules)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23. Soil and Water Conservation District	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24. County Certification of "No-Rise"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25. County Grading Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26. County Discretionary Permit(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## CULTURAL IMPACTS

Articles IX and XII of the State Constitution, other state laws, and the courts of the State, require government agencies to promote and preserve cultural beliefs, practices, and resources of Native Hawaiians and other ethnic groups. If there is not enough space available, please make a note in the field (e.g., "See attached") and attach all information with this application as requested.

27. Please provide the identity and scope of cultural, historical, and natural resources in which traditional and customary native Hawaiian rights are exercised in the area.

**Cultural:** Native Hawaiians utilize Manoa Stream for practices such as fishing, gathering, and cultivating native plants. These activities are rooted in ancestral knowledge and sustainability. Manoa Stream is often mentioned in Native Hawaiian chants and stories.

**Historical:** There is not a known historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places within the project area. The nearest historic site listed on National Register of Historic Places (NHRP) is the Salvation Army Waioli Tea Room located at 3016 O'ahu Avenue [TMK: (1) 2-9-031:001], over 650 meters west-northwest from the area of potential effects. On October 30, 1998, it was listed on the NRHP with reference number 98001288 and on the HRHP as SIHP Site No. 50-80-14-09572.

**Natural Resources:** Manoa Stream area is home to native flora and fauna which are vital for maintaining ecological balance.

28. Identify the extent to which those resources, including traditional and customary Native Hawaiian rights, will be affected or impaired by the proposed action.

There will be minimal to no affect and impairment by the proposed action to cultural historical and natural resources within the project area.

**Cultural:** All cultural utilizations will remain available after completion of the proposed action. Bank stabilization will help preserve the stream within the project area for practices such as fishing, gathering, and cultivating native plants.

**Historical:** As no historic places are adjacent to the area of potential effects or Manoa Stream, none should be affected by this project.

**Natural Resources:** The proposed improvement will not impact native flora and fauna in the area.

29. What feasible action, if any, could be taken by the Commission on Water Resource Management in regards to your application to reasonably protect Native Hawaiian rights?

**No action required.**

## PROJECT DESCRIPTION

*Please complete the following sections by providing detailed information on the project components identified below. If there is not enough space available, please make a note in the field (e.g., "See attached") and attach all information with this application as requested.*

### 30. Describe the overall project scope and objectives.

**The project will stabilize a portion of the stream bank of Manoa Stream within the Manoa Gardens Elderly Housing property at 2790 Kahaloa Drive (TMK 2-9-036:024) that is experiencing significant erosion. The work will include the installation of an approximately 15-foot-high gabion retaining wall, gabion mattresses along portions of the stream bed, and slope stabilization measures along the top of the wall. Installation of these structures will require excavation within the stream.**

### 31. Describe existing stream channel and streamflow conditions at the site of the proposed stream channel alteration.

**The project area is within the middle reach of Manoa Stream. The middle reach is classified in state water quality standards as Class 2 inland waters. The project area includes a stream channel and embankment made up of stone, cobble, trees, brush, and other vegetation from the invert of Manoa Stream to approximately 60 feet inward of the Manoa Gardens Elderly Housing property line. Manoa Gardens Elderly Housing is a town-home-style senior community. There are housing structures within close proximity to the project area. Top bank elevations within the project area range from about 184 feet mean sea level (msl) at the upstream end of proposed improvements to approximately 180 feet (msl) at the downstream end of proposed improvements. Stream invert elevations range from about 170 feet mean sea level (msl) at the upstream end of proposed improvements to approximately 164 feet (msl) at the downstream end of proposed improvements. At the time when survey data was taken, the depth of water in the channel area was approximately 1.5 feet.**

**32. Identify and describe the project components outlined below**

**A. Materials**

**Crushed rock wrapped with filter fabric for stabilization of gabion structure  
Gabion baskets and mattress to stabilize streambank and prevent further erosion  
Replace portion of existing reinforced concrete drainline.  
Aggregate and soil to fill top of embankment to meet slope requirements**

**B. Quantities**

**Excavation: 2,024 CY  
Embankment Fill: 44 CY  
Structural Fill: 263 CY  
Gabion: 1,420 CY  
Crushed Rock: 119 CY**

**C. Excavation**

**Excavation of portions of existing stream bank to be replaced with gabion structure.**

**D. Fill**

**New or suitable recycled fill material will be used to match the top of the gabion wall to existing grade as needed.**

**E. Disposal**

**Disposal of excess excavated streambank material that is not being used as fill material.**

**F. Construction methods**

**Work along stream bank and within stream. Maintaining stream flow with silt curtains within stream to prevent sediment from migrating downstream.**

**G. Temporary facilities**

**Temporary construction staging area, crushed rock ingress and egress, silt curtain, and rock ramp for stream access**

**H. Expected period of time required for construction**

**December 2025 to March 2027**

**I. Liability during construction**

**Majority of the work is within City and County of Honolulu property but a small portion of the gabion construction will extend into a section of stream owned by a another residential property owner. The City and County of Honolulu will obtain ROE and/or easement prior to construction.**

33. Describe the project's consistency with county zoning and development plans.

**No zoning change, no impact to development plans.**

**See EA exemption memo attached.**

34. Identify potential alternatives to the project and describe the relative costs and benefits of each alternative.

**The chosen alternative is to stabilize the existing streambank by installing a gabion wall to prevent further erosion and minimize future maintenance costs. Other alternatives are:**

**1. No action: The stream bank would continue to erode and encroach into the City and County of Honolulu property, which would result in increased maintenance costs in the future.**

**2. Rebuild streambank and slope with natural vegetative materials: This alternative may be less feasible due to the steep existing slope of the streambank and the need for dewatering. The rebuilt streambank will also continue to erode due to stream flow and will require maintenance in the future, resulting in additional costs.**

**SUBMITTALS**

Please submit the following plans, maps, or drawings in legible form, preferably on 8.5" by 11" sheets.

**35. Location Map:** Provide a location map of the proposed project relative to major roadways.

**36. Plans / Elevations / Sections:** Provide a plan view of the proposed stream channel alteration structure in relation to the stream channel and property boundaries. Elevation and section views of the structure in relation to the stream channel should also be provided if available.

**SIGNATURES**

Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that if the permit requested is granted by the Commission on Water Resource Management (Commission), the permit shall be subject to the following conditions:

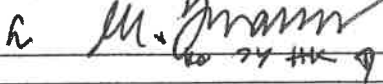
- 1) The proposed work is to be completed within two (2) years from the date of permit approval.
- 2) The permittee shall notify the Commission, by letter, of the actual dates of project initiation and completion.
- 3) The permittee shall submit a set of as-built plans and photographs to the Commission upon completion of the project.
- 4) The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months.
- 5) If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

**37. APPLICANT**

Print Name:

Haku Milles

Signature:



Date:

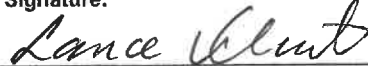
10/30/25

**38. CONSULTANT**

Print Name:

Lance Fukumoto

Signature:



Date:

12/1/25

**39. CONTRACTOR**

Print Name:

Not available

Signature:

Not available

Date:

Not available

**40. LANDOWNER** (If multiple landowners, skip Section 53, then complete and attach Form SCAP-LND with appropriate landowner signatures.)

Print Name:

Signature:

Date:

## **CHECKLIST FOR A COMPLETE APPLICATION and ITEM DESCRIPTIONS (ITEMS 1 - 14)**

- Fill in the most recent application form (check <http://dlnr.hawaii.gov/cwrm> or call 587-0234 for updates).
- Fill in every line which includes Items 1-40, as indicated (total 8 pages).
- Enclose a check for \$25 payable to the Department of Land and Natural Resources.
- Mark the proposed stream channel alteration location on: the appropriate USGS quad map, TMK map, photo and schematic, and attach to the application.
- Attach Form LND-APP to identify and obtain authorizations for the project if multiple landowners will be impacted.
- Attach a grading plan and cross section profiles showing existing and finish grades, if available.
- Attach documentation from CDUP, SMAP, SHPD when applicable regarding Items 15-17.
- Attach letters from U.S. Army Corps of Engineers, Hawaii Department of Health, Office of Conservation and Coastal Lands, and appropriate county agencies regarding Items 18-26.
- Provide digital copies on CD-ROM or via e-mail, if available.
- Obtain the necessary signatures for the application form.

Send the application and maps, copies, and the filing fee to:

*Commission on Water Resource Management*

*P.O. Box 621*

*Honolulu, HI 96809*

### **PERMIT TYPE**

1. **Permit Status:** Indicate whether this application is for a new stream channel alteration project (including medication or abandonment) or if the project has already been completed and an after-the-fact permit is being applied for.
2. **Type of Construction:** Is the permit application for the installation of a new stream channel alteration, or modification or removal of an existing stream channel structure.

### **APPLICANT INFORMATION**

3. **Applicant's Information:** Fill in the information for the applicant. This should be the entity that will be responsible for the maintenance of the stream channel alteration when the project is completed.
4. **Landowner's Information:** Fill in the information for the landowner of the property where the stream channel alteration will be located.
5. **Consultant's Information:** Fill in the information for the consultant who will assist with plan and design preparation for the subject project.
6. **Contractor's information:** Fill in the information for the contractor who will perform the work on the subject stream channel alteration project.

### **STREAM INFORMATION**

7. **Island:** The island name where the stream channel alteration will be located.
8. **TMK:** Tax Map Key number (generally there is no lot number, but where a parcel is divided into two lots, fill in the lot number)
9. **Stream / Gulch Name:** Name of the stream or gulch where the stream channel alteration will be located.

### **GENERAL PROJECT INFORMATION**

10. **Project Type:** Identify the type of work being performed, and select all that apply to the project.
11. **Project Site Location(s):** Fill in stream channel alteration location coordinates taken from a GPS unit at the project site. Units are Degrees, Minutes and Seconds (seconds should be filled out to at least one decimal place; e.g. 19°59'32.8"N, 155°14'51.5"W). If more than one site, attach separate sheet. Elevations should be provided in feet above mean sea level.
12. **Structure Dimensions:** What are the physical dimensions of the stream channel alteration structure that will be located in or adjacent to the stream channel?
13. **Structure Location:** Will the structure be located on the right or left bank (facing downstream) or across the entire stream channel?
14. **State Land Use Classification:** Identify the current State Land Use Classification.

**Please see header descriptions for remaining Sections in completing Items 15 to 40.**



**STATE OF HAWAII**  
**DEPARTMENT OF LAND AND NATURAL RESOURCES**  
**COMMISSION ON WATER RESOURCE MANAGEMENT**  
**MULTIPLE LANDOWNERS/LOCATIONS FORM**

For Official Use Only:

**Instructions:** Please print in ink or type and send completed form attached to stream channel alteration or stream diversion works permit application to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete applications without the required landowner signatures. For assistance, contact the Stream Protection and Management Branch at 587-0234. For further information and updates to this application form, visit <http://dlnr.hawaii.gov/cwrm>.

**A. LANDOWNER INFORMATION**

For proposed stream channel alterations and stream diversion works affecting multiple landowners, complete the sections below for each individual landowner. **Form LND-APP** provides space for information on five (5) landowners. Complete as many forms as necessary to identify all, and only those, landowners affected by the proposed stream channel alteration or stream diversion works.

<b>1. LANDOWNER'S NAME/COMPANY</b> City and County of Honolulu		Landowner's Contact Person <b>Haku Milles</b>	Landowner's Phone <b>808-768-8480</b>
Landowner's Mailing Address <b>2790 Kahaloa Drive Honolulu, HI 96822</b>		Tax Map Key Parcel(s) <b>2-9-36:24 &amp; 2-9-037:12</b>	Landowner's E-mail Address
Print Name: <b>Haku Milles</b>	Signature: <i>Haku Milles</i>	Date: <b>10/20/25</b>	
<b>2. LANDOWNER'S NAME/COMPANY</b> Maitri Place Condo Master		Landowner's Contact Person <b>Brian Brennan</b>	Landowner's Phone
Landowner's Mailing Address <b>3202 E Manoa Road Honolulu, HI 96822</b>		Tax Map Key Parcel(s) <b>2-9-37:25</b>	Landowner's E-mail Address <b>bbrennan@fhb.com</b>
Print Name: <b>BRIAN K BRENNAN</b>	Signature: <i>Brian Brennan</i>	Date: <b>10/18/25</b>	
<b>3. LANDOWNER'S NAME/COMPANY</b>		Landowner's Contact Person	Landowner's Phone
Landowner's Mailing Address		Tax Map Key Parcel(s)	Landowner's E-mail Address
Print Name:	Signature:	Date:	
<b>4. LANDOWNER'S NAME/COMPANY</b>		Landowner's Contact Person	Landowner's Phone
Landowner's Mailing Address		Tax Map Key Parcel(s)	Landowner's E-mail Address
Print Name:	Signature:	Date:	
<b>5. LANDOWNER'S NAME/COMPANY</b>		Landowner's Contact Person	Landowner's Phone
Landowner's Mailing Address		Tax Map Key Parcel(s) <i>2-9-37:25</i>	Landowner's E-mail Address <i>bbrennan@fhb.com</i>
Print Name:	Signature:	Date: <i>10/18/25</i>	



**CONSTRUCTION NOTES:**

- ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986 AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU AND THE COUNTIES OF KAUAI, MAUI, AND HAWAII.
- THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT 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 CONTROL", AS WELL AS CHAPTER 18A OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.

THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:

- STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND
- DISCHARGES OF HYDROTESTING EFFLUENT, DEWATERING EFFLUENT, AND WELL DRILLING EFFLUENT TO STATE WATERS.

IN ACCORDANCE WITH STATE LAW, ALL DISCHARGES RELATED TO PROJECT CONSTRUCTION OR OPERATIONS ARE REQUIRED TO COMPLY WITH STATE WATER QUALITY STANDARDS (HAWAII ADMINISTRATIVE RULES, CHAPTER 11-54). BEST MANAGEMENT PRACTICES SHALL BE USED TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENT, DEBRIS, AND OTHER POLLUTANTS TO STATE WATERS. PERMIT COVERAGE IS AVAILABLE FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH AT [HTTP://HEALTH.HAWAII.GOV/CWB](http://health.hawaii.gov/cwb). THE OWNER/DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE, OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.

- FOR CITY PROJECTS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE RESPONSIBLE CITY AGENCY FOR REVIEW AND APPROVAL. ALSO, THE CONTRACTOR SHALL COORDINATE INSPECTIONAL SERVICES WITH THE RESPONSIBLE CITY AGENCY.

**6. CONFINED SPACE**

FOR ENTRY BY CITY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(B), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:

- ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
  - FULL BODY HARNESSES FOR UP TO TWO PERSONNEL.
  - LIFELINE AND ASSOCIATED CLIPS.
  - INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.
  - TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
  - EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
  - CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
  - CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20- FEET AWAY).
  - PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.
- CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.
- ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).

- PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE HONOLULU POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION 808-(692-8015). IN ADDITION, FOR NON-CITY PROJECTS, THE CONTRACTOR SHALL INFORM THE CIVIL ENGINEERING BRANCH, DEPARTMENT OF PLANNING AND PERMITTING 808-(768-8084); AND FOR CITY PROJECTS, NOTIFY THE RESPONSIBLE CITY AGENCY.

- FOR BENCH MARK, SEE SHEET C005.

**STATE HISTORIC PRESERVATION DIVISION:**

- IN THE EVENT THAT SUBSURFACE HISTORIC RESOURCES, INCLUDING HUMAN SKELETAL REMAINS, STRUCTURAL REMAINS, CULTURAL DEPOSITS, ARTIFACTS, SAND DEPOSITS, OR SINKHOLES ARE IDENTIFIED DURING THE DEMOLITION AND/OR CONSTRUCTION WORK, CEASE WORK IN THE IMMEDIATE VICINITY OF THE FIND, PROTECT THE FIND FROM ADDITIONAL DISTURBANCE, AND CONTACT THE STATE HISTORIC PRESERVATION DIVISION, AT (808) 692-8015. SEE GENERAL CONSTRUCTION NOTE FOR ADDITIONAL AGENCIES TO NOTIFY IF ARTIFACTS AND/OR HUMAN SKELETAL REMAINS ARE UNCOVERED.

**GRADING NOTES:**

- ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH CHAPTER 18A, ARTICLES 1, 2, 3 AND 4, AS RELATED TO GRADING, SOIL EROSION AND SEDIMENT CONTROL OF THE REVISED ORDINANCES OF HONOLULU, 2021, AS AMENDED, AND SOILS REPORT BY HIRATA & ASSOCIATES, INC. DATED DECEMBER 2, 2022. A REPORT AFTER GRADING, PREPARED BY A PROFESSIONAL ENGINEER, IS REQUIRED UPON COMPLETION OF THIS PROJECT.
- NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60.1, "AIR POLLUTION CONTROL".
- THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE.
- ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.
- FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE DIRECTOR, D.P.P., PROVIDED SUCH GRADING WORK IS ALSO IN CONFORMANCE WITH THE COMMUNITY NOISE CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46, "COMMUNITY NOISE CONTROL".
- THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL BE RESPONSIBLE FOR ALL GRADING OPERATIONS TO BE PERFORMED IN CONFORMANCE WITH APPLICABLE PROVISIONS OF CHAPTER 18A OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.

THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:

- STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND
  - DISCHARGES OF HYDROTESTING EFFLUENT, DEWATERING EFFLUENT, AND WELL DRILLING EFFLUENT TO STATE WATERS.
- BEST MANAGEMENT PRACTICES SHALL BE USED TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENT, DEBRIS, AND OTHER POLLUTANTS TO STATE WATERS. PERMIT COVERAGE IS AVAILABLE FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH AT [HTTP://HEALTH.HAWAII.GOV/CWB](http://health.hawaii.gov/cwb). THE OWNER/DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE, OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.

- WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
- TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO APPLICATION FOR GRADING PERMIT.
- IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
- BUILDING PERMIT FOR RETAINING WALLS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF GRADING WORK ON SITE.
- FOR NON-CITY PROJECTS, THE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEERING BRANCH, D.P.P. AT 808-(768-8084) TO ARRANGE FOR INSPECTIONAL SERVICES AND SUBMIT TWO (2) SETS OF APPROVED CONSTRUCTION PLANS SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK. FOR CITY PROJECTS, THE CONTRACTOR SHALL COORDINATE INSPECTIONAL SERVICES WITH THE RESPONSIBLE CITY AGENCY.
- PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE HONOLULU POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION 808-(692-8015). IN ADDITION, FOR NON-CITY PROJECTS, THE CONTRACTOR SHALL INFORM THE CIVIL ENGINEERING BRANCH, D.P.P 808-(768-8084); AND FOR CITY PROJECTS, NOTIFY THE RESPONSIBLE CITY AGENCY.
- FOR ALL PROJECTS, WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND, THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL A NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII, AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM. ALSO, FOR NON-CITY AND OTHER NON-GOVERNMENTAL AGENCY PROJECTS, THE CONTRACTOR SHALL PROVIDE A WRITTEN COPY OF THE NGPC TO THE PERMITTING AND INSPECTION SECTION, CIVIL ENGINEERING BRANCH, D.P.P., AT LEAST SEVEN (7) CALENDAR DAYS BEFORE THE START OF THE CONSTRUCTION. FOR CITY OR OTHER GOVERNMENTAL PROJECTS, THE CONTRACTOR SHOULD PROVIDE A WRITTEN COPY OF THE NGPC TO THE APPROPRIATE CITY DEPARTMENT OR GOVERNMENTAL AGENCY PER THEIR REQUIREMENTS.

**GRADING NOTES (cont):**

- ALL GRADING AND CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS.
- NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE VIOLATOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECT TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
- FOR BENCH MARK, SEE SHEET C005.

**TRAFFIC NOTES FOR WORK ON CITY & COUNTY STREETS:**

- A PERMIT SHALL BE OBTAINED FROM THE DEPARTMENT OF TRANSPORTATION SERVICES BEFORE WORK ON ANY PORTION OF A PUBLIC STREET OR HIGHWAY MAY BEGIN. CONSTRUCTION TRAFFIC CONTROL PLANS APPROVED BY THE DEPARTMENT OF TRANSPORTATION SERVICES AND/OR THE DEPARTMENT OF PLANNING AND PERMITTING MUST BE PROVIDED WHEN APPLYING FOR THE PERMIT.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS AND OTHER PROTECTIVE FACILITIES, WHICH SHALL CONFORM WITH THE "HAWAII ADMINISTRATION RULES GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS" ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT US FEDERAL HIGHWAYS ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS, PART VI-TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS."
- WORK ON ANY CITY STREET AREA MAY BE PERFORMED ONLY BETWEEN THE HOURS OF 8:30 A.M. TO 3:30 P.M., MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE DEPARTMENT OF TRANSPORTATION SERVICES.
- DURING WORKING HOURS, THE CONTRACTOR SHALL PROVIDE FOR THROUGH TRAFFIC. DURING NON-WORKING HOURS, ALL TRENCHES SHALL BE COVERED WITH A SAFE NON-SKID BRIDGING MATERIAL AND ALL LANES SHALL BE OPEN TO TRAFFIC.
- AS REQUIRED BY THE DEPARTMENT OF TRANSPORTATION SERVICES, THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO CONTROL THE FLOW OF TRAFFIC.
- WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. PASSAGE BETWEEN WALKWAYS AT INTERSECTIONS SHALL LIKEWISE BE PROVIDED.
- DRIVEWAYS SHALL BE KEPT OPEN UNLESS THE OWNERS OF THE PROPERTY USING THESE RIGHTS-OF-WAY ARE OTHERWISE PROVIDED FOR SATISFACTORILY
- CONTRACTOR SHALL REFERENCE TO THE APPROVAL OF THE DEPARTMENT OF TRANSPORTATION SERVICES AND THE DEPARTMENT OF PLANNING AND PERMITTING, ALL EXISTING TRAFFIC SIGNS, POSTS AND PAVEMENT MARKINGS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNS, POSTS AND PAVEMENT MARKINGS DISTURBED BY HIS ACTIVITIES.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PLANNING AND PERMITTING AT (808) 768-8084 ONE (1) WEEK PRIOR TO ANY WORK TO BE DONE ON SIGNS, POST AND PAVEMENT MARKINGS.
- NO EQUIPMENT SHALL BE STORED WITHIN STREET RIGHTS-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION SERVICES.
- DDC SHALL ENSURE THAT THE CONTRACTOR INSTALLS THE CONSTRUCTION TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MUTCD AND THE HAWAII ADMINISTRATION RULES AS SPECIFIED IN TRAFFIC NOTE #2.

**TOPOGRAPHIC SURVEY NOTES:**

- BENCHMARK:**  
U.S. COASTAL AND GEODETIC SURVEY BRASS DISK (FLOOD INSURANCE RATE MAP; CITY AND COUNTY OF HONOLULU, HAWAII) L-12 ELEV. = 235.45 FT., MSL (FEBRUARY 01, 2007)
- AZIMUTHS AND COORDINATES REFERRED TO HAWAII STATE PLANE, NAD83(PA11), FT.
- UNDERGROUND UTILITY LINES AND/OR STRUCTURES, IF SHOWN, ARE PROVIDED BASED ON INFORMATION FROM PLANS/MAPS PREPARED BY OTHERS, AND NEED TO BE REVIEWED BY PUBLIC UTILITY AGENCIES OR ASSOCIATED FACILITIES.
- UNLESS OTHERWISE NOTED, ALL LOCATIONS OF UNDERGROUND UTILITY LINES AND/OR STRUCTURES ARE APPROXIMATE. NO GUARANTEE IS MADE ON THE ACCURACY OF COMPLETENESS OF THE INFORMATION SHOWN. THE USER(S) OF THIS TOPOGRAPHIC SURVEY MAP SHALL VERIFY THE INFORMATION, AS NEEDED, DURING DESIGN AND CONSTRUCTION.
- TONING LOCATION OF BURIED UTILITIES IS NOT A GUARANTEE. THE RESULTS ARE BASED ON THE ELECTRONIC EQUIPMENT'S SIGNAL INTERPRETATION AND MAY BE SUBJECT TO AND/OR AFFECTED BY SOIL, WATER, GROUND OR OTHER CONDITIONS. THEREFORE, THE DESIGNER AND THE CONTRACTOR MUST EXERCISE CAUTION IN THE DESIGN AND EXCAVATION OF THE PROJECT FOR ANY SPECIFIED LOCATION.

**ABBREVIATIONS**

AC	ASPHALT CONCRETE	L	LEFT
APPROX.	APPROXIMATE	LF	LINEAR FEET
BC	BOTTOM CURB	MAX.	MAXIMUM
BFP	BACK FLOW PREVENTER	MH	MANHOLE
B	BASELINE	MIN.	MINIMUM
BW	BOTTOM WALL	O/H	OVERHEAD
CB	CATCH BASIN	O/S	OFFSET
CLF	CHAIN LINK FENCE	O.C.	ON CENTER
CMU	CONCRETE MASONRY UNIT (HOLLOW TILE)	OHWM	ORDINARY HIGH WATER MARK
CO	CLEAN OUT	PC	POINT OF CURVATURE
CONC	CONCRETE	PL	PROPERTY LINE
CRM	CONCRETE RUBBLE MASONRY (ROCK) WALL	PP	POWER POLE
CY	CUBIC YARD	PT	POINT OF TANGENT
D	DIAMETER OR DRAIN	PVC	POLYVINYL CHLORIDE
DI	DRAIN INLET	R	RIGHT
DWY	DRIVEWAY	RC	REINFORCED CONCRETE
ELEC	ELECTRIC	SDMH	STORM DRAIN MANHOLE
EVB	ELEVATION	SF	SQUARE FEET
EMB	EMBANKMENT	SMH	SEWER MANHOLE
ESCP	EROSION AND SEDIMENT CONTROL PLAN	STA	STATION
EXC	EXCAVATION	TBM	TEMPORARY BENCHMARK
EXIST.	EXISTING	TC	TOP CURB
FND	FOUND	TEL	TELEPHONE
G	GROUND	TP	TOP PIPE
GW	GUY WIRE	TS	TOP STEM
H	HEIGHT	TW	TOP WALL
HB	HOSE BIB	UP	UTILITY POLE
ICV	IRRIGATION CONTROL VALVE	UP/SL	UTILITY POLE / STREET LIGHT
IFL	IRON FENCE LINE	WDF	WOODEN FENCE
INV	INVERT	WM	WATER METER
		WMH	WATER MANHOLE
		WV	WATER VALVE BOX

**GENERAL LEGEND**

	BASELINE
	PROPERTY LINE
	BORING NUMBER AND LOCATION, SEE SHEET C004 FOR BORING LOGS

REVISION	DATE	SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION			
<b>MANOA STREAM AT KAHALOA DRIVE EROSION CONTROL IMPROVEMENTS</b>			
2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25			
NOTES, LEGENDS, AND ABBREVIATIONS			
DESIGN: JC	APPROVED:	DRAWING NO.	
DRAWN: JT	DATE: NOVEMBER 2025	<b>C002</b>	
CHECKED: JTM		CHEF, CIVIL DIVISION, DDC	SHEET <b>2</b>
DATE: NOVEMBER 2025	FILE	DRAW	FOLDER
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
NUMBER			

**EROSION PREVENTION / SEDIMENT CONTROL NOTES:**

- THE CONTRACTOR SHALL FOLLOW THE GUIDELINES IN THE CITY AND COUNTY OF HONOLULU'S "RULES RELATING TO WATER QUALITY".
- MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY CONSTRUCTION IS INITIATED.
- SLOPE PROTECTION**  
SLOPE PROTECTION IS REQUIRED ON AREAS WITH SLOPES GREATER THAN 15% AND ON AREAS OF MODERATE SLOPE THAT ARE PRONE TO EROSION UNLESS THEY ARE BEING ACTIVELY WORKED. USE DIVERSION UPSTREAM OF SLOPE (DIKES, SWALES, SLOPE DRAINS) TO DIVERT WATER AROUND THE SLOPE. PROVIDE A 10-FT BUFFER ZONE AT THE TOE OF SLOPE. ONLY FIVE (5) ACRES MAY BE DISTURBED AT ANY TIME ON SLOPES GREATER THAN 15%.
- TEMPORARY STABILIZATION**  
TEMPORARY STABILIZATION IS REQUIRED ON DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHEN THE DISTURBED AREA WILL NOT BE WORKED FOR 14 CONSECUTIVE DAYS OR MORE.
- PERMANENT STABILIZATION**  
ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED USING VEGETATIVE COVERING, PAVEMENT, OR EQUIVALENT, PRIOR TO REMOVING EROSION AND SEDIMENT MEASURES. TRAPPED SEDIMENT AND AREAS OF DISTURBED SOIL WHICH RESULT FROM THE REMOVAL OF THE TEMPORARY MEASURES SHALL BE IMMEDIATELY AND PERMANENTLY STABILIZED.
- PRESERVE EXISTING VEGETATION**  
CLEARLY MARK THE AREAS TO BE PRESERVED WITH FLAGS OR TEMPORARY FENCING. WHERE TEMPORARY FENCING IS USED, FENCING MUST BE ADEQUATELY SUPPORTED BY POSTS AND MAINTAINED IN AN UPRIGHT POSITION.
- MINIMIZE SOIL COMPACTION**  
MINIMIZE SOIL COMPACTION AREAS WHERE FINAL STABILIZATION OR INFILTRATION PRACTICES WILL BE INSTALLED SHALL BE PROTECTED FROM EXCESSIVE COMPACTION DURING CONSTRUCTION. VEHICLE AND EQUIPMENT USE SHALL BE RESTRICTED OR TECHNIQUES TO CONDITION THE SOILS TO SUPPORT VEGETATION SHALL BE IMPLEMENTED IN THE AREAS THAT HAVE BEEN COMPACTED AND ARE DESIGNATED TO REMAIN VEGETATIVE OR POST-CONSTRUCTION INFILTRATION AREAS. CLEARLY MARK THE AREAS TO BE AVOIDED WITH FLAGS OR TEMPORARY FENCING. WHERE TEMPORARY FENCING IS USED, FENCING MUST BE ADEQUATELY SUPPORTED BY POSTS AND MAINTAINED IN AN UPRIGHT POSITION.
- PERIMETER CONTROLS**  
PERIMETER CONTROLS ARE REQUIRED DOWNSLOPE OF ALL DISTURBED AREAS. MAINTAIN DOWNSTREAM VEGETATED BUFFER AREA.
- INLET PROTECTION**
  - ALL STORM DRAIN INLETS ONSITE AND THOSE OFFSITE WHICH MAY RECEIVE RUNOFF FROM THE SITE SHALL USE AN INLET PROTECTION DEVICE UNLESS THEY ARE DIRECTED TO A SEDIMENT BASIN.
  - SEDIMENT LEVELS MAY NOT EXCEED ONE THIRD OF THE HEIGHT OF A SEDIMENT BARRIER OR INLET PROTECTION DEVICE AT ANY POINT ALONG THE LENGTH OF THE SEDIMENT BARRIER OR THE INLET PROTECTION DEVICE.
  - SEDIMENT BARRIERS AND INLET PROTECTION DEVICES MUST BE UNCLOGGED AND CLEANED WHEN PERFORMANCE IS COMPROMISED.
  - TORN, WEATHERED OR SAGGING SEDIMENT BARRIERS OR INLET PROTECTION DEVICES MUST BE REPAIRED OR REPLACED IMMEDIATELY.
- TRACKING CONTROL**
  - TRACKING CONTROL MINIMIZE SEDIMENT TRACK-OUT ONTO OFF-SITE STREETS, OTHER PAVED AREAS, AND SIDEWALKS FROM VEHICLES EXITING THE CONSTRUCTION SITE BY RESTRICTING VEHICLE TRAFFIC TO PROPERLY DESIGNATED AREAS AND USING ADDITIONAL CONTROLS TO REMOVE SEDIMENT FROM VEHICLE TIRES PRIOR TO EXITING THE SITE.
  - VEHICULAR PARKING AND MOVEMENTS ON PROJECT SITES MUST BE CONFINED TO PAVED SURFACES OR PREDEFINED PARKING AREAS AND VEHICLE PATHS, WHICH SHALL BE MARKED WITH FLAGS OR BOUNDARY FENCING.
  - ALL POLLUTANTS AND MATERIALS THAT ARE DROPPED, WASHED, TRACKED, SPILLED, OR OTHERWISE DISCHARGED FROM A PROJECT SITE TO OFF-SITE STREETS, OTHER PAVED AREAS, SIDEWALKS OR THE MUNICIPAL SEPARATE STORM SEWER SYSTEM MUST BE CLEANED USING DRY METHODS SUCH AS SWEEPING OR VACUUMING.
  - WASHING POLLUTANTS AND MATERIALS THAT ARE DISCHARGED FROM THE PROJECT SITE TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM INTO DRAIN INLETS OR CATCH BASINS IS PROHIBITED UNLESS THE MATERIAL IS SEDIMENT AND THE INLETS ARE DIRECTED TO A SEDIMENT BASIN OR SEDIMENT TRAP.
- BEST MANAGEMENT PRACTICES (BMPs) SHALL NOT BE REMOVED UNTIL FINAL STABILIZATION IS COMPLETE FOR THAT PHASE.
- REFER TO CITY AND COUNTY OF HONOLULU BEST MANAGEMENT PRACTICES MANUAL – CONSTRUCTION, FOR MORE INFORMATION ON BMPs. REFER TO CITY AND COUNTY OF HONOLULU BEST MANAGEMENT PRACTICES MANUAL – CONSTRUCTION, FOR MORE INFORMATION ON BMPs.
- THE FOLLOWING BMPs WERE DETERMINED TO BE NOT APPLICABLE BASED ON THE SPECIFIC SITE CONDITIONS. A BRIEF EXPLANATION OF WHY EACH OMITTED BMP IS UNNECESSARY OR IMPRACTICABLE FOR THE PROJECT HAS BEEN PROVIDED UNDER SEPARATE DOCUMENTATION TO DPP. AS CONSTRUCTION PROGRESSES, REVISIONS MAY BE NECESSARY AND WILL BE PROVIDED TO DPP INSPECTORS.
  - VELOCITY DISSIPATION DEVICES
  - DIVERSION BMPs TO DIVERT RUNOFF FROM UPSTREAM AREAS
  - SEDIMENT BARRIERS
  - SEDIMENT BASINS
  - DEWATERING PRACTICES
  - SEDIMENT TRAPS
- THE CONTRACTOR SHALL COMPLY WITH THE PROJECT SCHEDULING REQUIREMENTS OF THE CITY'S RULES RELATING TO WATER QUALITY. THE CONTRACTOR SHALL COMPLY WITH THE PROJECT SCHEDULING REQUIREMENTS OF THE CITY'S RULES RELATING TO WATER QUALITY.

**EROSION PREVENTION / SEDIMENT CONTROL NOTES (cont'):**

- THE OWNER OF THE PROPERTY OR THEIR AUTHORIZED AGENT MUST DESIGNATE A PERSON RESPONSIBLE FOR IMPLEMENTING THE ESCP AT THE PROJECT SITE ("ESCP COORDINATOR") PRIOR TO PERMIT ISSUANCE USING THE FORM PROVIDED AS APPENDIX A TO THE RULES RELATING TO WATER QUALITY.
- GOOD HOUSEKEEPING BMPs:**
  - STREET SWEEPING AND VACUUMING**  
ALL POLLUTANTS DISCHARGED FROM CONSTRUCTION SITE TO OFF-SITE AREAS MUST BE SWEEPED OR VACUUMED EACH DAY BEFORE LEAVING THE JOB SITE.
  - MATERIALS DELIVERY, STORAGE AND USE MANAGEMENT**  
PREVENT, REDUCE, OR ELIMINATE THE DISCHARGE OF POLLUTANTS FROM MATERIAL DELIVERY, STORAGE, AND USE TO THE STORM WATER SYSTEM OR WATERCOURSES BY MINIMIZING THE STORAGE OF HAZARDOUS MATERIALS ONSITE, STORING MATERIALS IN A DESIGNATED AREA, INSTALLING SECONDARY CONTAINMENT. CONSTRUCTION MATERIALS, WASTE, TOXIC AND HAZARDOUS SUBSTANCES, STOCKPILES AND OTHER SOURCES OF POLLUTION SHALL NOT BE STORED IN BUFFER AREAS, NEAR AREAS OF CONCENTRATED FLOW, OR AREAS ADJUTING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, RECEIVING WATERS, OR DRAINAGE IMPROVEMENTS THAT DISCHARGE OFF-SITE. PRIMARY AND SECONDARY CONTAINMENT CONTROLS AND COVERS SHALL BE IMPLEMENTED TO THE MEP.
  - SPILL PREVENTION AND CONTROL**  
CREATE AND IMPLEMENT SPILL PREVENTION AND RESPONSE PLANS TO ELIMINATE AND MINIMIZE THE DISCHARGE OF POLLUTANTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM AND RECEIVING WATERS FROM LEAKS AND SPILLS BY REDUCING THE CHANCE FOR SPILLS, ABSORBING, CONTAINING, AND CLEANING UP SPILLS AND PROPERLY DISPOSING OF SPILL MATERIALS. AT MINIMUM, ALL PROJECTS SHALL CLEANUP ALL LEAKS AND SPILLS IMMEDIATELY.
  - HAZARDOUS MATERIALS**  
PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM HAZARDOUS WASTE THROUGH PROPER MATERIAL USE AND WASTE DISPOSAL. IN THE EVENT THAT HAZARDOUS MATERIALS ARE DISCHARGED TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, THE PROPERTY OWNER OR ESCP COORDINATOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF FACILITY MAINTENANCE, HONOLULU FIRE DEPARTMENT, AND HONOLULU POLICE DEPARTMENT OF THE DISCHARGE BY TELEPHONE. A WRITTEN REPORT DESCRIBING THE POLLUTANTS THAT WERE DISCHARGED, THE REASONS FOR THE DISCHARGE, AND THE MEASURES THAT HAVE BEEN TAKEN OR WILL BE TAKEN TO PREVENT A REOCCURRENCE OF THE DISCHARGE SHALL BE SUBMITTED TO THE DIRECTOR NO LESS THAN THREE (3) DAYS AFTER NOTIFICATION BY PHONE.
  - NONHAZARDOUS MATERIALS**  
IN THE EVENT THAT NONHAZARDOUS MATERIALS ARE DISCHARGED TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, THE PROPERTY OWNER OR ESCP COORDINATOR SHALL NOTIFY THE CITY DEPARTMENT OF FACILITY MAINTENANCE BY TELEPHONE NO LATER THAN THE NEXT BUSINESS DAY. A WRITTEN REPORT DESCRIBING THE POLLUTANTS THAT WERE DISCHARGED, THE REASONS FOR THE DISCHARGE, AND THE MEASURES THAT HAVE BEEN TAKEN OR WILL BE TAKEN TO PREVENT A REOCCURRENCE OF THE DISCHARGE SHALL BE SUBMITTED TO THE DIRECTOR NO LESS THAN THREE (3) DAYS AFTER NOTIFICATION BY PHONE.
  - VEHICLE AND EQUIPMENT CLEANING**  
ELIMINATE AND MINIMIZE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM VEHICLE AND EQUIPMENT CLEANING OPERATIONS BY USING OFF-SITE FACILITIES WHEN FEASIBLE, WASHING IN DESIGNATED, CONTAINED AREAS ONLY, AND ELIMINATING DISCHARGES TO THE STORM DRAIN SYSTEM BY EVAPORATING AND/ OR TREATING WASH WATER, AS APPROPRIATE OR INFILTRATING WASH WATER FOR EXTERIOR CLEANING ACTIVITIES THAT USE WATER ONLY.
  - VEHICLE AND EQUIPMENT FUELING**  
PREVENT FUEL SPILLS AND LEAKS BY USING OFF-SITE FACILITIES, FUELING ONLY IN DESIGNATED AREAS, ENCLOSING OR COVERING STORED FUEL, AND IMPLEMENTING SPILL CONTROLS SUCH AS SECONDARY CONTAINMENT AND ACTIVE MEASURES USING SPILL RESPONSE KITS.
  - VEHICLE AND EQUIPMENT MAINTENANCE**  
ELIMINATE AND MINIMIZE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM VEHICLE AND EQUIPMENT OPERATIONS BY USING OFF-SITE MAINTENANCE FACILITIES WHEN FEASIBLE, PERFORMING WORK IN DESIGNATED AREAS ONLY, USING SPILL PADS UNDER VEHICLES AND EQUIPMENT, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY.
  - SOLID WASTE MANAGEMENT**  
PREVENT OR REDUCE DISCHARGE OF POLLUTANTS TO THE LAND, GROUNDWATER, AND IN STORM WATER FROM SOLID WASTE OR CONSTRUCTION AND DEMOLITION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS, COLLECT SITE TRASH DAILY, AND ENSURING THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS.
  - SANITARY/SEPTIC WASTE MANAGEMENT**  
TEMPORARY AND PORTABLE SANITARY AND SEPTIC WASTE SYSTEMS SHALL BE MOUNTED OR STAKED IN, WELL-MAINTAINED AND SCHEDULED FOR REGULAR WASTE DISPOSAL AND SERVICING. SOURCES OF SANITARY AND/OR SEPTIC WASTE SHALL NOT BE STORED NEAR THE MUNICIPAL SEPARATE STORM SEWER SYSTEM OR RECEIVING WATERS.
  - STOCKPILE MANAGEMENT**  
STOCKPILES SHALL NOT BE LOCATED IN DRAINAGE WAYS, WITHIN 50 FEET FROM AREAS OF CONCENTRATED FLOWS, AND ARE NOT ALLOWED IN THE CITY RIGHT-OF-WAY. SEDIMENT BARRIERS OR SILT FENCE SHALL BE USED AROUND THE BASE OF ALL STOCKPILES. STOCKPILES SHALL NOT EXCEED 15 FEET IN HEIGHT. STOCKPILES GREATER THAN 15 FEET IN HEIGHT SHALL REQUIRE 8-FOOT-WIDE BENCHING IN ACCORDANCE WITH ROH CHAPTER 18A, ARTICLE 3. STOCKPILES MUST BE COVERED WITH PLASTIC SHEETING OR A COMPARABLE MATERIAL IF THEY WILL NOT BE ACTIVELY USED WITHIN SEVEN (7) DAYS.
  - LIQUID WASTE MANAGEMENT**  
LIQUID WASTE SHALL BE CONTAINED IN A CONTROLLED AREA SUCH AS A HOLDING PIT, SEDIMENT BASIN, ROLL-OFF BIN, OR PORTABLE TANK OF SUFFICIENT VOLUME AND TO CONTAIN THE LIQUID WASTES GENERATED. CONTAINMENT AREAS OR DEVICES MUST BE IMPERMEABLE AND LEAK FREE AND SHOULD NOT BE LOCATED WHERE ACCIDENTAL RELEASE OF THE CONTAINED LIQUID CAN DISCHARGE TO WATER BODIES, CHANNELS, OR STORM DRAINS.

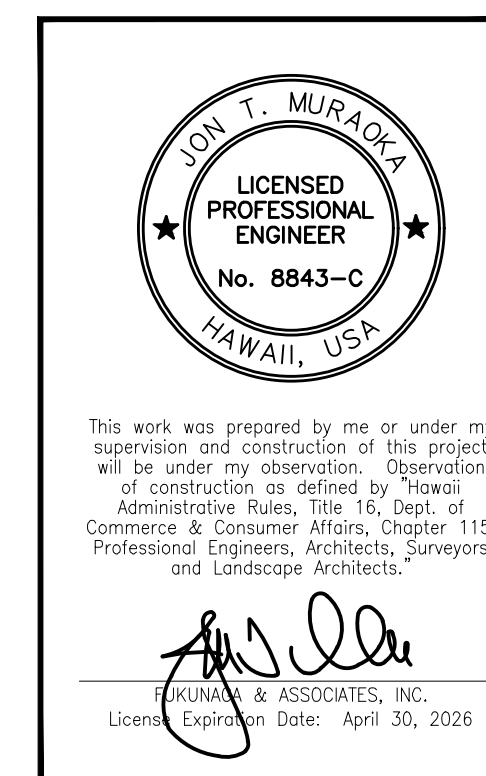
**GOOD HOUSEKEEPING BMPs (cont'):**

- CONCRETE WASTE MANAGEMENT**  
PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFFSITE OR PERFORMING ONSITE WASHOUT IN A DESIGNATED AREA CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. PLASTIC LINING MATERIAL CONTAINMENT AREAS OR DEVICES SHOULD NOT BE LOCATED WHERE ACCIDENTAL RELEASE OF THE CONTAINED LIQUID CAN DISCHARGE TO WATER BODIES, CHANNELS, OR STORM DRAINS. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75 PERCENT FULL. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF AS SOLID WASTES.
- CONTAMINATED SOIL MANAGEMENT**  
AT MINIMUM CONTAIN CONTAMINATED MATERIAL SOIL BY SURROUNDING WITH IMPERMEABLE LINED BERMS OR COVER EXPOSED CONTAMINATED MATERIAL WITH PLASTIC SHEETING. CONTAMINATED SOIL SHOULD BE DISPOSED OF PROPERLY IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- DUST CONTROL**  
DUST FROM A PROJECT SITE SHALL NOT BE TRANSPORTED OR DISCHARGED TO OFF-SITE AREAS. THE WORK MUST BE IN CONFORMANCE WITH AIR POLLUTION CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES: TITLE 11 CHAPTER 60.1 "AIR POLLUTION CONTROL." ALL ESCPS SHALL PROVIDE FOR THE CONTROL OF DUST BY ONE OR MORE OF THE FOLLOWING:
  - MULCHING TO A DEPTH OF NO LESS THAN 1 INCH.
  - SPRINKLING EXPOSED SOILS WITH WATER TO MAINTAIN MOISTNESS AT A DEPTH OF 2-3 INCHES DURING WORKING HOURS AND NOT TO GENERATE ANY RUNOFF.
  - VERTICAL DUST BARRIERS NO LESS THAN 6 FEET IN HEIGHT, CONSTRUCTED OF MATERIALS CAPABLE OF EFFECTIVELY PREVENTING THE SPREAD OF DUST PARTICLES.
- BMP AND SITE MAINTENANCE**  
ALL ESCP BMPs SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. ADDITIONAL BMPs SHALL BE IMPLEMENTED AS NECESSARY TO ADDRESS EROSION AND SEDIMENT CONTROL AT THE PROJECT SITE.

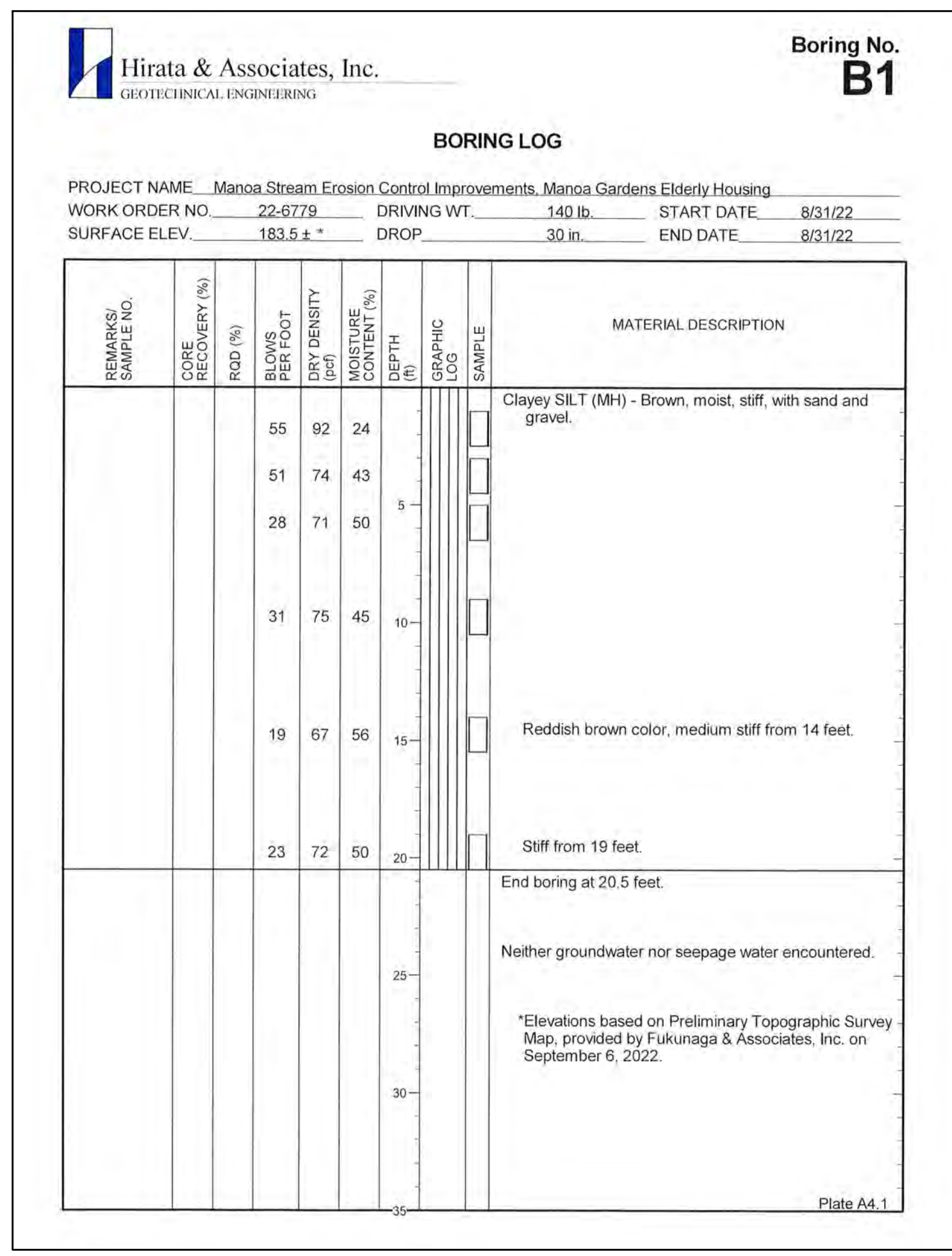
**MISCELLANEOUS NOTES:**

- HAWAIIAN HOARY BAT BIRTHING AND PUP REARING SEASON IS JUNE 1 THROUGH SEPTEMBER 15. DO NOT DISTURB, REMOVE, OR TRIM WOODY PLANTS GREATER THAN 15 FEET TALL DURING HAWAII HOARY BAT BIRTHING AND PUP REARING SEASON.
- DURING WHITE NESTING TURN BREEDING SEASON, A SURVEY FOR WHITE NESTING TURNS MUST BE CONDUCTED PRIOR TO REMOVING TREES. IF A WHITE NESTING TURN EGG OR CHICK IS FOUND, THE NESTING TREE OR BRANCH MUST NOT BE DISTURBED UNTIL THE CHICK HAS FLEDGED. WHITE NESTING TURN BREEDING SEASON IS FROM THE BEGINNING OF JANUARY TO THE END OF JUNE.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MINIMIZE THE CREATION OF STAGNANT WATERS WHICH MAY INCREASE MOSQUITO POPULATIONS.

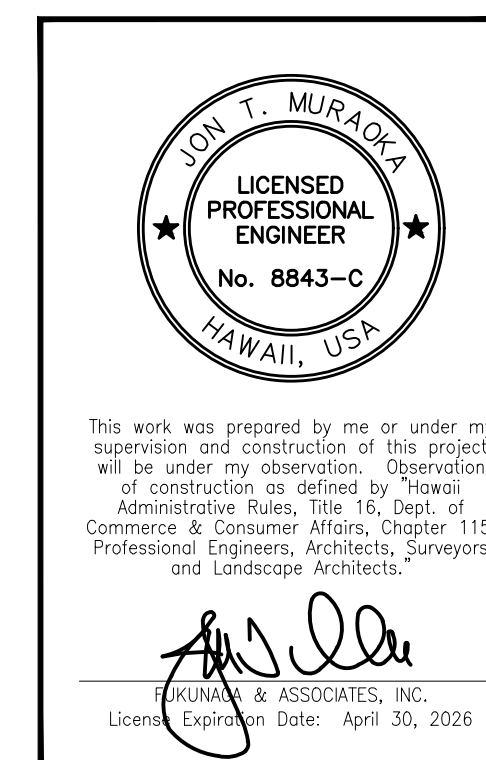
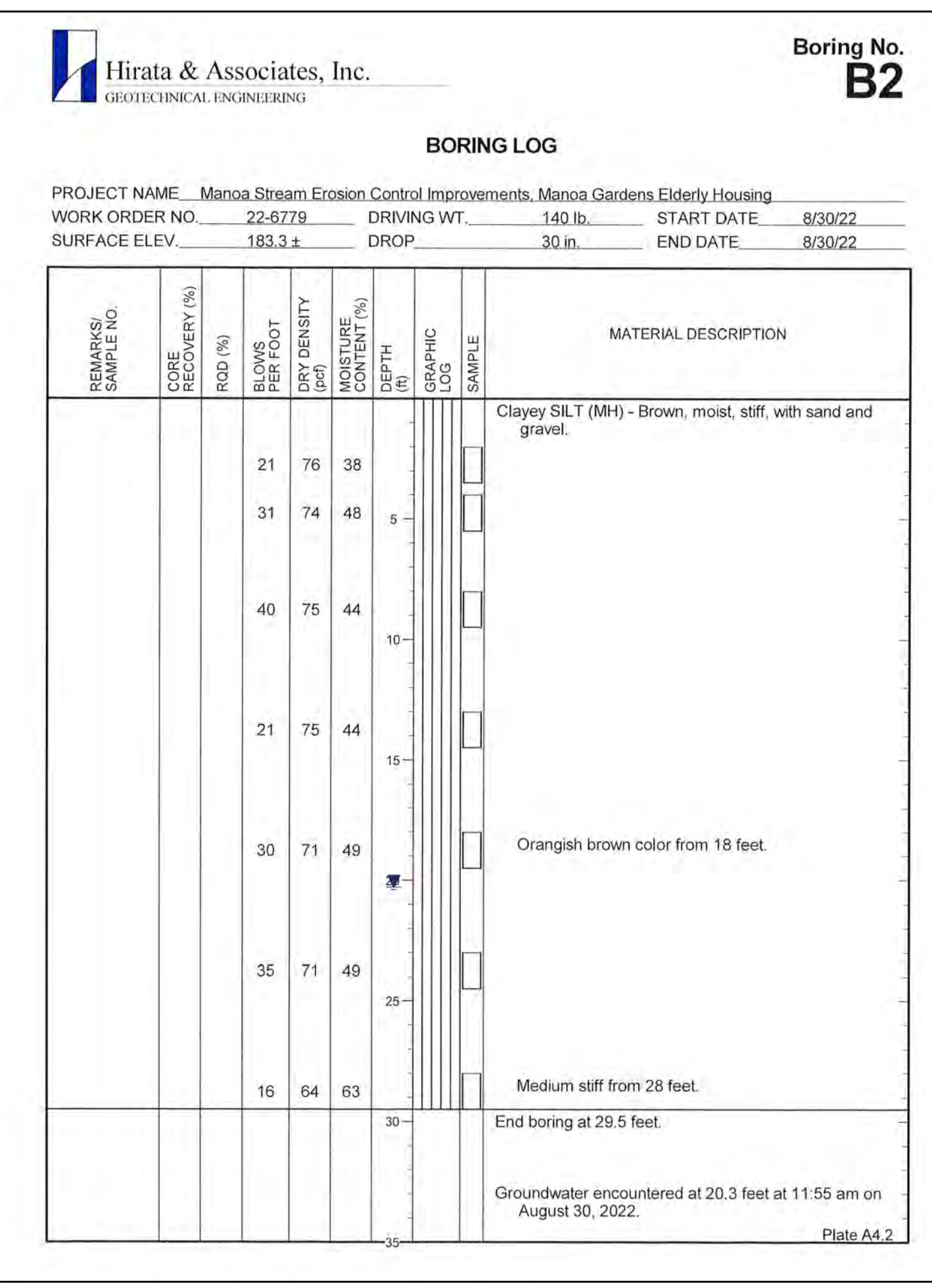
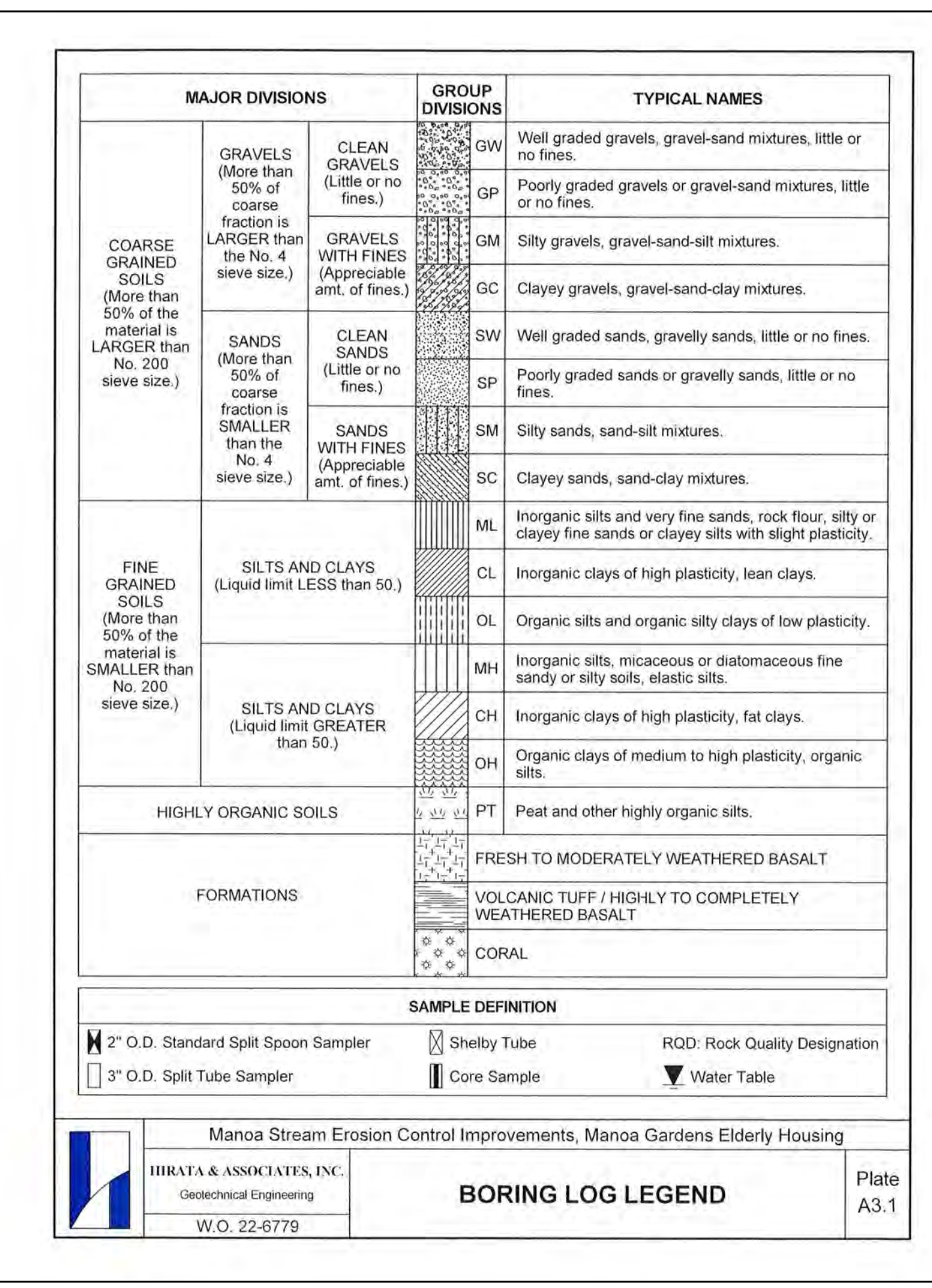
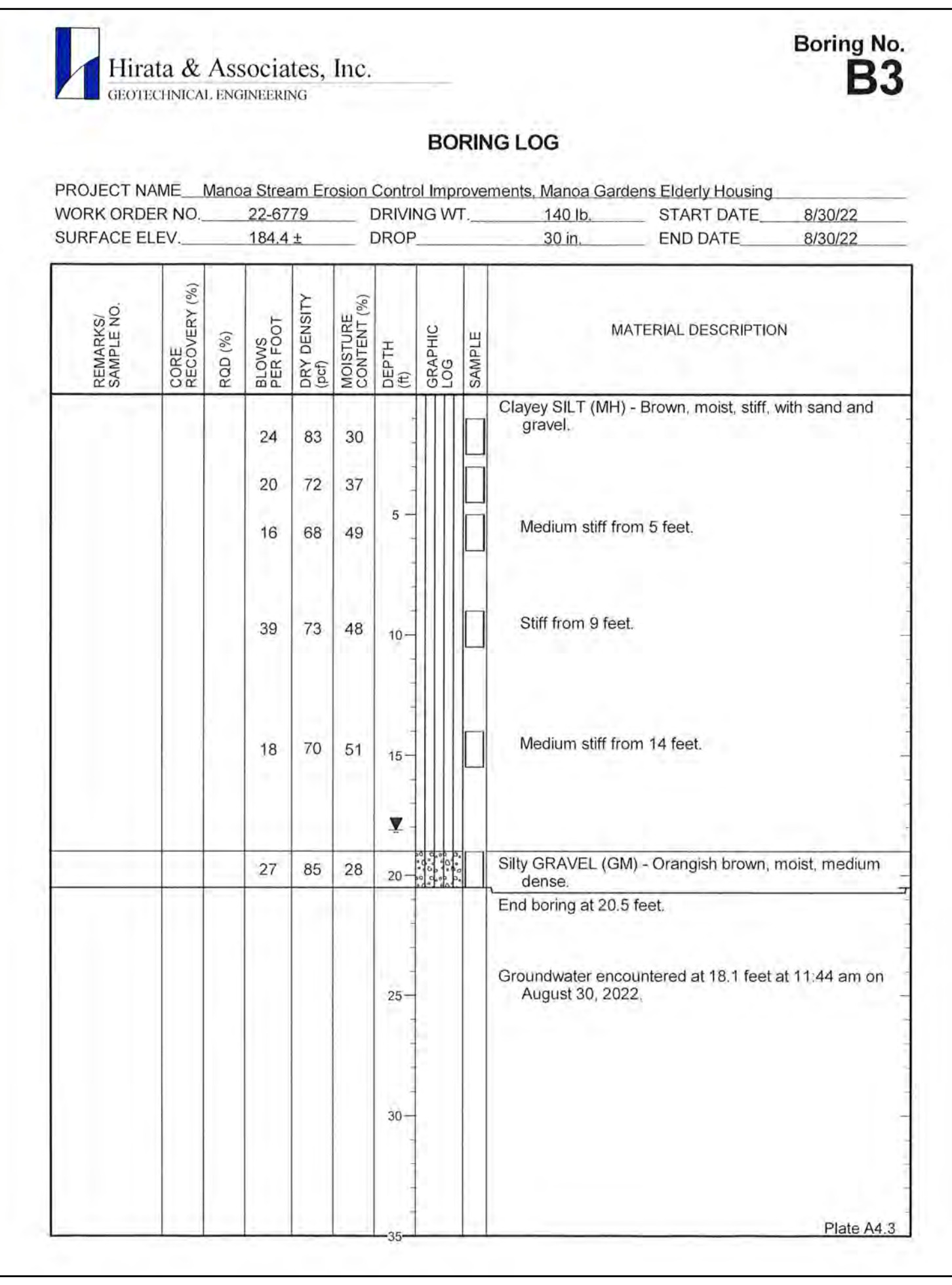
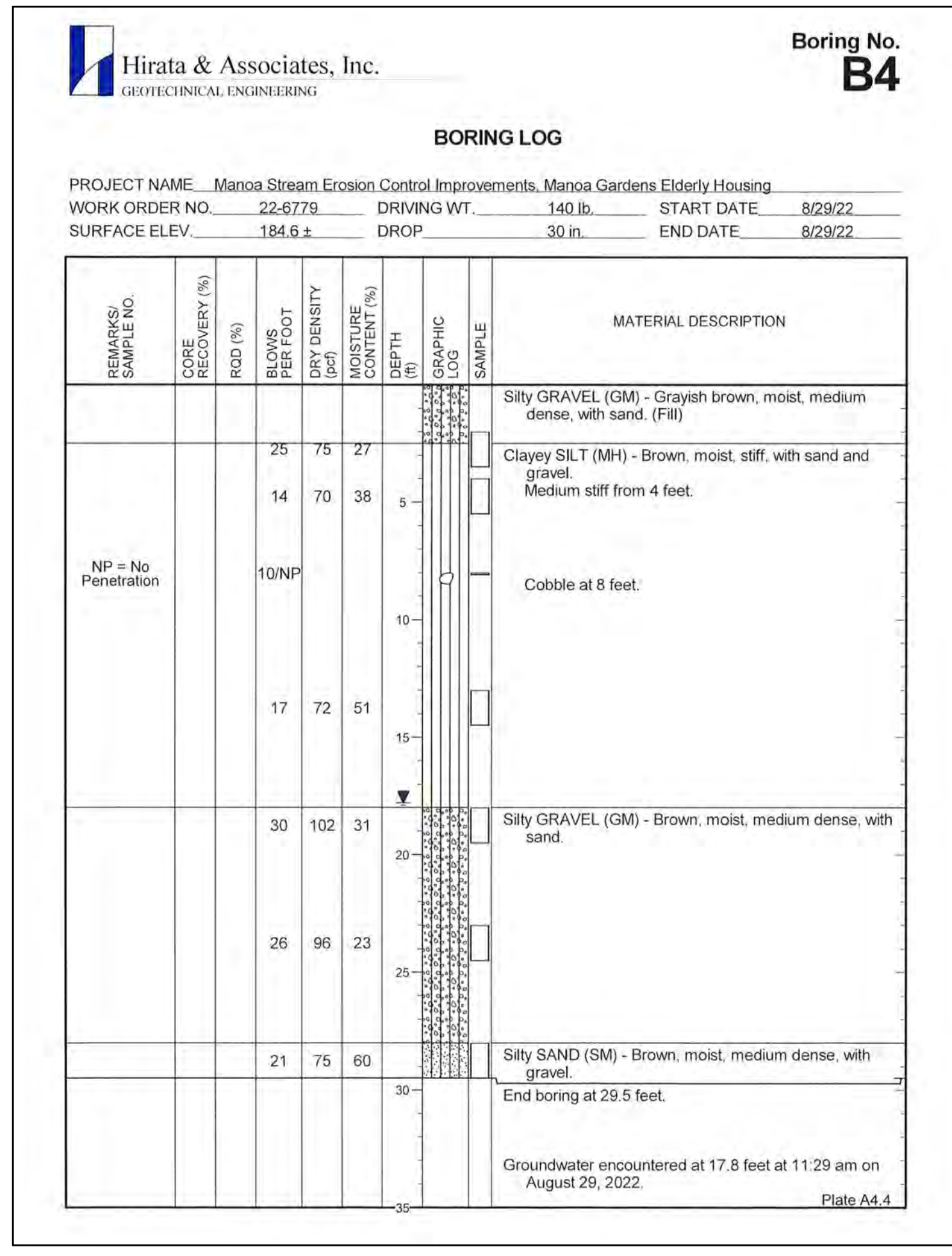
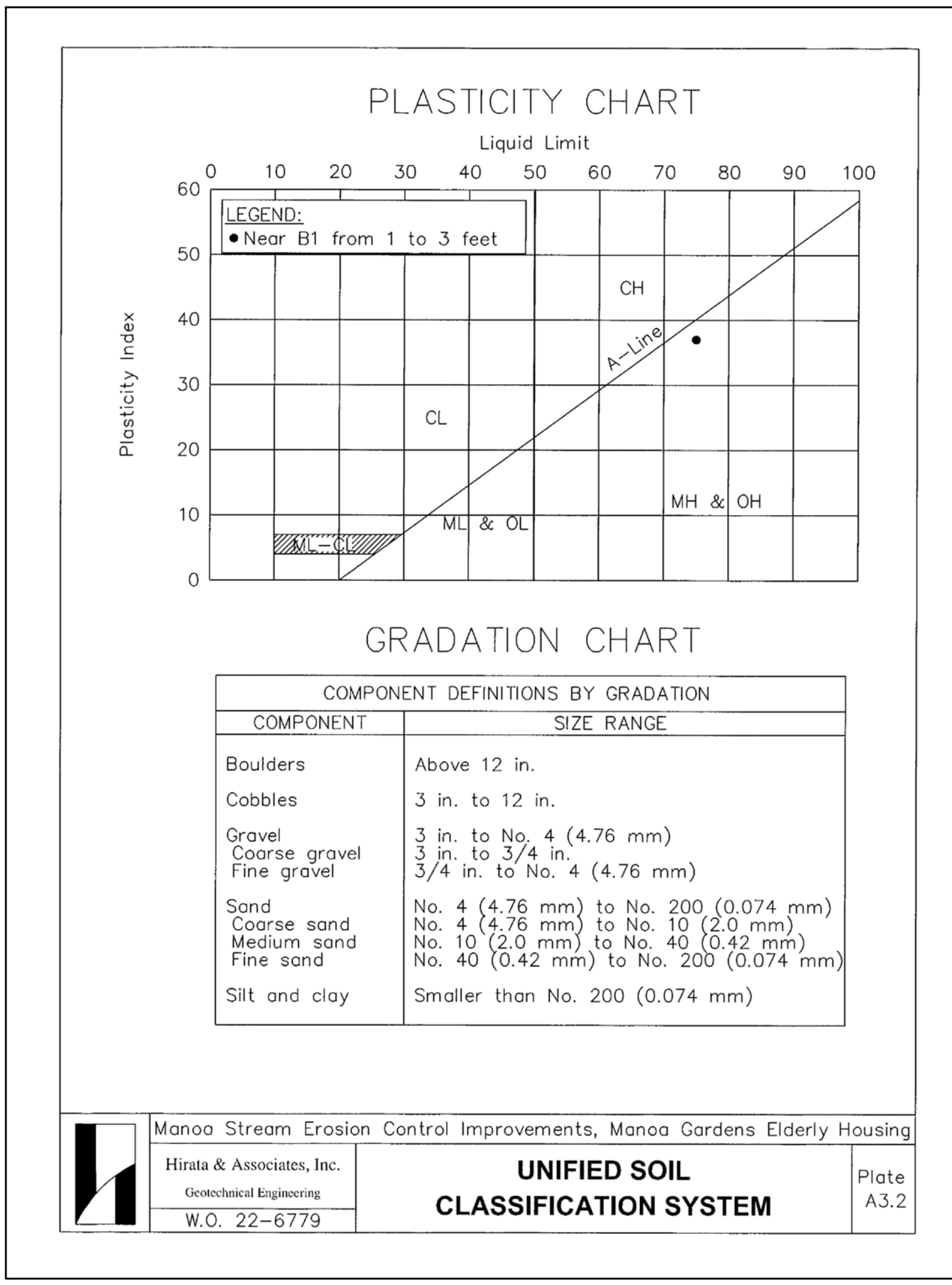
REVISION	DATE	SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION  <b>MANOA STREAM AT KAHALOA DRIVE                  EROSION CONTROL IMPROVEMENTS</b> 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25			
EROSION AND SEDIMENT CONTROL PLAN NOTES			
DESIGN: JC	APPROVED:	DRAWING NO. <b>C003</b>	
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>3</b>	
CHECKED: JTM	DATE	OF <b>16</b> SHEETS	
DATE: NOVEMBER 2025			
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
			NUMBER



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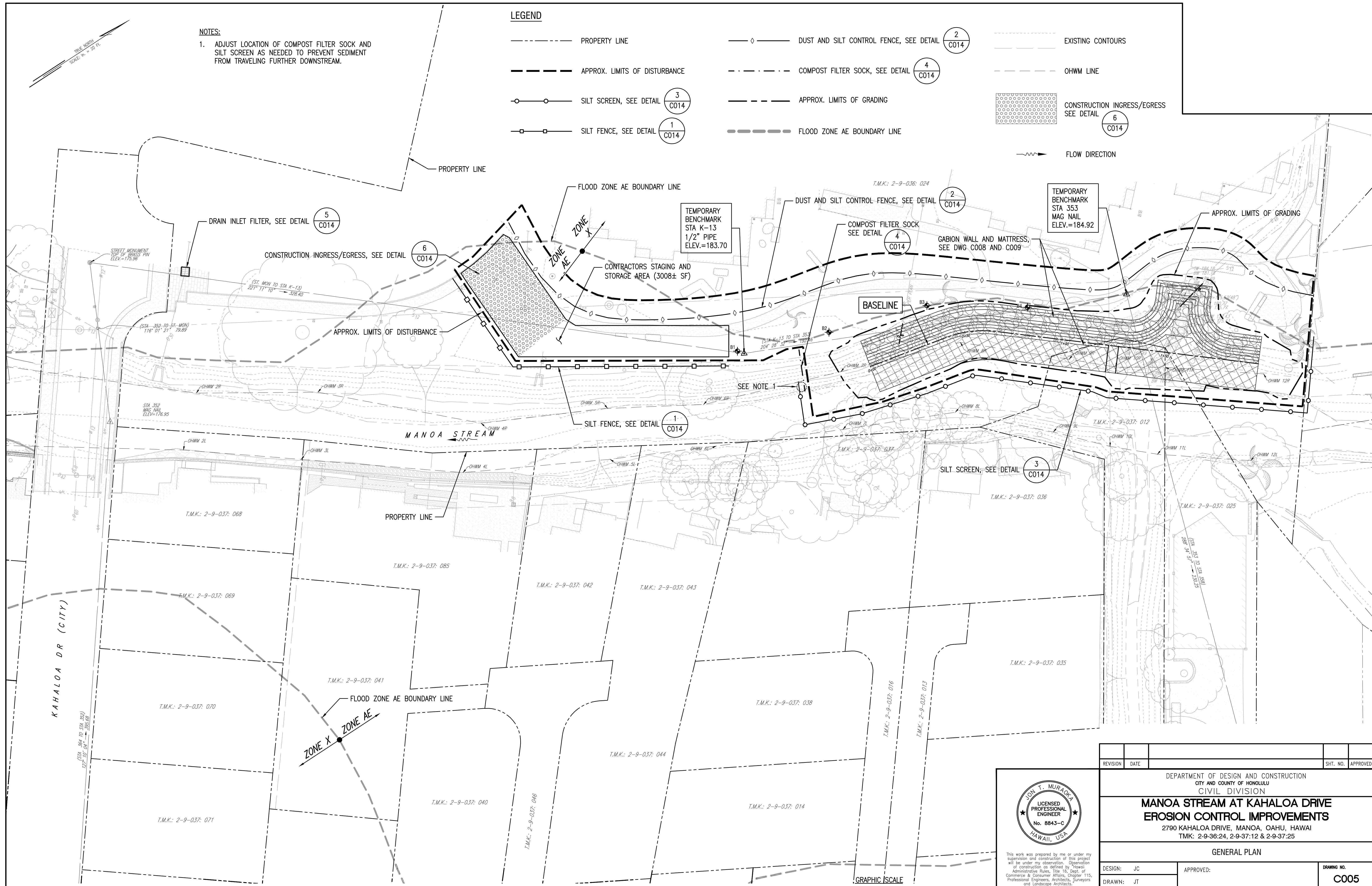
- NOTES:**
1. THE INFORMATION SHOWN IN THE BORING LOGS WERE OBTAINED FOR THE USE OF THE ENGINEER.
  2. THE ENGINEER WILL NOT BE HELD RESPONSIBLE IF THE INFORMATION IS FOUND ERRONEOUS AND/OR DOES NOT INDICATE THE TRUE CONDITIONS.
  3. NO GUARANTEE IS GIVEN AS TO THE CHARACTER OF THE MATERIAL ENCOUNTERED IN ANY BORING NOR IS ANY GUARANTEE GIVEN THAT THE BORING REPRESENTS THE TRUE CHARACTER OF THE MATERIAL WHICH WILL BE EXCAVATED AND WHICH WILL UNDERLIE THE PROPOSED STRUCTURE. THE CITY AND COUNTY OF HONOLULU ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY AND/OR SUFFICIENCY OF THE BORING AND ANY INTERPRETATION MADE THEREOF AND WILL MAKE NO GUARANTEE OF THE SAME.
  4. THE INFORMATION FOR THE BORING LOGS WERE TAKEN FROM A GEOTECHNICAL REPORT PREPARED FOR THE PROJECT BY HIRATA & ASSOCIATES, INC., DATED MARCH 20, 2017.
  5. THE BORING LOGS INDICATE THE APPROXIMATE SUBSURFACE SOIL CONDITIONS ENCOUNTERED ONLY AT THOSE TIMES AND LOCATIONS WHERE THE BORINGS WERE MADE, AND MAY NOT REPRESENT CONDITIONS AT OTHER TIMES AND LOCATIONS.
  6. SEE SHEET C005 AND C008, FOR APPROXIMATE BORING LOCATIONS.



REVISION	DATE	SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION			
<b>MANOA STREAM AT KAHALOA DRIVE EROSION CONTROL IMPROVEMENTS</b>			
2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25			
BORING LOG LEGEND, UNIFIED SOIL CLASSIFICATION SYSTEM, BORING NO. 1, NO. 2, NO. 3, NO. 4 AND NOTES			
DESIGN: JC	APPROVED:	DRAWING NO. <b>C004</b>	
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>4</b>	
CHECKED: JTM	DATE	OF 16 SHEETS	
DATE: NOVEMBER 2025			
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
			NUMBER

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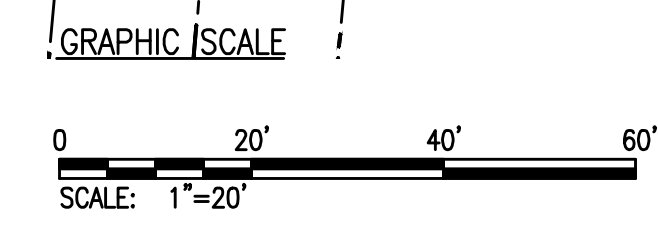


**NOTES:**  
 1. ADJUST LOCATION OF COMPOST FILTER SOCK AND SILT SCREEN AS NEEDED TO PREVENT SEDIMENT FROM TRAVELING FURTHER DOWNSTREAM.

**LEGEND**

- PROPERTY LINE
- APPROX. LIMITS OF DISTURBANCE
- SILT SCREEN, SEE DETAIL 3 C014
- SILT FENCE, SEE DETAIL 1 C014
- ◇--- DUST AND SILT CONTROL FENCE, SEE DETAIL 2 C014
- COMPOST FILTER SOCK, SEE DETAIL 4 C014
- APPROX. LIMITS OF GRADING
- FLOOD ZONE AE BOUNDARY LINE
- EXISTING CONTOURS
- OHWM LINE
- CONSTRUCTION INGRESS/EGRESS SEE DETAIL 6 C014
- FLOW DIRECTION

**GENERAL PLAN**  
 SCALE: 1"=20'



**JOHN T. MURAKA**  
 LICENSED PROFESSIONAL ENGINEER  
 No. 8843-C  
 HAWAII, USA

This work was prepared by me or under my supervision and construction of this project will be under my observation. Observation of construction as defined by Hawaii Administrative Rules, Title 16, Dept. of Commerce & Consumer Affairs, Chapter 115, Professional Engineers, Architects, Surveyors and Landscape Architects.

*[Signature]*  
 MURAKA & ASSOCIATES, INC.  
 License Expiration Date: April 30, 2026

REVISION	DATE	SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION			
<b>MANOA STREAM AT KAHALOA DRIVE          EROSION CONTROL IMPROVEMENTS</b> 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25			
GENERAL PLAN			
DESIGN: JC	APPROVED:	DRAWING NO. <b>C005</b>	
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>5</b>	
CHECKED: JTM	DATE	OF 16 SHEETS	
DATE: NOVEMBER 2025			
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
			NUMBER

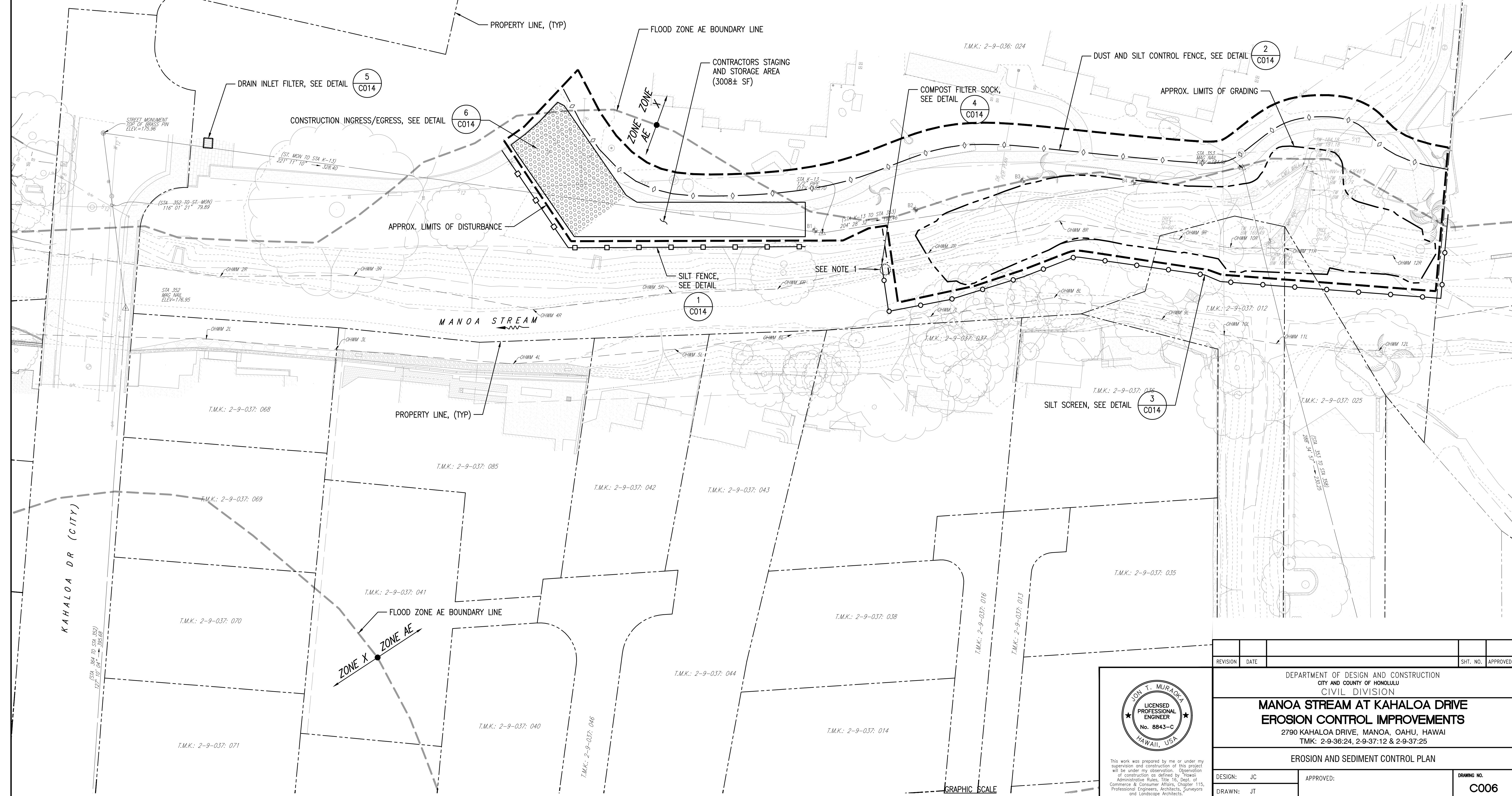
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**NOTES:**

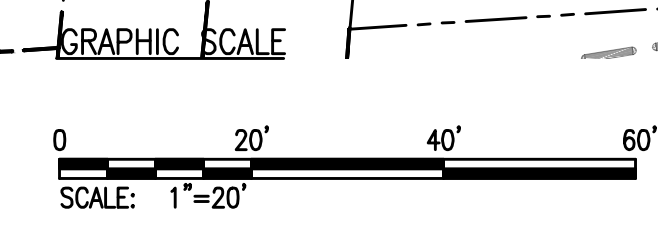
- ADJUST LOCATION OF COMPOST FILTER SOCK AND SILT SCREEN AS NEEDED TO PREVENT SEDIMENT FROM TRAVELING FURTHER DOWNSTREAM.
- PRE-CONSTRUCTION STRUCTURAL CONTROL BMPs:**
- INGRESS/EGRESS
  - PERIMETER CONTROL
- DURING CONSTRUCTION STRUCTURAL CONTROL BMPs:**
- TEMPORARY SLOPE PROTECTION
  - BMPs FOR STOCKPILES, STAGING AREA, PROJECT TRAILERS, MATERIAL STORAGE, ETC.
  - INLET PROTECTION
- POST CONSTRUCTION BMPs:**
- PERMANENT STABILIZATION (GRASS AND GEOTEXTILE)
- GOOD HOUSEKEEPING BMPs:**
- SEE ESCP NOTES ON SHEET C003

**LEGEND**

- PROPERTY LINE
- APPROX. LIMITS OF DISTURBANCE
- SILT SCREEN, SEE DETAIL (3) C014
- SILT FENCE, SEE DETAIL (1) C014
- DUST AND SILT CONTROL FENCE, SEE DETAIL (2) C014
- COMPOST FILTER SOCK, SEE DETAIL (4) C014
- APPROX. LIMITS OF GRADING
- FLOOD ZONE AE BOUNDARY LINE
- EXISTING CONTOURS
- OHWM LINE
- CONSTRUCTION INGRESS/EGRESS SEE DETAIL (6) C014
- FLOW DIRECTION



**EROSION AND SEDIMENT CONTROL PLAN**  
 SCALE: 1"=20'

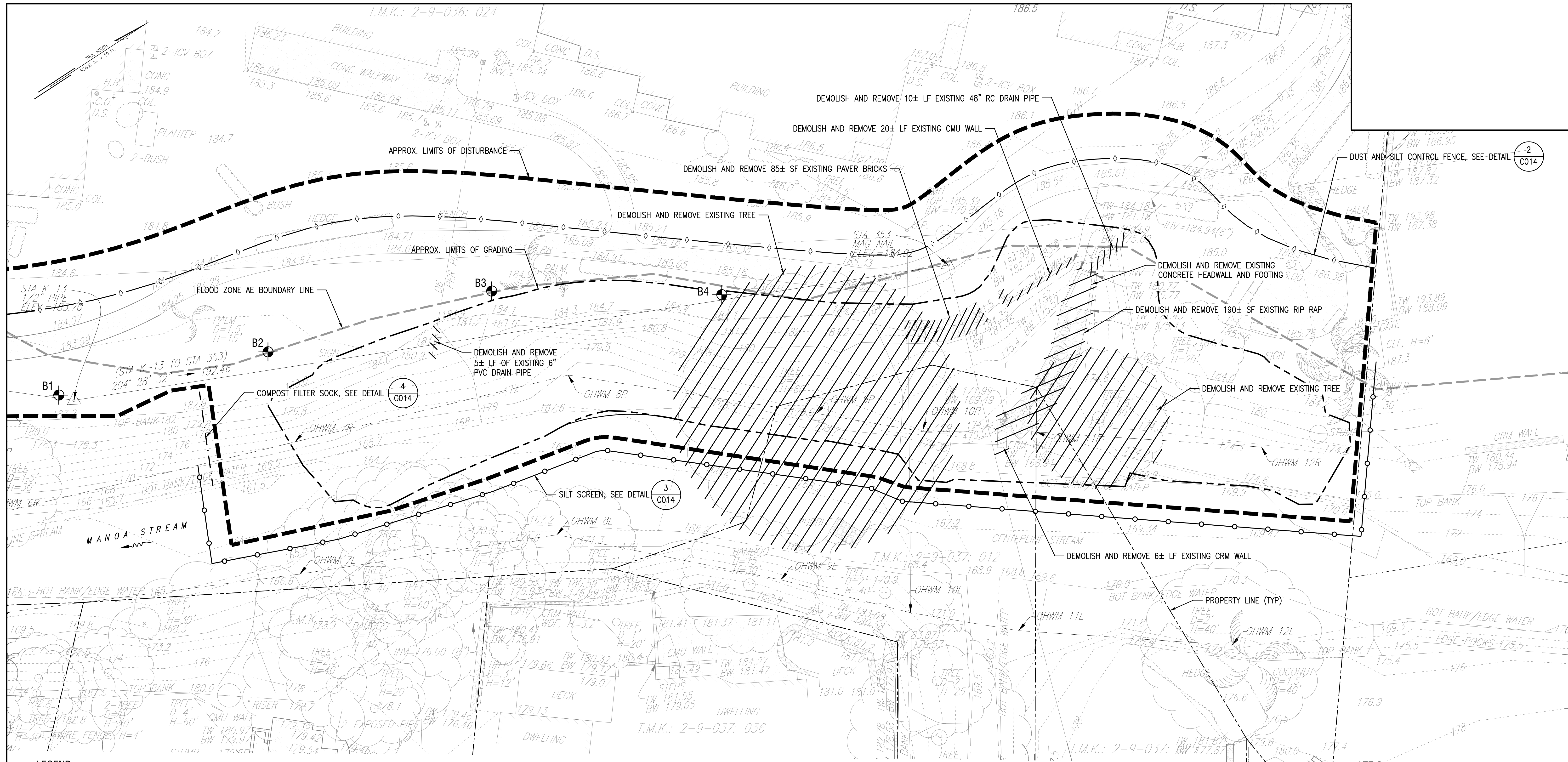


**JON T. MURAKA**  
 LICENSED PROFESSIONAL ENGINEER  
 No. 8843-C  
 HAWAII, USA

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*[Signature]*  
 ERISKAN & ASSOCIATES, INC.  
 License Expiration Date: April 30, 2026

REVISION	DATE	SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION <b>MANOA STREAM AT KAHALOA DRIVE          EROSION CONTROL IMPROVEMENTS</b> 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25 EROSION AND SEDIMENT CONTROL PLAN			
DESIGN: JC	APPROVED:	DRAWING NO. <b>C006</b>	
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>6</b>	
CHECKED: JTM	DATE	OF 16 SHEETS	
DATE: NOVEMBER 2025			
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
			NUMBER



**LEGEND:**

- PROPERTY LINE
- APPROX. LIMITS OF DISTURBANCE
- SILT SCREEN, SEE DETAIL (3) C014
- COMPOST FILTER SOCK, SEE DETAIL (4) C014
- APPROX. LIMITS OF GRADING
- FLOOD ZONE AE BOUNDARY LINE
- OHWM LINE
- ◇----- DUST AND SILT CONTROL FENCE, SEE DETAIL (2) C014
- ////// DEMOLISH AND REMOVE
- FLOW DIRECTION
- 172--- EXISTING CONTOURS
- 170---

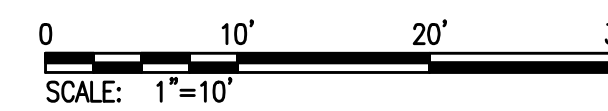
**NOTES:**

1. HAWAIIAN HOARY BAT BIRTHING AND PUP REARING SEASON IS JUNE 1 THROUGH SEPTEMBER 15. DO NOT DISTURB, REMOVE, OR TRIM WOODY PLANTS GREATER THAN 15 FEET TALL DURING HAWAIIAN HOARY BAT BIRTHING AND PUP REARING SEASON.
2. DURING WHITE NESTING TURN BREEDING SEASON, A SURVEY FOR WHITE NESTING TURNS MUST BE CONDUCTED PRIOR TO REMOVING TREES. IF A WHITE NESTING TURN EGG OR CHICK IS FOUND, THE NESTING TREE OR BRANCH MUST NOT BE DISTURBED UNTIL THE CHICK HAS FLEDGED. WHITE NESTING TURN BREEDING SEASON IS FROM THE BEGINNING OF JANUARY TO THE END OF JUNE.

**EXISTING SITE AND DEMOLITION PLAN**

SCALE: 1"=10'

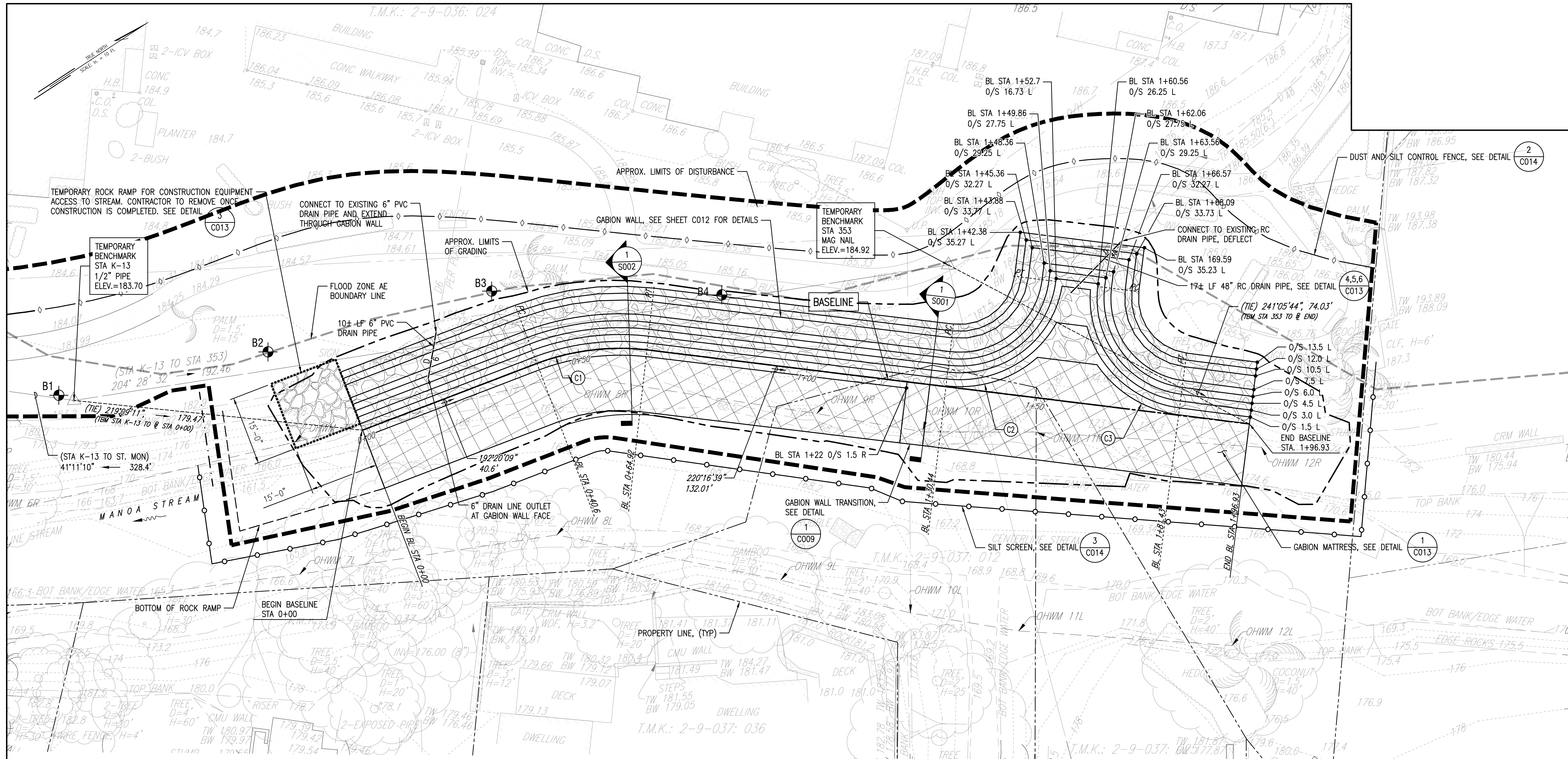
**GRAPHIC SCALE**



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 JON T. MURAKOKA  
 LICENSED PROFESSIONAL ENGINEER  
 No. 8843-C  
 HAWAII, USA  
 License Expiration Date: April 30, 2026

REVISION	DATE	SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION			
<b>MANOA STREAM AT KAHALOA DRIVE          EROSION CONTROL IMPROVEMENTS</b> 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25			
EXISTING SITE AND DEMOLITION PLAN			
DESIGN: JC	APPROVED:	DRAWING NO. <b>C007</b>	
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>7</b>	
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DATE: NOVEMBER 2025			
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
			NUMBER

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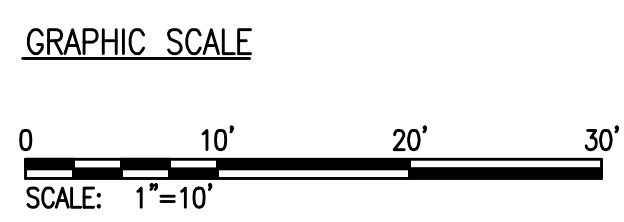
- PROPERTY LINE
- APPROX. LIMITS OF DISTURBANCE
- SILT SCREEN, SEE DETAIL 3  
C014
- COMPOST FILTER SOCK, SEE DETAIL 4  
C014
- APPROX. LIMITS OF GRADING
- FLOOD ZONE AE BOUNDARY LINE
- OHWM LINE
- ◇ DUST AND SILT CONTROL FENCE, SEE DETAIL 2  
C014
- D NEW DRAIN LINE
- ▨ GABION WALL, SEE SHEET C012 FOR DETAILS
- ▩ GABION MATTRESS, SEE DETAIL 1  
C013
- FLOW DIRECTION
- EXISTING CONTOURS

**CURVE TABLE**

CURVE	DELTA	LENGTH	RADIUS	CHORD	CHORD AZ	PC BASELINE/OFFSET	PT BASELINE/OFFSET
(C1)	27°03'00"	24.31'	59'	24.09'	206°13'24"	BL STA 0+40.6	BL STA 0+64.92
(C2)	48°34'02"	21.48'	25.5'	20.84'	196°00'28"	BL STA 1+30.44	STA 1+49.44 O/S 8.74 L
(C3)	48°34'02"	21.48'	25.5'	20.84'	244°41'24"	STA 1+62.46 O/S 8.74 L	BL STA 1+81.43

**NOTE:**  
 BASELINE OFFSETS AT STA 1+96.93 ARE TYPICAL FOR BASELINE STA 0+00, 0+40.6, 0+64.92, 01+30.44 AND 1+81.43.

**SITE PLAN**  
 SCALE: 1"=10'



LICENSED PROFESSIONAL ENGINEER  
 No. 8843-C  
 HAWAII, USA

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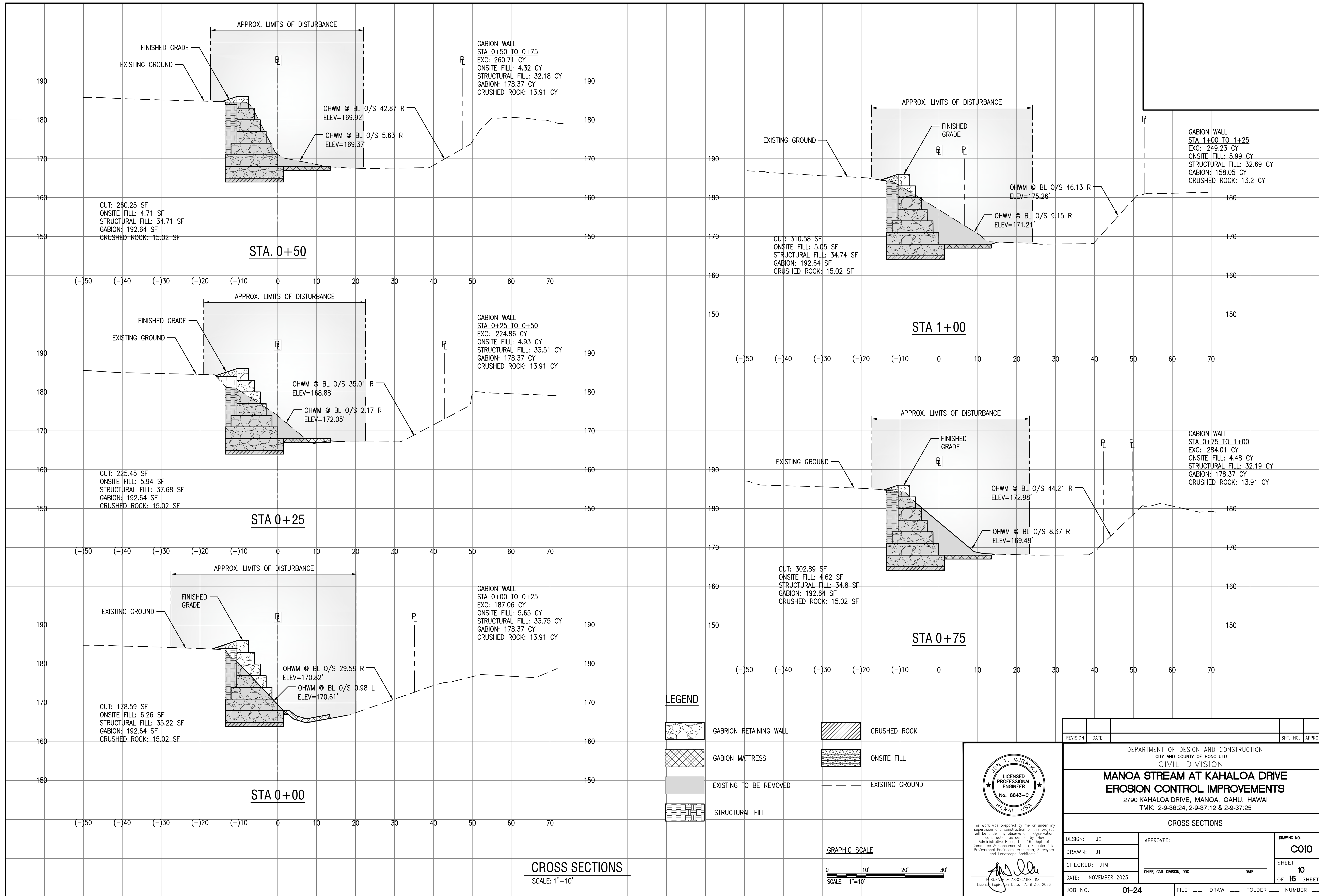
MURAKAWA & ASSOCIATES, INC.  
 License Expiration Date: April 30, 2026

DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION		SHEET NO. APPROVED
<b>MANOA STREAM AT KAHALOA DRIVE          EROSION CONTROL IMPROVEMENTS</b> 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36-24, 2-9-37-12 & 2-9-37-25		
<b>SITE PLAN</b>		
DESIGN: JC DRAWN: JT CHECKED: JTM DATE: NOVEMBER 2025	APPROVED: _____ CHIEF, CIVIL DIVISION, DDC DATE: _____	DRAWING NO. <b>C008</b> SHEET <b>8</b> OF 16 SHEETS
JOB NO. <b>01-24</b>		FILE ___ DRAW ___ FOLDER ___ NUMBER ___

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**JON T. MURAKA**  
 LICENSED PROFESSIONAL ENGINEER  
 No. 8843-C  
 HAWAII, USA

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*[Signature]*  
 MURAKA & ASSOCIATES, INC.  
 License Expiration Date: April 30, 2026

REVISION	DATE	SHT. NO.	APPROVED

DEPARTMENT OF DESIGN AND CONSTRUCTION  
 CITY AND COUNTY OF HONOLULU  
 CIVIL DIVISION

**MANOA STREAM AT KAHALOA DRIVE  
 EROSION CONTROL IMPROVEMENTS**  
 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII  
 TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25

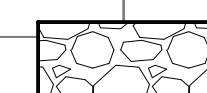
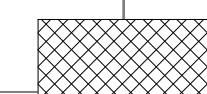

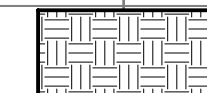
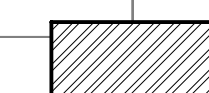
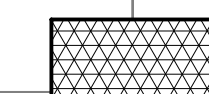
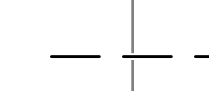
CROSS SECTIONS

DESIGN: JC	APPROVED:	DRAWING NO. <b>C010</b>
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>10</b>
CHECKED: JTM	DATE	OF 16 SHEETS
DATE: NOVEMBER 2025		

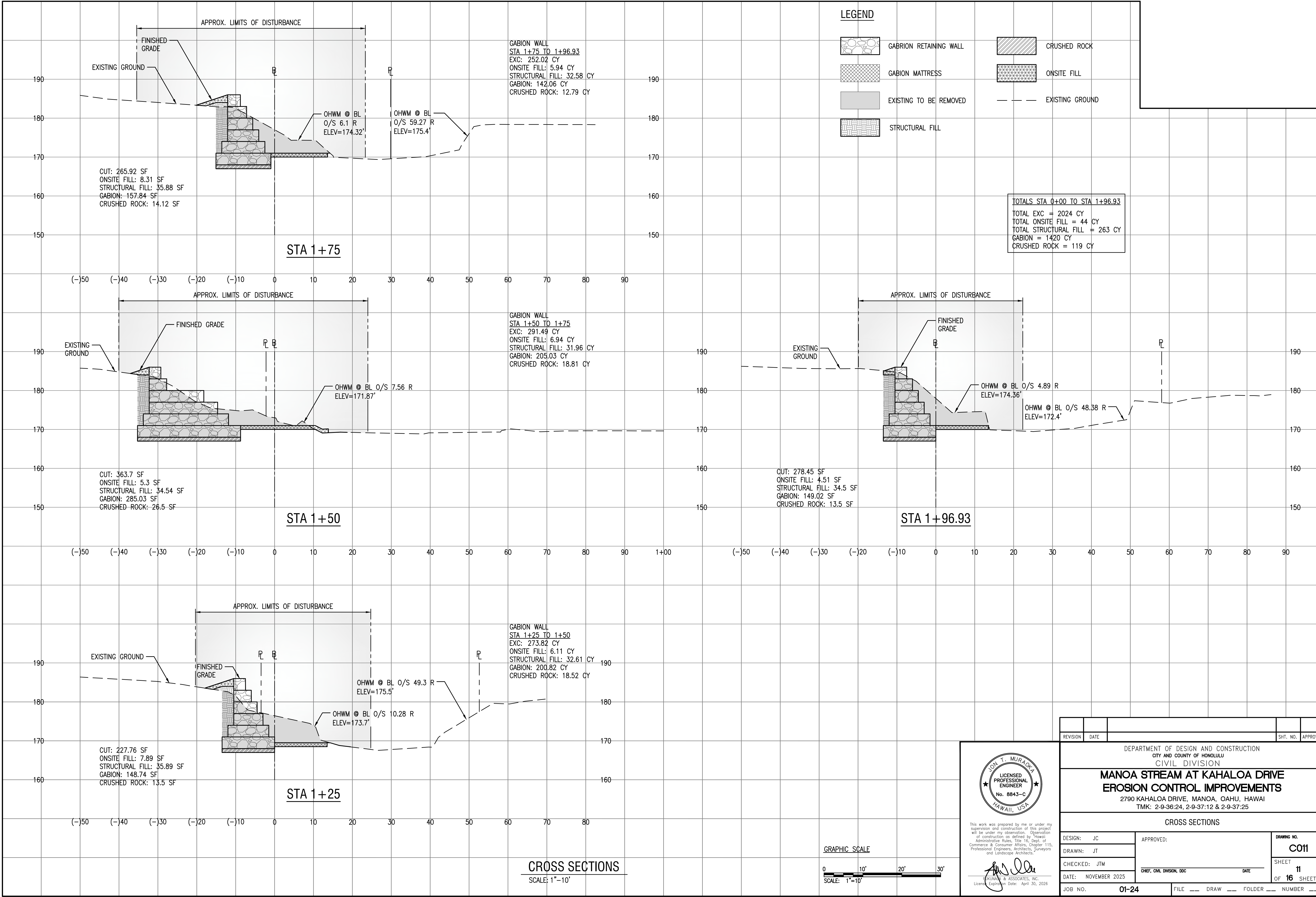
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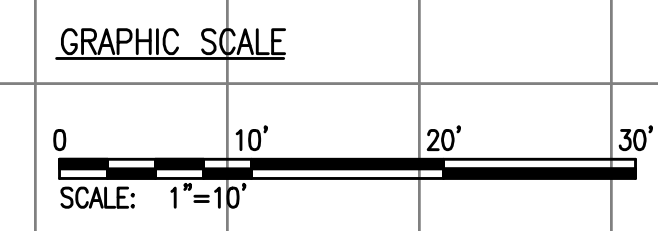
**LEGEND**

-  GABION RETAINING WALL
-  GABION MATTRESS
-  EXISTING TO BE REMOVED
-  STRUCTURAL FILL
-  CRUSHED ROCK
-  ONSITE FILL
-  EXISTING GROUND

**TOTALS STA 0+00 TO STA 1+96.93**  
 TOTAL EXC = 2024 CY  
 TOTAL ONSITE FILL = 44 CY  
 TOTAL STRUCTURAL FILL = 263 CY  
 GABION = 1420 CY  
 CRUSHED ROCK = 119 CY



**CROSS SECTIONS**  
 SCALE: 1"=10'



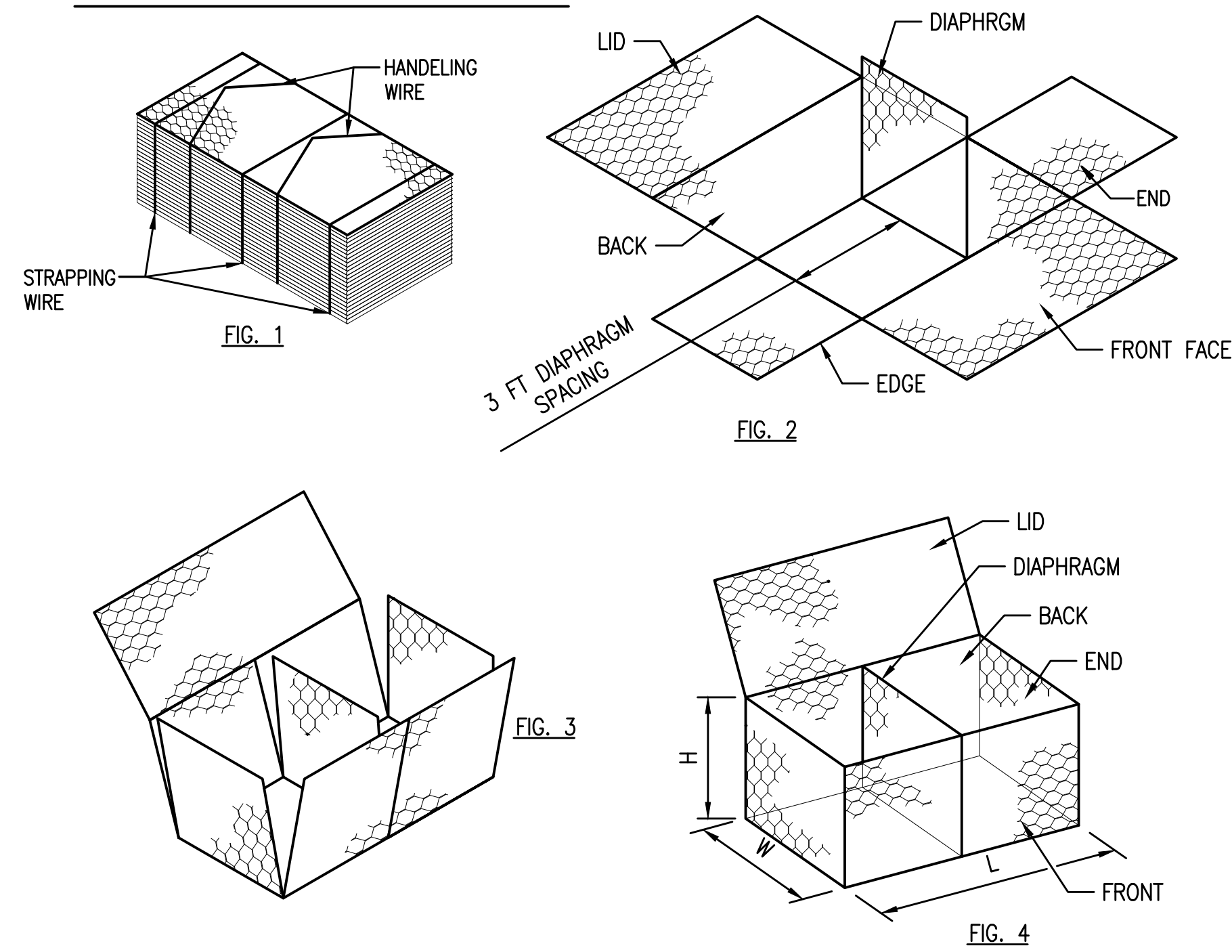
**JON T. MURAKA**  
 LICENSED PROFESSIONAL ENGINEER  
 No. 8843-C  
 HAWAII, USA

This work was prepared by me or under my supervision and construction of this project will be under my observation. Observation of construction as defined by Hawaii Administrative Rules, Title 16, Dept. of Commerce & Consumer Affairs, Chapter 115, Professional Engineers, Architects, Surveyors and Landscape Architects.

*[Signature]*  
 HIRAIWA & ASSOCIATES, INC.  
 License Expiration Date: April 30, 2026

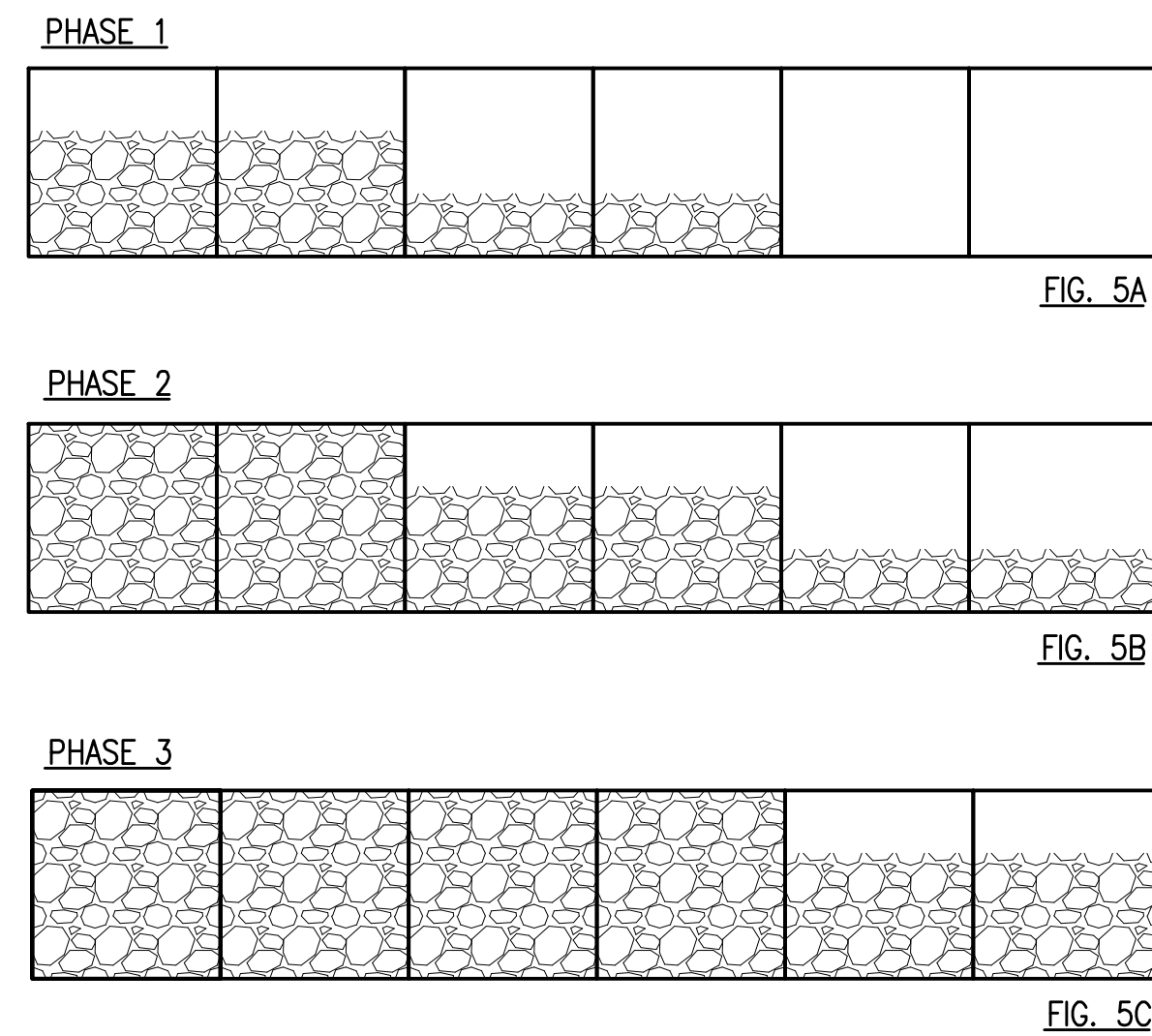
REVISION	DATE		SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION				
<b>MANOA STREAM AT KAHALOA DRIVE</b> <b>EROSION CONTROL IMPROVEMENTS</b> 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25				
CROSS SECTIONS				
DESIGN: JC	APPROVED:	DRAWING NO.		<b>C011</b>  SHEET <b>11</b> OF 16 SHEETS
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	DATE		
CHECKED: JTM				
DATE: NOVEMBER 2025				
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER	NUMBER

**UNPACKING & ASSEMBLY PROCESS**

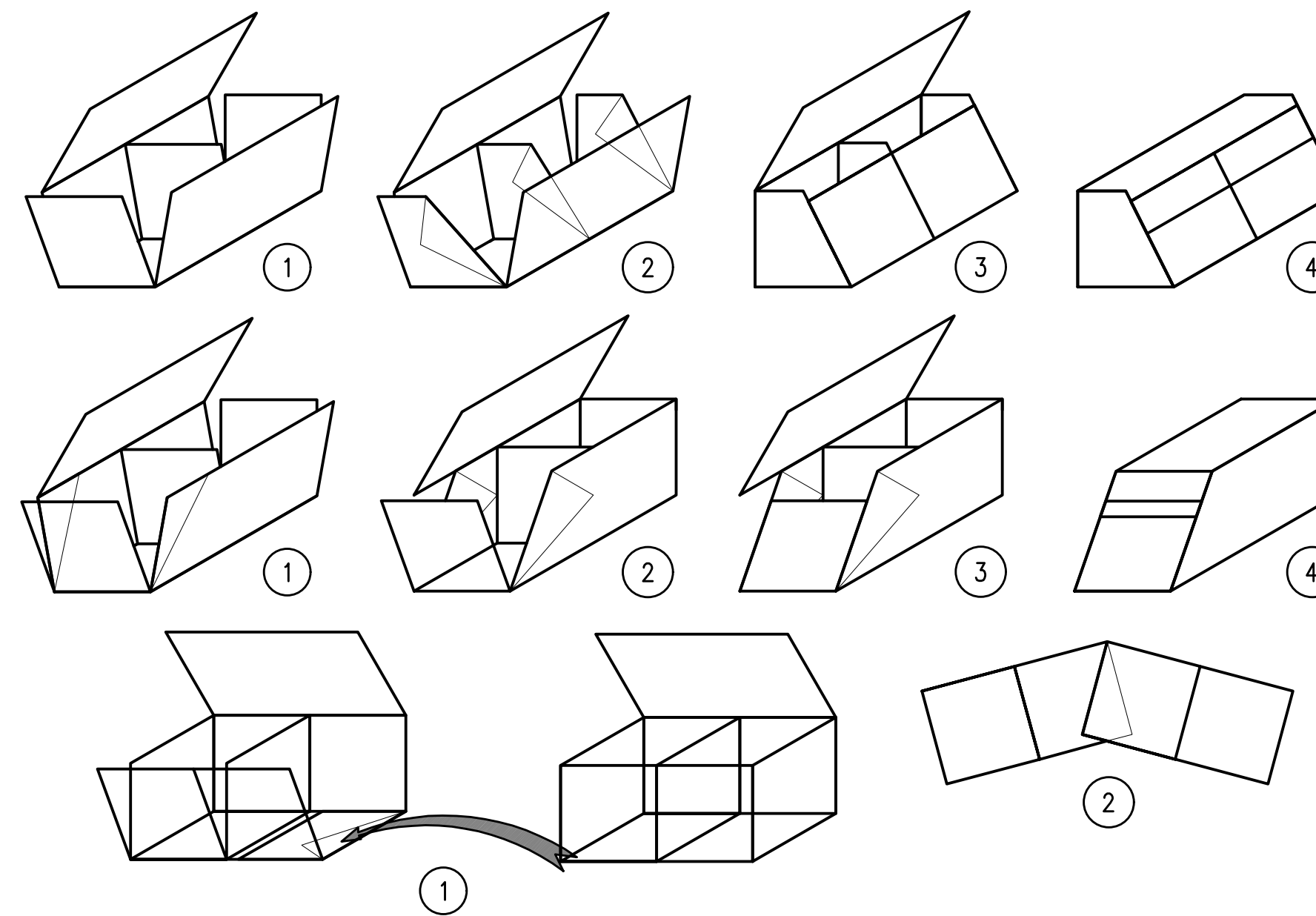


- GABIONS ARE DELIVERED TO THE JOB SITE IN BUNDLES. THEY ARE COMPRESSED AND STRAPPED IN THE FACTORY FOR EASIER SHIPPING AND HANDLING (FIG. 1).
- OPEN AND UNFOLD THE GABIONS ONE BY ONE ON A FLAT, HARD SURFACE. ELIMINATE ALL FOLDS DUE TO THE PACKAGING (FIG. 2).
- PULL UP THE SIDES AND THE DIAPHRAGMS TO FORM AN OPEN BOX. BE SURE THE TOP OF THE FACE AND THE SIDE ARE AT THE SAME LEVEL (FIG.3).
- FOLD BY HAND THE END OF THE REINFORCING WIRE OF THE MAIN UNIT AND THE DIAPHRAGMS ALLOWING THE GABION TO STAND BY ITSELF (FIG.4).

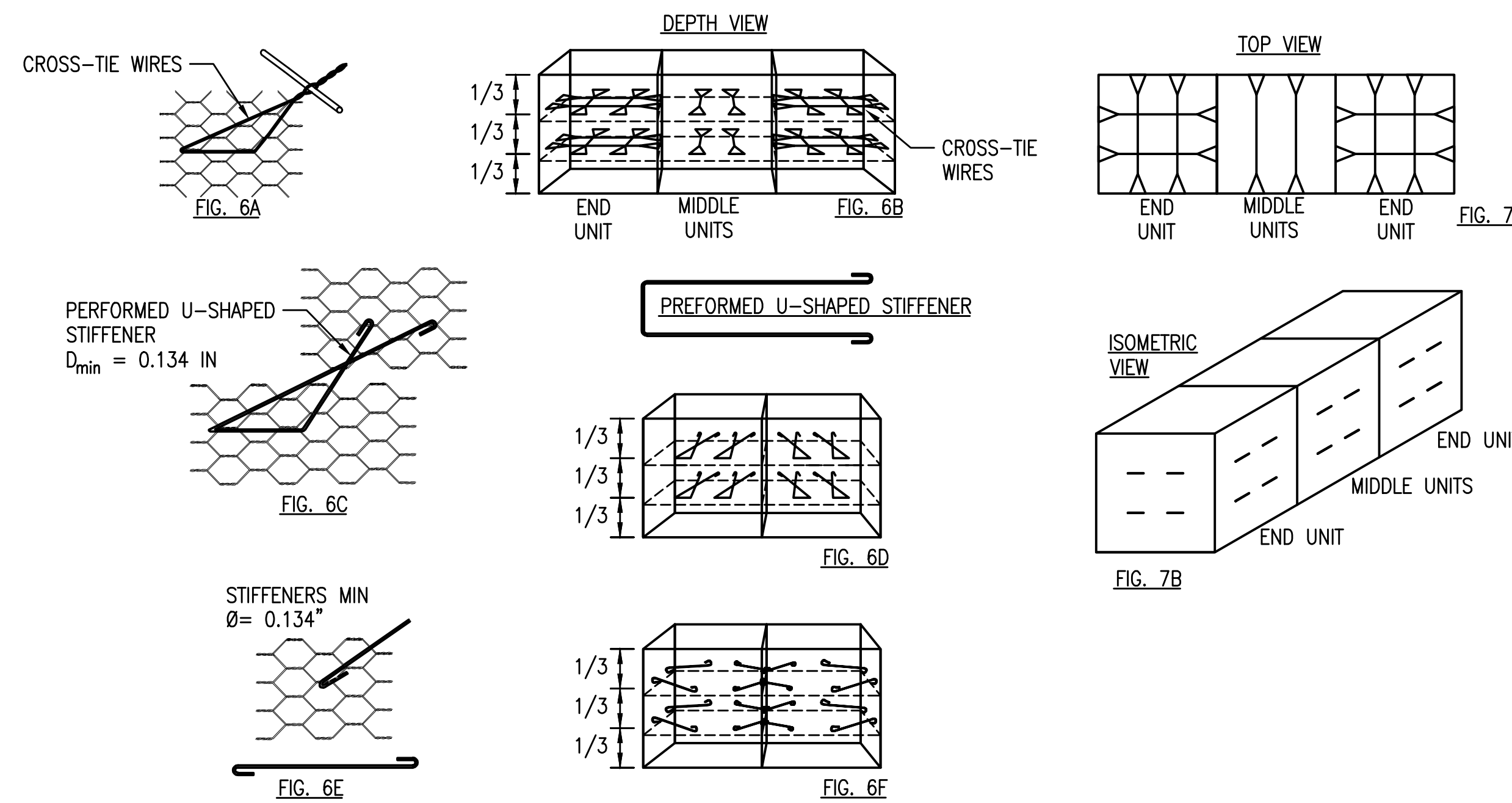
**FILLING PROCESS**



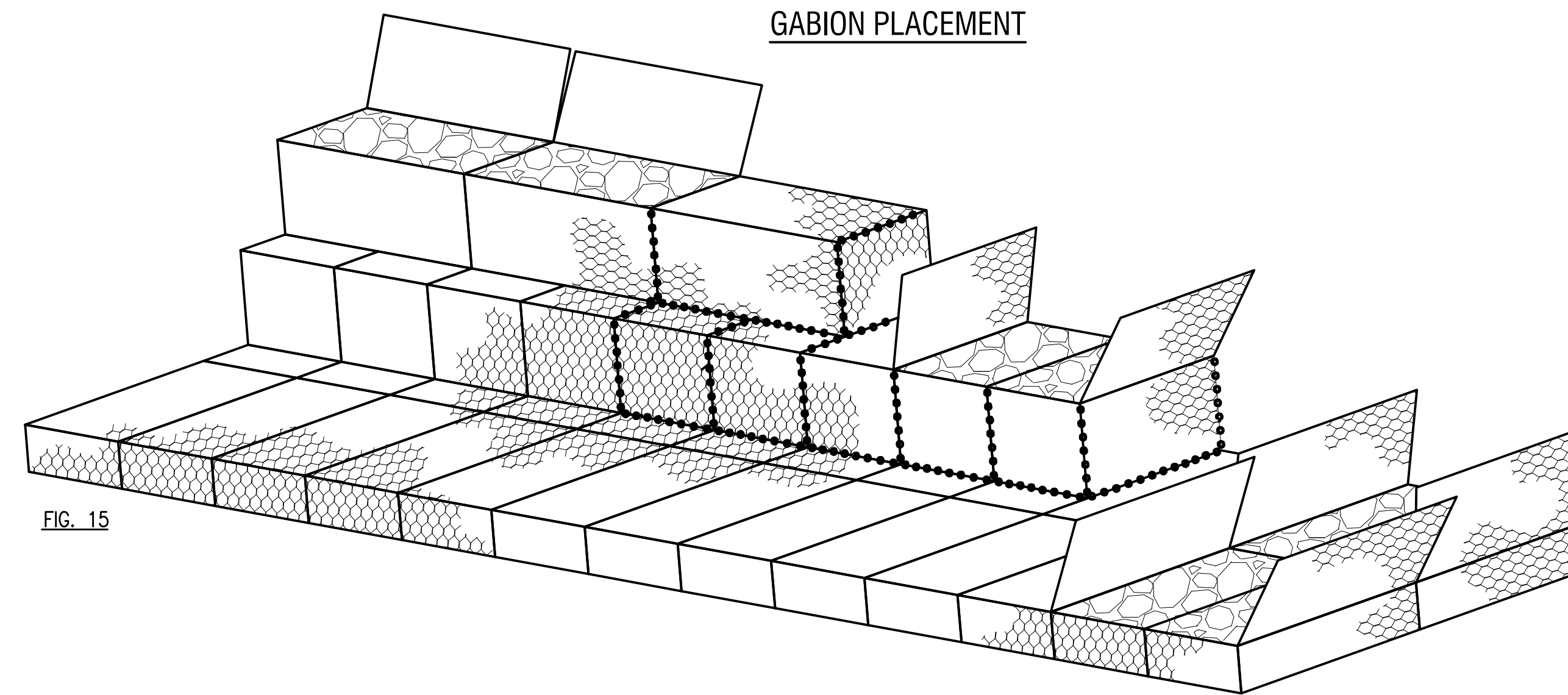
**FOLDING PROCESS**



**REINFORCING DETAIL**

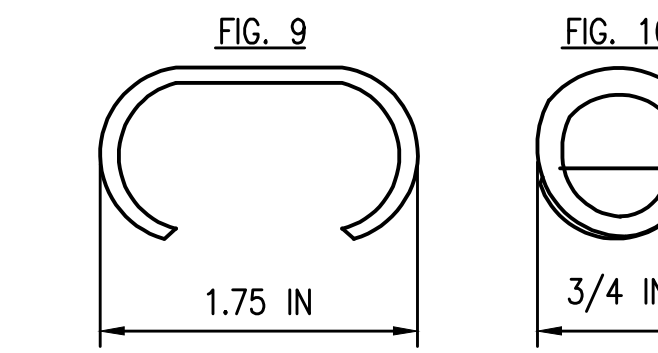


**GABION PLACEMENT**

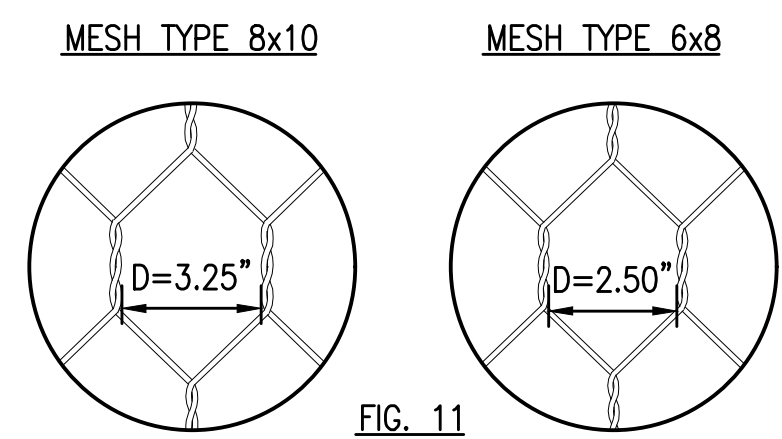
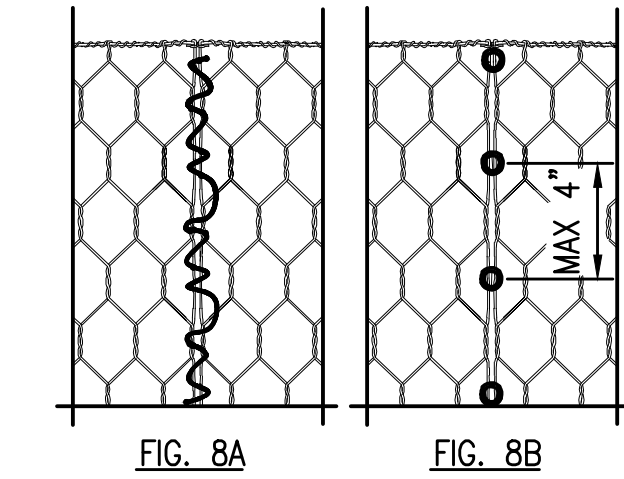


**CONNECTION TECHNIQUES**

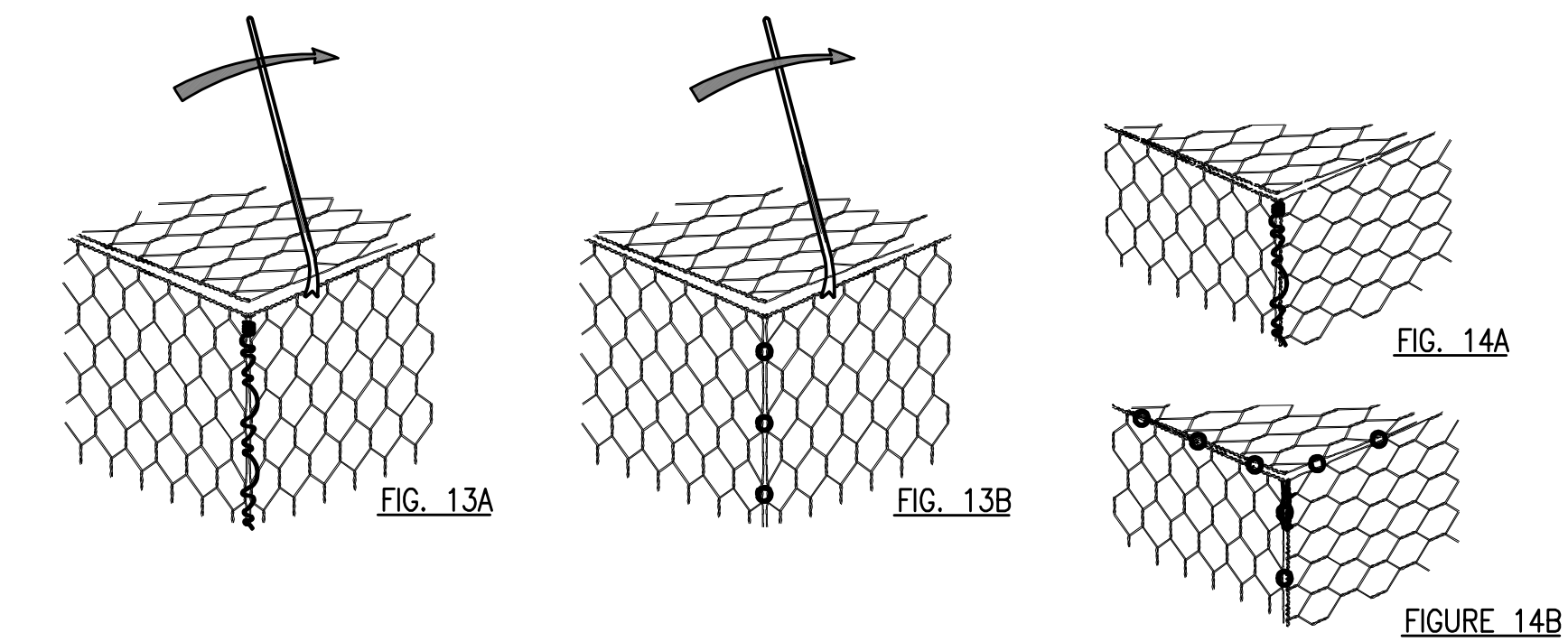
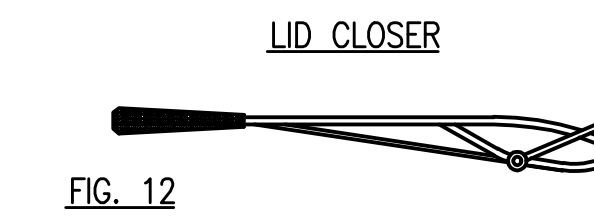
EDGES ARE JOINED TOGETHER, USING THE APPROPRIATE LACING TECHNIQUES.  
**MANUAL:** CONTINUOUS WIRE LOOPED TIGHTLY AROUND EVERY OTHER MESH OPENING, ALTERNATING SINGLE AND DOUBLE LOOPS (FIG. 8A).  
**MECHANICAL:** USING A PNEUMATIC OR HAND POWER TOOL, EMPLOYING STAINLESS STEEL "C" SHAPED FASTENERS. FOR CONTINUITY AND STRENGTH, THE RECOMMENDED SPACING IS MAX 4 IN. (FIG 8B).



- RING FASTENER  $\emptyset = 1.75$  IN OPEN AND  $3/4$  IN CLOSED.
- RING FASTENER HAS  $170 \text{ KG/MM}^2$  BREAKING LOAD.
- RING FASTENER WIRE  $\emptyset = 0.120$  IN.



THE TOLERANCE OF THE MESH OPENING "D", (THE DISTANCE BETWEEN THE AXIS'S OF TWO PARALLEL TWISTS) IS ACCORDING TO ASTM A975.

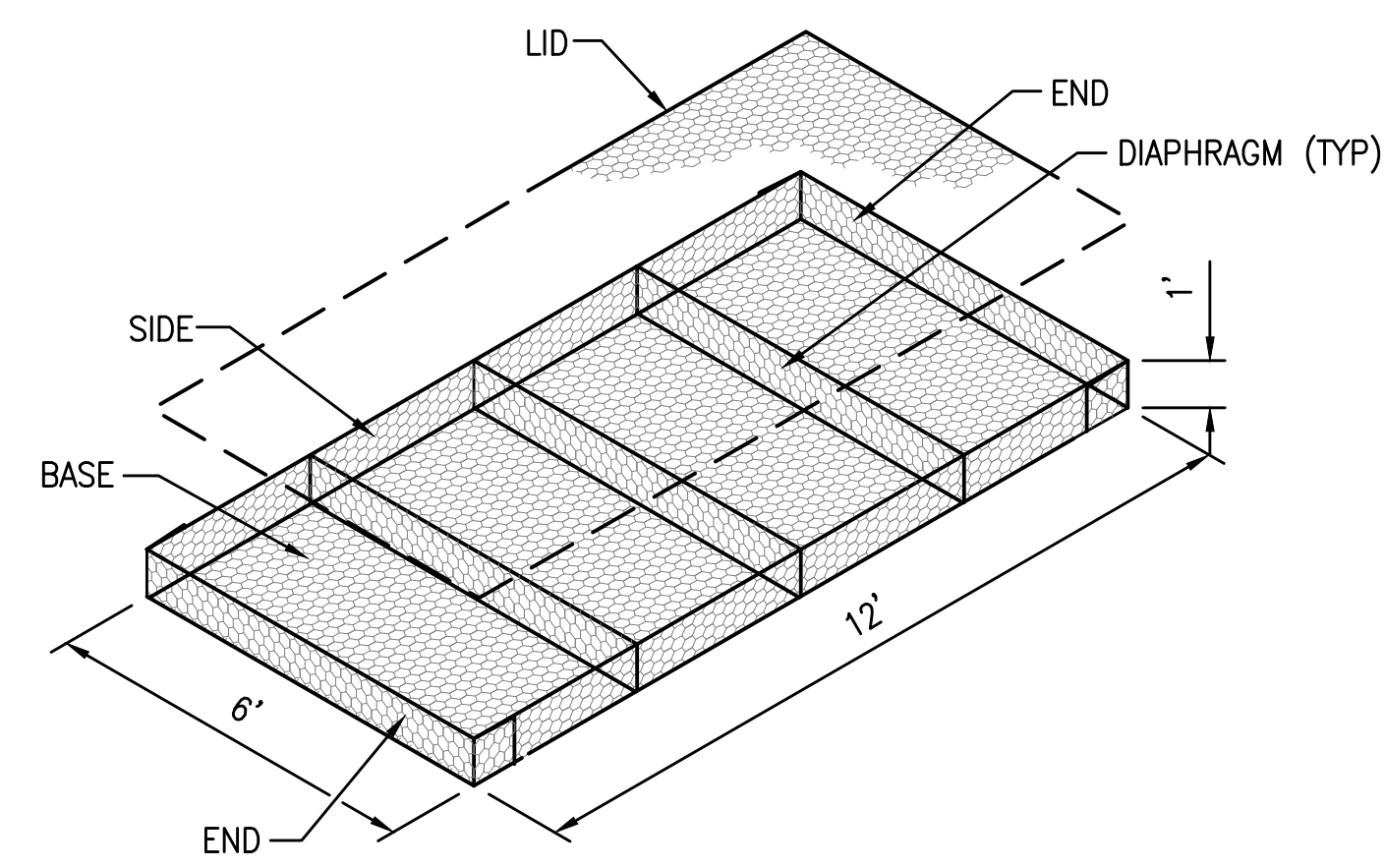


1 GABION CONSTRUCTION DETAILS  
 C012 NOT TO SCALE

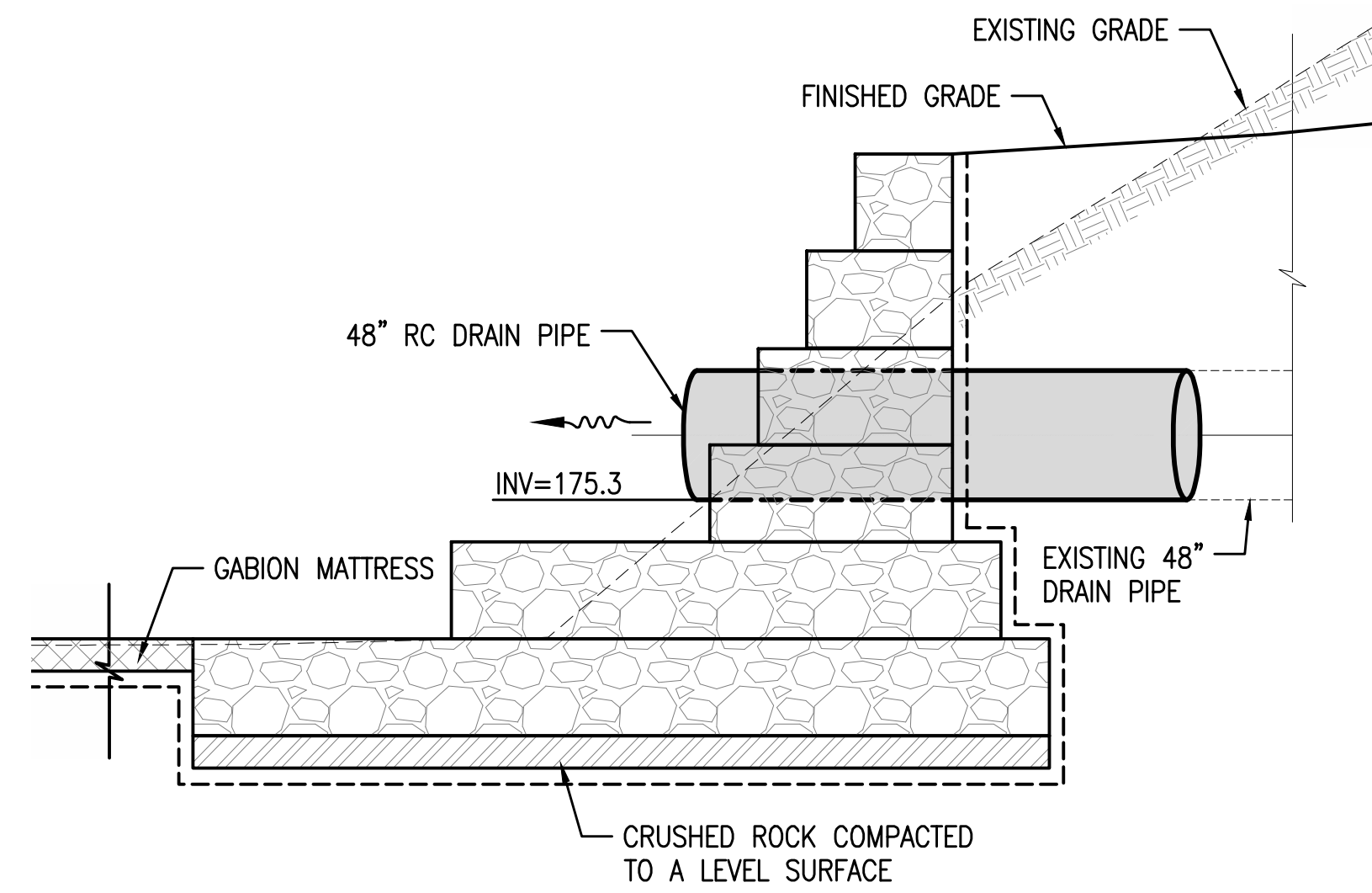
REVISION	DATE	SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION <b>MANOA STREAM AT KAHALOA DRIVE                      EROSION CONTROL IMPROVEMENTS</b> 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25			
GABION CONSTRUCTION DETAILS			
DESIGN: JC	APPROVED:	DRAWING NO. <b>C012</b>	
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>12</b>	
CHECKED: JTM	DATE	OF 16 SHEETS	
DATE: NOVEMBER 2025			
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
			NUMBER

This work was prepared by me or under my supervision and construction of this project will be under my observation. Observation of construction as defined by Hawaii Administrative Rules, Title 15, Dept. of Commerce & Consumer Affairs, Chapter 115, Professional Engineers, Architects, Surveyors and Landscape Architects.  
 J. Muraoka & Associates, Inc.  
 License Expiration Date: April 30, 2026

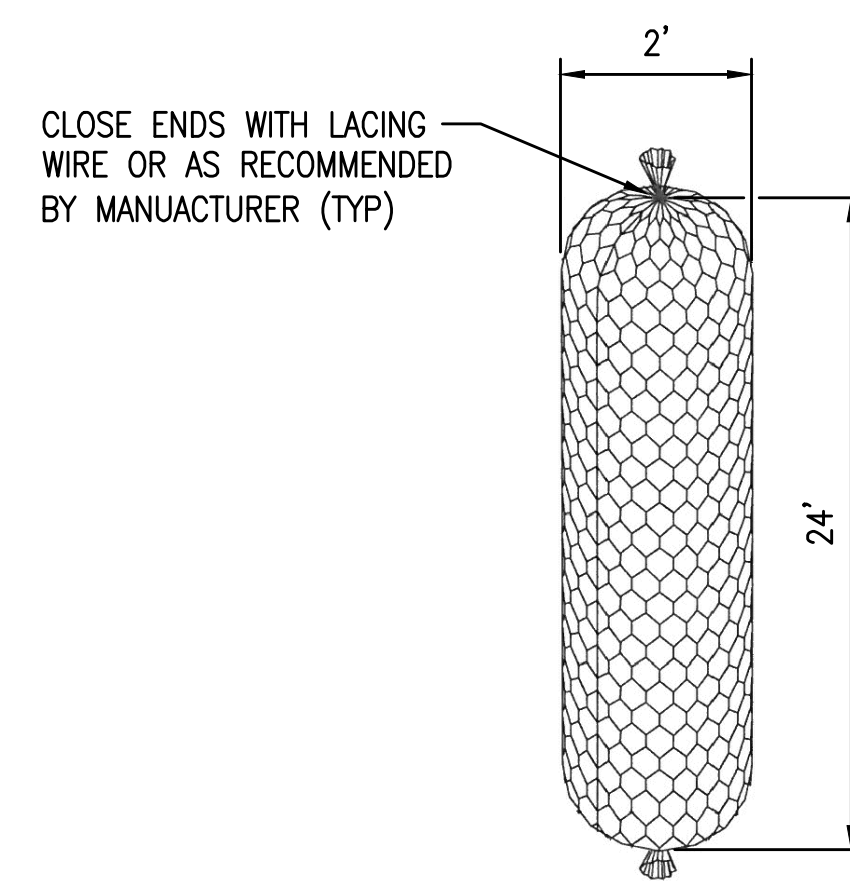
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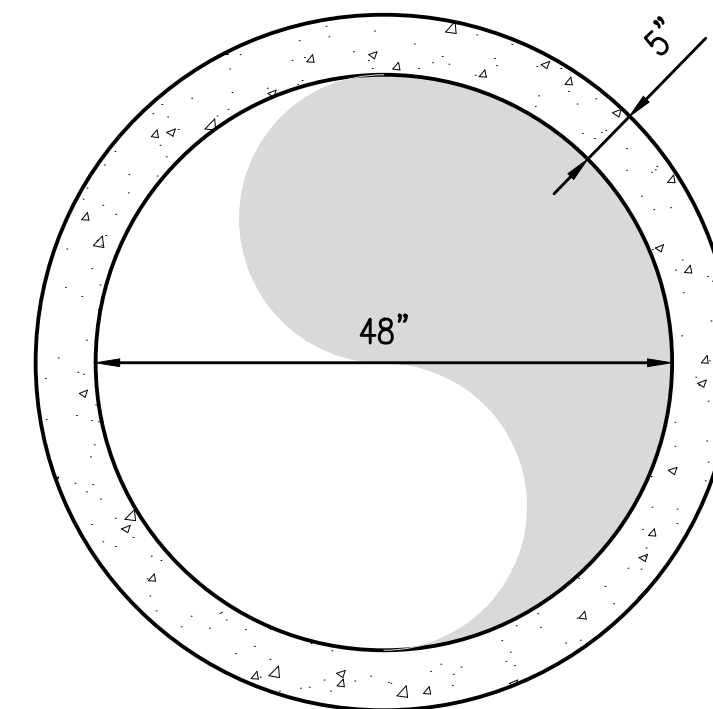
**1 TYPICAL GABION MATTRESS DETAIL**  
C013 NOT TO SCALE



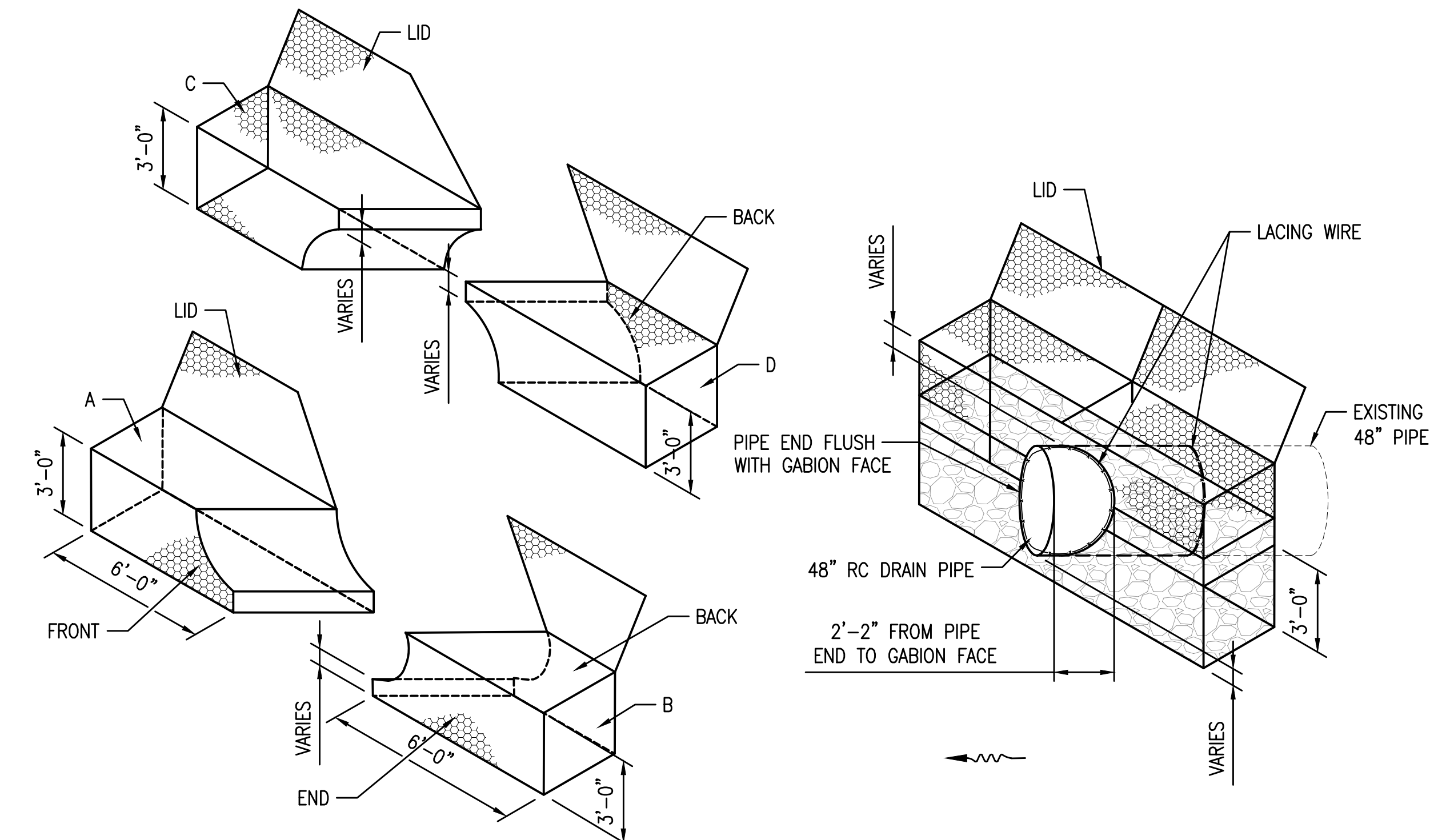
**4 GABION WALL SECTION WITH CONCRETE DRAIN PIPE**  
C013 NOT TO SCALE



**2 SACK GABION DETAIL**  
C013 NOT TO SCALE

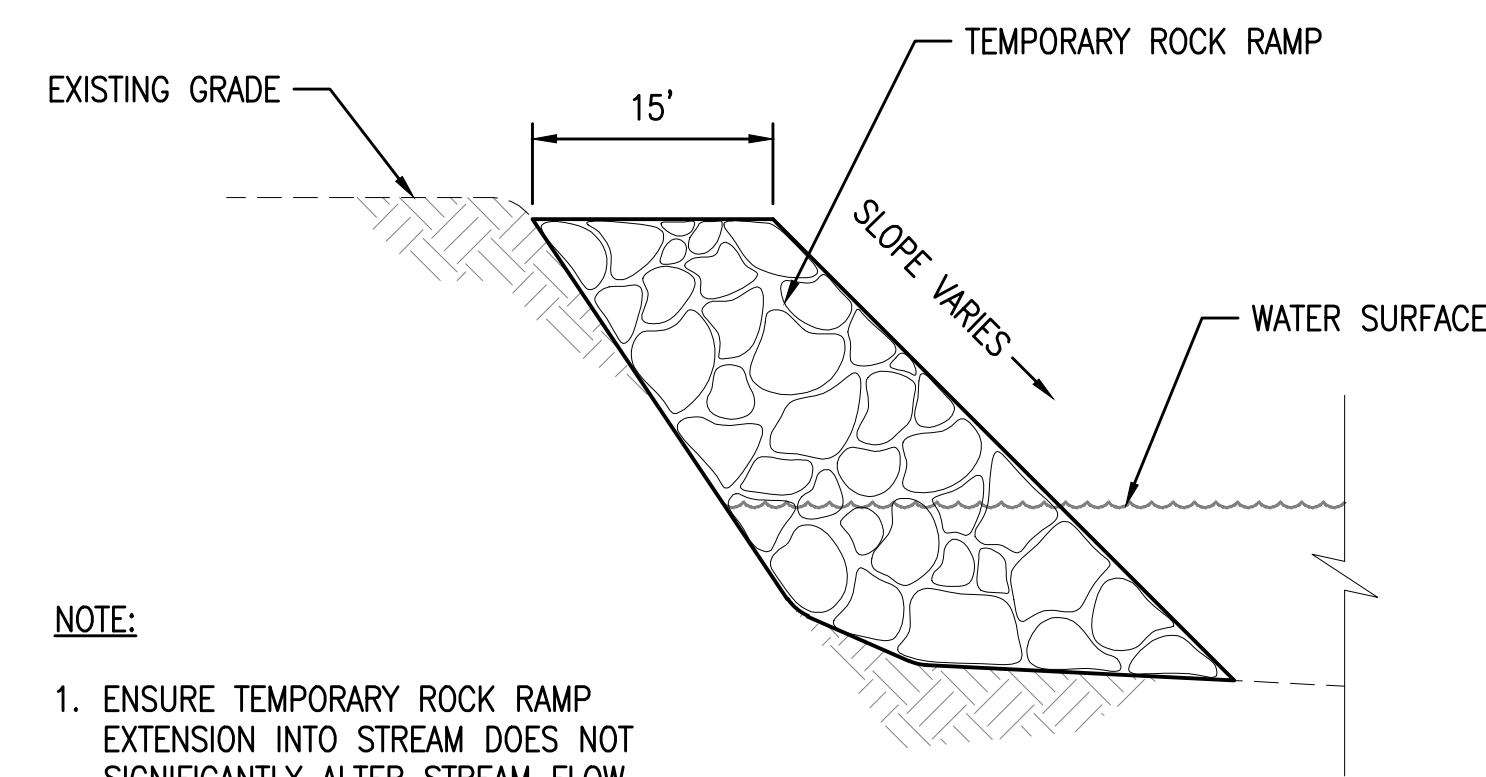


**5 48\"/>**



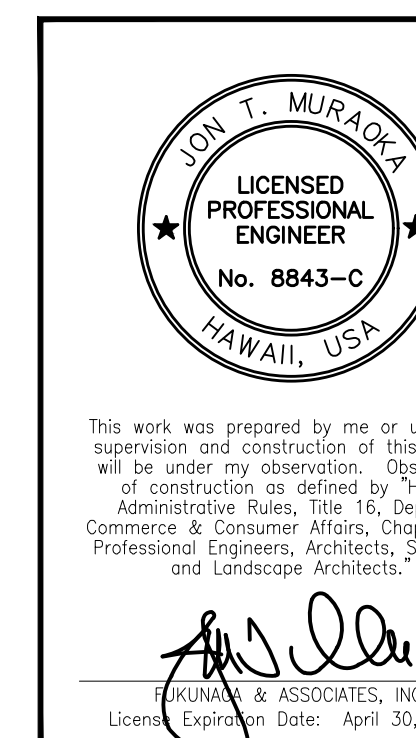
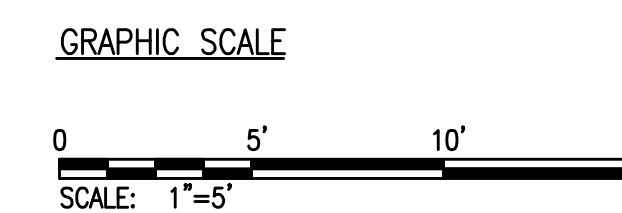
- NOTE:**
- PIPE PROTECTION MUST BE AS SPECIFIED BY PIPE MANUFACTURER IF NEEDED.
  - CUT THE FRONT AND BACK GABION PANELS FOR GABIONS "A" AND "B" AS SHOWN.
  - PLACE THE GABIONS "C" AND "D" ON TOP OF GABIONS "A" AND "B" AROUND THE PIPE PERFORM LACING OPERATION OR USE SPENAX RINGS TO TIE GABIONS "C" AND "D" TO GABIONS "A" AND "B". HAND PACK ROCK FILL ON TOP AND AROUND AREA.

**6 GABION WITH ANGLED PIPE EXTENSION PLACEMENT DETAIL**  
C013 NOT TO SCALE



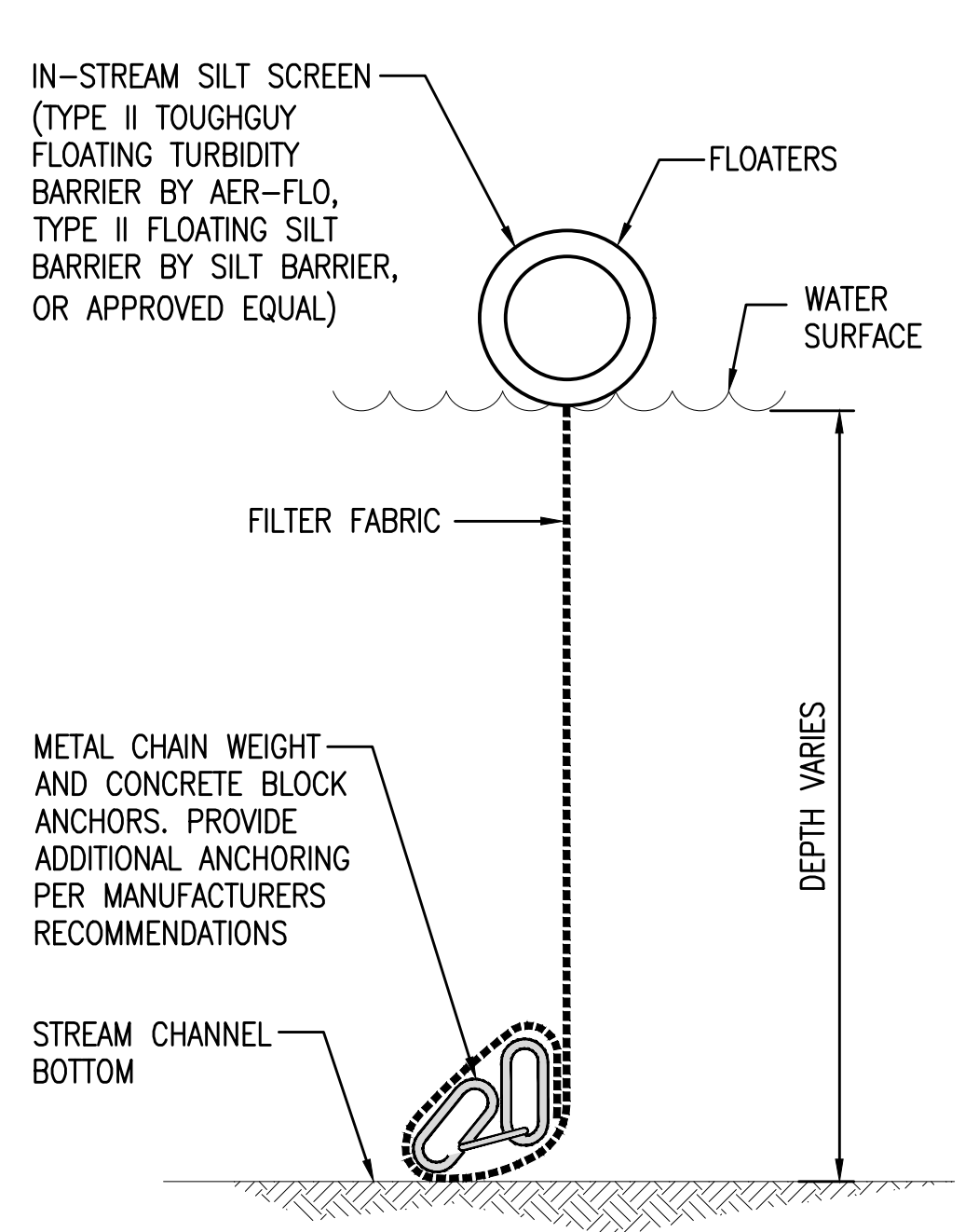
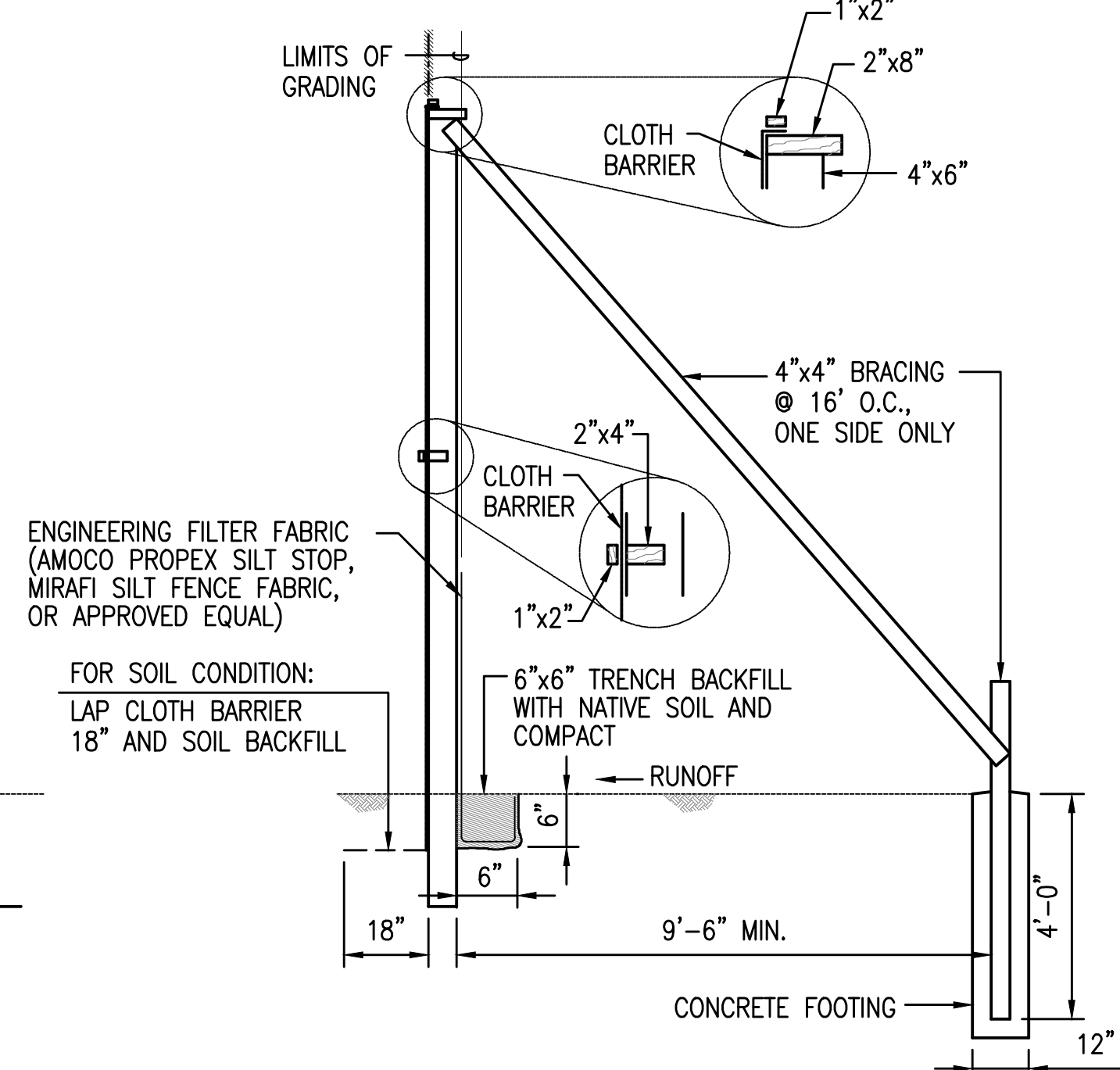
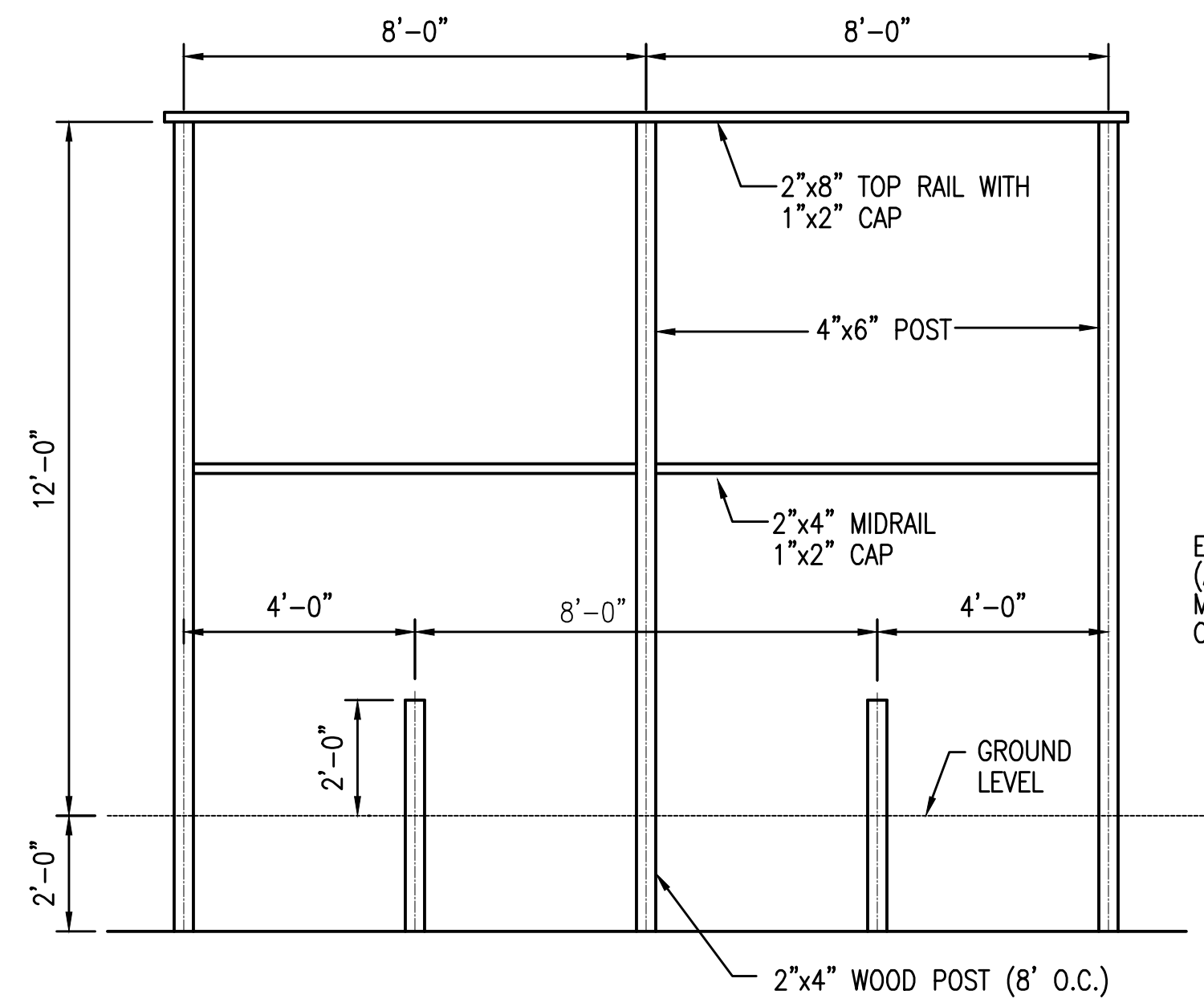
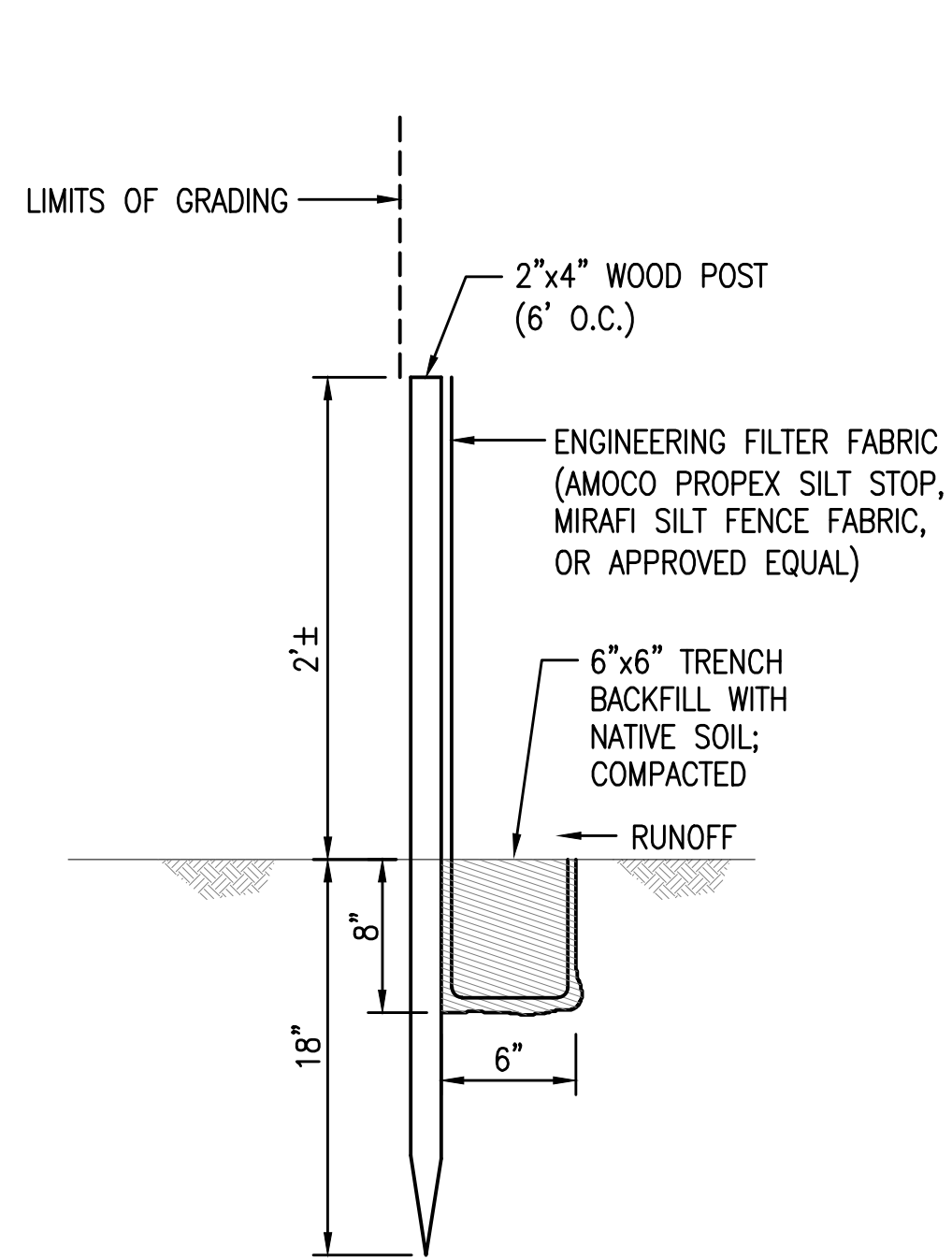
- NOTE:**
- ENSURE TEMPORARY ROCK RAMP EXTENSION INTO STREAM DOES NOT SIGNIFICANTLY ALTER STREAM FLOW.

**3 TEMPORARY ROCK RAMP SECTION A-A**  
C013 NOT TO SCALE

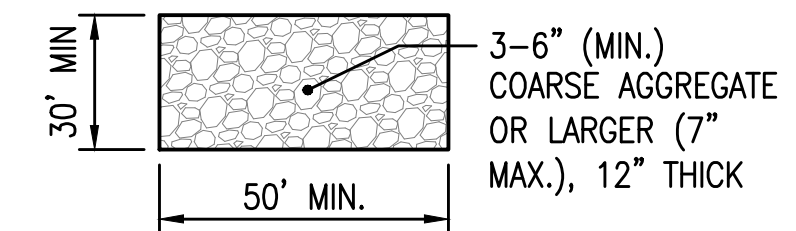


REVISION	DATE	SHT. NO.	APPROVED
DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU CIVIL DIVISION <b>MANOA STREAM AT KAHALOA DRIVE            EROSION CONTROL IMPROVEMENTS</b> 2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25			
DETAILS			
DESIGN: JC	APPROVED:	DRAWING NO. <b>C013</b>	
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>13</b>	
CHECKED: JTM	DATE	OF <b>16</b> SHEETS	
DATE: NOVEMBER 2025			
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
			NUMBER

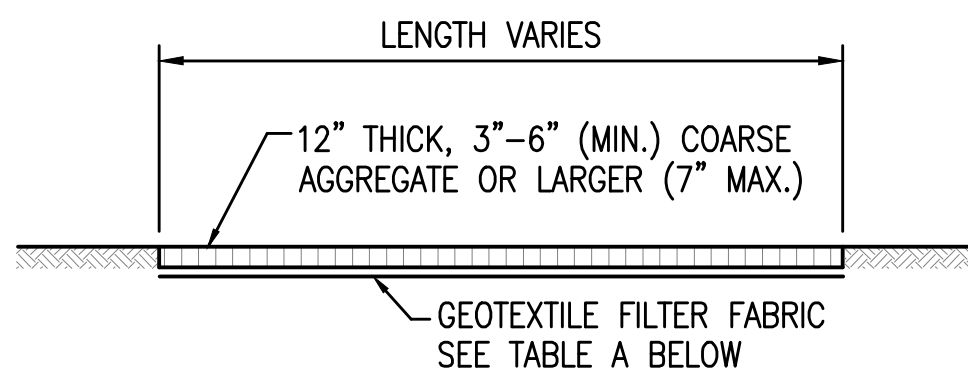
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**3 SILT SCREEN DETAIL**  
C014 NOT TO SCALE



**PLAN**



**SECTION**

TABLE A GEOTEXTILE REQUIREMENTS	
PHYSICAL PROPERTY	REQUIREMENTS
GRAB TENSILE STRENGTH	220 LB (ASTM D1682)
ELONGATION FAILURE	60% (ASTM D1682)
MULLEN BURST STRENGTH	430 LB (ASTM D3768)
PUNCTURE STRENGTH	125 LB (ASTM D751, MODIFIED)
EQUIVALENT OPENING	SIZE 40-80 (U.S. STD SIEVE, CW-02215)

**SILT FENCE NOTES:**

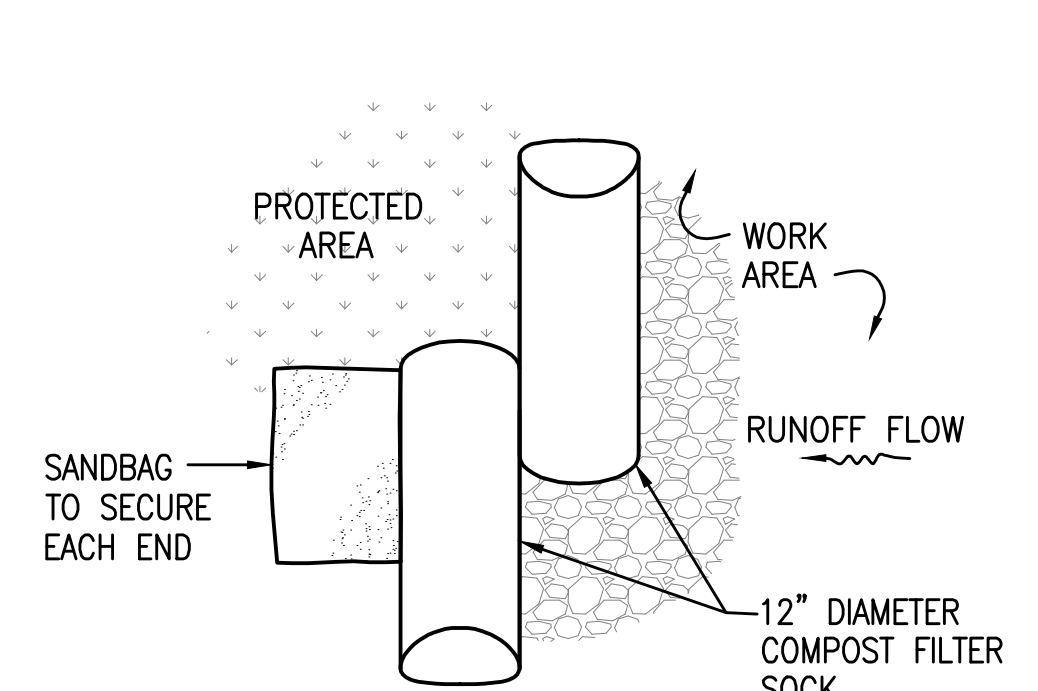
- CONTRACTOR SHALL OBSERVE AND COMPLY WITH THE STATE DEPARTMENT OF HEALTH REGULATIONS REGARDING STORM WATER DISCHARGE.
- CONTRACT SHALL INSTALL SILT FENCES OR OTHER APPROVE EQUAL TO PREVENT ANY SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE.
- NO SEDIMENT LADEN RUNOFF SHALL LEAVE THE SITE.
- CONTRACTOR SHALL INSTALL PERMANENT GROUND COVER IMMEDIATELY FOLLOWING THE COMPLETION OF TRENCH BACKFILL.

**NOTES**

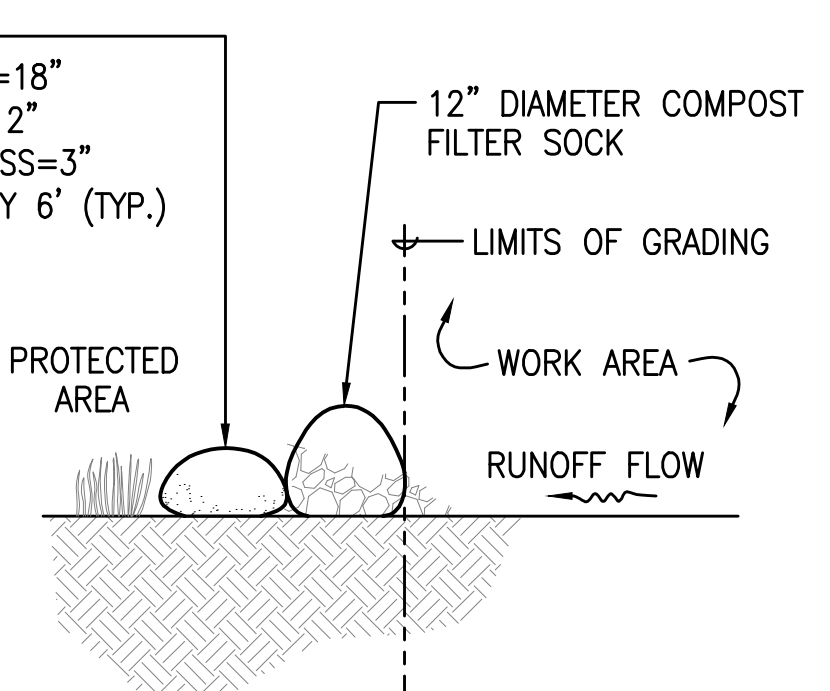
- CLOTH BARRIER NOT SHOWN IN FRONT VIEW.
- CLOTH BARRIER TO BE "GEOTEXTILE" OR "NURSERY SHADE".
- LUMBER SIZES ARE NOMINAL INCHES.
- AS SHOWN, CLOTH TO BE BURIED AT BASE TO INDICATED DIMENSION.
- 1"x2" CLOTH BARRIER CAPS TO BE NAILED AT 12" O.C.
- BURLAP IS NOT ACCEPTABLE AS THE CLOTH BARRIER.
- CLOTH TO HAVE NO HORIZONTAL SEAMS.
- VERTICAL SEAMS TO BE MADE OVER UPRIGHTS ONLY.
- ALL SEAMS TO BE CAPPED WITH MINIMUM 1"x2".
- ALL JOINTS TO BE SECURELY FASTENED BY MECHANICAL MEANS.
- CONSTRUCTION OF WOOD FRAMING SHALL BE COMPLETED BY OR UNDER THE SUPERVISION OF A JOURNEYMAN CARPENTER IN ACCORDANCE WITH STANDARD CONSTRUCTION PRACTICES. FILTER FABRIC SHALL BE NAILED, SCREWED OR ATTACHED WITH FASTENERS TO ALL 2"x4" AND 4"x6" WOOD POSTS PER MANUFACTURER'S RECOMMENDATIONS.

**1 SILT FENCE DETAIL**  
C014 NOT TO SCALE

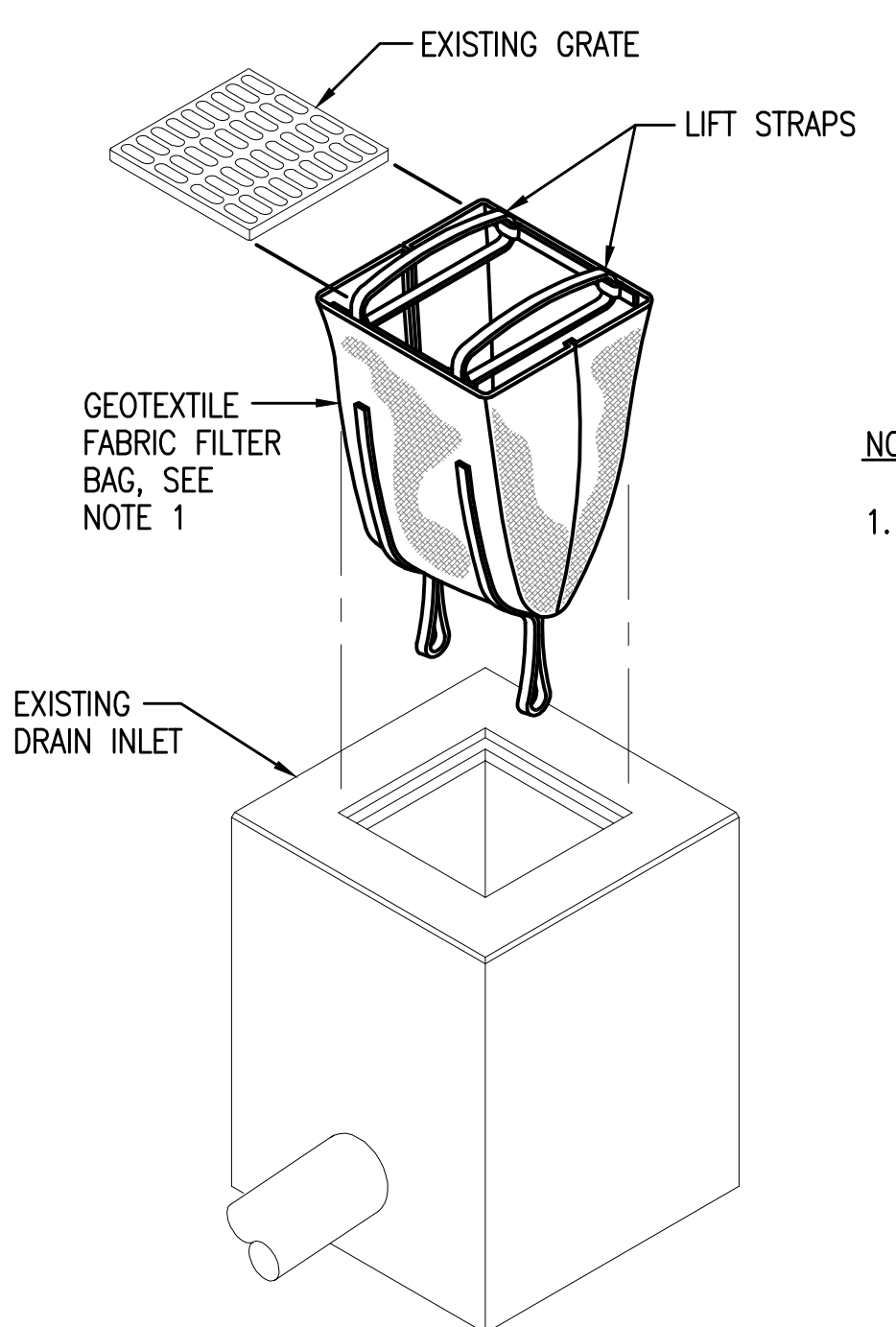
**2 DUST AND SILT CONTROL FENCE DETAIL**  
C014 NOT TO SCALE



**PLAN**

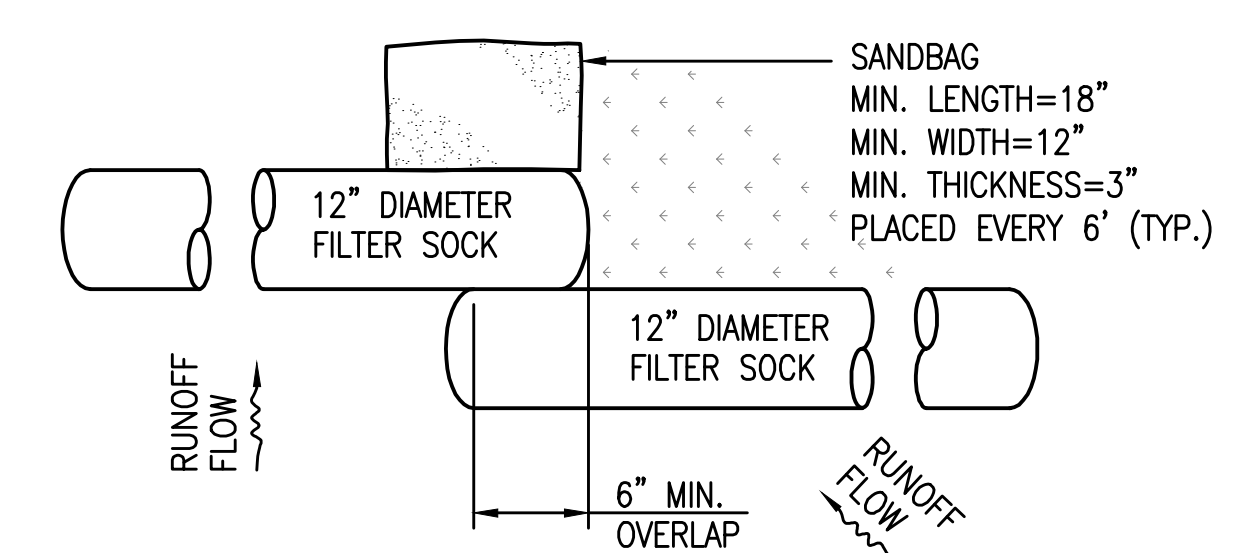


**SECTION**



**NOTES:**

- FILTER BAG MUST MEET THE FOLLOWING MINIMUM CRITERIA:
  - GRAB TENSILE STRENGTH IN CONFORMANCE WITH ASTM D 4632: 350 X 208 LBS.
  - PUNCTURE STRENGTH IN CONFORMANCE WITH ASTM D 4833: 130 LBS.
  - UV RESISTANCE IN CONFORMANCE WITH ASTM 4355: 70%
  - WATER FLOW RATE IN CONFORMANCE WITH ASTM 4491: 200 GPM/SQ. FT.
  - APPARENT OPENING SIZE IN CONFORMANCE WITH ASTM D 4751: 30 US SIEVE



**PLAN VIEW AT OVERLAP**

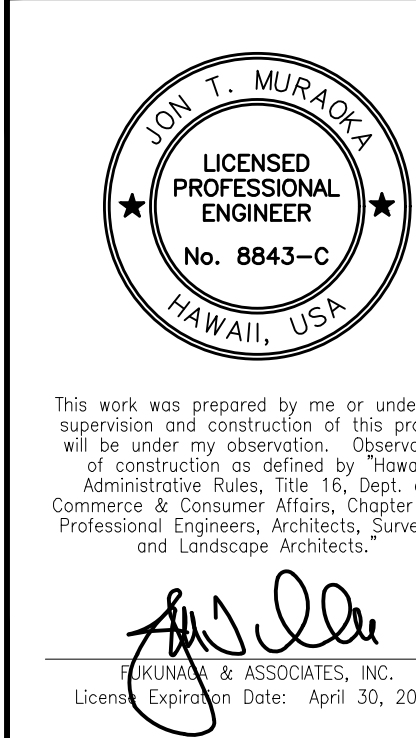
**NOTES:**

- INSTALLATION, INSPECTION, MAINTENANCE AND REMOVAL OF COMPOST FILTER SOCKS SHALL BE DONE IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
- PROVIDE NECESSARY TRAINING FOR PERSONNEL WHO WILL BE RESPONSIBLE FOR IMPLEMENTATION OF BMPS.
- COMPOST SHALL NOT CONTAIN BIOSOLIDS AND SHOULD BE CONSISTENT WITH EPA GUIDELINES.
- NO STAKING REQUIRED UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER, OR REQUIRED DUE TO MOVEMENT.

**4 COMPOST FILTER SOCK DETAIL**  
C014 NOT TO SCALE

**5 DRAIN INLET FILTER DETAIL**  
C014 NOT TO SCALE

**6 CONSTRUCTION INGRESS/EGRESS DETAILS**  
C014 NOT TO SCALE



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<b>EROSION AND SEDIMENT CONTROL PLAN DETAILS</b>			
DESIGN: JC	APPROVED:	DRAWING NO. <b>C014</b>	
DRAWN: JT	CHEF, CIVIL DIVISION, DDC	SHEET <b>14</b>	
CHECKED: JTM	DATE	OF <b>16</b> SHEETS	
DATE: NOVEMBER 2025			
JOB NO. <b>01-24</b>	FILE	DRAW	FOLDER
			NUMBER

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**STRUCTURAL GENERAL NOTES:**

**GENERAL:**

- A. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE AMENDED IBC, 2018. HOWEVER, WHERE PREFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.
- B. THE CONTRACTOR SHALL COMPARE ALL THE CONTRACT DOCUMENTS WITH EACH OTHER AND REPORT IN WRITING TO THE ENGINEER ALL INCONSISTENCIES AND OMISSIONS.
- C. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE ENGINEER ALL INCONSISTENCIES AND OMISSIONS.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY.
- F. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED FOR STABILITY OF STRUCTURAL MEMBERS AND SYSTEMS.
- G. CONSTRUCTION LOADING SHALL NOT EXCEED DESIGN LIVE LOAD UNLESS SPECIAL SHORING IS PROVIDED. PERMITTED CONSTRUCTION LOADS SHALL BE PROPERLY REDUCED IN AREAS WHERE THE STRUCTURE HAS NOT ATTAINED FULL DESIGN STRENGTH.
- H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD. ANY DAMAGED OR DETERIORATED PROPERTY SHALL BE RESTORED TO THE CONDITION PRIOR TO THE BEGINNING OF WORK OR BETTER AT NO COST TO THE STATE.
- I. DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
- J. ELEVATIONS AND DETAILS OF THE EXISTING STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON AS-BUILT DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING ELEVATIONS AND EXISTING STRUCTURE DETAILS AND SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES FOR FURTHER ACTION.
- K. EXCEPT AS NOTED OTHERWISE, ALL VERTICAL DIMENSIONS ARE MEASURED PLUMB.

**DESIGN CRITERIA:**

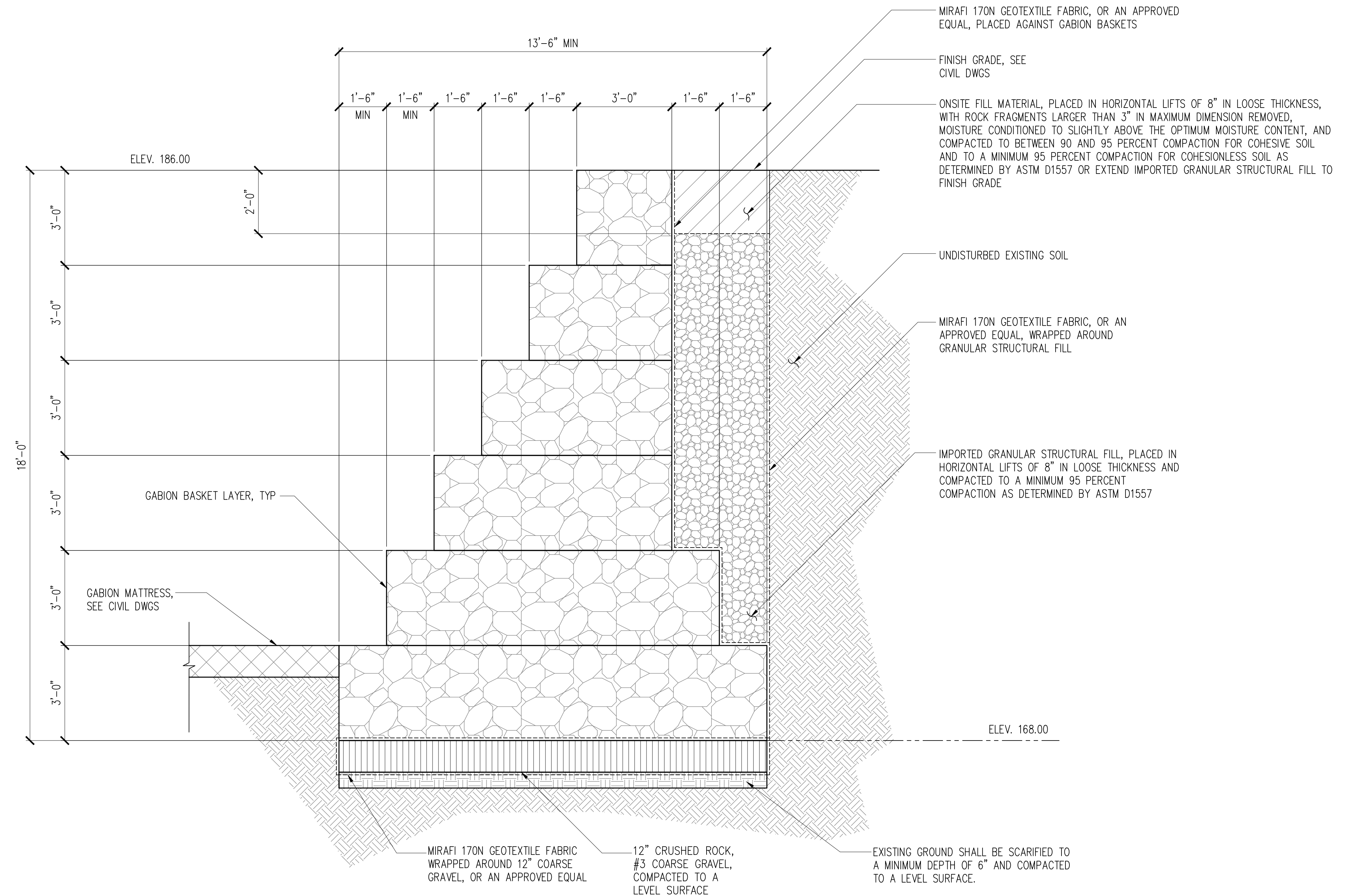
- A. DEAD LOAD
  - 1. WEIGHT OF ALL COMPONENTS OF THE STRUCTURES, APPURTENANCES ATTACHED THERETO, AND EARTH COVERS.
  - 2. UNIT WEIGHT OF ROCK: 120 PCF
  - 3. COMPACTED EARTH: 110 PCF
- B. SEISMIC
  - 1. HORIZONTAL SEISMIC COEFFICIENT,  $K_h=0.18$
- C. DESIGN SOIL PARAMETERS FOR STRUCTURES
  - 1. BEARING CAPACITY: 3,000 PSF
  - 2. PASSIVE EARTH PRESSURE
    - ABOVE WATER TABLE: 300 PCF
    - BELOW WATER TABLE: 200 PCF
  - 3. LATERAL ACTIVE EARTH PRESSURE
    - ABOVE WATER TABLE: 37 PCF
    - BELOW WATER TABLE: 75 PCF
  - 4. COEFFICIENT OF FRICTION: 0.5
  - 5. DYNAMIC LATERAL EARTH PRESSURE: 15.4 PCF

**FOUNDATION:**

- A. FOUNDATION DESIGN IS BASED UPON REPORT OF GEOTECHNICAL EXPLORATION AND ASSESSMENT, MANOA STREAM EROSION CONTROL IMPROVEMENT, BY HIRATA & ASSOCIATES, INC., DATED DECEMBER 2, 2022.
- B. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE. NPDES PERMIT REQUIRED FOR DISCHARGING INTO STATE WATERS.
- C. EXCAVATIONS FOR ANY PURPOSE SHALL NOT REMOVE LATERAL SUPPORT FROM ANY FOOTING OR FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOOTING OR FOUNDATION AGAINST SETTLEMENT OR LATERAL TRANSLATION.
- D. FOOTINGS SHALL BEAR ON A 12" THICK LAYER OF CRUSHED ROCK COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION. BOTTOM OF FOOTINGS SHALL BE COMPACTED TO PROVIDE A RELATIVELY FIRM AND SMOOTH BEARING SURFACE PRIOR TO PLACEMENT OF REINFORCING STEEL AND CONCRETE. PRIOR TO PLACING THE SELECT GRANULAR FILL MATERIAL, THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF ABOUT 12", MOISTURE CONDITIONED TO BETWEEN 2 AND 4 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT, AND RECOMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION. IF SOFT AND/OR LOOSE MATERIALS ARE ENCOUNTERED AT THE BOTTOM OF FOOTING EXCAVATIONS, THEY SHALL BE OVER-EXCAVATED TO EXPOSE THE UNDERLYING FIRM MATERIALS. THE OVER-EXCAVATION SHALL BE BACKFILLED WITH ON-SITE SOILS COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION OR THE FOOTING BOTTOM MAY BE EXTENDED DOWN TO THE UNDERLYING COMPETENT MATERIAL.
- E. UNLESS NOTED OTHERWISE, THE MINIMUM DEPTH OF FOOTINGS BELOW THE UNDISTURBED GROUND SURFACE SHALL BE 18 INCHES.
- F. EXCAVATIONS FOR FOUNDATIONS SHALL BE MONITORED AND APPROVED BY A CIVIL ENGINEER, SPECIALIZED IN GEOTECHNICAL ENGINEERING, WHO IS LICENSED IN THE STATE OF HAWAII FOR PLACEMENT OF CONCRETE AND REINFORCING STEEL TO CONFIRM FOUNDATION BEARING CONDITIONS AND REQUIRED EMBEDMENT DEPTHS.
- G. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL THEY HAVE ATTAINED THEIR FULL DESIGN STRENGTH.
- H. JOINTS IN WALLS AND SLABS, JOINTS BETWEEN WALLS AND SLABS, AND PENETRATIONS IN WALLS AND SLABS SHALL BE MADE WATERTIGHT UTILIZING APPROVED METHODS AND MATERIALS.

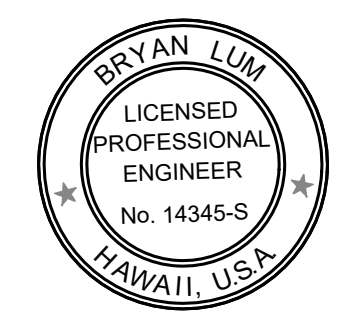
**GABION WALL:**

- A. ALL WORK SHALL CONFORM TO THE DRAWINGS, THESE NOTES, AND THE MANUFACTURER'S RECOMMENDATIONS.
- B. GABION BASKETS SHALL BE FACTORY-FABRICATED WIRE MESH UNITS CONFORMING TO ASTM A975.
- C. WIRE SHALL HAVE A MIN. TENSILE STRENGTH OF 60,000 PSI. COATING SHALL BE HEAVY GALVANIZED OR PVC-COATED GALVANIZED.
- D. GABION BASKETS, MATTRESSES, AND SACK GABIONS SHALL BE DELIVERED TO THE JOB SITE IN BUNDLES AND ASSEMBLED ON SITE PER MANUFACTURER REQUIREMENTS.
- E. GABIONS SHALL BE JOINED USING LACING WIRE, STAINLESS STEEL HOG RINGS, OR APPROVED FASTENERS. FASTENERS SHALL BE INSTALLED AT MAX 4".
- F. ROCK FILL SHALL BE HARD, DURABLE, ANGULAR STONE, FREE FROM FINES AND ORGANIC MATERIAL. STONE SHALL BE LARGER THAN THE MESH OPENINGS AND SHALL HAVE A MINIMUM DENSITY OF 120 PCF.
- G. GABION LIDS SHALL BE STRETCHED TIGHT AND WIRED SECURELY TO FRONT, SIDES, AND DIAPHRAGMS.
- H. GABIONS SHALL BE BUILT ON COMPACTED SUBGRADE WITH NON-WOVEN GEOTEXTILE FABRIC BETWEEN GABIONS AND NATIVE SOIL.
- I. THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S CERTIFICATION OF MATERIAL COMPLIANCE.



1  
S001 **18' GABION RETAINING WALL DETAIL**  
SCALE: 1/2" = 1'-0"

REVISION	DATE	SHT. NO.	APPROVED



DEPARTMENT OF DESIGN AND CONSTRUCTION  
CITY AND COUNTY OF HONOLULU  
CIVIL DIVISION

**MANOA STREAM AT KAHALOA DRIVE  
EROSION CONTROL IMPROVEMENTS**

2790 KAHALOA DRIVE, MANOA, OAHU, HAWAII  
TMK: 2-9-36:24, 2-9-37:12 & 2-9-37:25

GENERAL NOTES AND 18' GABION RETAINING WALL DETAIL

DESIGN: JC	APPROVED:	DRAWING NO. <b>S001</b>
DRAWN: CADD	DATE: OCTOBER 2025	SHEET <b>15</b>
CHECKED: BUM		OF <b>16</b> SHEETS
JOB NO. <b>01-24</b>		FILE ___ DRAW ___ FOLDER ___ NUMBER ___



JOSH GREEN, M.D.  
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE  
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA



STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAI'I  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
KA 'OIHANA KUMUWAIWAI 'ĀINA

STATE HISTORIC PRESERVATION DIVISION  
KAKUHIHEWA BUILDING  
601 KAMOKILA BLVD, STE 555  
KAPOLEI, HAWAII 96707

July 28, 2023

Mr. Haku Milles, P.E., LEED AP, Director  
Department of Design and Construction  
City and County of Honolulu  
650 South King St., 11th Floor  
Honolulu, Hawai'i 96813  
c/o Kristie Ching  
[kching1@honolulu.gov](mailto:kching1@honolulu.gov)

IN REPLY REFER TO:  
Project No.: 2023PR00829  
Doc. No.: 2307SCH09  
Archaeology

Dear Haku Milles:

SUBJECT: **HRS Chapter 6E-8 Historic Preservation Review –  
Manoa Stream at Kahaloa Drive Erosion Control Improvements  
Request for Concurrence with Project Effect Determination  
In Reply to: CDD-A 23-902551  
Archaeological Literature Review  
Waikīkī Ahupua'a, Kona District, Island of O'ahu  
TMK: (1) 2-9-036:024 por.**

This letter provides the State Historic Preservation Division's (SHPD's) review of the City and County of Honolulu, Department of Design and Construction's (DDC) proposed project titled, Manoa Stream at Kahaloa Drive Erosion Control Improvements project. The submittal includes construction plans, site plans, photos of example of Gabion retaining walls, TMK map, HRS 6E Submittal Form, project photographs, and a DDC cover letter dated May 18, 2023. The submittal also includes a supporting document titled *Archaeological Literature Review for Monoa Stream at Kahalo Drive Erosion Control Improvements, Waikīkī Ahupua'a, Kono District, Island of O'ahu, Hawai'i* (Jin and Spear, November 2022). SHPD received the project submittal on July 10, 2023. The DDC indicates in their letter that the project will require a Stream Channel Alteration Permit from the DLNR Commission on Water Resource Management (CWRM) and a Nationwide Permit from the U.S. Army Corps of Engineers and that both applications will be submitted later in the design stage.

The project proponent and area landowner is the City and County of Honolulu. The project totals approximately 1.1 acres. The proposed project involves the stabilization of a badly eroded section of stream bank of Manoa Stream by installing gabion retaining wall along the stream bank and a gabion mattress along the stream bed, and regrading and resurfacing along the top of the embankment. The existing stream bank and portions of the stream bed will be excavated to install the new structures. The excavation will extend approximately 200 feet along the stream for the entire height of the stream bank (15 to 20 feet) and may include approximately 9 feet of the width of the stream bed. The existing embankment will be graded as necessary to match the top of the wall to existing ground surface elevations. Conceptual estimates of cut and fill are 1,900 and 100 cubic yards, respectively. The existing landscaped area adjacent to the top of the embankment may be used for access and equipment staging.

Based on the information provided below, the SHPD concurs with DDC's determination of "no historic properties affected" for the current project. Pursuant to HAR §13-275-7(e), when the SHPD comments that the action shall not affect any significant historic properties, the HRS 6E historic preservation review ends. The HRS §6E-8 historic preservation review process is ended for the subject project.

**However**, due to the need for a Nationwide Permit from the U.S. Army Corps of Engineers, the project is a federal undertaking per 36 CFR 800.16(y) and is subject to compliance with Section 106 of the National Historic Preservation Act (NHPA). **The SHPD looks forwards** to receiving a request from the lead federal agency to initiate Section 106 consultation with the SHPD for the proposed undertaking. SHPD also looks forward to receiving the DLNR CWRM Stream Alteration Permit Application.

A review of SHPD's records and the Literature Review (LR) report (Jin and Spear, November 2022) show that at least 22 archaeological studies have been conducted within and in the vicinity of the project area. These studies documented historic properties including heiau, historic buildings, pōhaku, Kāpapa Lo'i in the Kānewai Cultural Garden, burials, lo'i, caves, remnant agricultural terraces, and pit features. The USDA soil survey (Foote et al. 1972) identifies the soils in the area as Hanalei silty clay, 0 to 2 percent slopes (HnA) areas. The proposed project will not impact the previously documented historic properties..

The LR report (Jin and Spear, November 2022) serves to facilitate project planning and supports the historic preservation review process. Please send one hard copy of the document clearly marked **LIBRARY COPY**, along with a copy of this review letter and a text-searchable PDF version of the document to the Kapolei SHPD office, attention SHPD Library. Please send a text-searchable PDF copy of the LR report to SHPD via HICRIS to Project 2023PR00829 using the Supplemental Attachment option and a PDF copy to [Lehua.K.Soareshawaii.gov](mailto:Lehua.K.Soareshawaii.gov).

**Please** add appropriate CWRM and U.S. Army Corps of Engineers contacts to the Project Contacts and ensure all project related documents and correspondence are submitted to HICRIS Project No. 2023PR00839 using the Project Supplement option.

Please contact Samantha Hemenway, O'ahu Island Archaeologist, at [Samantha.hemenwayhawaii.gov](mailto:Samantha.hemenwayhawaii.gov) or at (808) 692-8011 for any matters regarding archaeological resources or this letter.

Aloha,

*Alan Downer*

Alan S. Downer, PhD  
Administrator, State Historic Preservation Division  
Deputy State Historic Preservation Officer

cc: Howard Koza, [hkoza@honolulu.gov](mailto:hkoza@honolulu.gov)  
Tim Trang, [ttrang@honolulu.gov](mailto:ttrang@honolulu.gov)  
Michael Dega, [mike@scshawaii.com](mailto:mike@scshawaii.com)  
Emily Valenzuela, [evalenzuela@pareninc.com](mailto:evalenzuela@pareninc.com)

**DEPARTMENT OF DESIGN AND CONSTRUCTION**  
**KA 'OIHANA HAKULAU A ME KE KĀPILI**  
**CITY AND COUNTY OF HONOLULU**

850 SOUTH KING STREET, 11TH FLOOR • HONOLULU, HAWAII 96813  
PHONE: (808) 768-8480 • FAX: (808) 768-4567 • WEBSITE: honolulu.gov

RICK BLANGIARDI  
MAYOR  
MEIA



HAKU MILLES, P.E.  
DIRECTOR  
PO'O

BRYAN GALLAGHER, P.E.  
DEPUTY DIRECTOR  
HOPE PO'O

CDD-A 24-915022

January 10, 2024

**DECLARATION OF EXEMPTION**

from the preparation of an environmental assessment under the authority of Chapter 343, HRS, and Chapter 11-200.1, HAR

**Project Title:** Mānoa Stream at Kahaloa Drive Erosion Control Improvements

**Job Number:** 01-24

**Project Description:** The action involves the installation of an approximately 15-foot-high gabion retaining wall along an eroded section of stream bank, gabion mattresses to stabilize the stream bed at the bottom of the wall, and slope stabilization measures along the top of the wall. The proposed gabion walls will be in the same location, will be the same height, and will serve the same purpose as the existing stream bank.

**Consultation:** U.S. Army Corps of Engineers, Honolulu District  
U.S. Fish and Wildlife Service, Pacific Region  
State of Hawai'i, Department of Health, Clean Water Branch  
State of Hawai'i, Department of Land and Natural Resources  
State Historic Preservation Division  
Office of Hawaiian Affairs  
City and County of Honolulu, Department of Parks and Recreation  
Mānoa Neighborhood Board No. 7  
Mānoa area residents

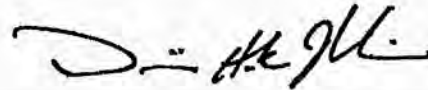
**Reference:** *DDC Exemption List dated September 1, 2020*

**Part 2 Exemptions:** Pursuant to HAR §11-200.1-15(c), DDC has determined that the following types of actions, where they fall within the given classes of action, shall generally be exempt from the preparation of an environmental assessment.

General Type of Action 4: Minor alterations in the conditions of land, water, or vegetation.

Action 4 Item Number	Action 4 Item Description from DDC Exemption List
7	Stream bank repair, stream bank reconstruction, or stream bank lining

I have considered the potential effects of the above listed project as provided by Chapter 343, HRS, and Chapter 11-200.1 HAR. I declare that this project will probably have minimal or no significant effect on the environment and is therefore exempt from the preparation of an environmental assessment.



Haku Milles, P.E., LEED AP  
Director

Date: JAN - 9 2024

SH:bm

Original: CDD-Environmental Documentation  
Copy: CDD-Project Manager  
CDD-Central File (Project)

City and County of Honolulu  
 Department of Design and Construction  
 List of Exemption Notices

Island of Oahu  
 Date Submitted: 1/31/24

Contact Person: Kathryn Nakamoto  
 Contact Phone No.: 808-768-8481  
 Contact Email: kathryn.nakamoto@honolulu.gov

Street Address	Location	Zip Code	TMK	Exemption Type HAR 11-200.1-15 (c)	Project Name and Narrative Description
Mānoa Stream at 1461 Kahaloa Drive	Honolulu	96822	2-9-036:003	4	<p><b>Mānoa Stream at Kahaloa Drive Erosion Control Improvements:</b> Installation of an approx 15-ft high gabion retaining wall along an eroded section of stream bank, gabion mattresses to stabilize the stream bed at the bottom of the wall and slope stabilization measures along the top of the wall. The proposed gabion walls will be in the same location, will be the same height, and will serve the same purpose as the existing stream bank.</p>
550 South King Street (Mission Memorial Bldg) and 558 South King Street (Municipal Reference and Records Management Center)	Honolulu	96813	2-1-033:007	1	<p><b>Civic Center Early Education Center Relocation:</b> Minor modifications to the interiors of both buildings as well as the creation of a new door on the southeastern (Diamond Head) side of the Municipal Reference and Records Management Center. Exterior work includes a 4-ft high chain link fence and gates which will partially enclose the property to provide security for the school, two city-furnished trailers which will provide temporary restroom facilities, sewer and water utilities for the restroom trailers, minor trimming of an existing canopy tree's branches and roots to ensure safety for the children and grassing and mulching of the grounds in order to provide specific playground areas for the children. The proposed ground disturbance includes trenching (295-feet long by 2-feet wide by 3-feet deep) for a new sewer line, grading and grubbing of 440 sq.ft. and areas of minor ground disturbance (4,985 sq.ft.) (e.g., mulching, leveling of trip hazards).</p>



# The Environmental Notice

February 8, 2024

Josh Green, M.D., Governor  
Mary Alice Evans, Interim Director

*The Environmental Notice* provides public notice for projects undergoing environmental review in Hawai'i as mandated under Section 343-3, Hawai'i Revised Statutes, the Environmental Impact Statement Law. Along with publishing Environmental Assessments and Environmental Impact Statements for projects in Hawai'i, *The Environmental Notice* also includes other items related to the shoreline, coastal zone, and federal activities.



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STATEWIDE MAP OF NEW EA/EIS DOCUMENTS & DETERMINATIONS



## HAWAII EAS/EISS

**University of the Nations, Kona, Inc. Master Plan Update--Draft EIS and scoping meeting audio recording**

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds
<b>District(s)</b>	South Kona
<b>TMK(s)</b>	(3) 7-5-010:085; 7-5-017:006
<b>Permit(s)</b>	various (see document)
<b>Approving Agency/ Accepting Authority</b>	State of Hawai'i, Land Use Commission Martina Segura, (808) 587-3825, <a href="mailto:martina.t.segura@hawaii.gov">martina.t.segura@hawaii.gov</a> P.O. Box 2359, Honolulu, HI 96804
<b>Applicant</b>	University of the Nations, Kona Inc.; 75-5851 Kuakini Highway, Kailua-Kona, HI 96740 David Hamilton, (808) 326-7228, <a href="mailto:studentservices@uofnkona.edu">studentservices@uofnkona.edu</a>
<b>Consultant</b>	G70; 111 S. King Street, Suite 170, Honolulu, HI 96813 Jeff Overton, (808) 523-5866, <a href="mailto:uofnkona@g70.design">uofnkona@g70.design</a>
<b>Status</b>	Statutory 45-day public review and comment period starts. <b>Comments are due by March 25, 2024.</b> Please send comments to the approving agency/accepting authority at <a href="mailto:uofnkona@g70.design">uofnkona@g70.design</a>

The Proposed Action is the University of the Nations, Kona, Inc.'s proposed expansion of its existing campus, located in Kailua-Kona on the Island of Hawai'i, onto two neighboring parcels, identified by Tax Map Keys: (3) 7-5-010:085 and 7-5-017:006, that were reclassified to the State Land Use Urban District by the State of Hawai'i Land Use Commission in Docket No. A02-737. Fully developed, the Proposed Action will include student housing, academic instruction buildings, student center, lower school, athletic facilities, chapel, maintenance and storage facilities, and support infrastructure which includes expansion of the existing "spine road", a secondary access point off Kuakini Highway, and necessary roadway improvements. The Proposed Action will require the Applicant to file a motion with the LUC to amend its Findings of Fact, Conclusions of Law, and Decision and Order for a Land Use District Boundary Amendment, dated August 8, 2003, and Change of Zone.

**Pāpa'aloa Park Master Plan and Phase I Development--Draft EA (AFNSI)**

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds
<b>District(s)</b>	North Hilo
<b>TMK(s)</b>	(3) 3-5-003:035; 3-5-003:088
<b>Permit(s)</b>	Special Management Area (SMA) Use Permit – Major; Plan Approval; Grading, Grubbing, and Building Permits; National Pollutant Discharge Elimination System (NPDES) Permit; Drainage Report Approval; Work in the County Right-of-Way Approval; Department of Water Supply Approval; Individual Wastewater System Approval
<b>Proposing/ Determining Agency</b>	County of Hawai'i, Department of Parks and Recreation Kevin Sakai, (808) 961-8311, <a href="mailto:kevin.sakai@hawaiiicounty.gov">kevin.sakai@hawaiiicounty.gov</a> 101 Pauahi Street, Suite 6, Hilo, HI 96720
<b>Consultant</b>	PBR HAWAII & Associates, Inc.; 1001 Bishop Street, Suite 650, Honolulu, HI 96813 Greg Nakai, (808) 521-5631, <a href="mailto:gnakai@pbrhawaii.com">gnakai@pbrhawaii.com</a>
<b>Status</b>	Statutory 30-day public review and comment period starts. <b>Comments are due by March 11, 2024.</b> Please send comments to the proposing/determining agency at <a href="mailto:PapaaloaPark@pbrhawaii.com">PapaaloaPark@pbrhawaii.com</a>

The Pāpa'aloa Park Master Plan would involve: a new covered play court facility (and its future expansion); a new community center building; a skate park; a playground; picnic pavilions; a perimeter walking path; and other park related facilities to be determined; associated on-site and off-site infrastructure and utility improvements/modifications; replacement, improvement, and/or modification of existing park amenities and recreational features impacted by any new/required work; and related improvements necessary to connect all new and existing features of the park physically and with administrative functions in mind. The Phase I Development will be limited to TMK (3) 3-5-003: 088 (4.963 acres). If funding is available, demolition of one or more plantation era structures will occur in TMK (3) 3-5-003: 035 during the Phase I Development.

## HAWAII EAS/EISS (CONTINUED)

**Puna Geothermal Venture Repower Project--Acceptance of Final EIS**

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds
<b>District(s)</b>	Puna
<b>TMK(s)</b>	(3) 1-4-001: 001, 002, and 019
<b>Permit(s)</b>	Building Permit (County), Grading Permit (County), DOH non-covered source permit (for Phase 2, upgrades to 60 MW)
<b>Approving Agency/ Accepting Authority</b>	County of Hawai'i, Planning Department April Surprenant, (808) 961-8288, <a href="mailto:planning@hawaiiicounty.gov">planning@hawaiiicounty.gov</a> 101 Pauahi Street, Suite 3, Hilo, HI 96720
<b>Applicant</b>	Puna Geothermal Venture; P.O. Box 30, Pahoia, HI 96778 Michael Kaleikini, (808) 369-9094, <a href="mailto:mkaleikini@ormat.com">mkaleikini@ormat.com</a>
<b>Consultant</b>	Stantec Consulting Services Inc.; P.O. Box 191, Hilo, HI 96721 Michele Lefebvre, (808) 791-9872, <a href="mailto:michele.lefebvre@stantecgs.com">michele.lefebvre@stantecgs.com</a>
<b>Status</b>	The approving agency/accepting authority accepted the <a href="#">Final EIS</a> (with <a href="#">Appendices</a> ) on January 22, 2024.

Puna Geothermal Venture is currently authorized for and operating a geothermal power plant in the Puna District and proposes to replace the current 12 operating power-generating units with up to four energy converters. The project would increase the production of renewable energy at the existing facility (within the current site fence line) using new, more efficient units on a smaller land footprint compared to the existing units. The project would increase power production from 38 to 46 megawatts in Phase 1 and further increase production to 60 megawatts in Phase 2. The overall property size would remain the same. Most of the existing infrastructure and buildings would remain for the Project including administration buildings, the control room, maintenance areas, well pads, and the gathering system. The proposed new units would continue to safely supply reliable power from renewable geothermal resources with more efficient and quieter equipment.

## MAUI EAS/EISS

**Ha'ikū Fire Station and Related Improvements--2nd Draft EA Vol I and Vol II**

Grandfathered under old rules

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds
<b>District(s)</b>	Wailuku
<b>TMK(s)</b>	(2) 2-7-007:008 (Por.)
<b>Permit(s)</b>	various (see document)
<b>Proposing/ Determining Agency</b>	County of Maui, Department of Fire & Public Safety Bradford Ventura, (808) 270-7561, <a href="mailto:Bradford.Ventura@co.maui.hi.us">Bradford.Ventura@co.maui.hi.us</a> 200 Dairy Road, Kahului, HI 96732
<b>Consultant</b>	Munekiyo Hiraga; 305 High Street, Suite 104, Wailuku, HI 96793 Cathleen Krueger, (808) 244-2015, <a href="mailto:hoku@munekiyohiraga.com">hoku@munekiyohiraga.com</a>
<b>Status</b>	The proponent is publishing a modified version of the <a href="#">Draft EA published on January 8, 2011</a> . Another statutory 30-day public review and comment period starts. <b>Comments are due by March 11, 2024.</b> The Final EA must include comments from all comment periods. Please send comments to the proposing/determining agency at <a href="mailto:planning@munekiyohiraga.com">planning@munekiyohiraga.com</a>

The County of Maui, Department of Fire and Public Safety (DF&PS) proposes to construct a new approximately 10,360 square-foot fire station and related improvements in the vicinity of the Hāna Highway-East Kuiaha Road Intersection in Ha'ikū. The proposed project will be located on a 6.1-acre portion of a 27.9-acre parcel of land.

It is noted that the original Draft Environmental Assessment (DEA) was published in the Office of Environmental Quality Control's [Environmental Notice on January 8, 2011](#) for the proposed project. However, since the original plans for the proposed project in the DEA generated some community concerns, additional community consultation, studies, and agency coordination were carried out, resulting in design refinements. In light of the refinements and reduction in project scope, the DF&PS has decided to publish a 2nd DEA (titled as "Updated Draft EA") to disclose the revised scope of the project, evaluate its potential impacts, and obtain public review and comments.

O‘AHU EAS/EISS

**Waimānalo Beach Park Improvements--Draft EA (AFNSI)**

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds
<b>District(s)</b>	Ko‘olaupoko
<b>TMK(s)</b>	(1) 4-1-003:016; 019; 020; and 040
<b>Permit(s)</b>	Special Management Area Permit, Major; HRS § 6E Historic Preservation Review; Zoning Waiver; Building
<b>Proposing/ Determining Agency</b>	City and County of Honolulu, Department of Design and Construction Bonnie Tung, (808) 768-8451, <a href="mailto:DDCFD@honolulu.gov">DDCFD@honolulu.gov</a> 650 South King Street, 9th Floor, Honolulu, HI 96813
<b>Consultant</b>	Planning Solutions, Inc.; 711 Kapi‘olani Boulevard, Suite 950, Honolulu, HI 96813 Makena White, (808) 550-4538, <a href="mailto:makena@psi-hi.com">makena@psi-hi.com</a>
<b>Status</b>	Statutory 30-day public review and comment period starts. <b>Comments are due by March 11, 2024.</b> Please send comments to the proposing/determining agency at <a href="mailto:makena@psi-hi.com">makena@psi-hi.com</a>

The City is proposing improvements at Waimānalo Beach Park to continue to provide the Waimānalo community with facilities that support recreation. Park improvements are needed because existing and/or former facilities at the park have deteriorated or been removed due to age, weathering, vandalism, and other factors. For example, a pavilion, constructed in 1960, and dedicated to the memory of Gabby “Pop” Pahinui had to be removed in 2019 because it had become a safety concern.

Proposed improvements include the construction of a new pavilion that would be very similar to the former pavilion, the replacement of the two comfort stations, the restoration of the crafts building, and the periodic replacement of other existing park facilities as they wear out or are damaged. **A public meeting regarding the project will be held on Wednesday, February 21, 2024, from 6:30 p.m. to 8:30 p.m. at Waimānalo District Park Gymnasium.**

**Waiāhole Bridge Replacement--Draft EA (AFNSI)**

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds
<b>District(s)</b>	Ko‘olaupoko
<b>TMK(s)</b>	(1) 4-8-001:010; 4-8-002:001; 4-8-008:018, 021, 022, 023, 024, and 025; 4-8-009:001, and 006
<b>Permit(s)</b>	various (see document)
<b>Proposing/ Determining Agency</b>	State of Hawai‘i, Department of Transportation Evan Kimoto, (808) 692-7551, <a href="mailto:evan.kimoto@hawaii.gov">evan.kimoto@hawaii.gov</a> 869 Punchbowl Street, Honolulu, HI 96813
<b>Consultant</b>	PBR HAWAII & Associates, Inc; 1001 Bishop Street, Suite 650, Honolulu, HI 96813 Catie Cullison, (808) 521-5631, <a href="mailto:ccullison@pbrhawaii.com">ccullison@pbrhawaii.com</a>
<b>Status</b>	Statutory 30-day public review and comment period starts. <b>Comments are due by March 11, 2024.</b> Please send comments to the proposing/determining agency at <a href="mailto:sysadmin@pbrhawaii.com">sysadmin@pbrhawaii.com</a>

The Department of Transportation, Highways (HDOT) proposes to replace an existing bridge that crosses Waiāhole Stream at Kamehameha Highway. This bridge replacement is needed because the current bridge is no longer functionally viable or structurally safe; the bridge is over a century old (built in 1922) and is unable to handle the current volume of traffic on Kamehameha Highway. The bridge is also lacking important safety features such as shoulders and pedestrian accessways per the American Association of State Highway Transportation Officials standards.

The project includes highway realignment, construction of a new bridge, demolition of the existing bridge, utility relocations, stream channel alterations, temporary business access, and use of a temporary staging area during construction.

O’AHU EAS/EISs (CONTINUED)

**Honolulu Police Department Communication Facilities Upgrade at Kapa’a Reservoir--Draft EA (AFNSI)**

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds (2) Propose any use within any land classified as a conservation district
<b>District(s)</b>	Ko’olaupoko
<b>TMK(s)</b>	(1) 4-2-017:016
<b>Permit(s)</b>	Conservation District Use Permit, Building Permit
<b>Proposing/ Determining Agency</b>	City and County of Honolulu, Department of Design and Construction Clyde Higa, (808) 768-8424, <a href="mailto:clyde.higa@honolulu.gov">clyde.higa@honolulu.gov</a> 650 South King Street, 11th Floor, Honolulu, HI 96813
<b>Consultant</b>	AGY LLC; 615 Piikoi Street, Suite 1806, Honolulu, HI 96814 Aolani Yamasato-Gragas, (808) 741-6089, <a href="mailto:aolani_y@yahoo.com">aolani_y@yahoo.com</a>
<b>Status</b>	Statutory 30-day public review and comment period starts. <b>Comments are due by March 11, 2024.</b> Please click on title link above to read the document, then send comments to the proposing/determining agency and copy the consultant.

The City and County of Honolulu Department of Design and Construction (DDC), Department of Information Technology (DIT), and Honolulu Police Department (HPD), intend to upgrade the public safety radio communication system at the Board of Water Supply Kapa’a Reservoir parcel in Kāne’ohe, O’ahu. Situated on Oneawa Ridge between Kāne’ohe and Kailua, this property is identified as Tax Map Key 4-2-017:016. The existing communication facility, integral to Honolulu's emergency communications network, serves state, federal, and local public safety agencies, prohibiting public or commercial use. The project aims to replace one microwave truss tower with an 80-foot monopole tower, install a concrete sidewalk, replace propane tanks with a single diesel tank, modify the building's interior, and upgrade the building and all critical appurtenances to withstand Category IV hurricanes. The project will cover approximately 305 square feet of improvements.

**Ka’iwa Ridge Trail Improvements and Management Plan--Final EA (FONSI)**

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds (2) Propose any use within any land classified as a conservation district
<b>District(s)</b>	Ko’olaupoko
<b>TMK(s)</b>	(1) 4-2-002:017; 016 (POR); 048 (POR); 4-3-007:077 (POR); 018 (POR)
<b>Permit(s)</b>	National Pollutant Discharge Elimination System (NPDES) Permit, Community Noise Permit, Special Management Area Use Permit, Conservation District Use Permit, Grubbing, Grading and Trenching Permit
<b>Proposing/ Determining Agency</b>	State of Hawai’i, Department of Land and Natural Resources Marigold Zoll, (808) 286-6378, <a href="mailto:marigold.s.zoll@hawaii.gov">marigold.s.zoll@hawaii.gov</a> 2135 Makiki Heights Drive, Honolulu, HI 96822
<b>Consultant</b>	PBR HAWAII and Associates, Inc.; 1001 Bishop Street, Suite 650, Honolulu, HI 96813 Catie Cullison, (808) 521-5631, <a href="mailto:ccullison@pbrhawaii.com">ccullison@pbrhawaii.com</a>
<b>Status</b>	Finding of No Significant Impact (FONSI) determination

The project proposes to improve the Ka’iwa Ridge Trail by implementing a trail management plan concurrently with the installation of physical improvements to the trail corridor. Proposed improvements include a combination of surface treatments, erosion control measures, fencing or other barriers, and trail signage throughout the trail corridor.

KAUA'I EAS/EISS

[Kapa'a Homesteads 325' Tanks and Exploratory Well--Draft EA \(AFNSI\)](#)

<b>HRS §343-5(a) Trigger</b>	(1) Propose the use of state or county lands or the use of state or county funds
<b>District(s)</b>	Kawaihau
<b>TMK(s)</b>	(4) 4-6-011:003; 125
<b>Permit(s)</b>	various (see document)
<b>Proposing/ Determining Agency</b>	County of Kaua'i, Department of Water Scott Suga, (808) 245-5411, <a href="mailto:sisuga@kauaiwater.org">sisuga@kauaiwater.org</a> 4398 Pua Loke Street, Lihu'e, HI 96766
<b>Consultant</b>	Bowers + Kubota Consulting, Inc.; 2153 N. King Street, Suite 200, Honolulu, HI 96819 Jared Chang, (808) 836-7787, <a href="mailto:jchang@bowersandkubota.com">jchang@bowersandkubota.com</a>
<b>Status</b>	Statutory 30-day public review and comment period starts. <b>Comments are due by March 11, 2024.</b> Please click on title link above to read the document, then send comments to the proposing/determining agency and copy the consultant.

The County of Kaua'i, Department of Water is proposing to construct two 0.5-million gallon (MG) reservoirs, named Kapa'a Homesteads Tanks at the Ornellas Tank Site in Kawaihau, Kaua'i, Hawai'i. The new tanks will supplement the site's existing 0.2-MG storage facility. An exploratory well will also be drilled at this site adjacent to the tanks. The overall objective of the proposed action is to improve water service for the Wailua-Kapa'a community. A new drainage pipe and outlet for the tanks and well are planned to be constructed on a non-contiguous, privately-owned parcel along Ka'apuni Road.

PREVIOUSLY PUBLISHED DOCUMENTS OPEN FOR COMMENT

**Status:** The comment period for these projects began previously. **Comments are due February 22, 2024.** Please click on the links below to read a document, then send comments to the relevant agency and copy any relevant applicant and/or consultant identified in the submission form that follows the initial agency letter.

**HAWAII**

[Hilo Wastewater Treatment Plant Rehabilitation and Replacement--Draft EA \(AFNSI\)](#)

**O'AHU**

[DOE High Core / Storefront School--Draft EA \(AFNSI\)](#)

[Hale O Lipoa Affordable Housing--Draft EA \(AFNSI\) \(ROH Chapter 25\)](#)

LISTS OF EXEMPTION NOTICES

Pursuant to [HAR § 11-200.1-17](#), State and county agencies that have determined specific actions to be exempt from the requirement to prepare an EA are required to submit a listing of such exemptions made during the previous month. Following are Lists of Exemption Notices submitted by various agencies for January 2024; contact the identified agency contact on each list for additional information about any specific exemption:

**State of Hawai'i**

[Department of Accounting and General Services](#)  
[Department of Land and Natural Resources](#)  
[Hawai'i Housing Finance Development Corp.](#)

**County of Maui**

[Department of Environmental Management](#)  
[Department of Public Works](#)  
[Department of Water Supply](#)

**County of Kaua'i**

[Department of Water](#)

**County of Hawai'i**

[Department of Environmental Management](#)

**City and County of Honolulu**

[Department of Design and Construction](#)  
[Department of Planning and Permitting](#)

## COASTAL ZONE MANAGEMENT NOTICES

### FEDERAL CONSISTENCY REVIEWS

The following federal actions are being reviewed for consistency with the enforceable policies of the Hawai'i Coastal Zone Management (CZM) Program, including [the CZM objectives and policies in Hawai'i Revised Statutes, Chapter 205A](#). Federal consistency, pursuant to Section 307 of the Coastal Zone Management Act of 1972 (CZMA), as amended, generally requires that federal actions, within and outside of the coastal zone, which have reasonably foreseeable effects on any coastal use (land or water) or natural resource of the coastal zone be consistent with the enforceable policies of a state's federally approved coastal management program. Federal actions include federal agency activities, federal license or permit activities, and federal financial assistance activities. This public notice is being provided in accordance with § 306(d)(14) of the CZMA, and federal regulations at 15 CFR § 930.2, § 930.42, and § 930.61. General information about federal consistency is available at the [Hawai'i CZM Program web site](#), or call (808) 587-2878.

For specific information or questions about an action listed below, contact Debra Mendes, (808) 587-2840, [Debra.L.Mendes@hawaii.gov](mailto:Debra.L.Mendes@hawaii.gov). The CZM Program is required to adhere to federal review deadlines, therefore, comments must be received by the date specified. Comments may be submitted by mail or electronic mail, to the addresses below.

**Mail:** Office of Planning and Sustainable Development  
 Department of Business, Economic Development and Tourism  
 P.O. Box 2359, Honolulu, HI 96804

**Email:** [Debra.L.Mendes@hawaii.gov](mailto:Debra.L.Mendes@hawaii.gov)

#### **Ka'anapali Temporary Group Housing**

**Proposed Action:** FEMA is proposing the development of approximately 214 temporary housing units with curbed and guttered asphalt roadways with parking and sidewalks. Sewer and water mains will be installed underground within or adjacent to roads. Sewer and water connections will be made along Kaka'alaneo Drive. Electricity will be installed underground, within or adjacent to roads and may require the installation of wooden poles to bring it to the site located east of Halawai Drive. The group site is intended to be operational for up to 18 months and extended depending on the needs of the disaster

**Location:** Ka'anapali, Lahaina, Island of Maui  
**TMK(s):** (2) 4400039  
**Federal Action:** Federal Agency Activity  
**Federal Agency:** Federal Emergency Management Agency  
**Comments Due:** February 22, 2024

### SPECIAL MANAGEMENT AREA (SMA) MINOR PERMITS

The SMA Minor permits below have been approved ([HRS § 205A-30](#)). For more information, contact the relevant county/state planning agency: Honolulu [(808) 768-8015]; Hawai'i [East (808) 961-8288], [West (808) 323-4770]; Kaua'i [(808) 241-4050]; Maui [(808) 270-7735]; Kaka'ako or Kalaeloa Community Development District [(808) 587-2846]

Location (TMK)	Description (File No.)	Applicant/Agent
Hawai'i: South Kona (1-3-002: 111)	Cleaning Vegetation and Fence Construction (PL-SMM-2024-000058)	George Rosenberg
Kaua'i: Hanalei (5-5-002: 040)	Construction/Electric Vehicle Charging Station and an Electric Vehicle Ready Space (SMA(M)-2024-9)	Ching Young Village/Matthew Schaller, Architect
Maui: Kahului (3-7-010: 009)	Install New Carrier on Existing Telecommunications Tower (SM2 2024-00002)	Lisa Alvine
Maui: Kihei (3-9-003: 001)	Co-location of New Telecommunications Equipment at Existing Base Station Telecommunications (SM2 2024-00003)	Robyn Kahalelehua
Maui: Ha'ikū (2-9-012: 042)	Construction of Two New Farm Dwellings, Two New Water Tanks and All Associated Driveways/Utilities; After-the-Fact Installation of Two Individual Wastewater Systems (SM2 2024-00004)	Brandon Murr
Maui: Kihei (3-9-051: 024)	Lot Improvements including Modification of Parking Area, Landscaping, and Addition of a 25' x 15' Training Yard Consisting of Two Utility Poles (SM2 2024-00005)	Duane Fukumoto
O'ahu: Hale'iwa (6-6-030: 042)	Kiopaa Residence Addition (2023/SMA-102)	Elizabeth Friebel/Jimmy Wu
O'ahu: Waikkī (2-6-023: 002)	Eggs 'n Things – Exterior Improvements and Outdoor Dining (2023/SMA-104)	RM Architects, LLC

## SHORELINE NOTICES

## APPLICATIONS FOR SHORELINE CERTIFICATION

The shoreline certification applications below are available for review and comment at the Department of Land and Natural Resources offices on Kaua'i, Hawai'i, Maui, and Honolulu, 1151 Punchbowl Street, Room 220 ([HRS § 205A-42](#) and [HAR § 13-222-12](#)). **Maps and photos of each application file can be viewed [here](#). All comments shall be submitted in writing to the State Land Surveyor, 1151 Punchbowl Street, Room 210, Honolulu, HI 96813 and postmarked no later than 15 calendar days from the date of this public notice of the application.** For more information, contact Rebecca Anderson at [rebecca.l.anderson@hawaii.gov](mailto:rebecca.l.anderson@hawaii.gov)

File No.	Location	TMK	Applicant	Owner
OA-2085	Pohaku Loa Way, O'ahu 96712	(1) 6-1-009:020	Clayton M. Kaneshiro	Carl Hodel
OA-2087	84-939 Farrington Highway, O'ahu 96792	(1) 8-4-004:020	Wesley T. Tengan	Kim Yem Cook Trust
OA-2088	68-617 Crozier Drive, O'ahu 96791	(1) 6-8-004:005	Wesley T. Tengan	Peter H. J. How
MA-818	590 Stable Road, Maui 96779	(2) 3-8-002:094	Akamai Land Surveying, Inc.	Mana Realty Holding Inc. & Peter Klint Martin Trust
MA-819	111 Aleiki Place, Maui 96779	(2) 2-6-012:072	Action Survey LLC	111 Aleiki Place LLC
HA-641	76-6176 & 76-6178 Ali'i Drive, Hawai'i 96740	(3) 7-6-017:037 & 039	Wes Thomas Associates	Jason Block & Alii Residence LLC

## PROPOSED SHORELINE CERTIFICATIONS AND REJECTIONS

The shoreline notices below have been proposed for certification or rejection by the Department of Land and Natural Resources ([HRS § 205A-42](#) and [HAR § 13-222-26](#)). Any person or agency who wants to appeal shall file a notice of appeal in writing with DLNR no later than 20 calendar days from the date of this public notice. Send the appeal to the Board of Land and Natural Resources, 1151 Punchbowl Street, Room 220, Honolulu, Hawai'i 96813.

File No.	Status	Location	TMK	Applicant	Owner
OA-2076	Proposed	84-135 Makau Street, O'ahu 96792	(1) 8-4-010:011	Austin Tsutsumi & Associates, Inc.	Kevin C. McGinnis Trust, Karin L. Bootsma Trust
OA-2077	Proposed	1330 Mokulua Drive, O'ahu 96734	(1) 4-3-004:096	City & County of Hawai'i	Lanikai Association
KA-482	Proposed	650 Aleka Loop, Kaua'i 96746	(4) 4-3-007:028	Lucas Breckenridge & Associates, Inc.	KHS, LLC
MA-813	Rejected	3875 Lower Honoapi'ilani Road, Maui 96761	(2) 4-3-006:041	Ailana Surveying & Geomatics LLC	Charles J. Iannelo
KA-476	Rejected	4914 Weke Road, Kaua'i 96714	(4) 5-5-001:013	Honua Engineering, Inc.	Weke Road Sands, LLC/ Michael Alpert
KA-477	Rejected	4922 Weke Road, Kaua'i 96714	(4) 5-5-001:014	Honua Engineering, Inc.	Blue Makai Properties, LLC
KA-478	Rejected	4936 Weke Road, Kaua'i 96714	(4) 5-5-001:015	Honua Engineering, Inc.	Hanalei Sun Holdings LLC

## APPLICATION FOR ACCRETION

Pursuant to HRS § 501-33, the following application for the registration of land accreted along the ocean has been submitted:

[Torsten Matthew Johnson Amended Petition for Registration of Title to Accretion](#)

Applicable Law: Petition for Registration of Title to Accretion under HRS Chapter 501-33 and Rule 26 of the Rules of the Land Court

Type of Document: Amended Petition for Registration of Title to Accretion

Island/District/TMK: O'ahu / Mokulē'ia, District of Waialua/ (1) 6-7-014: 008

Applicant: Petitioner TORSTEN MATTHEW JOHNSON;  
c/o Janna Ahu, Esq., Dentons US LLP, 1001 Bishop St., Ste. 1800, Honolulu, HI 96813; (808) 524-1800

Status: Land Court, State of Hawai'i / Amended Petition for Registration of Title to Accretion filed January 26, 2024

Project Summary: YOU ARE HEREBY NOTIFIED that Petitioner TORSTEN MATTHEW JOHNSON, has filed an amended petition for registration of title to accretion in the Land Court, State of Hawai'i, 1CLD-20-0001714, to register title to accreted land within lands identified as Lot 1-A-9 as shown on Map 40 of Application No. 1089, Tax Map Key No. (1) 6-7-014: 008, containing 0.22 acres, more or less, all situate, lying and being at Mokulē'ia, District of Waialua, City and County of Honolulu, State of Hawai'i.

## FEDERAL NOTICES

As a courtesy, listed below are some relevant entries from the Federal Register published since the last issue of *The Environmental Notice*. For more information, click on the title link, also available at [www.federalregister.gov](http://www.federalregister.gov).

**Proposed Rule: [Pacific Island Fisheries; Annual Catch Limits and Accountability Measures for Main Hawaiian Islands Kona Crab for Fishing Years 2024-2026](#) (published by the National Oceanic and Atmospheric Administration on 02/05/2024)**

NMFS proposes to implement an annual catch limit (ACL) and an annual catch target (ACT) for main Hawaiian Islands (MHI) Kona crab for fishing years 2024, 2025, and 2026. This proposed action would not revise, add, or remove current accountability measures (AMs) in the regulations. NMFS will close Federal waters to Kona crab fishing for the remainder of the fishing year if NMFS projects the fishery will reach the ACT. NMFS will reduce the ACT and ACL the subsequent fishing year by the overage if landings exceed the ACL. This proposed rule supports the long-term sustainability of MHI Kona crab. Please click on the title link above for additional information and details on submitting comments. **NMFS must receive comments by March 6, 2024.**

**Notice: Draft 2023 [Marine Mammal Stock Assessment Reports](#) (published by the National Oceanic and Atmospheric Administration on 01/29/2024)**

NMFS reviewed the Alaska, Atlantic, and Pacific regional marine mammal stock assessment reports (SAR) in accordance with the Marine Mammal Protection Act (MMPA). SARs for marine mammals in the Alaska, Atlantic, and Pacific regions were revised according to new information. NMFS solicits public comments on the draft 2023 SARs. NMFS is also requesting new information for strategic stocks that were not updated in 2023. Please click on the title link above for additional information and details on submitting comments. **NMFS must receive comments by April 29, 2024.**

## GLOSSARY OF TERMS AND DEFINITIONS

### Agency Actions

Projects or programs proposed by any department, office, board, or commission of the state or county government which is part of the executive branch of that government per [HRS 343-2](#).

### Applicant Actions

Projects or programs proposed by any person who, pursuant to statute, ordinance, or rule, requests approval for a proposed action per [HRS 343-2](#).

### Draft Environmental Assessment

When an Agency or Applicant proposes an action that [triggers](#) HRS 343, an Environmental Assessment shall be prepared at the earliest practicable time to determine whether the action's environmental impact will be significant, and thus whether an environmental impact statement shall be required per [HRS 343-5\(b\)](#), for Agency actions and [HRS 343-5\(e\)](#), for Applicant actions. For actions for which the proposing or approving agency anticipates a Finding of No Significant Impact (AFNSI), a Draft EA (DEA) shall be made available for public review and comment for 30 days and public notice is published in this periodic bulletin.

### Final Environmental Assessment and Finding of No Significant Impact

The action's proponent shall respond in writing to comments on a DEA received during the 30-day review period and prepare a Final EA (FEA) that includes those responses to determine whether an environmental impact statement shall be required. If there are no significant impacts, then the Agency will issue a Finding of No Significant Impact (FONSI). An Environmental Impact Statement (EIS) will not be required and the project has cleared HRS 343 requirements. The public has 30 days from the notice of a FONSI in this bulletin to challenge the FONSI in the Environmental Court and seek a ruling to require the preparation of an EIS.

### Final Environmental Assessment and Environmental Impact Statement Preparation Notice

An EIS shall be required if the Agency finds that the proposed action may have a significant effect on the environment. The Agency shall file notice of such determination with OPSD called an EIS Preparation Notice (EISPN) along with the supporting Final EA. After the notice of the FEA-EISPN is published in this bulletin, the public has 30 days to request to become a consulted party and to make written comments. The public (including the Applicant) has 60 days from the notice of the EISPN in this bulletin to ask a court to not require the preparation of an EIS.

### Act 172-2012, Direct-to-EIS, Environmental Impact Statement Preparation Notice (with no EA)

Act 172 in 2012 amended HRS 343 by providing for an agency to bypass the preparation of an environmental assessment for various actions that in the experience of the agency would clearly require the preparation of an EIS. The agency must submit its determination that an EIS is required for an action (Act 172-2012, EISPN) with a completed publication form detailing the specifics of the action. This starts a 30-day scoping period in which the agency or applicant must hold a public scoping meeting for the preparation of the Draft EIS. Written comments and responses on the EISPN must be incorporated into the subsequent Draft EIS and oral comments from the public scoping meeting must be recorded and submitted to OPSD with the Draft EIS.

### HEPA

While technically there is no "Hawai'i Environmental Policy Act," HRS 343 is often referred to by this term.

### Act 312-2012, Secondary Actions in the Highway or Public Right Of Way

Act 312-2012, amended HRS 343, by adding a new section ([HRS 343-5.5](#), entitled "Exception to applicability of chapter"). HEPA allows for a statutory exception for "secondary actions" (those that involve infrastructure in the highway or public right-of-way) provided that the permit or approval of the related "primary action" (those outside of the highway or public-right-of-way and on private property) is not subject to discretionary consent and further provided that the applicant for the primary action submits documentation from the appropriate agency confirming that no further discretionary approvals are required. An aid to understanding this is to visualize residential driveway improvements in the public right-of-way, versus, retail outlet driveway improvements in the public right-of-way.

### Draft Environmental Impact Statement

After receiving the comments on the EISPN, the Agency or Applicant must prepare a Draft Environmental Impact Statement (DEIS). The content requirements of the DEIS shall contain an explanation of the environmental consequences of the proposed action including the direct, indirect and cumulative impacts and their mitigation measures. The public has 45 days from the first publication date in this bulletin to comment on a DEIS.

### Final Environmental Impact Statement

After considering all public comments filed during the DEIS stage, the Agency or Applicant must prepare a Final EIS (FEIS). The FEIS must respond in a point-by-point manner to all comments from the draft and must be included in the FEIS. For Applicant projects, the Approving Agency is the Accepting Authority and must make a determination within 30 days or the FEIS is deemed accepted as a matter of law. For an Agency project, the Governor or the Mayor (or their designated representative) is the Accepting Authority, and unlike applicant actions, there is no time limit on the accepting authority reviewing the FEIS. Only after the FEIS is accepted may the project be implemented.

### Acceptability

The Accepting Authority must be satisfied that the FEIS meets three criteria (process, content, response to comments) to accept it. Whether the FEIS is accepted or not accepted, notice of the Acceptance Determination is published in this bulletin. The public has 60 days from publication to legally challenge the acceptance of a FEIS. For both Applicant and Agency actions, the Applicant or the proposing Agency can prepare a Revised DEIS after a non-acceptance determination.



Maui sunset

Photo by [Thomas Hawk](#)

### National Environmental Policy Act

The National Environmental Policy Act (NEPA) requires federal projects to prepare a Federal EA or EIS. In many ways it is similar to Hawai'i's law. Some projects require both a State and Federal EIS and the public comment procedure should be coordinated. Upon request by a federal agency, OPSD publishes NEPA notices in this bulletin to help keep the public informed of important federal actions.

### Conservation District

Proposed uses of land in the State Conservation District require a Conservation District Use Application (CDUA). These applications are reviewed and approved/denied by the Department or Board of Land and Natural Resources. Members of the public may intervene in the permit process. This bulletin will include EAs & EISs for actions proposed within the Conservation District.

### Special Management Area and Shoreline Setback Area

The Special Management Area (SMA) is along the coastline of all islands; development in this area is generally regulated by [HRS 205A](#), and county ordinance. A portion of the SMA that is addressed by HRS 343 is the [Shoreline Area](#), which includes land between the State-certified shoreline and the county-determined shoreline setback line. This bulletin will include EAs & EISs for actions proposed within the Shoreline Setback Area. Some projects going through the SMA permit process on O'ahu are also required to go through an environmental review process that mirrors HRS 343; these "ROH Chapter 25" EAs/EISs are included in this bulletin.

### Shoreline Certifications

State law requires that Hawai'i shorelines be surveyed and certified when necessary to clearly establish the shoreline setback from the certified shoreline. The public may participate in the process to help assure accurate regulatory boundaries. Private land owners often petition to have their shoreline certified by the State surveyor prior to construction. This bulletin publishes notice from the Department of Land and Natural Resources of shoreline certification applicants and final certifications or rejections.

### Environmental Advisory Council

The [Environmental Advisory Council](#) is a 15-member citizen board appointed by the Governor. They serve as a liaison between the Director of OPSD and the general public concerning ecology and environmental quality. Agendas of their regular meetings are posted on the Internet and the public is invited to attend.

### Agency Exemption Lists

Government agencies may keep a list describing the minor activities they regularly perform that are exempt from the environmental review process. These lists and any amendments shall be submitted to the Council for review and concurrence (HAR 11-200.1-16). This bulletin will publish an agency's draft exemption list for public comment prior to Council decision making, as well as notice of the Council's decision on the list.

### Endangered Species

This bulletin is required by [HRS 343-3\(c\)](#), to publish notice of public comment periods or public hearings for Habitat Conservation Plans (HCP), Safe Harbor Agreements (SHA), or Incidental Take Licenses (ITL) under the federal Endangered Species Act, as well as availability for public inspection of a proposed HCP or SHA, or a proposed ITL (as a part of an HCP or SHA).



**FUKUNAGA & ASSOCIATES, INC.**  
CONSULTING ENGINEERS

October 29, 2024

Subdivision Branch, 8<sup>th</sup> Floor  
Department of Planning and Permitting  
City and County of Honolulu  
650 South King Street  
Honolulu, HI 96813

Dear Sir or Madam:

**Re: Manoa Stream at Kahaloa Drive Erosion Control Improvements  
Department of Design and Construction, City and County of Honolulu  
Honolulu, Oahu, Hawaii**

For your review and comment, please find enclosed five (5) full-size sets of the engineering design drawings, and one (1) copy of the floodway permit materials for the subject project, including the topographic survey map, the Justification Statement, the FHAT Report, the Floodway Certification, the FEMA "No-Rise" Certification and the Flood Elevation Analysis report. This project will involve the installation of a gabion retaining wall to stabilize the streambank along Manoa Stream within a City and County of Honolulu property.

Please feel free to contact the undersigned if you have any questions or concerns.

Regards,

Lance Fukumoto, P.E.  
Project Engineer

Telephone: (808) 944-1821  
Email: lfukumoto@fukunagaengineers.com

Encl.



U.S. Army Corps of Engineers (USACE)
NATIONWIDE PERMIT PRE-CONSTRUCTION NOTIFICATION (PCN)
For use of this form, see 33 CFR 330; the proponent agency is CECW-CO-R.

Form Approved -
OMB No. 0710-0003
Expires: 2027-03-31

DATA REQUIRED BY THE PRIVACY ACT OF 1974

Authority Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Regulatory Program of the Corps of Engineers (Corps); Final Rule 33 CFR 320-332.
Principal Purpose Information provided on this form will be used in evaluating the nationwide permit pre-construction notification.
Routine Uses This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of the agency coordination process.
Disclosure Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued.

The public reporting burden for this collection of information, 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at . Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR RESPONSE TO THE ABOVE EMAIL.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the district engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

Table with 4 columns: 1. APPLICATION NO., 2. FIELD OFFICE CODE, 3. DATE RECEIVED, 4. DATE APPLICATION COMPLETE

(ITEMS BELOW TO BE FILLED BY APPLICANT)

Table with 2 columns: 5. APPLICANT'S NAME (First - Haku, Middle -, Last - Milles, Company - C&C Honolulu Department of Design and Construction, Company Title - Director, E-mail Address - kching1@honolulu.gov (Project Manager)), 8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) (First - Lance, Middle -, Last - Fukumoto, Company - Fukunaga and Associates, Inc., E-mail Address - lfukumoto@fukunagaengineers.com), 6. APPLICANT'S ADDRESS (Address- 650 South King Street, 11th Floor, City - Honolulu, State - HI, Zip - 96813, Country - US), 9. AGENT'S ADDRESS (Address- 1357 Kapiolani Blvd, Suite 1530, City - Honolulu, State - HI, Zip - 96814, Country - US), 7. APPLICANT'S PHONE NOS. with AREA CODE (a. Residence, b. Business (808) 768-8480, c. Fax (808) 768-4567, d. Mobile), 10. AGENT'S PHONE NOS. with AREA CODE (a. Residence, b. Business (808) 944-1821, c. Fax (808) 946-9339, d. Mobile)

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Lance Fukumoto to act in my behalf as my agent in the processing of this nationwide permit pre-construction notification and to furnish, upon request, supplemental information in support of this nationwide permit pre-construction notification.

Signature of Lance Fukumoto dated 4/10/25
SIGNATURE OF APPLICANT DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME or TITLE (see instructions)
Manoa Stream at Kahaloa Drive Erosion Control Improvements

## NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

13. NAME OF WATERBODY, IF KNOWN <i>(if applicable)</i> Manoa Stream				14. PROPOSED ACTIVITY STREET ADDRESS <i>(if applicable)</i> 2790 Kahaloa Drive	
15. LOCATION OF PROPOSED ACTIVITY <i>(see instructions)</i>				City:	State: Zip:
Latitude	°N	Longitude	°W	Honolulu	HI 96822
	21.314444		157.805833		
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN <i>(see instructions)</i>					
State Tax Parcel ID 29036024			Municipality City and County of Honolulu		
Section	Township		Range		
N/A	N/A		N/A		
17. DIRECTIONS TO THE SITE From the intersection of E Manoa Rd and Kahaloa Dr, head northwest on Kahaloa Drive and cross Kahaloa Bridge. The site is about 500 ft from Kahaloa Bridge in the upstream direction.					
18. IDENTIFY THE SPECIFIC NATIONWIDE PERMIT(S) YOU PROPOSE TO USE NWP 13					
19. DESCRIPTION OF PROPOSED NATIONWIDE PERMIT ACTIVITY <i>(see instructions)</i> The work will include the installation of an approximately 15-foot-high gabion retaining wall, gabion mattresses along portions of the stream bed, and slope stabilization measures along the top of the wall. Installation of these structures will require excavation within the stream.					
20. DESCRIPTION OF PROPOSED MITIGATION MEASURES <i>(see instructions)</i> Silt curtains within stream surrounding the grading extents to prevent sediment from migrating downstream. Compost filter sock around grading extents on-land side to prevent sediment migration during runoff flow events.					
21. PURPOSE OF NATIONWIDE PERMIT ACTIVITY <i>(Describe the reason or purpose of the project, see instructions)</i> The purpose is to stabilize a portion of the stream bank of Manoa Stream within the Manoa Gardens Elderly Housing property at 2790 Kahaloa Drive (TMK 2-9-036:024) that is experiencing significant erosion. If the streambank is not stabilized erosion will continue to occur and encroach further into the City property. The project area is currently used for recreational purposes and stabilizing the stream bank will improve recreational activities within the area. Construction is estimated to begin in December 2025 and be completed by March 2027.					
22. QUANTITY OF WETLANDS, STREAMS, OR OTHER TYPES OF WATERS DIRECTLY AFFECTED BY PROPOSED NATIONWIDE PERMIT ACTIVITY <i>(see instructions)</i>					
Acres	Linear Feet		Cubic Yards Dredged or Discharged		
0.22 acres of perennial stream, no wetland	250 ft long x 40 ft wide		885 CY		
<b>Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site.</b>					
23. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. <i>(see instructions)</i>					
1. Stream Channel Alteration Permit (SCAP) Commission on Water Resources Management (CWRM)					
2. City and County of Honolulu (CCH) Building Permit					
3. CCH Department of Design and Construction (DDC) Environmental Assessment (EA) Exemption					
24. If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and requires pre-construction notification, explain how the compensatory mitigation requirement in paragraph (c) of general condition 23 will be satisfied, or explain why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required for the proposed activity. No wetland loss.					

25. Is any portion of the nationwide permit activity already complete?  Yes  No If Yes, describe the completed work:  
 N/A

26. List the name(s) of any species listed as endangered or threatened under the Endangered Species Act that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. (see instructions)  
 No critical habitat for any species is present within the proposed NWP activity area. The project area is within a known nesting and breeding range for the White Tern seabird. See Natural Resources Survey report attached.

27. List any historic properties that have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic property or properties. (see instructions)  
 There were no historic properties identified within the proposed NWP activity area based on the Archaeological Literature Review provided by Scientific Consultant Services, Inc. in 2022. See report attached. SHPD concurs with DDC's determination of "no historic properties affected" for the current project. See letter attached.

28. For a proposed NWP activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, identify the Wild and Scenic River or the "study river".  
 N/A

29. If the proposed NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, have you submitted a written request for section 408 permission from the Corps district having jurisdiction over that project?  Yes  No  
 If "yes", please provide the date your request was submitted to the Corps district:

30. If the terms of the NWP(s) you want to use require additional information to be included in the PCN, please include that information in this space or provide it on an additional sheet of paper marked Block 30. (see instructions)  
 A study was performed to determine that the proposed NWP activity will not adversely affect stream flow elevation levels during flood events. See Water Surface Elevation Analysis attached.

31. Pre-construction notification is hereby made for one or more nationwide permit(s) to authorize the work described in this notification. I certify that the information in this pre-construction notification is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

h. m. jordan      4/10/25      Donce Delbert      5/19/25  
 SIGNATURE OF APPLICANT      DATE      SIGNATURE OF AGENT      DATE

The pre-construction notification must be signed by the person who desires to undertake the proposed activity (applicant) and, if the statement in Block 11 has been filled out and signed, the authorized agent.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

**Instructions for Preparing a  
Department of the Army  
Nationwide Permit (NWP) Pre-Construction Notification (PCN)**

**Blocks 1 through 4.** To be completed by the Corps of Engineers.

**Block 5. Applicant's Name.** Enter the name and the e-mail address of the responsible party or parties. If the responsible party is an agency, company, corporation, or other organization, indicate the name of the organization and responsible officer and title. If more than one party is associated with the preconstruction notification, please attach a sheet of paper with the necessary information marked Block 5.

**Block 6. Address of Applicant.** Please provide the full address of the party or parties responsible for the PCN. If more space is needed, attach an extra sheet of paper marked Block 6.

**Block 7. Applicant's Telephone Number(s).** Please provide the telephone number where you can usually be reached during normal business hours.

**Blocks 8 through 11.** To be completed, if you choose to have an agent.

**Block 8. Authorized Agent's Name and Title.** Indicate name of individual or agency, designated by you, to represent you in this process. An agent can be an attorney, builder, contractor, engineer, consultant, or any other person or organization. Note: An agent is not required.

**Blocks 9 and 10. Agent's Address and Telephone Number.** Please provide the complete mailing address of the agent, along with the telephone number where he / she can be reached during normal business hours.

**Block 11. Statement of Authorization.** To be completed by the applicant, if an agent is to be employed.

**Block 12. Proposed Nationwide Permit Activity Name or Title.** Please provide a name identifying the proposed NWP activity, e.g., Windward Marina, Rolling Hills Subdivision, or Smith Commercial Center.

**Block 13. Name of Waterbody.** Please provide the name (if it has a name) of any stream, lake, marsh, or other waterway to be directly impacted by the NWP activity. If it is a minor (no name) stream, identify the waterbody the minor stream enters.

**Block 14. Proposed Activity Street Address.** If the proposed NWP activity is located at a site having a street address (not a box number), please enter it in Block 14.

**Block 15. Location of Proposed Activity.** Enter the latitude and longitude of where the proposed NWP activity is located. Indicate whether the project location provided is the center of the project or whether the project location is provided as the latitude and longitude for each of the "corners" of the project area requiring evaluation. If there are multiple sites, please list the latitude and longitude of each site (center or corners) on a separate sheet of paper and mark as Block 15.

**Block 16. Other Location Descriptions.** If available, provide the Tax Parcel Identification number of the site, Section, Township, and Range of the site (if known), and / or local Municipality where the site is located.

**Block 17. Directions to the Site.** Provide directions to the site from a known location or landmark. Include highway and street numbers as well as names. Also provide distances from known locations and any other information that would assist in locating the site. You may also provide a description of the location of the proposed NWP activity, such as lot numbers, tract numbers, or you may choose to locate the proposed NWP activity site from a known point (such as the right descending bank of Smith Creek, one mile downstream from the Highway 14 bridge). If a large river or stream, include the river mile of the proposed NWP activity site if known. If there are multiple locations, please indicate directions to each location on a separate sheet of paper and mark as Block 17.

**Block 18. Identify the Specific Nationwide Permit(s) You Propose to Use.** List the number(s) of the Nationwide Permit(s) you want to use to authorize the proposed activity (e.g., NWP 29).

**Block 19. Description of the Proposed Nationwide Permit Activity.** Describe the proposed NWP activity, including the direct and indirect adverse environmental effects the activity would cause. The description of the proposed activity should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal. Identify the materials to be used in construction, as well as the methods by which the work is to be done.

Provide sketches when necessary to show that the proposed NWP activity complies with the terms of the applicable NWP(s). Sketches usually clarify the activity and result in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed NWP activity (e.g., a conceptual plan), but do not need to be detailed engineering plans.

The written descriptions and illustrations are an important part of the application. Please describe, in detail, what you wish to do. If more space is needed, attach an extra sheet of paper marked Block 19.

**Block 20. Description of Proposed Mitigation Measures.** Describe any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed NWP activity. The description of any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or additional mitigation measures.

**Block 21. Purpose of Nationwide Permit Activity.** Describe the purpose and need for the proposed NWP activity. What will it be used for and why? Also include a brief description of any related activities associated with the proposed project. Provide the approximate dates you plan to begin and complete all work.

**Block 22. Quantity of Wetlands, Streams, or Other Types of Waters Directly Affected by the Proposed Nationwide Permit Activity.** For discharges of dredged or fill material into waters of the United States, provide the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained by the proposed NWP activity. For structures or work in navigable waters of the United States subject to Section 10 of the Rivers and Harbors Act of 1899, provide the amount of navigable waters filled, dredged, or occupied by one or more structures (e.g., aids to navigation, mooring buoys) by the proposed NWP activity.

For multiple NWPs, or for separate and distant crossings of waters of the United States authorized by NWPs 12 or 14, attach an extra sheet of paper marked Block 21 to provide the quantities of wetlands, streams, or other types of waters filled, flooded, excavated, or drained (or dredged or occupied by structures, if in waters subject to Section 10 of the Rivers and Harbors Act of 1899) for each NWP. For NWPs 12 and 14, include the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained for each separate and distant crossing of waters or wetlands. If more space is needed, attach an extra sheet of paper marked Block 22.

**Block 23. Identify Any Other Nationwide Permit(s), Regional General Permit(s), or Individual Permit(s) Used to Authorize Any Part of Proposed Activity or Any Related Activity.** List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. For linear projects, list other separate and distant crossings of waters and wetlands authorized by NWPs 12 or 14 that do not require PCNs. If more space is needed, attach an extra sheet of paper marked Block 23.

**Block 24. Compensatory Mitigation Statement for Losses of Greater Than 1/10-Acre of Wetlands When Pre-Construction Notification is Required.** Paragraph (c) of NWP general condition 23 requires compensatory mitigation at a minimum one-for-one replacement ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation is more environmentally appropriate or the adverse environmental effects of the proposed NWP activity are no more than minimal without compensatory mitigation, and provides an activity-specific waiver of this requirement. Describe the proposed compensatory mitigation for wetland losses greater than 1/10 acre, or provide an explanation of why the district engineer should not require wetland compensatory mitigation for the proposed NWP activity. If more space is needed, attach an extra sheet of paper marked Block 24.

**Block 25. Is Any Portion of the Nationwide Permit Activity Already Complete?** Describe any work that has already been completed for the NWP activity.

**Block 26. List the Name(s) of Any Species Listed As Endangered or Threatened under the Endangered Species Act that Might be Affected by the Nationwide Permit Activity.** If you are not a federal agency, and if any listed species or designated critical habitat might be affected or is in the vicinity of the proposed NWP activity, or if the proposed NWP activity is located in designated critical habitat, list the name(s) of those endangered or threatened species that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 7 of the Endangered Species Act.

**Block 27. List Any Historic Properties that Have the Potential to be Affected by the Nationwide Permit Activity.** If you are not a Federal agency, and if any historic properties have the potential to be affected by the proposed NWP activity, list the name(s) of those historic properties that have the potential to be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

**Block 28. List the Wild and Scenic River or Congressionally Designated Study River if the Nationwide Permit Activity Would Occur in such a River.** If the proposed NWP activity will occur in a river in the National Wild and Scenic River System or in a river officially designated by Congress as a "study river" under the Wild and Scenic Rivers Act, provide the name of the river. For a list of Wild and Scenic Rivers and study rivers, please visit .

**Block 29. Nationwide Permit Activities that also Require Permission from the Corps Under 33 U.S.C. 408.** If the proposed NWP activity also requires permission from the Corps under 33 U.S.C. 408 because it will temporarily or permanently alter, occupy, or use a Corps federal authorized civil works project, indicate whether you have submitted a written request for section 408 permission from the Corps district having jurisdiction over that project.

**Block 30. Other Information Required For Nationwide Permit Pre-Construction Notifications.** The terms of some of the Nationwide Permits include additional information requirements for preconstruction notifications:

- \* NWP 3, Maintenance –information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals.
- \* NWP 31, Maintenance of Existing Flood Control Facilities –a description of the maintenance baseline and the dredged material disposal site.
- \* NWP 33, Temporary Construction, Access, and Dewatering –a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions.
- \* NWP 44, Mining Activities –if reclamation is required by other statutes, then a copy of the final reclamation plan must be submitted with the pre-construction notification.
- \* NWP 45, Repair of Uplands Damaged by Discrete Events –documentation, such as a recent topographic survey or photographs, to justify the extent of the proposed restoration.
- \* NWP 48, Commercial Shellfish Aquaculture Activities –(1) a map showing the boundaries of the project area, with latitude and longitude coordinates for each corner of the project area; (2) the name(s) of the species that will be cultivated during the period this NWP is in effect; (3) whether canopy predator nets will be used; (4) whether suspended cultivation techniques will be used; and (5) general water depths in the project area (a detailed survey is not required).
- \* NWP 49, Coal Remining Activities –a document describing how the overall mining plan will result in a net increase in aquatic resource functions must be submitted to the district engineer and receive written authorization prior to commencing the activity.
- \* NWP 50, Underground Coal Mining Activities –if reclamation is required by other statutes, then a copy of the reclamation plan must be submitted with the pre-construction notification.

If more space is needed, attach an extra sheet of paper marked Block 30.

**Block 31. Signature of Applicant or Agent.** The PCN must be signed by the person proposing to undertake the NWP activity, and if applicable, the authorized party (agent) that prepared the PCN. The signature of the person proposing to undertake the NWP activity shall be an affirmation that the party submitting the PCN possesses the requisite property rights to undertake the NWP activity (including compliance with special conditions, mitigation, etc.).

#### **DELINEATION OF WETLANDS, OTHER SPECIAL AQUATIC SITES, AND OTHER WATERS**

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current wetland delineation manual and regional supplement published by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. The 45 day PCN review period will not start until the delineation is submitted or has been completed by the Corps.

#### **DRAWINGS AND ILLUSTRATIONS**

##### **General Information.**

Three types of illustrations are needed to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map, a Plan View or a Typical Cross-Section Map. Identify each illustration with a figure or attachment number. For linear projects (e.g. roads, subsurface utility lines, etc.) gradient drawings should also be included. Please submit one original, or good quality copy, of all drawings on 8½x11 inch plain white paper (electronic media may be substituted). Use the fewest number of sheets necessary for your drawings or illustrations. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view, or cross-section). While illustrations need not be professional (many small, private project illustrations are prepared by hand), they should be clear, accurate, and contain all necessary information.

#### **ADDITIONAL INFORMATION AND REQUIREMENTS**

For proposed NWP activities that involve discharges into waters of the United States, water quality certification from the State, Tribe, or EPA must be obtained or waived (see NWP general condition 25). Some States, Tribes, or EPA have issued water quality certification for one or more NWPs. Please check the appropriate Corps district web site to see if water quality certification has already been issued for the NWP(s) you wish to use. For proposed NWP activities in coastal states, state Coastal Zone Management Act consistency concurrence must be obtained, or a presumption of concurrence must occur (see NWP general condition 26). Some States have issued Coastal Zone Management Act consistency concurrences for one or more NWPs. Please check the appropriate Corps district web site to see if Coastal Zone Management Act consistency concurrence has already been issued for the NWP(s) you wish to use.



Federal Emergency Management Agency  
Washington, D.C. 20472

CERTIFICATION OF A "NO-RISE" DETERMINATION  
FOR A PROPOSED FLOODWAY DEVELOPMENT

Manoa  
Community Name

Manoa Gardens Elderly Housing  
Development Name

TMK 2-9-36:24  
Lot/Property Designation

City and County of Honolulu  
Property Owner

I hereby certify that the proposed remedial measures, in combination with the property development designated above, will result in no loss of flow conveyance during the occurrence of the 1 percent annual chance of exceedence (100-year flood) discharge.

I further certify that the data submitted herewith in support of this request are accurate to the best of my knowledge, that the analyses have been performed correctly and in accordance with sound engineering practice, and that the proposed structural works are designed in accordance with sound engineering practice.

10/29/2024  
Date

[Signature]  
Registered Professional Engineer

Seal

