



## HO'ALA LOKO I'A APPLICATION

**Fishpond Name:** Kapoho Fishpond

**Applicant Name:** Hawaiian Land Trust

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Ahupua'a, District, Island: Waihe'e, Wailuku-Kahului, Maui

Nearest Tax Map Key(s): 232010001

Proposed Commencement Date: September 2025

Proposed Completion Date: June 2026

Estimated Project Cost: \$1.5 million

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### WORK SUMMARY

**Maintenance activities** (no permit needed; DLNR can issue letter of consistency if requested)

- ☐ Removal of invasive species in an area less than one acre
- ☐ Minor repair and restoration of pond walls, 'auwai, mākāhā, etc. (less than 10% damage)
- ☐ Landscaping with native species

#### Tier 1 permits

- ☐ Removal of invasive species in an area greater than one acre
- ☐ Moderate repair and restoration (10% to 50% damage)
- ☐ Dredging by non-mechanized means

#### Tier 2 and 3 permits

- ☒ Major repair and restoration (greater than 50% damage)
- ☐ Moderate change (10-50%) in the dimensions of the original structure (e.g. thicker or higher walls)
- ☒ Dredging using mechanized equipment.  
Estimated volume of dredging: 3,000 to 4,300 CY
- ☒ Vegetation removal using mechanized equipment  
Estimated area of clearing: 6 acres

For Tier 2 and 3 permits, please also consult with Dept. of Army Corps of Engineers to determine if the project is eligible for a Nationwide Permit 3

## REQUIRED SIGNATURES

### Applicant

Name: 'Olu Campbell

Title; Agency: President & CEO, Hawai'i Land Trust

Mailing Address: 1108 Fort Street Mall, Suite 4, Honolulu, HI 96813

Contact Person & Title: Kiai Collier, Land Steward and Educator Waihe'e Coastal Dunes

Phone: 808-344-8079

Email: kiai.collier@hilt.org

Interest in Property: Fee Simple

Signature:  Date: 7/9/25

*Signed by an authorized officer if for a Corporation, Partnership, Agency or Organization*

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### Landowner (if different than the applicant)

Name: Click or tap here to enter text.

Title; Agency: Click or tap here to enter text.

Mailing Address: Click or tap here to enter text.

Phone: Click or tap here to enter text.

Email: Click or tap here to enter text.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*For public lands, the government entity with management control shall sign as landowner.*

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### Agent or Consultant

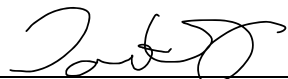
Agency: EcoSolutions

Contact Person & Title: David Whitney, CEO

Mailing Address: 147 Olinda Road, Makawao, HI 96768

Phone: 808-268-9444

Email: dave@ecosoldesigns.com

Signature:  Date: 7/17/2025

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### For DLNR Managed Lands

Chairperson, Board of Land and Natural Resources

P.O. Box 621

Honolulu, Hawai'i 96809-0621

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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## **DESCRIPTION OF THE LOKO I'A SYSTEM**

Please discuss the current physical and environmental conditions of the loko i'a. Please also note if any endangered or threatened species are found in the pond.

The inland pond is currently dry and is sparsely vegetated with native plants and trees. The pond is within a herbaceous wetland/marsh area mapped by Maui County. Despite being located in a mapped wetland, the ground surface is dry and there is not water in the fish pond. We are in the process of restoring the fishpond to help improve the wetland area where the fishpond is currently located. No species will be threatened by this restoration. The project aims to improve the ecosystem by restoring the historical fishpond and improving the adjacent wetlands.

## **HISTORY OF THE LOKO I'A**

Our loko i'a dates back to 1450-1500 AD. The pond is about 500 years old. This Fishpond was built during the time of one of our most famous chiefs Pi'ilani and his children Lonoapi'ilani and Kihaapi'ilani. Many of the stories about waihe'e and fishponds in these areas are connected to these chiefs. During the late 1800s early 1900s the pond was abandoned. In 1919 the Waihe'e Dairy was built and used the loko i'a kalo and wetland area to run cattle and other animals for the dairy. During this time around 1920 the water that fed the fishpond was disconnected causing the wetlands to go dry. In 2021 HILT and Ka Pohoima Kaeo (KPK) started the restoration of the fishpond walls. Currently we have restored 2200 ft of wall using traditional hawaiian practices like uhaumu pohaku (hawaiian dry stack masonry). Currently this is the only Loko i'a kalo in the state that is being restored.

## **PROPOSED WORK PLAN**

Please provide a summary of the work that is being proposed under this permit. Please note any use of mechanized equipment.

The fishpond will be restored to 100% of its original structure. The pond walls will be reconstructed using the existing rocks on site. Construction of the rock walls will be done by hand using volunteers. Volunteers will be supervised by the Hawaii Land Trust staff. After reconstruction of the rock walls, mechanical equipment will be used to excavate a deeper section on the south end of the pond. Taro planting beds will be built in the shallower north end of the pond. Material removed from the fishpond will be used to fill and decommission the dewatering trench that was installed by the dairy farm that previously occupied the site. The decommissioning of the dewatering trench will improve the condition of the adjacent wetland and habitat.

See attached plans for fishpond layout, dimensions and sediment and erosion control plan.

## **PROPOSED OPERATIONS PLAN**

Please discuss what species you intend to raise in the pond, and your proposed methods of stocking, raising, and harvesting these species.

The proposed fishpond will be a Loko I'a Kalo (Type IV) fish pond. The freshwater fish pond will have approximately 22,000 square feet of planting plots on the north end of the pond and a deeper area on the south end of the pond for raising fish. The Kalo will be the main source of production and will be harvested for the local community. Native species of fish will be cultivated in the fishpond such as Aholehole, Anaa, and Moi. The fish will not be harvested. The goal of cultivating fish in the pond is to

increase yields for fishing around the nearby coastline.

### **CONSISTENCY WITH HO‘ALA LOKO I‘A PROGRAM**

Please discuss how this proposal is consistent with Conservation District Use Permit (CDUP) ST-3703 (available at [dlnr.hawaii.gov/occl/hoala-loko-ia/](http://dlnr.hawaii.gov/occl/hoala-loko-ia/)).

The Hawaiian Land Trust is requesting a Tier 3 permit for the restoration of the historical Kapoho fishpond. The original fishpond structure and walls will be restored to 100%. The restoration of the rock walls will utilize existing rock on site and new materials will not be imported on site for construction of the pond. A competent observer will complete daily field surveys of any endangered species that may be present in or adjacent to the project area.

### **BEST MANAGEMENT PRACTICES**

Please discuss the BMPs that will be followed to protect both the environment and the integrity of the pond (For manual work, BMPs are the traditional and environmental protocols that will be followed).

Best Management Practices during construction will utilize silt fence, fiber rolls and gravel check dams for sediment and erosion control during construction. The staging and stockpile area will be protected by fiber rolls during construction. The existing fishpond is currently dry and is not hydraulically connected to the ocean or any freshwater streams. A construction water quality monitoring plan will not be developed due to the existing pond condition being dry. Observations and documentation for the effectiveness of BMPs for stormwater and sediment runoff will be performed after any storm event.



## CERTIFICATION

I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application and all attachments and exhibits is complete and correct. I understand that the failure to provide any requested information or misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, or for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the Land Board.

I hereby authorize representatives of the Department of Land and Natural Resources to conduct site inspections on my property. Unless arranged otherwise, these site inspections shall take place between the hours of 8:00 a.m. and 4:30 p.m.



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*Signature of authorized agent(s) or if no agent, signature of applicant*

## AUTHORIZATION OF AGENT

I hereby authorize *Click or tap here to enter text.* to act as my representative and to bind me in all matters concerning this application.

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*Signature of applicant(s)*

# GRADING & GRUBBING APPLICATION FOR RESTORATION OF WAIHE'E FISH POND

TAX MAP: 3-2-010:001



www.ecosolhawaii.com  
Main Office: Maui, HI p. 808.268.9444

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stamp:

consultant:

client contact:

project address:  
WAIHE'E COASTAL DUNE AND WETLANDS REFUGE

project title:  
WAIHE'E FISH POND RESTORATION

content:  
TITLE SHEET

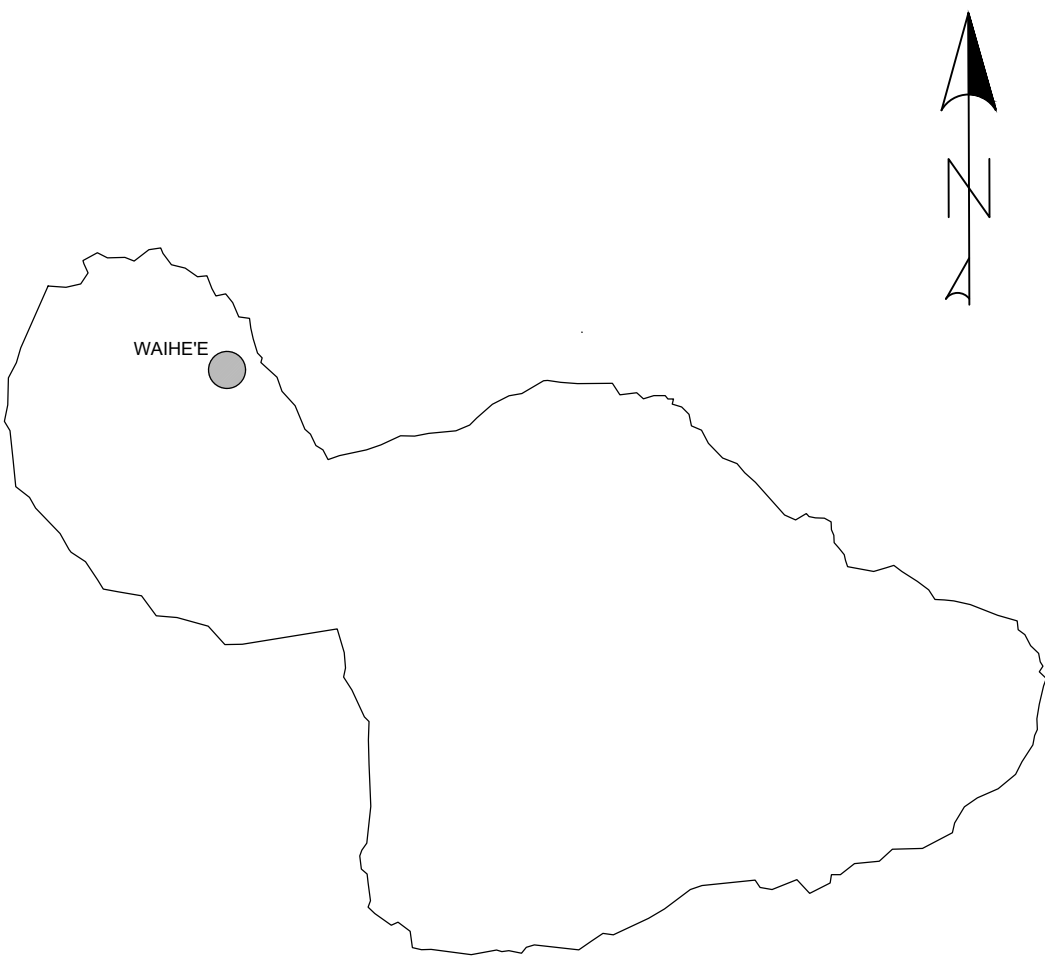

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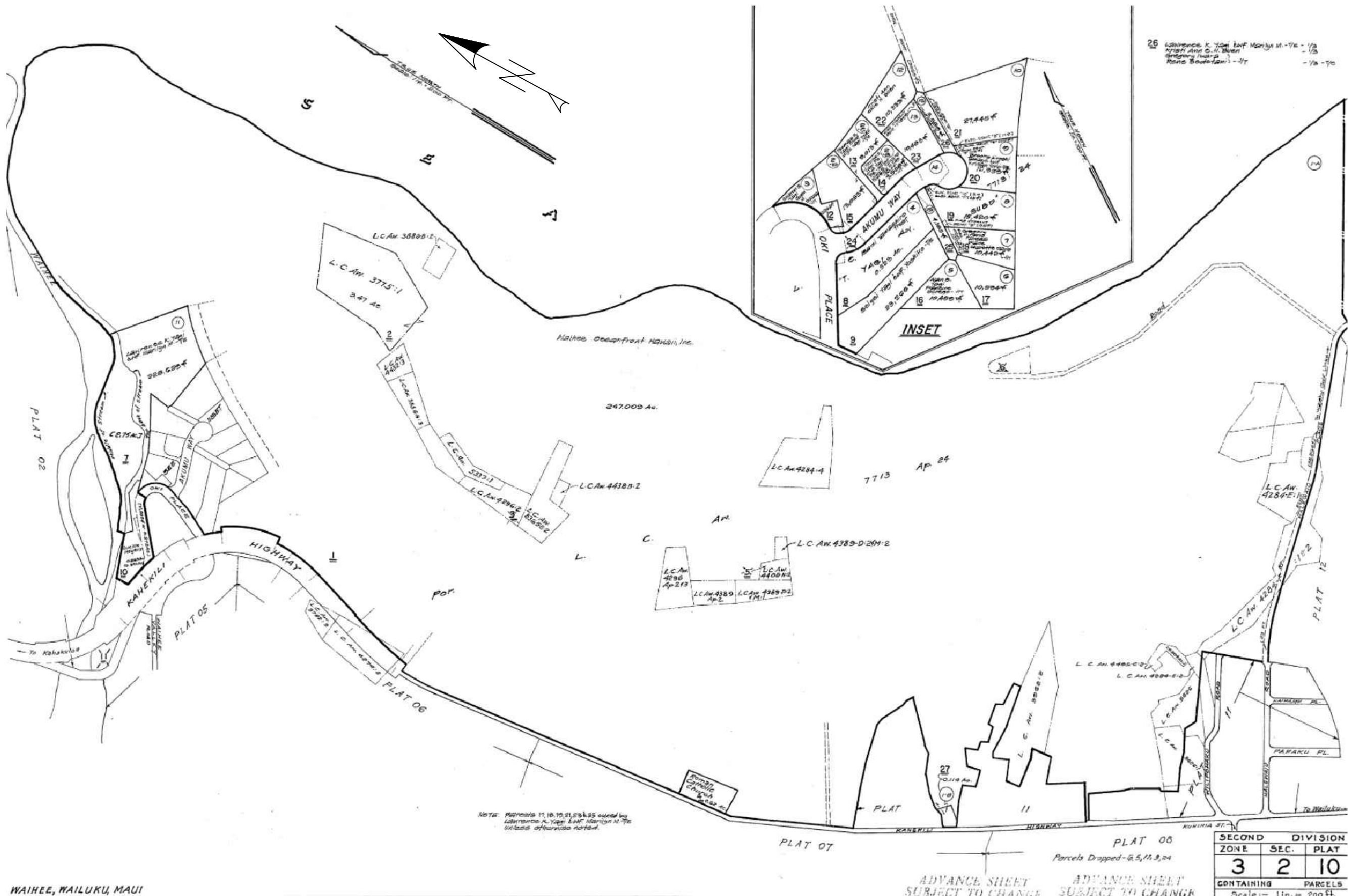
OWNER:  
  
HAWAII LAND TRUST  
HALEWAIU RD, WAILUKU  
HI 96793

PREPARED BY:  
  
ECOSOLUTIONS LLC  
117 OLLINDA ROAD  
MAKAWAO, HI 96768

SHEET INDEX	
ECO 1	PROJECT NOTES
ECO 2	EROSION CONTROL PLAN
ECO 3	PROPOSED SITE PLAN
ECO 4	POND SECTIONS
ECO 5	POND DETAILS



LOCATION MAP  
SCALE: 1" = 100,000'



PLAT MAP  
SCALE: 1" = 400'



GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST COUNTY OF MAUI STANDARDS.
- ANY EXISTING INFRASTRUCTURE OR SITE ITEMS (ABOVE OR BELOW GRADE, READILY VISIBLE OR NOT) OR PROPERTY DAMAGED AS A RESULT OF CONSTRUCTIONS SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE APPROPRIATE AGENCY.
- ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE STATE, COUNTY, AND LOCAL CODES. WHEN CODES ARE IN CONFLICT, THE MORE STRINGENT SHALL APPLY. THE CONTRACTOR SHALL CAUSE A CURRENT COPY OF SAID CODES TO BE MAINTAINED ON SITE AT ALL TIMES.
- ALL SIGNAGE AND PAINT MARKINGS SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), OR AS OTHERWISE SPECIFIED. INSTALLATION OF SIGNS SHALL BE GOVERNED BY LOCAL CODES.
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER AT LEAST THREE DAYS PRIOR TO ANY SITE WORK FOR PROPER IDENTIFICATION OF EXISTING UTILITIES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- THE EDGE OF THE ASPHALT PAVED ROADWAY SHALL BE PROTECTED BY A REINFORCED CONCRETE HEADER AT ALL LOCATIONS USED FOR TEMPORARY OR PERMANENT ACCESS TO THE LOT. THE ASPHALT EDGE PROTECTION SHALL BE INSTALLED PRIOR TO CONSTRUCTION OR ANY SIGNIFICANT TRAFFIC FROM THE ROADWAY TO THE LOT.
- ALL EXISTING DOMESTIC AND IRRIGATION WATERLINES SHALL BE PROTECTED THROUGHOUT THE COURSE OF CONSTRUCTION.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AND THE NPDES PERMIT FOR THE PROJECT.
- ALL GRADING NAD 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.
- FOR ALL PROJECTS, WHICH WILL DISTURB ONE ACRE OR MORE OF LAND, THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL A NOTICE OF GENERAL PERMIT COVERAGE IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII, AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM.
- SOIL STABILIZATION WITH HYDRO MULCHING AND/OR APPROPRIATE VEGETATIVE COVER SHALL BE APPLIED IMMEDIATELY TO AREAS WHERE GRADING AND/OR CONSTRUCTION HAVE BEEN COMPLETED.

EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS REULSTING FROM HIS WORK THAT HAVE BEEN DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
- THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BY THE CONTRACTOR BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AND THE NPDES PERMIT FOR THE PROJECT.
- 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 CONTROL PROCEDURES SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER PRIOR TO THE START OF ACTUAL GRADING OPERATIONS.
- EXCAVATED MATERIAL ON SITE WHICH WILL BE EXPOSED FOR MORE THAN 7 DAYS SHALL BE COVERED WITH PLASTIC SHEETS WITHIN 2 DAYS OR AS DIRECTED BY THE CONSTRUCTION ENGINEER.
- EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS ITEMS OF WORK.

MINIMUM BEST MANAGEMENT PRACTICES

DRAINAGE: HANDLE DRAINAGE TO CONTROL EROSION, PREVENT DAMAGE TO DOWNSTREAM PROPERTIES AND RETURN WATERS TO THE NATURAL DRAINAGE COURSE IN A MANNER WHICH MINIMIZES SEDIMENTATION OR OTHER POLLUTION TO THE MAXIMUM EXTENT PRACTICABLE.

DUST CONTROL: CONTROL DUST EMISSIONS TO THE MAXIMUM EXTENT PRACTICABLE THROUGH BMP'S SUCH AS WATER SPRINKLING, DUST FENCES, LIMITING AREA OF DISTURBANCE AND TIMELY GRASSING OF FINISHED AREAS.

VEGETATION: RETAIN NATURAL VEGETATION, ESPECIALLY GRASSES, WHEREVER FEASIBLE. AVOID STORAGE OR GRUBBED MATERIAL NEAR WATERCOURSES.

SEDIMENT CONTROL: CAPTURE SEDIMENT TRANSPORTED IN RUNOFF TO MINIMIZE THE SEDIMENT FROM LEAVING THE SITE WITH METHODS SUCH AS SEDIMENT BASINS, SEDIMENT TRAPS, SILT FENCES, SAND BAGS, AND VEGETATED FILTER STRIPS.  
MATERIAL AND WASTE MANAGEMENT: PROPERLY STORE TOXIC MATERIAL AND PREVENT THE DISCHARGE OF POLLUTANTS ASSOCIATED WITH CONSTRUCTED MATERIALS.

TIMING OF CONTROL MEASURES IMPLEMENTATION: TIMING OF CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN. DISTURBED AREAS OF CONSTRUCTION SITES THAT WILL NOT BE DISTURBED FOR TWENTY-ONE DAYS OR MORE WILL BE STABILIZED (GRASSSED OR GRAVELED) BY NO LATER THAN FOURTEENTH DAY AFTER THE LAST DISTURBANCE.

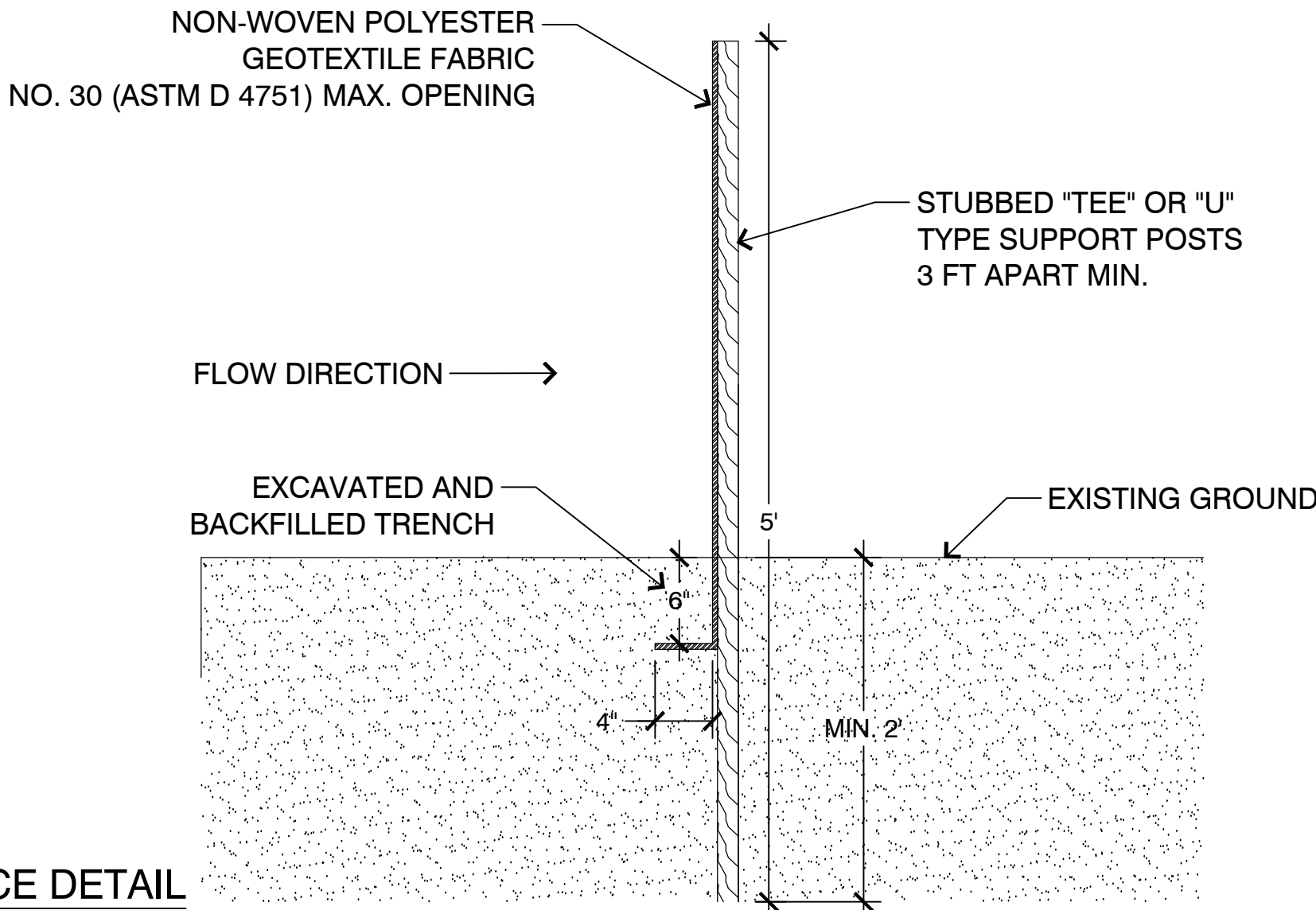
DUST CONTROL

THE CONTRACTOR AT HIS OWN EXPENSE SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL CONFORM WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH AND THE COUNTY GRADING ORDINANCE.

THE CONTRACTOR SHALL PROVIDE DUST CONTROL WITH SPRINKLERS AND/OR WATER WAGONS AS NECESSARY, WEEKENDS AND HOLIDAYS INCLUDED. ALL GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY.

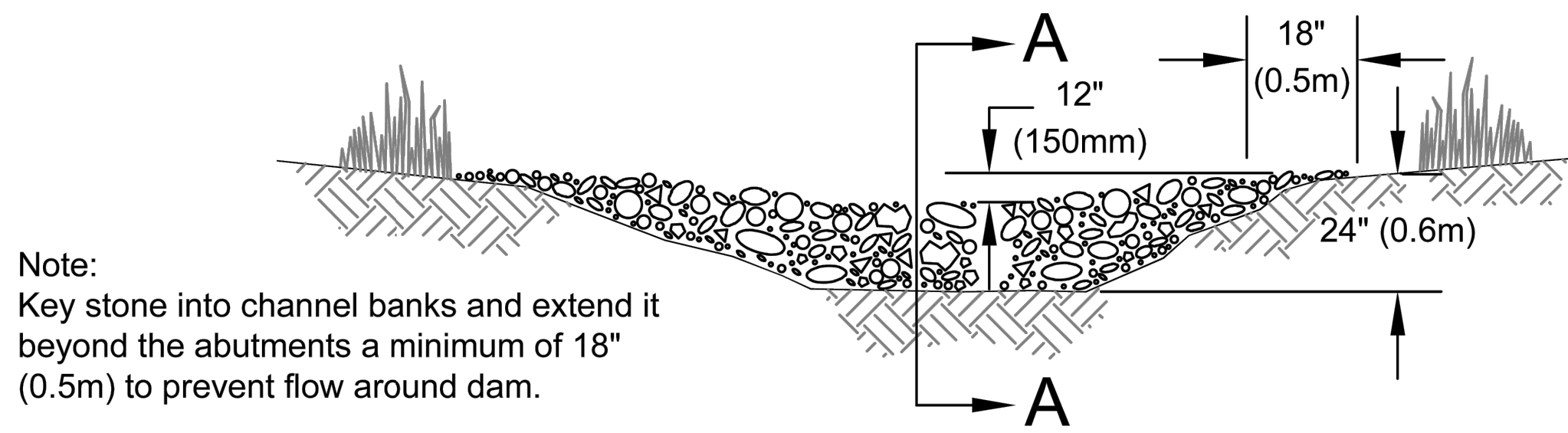
ENVIRONMENTAL PROTECTION

- THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES ROADWAY AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE CHIEF ENVIRONMENTALIST SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL KEEP THE PROJECT AREA AND SURROUNDING AREAS FREE FROM DUST NUISANCE, AND IN ACCORDANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS OF THE PUBLIC HEALTH AND THE COUNTY'S GRADING ORDINANCE.
- ALL CUT AND FILL SLOPES SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER GRADING WORK HAS BEEN COMPLETED.
- CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT APPROPRIATE SITES. THE CONTRACTOR SHALL INFORM THE ENGINEER OF THE LOCATION OF DISPOSAL SITES. THE DISPOSAL SITE SHALL ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- THE CONTRACTOR SHALL NOT DEMOLISH OR CLEAR ANY STRUCTURE, SITE OR VACANT LOT WITHOUT FIRST ASCERTAINING THE PRESENCE OF ABSENCE OF RODENTS WHICH MAY ENDANGER THE PUBLIC HEALTH BY DISPERSAL FROM SUCH PREMISES. SHOULD SUCH INSPECTION REVEAL THE PRESENCE OF SUCH RODENTS, THE CONTRACTOR SHALL ERADICATE SUCH RODENTS BEFORE DEMOLISHING OR CLEARING SAID STRUCTURE, SITE OR VACANT LOT.



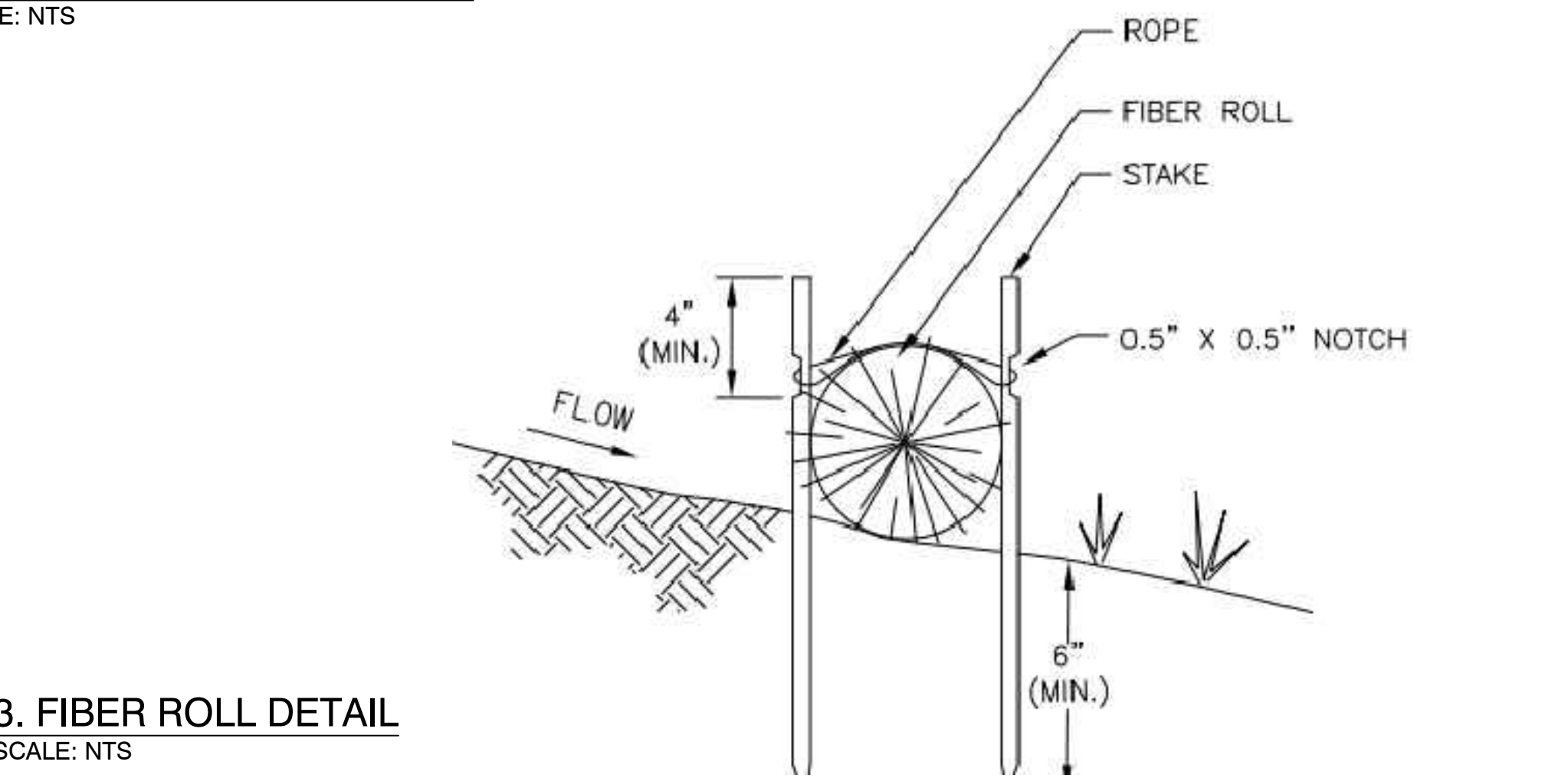
1. SILT FENCE DETAIL

SCALE: NTS



2. ROCK CHECK DAM DETAIL

SCALE: NTS



3. FIBER ROLL DETAIL

SCALE: NTS

stamp:

consultant:

client contact:

project address:

WAIHE'E COASTAL  
DUNE AND WETLANDS  
REFUGE

project title:

WAIHE'E FISH POND  
RESTORATION

content:

PROJECT NOTES AND BMPS


revision: date:

drawn by: checked by:  
AZ DHW

date:  
JUNE 24, 2025

scale:  
AS SHOWN

sheet no.:  
1 OF 5

project no.:  
24-013

drawing no.:

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DESIGN LEGEND

- PROPERTY BOUNDARY
- SILT FENCE
- FIBER ROLL

PROPERTY BOUNDARY

POND FILL PIPE

EXISTING CHANNEL

COAST LINE

PACIFIC OCEAN

SILT FENCE

FIBER ROLL

STOCKPILE/STAGING AREA

EXISTING ROAD

EXISTING DIRT TRAIL

PROJECT LIMITS

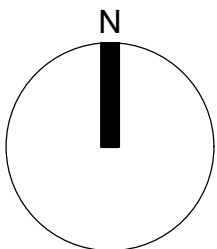
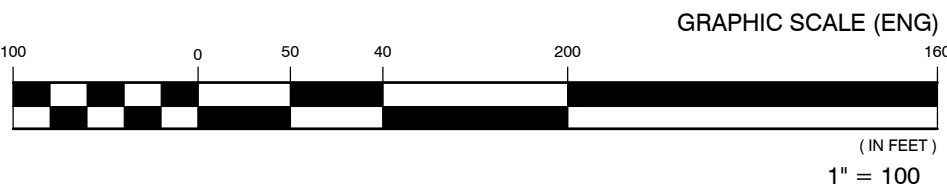
SILT FENCE

MULTIPLE ROCK CHECK DAMS

EXISTING CHANNEL  
POND OUTLET TO OCEAN

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 100'



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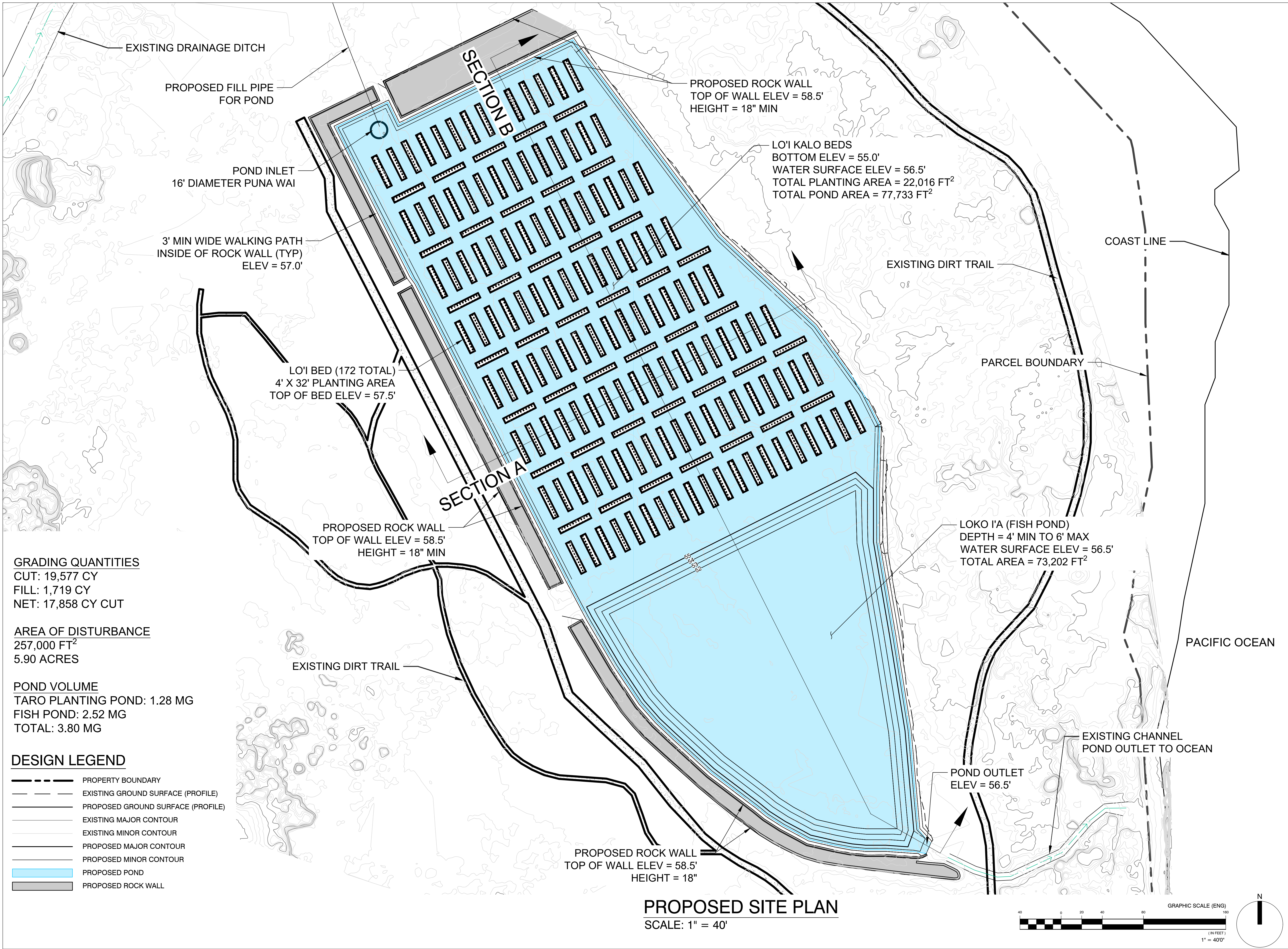
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EROSION AND SEDIMENT  
CONTROL PLAN

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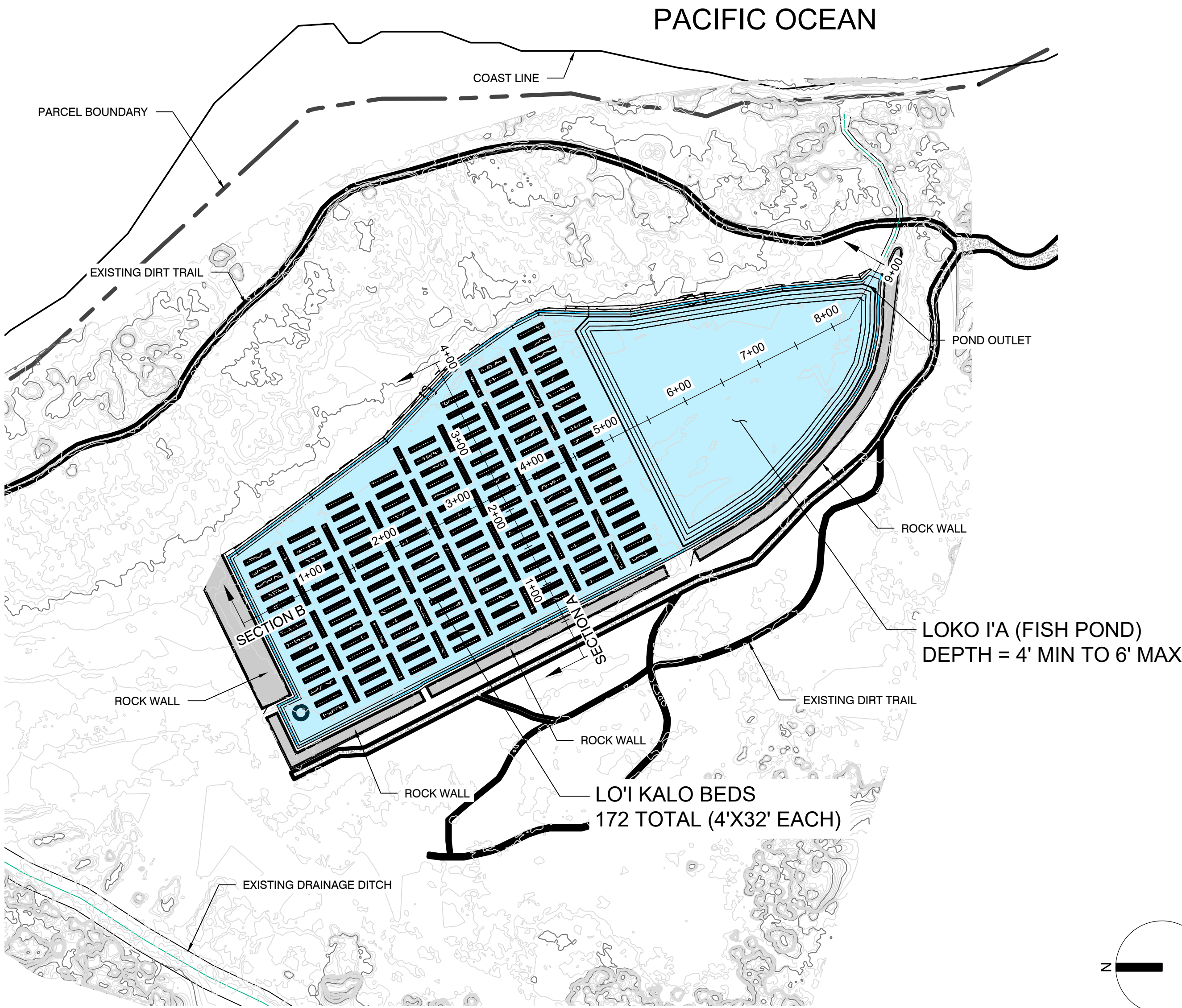




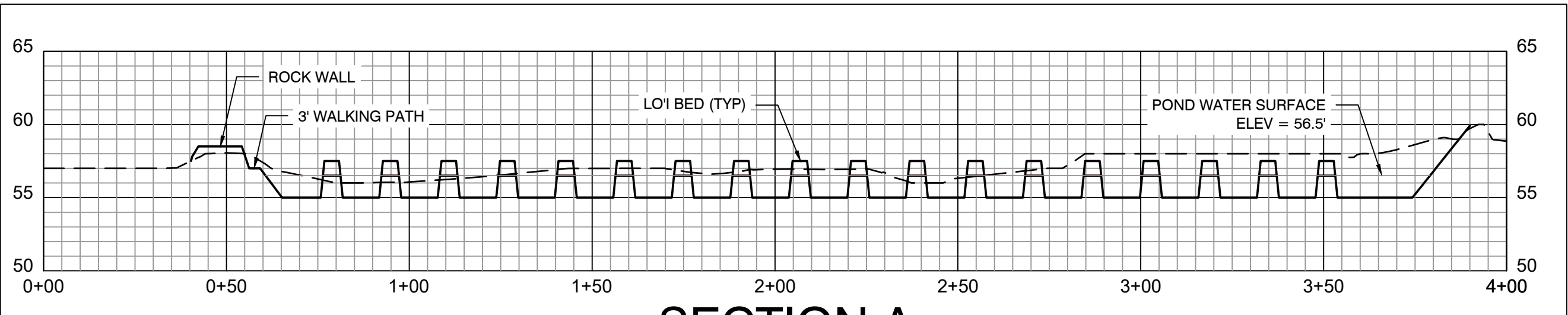
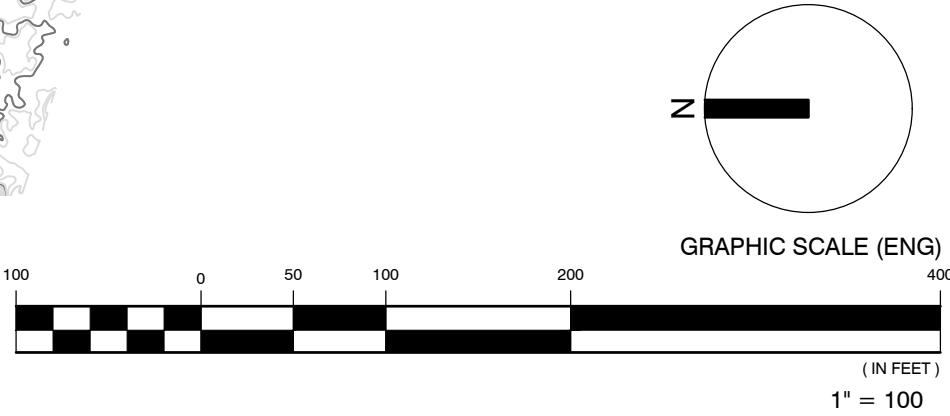


DESIGN LEGEND

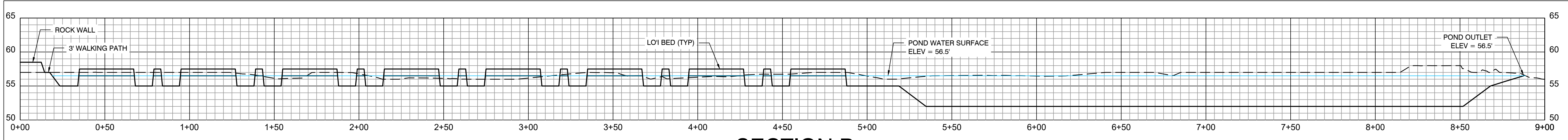
- PROPERTY BOUNDARY
- EXISTING GROUND SURFACE (PROFILE)
- PROPOSED GROUND SURFACE (PROFILE)
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED POND
- PROPOSED ROCK WALL



FISH POND SITE PLAN  
SCALE: 1" = 100'



SECTION A  
HORIZONTAL 1" = 30'  
VERTICAL 1" = 7.5'



SECTION B  
HORIZONTAL 1" = 30'  
VERTICAL 1" = 7.5'

  
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**WAIHE'E COASTAL  
DUNE AND WETLANDS  
REFUGE**

project title:  
**WAIHE'E FISH POND  
RESTORATION**

content:  
**POND SECTIONS**


revision: date:  
drawn by: checked by:  
**AZ DHW**  
date:  
**JUNE 24, 2025**  
scale:  
**AS SHOWN**  
sheet no.:  
**4 OF 5**  
project no.:  
**24-013**  
drawing no.:

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4**



stamp:

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RESTORATION

content:

DETAILS

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date:

drawn by:

AZ

checked by:

DHW

date:

JUNE 24, 2025

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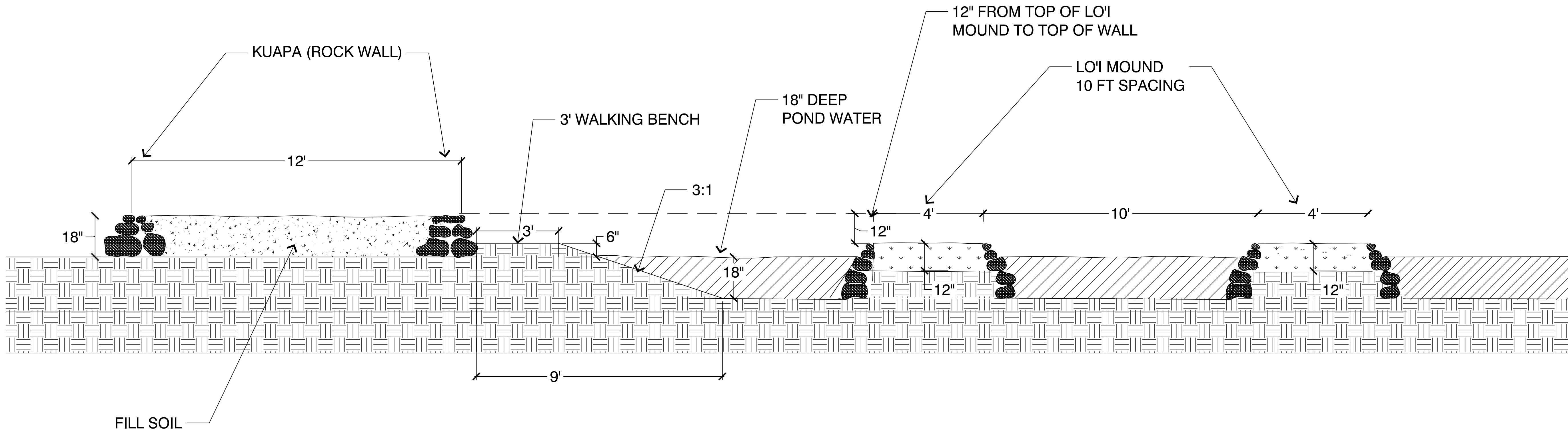
5 OF 5

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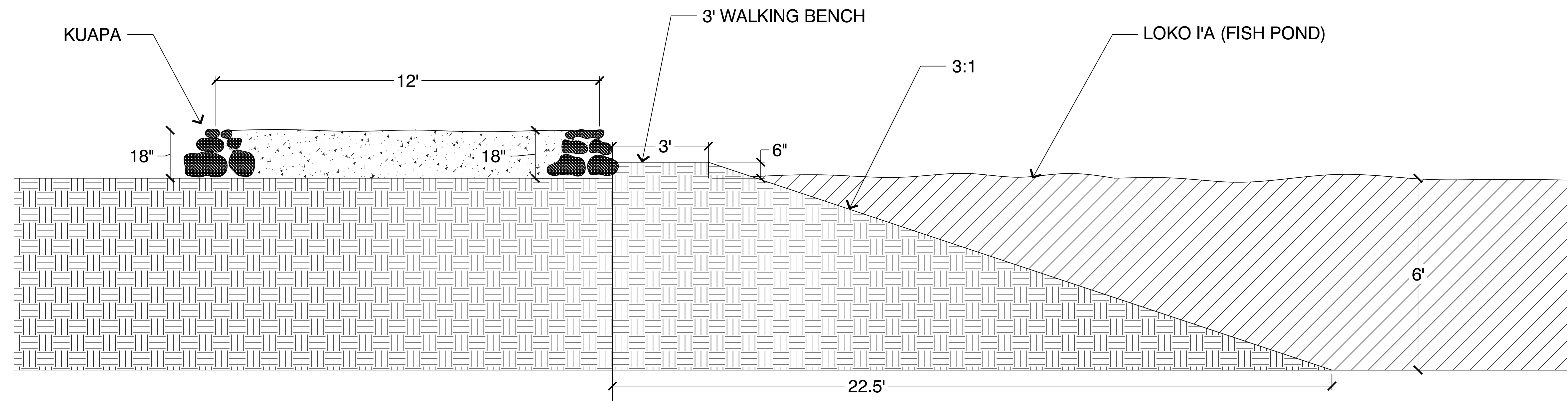
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LO'I  
SCALE: NTS



KAPOHO LOKO I'A  
SCALE: NTS



