

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Boating and Ocean Recreation
Honolulu, Hawaii 96819

April 23, 2021

Chairperson and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Land Board Members:

SUBJECT: Lahaina Small Boat Harbor Modification of Navigational Aids
Lahaina, Maui, Hawaii:

Declare Construction Project Exempt from the Preparation of an
Environmental Assessment

and

Delegate Authority to Chairperson to Approve, Procure and Award
Construction Contracts

REQUEST:

The Division of Boating and Ocean Recreation (“DOBOR”) is proposing to modify the existing range light structures for the Lahaina Small Boat Harbor, Lahaina, Maui, Hawaii. The proposed project requires raising the elevation of the front and rear range lights that will become partially obstructed by the trellis shade structure to be constructed on the new Lahaina Small Boat Harbor Ferry Pier. New concrete footings and range light poles will be installed in the same location of the existing range lights. The existing range lights and day boards will be reused and installed on the new range light poles. Construction plans for the proposed project is attached as Exhibit A.

DOBOR is requesting that the Board of Land and Natural Resources (“Board”) declare the project exempt from the requirements of Chapter 343, Hawaii Revised Statutes, and Title 11, Chapter 200.1, Hawaii Administrative Rules.

DOBOR also requests the Board to authorize the Chairperson to procure, award, and enter into construction contracts and supplemental agreements for construction contracts, and to enter into and execute any other documents or agreements, including, but not limited to, rights of entry or other permit applications, related to implementation of the project, if necessary and appropriate.

DISCUSSION:

Funding for this project is authorized under Act 9, Session Laws of Hawaii 2020, Item H-8 and other appropriations approved by the legislature for which funds have not lapsed.

ITEM J-2

All necessary permits and approvals have been obtained for the project including a permit from the U.S. Army Corps of Engineers as well as approval from the U.S. Coast Guard for the proposed work.

The implementation of this project will comply with Budget Execution Policies issued by the Governor through the Department of Budget and Finance.

All procurements will be made in accordance with State Procurement Code, Hawaii Revised Statutes (HRS) Chapter 103D.

HRS CHAPTER 343 - ENVIRONMENTAL ASSESSMENT:

The project will comply with applicable provisions of HRS Chapter 343, and Title 11, Chapter 200.1, Hawaii Administrative Rules (HAR), regarding environmental assessments and impact statements. DOBOR is proposing that the project be declared exempt from the applicable provisions of HRS Chapter 343 and HAR Chapter 200.1 under the Exemption List for the Department of Land and Natural Resources, concurred on by the Environmental Council on November 10, 2020 as follows:

General Exemption Type 3, Part 1, Item 14:

"Construction or placement of utilities (telecommunications, electrical, solar panels, drainage, waterlines, sewers) and related equipment (such as transformers, poles, cables, wires, pipes) accessory to existing facilities."

DOBOR requests that the Board declare the project exempt from the preparation of an EA under the above exemption.

RECOMMENDATION:

1. That the Board declare the project exempt from the preparation of an Environmental Assessment.
2. That the Board delegate authority to the Chairperson to procure, award, and enter into construction contracts and, if necessary, supplemental agreements, in accordance with HRS Chapter 103D and to enter into and execute any other documents or agreements necessary to implement the project, subject to available funding, release of funds by the Governor, and review and approval as to form by the Department of the Attorney General.

Respectfully Submitted,


EDWARD R. UNDERWOOD, Administrator
Division of Boating & Ocean Recreation

APPROVED FOR SUBMITTAL:

A handwritten signature in cursive script, reading "Suzanne D. Case".

SUZANNE D. CASE, Chairperson
Board of Land and Natural Resources

Attachment:

- A. Construction Plans: Lahaina Small Boat Harbor Modification of Navigational Aids

EXHIBIT A

LAHAINA SMALL BOAT HARBOR MODIFICATION OF NAVIGATIONAL AIDS

LAHAINA, MAUI, HAWAII

TAX MAP KEY: 4-6-01:02 & 07

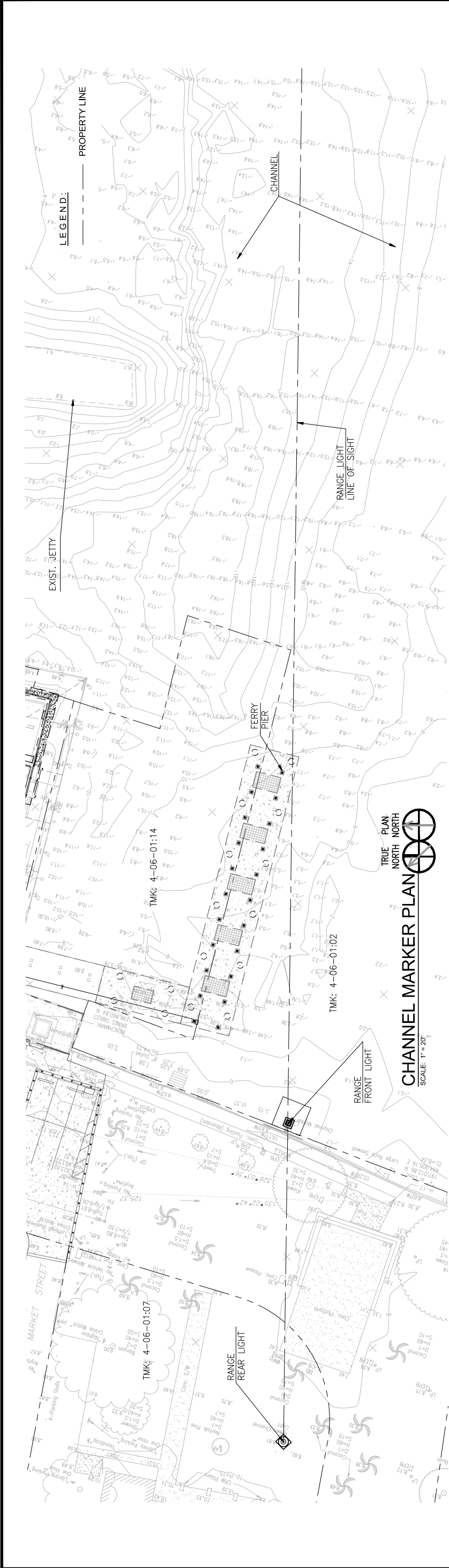
JOB NO. MA20-06

STATE OF HAWAII

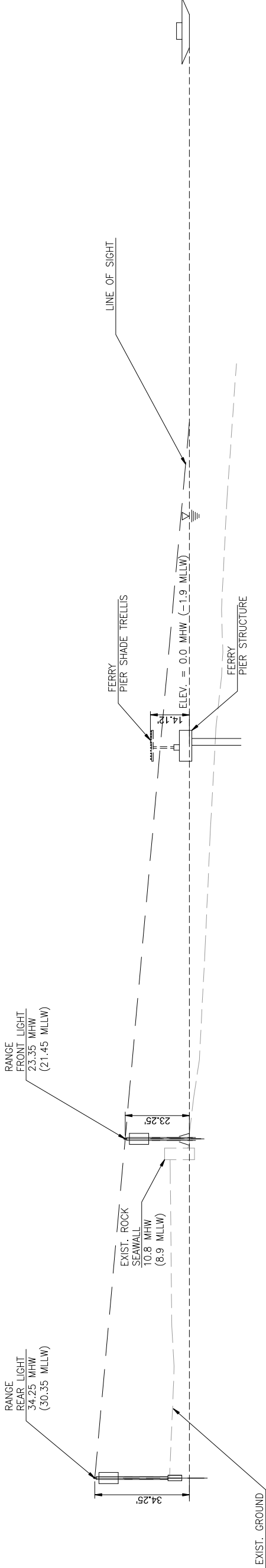
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF BOATING AND OCEAN RECREATION

[illegible]

GENERAL NOTES		GENERAL NOTES (CONT.)		DEMOLITION NOTES	
1.	ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF THE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" DATED 2005, AND THE 1984 "STANDARD DETAILS" FOR PUBLIC WORKS CONSTRUCTION OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI, AS AMENDED.	16.	THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONED AND OTHER PROTECTIVE MEASURES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL ENSURE TEMPORARY SAFE PEDESTRIAN PASSAGEWAYS AROUND THE CONSTRUCTION SITE AS PER (ADAAG) 206.1 & 402.1.	1.	BEFORE COMMENCING DEMOLITION WORK, VERIFY WITH THE ENGINEER AND HARBORMASTER THE ITEMS TO BE REMOVED AND SALVAGED.
2.	ALL WORK SHALL BE INCLUDED IN THE BASE BID UNLESS OTHERWISE INDICATED. WORK CALLED FOR ON THE PLANS AND NOT ITEMIZED IN THE PROPOSAL, AND ALL WORK NOT CALLED FOR BUT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.	17.	THE CONTRACTOR SHALL RESTORE TO ORIGINAL OR BETTER CONDITION, ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL. DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL AND INCLUDED WITHIN THE AMOUNT PAID FOR INSTALLATION OF NEW ITEMS.	2.	USE ALL MEANS NECESSARY TO PROTECT ADJACENT STRUCTURES AND ITEMS TO REMAIN IN THE EVENT ANY DAMAGE TO EXISTING ITEMS TO REMAIN IMMEDIATELY NOTIFY THE ENGINEER. REPAIRS OR REPLACEMENT SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
3.	THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, AND SHALL BE RESPONSIBLE FOR THE REPAIR, RELOCATION OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO HIS CONSTRUCTION PRACTICES, OR INTERFERENCES WITH CONSTRUCTION WORK. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE RESPECTIVE UTILITY COMPANIES AND THE STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION (DLNR-DOBOR).	18.	THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM GOVERNMENT AGENCIES.	3.	EXTENT OF REMOVAL AS INDICATED IS APPROXIMATE. CONTRACTOR SHALL VERIFY THE EXTENT OF REMOVAL AND WORK AND MAKE ADJUSTMENTS TO PROPERLY ACCOMMODATE HIS METHOD OF CONSTRUCTING NEW WORK. ADDITIONAL REMOVAL, PATCHING, AND RESTORATION CONSIDERED INCIDENTAL TO THE NEW WORK.
4.	THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.	19.	ALL EXISTING UTILITIES TO REMAIN IN USE, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION UNLESS SPECIFIED ON THE PLANS TO BE ABANDONED. ANY DAMAGES TO EXISTING UTILITIES SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.	4.	CONTRACTOR SHALL TURN IN SALVAGED ITEMS AS SHOWN IN PLANS AND SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. ALL OTHER DEBRIS, RUBBISH, ETC. RESULTING FROM DEMOLITION WORK SHALL BE PROMPTLY REMOVED FROM THE JOB SITE AND PROPERLY DISPOSED.
5.	FIELD ADJUSTMENTS SHALL BE MADE AS APPROVED BY THE ENGINEER.	20.	CONTRACTOR SHALL MAKE ARRANGEMENTS FOR TEMPORARY UTILITIES SUCH AS ELECTRICITY, WATER, ETC. REQUIRED FOR HIS OPERATIONS. ALL COSTS FOR TEMPORARY UTILITIES SHALL BE BORNE BY THE CONTRACTOR.	5.	REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6.	CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF OTHER CONTRACTORS WHO MAY BE EMPLOYED ON ADJACENT OR RELATED STATE PROJECTS AND AVOID UNNECESSARY DELAY OR HINDERANCE IN THE PERFORMANCE OF THEIR RESPECTIVE CONTRACTS.	21.	DIMENSIONS SHALL BE TAKE PRECEDENCE OVER SCALE. IF DIMENSIONAL ERRORS OR CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL WAIT FOR CLARIFICATION BEFORE RESUMING OR COMMENCING WORK ON THE DISCREPANCY ITEM.	ARCHAEOLOGICAL MONITORING NOTES	
7.	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 DRAINAGE SYSTEMS OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY TAKE ALL REMEDIAL ACTIONS NECESSARY.	22.	ALL CONSTRUCTION GRADING STAKEOUT SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR HIRED AND PAID FOR BY THE CONTRACTOR.	1.	THE PROJECT IS LOCATED IN THE LAHAINA HISTORIC DISTRICT WHICH IS LISTED AS A NATIONAL HISTORIC LANDMARK AND ON THE NATIONAL AND STATE REGISTER OF HISTORIC PLACES.
8.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 64, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 58, "WATER POLLUTION CONTROL," AS WELL AS CHAPTER 14 OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.	23.	THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY, AND ENVIRONMENTAL QUALITY.	2.	AN ARCHAEOLOGIST, HIRED BY THE CONTRACTOR SHALL BE PRESENT ON SITE DURING SUBSURFACE EXCAVATIONS GREATER THAN 12 INCHES.
9.	THE CONTRACTOR SHALL BE RESPONSIBLE TO PLAN AND CONSTRUCT BEST MANAGEMENT PRACTICES (BMP) AS REQUIRED BY HIS OPERATIONS TO COMPLY WITH THE LAWS, STANDARDS, RULES, AND/OR POLICIES OF THE COUNTY, STATE OR FEDERAL REGULATORY AGENCIES. PRIOR TO ACCEPTANCE OF THE PROJECT BY THE STATE, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL BEST MANAGEMENT PRACTICES AND RESTORE THE PROJECT SITE TO ITS ORIGINAL CONDITION OR BETTER.	24.	DUE TO LIMITED SPACE AT THE JOB SITE THE STATE RECOGNIZES THE NEED FOR A CONSTRUCTION STAGING AREA FOR TEMPORARY STORAGE OF CONTRACTOR'S EQUIPMENT AND MATERIALS. CONTRACTOR SHALL COORDINATE WITH THE HARBORMASTER FOR USE OF STAGING AREA(S) AT LEAST 30 DAYS PRIOR TO ANTICIPATED OCCUPANCY. THE STATE IS NOT OBLIGATED TO PROVIDE THESE SPECIFIC STAGING AREAS AS SPACE AVAILABILITY AT THE HARBOR CHANGES FROM TIME TO TIME. THE CONTRACTOR IS ENCOURAGED TO SUBMIT HIS/HER REQUEST FOR STAGING AREA(S) WELL IN ADVANCE. CONDITIONS OF USE OF THE STAGING AREA SHALL BE AS REQUIRED BY THE HARBORMASTER.	3.	THE ARCHAEOLOGIST HAS THE AUTHORITY TO STOP WORK IF CULTURAL REMAINS SUCH AS ARTIFACTS, BURIALS, OR DEPOSITS OF SHELLS OR CHARCOAL ARE ENCOUNTERED DURING THE EXCAVATION WORK. IF CULTURAL REMAINS ARE FOUND, THEN THE ARCHAEOLOGIST WILL IMMEDIATELY NOTIFY THE DEPARTMENT OF LAND AND NATURAL RESOURCES. HISTORIC PRESERVATION DIVISION MAUI OFFICE (SHPD) AT 808-243-5189. THE ARCHAEOLOGIST IN CONSULTATION WITH SHPD WILL DETERMINE IF TEST UNITS WILL BE REQUIRED ADJACENT TO THE EDGE OF THE TRENCH AND/OR EXCAVATION.
10.	THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH THE ADMINISTRATIVE RULES IN THE STATE OF HAWAII DEPARTMENT OF HEALTH REGARDING NOISE CONTROL.	25.	TOPOGRAPHIC SURVEY PERFORMED BY M&E PACIFIC INC., DATED NOVEMBER 11, 2003. REVISED APRIL '18, 2005.	PUBLIC HEALTH SAFETY AND CONVENIENCE NOTES	
11.	ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.	1.	THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.	1.	THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
12.	PURSUANT TO CHAPTER 6E OF THE HAWAII REVISED STATUTES (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 (PH. 808-692-8015).	2.	THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE COUNTY MAY REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.	2.	THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE COUNTY MAY REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.
13.	IN PERFORMING ALL WORK, THE CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION NECESSARY TO AVOID ANY DAMAGE INFLICTED TO AND IMPAIRMENT IN THE USE OF ANY EXISTING UTILITY LINE. ANY DAMAGE INFLICTED ON EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR RESTORED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.	3.	NO CONTRACTOR SHALL PERFORM ANY TRENCHING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATER COURSES. SHOULD SUCH VIOLATIONS OCCUR, THE COSTS INCURRED FOR ANY REMEDIAL ACTION BY THE ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.	3.	NO CONTRACTOR SHALL PERFORM ANY TRENCHING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATER COURSES. SHOULD SUCH VIOLATIONS OCCUR, THE COSTS INCURRED FOR ANY REMEDIAL ACTION BY THE ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
14.	THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE STATE AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE STATE OR ENGINEER.	4.	THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.	4.	THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
15.	THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM RUBBISH, DUST, NOISE, EROSION, ETC. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR AND WATER POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.	5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF CHLORINATED WATER AND WATER USED FOR HYDROSTATIC TESTING TO SAFE GUARD PUBLIC HEALTH AND ENVIRONMENT IN ACCORDANCE WITH APPLICABLE DEPARTMENT OF HEALTH REQUIREMENTS.	5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF CHLORINATED WATER AND WATER USED FOR HYDROSTATIC TESTING TO SAFE GUARD PUBLIC HEALTH AND ENVIRONMENT IN ACCORDANCE WITH APPLICABLE DEPARTMENT OF HEALTH REQUIREMENTS.
6.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINALIZING AND OBTAINING THE HYDROTESTING PERMIT WITH THE STATE DEPARTMENT OF HEALTH. THE CONTRACTOR SHALL PROVIDE DETAILED AND SPECIFIC INFORMATION FOR THE DECHLORINATION AND TREATMENT PLANS.	1.	THE PROJECT IS LOCATED IN THE LAHAINA HISTORIC DISTRICT WHICH IS LISTED AS A NATIONAL HISTORIC LANDMARK AND ON THE NATIONAL AND STATE REGISTER OF HISTORIC PLACES.	1.	THE PROJECT IS LOCATED IN THE LAHAINA HISTORIC DISTRICT WHICH IS LISTED AS A NATIONAL HISTORIC LANDMARK AND ON THE NATIONAL AND STATE REGISTER OF HISTORIC PLACES.
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5.	IN EITHER CASE, FURTHER WORK IN THE VICINITY OF THE CULTURAL REMAINS MAY PROCEED ONLY UPON APPROVAL OF THE STATE. SUCH APPROVAL CAN BE NORMALLY EXPECTED IN ONE WEEK AND SHALL IN NO CASE REQUIRE MORE THAN ONE MONTH.	5.	IN EITHER CASE, FURTHER WORK IN THE VICINITY OF THE CULTURAL REMAINS MAY PROCEED ONLY UPON APPROVAL OF THE STATE. SUCH APPROVAL CAN BE NORMALLY EXPECTED IN ONE WEEK AND SHALL IN NO CASE REQUIRE MORE THAN ONE MONTH.	5.	IN EITHER CASE, FURTHER WORK IN THE VICINITY OF THE CULTURAL REMAINS MAY PROCEED ONLY UPON APPROVAL OF THE STATE. SUCH APPROVAL CAN BE NORMALLY EXPECTED IN ONE WEEK AND SHALL IN NO CASE REQUIRE MORE THAN ONE MONTH.
LAT		LAT		LAT	
LC		LC		LC	
LF		LF		LF	
LN		LN		LN	
LB(S)		LB(S)		LB(S)	
MAX		MAX		MAX	
MECH		MECH		MECH	
MH		MH		MH	
MISC		MISC		MISC	
MIN		MIN		MIN	
MON		MON		MON	
MSL		MSL		MSL	
FT		FT		FT	
FH		FH		FH	
FFE		FFE		FFE	
FG		FG		FG	
GALV		GALV		GALV	
GV		GV		GV	
HORIZ		HORIZ		HORIZ	
INV		INV		INV	
ISA		ISA		ISA	
LATERAL		LATERAL		LATERAL	
LENGTH OF CURVE		LENGTH OF CURVE		LENGTH OF CURVE	
LINEAR FOOT		LINEAR FOOT		LINEAR FOOT	
LINEAR		LINEAR		LINEAR	
POUND(S)		POUND(S)		POUND(S)	
MAXIMUM		MAXIMUM		MAXIMUM	
MECHANICAL		MECHANICAL		MECHANICAL	
MANHOLE		MANHOLE		MANHOLE	
MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS	
MINIMUM		MINIMUM		MINIMUM	
MONUMENT		MONUMENT		MONUMENT	
MEAN SEA LEVEL		MEAN SEA LEVEL		MEAN SEA LEVEL	
AC		AC		AC	
ADAAG		ADAAG		ADAAG	
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APPROX		APPROX		APPROX	
ASTM		ASTM		ASTM	
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B. BOT		B. BOT		B. BOT	
BB		BB		BB	
BLDG		BLDG		BLDG	
BOF		BOF		BOF	
BOS		BOS		BOS	
BW		BW		BW	
BWS		BWS		BWS	
BC		BC		BC	
CB		CB		CB	
CFS		CFS		CFS	
CO		CO		CO	
CONN		CONN		CONN	
CNC		CNC		CNC	
CONT		CONT		CONT	
COTG		COTG		COTG	
CRM		CRM		CRM	
CY		CY		CY	
					</



CHANNEL MARKER PLAN
SCALE: 1" = 20'



CHANNEL MARKER PROFILE
SCALE: 1" = 20'

REVISION NO.	SYN.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
LAHANA SMALL BOAT HARBOR MODIFICATION OF NAVIGATIONAL AIDS LAHANA, MAUI, HAWAII					
CHANNEL MARKER PLAN & PROFILE					
DESIGNED:	CH	SUBMITTED:			
DRAWN:	CADD	DATE:	JULY 2019		
CHECKED:	CB	SCALE:	AS NOTED		
APPROVED:		DRAWING NO.	C03		
CHIEF ENGINEER		DATE			

CHAD M. McDONALD

LICENSED PROFESSIONAL ENGINEER

No. 9795-C

HAWAII

This work was prepared by me or under my supervision

Chad M. McDonald

4/30/2020

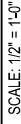
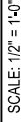
MTS/JMGA & ASSOCIATES INC.

EXP. DATE

NOTE: Contractor to check and verify dimensions of job before proceeding with work.

JOB NO. MA18-05

SHEET NO. 4 OF 9 SHEETS



4 EA #6 X 1
DRILL 4" INTO EXIST. CONC.
SET W/ EPOXY ADHESIVE

SHEET NO. 6 OF 9 SHEETS

EROSION CONTROL NOTES

TEMPORARY EORION CONTROL NOTES:

1. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF LAND TO BE EXPOSED AT ANY TIME.
 2. EXPOSED AREAS THAT ARE NOT AT FINAL GRADE AND ARE EXPECTED TO BE EXPOSED FOR MORE THAN 30 DAYS SHALL BE PLACED WITH A VEGETATIVE COVER OR BE MULCHED (AT A RATE OF 45 CUBIC FEET PER 1,000 SQUARE FEET) IN ORDER TO PREVENT EROSION AND SILT RUNOFF.
 3. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN PLACE AND ESTABLISHED.
- PERMANENT EROSION CONTROL MEASURES:
1. ALL SLOPES AND EXPOSED AREAS SHALL BE PAVED, SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED.
 2. 2:1 SLOPES SHALL BE TREATED WITH GEOFABRIC OR TREATED WITH SOIL CONDITIONER TO AID IN THE ESTABLISHMENT OF TURF/ PLANTING.

BMP NOTES:

TEMPORARY EROSION CONTROL MEASURES:

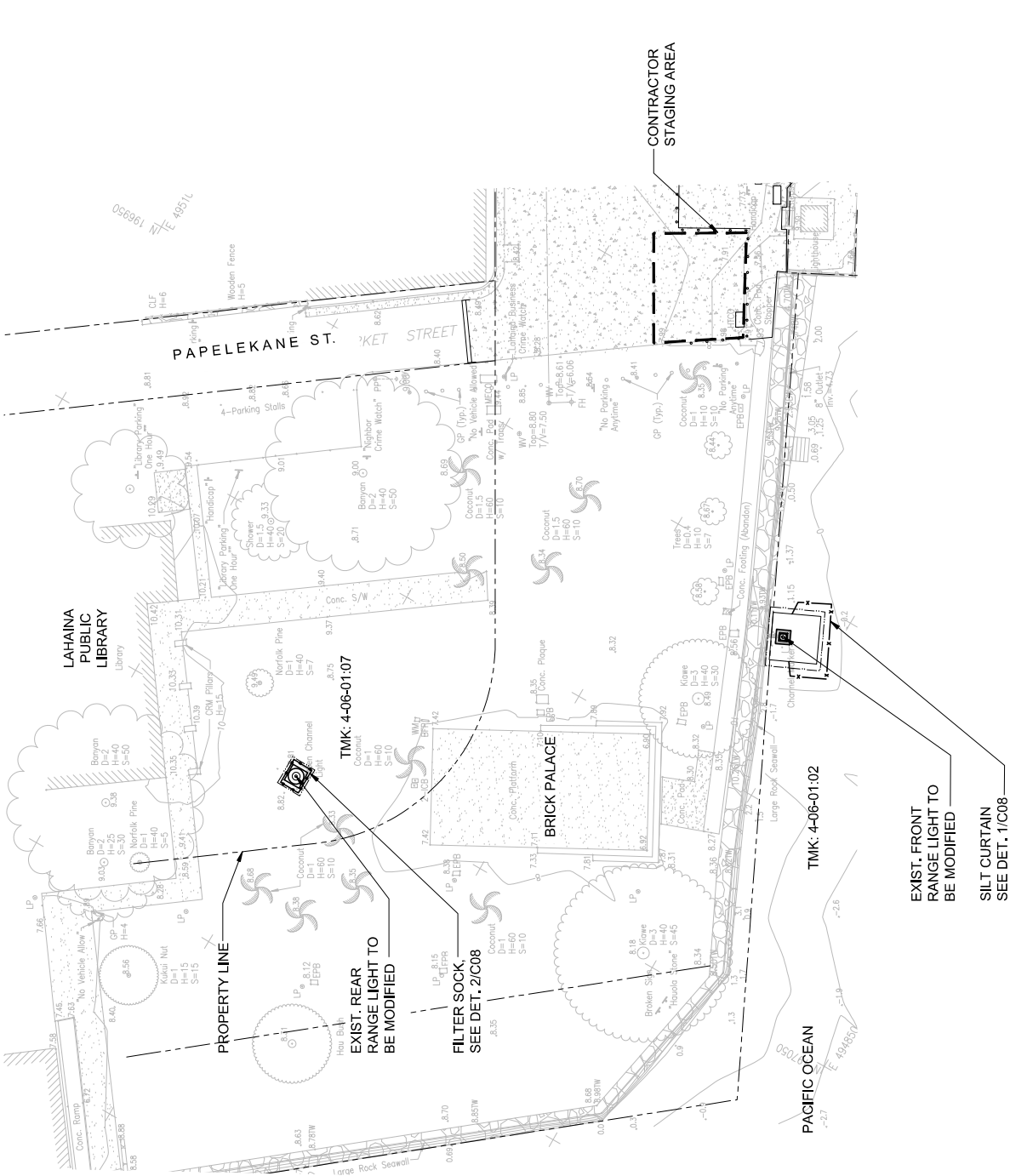
1. PRIOR TO CLEARING LAND FOR GRADING, THE TEMPORARY EROSION CONTROL MEASURES, AS REFLECTED ON THE EROSION CONTROL PLAN SHALL BE INSTALLED.
2. AREAS NOT WITHIN THE LIMITS OF GRADING SHALL REMAIN VEGETATED DURING GRADING OPERATIONS.
3. SILT WHICH HAS ACCUMULATED ON COMPOST FILTER SOCK SHALL BE REMOVED AND DISPOSED OF ON A BI-WEEKLY BASIS.
4. WHEN CLEARED OR GRUBBED AREAS ARE NOT TO BE GRADED OR DISTURBED FOR 30 DAYS OR MORE, SEED, PLANT OR HYDROSEED TEMPORARY VEGETATION.
5. THE CONTRACTOR'S EQUIPMENT STORAGE AREAS SHALL BE PROTECTED THROUGH THE USE OF EARTH BERMS AND/OR ABSORPTION MATERIALS TO PREVENT POLLUTANTS FROM DISCHARGING INTO STATE WATERS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN STORAGE AREAS.
7. ALL BMP AND EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT EROSION CONTROLS ARE IN PLACE AND ESTABLISHED.

SEQUENCE FOR SEDIMENT CONTROL:

1. INSTALL COMPOST FILTER SOCK, GOOD NEIGHBORHOOD/ DUST FENCE, STABILIZED CONSTRUCTION ACCESS ENTRY/EXIT, AND TEMPORARY INLET PROTECTION AT EXISTING CATCH BASINS.
2. COMMENCE GRADING OPERATIONS.
3. GROUND COVER, SUCH AS PAVING, GRASSING AND MULCHING TO BE INSTALLED IMMEDIATELY AFTER FINAL GRADES ARE ESTABLISHED.
4. AT COMPLETION OF THE PROJECT, ALL COMPOST FILTER SOCKS INCLUDING THE COMPOST MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

LEGEND:

- PROPERTY LINE
- LIMITS OF CONSTRUCTION
- SILT CURTAIN
- FILTER SOCK



REVISION NO.	SYN.	DESCRIPTION	SHT./OF	DATE	APPROVED
		STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION			
		LAHANA SMALL BOAT HARBOR MODIFICATION OF NAVIGATIONAL AIDS LAHANA, MAUI, HAWAII			
		EROSION CONTROL PLAN			
		DESIGNED: CH		SUBMITTED:	
		DRAWN: CADD		DATE: JULY 2019	
		CHECKED: CB		SCALE: AS NOTED	
		APPROVED:		DRAWING NO.	
		CHIEF ENGINEER		DATE	C07



This work was prepared by me or under my supervision

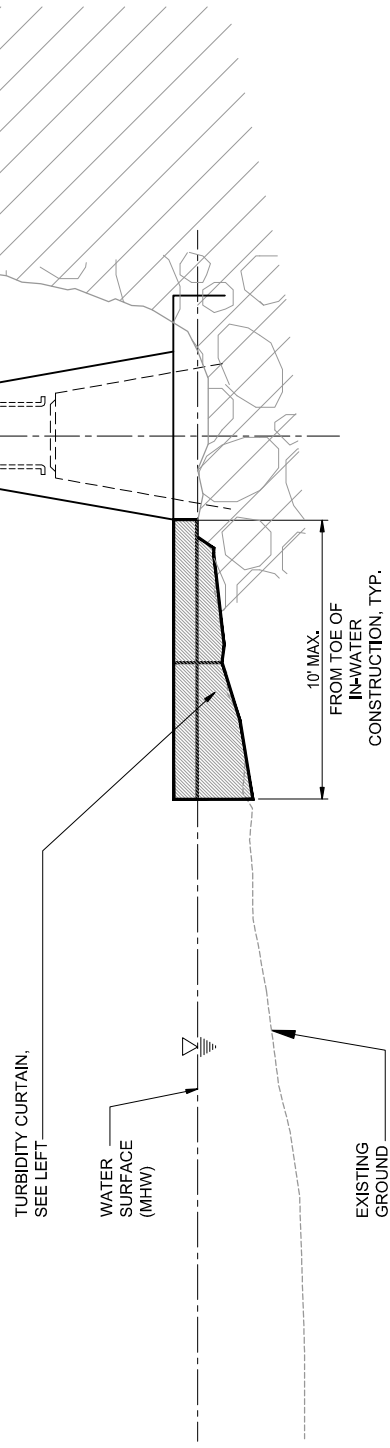
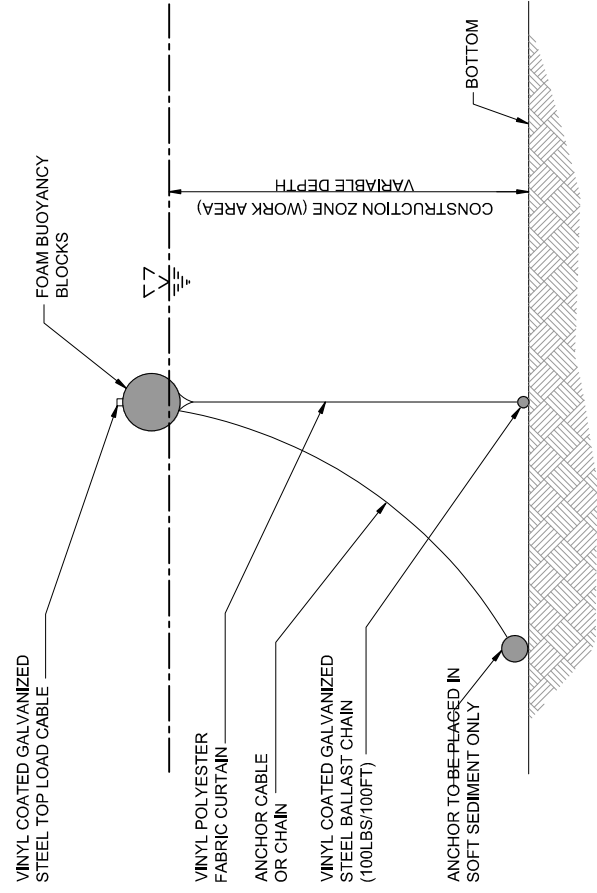
Chad M. McDonald
CHIEF ENGINEER
MTS/JMGA & ASSOCIATES INC.
4/30/2020
EXP. DATE

NOTE: Contractor to check and verify dimensions as per before proceeding with work.



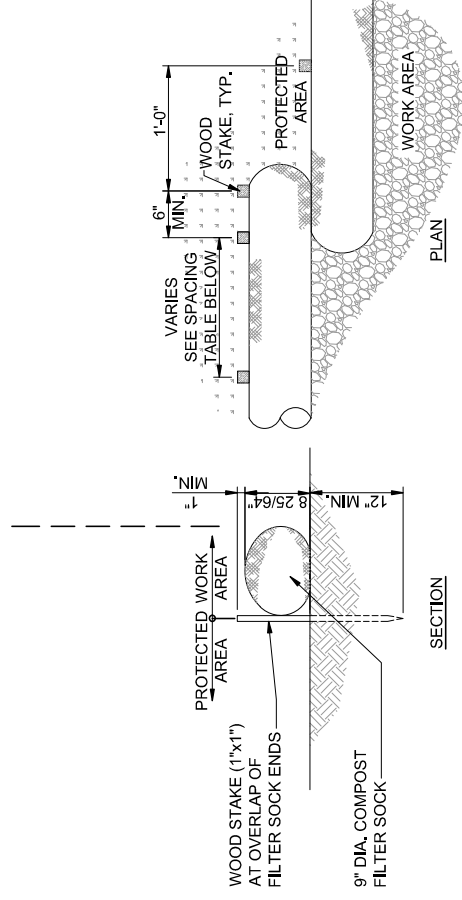
EROSION CONTROL PLAN

SCALE: 1" = 20'



TURBIDITY CURTAIN

NOT TO SCALE




- NOTES:


1. COMPOST SHALL NOT CONTAIN BIOSOLIDS & SHOULD BE CONSISTENT WITH EPA GUIDELINES

2. WOOD STAKES ONLY REQUIRED AT CONNECTION BETWEEN FILTER SOCKS AS SHOWN ON DETAIL PLAN

COMPOST FILTER SOCK

NOT TO SCALE

REVISION NO.	SYMBOL	<div><p>This work was prepared by me or under my supervision</p></div>	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII						
DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION						
LAHANA SMALL BOAT HARBOR MODIFICATION OF NAVIGATIONAL AIDS LAHANA, MAUI, HAWAII						
EROSION CONTROL DETAILS						
DESIGNED: CH		SUBMITTED:				
DRAWN: CADD		DATE:		JULY 2019		
CHECKED: CB		SCALE:		AS NOTED		
APPROVED:				DRAWING NO.		
CHIEF ENGINEER		DATE		C08		



25092020
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions of job before proceeding with work.