PAHUA HEIAU PUBLIC VIEWING AREA LANDSCAPE IMPROVEMENTS

PROJECT & CODE INFORMATION

PROJECT DESCRIPTION:
Per recommendations from the Archaeological Preservation Plan (dated September 2017) approved by the Department of Land and Natural Resources (DLNR) - State Historic Preservation Division (SHPD), the scope of this project is to improve the existing landscaped area below Pahua Heiau Complex.

GENERAL INFORMATION:
PROPERTY OWNER: THE OFFICE OF HAWAIIAN AFFAIRS (OHA)
TAX MAP KEY: TMK 3-9-056: 038
STREET ADDRESS: 7142 MAKAHUENA PLACE
HONOLULU, HAWAII 96825
ZONING: RESIDENTIAL DISTRICT 5
STATE LAND USE DESIGN: URBAN
FEMA FLOOD DESIGNATION: D (UNDETERMINED FLOOD HAZARD)
LOT AREA: 50,057 SF (1.15 AC)
CULTURAL RESOURCES IDENTIFIED IN THE PROJECT AREA:
SIHP # 50-80-15-0039: PAHUA HEIAU COMPLEX

REFERENCE CODES:
ALL CODES SHALL BE AS ADOPTED AND AMENDED BY THE CITY AND COUNTY OF HONOLULU:
- International Building Code (IBC), 2006 Edition with local amendments
- Uniform Plumbing Code (UPC), 2006 Edition with local amendments
- Uniform Fire Code (UFC), NFPA 1 2012 Edition with local amendments
- National Electrical Code, 2008 Edition

OTHER APPLICABLE CODES:
EXCEPTION - 2004 AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES (2004 ADAAG)
RELATING TO A PROJECT UNDER REVIEW FOR HAWAII REVISED STATUTES (HRS) 103.50.
Project Name: Pahua Heiau Viewing Area Improvements (Office of Hawaiian Affairs)
Dept Project Number: 3297
The 2004 ADAAG contains a provision relating to "historic preservation." The general exception is applicable in alterations, as follows:
202.5 Alterations to Qualified Historic Buildings and Facilities. Alterations to a qualified historic building or facility shall comply with 202.3 and 202.4 EXCEPTION: Where the State Historic Preservation Officer or Advisory Council on Historic Preservation determines that compliance with the requirements for accessible routes, entrances, or rest facilities would threaten or destroy the historic significance of the building or facility, the exceptions for alterations to qualified historic buildings or facilities shall be permitted to apply. 106.5 Defined Terms. Qualified Historic Building or Facility. A building or facility that is listed in or eligible for listing in the National Register of Historic Places, or designated as historic under appropriate State or local law.

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PAHUA HEIAU PUBLIC VIEWING AREA LANDSCAPE IMPROVEMENTS
7142 MAKAHUENA PLACE
HONOLULU, HI 96825
TMK 3-9-056 038

DATE: 11/06/2020

Koko Head
District Park
Maunalua Bay Beach Park
Kuapa Pond

ISLAND MAP
**SPECIAL NOTE: LITTLE FIRE ANT PREVENTION**

**ADDED IN PARCIALS COQUI AND/OR GLUTINOSE/AGRESSIVE PLANT MATERIALS**

1. PRIOR TO TRANSPORT TO THE PROJECT, INSPECT TAKE PRECAUTIONS AND CERTIFY THAT PLANT MATERIALS EQUIPMENT AND MATERIALS ARE FREE OF COQUI FROGS AND/OR THEIR EGGS.

2. IN THE EVENT OF THE PRESENCE OF COQUI FROGS AND/OR THEIR EGGS, THEY SHALL BE COMPLETELY DESTROYED AND DISPOSED AND THE PLANT MATERIAL EQUIPMENT, OR VEHICLE TREATED AS RECOMMENDED BY THE STATE AND RE-INSPECTED.

3. REPORT PRESENCE OF COQUI OGS OR EGGS TO THE HAWAI‘I DEPT. OF AGRICULTURE FAX (808) 644-6167, OR THE O‘AHU RARE SPECIES COMMITTEE (MSC) FAX (808) 234-7945 OR EMAIL: OISCMGR@HAWAII.EDU

**SPECIAL NOTE: COQUI FROG PREVENTION**

**LANDSCAPE CONTRACTOR WILL NOTIFY LANDSCAPE ARCHITECT OF RECORD AND THE CONTRACTOR REPRESENTATIVE PRIOR TO DELIVERY OF ANY PLANT MATERIALS TO THE PROJECT.**

**LANDSCAPE CONTRACTOR WILL SUBMIT A PLAN TO THE LANDSCAPE ARCHITECT AND THE OWNERS REPRESENTATIVE FOR APPROVAL PRIOR TO IMPORTATION OR IMPORTATION OF LITTLE FIRE ANT PLANTS MATERIALS AND OR EQUIPMENT, PRIOR TO PLANTING, OR COQUI FOR THE PROJECT SITE.**

**LANDSCAPE CONTRACTOR WILL TEST FOR LFA AND IDENTIFY THE SPECIES CORRECTLY, CONSISTENT INSTANTLY. IF LITTLE FIRE ANT TESTING CONFLICTS WITH SPECIES IDENTIFICATION.**

**LANDSCAPE CONTRACTOR WILL SUBMIT A PLAN TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO DELIVERY OF ANY PLANT MATERIALS TO THE PROJECT SITE.**

**LANDSCAPE CONTRACTOR WILL APPLY A BARRIER TREATMENT, FOLLOWING THE BANTING TO ALL MATERIALS AT THE SUPPLY NURSERIES REGARDLESS OF THE FIRE ANT FREE CLAIMS.**

**LANDSCAPE CONTRACTOR WILL OBLIQUE ALL SLOBS OR LOSE NURSERY MATERIALS WITH THE ROUND MIXTURE OF SEEDS ON PAR WAGGAS OR WATER INDICATED BY THE MANUFACTURER AND FOLLOW MANUFACTURER’S SAFETY PRECAUTIONS.**

**SYMBOLS**

- AND
- OR
- NOT
- IN
- EQUAL
- GREATER THAN
- LESS THAN
- NOT LESS THAN
- NOT GREATER THAN
- TYPICAL
- MINIMUM
- MAXIMUM
- UNLESS NOTED OTHERWISE

**PUBLIC HEALTH, SAFETY, & ENVIRONMENTAL NOTES**

- THE CONTRACTOR SHALL PROVIDE ADEQUATE FALSE FEEDS AND ENSURE THAT ENOUGH WATER IS AVAILABLE FOR THE FEEDS AND EQUIPMENT. THE CONTRACTOR SHALL MAINTAIN ADEQUATE AIR AND WATER QUALITY IN LINE WITH THE STATE DEPARTMENT OF HEALTH AND RELEVANT LAWS.

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NOTES:
1. THIS PLAN IS DIAGRAMMATIC.
2. ALL PAVING IS EXISTING EXCEPT WHERE NOTED ON DEMOLITION PLAN.
3. PROVIDE NEW CONDUIT AND SLEEVING UNDER EXISTING WALKWAY WHERE SHOWN.
IRRIGATION SCHEDULE

<table>
<thead>
<tr>
<th>MANUFACTURER/MODEL/DESCRIPTION</th>
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</tr>
</thead>
<tbody>
<tr>
<td>B. WIRING &amp; PLUMBING 1/&quot; SPOOL PVC FOR VALVES</td>
<td>PVC SPOOL 1/&quot; SPOOL PVC FOR VALVES</td>
</tr>
<tr>
<td>TUFF PUMP, 1/2, 3/4 &amp; 1 INCH PVC SLEEVED OR SCHEDULE 80 DESIRED FOR VALVE OUTLET</td>
<td>TUFF PUMP, 1/2, 3/4 &amp; 1 INCH PVC SLEEVED OR SCHEDULE 80 DESIRED FOR VALVE OUTLET</td>
</tr>
<tr>
<td>PVC SLEEVE 3/4 INCH SCHEDULE 80 PVC</td>
<td>PVC SLEEVE 3/4 INCH SCHEDULE 80 PVC</td>
</tr>
<tr>
<td>PVC CONDUIT 3/4 INCH SCHEDULE 80 PVC</td>
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<tr>
<td>PVC SLEEVE 1/2 INCH SCHEDULE 40 PVC</td>
<td>PVC SLEEVE 1/2 INCH SCHEDULE 40 PVC</td>
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</tr>
</tbody>
</table>

IRRIGATION GENERAL NOTES

1. THIS PLAN IS DIAGRAMMATIC. IRRIGATION SYSTEM IS SUBJECT TO FIELD ADJUSTMENTS.

2. CONTRACTOR SHALL INSTALL ALL IRRIGATION EQUIPMENT. ALL WORKS TO BE PERFORMED BY A LICENSED CONTRACTOR.

3. THE IRRIGATION SYSTEM WAS DESIGNED TO PERFORM WITH A STATIC PRESSURE OF 60 PSI.

4. MANUFACTURER/MODEL/DESCRIPTION: RAIN BIRD R-VAN-STRIP 1812-SAM-P45 |
   | PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE |
   | HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 TURF |

5. LOCATE AND INSTALL ALL SPRINKLER HEADS 1/2" FROM SIDEWALK, CURB, DRIVEWAYS, BUILDING AND WALL, UNLESS OTHERWISE NOTED. FLEX TUBING SHALL BE INSTALLED ON ALL VALVES AND HEADS, UNLESS OTHERWISE NOTED. ENSURE THAT THESE ITEMS ARE LAID PRIOR TO PLACEMENT OF PAVEMENT OR WALL STRUCTURES.

6. WITHIN 30 DAYS AFTER AWARD OF THE CONTRACT, SUBMIT FOR THE ARCHITECT’S ACCEPTANCE SIX (6) COPIES OF DETAILED SCALED DRAWINGS AND WIRING DIAGRAMS FOR PERMANENT AND TEMPORARY INSTALLATION. NOT PROPOSED DEVATIONS FROM THE CONTRACT INCLUDE: SAMPLES OF MATERIALS, UNLESS REQUIRED BY CONTRACT.

7. PERFORMANCE OF TESTS. REPAIR LEAKS THAT DEVELOP AND REPEAT TEST. DO NOT BACKFILL UNTIL THERE IS NO FURTHER SIGN OF LEAKAGE. THERE IS NO FURTHER SIGN OF LEAKAGE.

8. CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OVERTHROW AND MISTING. OPERATE ONLY ONE VALVE AT A TIME PER CONTROLLER, UNLESS OTHERWISE NOTED.

9. LOCATE VALVE BOXES AWAY FROM PEDESTRIAN WALKWAYS AND ENSURE BOXES ARE SECURED WITH A COVER. BOXES SHALL NOT DISPLACE PLANT MATERIAL TO WITHIN 30 DAYS AFTER AWARD OF THE CONTRACT, SUBMIT FOR THE ARCHITECT’S ACCEPTANCE SIX (6) COPIES OF DETAILED SCALED DRAWINGS AND WIRING DIAGRAMS FOR PERMANENT AND TEMPORARY INSTALLATION.

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PLANTING PLAN

1. PROVIDE WELL-GROWN, TRUE TO GENUS, SPECIES, VARIETY, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN THE PLANT SCHEDULE AND COMPLYING WITH ANSI Z60.1; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING.

2. NEW TREES/PALMS WITH DAMAGED, CROOKED, MULTIPLE LEADERS, TIGHT VERTICAL BRANCHES, CROSSING TRUNKS, OR STEM GIRLING ROOTS WILL BE REJECTED; NEW PALMS WITH CROOKED TRUNKS WILL BE REJECTED.

3. NEW RAISED PLANTER FOR THE FUTURE PLANTING OF UALA (SWEET POTATO) BY COMMUNITY MEMBERS/ STEWARDS. REFER TO DETAIL 9/L-302 FOR RAISED PLANTER DETAIL.

4. CONTRACTOR SHALL REPAIR ALL EXISTING LAWN AREAS DAMAGED BY CONSTRUCTION, INCLUDING ANY IRRIGATION WORK; NEW TURFGRASS SHALL MATCH EXISTING TURFGRASS, CONTRACTOR TO VERIFY ON SITE.

5. FURNISH NEW PLANTS TRUE TO GENUS, SPECIES, VARIETY, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN THE PLANT SCHEDULE AND COMPLYING WITH ANSI Z60.1; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING.

6. PROVIDE WELL-GROWN, TRUE TO GENUS, SPECIES, VARIETY, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN THE PLANT SCHEDULE AND COMPLYING WITH ANSI Z60.1; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING.

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PLANT SCHEDULE

<table>
<thead>
<tr>
<th>Plant Type</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-301</td>
<td>10</td>
<td>1001 BISHOP STREET PUBLIC VIEWING AREA</td>
</tr>
<tr>
<td>L-302</td>
<td>5</td>
<td>7142 MAKAHUENA PLACE IMPROVEMENTS</td>
</tr>
</tbody>
</table>

PLANTING NOTES:

1. Landscape Contractor shall field verify all plant quantities and dimensions prior to installation. Quantities shown on plant list and material schedules are for reference only; verify actual quantities as shown on plan. If there is a discrepancy, the planting plan shall take precedence.

2. Landscape Contractor shall be responsible for locating and protecting existing utilities.

3. Prior to tree and shrub hole excavation, all planting locations shall be staked out by contractor for approval by landscape architect (LA). Do not plant data, ground has been prepared and tree of stones greater than 12" dia., site is neat, orderly, and the LA accepts site for planting.

4. Notify LA of any discrepancies in plant locations or insufficient plant quantities due to difference in plans and actual field conditions.

5. Notify LA 30 days prior to planting operations for approval of all plant material at place of growth. All plant material not approved by the LA will be subject to rejection. The LA will inspect plants at the place of growth and after the delivery to the project. Each tree shall be tagged by the LA. Trees delivered to the project without LA's tag will be rejected.

6. Plants shall meet size indicated by minimum height and spread. Plants shall be straight and uniformly shaped, unless unique or special characteristics are specified, and shall be undamaged, sound, healthy, vigorous and free of disease and insect infestation. Plants not conforming to these requirements on delivery to the project and at the end of the plant establishment period will be rejected.

7. Contractor shall be solely responsible for the complete removal and damages resulting from planting any plant species listed on the Hawaii Department of Agriculture 'Noxious Weed List' as defined in the statute. Hawaii Administrative Rules 4-1 or the Federal Nuisance Weed List, as defined in Title 7 of the Code of Federal Regulations (CFR), Parts 360 and 361.

8. All tree work must advise to American National Standard Institute (or ANSI) - A300 Tree Care Standards and ANSI-Z133 Safety Standards for tree work. Work shall be contracted to arborists that has been certified in good standing as a professional arborist for at least 5 years to assure that tree work is performed properly and trees are not damaged by practices such as trenching, flushing, over-thinning, or climbing with spikes. Contractor shall submit a copy of the ISA Arborist Certification of Good Standing of 5 years to the Landscape Architect a minimum of 7 days prior to tree pruning.

9. For the duration of construction within the drip line of trees to remain, there must be no changes, alterations or disturbances to the grade by adding fill, excavating or grading except as noted on plans. No storage of construction materials or equipment, no stockpiling of any construction material or any excavated material, no disposal of any liquids (e.g. concrete, silt, gas, oil, paint), no construction material to be stockpiled, no cover or concealment of any wires, cables, lights, or any other such attachment other than those of protective nature to any tree to be preserved; and no cleaning of equipment or materials under the canopy of any tree. On completion of tree work.

10. Provide an even layer of planting soil over all planting areas. Refer to the specifications for topsoil mixture depth. Representative samples of soil from project site shall be submitted to a laboratory acceptable to the landscape architect for analysis. The landscape architect shall approve the test results and fertilization schedule shall be presented to the landscape architect for review and acceptance. A soil analysis report shall be submitted to the landscape architect for any amendments over planting areas as recommended by the soil analysis report. Fertilizer top dressings shall be applied to layer of soil to evenly incorporate fertilizer and amendments.

11. Guy wires, flags, stakes, windbreakers, etc. shall be maintained and replaced if necessary by the contractor until the tree or shrub is of sufficient size to support itself. Guy wires shall remove and dispose at the end of plant establishment periods.

12. After installation of planting & irrigation, landscape contractor shall provide final, as-built plans showing all changes made in the field.
Description

04/30/22

PAHUA HEIAU PUBLIC VIEWING AREA

LANDSCAPE IMPROVEMENTS

NOTE:
1. S.S. = STAINLESS STEEL
2. ALL SCREW HEADS SHALL BE FLUSH WITH LUMBER SURFACE.
3. MOUNTING HOLE DIAMETERS ARE NOMINAL.
4. MATERIAL: TREX SELECT; COLOR: SADDLE

LOCAL SALES REP:
PACIFIC AMERICAN LUMBER
142 MOKAUEA ST., HONOLULU, HI 96819
PH: 808-845-8700
FAX: 808-842-6706

PLANTING DETAILS

1. TREE PLANTING AND GUYING

NOTE:
1. MANHOLE LAYING PLANTING WATER HOSES TO ENSURE SOIL SETTLE AROUND ROOTS.

2. ROOT BARRIER

NOTE:
1. S = SPACING (REFER TO PLANT LIST FOR SPACING)

3. SHRUB PLANTING

NOTE:
1. USE SPACING LAYOUT FOR SHRUB, GROUND COVERS, AND ANNUALS

4. GROUND COVER PLANTING

NOTE:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS. USE PLANTED MATERIALS FROM MANUFACTURER'S FULL LINE OF COLORED MATERIALS

5. TRIANGULAR SPACING

NOTE:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS. USE PLANTED MATERIALS FROM MANUFACTURER'S FULL LINE OF COLORED MATERIALS

6. HYDRO-SEED/SPRIG DETAIL

NOTE:
1. SYMPTOMS OF DEEP CUT EDGE WHERE MINIMUM THICKNESS OF UNDERLAYER IS ABSOLUTE

7. SHOVEL CUT EDGE

NOTE:
1. SYMPTOMS OF DEEP CUT EDGE WHERE MINIMUM THICKNESS OF UNDERLAYER IS ABSOLUTE

8. RECYCLED COMPOSITE HEADER

NOTE:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS. USE PLANTED MATERIALS FROM MANUFACTURER'S FULL LINE OF COLORED MATERIALS

9. RAISED PLANTER DETAIL

NOTE:
1. SYMPTOMS OF DEEP CUT EDGE WHERE MINIMUM THICKNESS OF UNDERLAYER IS ABSOLUTE

TYPICAL SUPPORT POST

1. SYMPTOMS OF DEEP CUT EDGE WHERE MINIMUM THICKNESS OF UNDERLAYER IS ABSOLUTE

LANDSCAPE FILTER FABRIC

NOTES:
1. SYMPTOMS OF DEEP CUT EDGE WHERE MINIMUM THICKNESS OF UNDERLAYER IS ABSOLUTE

ORGANIC POTTING SOIL FOR FUTURE UALA PLANTING