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HAWAII PUBLIC HOUSING AUTHORITY
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HONOLULU, HAWAII 96817

IN REPLY PLEASE REFER TO:

ADDENDUM NO. 1

**SITE & DWELLING IMPROVEMENTS TO KAHALE MUA (FEDERAL) HA 1088
AND SITE IMPROVEMENTS TO KAHALE MUA (STATE) HA 2205**

Tax Map Key No.: (2) 5-1-002-039 & 040

HPHA JOB NO. 09-042-000-S

IFB-CMB-2016-11

May 17, 2014

NOTICE TO ALL PROSPECTIVE BIDDERS:

The Hawaii Public Housing Authority (HPHA) is issuing this Addendum No. 1 to the Invitation for Bid IFB-CMB-2016-11, HPHA Job No. 09-042-000-S for the Site & Dwelling Improvements to Kahale Mua (FEDERAL) HA 1088 and Site Improvements to Kahale Mua (STATE) HA 2205.

This Addendum modifies the original solicitation documents, as amended, for the project dated May, 2014. The item in this Addendum shall govern the work, taking precedence over previously issued specifications and drawings governing the items mentioned. Acknowledge receipt of this Addendum in the space provided on the sealed Bid Form.

1. **PRE-BID MEETING MINUTES** (See attached 6 pages)
 - A. The attached Pre-Bid Meeting Minutes represents a record of the meeting and of the discussions and shall not be considered as additional instruction to Bidders unless specifically noted below.
2. **CHANGES TO SPECIFICATIONS**
 - A. SECTION 01330 – SUBMITTAL PROCEDURES
 - i. **DELETE** entire specification section and **REPLACE** with attached revised Section 01330 – Submittal Procedures. All changes
 - B. SECTION 08 71 00 – DOOR HARDWARE
 - i. **DELETE** entire specification section and **REPLACE** with attached revised Section 08 71 00 – Door Hardware.

- C. SECTION 09 29 00 – GYPSUM BOARD & CEMENT BOARD
i. 2.2(D): **ADD** "(at bathrooms, kitchens, & window jamb)"
- D. SECTION 26 20 00 – ELECTRICAL WORK
i. 2.6(A): **DELETE** "Smooth ivory nylon or lexan" and **ADD** "Stainless steel"
3. **ADDITIONAL INFORMATION**
A. The awarded Contractor will not be allowed to use a vacant unit as their site office because the HPHA's priority is to complete the vacant units so that people can be placed into housing.
4. **REQUEST FOR INFORMATION**
A. **Question #1:** Will a door schedule be issued? Plans include a window schedule but no door schedule. Please advise.
Answer #1: The construction plans designate which doors are to be replaced, the bidding contractor is responsible to field verify the existing door size, and replace the door with the same sized door. New doors as specified in Section 08 14 16 - Wood Doors. New door hardware for doors designated on the construction plans is specified in Section 08 71 00 – Door Hardware of the specification manual.
- B. **Question #2:** The specifications do not indicate a period of time that will be taken to respond to contractors when an RFI is provided. How much time will be taken to respond to RFI's during construction?
Answer #2: During construction, response time will be up to 10 working days.
- C. **Question #3:** Will the ranges in all units be replaced, the plans do not call out specifically which units get ranges.
Answer #3: Key Notes: Units with Renovated Interiors: Units 17, 18 A & B, 19B, 22C, 23B, 24 A, 25 (Community Center) F5.6 Replace appliances with new Energy Star Refrigerator (33" opening) range (36" opening). Replace exhaust hood. Key Notes are found on: A17.1, 18.1, 19.1, 20.1, 21.1, 22.1, 23.1, 24.1, 25.1.
- D. **Question #4:** When replacing the hot water heaters, was it the intent to keep hot water service available to the units while the decks and water heaters are replaced?
Answer #4: Key Notes: EXTERIOR WALL FRAMING SIDING & TRIMS: F3.1 & F3.1A "... Coordinate with Agency & property Manager to provide temporary hot water during non construction hours for residents."
Key Notes are found on: A17.1, 18.1, 19.1, 20.1, 21.1, 22.1, 23.1, 24.1, 25.1.

APPROVED BY:



Rick T. Sogawa
Procurement Officer



PRE-BID MEETING MINUTES

**Site & Dwelling Improvements to Kahale Mua (Federal) HA 1088 and Site
Improvements to Kahale Mua (State) HA 2205**

HPHA JOB NO. 09-042-000-S

IFB-CMB-2016-11

May 12, 2016 – 9:00 a.m.

A. WELCOME & INTRODUCTION

- Welcome by the Hawaii Public Housing Authority (HPHA)
- Introduction of Project Team & the HPHA Staff
 - Becky Choi: HPHA State Housing Development Administrator
 - Rick Sogawa: HPHA Procurement Officer
 - Eric Richards: HPHA Inspector
 - Mandi Kamalii: HPHA Asset Management Project (AMP) Manager
 - Johnette "Lali" Kaai: HPHA Site Manager
 - Phil Johnson: Riecke Sunnland Kono Architects
- All information provided during this meeting differing from the Bid Documents shall not be considered a directive unless specifically addressed in the addenda.

B. BID PROCEDURE

- Bid Opening Date is June 9, 2016 at HPHA's 1002 N. School Street Honolulu Office at 2:00 p.m., Hawaii Standard Time (HST),
- Deadlines:
 - Requests for Information– No questions will be considered after May 20, 2016 (Substitution Requests will only be reviewed after award, and not accepted during the bid period.)
 - Notice of Intent to Bid – 4:00 p.m., May 27, 2016
- Bid Submittal
 - Envelope should be sealed and clearly state "Do not open, sealed bid for IFB" with project number and name.
 - If mailing bid submittal to HPHA, bid must arrive before the due date and time. Also make it clearly marked "DO NOT OPEN, BID DOCUMENTS".
 - HCE Compliance – The Bidder shall be HCE compliant.
- General organization of Specifications
 - HPHA Required Submittals Table; HUD and HPHA General Conditions
 - Submittals Required Prior to Bid
 - Notice of Intent to Bid
 - Submittals Required with Bid
 - Form of bid –
 - check math
 - full company name as registered to do business
 - acknowledgment of addenda
 - inclusive of tax.
 - Contract Period is 300 calendar days, inclusive of all submittals and lead time for materials.

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- Revisions will need to be submitted to DPP and DCAB and are currently under review. Building Permit might not be approved for pick up until end of 2016.
 - You'll be held to the full scope of the project.
 - Bid Bond - We require a bid bond in the amount specified in the Bid Documents. If you pull your bid amount, we can and will keep your bid bond amount at our discretion.
 - License
 - Contractor's "B" license is required for this project.
 - Required Licenses – The Bidder shall make sure to list all sub-contracts and their licenses. Prime shall list himself if performing the work. Missing any subcontractor, including self-performed work may disqualify the bid. Make sure the licenses provided actually cover the license required. No blanks on this form. If work is less than 1%, bidder must enter a sub or indicate "<1%" on the line. Submit RFI if a contractor feels that a line is missing or not needed.
 - General Contractor required to self-perform a minimum of 20% of work, and this does not include General Conditions.
 - Other required documents
 - Corporate Resolution
 - Prime Certification of Subcontractor's Eligibility
 - Statement of Bidder's Construction Experience
 - HCE Compliance (Dept. of Taxation, DCCA, DLIR clearance)
 - Schedule of Project Apprenticeship Trades and Certification Of Bidder's Participation In Approved Apprenticeship Program (if applicable)
 - Clarifications given verbally are NOT considered valid until it is issued in writing.
 - Don't add any conditions to the bid. It may disqualify the bid.
 - Submittals Required after Award
 - Draft Contract – Review the draft contract in the specifications; by submitting your bid, you are agreeing to these requirements.
 - Insurance Certificates are required with special language per the Special Conditions, including "additional insured". Bidder shall provide updates that are current within 30 days and when required for initial and supplemental contracts and when requested by HPHA.
 - Performance and Payment Bonds – We require bonds in amount of 100% of the contract amount.
 - Awarded Contractor shall pay for and obtain the Building Permit prior to start of construction.
 - Appendix
 - Will be required to pay all workers the locked-in Davis Bacon General Decision Wage Rate or the prevailing wage for State of Hawaii, whichever is higher.
 - Section 103-55.6, HRS-2012, (Act 17) Hawaii Apprenticeship preferences. If selected to use, you must comply with monthly documentation requirements.
 - General Requirements
 - Technical Specifications
- C. SITE ACCESS
- Parking for Contractors: to be coordinated with Site Manager and awarded Contractor

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- Access Issues: to be coordinated with Site Manager and awarded Contractor
- On-Site Storage Designated Areas: to be coordinated with Site Manager and awarded Contractor.

D. DESIGN/CONSTRUCTION ISSUES

- Project Overview by Consultant (Phil Johnson, Riecke Sunnland Kono Architects, Ltd.)
 - Kahale Mua Federal brief overview:
 - All buildings: Re-roof, gutters, downspouts, fall protection, vents, flashing, all units rear decks/stairs including water heater enclosures, water heaters, front and back doors, all windows, all smoke detectors, all bathroom exhaust vents, exterior paint, ADA site work, specific area of pavement reconstruction, slurry coating parking, parking striping, stall numbers, erosion/drainage improvements, fence/wall, perimeter posts, building skirts, bollards, termite tenting and termite ground treatment.
 - Interior Renovation (total of 7 living units and community/office/laundry/maintenance building): Visual Impaired/Hearing Impaired unit, mobility impaired unit, baths, kitchens, flooring, paint, interior doors, hardware, appliances, and fixtures.
 - Kahale Mua State brief overview:
 - Perimeter fence, bollards around gas tank, and walkway repair between Federal and State.
- Consultant Design Issues
- The project will be phased (vacant units are a priority)
 - Amount of buildings to tent at one time will be based on quantity of available housing for tenants.
- Construction Issues
 - temporary utilities
 - access will be Contractor's responsibility
 - safety and security
 - termite tenting
 - Allowance in bid for relocation of the tenants for tenting. Must be coordinated and approved through HPHA. Contractor must submit invoices to HPHA for reimbursable.

E. PROCUREMENT

- Procurement overview by the HPHA
 - Awardee vs. Lowest bidder (responsive and responsible) – Being lowest apparent bidder does not mean you will be the awardee. The bidder and bid submittals will be reviewed for responsiveness and responsibility.
 - Award versus Selection – The award will be based on the TOTAL of Bid Item No.1 (site, interior and exterior work) plus Bid Item No. 2 (concrete repairs) plus Bid Item No. 3 (tenant relocation).
 - Preferences – The Reciprocal, Apprentice, and Hawaii Products preferences all provide opportunities for the Bidder to lower their bid amount for selection purposes.
 - Act 192, Chapter 103B, HRS: 80% min Hawaii residents are required for the general and each subcontract greater than \$50,000.

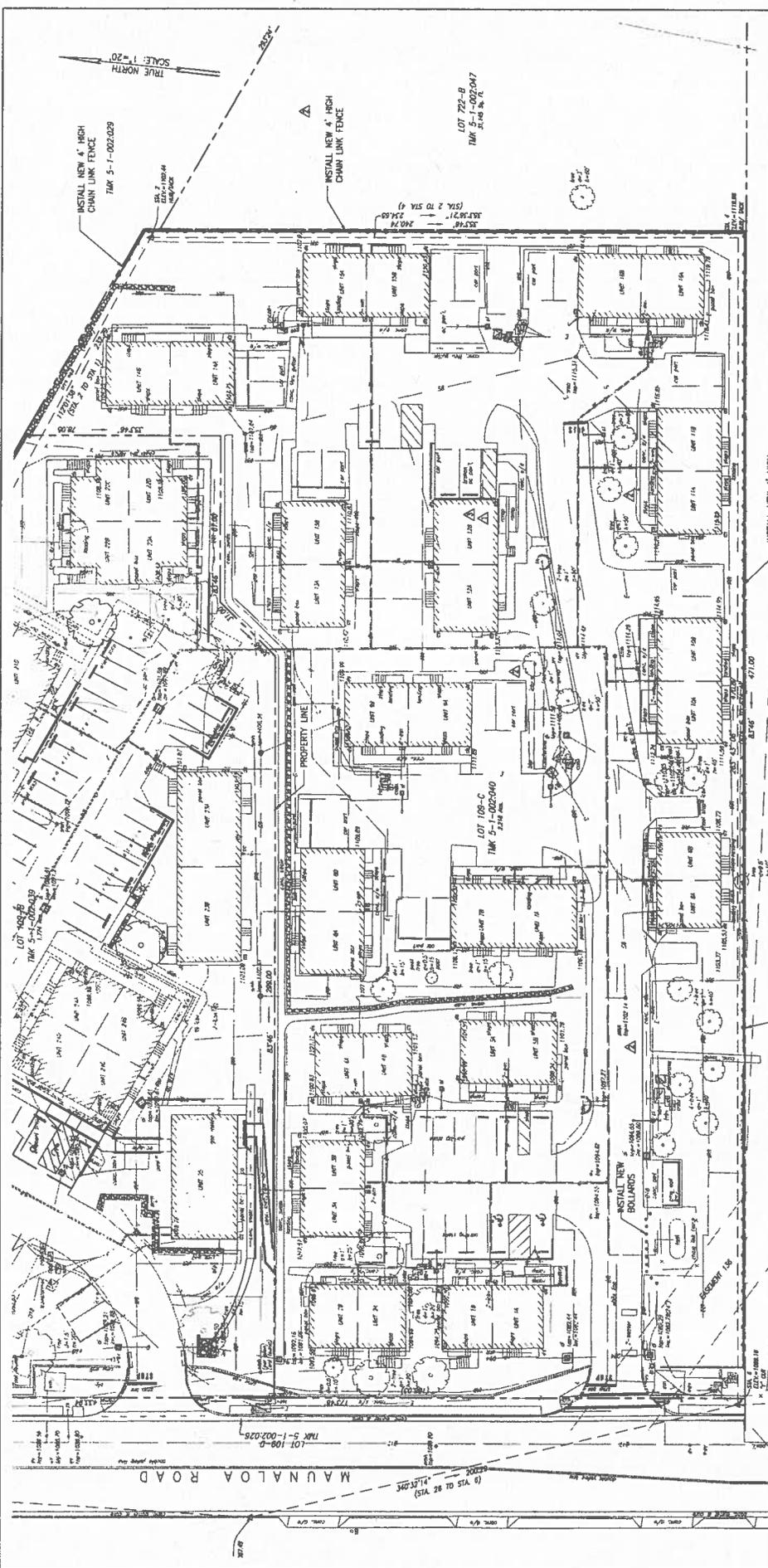
F. QUESTIONS & DISCUSSION

- An Addendum will be issued to include any Requests for Information (RFI) received during the pre-bid meeting or before the RFI period closes.

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- HPHA Inspector shall inspect: every trench, compaction test, walls before closing, concrete pour, surfaces prepped for paint, etc... and must have advanced notice.

G. SITE AND DWELLING UNIT INSPECTION



SCALE 1" = 20'

INSTALL NEW 4" HIGH CHAIN LINK FENCE
TRK 5-1-002-029

INSTALL NEW 4" HIGH CHAIN LINK FENCE

LOT 722-B
TRK 5-1-002-047

LOT 106-C
TRK 5-1-002-040

INSTALL NEW 4" HIGH CHAIN LINK FENCE

PROPERTY LINE
EASEMENT 125
LOT 4-A
TRK 5-1-002-003

INSTALL NEW BOLLARDS

MAUNALOA ROAD

GENERAL SITE PLAN - 2 (STATE)
SCALE 1" = 20'

| | | |
|---|--|----------|
| 5 | REVISED SCOPE | 4/7/16 |
| 3 | REVISED DRAWING TO COMPLY W/ OAHG 20B2.4 AND 20C.1 | 10/18/13 |
| 2 | REVISED SITE #1 AND ADDED DRIVES INSIDE STALLS | 10/16/13 |
| 1 | REVISED DRAWING TO COMPLY W/ OAHG 20B2.4 | 1/29/13 |
| 0 | DATE | DATE |

| | |
|---|---|
| BODY OF HAWAII SERVICES STATE OF HAWAII HONOLULU, HAWAII, 96813 | |
| Site and Building Improvements to: 1. Lot 722-B and Site Improvements to Korobe Mui, (State) HA 2205 | GENERAL SITE PLAN - 2 (STATE) PROJECT NO. 10-045-000-5 SHEET NO. C-106 DATE 10/21/12 |
| DRAWN BY: [Signature] CHECKED BY: [Signature] SCALE AS NOTED | DATE 10/21/12 SHEET NO. C-106 OF 81 |

SECTION 01330 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.01 SUMMARY

- A. Comply with the GENERAL CONDITIONS "Shop Drawings and Other Submittals" section and "Material Samples" section.
- B. This Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other miscellaneous submittals.
- C. Related Sections include the following:
 - 1. SECTION 01320 - CONSTRUCTION PROGRESS DOCUMENTATION.
 - 2. SECTION 01770 - CLOSEOUT PROCEDURES.

1.02 SUBMITTAL PROCEDURES

- A. **Coordinate Work and Submittals:** The Contractor shall certify the submittals were reviewed and coordinated. The Contractor shall be responsible for the coordination of all contract work and submittals. The Contractor shall identify, review and correct all submittals prior to submission. This shall be signed by attaching the stamp described in subsection 1.02(D) below.
- B. **Submittal Certification:** Provide in MS Word when submitting electronically. Provide a reproduction (or stamp) of the "Submittal Certification" and furnish the required information with all submittals. This stamp, properly and legibly "filled in" shall appear on each shop drawing, on the cover sheet of submittals as follows:
 - 1. The title sheet of each shop drawing, or on the Contractor's form
 - 2. The cover sheet of submittals in 8-1/2 inch x 11-inch format, or on the Contractor's form
 - 3. One (1) face of a cardstock tag (minimum size 3-inch x 6-inch) tied to each sample. On the sample tag, identify the sample to ensure sample can be matched to the tag if accidentally separated. The opposite face of the tag will be used by the Project Engineer to receive, review, log stamp and include comments.
- C. **Variances:** The Contractor shall request approval for a variance. Clearly note any proposed deviations or variances from the Specifications, Drawings, and other Contract Documents on the submittal and also in a separately written letter accompanying the submittal.

- D. Submittal Certification Form (stamp or digital). This stamp, properly and legibly "filled in" shall appear on each shop drawing, on the cover sheet of submittals, or on one face of a cardstock tag tied to each sample:

CONTRACTOR'S NAME: _____
 PROJECT: _____
 HPHA JOB NO: _____
 HPHA CONTRACT NO.: _____

This submittal has been checked by the Contractor. It is certified correct, complete, and in compliance with Contract Drawings and Specifications. All affected Sub-Contractors and suppliers are aware of, and will integrate this submittal into their own work.

SUBMITTAL NUMBER _____ DATE RECEIVED _____
 REVISION NUMBER _____ DATE RECEIVED _____

SPECIFICATION SECTION NUMBER _____
 SPECIFICATION PARAGRAPH NUMBER _____
 DRAWING NUMBER _____
 SUBCONTRACTOR'S NAME _____
 SUPPLIER'S NAME _____
 MANUFACTURER'S NAME _____
 CERTIFIED BY _____

NOTE: DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE PROPOSED AS FOLLOWS (Indicate "NONE" if there are no deviations)

| | |
|--------------|--|
| CERTIFIED BY | |
|--------------|--|

Note: Form can be combined with Design Consultant's Review stamp. This is available from the Project Engineer.

- E. All submittals for material, equipment, and all shop drawings shall be required and shall be reviewed by the HPHA Engineer prior to ordering any materials and equipment. The Contractor shall be responsible for any costs, repairs, removal and replacements required by ordering material and equipment prior to the HPHA review.

- F. Make submittals promptly to meet the schedule, and in such sequence as to cause no delay in the Work or in the work of any other Contractor or subcontractor.
- G. E-Submittal Process: The Contractor shall provide data, brochures, and any written information via electronic submittals emailed to the HPHA, the Architect, and their consultants for review and comment. Samples shall be delivered to the HPHA for review and processing.
- H. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
 4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- I. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
1. All items shall be submitted separately for Federal and State even if the products are the same. The HPHA keeps separate records for each project.
 2. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. The Architect will advise the Contractor when a submittal being processed must be delayed for coordination.
 3. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 4. Resubmittal Review: Allow 15 days for review of each resubmittal.

5. Sequential Review: Where sequential review of submittals by the Architect's consultants, the HPHA, or other parties is indicated, allow 21 days for initial review of each submittal.

1.03 SUBMITTALS

- A. Submittal Log: The following listing of required submittals is provided for the Contractor's convenience. The Contractor shall review the technical section of this specification, prepare and submit a comprehensive listing of required submittals as described under this Submittal Procedures Specification Section 01330.

| Section No. - Title (List in numerical order of the Spec. Section No.) | Shop Drawings & Diagrams | Samples | Certificates | Mfr, Guaranty / Warranty (> 1 yr.) | Product Data, Mfr. Tech. Lit., Brochure | MSDS Sheets | Calculations | Reports (Tests, Maint., Inspection, etc.) | Test Plan | O & M Manual | Equipment / Fixture Listing | Schedules (Project / Installation) | Maint. Service Contract | Field Posted As-Built Drawings | Others |
|--|--------------------------|---------|--------------|------------------------------------|---|-------------|--------------|---|-----------|--------------|-----------------------------|------------------------------------|-------------------------|--------------------------------|--------|
| 02 36 10 Termite Control | | | X | X | X | X | | X | | | | X | | | |
| 02 41 19- Selective Demolition | | | | | | | | X | | | | X | | | |
| 03 30 00 - Cast-in-place Concrete | | | X | | X | | | X | | | | X | | | |
| 06 10 00 - Rough Carpentry | | | | X | X | X | | | | | | X | | X | |
| 06 15 33 - Composite Decking | | X | | X | X | X | | | | | | X | | | X |
| 07 01 50.19 - Preparation for re-roofing | | | | | X | | | | | | | X | | | |
| 07 31 00 - Asphalt Shingles | | X | X | X | X | X | | X | | | | X | | | X |

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|--|--------------------------|---------|--------------|------------------------------------|--|-------------|--------------|--|-----------|--------------|-----------------------------|------------------------------------|-------------------------|--------------------------------|--------|
| 07 62 00 - Sheet Metal Flashing, Gutters & Trim | X | X | | X | X | | | | | | | X | | X | |
| 07 90 00 - Joint Sealants | | X | X | X | X | | | | | | | X | | | |
| 08 11 66 - Security Screen Doors | | | X | | X | | | | | X | | X | | | |
| 08 14 16 - Wood Doors | X | X | | X | X | | | | | | | X | | | |
| 08 52 00 - Louver Windows | X | | X | X | X | | | | | X | | X | | | X |
| 08 53 13 - Vinyl Windows & Sliding Glass Doors | X | | X | X | X | | | | | | | X | | | X |
| 08 71 00 - Door Hardware | | | X | X | X | | | | | X | | X | | | X |
| 08 91 19 - Fixed louvers | X | | X | X | X | | | | | | | X | | | |
| 09 07 51 - Solid Surface Wall Cladding | | X | | X | X | | | | | X | | X | | | |
| 09 29 00 - Gypsum Board & Cement Board | | | | X | X | | | | | | | | | | |
| 09 30 00 - Tiling | | X | | X | X | X | | | | | | X | | | |

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|---|--------------------------|---------|--------------|------------------------------------|---|-------------|--------------|---|-----------|--------------|-----------------------------|------------------------------------|-------------------------|--------------------------------|--------|
| 09 65 19 - Resilient Tile Flooring | | X | | X | x | X | | | | | | X | | | X |
| 09 91 13 - Exterior Painting | | X | | X | X | X | | | | | | X | | | X |
| 09 91 23 - Interior Painting | | X | | X | X | X | | | | | | X | | | X |
| 10 14 19 - Dimensional Letter Signage | | X | | X | X | | | | | | | X | | | |
| 10 28 00 - Toilet & Bath Accessories | | | | X | X | X | | | | | | X | | | |
| 10 44 16 - Fire Extinguishers | | | | X | X | | | | | X | | X | | | |
| 11 31 00 - Residential Appliances | | | | X | X | | | | | X | | X | | | |
| 11 81 29 - Rooftop Fall Protection XSafety Systems | | | | X | X | X | | | | X | | X | | | |
| 12 35 30 - Residential Casework | X | X | | X | X | | | | | X | | X | | | X |
| 12 36 23.13 - Plastic-Laminate-Clad Countertops | X | X | | X | X | | | | | X | | X | | | X |

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|--|--------------------------|---------|--------------|------------------------------------|--|-------------|--------------|--|-----------|--------------|-----------------------------|------------------------------------|-------------------------|--------------------------------|--------|
| 22 00 00 - General Mechanical Requirements | X | | X | X | X | | | | | X | X | X | | X | X |
| 22 40 00 - Plumbing | | | X | X | X | | | | | X | X | X | | | X |
| 22 80 00 - Ventilation | | | | X | X | | | | | X | X | X | | | X |
| 26 00 00 - General Electrical Requirements | | | X | X | | | | | | | | | | | |
| 26 20 00 - Electrical Work | | | | | X | | | | | | | X | | X | |
| 26 50 00 - Interior Lighting | | | | X | X | | | | | X | X | X | | | |
| 26 53 00 - Exterior Lighting | | | | X | X | | | | | X | X | X | | | |
| 31 11 00 - Clearing & Grubbing | | | | | | | | | | | | X | | X | |
| 31 20 00 - Earth Moving | | | | | | | | | X | | | X | | X | X |
| 31 23 01 - Excavation Backfill & Compaction for Structures | | | | | | | | X | X | | | | | | |
| 31 23 02 - Excavation Backfill & Compaction for Utilities | X | | | | | | | X | X | | | | | | X |

| Section No. - Title (List in numerical order of the Spec. Section No.) | Shop Drawings & Diagrams | Samples | Certificates | Mfr. Guaranty / Warranty (> 1 yr.) | Product Data, Mfr. Tech. Lit., Brochure | MSDS Sheets | Calculations | Reports (Tests, Maint., Inspection, etc.) | Test Plan | O & M Manual | Equipment / Fixture Listing | Schedules (Project / Installation) | Maint. Service Contract | Field Posted As-Built Drawings | Others |
|---|--------------------------|---------|--------------|------------------------------------|---|-------------|--------------|---|-----------|--------------|-----------------------------|------------------------------------|-------------------------|--------------------------------|--------|
| 31 23 03 - Excavation Backfill & Compaction for Pavement | | | | | | | | X | X | | | X | | X | |
| 32 35 00 - Slope Protection and Erosion Control | | | | | | | | X | | | | X | | X | |
| 32 11 00 - Paving Base Course | | | X | | | | | X | | | | X | | | |
| 32 12 00 - Asphalt Paving | | | X | | | | | X | | | | X | | | X |
| 32 14 41 - Grouted Rubble Paving | | | X | | | | | X | | | | X | | | |
| 32 15 00 - Aggregate Material | | | X | X | | | | | | | | X | | | |
| 32 16 00 - Curbs and Sidewalks | | | | X | | | | X | | | | X | | | |
| 32 17 23 - Pavement Markings | X | | | X | X | | | | | | | X | | | |
| 32 31 00 - Chain Link Fence & Gate | X | | | X | X | | | | | | | X | | | |
| 32 32 18 - Mortar & Masonry Grout | | | X | | | | | X | | | | | | | |

| Section No. - Title (List in numerical order of the Spec. Section No.) | Shop Drawings & Diagrams | Samples | Certificates | Mfr. Guaranty / Warranty (> 1 yr.) | Product Data, Mfr. Tech. Lit., Brochure | MSDS Sheets | Calculations | Reports (Tests, Maint., Inspection, etc.) | Test Plan | O & M Manual | Equipment / Fixture Listing | Schedules (Project / Installation) | Maint. Service Contract | Field Posted As-Built Drawings | Others |
|--|--------------------------|---------|--------------|------------------------------------|--|-------------|--------------|--|-----------|--------------|-----------------------------|------------------------------------|-------------------------|--------------------------------|--------|
| 32 32 19 – Unit Masonry Retaining Walls | | | X | | | | | | | | | X | | | X |
| 32 32 54 – Concrete rubble Masonry | | | X | | | | | | | | | X | | | |
| 33 44 00 – Storm Utility Water Drain | | | X | | X | | | | | | | X | | X | |

- B. Options: Identify options requiring selection by the Architect.
- C. Deviations and Additional Information: The Contractor shall notify the HPHA in writing, at time of submission, of any deviations in the submittals from the Contract requirements. On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by the Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
- D. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked with approval notation from the Architect's action stamp.
- E. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction,

and others as necessary for performance of construction activities. Show distribution on transmittal forms.

- F. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from the Architect's action stamp.
- G. Submittal Log: The furnishing of a submittal log does not relieve the Contractor of other submittals that may be required, but are not included on this list.
- H. Discrepancies: In the event of discrepancies between the Drawings and Specifications, the Contractor shall immediately notify the HPHA Engineer in writing. Work prior to such notification and before clarifying instructions can be issued is subject to removal and replacement at the expense of the Contractor.
- I. Safety Program
 - 1. General: The work under this contract is potentially hazardous. 10 calendar days after the Notice to Proceed, the Contractor shall submit, in writing, proposals for effectuating accident prevention and meet with the HPHA to discuss and develop mutual understandings relative to the administration of the overall safety program.
 - a. Safety Program: Submit a safety program conforming to the requirements of Federal, State, and local laws, rules and regulations.
 - b. Compliance Requirements: Comply with the latest editions of 29 CFR 1910, 29 CFR 1926 and Hawaii Occupational Safety and Health Standards, Hawaii Revised Statutes, Chapter 396.
 - c. Hazard Analysis: Submit for approval an Accident Prevention and an Activity Hazard Analysis.
 - d. Accident Plan Scope: The Accident Prevention Plan shall be job specific and implement in detail the safety requirements of the above publications.
 - e. Accident Plan Contents: The Activity Hazard Analysis shall be developed for each type of work and address the known hazards associated with the work and what controls will be implemented.
 - f. Hazardous Materials: Include a plan to deal with hazardous materials; the plan shall consist of:
 - 1) Inventory and MSD Sheets: An inventory of hazardous materials including quantity to be introduced to the site.

Submit to the HPHA, Material Safety Data Sheets for those materials prior to introducing materials to the site.

- 2) Protection Plan: Plan for protecting personnel and property during the transport, storage and use of the materials in accordance with applicable guidelines.
 - 3) Spill Response: Define in writing procedures for spill response and disposal in accordance with applicable guidelines.
2. Forms: Submit OSHA Form 200 or other forms that contain the same information for each. Submit forms for each of the following occurrences:
- a. Occupational Injury or Illness: Recordable occupational injury or illness (first aid cases not recordable) within six (6) days of an incident,
 - b. Lost Time or Property Damage Accident: Lost time accident or property damage \$1,000 or more resulting from job site accidents within six (6) days of an accident or incident.
 - c. Fatalities or Major Accidents: Notify the HPHA immediately by telephone of fatalities, major accidents resulting in five (5) or more hospitalized injuries or property damage/material losses over \$100,000 for each accident.

PART 2 – PRODUCTS

2.1 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.

Comply with the GENERAL CONDITIONS or other requirements. Furnish required submittals specified in this Section and in the Technical Sections. Submittals include one or more of the following: shop drawings, color samples, material samples, technical data, material safety data information, schedule of materials, schedules of operations, guarantees, certifications, operating and maintenance manuals, and field posted as-built drawings.

1. Provide a comprehensive list of the required submittals by Specification Section. Furnish this list to the HPHA Engineer within ten (10) calendar days after Notice to Proceed or upon earlier written instructions from the HPHA Engineer.
 - a. The listing shall indicate and include the following:

- 1) The number of copies required for submittal.
 - 2) Planned submittal date.
 - 3) Approval date required by the contractor.
 - 4) A space where the "date of submittal" can be inserted.
 - 5) A space where the "date of approval" can be inserted.
 - 6) A space where an "action code" can be inserted.
- b. The schedule shall accommodate a minimum of twenty five (25) calendar days for the HPHA's review.
- c. An updated listing shall be prepared and submitted to the HPHA Engineer at monthly intervals or as directed by the HPHA Engineer. The listing shall reflect all approvals received since the last update.
2. Shop drawings, descriptive sheets, samples and other submittals shall conform to the HPHA GENERAL CONDITIONS, Article 5.5 SHOP DRAWINGS AND OTHER SUBMITTALS.
 3. Submittals shall be presented in a clear and thorough manner. Submittals shall identify details by reference to Specifications, Contract Drawing Numbers, details, and schedules as shown on the contract drawings.
 4. Should submittals be unclear, vague or fail to identify and reference the contract documents, they shall be returned without comment. Any delay in the project due to improper or returned submittals shall be the Contractor's responsibility.
 5. All items requiring review and acceptance by the HPHA Engineer shall be submitted through the Contractor as part of the control of work. The Contractor shall review each item, verify that it conforms fully with the specifications and certify to that effect on the item or its transmittal before submitting the item to the HPHA Engineer. Items not certified or apparently not verified will be returned to the Contractor without further review by the HPHA Engineer until properly submitted. The Contractor will be responsible for any resulting costs or delays.
 6. All samples shall be of sufficient size and quantity to clearly illustrate functional characteristics of the product. The sample shall include all integrally related parts and attachment devices, and must show full range of color, texture and pattern.
 7. Action Submittals: Submit six (6) paper copies of each submittal unless otherwise indicated.
 8. Informational Submittals: Submit PDF electronic file of each submittal unless otherwise indicated.

9. **Certificates and Certifications Submittals:** Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - a. Provide a notarized statement on original paper copy certificates and certifications where indicated.
- B. **Product Data:** Collect information into a single submittal for each element of construction and type of product or equipment.
 1. Product data shall be clearly marked so that each copy identifies the pertinent products or models. Performance characteristics and capacities, dimensions and clearances required, wiring or piping diagrams and controls shall be clearly shown and marked. References to appropriate sections of the contract documents shall be provided.
 2. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
 3. Mark each copy of each submittal to show which products and options are applicable.
 4. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 5. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams showing factory-installed wiring.
 - b. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 6. Submit Product Data before or concurrent with Samples.
 7. **Shop Drawings:** Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
 - a. The Contractor shall review each item, verify that it conforms fully with the plans and specification and certify to that effect on the item or its transmittal before submitting the item to the Engineer. Items

not certified or apparently not verified will be returned to the Contractor without further review by the HPHA Engineer until properly submitted. The Contractor will be responsible for any resulting costs or delays.

- b. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - 1) Identification of products.
 - 2) Schedules.
 - 3) Compliance with specified standards.
 - 4) Notation of coordination requirements.
 - 5) Notation of dimensions established by field measurement.
 - 6) Relationship and attachment to adjoining construction clearly indicated.
 - 7) Seal and signature of professional engineer if specified.
8. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches (215 by 280 mm), but no larger than 22 by 34 inches.
9. Submit Shop Drawings in the following format:
 - a. PDF electronic file.
 - b. Six (6) opaque (bond) copies of each submittal.
- C. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
 1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Specification Section.
 - e. Specification paragraph number and generic name of each item.
 3. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 4. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or

product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

- a. Number of Samples: Submit six (6) sets of Samples.
 - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
- D. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
 1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
 2. Manufacturer and product name, and model number if applicable.
 3. Number and name of room or space.
 4. Location within room or space.
 5. Submit product schedule in the following format:
 - a. PDF electronic file.
- E. Contractor's Construction Schedule: Comply with requirements specified in Section 01320 "Construction Progress Documentation."
- F. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 01310 "Project Management and Coordination."
- G. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 01770 "Closeout Procedures."
- H. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person.
- I. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.

- J. **Manufacturer Certificates:** Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- K. **Product Certificates:** Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- L. **Material Certificates:** Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.

PART 3 - EXECUTION

3.01 SUBMITTAL REGISTER AND TRANSMITTAL FORM

- A. The Contractor shall use submittal register and transmittal forms as directed by the Project Engineer.
- B. The listing of required submittals within this Section is provided for the Contractor's convenience. Review the specification technical sections and prepare a comprehensive listing of required submittals. Furnish submittals to the HPHA Project Engineer for review.
- C. The Contractor shall separate each submittal item by listing all submittals in the following groups with the items in each group sequentially listed by the specification section they come from:
 - 1. Administrative
 - 2. Data
 - 3. Tests
 - 4. Closing
- D. The Contractor shall separate all different types of data as separate line items all with the column requirements.
- E. The Contractor shall send monthly updates and reconciled copies electronically to the Project Engineer and the Design Consultant in MS Word or MS Excel or other format as accepted by the HPHA Project Engineer.

3.02 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to the Architect.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of the Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.03 ARCHITECT'S ACTION

- A. Action Submittals: The Architect and the HPHA Project Engineer will review each submittal, make marks to indicate corrections or revisions required, and return it. The Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.
- B. Informational Submittals: The Architect and the HPHA Project Engineer will review each submittal and will not return it, or will return it if it does not comply with requirements. The Architect will forward each submittal to appropriate party.
- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from the Architect and the HPHA Project Engineer.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may be returned by the Architect without action.

END OF SECTION

SECTION 08 71 00

DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes:
1. Mechanical door hardware for the following:
 - a. Swinging doors.
- B. Related Sections:
1. Section 08 14 16 "Wood Doors"
 2. Section 08 11 66 "Security Screen Doors"

1.3 ACTION SUBMITTALS

- A. Submit under provision of Section 01330 SUBMITTAL PROCEDURES
- B. Product Data: For each type of product indicated. Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- C. Other Action Submittals:
1. Door Hardware Schedule: Prepared by or under the supervision of Installer, detailing fabrication and assembly of door hardware, as well as installation procedures and diagrams. Coordinate final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - a. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.
 - b. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents.
 - c. Content: Include the following information:
 - 1) Identification number, location, hand, fire rating, size, and material of each door and frame.
 - 2) Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.

- 3) Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
 - 4) Fastenings and other pertinent information.
 - 5) Explanation of abbreviations, symbols, and codes contained in schedule.
 - 6) Mounting locations for door hardware.
 - 7) List of related door devices specified in other Sections for each door and frame.
2. Keying Schedule: Prepared by or under the supervision of Installer, detailing the HPHA's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents. Provide keys for federal project as specified in 2.5(A)(7).

1.4 INFORMATIONAL SUBMITTALS

- A. Warranty: Special warranty specified in this Section.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Door Hardware: Five (5) full sets of Group A hardware (keyed to next five series, including keys) and 2 each of all other hardware.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and an Architectural Hardware Consultant who is available during the course of the Work to consult with Contractor, Architect, and the HPHA about door hardware and keying.
- B. Architectural Hardware Consultant Qualifications: A person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.
- C. Source Limitations: Obtain each type of door hardware from a single manufacturer.
- D. Means of Egress Doors: Latches do not require more than 15 lbf to release the latch. Locks do not require use of a key, tool, or special knowledge for operation.
- E. Accessibility Requirements: For door hardware on doors in an accessible route, comply with HUD's "Fair Housing Accessibility Guidelines".
1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
 2. Comply with the following maximum opening-force requirements:
 - a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf. applied perpendicular to door.

3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high and 3/4 inch high for exterior sliding doors.
 4. Adjust door closer sweep periods so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.
- F. Keying Conference: Conduct conference at Project site to comply with requirements in Section 01310 "Project Management and Coordination." In addition to the HPHA Project Engineer, the HPHA Inspector, AMP Management, and Contractor, conference participants shall also include Installer's Architectural Hardware Consultant. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 2. Preliminary key system schematic diagram.
 3. Requirements for key control system.
 4. Requirements for access control.
 5. Address for delivery of keys.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
- C. Deliver keys to manufacturer of key control system for subsequent delivery to the HPHA.

1.8 COORDINATION

- A. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- B. Security: Coordinate installation of door hardware, keying, and access control with the HPHA.
- C. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.

1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Structural failures including excessive deflection, cracking, or breakage.

- b. Faulty operation of doors and door hardware.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
2. Warranty Period: Three years from date of Project acceptance, unless otherwise indicated.

1.10 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools (including but not limited to bitting chart and control keys) and maintenance instructions for The HPHA's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Provide door hardware for each door as scheduled in Part 3.5 "Door Hardware Schedule" Article to comply with requirements in this Section.

2.2 HINGES

- A. Hinges: BHMA A156.1.
- 1. Basis-of-Design Product: Stanley CB191. Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. Baldwin Hardware Corporation.
 - b. Bommer Industries, Inc.
 - c. Hager Companies.
 - d. IVES Hardware; an Ingersoll-Rand company.
 - e. Lawrence Hardware Inc.
 - f. McKinney Products Company; an ASSA ABLOY Group company.
 - g. PBB, Inc.
 - h. Stanley Commercial Hardware; Div. of The Stanley Works.

2.3 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: As indicated in door hardware schedule.
- B. Lock Throw: Comply with testing requirements for length of bolts as follows:
- 1. Bored Locks: Minimum 1/2-inch latchbolt throw.
 - 2. Deadbolts: Minimum 1-inch bolt throw.
- C. Lock Backset: 2-3/4 inches unless otherwise indicated.
- D. Lock Trim: Schlage Satin Nickel

1. Description: Basis of design Levers: Schlage 4000 series, lever handle Elan.
 2. Escutcheons (Roses): Basis of design: Schlage Satin Nickel rose.
 3. Dummy Trim: Match lever lock trim and escutcheons.
 4. Operating Device: Lever with escutcheons (roses).
- E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.
- F. Bored Locks: BHMA A156.2; Grade 2; Series 4000.
1. Basis-of-Design Product: Schlage AL series. Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Best Access Systems; Div. of Stanley Security Solutions, Inc.
 - b. Corbin Russwin Architectural Hardware; n ASSA ABLOY Group Company.
 - c. Medeco Security Locks, Inc.; an ASSA ABLOY Group company.
 - d. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
 - e. Schlage Commercial Lock Division; an Ingersoll-Rand company.
 - f. Weiser Lock Corp.; a Black & Decker Corp. company.
 - g. Yale Security Inc.; an ASSA ABLOY Group company.
- G. Roller Latches: BHMA A156.16; Grade 1; rolling plunger that engages socket or catch, with adjustable roller projection.
1. Basis-of-Design Product: Stanley V1956 Ball Catch. Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Architectural Builders Hardware Mfg., Inc.
 - b. Baldwin Hardware Corporation.
 - c. Door Controls International, Inc.
 - d. IVES Hardware; an Ingersoll-Rand company.
 - e. Stanley Commercial Hardware; Div. of The Stanley Works.

2.4 LOCK CYLINDERS

- A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel.
 Manufacturer: Same manufacturer as for locking devices.
 Schlage Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
- a. Arrow USA; an ASSA ABLOY Group company.
 - b. ASSA, Inc.; An ASSA ABLOY Group Company.
 - c. Best Access Systems; Div. of Stanley Security Solutions, Inc.
 - d. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company.
 - e. Medeco Security Locks, Inc.; an ASSA ABLOY Group company.
 - f. SARGENT Manufacturing Company; an ASSA ABLOY Group company.
 - g. Schlage Commercial Lock Division; an Ingersoll-Rand company.
 - h. Yale Security Inc.; an ASSA ABLOY Group company.
- B. Standard Lock Cylinders: BHMA A156.5; Grade [2]; permanent cores that are interchangeable and removable; face finished to match lockset.

- C. Construction Master Keys: Provide cylinders with feature that permits voiding of construction keys without cylinder removal. Provide 10 construction master keys.
- D. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

2.5 KEYING

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference.
 - 1. Existing Master System to be replaced with new door and keys.
 - 2. All front and rear Unit doors and security doors' dead bolt, to be keyed alike and keyed to master.
 - 3. All water heater closets door to be keyed alike and keyed to master. (not keyed with unit locks)
 - 4. All locks on Community Center Locks to be on master system
 - a. Key Community room as individual unit
 - b. Key all Laundry doors alike.
 - c. Key Office as individual unit
 - d. Key Maintenance as individual unit
 - 5. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation on Master KEYS: "DO NOT DUPLICATE."
 - 6. Quantity: In addition to one extra key blank for each lock, provide the following:
 - a. Cylinder Change Keys: Four (4).
 - b. Master Keys: Six (6)
 - c. Unit keys: Six (6) each unit
 - d. Laundry: Four (4)
 - e. Community Room: Four (4)
 - f. Water heater closets: Four (4)

2.6 MECHANICAL STOPS AND HOLDERS

- A. Wall- Floor Mounted Stops: BHMA A156.16; satin nickel base metal.
 - 1. Basis-of-Design Product: Trimco 1270CX and 1204. Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Architectural Builders Hardware Mfg., Inc.
 - b. Baldwin Hardware Corporation.
 - c. Door Controls International, Inc.
 - d. Hager Companies.
 - e. Hiawatha, Inc.
 - f. IVES Hardware; an Ingersoll-Rand company.
 - g. Rockwood Manufacturing Company.
 - h. Stanley Commercial Hardware; Div. of The Stanley Works.
 - i. Trimco.

2.7 DOOR GASKETING, WEATHER- STRIPPING, Door Bottom

- A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
1. Basis-of-Design Product: Pemko Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Hager Companies.
 - b. M-D Building Products, Inc.
 - c. National Guard Products.
 - d. Pemko Manufacturing Co.; an ASSA ABLOY Group company.
 - e. Reese Enterprises, Inc.
 - f. Sealeze; a unit of Jason Incorporated.
 2. Door Bottom: Pemko 210-V, mill finish door shoe with rain drip edge.

2.8 THRESHOLDS

- A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.
1. Basis-of-Design Product: Pemko 171A Mill finish, Saddle threshold. Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Hager Companies.
 - b. M-D Building Products, Inc.
 - c. National Guard Products.
 - d. Pemko Manufacturing Co.; an ASSA ABLOY Group company.
 - e. Reese Enterprises, Inc.
 - f. Rixson Specialty Door Controls; an ASSA ABLOY Group company.
 - g. Sealeze; a unit of Jason Incorporated.

2.9 WIDE ANGLE PEEPHOLE

- A. Door viewer: Pre-fabricated wide angle viewer.
1. Basis of Design: Schalge 190 degree wide angle peephole viewer, 698-619 or approved equal.

2.10 FABRICATION

- A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rated labels and as otherwise approved by Architect.
1. Manufacturer's identification is permitted on rim of lock cylinders only.
- B. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18.

- C. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
 - 1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.

2.11 FINISHES

- A. Provide finishes complying with BHMA A156.18 as Satin Nickel 10B or 32D as indicated in door hardware schedule.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

3.2 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.
 - 1. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.

2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- D. Key Control System: Tag keys and provide to the HPHA.
- E. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 07 92 00 "Joint Sealants" on peal and stick sill flashing.
- F. Stops: Provide wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.
- G. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- H. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- I. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.3 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
- B. Occupancy Adjustment: Approximately six months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware. All keys to be tested accordingly to the units and accepted by the HPHA management staff.

3.4 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.5 DOOR HARDWARE SCHEDULE

Door schedule is for typical door types. Refer to drawings for notes on which doors in particular units have replacement doors and new hardware, and which existing doors receive only new hardware components. Note, provide all new hardware for new or replacement doors. Exterior existing doors to remain to receive new weather-stripping and hardware only unless otherwise noted on the plans.

GROUP A

Typical Front entry door, Community Center Office

| Item | Manufacturer | Product | Finish |
|-----------------|---------------------|---------------|-------------|
| Threshold. | Pemko | 171A | Mill Finish |
| Door shoe | Pemko. | 210_V | Mill finish |
| Wall Bumper | Trimco wall | 1270CX & 1204 | 626 |
| Lever | Schlage | F10 ELA | 626 |
| Dead Bolt | Schlage | B60N | 626 |
| Hinges | Stanley | CB191 3.5in | 32D |
| Door Viewer | Schlage | 698-619 | 626 |
| Door Kick plate | Stanley | V1994 | 32D |
| Door Gasket | Pemko | AM44 | BL |
| Lever lock | Schlage | F10 ELA | 626 |
| SS Rosette | Prime Line Products | U10677 | 32D |

GROUP B

Typical Rear entry door, Exterior doors at Community Center (other than office)

| Item | Manufacturer | Product | Finish |
|--------------|--------------|-----------------|-------------|
| Threshold. | Pemko | 171A | Mill Finish |
| Door shoe | Pemko. | 210_V | Mill finish |
| Bumper | Trimco wall | 1270CX & 1204 | 626 |
| Lever | Schlage | F10 ELA | 626 |
| Dead Bolt | Schlage | B60N | 626 |
| Hinges (3ea) | Stanley | CB191NRP 3.5 in | 32D |
| Kick Plate | Stanley | V1996 | 32D |
| Gasket | Pemko | AM44 | GR |

Site and Dwelling Improvements to Kahale Mua, HA 1088 (FEDERAL)
 And Site Improvements to Kahale Mua, HA 2205 (STATE)

DOOR HARDWARE

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(REV – ADDENDUM 1) 08 71 00 - 10

| | | | |
|--|--------|------|-----|
| Surface Mount Flush Bolt For Community Center Double door (2ea.) | Trimco | 4876 | 613 |
|--|--------|------|-----|

GROUP C

Typical water heater closet doors

| ITEM | MANUFACTURER | PRODUCT | FINISH |
|---------------|--------------|-------------|--------|
| Threshold | Pemco | 171A | mill |
| Door Shoe | Pemco | 216 | mill |
| Latch | Stanley | F51 LAT | 626 |
| Hinges (3 ea) | Stanley | CB191 3.5in | 32D |

GROUP D

For Interior rehab units: 17, 18A, 18B, 19B, 22C, 23B, 24A (typical interior door match existing passage or privacy functions)

| Item | Manufacturer | Product | Finish |
|-----------------------------|--------------|---------------|--------|
| Hinges | Stanley | CB191 3.5in | 32D |
| Passage Lockset (closet) | Schlage | F 10ELA | 626 |
| Privacy Lock (bedroom/bath) | Schlage | F 40ELA | 626 |
| Bumper | Trimco wall | 1270CX & 1204 | 626 |
| Ball Catch | Stanley | 716 | 626 |

GROUP E

Interior doors at Community Center (Bldg 25)

| LOCATION | ITEM | MANUFACTURER | PRODUCT | FINISH |
|----------------------------------|------------------|--|---------|--------|
| ADA MENS & WOMEN'S REST ROOMS | LEVER privacy | - SCHLAGE | F51 LAT | 626 |
| ADA MENS & WOMEN'S REST ROOMS | KICK PLATE | STANLEY | V1996 | 32D |
| ADA MENS & WOMEN'S REST ROOM | THRESHOLD | EXISTING ADA COMPLIANT TO REMAIN | STONE | POLISH |

Site and Dwelling Improvements to Kahale Mua, HA 1088 (FEDERAL)
And Site Improvements to Kahale Mua, HA 2205 (STATE)

HPHA Job No. 09-042-000-S
IFB-CMB-2016-11

DOOR HARDWARE
(REV - ADDENDUM 1) 08 71 00 - 11

| | | | | |
|--------------------|--------------|-------------|---------------|-----|
| NEW INTERIOR DOORS | HINGES (3EA) | STANLEY | CB191 3.5in | 32D |
| NEW INTERIOR DOORS | KEY LOCK | STANLEY | F51 LAT | 626 |
| NEW INTERIOR DOORS | BUMPER | TRIMCO WALL | 1270CX & 1204 | 626 |

END OF SECTION