

STATE OF HAWAII

DEPARTMENT OF HAWAIIAN HOME LANDS 91-5420 Kapolei Parkway, Kapolei, HI. 96707

Bidding & Contract Requirements

FOR

FURNISHING LABOR AND MATERIALS FOR

Kanakaloloa Cemetery Improvements

Hoolehua, Molokai, Hawaii

TAX MAP KEY: (2) 5-2-017:003

IFB NO.: IFB-16-HHL-011

May 2015



Department of Hawaiian Home Lands - Land Development Division SIGN-IN SHEET

| IFB-16 -HHL-011 | This project consists of furnishing all labor, equipment and supervision to satisfactorily construct a new pavilion, boundary wall, paved road, parking lot, and water line at the Kanakaloloa Cemetery, Kanakaloloa, Hoolehua, Island of |
|-----------------|---|
| | Molokai, County of Maui, Hawaii |

INSTRUCTIONS

Read this packet carefully. If you have any questions, please call James Richardson, LDD Project Manager, at 808-620-9282 or email to Jeffrey.y.fujimoto@hawaii.gov

Note: Please fax this sheet to 620-9299, mail or email to <u>kehaulani.a.quartero@hawaii.gov</u> after downloading this document from the Department of Hawaiian Home Lands website.

| Pre-Bid | Date: May 11, 2016 | | | |
|-------------------------------|-----------------------------|--|--|--|
| Conference/Site | Time: 9:00 am | | | |
| Inspection: | Location: Kanakaloloa C | emetery, Kanakaloloa, Hoolehua, Molokai | | |
| | Date: May 20, 2016 | | | |
| Notice of Intention to | Time: 2:00 pm | | | |
| Bid must be received | Location: 91-5420 Kapol | ei Parkway, Kapolei, HI 96707 | | |
| by: | Submittal of a Notice of Ir | ntention to Bid via facsimile at (808)620-9299 or email to | | |
| · | james.c.richardson@haw | aii.gov is acceptable. | | |
| D'I Off E | Date: June 1, 2016 | | | |
| Bid Offer Form | Time: 2:00 pm | | | |
| due: | * | ei Parkway, Kapolei, HI 96707 | | |
| | | Time: 2:00 pm | | |
| Dilo : | Date: June 1, 2016 | Location: Hale Kalanianaole | | |
| Bid Opening: | | 91-5420 Kapolei Parkway | | |
| | | Kapolei, HI 96707 | | |
| | | • | | |
| | | Date: | | |
| Company: | | | | |
| Address: | | | | |
| | | | | |
| | | | | |
| Phone No. | Phone No. Cell No. | | | |
| | | | | |
| Fax No. | | | | |
| Email Address: | | | | |
| Contact Person: | | | | |

Signature of Person Downloading Packet (Print Name & Title after signature)

NOTICE TO BIDDERS INVITATION FOR BID

Department of Hawaiian Home Lands Land Development Division

IFB NO.: IFB-16-HHL-011

SEALED BIDS for IFB No.: IFB-16-HHL-011, KANAKALOLOA CEMETERY IMPROVEMENTS Kanakaloloa, Hoolehua, Island of Molokai, County of Maui, State of Hawaii, T.M.K. (2) 5-2-017:003, will be received by the Department of Hawaiian Home Lands (DHHL), at 91-5420 Kapolei Parkway, Kapolei, Hawaii 96707, until 2:00 p.m., Hawaii Standard Time (H.S.T.), June 1, 2016 at which time all bids will be publicly opened and read aloud. Bids received after the time fixed for opening or delivered anywhere other than as specified above will not be considered.

This project consists of furnishing all labor, equipment and supervision to satisfactorily construct a new pavilion, boundary wall, paved road, parking lot, and water line. The cemetery will also be expanded to the north to include additional plots. The pavilion will be a .01 ha (1,250 sq. ft.) open structure just west of Lihi Pali Avenue that will offer visitors shelter from the elements and space to hold gatherings. Footings for the structure are not expected to exceed 1.2 m (4 ft.) deep. The boundary wall will provide a protective barrier around the perimeter of the cemetery, which is currently open to Lihi Pali Avenue. The proposed wall would extend from the existing Ho'olehua Veteran's Cemetery to an existing fence line that cuts through the parcel. It would consist of a .9-1.2 m (3-4 ft.) high stacked basalt rock wall along the eastern side of the property. The paved road and parking lot will include paving of existing unimproved paths within the cemetery. This will help prevent erosion and muddy conditions. The pavement would extend approximately 3.7 m (12 ft.) wide, with entry/exit at Lihi Pali Avenue, and two turnaround areas provided. The parking lot will be located near the proposed pavilion. There is currently no potable water on site, and the new water line will extend an existing line that is currently used for landscape irrigation. The new line will run to the proposed pavilion to provide water for flowers and other plants placed on the graves, as well as cleaning from landscaping activities. Excavations for the water line are not expected to exceed 1.2 m (4 ft.) deep. Additional grave plots are planned for the north and west sides of the parcel, Grave depths will be approximately 1.8 m (6 ft.)

To be eligible to submit a bid, the Bidder and/or his subcontractors shall possess all required valid State of Hawaii licenses and specialty licenses needed to perform the work for this Invitation for Bids (IFB).

This project is subject to Section 103D, Hawaii Revised Statutes, and to the payment of not less than the prevailing salaries and wages promulgated by the State of Hawaii, Department of Labor and Industrial Relations.

Bid documents may be obtained from DHHL at the Department of Hawaiian Home Lands website: http://www.dhhl.hawaii.gov/procurement/

There is no fee assessment to download the IFB documents from the DHHL website. It is the responsibility of Interested Bidders to check the DHHL website for any addenda issued by DHHL.

A PRE-BID CONFERENCE, followed by a SITE INSPECTION will be held from 9:00 a.m., H.S.T., on May 11, 2016, at the Kanakaloloa Cemetery, Kanakaloloa, Hoolehua, Island of Molokai. Prospective bidders are strongly encouraged to attend the conference, which is an opportunity for them to ask questions about the contractual requirements, site conditions, and technical aspects of the project. Prospective bidders needing special accommodations may submit such requests to James C. Richardson, Project Manager, Land Development Division via facsimile at (808) 620-9282, or Email: james.c.richardson@hawaii.gov.

A written NOTICE OF INTENTION TO BID is required and shall be received by the DHHL, Land Development Division, at 91-5420 Kapolei Parkway, Kapolei, Hawaii 96707, no later than 2:00 p.m. (H.S.T.), May 20, 2016. You may submit your NOTICE OF INTENTION TO BID via facsimile at: (808) 620-9299, or E-mail to: james.c.richardson@hawaii.gov.

A properly executed and notarized STANDARD QUALIFICATION QUESTIONNAIRE FOR OFFERORS, SPO Form-21 ("Questionnaire") is required and shall be submitted to the DHHL no later than 4:00 p.m. (H.S.T), May 20, 2016. Completed Questionnaires may be E-mailed to: james.c.richardson@hawaii.gov. The Questionnaire can be downloaded at the State Forms Central website:

http://hawaii.gov/forms/state-procurement-office.

Bids shall comply with the requirements of the IFB. Bids that do not comply with the IFB may be subject to disqualification. DHHL reserves the right to amend the IFB by written addenda, to reject any and all bids, or to waive any defects in said bids where DHHL deems it is in the best interest of the State.

CAMPAIGN CONTRIBUTIONS BY STATE AND COUNTY CONTRACTORS PROHIBITED. If awarded a contract in response to this solicitation, Offeror agrees to comply with HRS §11-355, which states that campaign contributions are prohibited from a State and County government contractor during the term of the contract if the contractor is paid with funds appropriated by the legislative body between the execution of the contract through the completion of the contract.

Questions regarding this project may be directed in writing to James C. Richardson, Project Manager, Land Development Division, DHHL, 91-5420 Kapolei Parkway, Kapolei, Hawaii 96707, via facsimile at (808) 620-9299, or E-mail: james.c.richardson@hawaii.gov.

Dated at Kapolei, Hawaii, this 28th day of April, 2016

DEPARTMENT OF HAWAIIAN HOME LANDS

Jobie M. K. Masagatani, Chairman Hawaiian Homes Commission

Posted on the internet at: http://spo3.hawaii.gov/notices/notices/notices/

NOTICE OF INTENTION TO BID

| | | Date: |
|--|---|---|
| Ms. Jobie M.K. Mas Hawaiian Homes Co DEPARTMENT OF 91-5420 Kapolei Pa Kapolei, Hawaii 96 | ommission F HAWAIIAN HOME rkway | LANDS |
| Attention: | | Land Development Division to Bid due 2:00 p.m., June 1, 2016. |
| Gentlemen: | | |
| Administrative Rule HHL-011, Kanakalo | es 3-122-111, it is the in ploa Cemetery Improve | tion 103D-310, Hawaii Revised Statutes and Hawaii ntention of the undersigned to bid on IFB No. IFB-16-ements, Hoolehua, Molokai, County of Maui, State of 2:00 p.m., June 1, 2016. |
| Nam | e of Firm | Contractor's License No. |
| Address | | Hawaii General Excise Tax No. |
| City, State and Zip Code | | Telephone No. / Facsimile No. |
| | | e-mail address |
| | | Respectfully submitted, |
| | | Signature |
| | | Print Name and Title |
| Gentlemen: | | Date: |
| | nent of Hawaiian Homo on IFB-16-HHL-011. | e Lands acknowledges on this date above, your Notice |
| | | Johie M. K. Masagatani, Chairman |

Jobie M. K. Masagatani, Chairman Hawaiian Homes Commission

SAMPLE

STATE OF HAWAII

STANDARD

QUALIFICATION QUESTIONNAIRE

FOR

OFFERORS

issued by the

PROCUREMENT POLICY BOARD

STATE OF HAWAII

June 16, 2003

To be filed with the procurement officer calling for offers in accordance with Section 103D-310, HRS, as amended.

| Submitted By | | | | | |
|--------------|--|--|--|--|--|
| Address | | | | | |
| Date | | | | | |
| Date | | | | | |

STANDARD QUALIFICATION QUESTIONNAIRE

COVERING EXPERIENCE, EQUIPMENT AND FINANCIAL STATEMENT OF OFFERORS. THE OFFICER CALLING FOR OFFERS MAY REQUIRE THE OFFEROR TO FURNISH ADDITIONAL INFORMATION NOT SPECIFICALLY COVERED HEREIN. ALL ITEMS MUST BE ANSWERED AND OMISSIONS MAY BE CONSIDERED GOOD CAUSE FOR UNFAVORABLE CONSIDERATION.

GENERAL INFORMATION

| 1. | The statements contained in this Questionnaire are being furnished for consideration in submitting an offer the following project: | | | | |
|----|--|--------------|----------------------------------|--|--|
| | (a) Project Title | | | | |
| | (b) Location | | | | |
| | (c) Bid Opening Date | | | | |
| 2. | The Questionnaire is being submitted in behalf of: | П | A Composition | | |
| | (a) Name of Offeror | - | A Corporation A Partnership | | |
| | | | An Individual A Joint-Venture | | |
| | (b) Address | | | | |
| | (c) Telephone No | | | | |
| | (d) Date Submitted | | | | |
| 3. | If the bid is submitted by a joint venture, composed of two or more individual firm comprising the joint venture must submit all information listed on pages 3 through Questionnaire and, in addition, answer the following: | | | | |
| | (a) Members of joint Venture | | | | |
| | (b) Date of Joint Venture Agreement | | | | |
| | c) Is agreement between members comprising the joint venture joint and several liability? If not, state the terms of agreement in this respect: | | | | |
| | | | | | |
| | | | | | |

EXPERIENCE QUESTIONNAIRE

| Su | □ A Corporation ubmitted by □ A Partnershi | | | | | | |
|----|--|---------------------------|-------------------------|--|--|--|--|
| Рr | Principal Office | | | | | | |
| | The signatory of this questionnaire guarantees the truth and accuracy of all statements and of all answers to interrogatories hereinafter made | | | | | | |
| 1. | How many years has your organization been in business as a [General Contractor] under your present business name? | | | | | | |
| 2. | | | | | | | |
| 3. | Show what [contabulation: | nstruction] projects your | organization has comple | eted in the past five (5) years in the following | | | |
| (| Contract Amt. | Class of Work | When Completed | Name and Address of Owner | | | |
| | | | | | | | |
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| 4. | why? | | | If so, state when, where and | | | |
| | | | | | | | |

| nerefore |
|---|
| Ias any officer or partner of your organization in the past five (5) years failed to complete a contract handled in his wn name? If so, state name of individual, name of Owner and reason therefore. |
| n what other lines of business are you financially interested? |
| for what corporations or individuals in the past five (5) years have you performed work, and to whom do you efer? |
| for what counties within the State of Hawaii have you performed work and to whom do you refer? |
| for what Bureaus or Departments of the State government have you performed work and to whom do you refer? |
| Iave you performed work for the U. S. Government? If so, when and to whom do you refer? |
| |

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13. What is the [construction] experience of the principal individuals of your organization?

| Individual's Name | Present Position or Office | Years of Work Experience | Magnitude and Type of Work | In What Capacity? |
|-------------------|----------------------------|--------------------------------|----------------------------|----------------------|
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EQUIPMENT QUESTIONNAIRE

| Su | bmitted by | DA Partnership | | | | | |
|----|---|---------------------------|--|--|--|--|--|
| Pr | incipal Office | □ An Individual | | | | | |
| Th | he signatory of this questionnaire guarantees the truth and accuracy of all statements and of all answers to interrogatories hereinafter made | | | | | | |
| 1. | In what manner have you inspected this proposed work? Explain in detail. | | | | | | |
| 2. | Explain your plan or layout for performing the proposed work. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 3. | The work, if awarded to you, will have the personal supervision of whom? | | | | | | |
| 4. | Do you intend to do the hauling on the proposed work with your own force? and type of equipment to be used | If so, give amount | | | | | |
| 5. | If you intend to sublet the hauling or perform it through an agent, state amount of sub-contract, and, if known, the name and address of sub-contractor or agent, amount and financial responsibility | type of his equipment and | | | | | |
| (| | IC · · · · · · · · · | | | | | |
| 6. | Do you intend to do grading on the proposed work with your own forces?equipment to be used | | | | | | |

| 7. | contract | t, and, if known, the | grading or perform it through an a | ctor or agent, | amount and t | ype of his equipment and |
|-----|--------------------------|--|--|----------------|--|--|
| 8. | Do you contract financia | intend to sublet and, and, if known, the | y other portions of the work?e name and address of the sub-cor | ntractor, amou | If some of the second s | so, state -amount of sub- f his equipment and |
| 9. | From w | hich sub-contractor | rs or agents do you expect to requ | ire a bond? | | |
| 10. | What ed | quipment do you ov | vn that is available for the propos | ed work? | | |
| Qua | antity | Item | Description, Size, Capacity, | Condition | Years of | Present Location |
| | | | Etc. | | Service | |
| | | | | | | |
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11. What equipment do you intend to purchase for use on the proposed work, should the contract be awarded to you?

| Quantity | Item | Description, Size, Capacity, Etc. | Approximate Cost | | | |
|---|------|---------------------------------------|------------------|--|--|--|
| | | | | | | |
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| | | | | | | |
| 12. How a | | ay for the equipment to be purchased? | | | | |
| | | | | | | |
| 13. Do you propose to rent any equipment for this work? If so, state type, quantity and reasons for renting | | | | | | |
| | | | | | | |
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FINANCIAL STATEMENT

| Submitted by | A Corporat | nip |
|--|-------------|-------|
| Principal Office | An Individu | a a l |
| The signatory of this questionnaire guarantees the truth and accuminterrogatories hereinafter made | | rs to |
| BALANCE SH | неет | |
| As of | | |
| A3 01 | , 20 | |
| <u>Assets</u> | | |
| Current assets: Cash and cash equivalents (1) Short-term investments (2) Accounts receivable, net (3) Inventories (4) Costs and estimated earnings in excess of billings on uncompleted contracts (5) Prepaid expenses and other (6) Sub-Total Current Assets Property and equipment: | \$ | |
| Land (7) Buildings (8) Vehicles, machinery and equipment (9) Furniture and fixtures (10) Less accumulated depreciation Sub-Total Net Property and Equipment | |) |
| Other assets: Cash surrender value of life insurance policies (11) Deposits and other (12) Sub-Total Other Assets | | |
| Total Assets: | \$ | |

BALANCE SHEET (Continued)

Liabilities and Stockholder's Equity

| Current liabilities: | |
|--|----|
| Current portion of long-term debt (1) | \$ |
| Accounts payable (2) | |
| Billings in excess of costs and estimated earnings | |
| on uncompleted contracts (3) | |
| Accrued liabilities and other (4) | |
| Sub-Total Current Liabilities | |
| Long-term debt, net of current portion (5) | |
| Sub-Total Liabilities & Long-term Debt: | \$ |
| Stockholder's equity: | |
| Capital stock (6) | |
| Additional paid-in capital (7) | |
| Retained earnings | |
| Treasury stock (8) | () |
| Sub-Total Stockholder's Equity | \$ |
| Total Liabilities and Stockholder's Equity | \$ |

DETAILS RELATIVE TO ASSETS

| (1) | Cash and cash equivalents | : | | | | | | |
|-----|---|-----------------|-------------|------------------|-----------------|-------------|----|---------------------------------|
| | Financial Institut | | | | | | | Amount |
| (2) | Short-term investments: Type of Security | \$ | <u>st</u> | | | | \$ | Estimated Fair Value |
| | | \$ | \$ | | \$ = | | \$ | |
| (3) | Accounts receivable (list r | major debtors): | | | | | | |
| | Completed contracts | | | | | | | |
| | | Description | | Completion Date | | A | \$ | Amount Receivable |
| | | | | | \$_ | | | |
| | Other than completed con- | racts | | | | | | |
| | <u>Name</u> | Description | | | <u>Due</u> | <u>Date</u> | | Amount Receivable |
| | Less allowance for doub | tful accounts | | | | | | () |
| (4) | Inventories | | | | | | = | |
| | Description | | \$ <u>-</u> | Cost | <u>M</u> \$_ | arket Value | | Lower of Cost r Market Value |
| | | | | | | | \$ | |

DETAILS RELATIVE TO ASSETS (Continued)

| (5) | <u>Name</u> | estimated earnings <u>Description</u> | Completion\$ | Contract Amount | ompleted contra Costs and Estimated Earnings to Da \$ | ate | Billings to Date | Costs and Estimated Earnings in Excess of Billings |
|------|-------------|---------------------------------------|--------------|-----------------|--|-----|---------------------|--|
| (6) | | penses and other | | \$ | \$ | \$_ | | \$ |
| | | | | | _ | | \$ | Amount |
| | | | | | | | | |
| (7) | Land | | | | | | | |
| | | <u>Description</u> | | | | | \$ | Amount |
| | | | | | | | <u> </u> | |
| (8) | Buildings | | | | | | Ψ | |
| | <u>D</u> | Description | | | | | | Amount |
| | | | | | | | <u> </u> | |
| (9) | Vehicles, r | nachinery and equ | ipment | | | | , | |
| | | | Description | <u>on</u> | | | \$ | Amount |
| | | | | | | | <u> </u> | |
| (10) | Furniture a | and fixtures | Description | | | | \$ | <u>Amount</u> |
| | | | | | | | | |

DETAILS RELATIVE TO ASSETS (Continued)

| (11) Cash surrender value of I | ife insurance policies | | D-:41L- | | |
|--------------------------------|------------------------|----------------------|----------------------------------|----------|---------------|
| Key Employee | Insurance Company | Policy <u>Amount</u> | Paid-Up Additional Insurance \$ | \$ | CSV Amount |
| Less loans payable | | \$ | \$\$ | | (|
| (12) Deposits and other | | | | | |
| | <u>Description</u> | | _ | \$ | Amount |
| | | | | _ | |
| | | | | <u>_</u> | |

DETAILS RELATIVE TO LIABILITIES AND STOCKHOLDER'S EQUITY

| (1) | Current portion | n of long-term debt (maturing | g within 12 | months |) | | | |
|-----|-----------------|-------------------------------|-------------|----------------------------|------------|--------------------------------------|-----------------|--|
| | <u>Lender</u> | Description | | Security Pledged | | <u>Due Date</u> | _ \$_ | Amount |
| | | | | | | | | |
| (2) | Accounts paya | able (list major creditors) | | | | | \$ ₌ | |
| | <u>Name</u> | | | | \$_ | Past Due <u>Amount</u> | \$ | Amount |
| | | | | | \$ <u></u> | | \$ | |
| (3) | Billings in exc | ess of costs and estimated ea | rnings on u | ncomple | eted co | ntracts | | |
| | <u>Name</u> | | | Contract Amount | Est | its and imated Billings to Date to D | | Billings in excess of costs and Estimated Earnings |
| | | | \$ <u></u> | | \$ | \$\$ | | \$ |
| (4) | Accrued liabil | ities and other | | | | | | |
| | | <u>Description</u> | <u>on</u> | | | | \$_ | Amount |
| | | | | | | | - - \$_ | |
| (5) | Long-term deb | ot, net of current portion | | | | | | |
| | <u>Lender</u> | Description | | Security <u>Pledged</u> | | <u>Due Date</u> | _ \$_ | Amount |
| | | | | | | | | |

DETAILS RELATIVE TO LIABILITIES AND STOCKHOLDER'S EQUITY (Continued)

| (6) Capital stock | | | | | | | | | |
|--------------------|-------------|--------------|---------------------------------|--|----------------|-----------|----------|-----------|---------------|
| Type of S | Stock | <u>Class</u> | No. of Shares <u>Authorized</u> | No. of Shares Issued and Outstanding | <u>]</u> \$ | Par Value | <u>}</u> | <u>Ar</u> | <u>nount</u> |
| | | | | | _ | | | | |
| | | | | | | | | \$ | |
| (7) Additional pai | d-in capita | al | <u>Description</u> | | | | \$_ | A | <u>Amount</u> |
| | | | | | | | | | |
| | | | | | | | \$_ | | |
| (8) Treasury stock | | | | | | | | | |
| Type of S | Stock_ | | <u>Class</u> | | lo. of hares | | \$_ | <u>(</u> | <u>Cost</u> |
| | | | | | | | <u> </u> | | |

STATEMENTS OF INCOME AND RETAINED EARNINGS

| For the Years Ended | | 0 and 20 | - |
|--|----|----------|---|
| | 20 | 20 | |
| Contract revenues | \$ | \$ | |
| Costs of contracts Gross income from contracts | | | |
| General and administrative expenses Income from operations | | | _ |
| Other income (expense) Income before income taxes | | | _ |
| Income taxes Net income | | | _ |
| Retained earnings, beginning of the year | | | _ |
| Retained earnings, end of the year | \$ | \$ | = |

| If a corporation, answer this: | If a partnership, answer this: | |
|---|--|---|
| Capital paid in cash, \$ | Date of organization | |
| When Incorporated | Date registered in Hawaii | |
| In what State | State whether partnership is general or limited | d |
| Date registered in Hawaii | | |
| President's name | Name and address of partners: | Age |
| Vice-President's name | | |
| Secretary's name | | |
| Treasurer's name | | |
| | | |
| | | |
| | | _ |
| The undersigned hereby declares: that the fore partnership or corporation herein first named, as of the inducing the party to whom it is submitted to award therein named is hereby authorized to supply such party | the offeror a contract; and that any depository, vend | e express purpose of dor or other agency ent. |
| NOTE: A partnership must give firm name and signs of all partners. A corporation must give full corp name, signature of official, and affix corporate seal. | | |
| Affi | davit for Individual | |
| STATE OF HAWAII | | |
| COUNTY OF | | |
| | haina dala annon danaara and aan | - 4b -4 4b - 6i |
| financial statement, taken from his books, is a true and acc answers to the foregoing interrogatories are true. | being duly sworn, deposes and says urrate statement of his financial condition as of the date t | thereof and that the |
| Sworn to before me this | (Applicant must also sign | n here) |
| day of 20 | _ | |
| Notary P | rublic | |
| Affid | lavit for Partnership | |
| STATE OF HAWAII | r | |
| COUNTY OF | | |
| mankar of the firm of | being duly sworn, deposes and | d says that he is a |
| member of the firm of with the books of the said firm showing its financial condifirm, is a true and accurate statement of the financial co foregoing interrogatories are true. | tition: that the foregoing financial statement, taken from sondition of the said firm as of the date thereof and tha | the books of the said to the answers to the |
| Sworn to before me this | (Members of firm must a | lso sign here) |
| day of20 | | |
| | _ | |
| Notary Public | | |
| Affid | lavit for Corporation | |
| STATE OF HAWAII | and the composition | |
| COUNTY OF | | |
| | om the books of the said corporation, is a true and accu- | the corporation, showing its financial arate statement of the |
| | | |
| Sworn to before me this | (Officer must also sign he | ere) |
| day of 20 | | |
| | | |
| Notary Public | | |

Instructions for Bid Submittal

General Instructions for Bid Submittal

The bid offer form must be completed and submitted to the DHHL by the required due date and time, and in the form prescribed by the DHHL. Electronic mail and facsimile transmissions shall not be accepted.

For your convenience, an "IFB Checklist for Bidders" is included in this section for your use.

No supplemental literature, brochures or other unsolicited information should be included in the bid packet.

A written response is required for each item unless indicated otherwise.

Bid documents and all certifications should be written legibly or typed and completed with black ink.

I. PROPOSAL REQUIREMENTS AND CONDITIONS

A. QUALIFICATION OF BIDDERS.

Prospective Bidders must be capable of performing the work for which bids are invited, and must be capable of entering into a public contract of \$25,000 (twenty-five thousand dollars) or more.

B. NOTICE OF INTENTION TO BID

- 1. In accordance with Section 103D-310, Hawaii Revised Statutes, and Section 3-122-108, Hawaii Administrative Rules, a written notice of intention to bid must be submitted to the Chairman, who is the officer charged with letting the contract. The notice may be faxed, hand carried or mailed to the office indicated in the Notice to Contractors.
- 2. The written notice must be received by the office indicated in the Notice to Contractors no later than 2:00 p.m. on the 10th calendar day prior to the day designated for opening bids. If the 10th calendar day prior to the day designated for opening bids is a Saturday, Sunday, or legal State holiday, then the written notice must be received by the Department no later than 2:00 p.m. on the last working day immediately prior to said Saturday, Sunday, or legal State holiday. The written notice will be time stamped when received by said office. The time designated by the time stamping device in said office shall be official. If the written notice is hand carried, then the bearer is responsible to ensure that the notice is time stamped by said office. If the notice is faxed, the time of receipt by the Department fax machine shall be official.
- 3. It is the responsibility of the prospective Bidder to ensure that the written notice of intention to bid is received in time and the Department assumes no

- responsibility for failure of timely delivery caused by the prospective Bidder or by any method of conveyance chosen by the prospective Bidder.
- 4. If two (2) or more prospective Bidders desire to bid jointly as a joint venture on a single project, they must file an affidavit of joint venture with their notice of intention to bid. Such affidavit of joint venture will be valid only for the specific project for which it is filed. No further license is required when all parties to the joint venture possess current and appropriate contractor's licenses. Joint ventures are required to be licensed in accordance with Chapter 444 of the Hawaii Revised Statutes, as amended, and the rules and regulations of the Contractor's License Board when any party to the joint venture agreement does not hold a current or appropriate contractor's license. The joint venture must have registered with the office of the Director of Commerce and Consumer Affairs in accordance with Chapter 425 of the Hawaii Revised Statutes, as amended.
- 5. No persons, firm or corporation may bid where (1) the person, firm, or corporation, or (2) a corporation owned substantially by the person, firm, or corporation, or (3) a substantial stockholder or an officer of the corporation, or (4) a partner or substantial investor in the firm is in arrears in any payment owed to the State of Hawaii or any of its political subdivisions or is in default of any obligation to the State of Hawaii or to all or to any of its political subdivisions, including default as a surety or failure to perform faithfully and diligently any previous contract with the Department.

C. STANDARD QUALIFICATION QUESTIONNAIRE FOR OFFERORS

1. Prospective Bidders shall submit answers to questions contained in the STANDARD QUALIFICATION QUESTIONNAIRE FOR OFFERORS (SPO Form-21), properly executed and notarized, setting forth a complete statement of the experience of such prospective Bidder and its organization in performing similar work and a statement of the equipment proposed to be used, together with adequate proof of the availability of such equipment, no later than 2:00 p.m. on the tenth calendar day prior to the day designated for opening bids. If the tenth calendar day prior to the day designated for opening bids is a Saturday, Sunday, or legal State holiday, then the questionnaire must be received by the Department no later than 2:00 p.m. on the last working day immediately prior to said Saturday, Sunday, or legal State holiday. The questionnaire will be time stamped when received by said office. The time designated by the time stamping device in said office shall be official. If the questionnaire is hand carried, then the bearer is responsible to ensure that the notice is time stamped by said office. E-mail and facsimile (FAX) transmissions are not acceptable in whole or in part, under any circumstances. If the information in the questionnaire proves satisfactory, the Bidder's proposal will be received. All information contained in the answers to the questionnaire shall be kept confidential. The questionnaire will be returned to the Bidder after it has served its purpose.

- 2. If upon review of the Questionnaire, or otherwise, the Bidder appears not fully qualified or able to perform the intended work, the Chairman shall, after affording the Bidder an opportunity to be heard and if still of the opinion that the Bidder is not fully qualified to perform the work, refuse to receive or to consider any bid offered by the prospective Bidder.
- 3. Failure to complete and submit the prequalification questionnaire by the designated deadline will be sufficient cause for the Department to disqualify a prospective Bidder.

D. PROPOSAL FORM

- 1. Prospective Bidders are being furnished with the proposal form giving the location, description, and the contract time of the work contemplated for which a lump sum bid price is asked or containing a schedule of items, together with estimated quantities of work to be performed and materials to be furnished, for which unit bid prices and/or lump sum bid prices are asked.
- 2. All papers bound with or attached to the proposal form shall be considered a part thereof and shall not be detached or altered when the proposal is submitted.
- 3. The drawings, specifications and other documents designated in the proposal form will also be considered a part thereof whether attached or not.
- 4. When quantities for individual items of work are listed in the proposal form for which respective unit prices are asked, said quantities are estimated or approximate and are to be used by the Department only for the purpose of comparing on a uniform basis bids offered for the work. The Department does not, expressly or by implication agree that the actual quantity of work will correspond therewith.
- 5. On unit price bids, payment will be made only for the actual number of units incorporated into the finished project at the unit price bid, subject to DHHL Construction General Conditions (CGC), Section 4.7, VARIATIONS IN ESTIMATED QUANTITIES.
- 6. The Bidder's proposal must be submitted on the proposal form furnished by the Department. The proposal must be prepared in full accordance with the instructions herein. The Bidder must state, both in words and numerals, the lump sum price or total sum bid at which the work contemplated is proposed to be done. These prices must be written in ink or typed. In case of a discrepancy between the prices written in words and those written in figures, the words shall govern over the figures. The Bidder shall sign the proposal in the spaces provided with ink.
- 7. If the proposal is made by an individual, the person's name and post office address must be shown in the space provided. If made by a partnership, the name and post office address of each member of the partnership must be shown and the

proposal signed by all partners or evidence in the form of a partnership agreement must be submitted showing the authority of the partner to enter, on behalf of said partnership, into contract with the Department. If made by a corporation the proposal must show the name, title and business address of the president, secretary and treasurer and also evidence in the form of a corporate resolution must be submitted showing the authority of the particular corporate representative to enter on behalf of said corporation into contract with the Department. If made by a joint-venture the name and post office address of each member of the individual firm, partnership or corporation comprising the joint-venture must be shown with other pertinent information required of individuals, partnerships or corporations as the case may be. The proposal must be signed by all parties to the joint-venture or evidence in the form of a Joint-Venture Agreement must be submitted showing the authority of the joint-venture's representative to enter on behalf of said joint-venture into contract with the Department.

- 8. Pursuant to the requirements of Section 103D-302, HRS, each Bidder shall include in its bid the name of each person or firm to be engaged by the Bidder on the project as joint contractor or subcontractor indicating also the nature and scope of work to be performed by such joint contractor and/or subcontractor and their respective contractor's license number. A joint contractor or subcontractor performing less than or equal to one percent of the total bid amount is not required to be listed in the proposal. The Bidder shall be solely responsible for verifying that their joint contractor or subcontractor has the proper license at the time of the submitted bid.
- 9. It is understood and agreed that the Contractor shall make no claim for anticipated profit, loss of profit or unabsorbed field, branch or home office overhead and impact losses due to the exercise of the Departments right to eliminate entire portions of the work or to increase or decrease any or all the quantities shown in the proposal form.
- 10. By submitting a bid on the proposal form, a Bidder accepts the language therein as its own.

E BID SECURITY

- Subject to the exceptions in Section 3-122-223(d) HAR, all lump sum bids of \$50,000 (fifty thousand dollars) and higher, or lump sum base bids including alternates of \$50,000 (fifty thousand dollars) and higher, that are not accompanied by bid security are non-responsive. Bid security shall be one of the following: §3-122-222(a) HAR
 - a. Surety bid bond underwritten by a company licensed to issue bonds in this State which shall be substantially in the form of the Surety Bid Bond form in Procurement Circular No. 2007-05; or
 - b. Legal Tender; or

- c. Certificate of Deposit; credit union share certificate; or cashier's, treasurer's, teller's or official check drawn by, or a certified check accepted by, and payable on demand to the State by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration.
 - (a) These instruments may be utilized only to a maximum of \$100,000 (one hundred thousand dollars).
 - (b) If the required security or bond amount totals over \$100,000 (one hundred thousand dollars), more than one instrument not exceeding \$100,000 (one hundred thousand dollars) each and issued by different financial institutions shall be accepted.
 - (c) CAUTION Bidders are cautioned that certificates of deposit or share certificates with an early withdrawal penalty must have a face value sufficient to cover the maximum penalty amount in addition to the proposal guaranty requirement. If the certificate is made out to two names, the certificate must be assigned unconditionally to the Chairman.
- 2. Unless otherwise stated, the bid security shall be in an amount equal to at least five percent (5%) of the lump sum bid or lump sum base bid including all additive alternates or in an amount required by the terms of the federal funding, where applicable.
- 3. If the Bidder is a corporation, evidence in the form of a corporate resolution, authorizing the corporate representative to execute the bond must be submitted with the proposal. (See sample in Appendix.) If the Bidder is a partnership, all partners must sign the bond or evidence in the form of a partnership agreement must be submitted showing the authority of the partner.
- 4. If the Bidder is a joint-venture, all parties to the joint-venture must sign the bond; provided, that one party to the joint-venture may sign on behalf of the joint-venture if evidence in the form of a joint-venture agreement or power of attorney, is submitted showing the authority of the signatory to sign the bond on behalf of the joint-venture.
- 5. In the case where the award will be made on a group or item basis, the amount of bid security shall be based on the total bid for all groups or items submitted.
- 6. Bidders are cautioned that surety bid bonds which place a limit in value to the difference between the bid amount and the next acceptable bid, such value not to exceed the purported amount of the bond, are not acceptable. Also, surety bid bonds which place a time limit on the right of the State to make claim other than allowed by statutes or the GENERAL CONDITIONS are not acceptable. Bidders are hereby notified that a surety bid bond containing such limitation(s) is not

acceptable and a bid accompanied by such surety bid bond will be automatically rejected.

F. BIDDER'S RESPONSIBILITY FOR EXAMINATION OF CONTRACT DOCUMENTS, SITE OF WORK, ETC.

The Bidder shall carefully examine the project site contemplated all Contract Documents and any documents or items referenced therein and contract and bond forms therefore. The submission of a bid shall be considered as a warranty that the Bidder has made such examination and is informed of the conditions to be encountered in performing the Work and of the requirements of the Contract Documents and any documents and items referenced therein, and contract and bonds.

G. ADDENDA AND BID CLARIFICATIONS

- 1. The terms and requirements of the bid documents (i.e. drawings, specifications and other bid and contract documents) cannot be changed prior to the bid opening except by a duly issued addendum.
- 2. The Department may alter, increase or decrease the scope of the work or the contract time, provisions and conditions by issuing a written addendum which sets forth such alterations, increase or decrease.
- 3. If a Bidder discovers what it considers to be a discrepancy, ambiguity, omission or doubt as to the meaning of drawings, specifications and any other bid or contract documents, the Bidder shall request in writing an interpretation from the Chairman.
- 4. If the Department agrees that a discrepancy, ambiguity, omission or doubt exists, it shall issue a written addendum to the bid documents to all prospective Bidders at the respective offices furnished for such purposes eight (8) days before the bids are opened. The Department may extend the bid opening to allow at least eight (8) days from the notification date of the addendum. Upon notification by the Department, all Bidders/addressees shall be deemed to be on notice of the information therein whether or not the addendum is actually received. All addenda so issued shall become part of the contract documents.
- 5. No claim for additional compensation and/or time for performance will be allowed if the Contractor discovered, or in the exercise of reasonable care, should have discovered a discrepancy, ambiguity, omission or doubt for which an interpretation was not requested.

H. SUBSTITUTION OF MATERIALS AND EQUIPMENT BEFORE BID OPENING

1. Brand names of materials or equipment are specified or shown on the drawings to indicate a quality, style, appearance or performance and not to limit competition. The Bidder shall base its bid on one of the specified brand names unless alternate brands are qualified as equal or better in an addendum. Qualifications of such proposed alternate brands shall be submitted in writing and addressed to the Instructions for Bid Submittal

Project Manager. The face of the envelope containing the request must be clearly marked "SUBSTITUTION REQUEST". The request may be hand carried or mailed to DHHL, 91-5420 Kapolei Parkway, Kapolei, Hawaii, 96707. In either case, the written request must be received by DHHL no later than fourteen (14) days before the bid opening date and time specified in the Notice to Bidders. The written request will be time stamped by DHHL. For the purpose of this section, the time designated by the time stamping device in DHHL shall be official. If the written request is hand carried, the bearer is responsible to ensure that the request is time stamped by DHHL.

- 2. Submit three (3) sets of the written request, technical brochures, and a statement of variances. Refer to the Appendix for the Sample "Request for Substitution."
- 3. A statement of variances must list all features of the proposed substitution which differ from the drawings, specifications and/or product(s) specified and must further certify that the substitution has no other variant features. The brochure and information submitted shall be clearly marked showing make, model, size, options, etc., and must include sufficient evidence to evaluate each feature listed as a variance. A request will be denied if submitted without sufficient evidence. If after installing the substituted product, an unlisted variance is discovered, Contractor shall immediately replace the product with a specified product at no cost to the Department.
- 4. Any substitution request not complying with the above requirements will be denied. Substitution requests sent to other agencies and received by Project Manager after the deadline above will be denied.
- 5. An addendum shall be issued to inform all prospective Bidders of any accepted substitution.

I. DELIVERY OF PROPOSALS.

The entire proposal shall be placed together with the bid security, in a sealed envelope and delivered as indicated in the Notice to Contractors. Bids which do not comply with this requirement may not be considered. Proposals will be received up to the time fixed in the public notice for opening of bids and must be in the hands of the official by the time indicated. The time designated by the time stamping device in DHHL shall be official.

- J. WITHDRAWAL OR REVISION OF PROPOSAL. Proposal may be modified prior to the deadline to submit the proposal by any of the following documents:
 - 1 Withdrawal of Proposals:
 - (a) A signed, written notice received in the office designated in the solicitation; or
 - (b) A signed written notice faxed to the office designated in the solicitation.
 - 2 Modification of Proposals:

- (a) A signed written notice received in the office designated in the solicitation, accompanied by a duly executed certificate of resolution for corporations, partnerships and joint-ventures, stating that a modification to the proposal is submitted; and
- (b) The actual modification sealed securely in a separate envelope or container, accompanying the written notice.

K. PUBLIC OPENING OF PROPOSALS.

Proposals will be opened and read publicly at the time and place indicated in the Notice to Contractors. Bidders, their authorized agents and other interested parties are invited to be present.

- L. DISQUALIFICATION OF BIDDERS. Any one or more of the following causes will be considered as sufficient for the disqualification of a Bidder and the rejection of its proposal or proposals:
 - 1. Non-compliance with Section I.A. QUALIFICATION OF BIDDERS;
 - 2. Evidence of collusion among Bidders;
 - 3. Lack of responsibility and cooperation as shown by past work such as failing to complete all of the requirements to close the project within a reasonable time or engaging in a pattern of unreasonable or frivolous claims for extra compensation;
 - 4. Being in arrears on existing contracts with the State of Hawaii, or having defaulted on a previous contract with the State of Hawaii;
 - 5. Lack of proper equipment and/or sufficient experience to perform the work contemplated, as revealed by the Standard Questionnaire and Financial Statement for Bidders:
 - 6. No contractor's license or a contractor's license which does not cover type of work contemplated;
 - 7. More than one proposal for the same work from an individual, firm, partnership, corporation or joint venture under the same or different name;
 - 8. Delivery of bids after the deadline specified in the advertisement calling for bids;
 - 9. Failure to pay, or satisfactorily settle, all bills overdue for labor and materials of former contracts in force at the time of issuance of proposal forms; and/or
 - 10. Debarment or suspension pursuant to the provisions of Chapters 103D, 104 and 444, Hawaii Revised Statutes, as amended.

M. PROTESTS

- 1. Protests shall be governed by Section 103D-701, Hawaii Revised Statutes, and amended hereafter, and its implementing rules set forth in Title 3, Chapter 126, Subchapter 1, of the Hawaii Administrative Rules, and as amended hereafter.
- 2. The Chairman is the Department's chief procurement officer to whom protests shall be addressed unless specified otherwise in the solicitation.

N. WRONGFUL REFUSAL TO ACCEPT A BID.

In the event the Chairman, for any reason, wrongfully refuses to accept what would otherwise be a responsive and responsible lowest bid, the exclusive remedy for such lowest Bidder shall be the recovery of the reasonable actual costs of preparing the bid. No other Bidder shall have any claim for damages.

II AWARD AND EXECUTION OF CONTRACT

A. CONSIDERATION OF PROPOSALS; CANCELLATION.

After the proposals are opened and read, the figures will be extended and/or totaled in accordance with the bid prices of the acceptable proposals and the totals will be compared and the results of such comparison shall be made public. In the event of a tie bid, the low Bidder shall be determined by lot. In the comparison of bids, words written in the proposals will govern over figures and unit prices will govern over totals. Until the award of the contract, the Department may cancel the solicitation, reject any and all proposals in whole or part and may waive any defects or technicalities whenever such action is deemed to be in the best interest of the Department.

B. IRREGULAR PROPOSALS.

Proposals will be considered irregular and may be rejected for the following reasons:

- 1. If the proposal is unsigned.
- 2. If bid security is not in accordance with Section I.E. BID SECURITY.
- 3. If proposal is on a form other than that furnished by the Department; or if the form is altered or any part thereof detached.
- 4. If the proposal shows any non-compliance with applicable law, alteration of form, additions not called for, conditional bids, incomplete bids, non-initialed erasures, other defects, or if the prices are obviously unbalanced.
- 5. If the Bidder adds any provisions reserving the right to accept or reject an award.
- 6. If the Bidder adds any provisions reserving the right to enter into a contract pursuant to an award.

- 7. When a proposal is signed by an officer or officers of a corporation and a currently certified corporate resolution authorizing such signer(s) to submit such proposal is not submitted with the proposal or when the proposal is signed by an agent other than the officer or officers of a corporation or a member of a partnership and a power of attorney is not submitted with the proposal.
- 8. Where there is an incomplete or ambiguous listing of joint contractors and/or subcontractors the proposal may be rejected. All work which is not listed as being performed by joint contractors and/or subcontractors must be performed by the Bidder with its own employees. Additions to the list of joint contractors or subcontractors will not be allowed. Whenever there is a doubt as to the completeness of the list, the Bidder will be required to submit within five (5) working days, a written confirmation that the work in question will be performed with its own work force. Whenever there is more than one joint contractor and/or subcontractor listed for the same item of work, the Bidder will be required to either confirm in writing within five (5) working days that all joint contractors or subcontractors listed will actually be engaged on the project or obtain within five (5) working days written releases from those joint contractors and/or subcontractors who will not be engaged.
- 9. If in the opinion of the Chairman, the Bidder and/or its listed subcontractors do not have the contractor's licenses or combination of contractor's licenses necessary to complete all of the work.

C. CORRECTION OF BIDS AND WITHDRAWAL OF BIDS (§3-122-31 HAR)

- 1. Corrections to bids after bid openings but prior to award may be made under the following conditions:
 - (a) If the mistake is attributable to an arithmetical error, the Chairman shall so correct the mistake. In case of error in extension of bid price, the unit price shall govern.
 - (b) If the mistake is a minor informality which shall not affect price, quantity, quality, delivery, or contractual conditions, the Bidder shall request correction by submitting proof of evidentiary value which demonstrates that a mistake was made. The Chairman shall prepare a written approval or denial in response to this request. Examples of such mistakes include:
 - (1) Typographical errors;
 - (2) Transposition errors;
 - (3) Failure of a Bidder to sign the bid, but only if the unsigned bid is accompanied by other material indicating the Bidder's intent to be bound.
 - (c) For reasons not allowable under Subsections II.C.1.(a) and II.C.1.(b) when the Chairman determines that the correction or waiver of an obvious

mistake is in the best interest of the Department or is warranted for the fair treatment of other Bidders.

- 2. Withdrawal of bids after bid opening but prior to award may be made when the bid contains a mistake attributable to an obvious error which affects price, quantity, quality, delivery, or contractual conditions, and the Bidder requests withdrawal by submitting proof of evidentiary value which demonstrates that a mistake was made. The Chairman shall prepare a written approval or denial in response to this request.
- 3. Correction or withdrawal of bids after award is not permissible except in response to a written withdrawal or correction request by the Contractor, and the Chairman makes a written determination that the Department's procurement practices and policies would not be materially affected by such correction or withdrawal.

D. AWARD OF CONTRACT

- 1. The award of contract, if it be awarded, will be made within one hundred twenty (120) consecutive calendar days after the opening of the proposals to the lowest responsible and responsive Bidder (including the alternate or alternates which may be selected by the Chairman in the case of alternate bids) whose proposal complies with all the requirements prescribed, but in no case will an award be made until all necessary investigations are made. The successful Bidder will be notified, by letter mailed to the address shown on the proposal, that its bid has been accepted and that it has been awarded the contract.
- 2. If the contract is not awarded within the one hundred twenty (120) days noted in Subsection II.D.1 above, the Department may request the successful Bidder to extend the time for the acceptance of its bid. The Bidder may reject such a request without penalty; and in such case, the Department may at its sole discretion make a similar offer to the next lowest responsive and responsible Bidder and so on until a bid is duly accepted or until the Department elects to stop making such requests.
- 3. No contract will be awarded to any person or firm suspended or debarred under the provisions of Chapters 103D, 104 and Chapter 444, Hawaii Revised Statutes as amended.
- 4. The contract will be drawn on the forms furnished by the Chairman. The contract will not be binding on the Department until all required signatures have been affixed thereto and written certification that funds are available for the work has been made.
- 5. Prior to award of the contract, the Department shall verify compliance with Sections 103D-310 and 103D-328 HRS via Hawaii Compliance Express (HCE).

E. CANCELLATION OF AWARD.

The Department reserves the right to cancel the award of any contract at any time before the execution of said contract by all parties. The exclusive remedy to the awardee for such cancellation shall be payment of the reasonable bid preparation costs and the reimbursement of any direct expenses incurred as directed in the Notice of Award. Such cancellation will not incur any liability by the Department to any other Bidder.

F. RETURN OF BID SECURITY.

All bid securities, except those of the four (4) lowest Bidders, will be returned following the opening and checking of the proposals. The retained bid securities of the four lowest Bidders will be returned within five (5) working days following the complete execution of the contract.

G. REQUIREMENT OF PERFORMANCE AND PAYMENT BONDS

- 1. Performance and Payment Bonds shall be required for contracts \$50,000 (fifty thousand dollars) and higher. At the time of the execution of the contract, the successful Bidder shall file good and sufficient performance and payment bonds on the form furnished by the Department, each in an amount equal to one hundred percent (100%) of the amount of the contract price unless otherwise stated in the solicitation of bids. Acceptable performance and payment bonds shall be limited to the following:
- 2 Surety bonds underwritten by a company licensed to issue bonds in this State; or
- 3. A certificate of deposit; credit union share certificate; or cashier's, treasurer's, teller's or official check drawn by, or a certified check accepted by, and payable on demand to the Department by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration.
 - (a) These instruments may be utilized only a maximum of \$100,000 (one hundred thousand dollars).
 - (b) If the required security or bond amount totals over \$100,000 (one hundred thousand dollars), more than one instrument not exceeding \$100,000 (one hundred thousand dollars) each and issued by different financial institutions shall be acceptable.
- 4. If the Contractor fails to deliver the required performance and payment bonds, the Contractor's award shall be canceled, the Department shall have the remedies provided below under FAILURE TO EXECUTE THE CONTRACT and award of the contract shall be made to the next lowest responsible and responsive Bidder.

H. EXECUTION OF THE CONTRACT

- 1. The contract shall be signed by the successful Bidder and returned, together with satisfactory performance and payment bonds, within ten (10) calendar days after the Bidder is awarded the contract for execution or within such further time as the Chairman may allow. No proposal or contract shall be considered binding upon the Department until the contract has been fully and properly executed by all parties thereto. For projects funded with State Capital Improvement Project (CIP) funds, the Chairman shall also endorse thereon its certificate, as required by Section 103D-309, HRS, that there is an available unexpended appropriation or balance of an appropriation over and above all outstanding contracts sufficient to cover the Department's amount required by such contract.
- 2. On any individual award totaling less than \$25,000 (twenty five thousand dollars), the Department reserves the right to execute the contract by the issuance of a Purchase Order. Issuance of a Purchase Order shall result in a binding contract between the parties without further action by the Department. The issuance of a Purchase Order shall not be deemed a waiver of the General Conditions, and Contract Document requirements.

I. FAILURE TO EXECUTE THE CONTRACT

- 1. Before the Award. If a low Bidder without legal justification withdraws its bid after the opening of bids but before the award of the contract, the Department shall be entitled to retain as damages the amount established as bid security, and may take all appropriate actions to recover the damages sum from the property or third-party obligations deposited as bid security.
- 2. After the Award. If the Bidder to which a contract is awarded shall fail or neglect to enter into the contract and to furnish satisfactory security within ten (10) calendar days after such award or within such further time as the Chairman may allow, the Department shall be entitled to recover from such Bidder its actual damages, including but not limited to the difference between the bid and the next lowest responsive bid, as well as personnel and administrative costs, consulting and legal fees and other expenses incurred in arranging a contract with the next low responsible and responsive Bidder or calling for new bids. The Department may apply all or part of the amount of the bid security to reduce its damages. If upon determination by the Department that the bid security exceeds the amount of its damages, it shall release or return the excess to the person who provided same.
- 3. Chairman's Options. Upon a withdrawal of the lowest responsive bid, or upon a refusal or failure of the lowest Bidder to execute the contract, the Chairman may thereupon award the contract to the next lowest responsible and responsive Bidder or may call for new bids, whichever method the Chairman may deem to be in the best interests of the Department.

IFB Checklist for Bidders

IFB-16- HHL-011

Kanakaloloa Cemetery Improvements

Items required prior to Bid Opening:

| | Notice of Intention to Bid, no later than 2:00 p.m., May 20, 2016. |
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| | SPO Form 21 (Standard Qualification Questionnaire), submitted to DHHL, Land Development Division by 2:00 p.m., May 20, 2016. |
| | SPO-38 (Hawaii Product Preference Request, if any), by 4:00 p.m., May 16, 2016. |
| <u>Items</u> | required with Sealed Bid: |
| | Bid Package Envelope Cover (with the words "Sealed Bid"), included with this IFB. |
| | The Envelope Cover Form shall be used for Sealed Bid Envelopes. The cover form should be glued or taped to the front of the bid envelope and the information type- written or printed clearly in ink. |
| | Bid Offer Form (included with this IFB) |
| | The total sum bid amount must be typed or clearly written in both numbers and words in the appropriate space on page 3 of the Bid Offer Form. Illegible writing on any portion of the Bid Offer Form, except for the signee's signature, may be grounds for considering a Bid "non-responsive". |
| | Corporate Resolution (Indicating who is authorized to sign bid documents and contracts) |
| | Bid Security |
| | Form 1 – Certification of Bidder's Participation in Approved Apprenticeship Program Under Act 17 (Apprenticeship Agreement Preference, if any). |

STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

BID OFFER FORM FOR

KANAKALOLOA CEMETERY IMPROVEMENTS, Hoolehua, County of Maui, Island of Molokai, State of Hawaii

T.M.K. (2) 5-2-017:003

IFB No.: IFB-16-HHL-011

Chairman Hawaiian Homes Commission Department of Hawaiian Home Lands 91-5420 Kapolei Parkway Kapolei, Hawaii 96707

The undersigned has carefully examined, read, and understands the terms and conditions in the Plans and Specifications, Special Conditions attached hereto, DHHL Construction General Conditions, and General Conditions specified in the Invitation for Bids (IFB) No. IFB-16-HHL-011. The State of Hawaii's (State) Contract for Goods and Services Based on Competitive Sealed Bids AG-003 Rev. 6/22/2009, AG-008 103D General Conditions, are included by reference and made part hereof and available upon written request to the Procurement Officer. The undersigned herby submits the following offer to perform the work as specified herein, all in accordance with the true intent and meaning thereof.

The undersigned understands and agrees that:

- 1. The State reserves the right to reject any and all offers and to waive any items that are defective when, in the State's opinion, such rejection or waiver will be in the best interest of the State. A solicitation may be rejected in whole or part when in the best interest of the State.
- 2. If awarded the contract, all services will be in accordance with Hawaii Revised Statutes (HRS) § 103-55.5.
- 3. In submitting this offer, the Offeror is not in violation of HRS Chapter 84, concerning prohibited State contracts.
- 4. By submitting this offer, the Offeror certifies that the offer was independently arrived at without collusion and the Offeror did not participate in any practices to restrict competition.
- 5. It is understood that the failure to receive any addendum shall not relieve the Offeror from any obligation under this IFB.

| Date: | |
|--|---|
| | er the laws of the State of Hawaii; OR orated or organized under the laws of the State of vaii Department of Commerce and Consumer Affairs |
| State of incorporation: | <u> </u> |
| Offeror is: □ Sole Proprietor □ Partnership □ Corporation | |
| Federal ID No.: | <u> </u> |
| Hawaii General Excise Tax ID No.: | <u> </u> |
| Telephone No.: | <u> </u> |
| Fax No.: | <u> </u> |
| E-Mail Address: | <u> </u> |
| Payment address (other than street address below) | |
| (Street Address, City | y, State, Zip Code) |
| Business address | |
| (Street Address, City | y, State, Zip Code) |
| | Respectfully submitted: |
| | Authorized (Original) Signature |
| - | Name and Title (Please Type or Print) |
| * | Exact Legal Name of Company (Offeror) |

*If Offeror shown above is a "dba" or a "division" of a corporation, furnish the exact legal name of the corporation under which the awarded contract will be executed:

| The following bid is hereby submitted for Kanakaloloa Cemetery Improvements to the Department of |
|--|
| Hawaiian Home Lands. |
| |

| Item | Description | Unit | Unit Price | Amount |
|------|--|----------|------------|--------------|
| 1 | Cemetery Improvements (as noted on plans) | Lump Sum | \$ | \$ |
| | Monthly Maintenance (after construction) | 6 months | \$/ month | \$ |
| 3 | Allowance (To be authorized on an "As Needed" basis by the DHHL Project Manager) | | | \$ 30,000.00 |
| | | | TOTAL | \$ |

Item 3. ALLOWANCE: To be authorized "As Needed" basis and other related work, with the authorization of the DHHL Project Manager.

| TOTAL SUM BID (Item 1 & 2_) | | |
|-----------------------------|-------------|----|
| | Dollars (\$ |). |

The prices herein for the above items shall include all materials, labor, tools, equipment, machinery and all incidentals necessary, inclusive of general excise tax to install or to construct these items in place complete and in accordance with the plans and specifications contained in this IFB.

HAWAII PRODUCTS PREFERENCE

In accordance with HRS §103D-1002, the Hawaii products preference is applicable to this solicitation. Hawaii Products [are / may be] available for those items noted on the offer form. The Hawaii products list is available on the SPO webpage at http://hawaii.gov/spo, under Toolbox/QuickLinks click on Goods, Services and Construction, then click on Goods, Services and Construction for Vendors, Contractors and Service Providers, under Preferences, click on Preferences pursuant to HRS 103D Part X including Hawaii Products, then click on Preference for Hawaii Products, and select *Hawaii Products List* to view.

Offeror submitting a Hawaii Product (HP) shall identify the HP on the solicitation offer page(s). Any person desiring a Hawaii product preference shall have the product(s) certified and qualified if not currently on the Hawaii products list, prior to the deadline for receipt of offer(s) specified in the procurement notice and solicitation. The responsibility for certification and qualification shall rest upon the person requesting the preference.

Persons desiring to qualify their product(s) not currently on the Hawaii product list shall complete form SPO-038, *Certification for Hawaii Product Preference* and submit to the Procurement Officer issuing the solicitation (IFB or RFP), and provide all additional information required by the Procurement Officer. For each product, one form shall be completed and submitted (i.e. 3 products should have 3 separate forms completed). Form SPO-038 is available on the SPO webpage at http://spo.hawaii.gov/all-forms/. The manufacturers and producers must complete and submit SPO-38 to DHHL. The form must be received by DHHL no later than 2:00 p.m., May 16, 2016. Submittal by facsimile (808 620-9299) is acceptable. If DHHL receives and approves SPO-38s relating to this solicitation DHHL will issue an addendum listing the additional certified and qualified Hawaii products by 4:00 p.m., May 19, 2016.

Bidders may claim a Hawaii product preference for products that it manufactures or produces with its own workforce and equipment. The SPO-38, *Certification for Hawaii Product Preference*, must be submitted in accordance with the procedures described above in order for Bidder to claim a Hawaii product preference for such Hawaii products Bidder intends to use in this work.

When a solicitation contains both HP and non-HP, then for the purpose of selecting the lowest bid or purchase price only, the price offered for a HP item shall be decreased by subtracting 10% for the class I or 15% for the class II HP items offered, respectively. The lowest total offer, taking the preference into consideration, shall be awarded the contract unless the offer provides for additional award criteria. The contract amount of any contract awarded, however, shall be the amount of the price offered, exclusive of the preferences.

Change in Availability of Hawaii product. In the event of any change that materially alters the offeror's ability to supply Hawaii products, the offeror shall notify the procurement officer in writing no later than five working days from when the offeror knows of the change and the parties shall enter into discussions for the purposes of revising the contract or terminating the contract for convenience.

| SCHEDULE OF ACCEPTABLE HAWAII PRODUCTS AND DESIGNATION OF HAWAII PRODUCTS TO BE USED | | | | |
|--|--------------|---------------------------------|--|--|
| ACCEPTABLE HAWAII PRODUCTS | | HAWAII PROD Cost FOB Jobsite | HAWAII PRODUCTS TO BE USED Cost FOB Jobsite, Unloaded Including Applicable General Excise and Use Taxes | |
| Description | Manufacturer | Base Bid | Additive Alternate | |
| Description | Manufacturer | \$ | | |
| | | \$ | \$ | |
| | | \$ | \$ | |
| | | \$ | \$ | |
| | | \$ | \$ | |
| | | \$ | \$ | |
| | | \$ | \$ | |
| | | \$ | \$ | |
| | | \$ | \$ | |
| | | \$ | \$ | |

It is further understood by the Bidder that if upon being granted Hawaii Products, and being awarded the contract, if the Bidder fails to use such products or meet the requirements of such preference, the Bidder shall be subject to penalties, if applicable.

APPRENTICESHIP AGREEMENT PREFERENCE

Hawaii Revised Statutes §103-55.6 (ACT 17, SLH 2009) provides for a Hawai'i Apprenticeship Preference for public works contracts having an estimated value of \$250,000.00 or more. The preference shall be in the form of a 5% bid adjustment applied to the bidder's amount for bidders that are parties to apprenticeship agreements. The estimated value of this public works contract is \$250,000.00 or more and the apprenticeship agreement preference **shall** apply.

To be eligible for the preference, the bidder shall:

- 1. Be a party to an apprenticeship agreement registered with the DLIR at the time the bid is made for each apprenticeable trade the bidder will employ to construct the public works project for which the bid is being made.
 - a. The apprenticeship agreement shall be registered and conform to the requirements of HRS Chapter 372.
 - b. Subcontractors do not have to be a party to an apprenticeship agreement for the bidder to obtain the preference.
 - c. The bidder is not required to have apprentices in its employ at the time the bid is submitted to qualify for the preference.
 - d. If a bidder's employee is multi-skilled and able to perform work in more than one trade (for example, a project requires a carpenter and a laborer, and the employee is a carpenter, but is also able to perform the work of a laborer), the bidder need only be a party to the carpenter's apprenticeship agreement and does not need to be a party to the laborer's apprenticeship agreement in order to qualify for the preference. The bidder is not "employing" a laborer, only a carpenter, and so only needs to be a party to the carpenter's apprenticeship agreement.
 - e. Qualification for the preference is given on a project-by-project basis and depends upon the specific offer for a specific project. A bidder's employees may vary from project to project and may qualify for the preference on one project but may not qualify on another project. For example, on one project, if the bidder only employs carpenters to perform work in the carpentry and labor trades, then the bidder only needs to be a party to the carpenter's apprenticeship agreement in order to qualify for the preference. However, on another project if the same bidder employs both carpenters and laborers, then the bidder will not qualify for the preference if the bidder is only a party to the carpenter's apprenticeship agreement and not the laborer's apprenticeship agreement.
- 2. State the trades the bidder will employ to perform the work;
- 3. For each trade to be employed to perform the work, the bidder shall submit a completed signed original *CERTIFICATION OF BIDDER'S PARTICIPATION IN APPROVED*

APPRENTICESHIP PROGRAM UNDER ACT 17 (Certification Form 1) verifying the participation in an apprenticeship program registered with the State Department of Labor and Industrial Relations (DLIR);

- 4. The *Certification Form 1* shall be authorized by an apprenticeship sponsor of the DLIR list of registered apprenticeship programs. The authorization shall be an original signature by an authorized official of the apprenticeship sponsor; and
- 5. The completed *Certification Form 1* for each trade must be submitted by the bidder with the offer. A facsimile or copy is acceptable to be submitted with the offer; however, the completed **signed original** must be submitted within five (5) working days of the due date of the offer. If the signed original is not received within this timeframe, the preference may be denied. Previous certifications shall not apply.

Failure to comply with ALL of the conditions noted above, without exception, shall disqualify the Bidder from qualifying for, and thus receiving, benefit of the Hawai'i Apprenticeship Preference.

The *Certification Form 1* and the List of Construction Trades in Registered Apprenticeship Programs is available on the DLIR website at: http://labor.hawaii.gov/wdd/.

Upon receiving *Certification Form 1*, the DHHL will verify with DLIR that the apprenticeship program is on the list of apprenticeship programs registered with the DLIR. If the program(s) are not confirmed by the DLIR, the bidder will not qualify for the preference.

If the bidder is certified to participate in an apprenticeship program for each trade which will be employed by the bidder for the project, a preference will be applied to decrease the bidder's total bid amount by five per cent (5%) for evaluation purposes.

Should the bidder qualify for other preferences (for example, Hawaii Products Preference), all applicable preferences shall be applied to the bid amount.

While preference for Hawai'i Apprenticeship will be taken into consideration to determine the low bidder, the contract awarded shall be the original bid amount, exclusive of any preferences. The preference is only for evaluation purposes.

The bidder hereby certifies that it will employ the following apprenticeable trades to perform the work for this project:

| LIST OF APPRENTICEABLE TRADES TO BE EMPLOYED | | |
|--|--------------------------------|--|
| TRADE | APPRENTICESHIP PROGRAM SPONSOR | |
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(Add additional sheets if necessary)

ALL JOINT CONTRACTORS OR SUBCONTRACTORS TO BE ENGAGED ON THIS PROJECT

The Bidder certifies that the following is a complete listing of all joint Contractors or Subcontractors covered under Chapter 444, Hawaii Revised Statutes, who will be engaged by the Bidder on this project to perform the nature and scope of work indicated pursuant to Section 103D-302, Hawaii Revised Statutes, and understands that failure to comply with this requirement shall be just cause for rejection of the bid.

The Bidder further understands that only those joint Contractors or Subcontractors listed shall be allowed to perform work on this project and that all other work necessary shall be performed by the Bidder with his own employees. If no joint Contractor or Subcontractor is listed, it shall be construed that all of the work shall be performed by the Bidder with his own employees.

The Bidders must be sure that they possess and that the Subcontractors listed in the bid possess all the necessary licenses needed to perform the work for this project. The bidder shall be solely responsible for assuring that all the specialty licenses required to perform the work are covered in his bid.

The Bidder shall include the license number of the joint Contractors or Subcontractors listed below. Failure to provide the correct names and license numbers as registered with the Contractor's Licensing Board may cause rejection of the bid submitted.

| Complete Firm Name of Joint | License | Hawaii Tax ID | Nature and Scope of Work |
|-----------------------------|---------|---------------|--------------------------|
| Contractor or Subcontractor | Number | Number | to be Performed |
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(Add additional sheets if necessary)

METHOD OF AWARD

Bidder is required to bid on the entire project. The low bidder shall be determined by the procedures outlined in items 1) through 4) below:

- 1) Prior to opening of bids, the State will determine the amount of funds available for the project. This amount will be designated the "control amount". The control amount shall be announced at, and prior to the opening of bids.
- 2) The Base Bid and Alternate, if any, of each Bidder will be adjusted to reflect the applicable preferences in accordance with Chapter 103D, HRS. The Alternate, if any, will then be added to the Base Bid and compared with the control amount.
- 3) The low bidder shall be the Bidder having the lowest aggregate amount, within the control amount (after application of the various preferences), for the Base Bid plus the Alternate, if any.
- 4) If adding the Alternate, if any, would make the aggregate amount exceed the control amount for all Bidders, the low bidder shall be the Bidder having the lowest Base Bid after application of the various preferences.

It is further understood and agreed that:

- 1) The Chairman reserves the right to reject any and/or all bids and waive any defects when, in his opinion, such rejection or waiver will be in the best interest of the State.
- 2) After determining the low bidder, an award may be made either on the amount of the Base Bid alone, or including the Alternate (exclusive of preferences), if:
 - a. It is in the best interest of the State;
 - b. Funds are available at time of the award; and
 - c. The combination of the Base Bid plus Alternate does not change the apparent low bidder.
- 3) In the event the Base Bid for all Bidders exceed the control amount, the Chairman reserves the right to negotiate with the lowest responsible and responsive bidder to award a contract within available funds.
- 4) In the event the award is made for the Base Bid alone, the Chairman reserves the right to amend the contract at a later date to include the Alternate should funds subsequently become available.

OTHER CONDITIONS

- 1) The liquidated damages per working day for failure to complete the work on time have been determined and are noted in the Special Conditions of the sample contract.
- 2) By submitting this bid, the undersigned is declaring that his firm has not been assisted or represented on this matter by an individual who has, in a State capacity, been involved in the subject matter of this contract in the past one (1) year.
- 3) By submitting this bid, the undersigned is declaring that Bidder's own organization will perform at least 20% of the contractor's work. For the purposes of this section, the Contractor's work is defined as: direct cost labor for contractor's forces; direct cost materials installed by the contractor's direct cost labor force; direct cost equipment, either owned or leased, used by the contractor's direct cost labor force; and field overhead cost to include: field supervision, field office trailer (if any), field office equipment and supplies, etc.
- 4) Upon the acceptance of the bid by the Chairman, the undersigned must enter into and execute a contract for the same and furnish a Performance and Payment Bond, as required by law. These bonds shall conform to the provisions of Sections 103D-324 and 325, Hawaii Revised Statutes, and any law applicable thereto.
- 5) The quantities given herewith are approximate only and are subject to increase or decrease.
- The estimated quantities shown for items for which a UNIT PRICE is asked in this bid are only for the purpose of comparing on a uniform basis bids offered for the work under this contract. No claim shall be filed for anticipated profit or loss because of any difference between the quantities of the various classes of work done or the materials and equipment actually installed and the said estimated quantities. Payment on UNIT PRICE items will be made only for the actual number of units incorporated into the finished project at the contract UNIT PRICE.
- 7) If the product of the UNIT PRICE BID and the number of units does not equal the total amount stated by the undersigned in the Bid for any item, it will be assumed that the error was made in computing the total amount. For the purpose of determining the lowest Bidder, the stated UNIT PRICE alone will be considered as representing the Bidder's intention and the total amount bid on such items shall be considered to be the amount arrived at by multiplying the UNIT PRICE by the number of units.
- 8) <u>Certification for Safety and Health Programs for Bids in Excess of \$100,000</u>. In accordance with Sections 103D-327 and 396-18, Hawaii Revised Statutes, by submitting this bid, the undersigned certifies that his firm will have a written Safety and Health Plan for this project that will be available and implemented by the Notice to Proceed date of

- this project. Details of the requirements of this plan may be obtained from the Department of Labor and Industrial Relations, Occupational, Safety and Health Division.
- 9) Any contract arising out of this offer is subject to the approval of the Department of the Attorney General as to form, and to all further approvals, including the approval of the Governor, required by statute, regulation, rule, order, or other directive.

| Receipt of the following addenda issued b receipt indicated below: | y the Department is acknowledged by the date(s) of |
|---|--|
| Date | Date |
| Addendum No. 1 | Addendum No. 3 |
| Addendum No. 2 | Addendum No. 4 |
| It is understood that failure to receive from any obligation under this IFB as subm | re any such addendum shall not relieve the Contractor itted. |
| Bid Security in the amount of: | |
| | DOLLARS (\$) |
| as required by law, is enclosed herewith in t | the form of: |
| (| Official Check (*3) Share Certificate (*3) Teller's Check (*3) Treasurer's Check (*3) |
| | Respectfully submitted, |
| | Name of Company, Joint Venture or Partnership |
| | License No. |
| | BySignature (*4) |
| | Title: |
| | Date: |
| | Address: |
| | Telephone No.: |

(IF A CORPORATION, AFFIX CORPORATE SEAL TO SIGNATURE, BE SURE TO FILL IN ATTACHED LIST OF SUBCONTRACTORS. THIS BID

FORM MAY NOT BE ALTERED AND BIDDERS MAY NOT QUALIFY OR CONDITION THEIR BIDS IN ANY WAY.)

PLEASE FILL OUT THE ATTACHED CERTIFICATE OF RESOLUTION GIVING EVIDENCE OF THE AUTHORITY OF THIS OFFICER TO SUBMIT BIDS ON BEHALF OF THE COMPANY.

NOTES:

- *1. Surety bond underwritten by a company licensed to issue bonds in this State;
- *2. Legal tender; or
- *3. A certificate of deposit; share certificate; or cashier's, treasurer's, teller's, or official check accepted by, and payable on demand to the State by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation of the National Credit Union Administration.
 - A. These instruments may be utilized only to a maximum of \$100,000.
 - B. If the required security or bond amount totals over \$100,000, more than one instrument not exceeding \$100,000 each and issued by different financial institutions shall be accepted.
- *4. Please attach to this page evidence of the authority of this officer to submit bids on behalf of the Company, and also the names and residence addresses of all officers of the Company.
- *5. Fill in all blank spaces with information asked for or bid may be invalidated. <u>BID MUST</u> BE INTACT; MISSING PAGES MAY INVALIDATE YOUR BID.

CERTIFICATE OF RESOLUTION

| I,, Secretary of, |
|---|
| I, |
| resolution duly adopted by the Board of Directors of said Corporation, at its meeting duly called and |
| held at the office of the Corporation, Hawaii, on day or |
| , 20, at which a quorum was present and acting throughout; and that |
| said resolution has not been modified, amended or rescinded and continues in full force and effect. |
| "RESOLVED that any individual at the time holding the position(s) of the control of the corporation and bid, proposal or contract for the sale or rental of the products of the Corporation or for the services to be performed by the Corporation and to execute any bond required by any such bid, proposal or contract with the United States Government or the State of Hawaii or the City and County of Honolulu, or any County of Municipal Government of said State, or any department or subdivision of any of them." |
| IN WITNESS THEREOF, I have hereunto set my hand and affixed the corporate seal of |
| said this day of, 20 |
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| • |
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| |
| |
| Secretary |

END OF BID

STATE OF HAWAII

DEPARTMENT OF HAWAIIAN HOME LANDS 91-5420 Kapolei Parkway,

Kapolei, HI. 96707

KANAKALOLA CEMETERY IMPROVEMENTS

Kanakaloloa, Hoolehua, Island of Molokai, County of Maui,

IFB NO.: IFB-16-LDD-011

SEALED BID

| Submitted by: | | | |
|---------------|--|--|--|
| | | | |
| Address: | | | |
| | | | |
| Date: | | | |

Bid Package Envelope Cover



GENERAL CONDITIONS

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GENERAL CONDITIONS

- 1. <u>Coordination of Services by the STATE.</u> The head of the purchasing agency ("HOPA") (which term includes the designee of the HOPA) shall coordinate the services to be provided by the CONTRACTOR in order to complete the performance required in the Contract. The CONTRACTOR shall maintain communications with HOPA at all stages of the CONTRACTOR'S work, and submit to HOPA for resolution any questions which may arise as to the performance of this Contract. "Purchasing agency" as used in these General Conditions means and includes any governmental body which is authorized under chapter 103D, HRS, or its implementing rules and procedures, or by way of delegation, to enter into contracts for the procurement of goods or services or both.
- 2. Relationship of Parties: Independent Contractor Status and Responsibilities, Including Tax Responsibilities.
 - a. In the performance of services required under this Contract, the CONTRACTOR is an "independent contractor," with the authority and responsibility to control and direct the performance and details of the work and services required under this Contract; however, the STATE shall have a general right to inspect work in progress to determine whether, in the STATE'S opinion, the services are being performed by the CONTRACTOR in compliance with this Contract. Unless otherwise provided by special condition, it is understood that the STATE does not agree to use the CONTRACTOR exclusively, and that the CONTRACTOR is free to contract to provide services to other individuals or entities while under contract with the STATE.
 - b. The CONTRACTOR and the CONTRACTOR'S employees and agents are not by reason of this Contract, agents or employees of the State for any purpose, and the CONTRACTOR and the CONTRACTOR'S employees and agents shall not be entitled to claim or receive from the State any vacation, sick leave, retirement, workers' compensation, unemployment insurance, or other benefits provided to state employees.
 - c. The CONTRACTOR shall be responsible for the accuracy, completeness, and adequacy of the CONTRACTOR'S performance under this Contract. Furthermore, the CONTRACTOR intentionally, voluntarily, and knowingly assumes the sole and entire liability to the CONTRACTOR'S employees and agents, and to any individual not a party to this Contract, for all loss, damage, or injury caused by the CONTRACTOR, or the CONTRACTOR'S employees or agents in the course of their employment.
 - d. The CONTRACTOR shall be responsible for payment of all applicable federal, state, and county taxes and fees which may become due and owing by the CONTRACTOR by reason of this Contract, including but not limited to (i) income taxes, (ii) employment related fees, assessments, and taxes, and (iii) general excise taxes. The CONTRACTOR also is responsible for obtaining all licenses, permits, and certificates that may be required in order to perform this Contract.
 - e. The CONTRACTOR shall obtain a general excise tax license from the Department of Taxation, State of Hawaii, in accordance with section 237-9, HRS, and shall comply with all requirements thereof. The CONTRACTOR shall obtain a tax clearance certificate from the Director of Taxation, State of Hawaii, and the Internal Revenue Service, U.S. Department of the Treasury, showing that all delinquent taxes, if any, levied or accrued under state law and the Internal Revenue Code of 1986, as amended, against the CONTRACTOR have been paid and submit the same to the STATE prior to commencing any performance under this Contract. The CONTRACTOR shall also be solely responsible for meeting all requirements necessary to obtain the tax clearance certificate required for final payment under sections 103-53 and 103D-328, HRS, and paragraph 17 of these General Conditions.
 - f. The CONTRACTOR is responsible for securing all employee-related insurance coverage for the CONTRACTOR and the CONTRACTOR'S employees and agents that is or may be required by law, and for payment of all premiums, costs, and other liabilities associated with securing the insurance coverage.

- g. The CONTRACTOR shall obtain a certificate of compliance issued by the Department of Labor and Industrial Relations, State of Hawaii, in accordance with section 103D-310, HRS, and section 3-122-112, HAR, that is current within six months of the date of issuance.
- h. The CONTRACTOR shall obtain a certificate of good standing issued by the Department of Commerce and Consumer Affairs, State of Hawaii, in accordance with section 103D-310, HRS, and section 3-122-112, HAR, that is current within six months of the date of issuance.
- i. In lieu of the above certificates from the Department of Taxation, Labor and Industrial Relations, and Commerce and Consumer Affairs, the CONTRACTOR may submit proof of compliance through the State Procurement Office's designated certification process.

3. <u>Personnel Requirements.</u>

- a. The CONTRACTOR shall secure, at the CONTRACTOR'S own expense, all personnel required to perform this Contract.
- b. The CONTRACTOR shall ensure that the CONTRACTOR'S employees or agents are experienced and fully qualified to engage in the activities and perform the services required under this Contract, and that all applicable licensing and operating requirements imposed or required under federal, state, or county law, and all applicable accreditation and other standards of quality generally accepted in the field of the activities of such employees and agents are complied with and satisfied.
- 4. <u>Nondiscrimination.</u> No person performing work under this Contract, including any subcontractor, employee, or agent of the CONTRACTOR, shall engage in any discrimination that is prohibited by any applicable federal, state, or county law.
- 5. <u>Conflicts of Interest.</u> The CONTRACTOR represents that neither the CONTRACTOR, nor any employee or agent of the CONTRACTOR, presently has any interest, and promises that no such interest, direct or indirect, shall be acquired, that would or might conflict in any manner or degree with the CONTRACTOR'S performance under this Contract.
- 6. <u>Subcontracts and Assignments.</u> The CONTRACTOR shall not assign or subcontract any of the CONTRACTOR'S duties, obligations, or interests under this Contract and no such assignment or subcontract shall be effective unless (i) the CONTRACTOR obtains the prior written consent of the STATE, and (ii) the CONTRACTOR'S assignee or subcontractor submits to the STATE a tax clearance certificate from the Director of Taxation, State of Hawaii, and the Internal Revenue Service, U.S. Department of Treasury, showing that all delinquent taxes, if any, levied or accrued under state law and the Internal Revenue Code of 1986, as amended, against the CONTRACTOR'S assignee or subcontractor have been paid. Additionally, no assignment by the CONTRACTOR of the CONTRACTOR'S right to compensation under this Contract shall be effective unless and until the assignment is approved by the Comptroller of the State of Hawaii, as provided in section 40-58, HRS.
 - a. <u>Recognition of a successor in interest.</u> When in the best interest of the State, a successor in interest may be recognized in an assignment contract in which the STATE, the CONTRACTOR and the assignee or transferee (hereinafter referred to as the "Assignee") agree that:
 - (1) The Assignee assumes all of the CONTRACTOR'S obligations;
 - (2) The CONTRACTOR remains liable for all obligations under this Contract but waives all rights under this Contract as against the STATE; and
 - (3) The CONTRACTOR shall continue to furnish, and the Assignee shall also furnish, all required bonds.
 - b. <u>Change of name.</u> When the CONTRACTOR asks to change the name in which it holds this Contract with the STATE, the procurement officer of the purchasing agency (hereinafter referred to as the "Agency procurement officer") shall, upon receipt of a document acceptable or satisfactory to the

Agency procurement officer indicating such change of name (for example, an amendment to the CONTRACTOR'S articles of incorporation), enter into an amendment to this Contract with the CONTRACTOR to effect such a change of name. The amendment to this Contract changing the CONTRACTOR'S name shall specifically indicate that no other terms and conditions of this Contract are thereby changed.

- c. <u>Reports.</u> All assignment contracts and amendments to this Contract effecting changes of the CONTRACTOR'S name or novations hereunder shall be reported to the chief procurement officer (CPO) as defined in section 103D-203(a), HRS, within thirty days of the date that the assignment contract or amendment becomes effective.
- d. <u>Actions affecting more than one purchasing agency.</u> Notwithstanding the provisions of subparagraphs 6a through 6c herein, when the CONTRACTOR holds contracts with more than one purchasing agency of the State, the assignment contracts and the novation and change of name amendments herein authorized shall be processed only through the CPO's office.
- 7. <u>Indemnification and Defense.</u> The CONTRACTOR shall defend, indemnify, and hold harmless the State of Hawaii, the contracting agency, and their officers, employees, and agents from and against all liability, loss, damage, cost, and expense, including all attorneys' fees, and all claims, suits, and demands therefore, arising out of or resulting from the acts or omissions of the CONTRACTOR or the CONTRACTOR'S employees, officers, agents, or subcontractors under this Contract. The provisions of this paragraph shall remain in full force and effect notwithstanding the expiration or early termination of this Contract.
- 8. <u>Cost of Litigation.</u> In case the STATE shall, without any fault on its part, be made a party to any litigation commenced by or against the CONTRACTOR in connection with this Contract, the CONTRACTOR shall pay all costs and expenses incurred by or imposed on the STATE, including attorneys' fees.
- 9. <u>Liquidated Damages.</u> When the CONTRACTOR is given notice of delay or nonperformance as specified in paragraph 13 (Termination for Default) and fails to cure in the time specified, it is agreed the CONTRACTOR shall pay to the STATE the amount, if any, set forth in this Contract per calendar day from the date set for cure until either (i) the STATE reasonably obtains similar goods or services, or both, if the CONTRACTOR is terminated for default, or (ii) until the CONTRACTOR provides the goods or services, or both, if the CONTRACTOR is not terminated for default. To the extent that the CONTRACTOR'S delay or nonperformance is excused under paragraph 13d (Excuse for Nonperformance or Delay Performance), liquidated damages shall not be assessable against the CONTRACTOR. The CONTRACTOR remains liable for damages caused other than by delay.
- 10. STATE'S Right of Offset. The STATE may offset against any monies or other obligations the STATE owes to the CONTRACTOR under this Contract, any amounts owed to the State of Hawaii by the CONTRACTOR under this Contract or any other contracts, or pursuant to any law or other obligation owed to the State of Hawaii by the CONTRACTOR, including, without limitation, the payment of any taxes or levies of any kind or nature. The STATE will notify the CONTRACTOR in writing of any offset and the nature of such offset. For purposes of this paragraph, amounts owed to the State of Hawaii shall not include debts or obligations which have been liquidated, agreed to by the CONTRACTOR, and are covered by an installment payment or other settlement plan approved by the State of Hawaii, provided, however, that the CONTRACTOR shall be entitled to such exclusion only to the extent that the CONTRACTOR is current with, and not delinquent on, any payments or obligations owed to the State of Hawaii under such payment or other settlement plan.
- 11. <u>Disputes.</u> Disputes shall be resolved in accordance with section 103D-703, HRS, and chapter 3-126, Hawaii Administrative Rules ("HAR"), as the same may be amended from time to time.
- 12. <u>Suspension of Contract.</u> The STATE reserves the right at any time and for any reason to suspend this Contract for any reasonable period, upon written notice to the CONTRACTOR in accordance with the provisions herein.
 - a. <u>Order to stop performance.</u> The Agency procurement officer may, by written order to the CONTRACTOR, at any time, and without notice to any surety, require the CONTRACTOR to stop all or any part of the performance called for by this Contract. This order shall be for a specified

period not exceeding sixty (60) days after the order is delivered to the CONTRACTOR, unless the parties agree to any further period. Any such order shall be identified specifically as a stop performance order issued pursuant to this section. Stop performance orders shall include, as appropriate: (1) A clear description of the work to be suspended; (2) Instructions as to the issuance of further orders by the CONTRACTOR for material or services; (3) Guidance as to action to be taken on subcontracts; and (4) Other instructions and suggestions to the CONTRACTOR for minimizing costs. Upon receipt of such an order, the CONTRACTOR shall forthwith comply with its terms and suspend all performance under this Contract at the time stated, provided, however, the CONTRACTOR shall take all reasonable steps to minimize the occurrence of costs allocable to the performance covered by the order during the period of performance stoppage. Before the stop performance order expires, or within any further period to which the parties shall have agreed, the Agency procurement officer shall either:

- (1) Cancel the stop performance order; or
- (2) Terminate the performance covered by such order as provided in the termination for default provision or the termination for convenience provision of this Contract.
- b. <u>Cancellation or expiration of the order.</u> If a stop performance order issued under this section is cancelled at any time during the period specified in the order, or if the period of the order or any extension thereof expires, the CONTRACTOR shall have the right to resume performance. An appropriate adjustment shall be made in the delivery schedule or contract price, or both, and the Contract shall be modified in writing accordingly, if:
 - (1) The stop performance order results in an increase in the time required for, or in the CONTRACTOR'S cost properly allocable to, the performance of any part of this Contract; and
 - (2) The CONTRACTOR asserts a claim for such an adjustment within thirty (30) days after the end of the period of performance stoppage; provided that, if the Agency procurement officer decides that the facts justify such action, any such claim asserted may be received and acted upon at any time prior to final payment under this Contract.
- c. <u>Termination of stopped performance</u>. If a stop performance order is not cancelled and the performance covered by such order is terminated for default or convenience, the reasonable costs resulting from the stop performance order shall be allowable by adjustment or otherwise.
- d. <u>Adjustment of price</u>. Any adjustment in contract price made pursuant to this paragraph shall be determined in accordance with the price adjustment provision of this Contract.

13. Termination for Default.

- a. <u>Default.</u> If the CONTRACTOR refuses or fails to perform any of the provisions of this Contract with such diligence as will ensure its completion within the time specified in this Contract, or any extension thereof, otherwise fails to timely satisfy the Contract provisions, or commits any other substantial breach of this Contract, the Agency procurement officer may notify the CONTRACTOR in writing of the delay or non-performance and if not cured in ten (10) days or any longer time specified in writing by the Agency procurement officer, such officer may terminate the CONTRACTOR'S right to proceed with the Contract or such part of the Contract as to which there has been delay or a failure to properly perform. In the event of termination in whole or in part, the Agency procurement officer may procure similar goods or services in a manner and upon the terms deemed appropriate by the Agency procurement officer. The CONTRACTOR shall continue performance of the Contract to the extent it is not terminated and shall be liable for excess costs incurred in procuring similar goods or services.
- b. <u>CONTRACTOR'S duties.</u> Notwithstanding termination of the Contract and subject to any directions from the Agency procurement officer, the CONTRACTOR shall take timely, reasonable, and

necessary action to protect and preserve property in the possession of the CONTRACTOR in which the STATE has an interest.

- c. <u>Compensation.</u> Payment for completed goods and services delivered and accepted by the STATE shall be at the price set forth in the Contract. Payment for the protection and preservation of property shall be in an amount agreed upon by the CONTRACTOR and the Agency procurement officer. If the parties fail to agree, the Agency procurement officer shall set an amount subject to the CONTRACTOR'S rights under chapter 3-126, HAR. The STATE may withhold from amounts due the CONTRACTOR such sums as the Agency procurement officer deems to be necessary to protect the STATE against loss because of outstanding liens or claims and to reimburse the STATE for the excess costs expected to be incurred by the STATE in procuring similar goods and services.
- d. Excuse for nonperformance or delayed performance. The CONTRACTOR shall not be in default by reason of any failure in performance of this Contract in accordance with its terms, including any failure by the CONTRACTOR to make progress in the prosecution of the performance hereunder which endangers such performance, if the CONTRACTOR has notified the Agency procurement officer within fifteen (15) days after the cause of the delay and the failure arises out of causes such as: acts of God; acts of a public enemy; acts of the State and any other governmental body in its sovereign or contractual capacity; fires; floods; epidemics; quarantine restrictions; strikes or other labor disputes; freight embargoes; or unusually severe weather. If the failure to perform is caused by the failure of a subcontractor to perform or to make progress, and if such failure arises out of causes similar to those set forth above, the CONTRACTOR shall not be deemed to be in default, unless the goods and services to be furnished by the subcontractor were reasonably obtainable from other sources in sufficient time to permit the CONTRACTOR to meet the requirements of the Contract. Upon request of the CONTRACTOR, the Agency procurement officer shall ascertain the facts and extent of such failure, and, if such officer determines that any failure to perform was occasioned by any one or more of the excusable causes, and that, but for the excusable cause, the CONTRACTOR'S progress and performance would have met the terms of the Contract, the delivery schedule shall be revised accordingly, subject to the rights of the STATE under this Contract. As used in this paragraph, the term "subcontractor" means subcontractor at any tier.
- e. <u>Erroneous termination for default.</u> If, after notice of termination of the CONTRACTOR'S right to proceed under this paragraph, it is determined for any reason that the CONTRACTOR was not in default under this paragraph, or that the delay was excusable under the provisions of subparagraph 13d, "Excuse for nonperformance or delayed performance," the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to paragraph 14.
- f. <u>Additional rights and remedies.</u> The rights and remedies provided in this paragraph are in addition to any other rights and remedies provided by law or under this Contract.

14. <u>Termination for Convenience.</u>

- a. <u>Termination.</u> The Agency procurement officer may, when the interests of the STATE so require, terminate this Contract in whole or in part, for the convenience of the STATE. The Agency procurement officer shall give written notice of the termination to the CONTRACTOR specifying the part of the Contract terminated and when termination becomes effective.
- b. <u>CONTRACTOR'S obligations.</u> The CONTRACTOR shall incur no further obligations in connection with the terminated performance and on the date(s) set in the notice of termination the CONTRACTOR will stop performance to the extent specified. The CONTRACTOR shall also terminate outstanding orders and subcontracts as they relate to the terminated performance. The CONTRACTOR shall settle the liabilities and claims arising out of the termination of subcontracts and orders connected with the terminated performance subject to the STATE'S approval. The Agency procurement officer may direct the CONTRACTOR to assign the CONTRACTOR'S right, title, and interest under terminated orders or subcontracts to the STATE. The CONTRACTOR must still complete the performance not terminated by the notice of termination and may incur obligations as necessary to do so.

- c. <u>Right to goods and work product.</u> The Agency procurement officer may require the CONTRACTOR to transfer title and deliver to the STATE in the manner and to the extent directed by the Agency procurement officer:
 - (1) Any completed goods or work product; and
 - (2) The partially completed goods and materials, parts, tools, dies, jigs, fixtures, plans, drawings, information, and contract rights (hereinafter called "manufacturing material") as the CONTRACTOR has specifically produced or specially acquired for the performance of the terminated part of this Contract.

The CONTRACTOR shall, upon direction of the Agency procurement officer, protect and preserve property in the possession of the CONTRACTOR in which the STATE has an interest. If the Agency procurement officer does not exercise this right, the CONTRACTOR shall use best efforts to sell such goods and manufacturing materials. Use of this paragraph in no way implies that the STATE has breached the Contract by exercise of the termination for convenience provision.

d. <u>Compensation.</u>

- (1) The CONTRACTOR shall submit a termination claim specifying the amounts due because of the termination for convenience together with the cost or pricing data, submitted to the extent required by chapter 3-122, HAR, bearing on such claim. If the CONTRACTOR fails to file a termination claim within one year from the effective date of termination, the Agency procurement officer may pay the CONTRACTOR, if at all, an amount set in accordance with subparagraph 14d(3) below.
- (2) The Agency procurement officer and the CONTRACTOR may agree to a settlement provided the CONTRACTOR has filed a termination claim supported by cost or pricing data submitted as required and that the settlement does not exceed the total Contract price plus settlement costs reduced by payments previously made by the STATE, the proceeds of any sales of goods and manufacturing materials under subparagraph 14c, and the Contract price of the performance not terminated.
- (3) Absent complete agreement under subparagraph 14d(2) the Agency procurement officer shall pay the CONTRACTOR the following amounts, provided payments agreed to under subparagraph 14d(2) shall not duplicate payments under this subparagraph for the following:
 - (A) Contract prices for goods or services accepted under the Contract;
 - (B) Costs incurred in preparing to perform and performing the terminated portion of the performance plus a fair and reasonable profit on such portion of the performance, such profit shall not include anticipatory profit or consequential damages, less amounts paid or to be paid for accepted goods or services; provided, however, that if it appears that the CONTRACTOR would have sustained a loss if the entire Contract would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss;
 - (C) Costs of settling and paying claims arising out of the termination of subcontracts or orders pursuant to subparagraph 14b. These costs must not include costs paid in accordance with subparagraph 14d(3)(B);
 - (D) The reasonable settlement costs of the CONTRACTOR, including accounting, legal, clerical, and other expenses reasonably necessary for the preparation of settlement claims and supporting data with respect to the terminated portion of the Contract and for the termination of subcontracts thereunder, together with reasonable storage, transportation, and other costs incurred in connection with the protection or disposition of property allocable to the terminated portion of this Contract. The total sum to be paid the CONTRACTOR under this subparagraph shall not exceed the

total Contract price plus the reasonable settlement costs of the CONTRACTOR reduced by the amount of payments otherwise made, the proceeds of any sales of supplies and manufacturing materials under subparagraph 14d(2), and the contract price of performance not terminated.

- (4) Costs claimed, agreed to, or established under subparagraphs 14d(2) and 14d(3) shall be in accordance with Chapter 3-123 (Cost Principles) of the Procurement Rules.
- 15. <u>Claims Based on the Agency Procurement Officer's Actions or Omissions.</u>
 - a. <u>Changes in scope.</u> If any action or omission on the part of the Agency procurement officer (which term includes the designee of such officer for purposes of this paragraph 15) requiring performance changes within the scope of the Contract constitutes the basis for a claim by the CONTRACTOR for additional compensation, damages, or an extension of time for completion, the CONTRACTOR shall continue with performance of the Contract in compliance with the directions or orders of such officials, but by so doing, the CONTRACTOR shall not be deemed to have prejudiced any claim for additional compensation, damages, or an extension of time for completion; provided:
 - (1) <u>Written notice required.</u> The CONTRACTOR shall give written notice to the Agency procurement officer:
 - (A) Prior to the commencement of the performance involved, if at that time the CONTRACTOR knows of the occurrence of such action or omission;
 - (B) Within thirty (30) days after the CONTRACTOR knows of the occurrence of such action or omission, if the CONTRACTOR did not have such knowledge prior to the commencement of the performance; or
 - (C) Within such further time as may be allowed by the Agency procurement officer in writing.
 - (2) <u>Notice content.</u> This notice shall state that the CONTRACTOR regards the act or omission as a reason which may entitle the CONTRACTOR to additional compensation, damages, or an extension of time. The Agency procurement officer, upon receipt of such notice, may rescind such action, remedy such omission, or take such other steps as may be deemed advisable in the discretion of the Agency procurement officer;
 - (3) <u>Basis must be explained.</u> The notice required by subparagraph 15a(1) describes as clearly as practicable at the time the reasons why the CONTRACTOR believes that additional compensation, damages, or an extension of time may be remedies to which the CONTRACTOR is entitled; and
 - (4) <u>Claim must be justified.</u> The CONTRACTOR must maintain and, upon request, make available to the Agency procurement officer within a reasonable time, detailed records to the extent practicable, and other documentation and evidence satisfactory to the STATE, justifying the claimed additional costs or an extension of time in connection with such changes.
 - b. <u>CONTRACTOR not excused.</u> Nothing herein contained, however, shall excuse the CONTRACTOR from compliance with any rules or laws precluding any state officers and CONTRACTOR from acting in collusion or bad faith in issuing or performing change orders which are clearly not within the scope of the Contract.
 - c. <u>Price adjustment.</u> Any adjustment in the price made pursuant to this paragraph shall be determined in accordance with the price adjustment provision of this Contract.
- 16. <u>Costs and Expenses.</u> Any reimbursement due the CONTRACTOR for per diem and transportation expenses under this Contract shall be subject to chapter 3-123 (Cost Principles), HAR, and the following guidelines:

- a. Reimbursement for air transportation shall be for actual cost or coach class air fare, whichever is less.
- b. Reimbursement for ground transportation costs shall not exceed the actual cost of renting an intermediate-sized vehicle.
- c. Unless prior written approval of the HOPA is obtained, reimbursement for subsistence allowance (i.e., hotel and meals, etc.) shall not exceed the applicable daily authorized rates for inter-island or out-of-state travel that are set forth in the current Governor's Executive Order authorizing adjustments in salaries and benefits for state officers and employees in the executive branch who are excluded from collective bargaining coverage.

17. Payment Procedures; Final Payment; Tax Clearance.

- a. <u>Original invoices required.</u> All payments under this Contract shall be made only upon submission by the CONTRACTOR of original invoices specifying the amount due and certifying that services requested under the Contract have been performed by the CONTRACTOR according to the Contract.
- b. <u>Subject to available funds.</u> Such payments are subject to availability of funds and allotment by the Director of Finance in accordance with chapter 37, HRS. Further, all payments shall be made in accordance with and subject to chapter 40, HRS.

c. <u>Prompt payment.</u>

- (1) Any money, other than retainage, paid to the CONTRACTOR shall be disbursed to subcontractors within ten (10) days after receipt of the money in accordance with the terms of the subcontract; provided that the subcontractor has met all the terms and conditions of the subcontract and there are no bona fide disputes; and
- (2) Upon final payment to the CONTRACTOR, full payment to the subcontractor, including retainage, shall be made within ten (10) days after receipt of the money; provided that there are no bona fide disputes over the subcontractor's performance under the subcontract.
- d. <u>Final payment.</u> Final payment under this Contract shall be subject to sections 103-53 and 103D-328, HRS, which require a tax clearance from the Director of Taxation, State of Hawaii, and the Internal Revenue Service, U.S. Department of Treasury, showing that all delinquent taxes, if any, levied or accrued under state law and the Internal Revenue Code of 1986, as amended, against the CONTRACTOR have been paid. Further, in accordance with section 3-122-112, HAR, CONTRACTOR shall provide a certificate affirming that the CONTRACTOR has remained in compliance with all applicable laws as required by this section.
- 18. <u>Federal Funds.</u> If this Contract is payable in whole or in part from federal funds, CONTRACTOR agrees that, as to the portion of the compensation under this Contract to be payable from federal funds, the CONTRACTOR shall be paid only from such funds received from the federal government, and shall not be paid from any other funds. Failure of the STATE to receive anticipated federal funds shall not be considered a breach by the STATE or an excuse for nonperformance by the CONTRACTOR.

19. Modifications of Contract.

- a. <u>In writing.</u> Any modification, alteration, amendment, change, or extension of any term, provision, or condition of this Contract permitted by this Contract shall be made by written amendment to this Contract, signed by the CONTRACTOR and the STATE, provided that change orders shall be made in accordance with paragraph 20 herein.
- b. <u>No oral modification.</u> No oral modification, alteration, amendment, change, or extension of any term, provision, or condition of this Contract shall be permitted.

- c. <u>Agency procurement officer.</u> By written order, at any time, and without notice to any surety, the Agency procurement officer may unilaterally order of the CONTRACTOR:
 - (A) Changes in the work within the scope of the Contract; and
 - (B) Changes in the time of performance of the Contract that do not alter the scope of the Contract work.
- d. <u>Adjustments of price or time for performance</u>. If any modification increases or decreases the CONTRACTOR'S cost of, or the time required for, performance of any part of the work under this Contract, an adjustment shall be made and this Contract modified in writing accordingly. Any adjustment in contract price made pursuant to this clause shall be determined, where applicable, in accordance with the price adjustment clause of this Contract or as negotiated.
- e. <u>Claim barred after final payment.</u> No claim by the CONTRACTOR for an adjustment hereunder shall be allowed if written modification of the Contract is not made prior to final payment under this Contract.
- f. <u>Claims not barred.</u> In the absence of a written contract modification, nothing in this clause shall be deemed to restrict the CONTRACTOR'S right to pursue a claim under this Contract or for a breach of contract.
- g. <u>Head of the purchasing agency approval.</u> If this is a professional services contract awarded pursuant to section 103D-303 or 103D-304, HRS, any modification, alteration, amendment, change, or extension of any term, provision, or condition of this Contract which increases the amount payable to the CONTRACTOR by at least \$25,000.00 and ten per cent (10%) or more of the initial contract price, must receive the prior approval of the head of the purchasing agency.
- h. <u>Tax clearance</u>. The STATE may, at its discretion, require the CONTRACTOR to submit to the STATE, prior to the STATE'S approval of any modification, alteration, amendment, change, or extension of any term, provision, or condition of this Contract, a tax clearance from the Director of Taxation, State of Hawaii, and the Internal Revenue Service, U.S. Department of Treasury, showing that all delinquent taxes, if any, levied or accrued under state law and the Internal Revenue Code of 1986, as amended, against the CONTRACTOR have been paid.
- i. <u>Sole source contracts.</u> Amendments to sole source contracts that would change the original scope of the Contract may only be made with the approval of the CPO. Annual renewal of a sole source contract for services should not be submitted as an amendment.
- 20. <u>Change Order.</u> The Agency procurement officer may, by a written order signed only by the STATE, at any time, and without notice to any surety, and subject to all appropriate adjustments, make changes within the general scope of this Contract in any one or more of the following:
 - (1) Drawings, designs, or specifications, if the goods or services to be furnished are to be specially provided to the STATE in accordance therewith;
 - (2) Method of delivery; or
 - (3) Place of delivery.
 - a. Adjustments of price or time for performance. If any change order increases or decreases the CONTRACTOR'S cost of, or the time required for, performance of any part of the work under this Contract, whether or not changed by the order, an adjustment shall be made and the Contract modified in writing accordingly. Any adjustment in the Contract price made pursuant to this provision shall be determined in accordance with the price adjustment provision of this Contract. Failure of the parties to agree to an adjustment shall not excuse the CONTRACTOR from proceeding with the Contract as changed, provided that the Agency procurement officer promptly and duly makes the provisional adjustments in payment or time for performance as may be reasonable. By

- proceeding with the work, the CONTRACTOR shall not be deemed to have prejudiced any claim for additional compensation, or any extension of time for completion.
- b. <u>Time period for claim.</u> Within ten (10) days after receipt of a written change order under subparagraph 20a, unless the period is extended by the Agency procurement officer in writing, the CONTRACTOR shall respond with a claim for an adjustment. The requirement for a timely written response by CONTRACTOR cannot be waived and shall be a condition precedent to the assertion of a claim.
- c. <u>Claim barred after final payment.</u> No claim by the CONTRACTOR for an adjustment hereunder shall be allowed if a written response is not given prior to final payment under this Contract.
- d. <u>Other claims not barred.</u> In the absence of a change order, nothing in this paragraph 20 shall be deemed to restrict the CONTRACTOR'S right to pursue a claim under the Contract or for breach of contract.

21. Price Adjustment.

- a. <u>Price adjustment.</u> Any adjustment in the contract price pursuant to a provision in this Contract shall be made in one or more of the following ways:
 - (1) By agreement on a fixed price adjustment before commencement of the pertinent performance or as soon thereafter as practicable;
 - (2) By unit prices specified in the Contract or subsequently agreed upon;
 - By the costs attributable to the event or situation covered by the provision, plus appropriate profit or fee, all as specified in the Contract or subsequently agreed upon;
 - (4) In such other manner as the parties may mutually agree; or
 - (5) In the absence of agreement between the parties, by a unilateral determination by the Agency procurement officer of the costs attributable to the event or situation covered by the provision, plus appropriate profit or fee, all as computed by the Agency procurement officer in accordance with generally accepted accounting principles and applicable sections of chapters 3-123 and 3-126, HAR.
- b. <u>Submission of cost or pricing data.</u> The CONTRACTOR shall provide cost or pricing data for any price adjustments subject to the provisions of chapter 3-122, HAR.
- 22. <u>Variation in Quantity for Definite Quantity Contracts</u>. Upon the agreement of the STATE and the CONTRACTOR, the quantity of goods or services, or both, if a definite quantity is specified in this Contract, may be increased by a maximum of ten per cent (10%); provided the unit prices will remain the same except for any price adjustments otherwise applicable; and the Agency procurement officer makes a written determination that such an increase will either be more economical than awarding another contract or that it would not be practical to award another contract.
- 23. <u>Changes in Cost-Reimbursement Contract.</u> If this Contract is a cost-reimbursement contract, the following provisions shall apply:
 - a. The Agency procurement officer may at any time by written order, and without notice to the sureties, if any, make changes within the general scope of the Contract in any one or more of the following:
 - (1) Description of performance (Attachment 1);
 - (2) Time of performance (i.e., hours of the day, days of the week, etc.);
 - (3) Place of performance of services;

- (4) Drawings, designs, or specifications when the supplies to be furnished are to be specially manufactured for the STATE in accordance with the drawings, designs, or specifications;
- (5) Method of shipment or packing of supplies; or
- (6) Place of delivery.
- b. If any change causes an increase or decrease in the estimated cost of, or the time required for performance of, any part of the performance under this Contract, whether or not changed by the order, or otherwise affects any other terms and conditions of this Contract, the Agency procurement officer shall make an equitable adjustment in the (1) estimated cost, delivery or completion schedule, or both; (2) amount of any fixed fee; and (3) other affected terms and shall modify the Contract accordingly.
- c. The CONTRACTOR must assert the CONTRACTOR'S rights to an adjustment under this provision within thirty (30) days from the day of receipt of the written order. However, if the Agency procurement officer decides that the facts justify it, the Agency procurement officer may receive and act upon a proposal submitted before final payment under the Contract.
- d. Failure to agree to any adjustment shall be a dispute under paragraph 11 of this Contract. However, nothing in this provision shall excuse the CONTRACTOR from proceeding with the Contract as changed.
- e. Notwithstanding the terms and conditions of subparagraphs 23a and 23b, the estimated cost of this Contract and, if this Contract is incrementally funded, the funds allotted for the performance of this Contract, shall not be increased or considered to be increased except by specific written modification of the Contract indicating the new contract estimated cost and, if this contract is incrementally funded, the new amount allotted to the contract.

24. <u>Confidentiality of Material.</u>

- a. All material given to or made available to the CONTRACTOR by virtue of this Contract, which is identified as proprietary or confidential information, will be safeguarded by the CONTRACTOR and shall not be disclosed to any individual or organization without the prior written approval of the STATE.
- b. All information, data, or other material provided by the CONTRACTOR to the STATE shall be subject to the Uniform Information Practices Act, chapter 92F, HRS.
- 25. <u>Publicity.</u> The CONTRACTOR shall not refer to the STATE, or any office, agency, or officer thereof, or any state employee, including the HOPA, the CPO, the Agency procurement officer, or to the services or goods, or both, provided under this Contract, in any of the CONTRACTOR'S brochures, advertisements, or other publicity of the CONTRACTOR. All media contacts with the CONTRACTOR about the subject matter of this Contract shall be referred to the Agency procurement officer.
- 26. Ownership Rights and Copyright. The STATE shall have complete ownership of all material, both finished and unfinished, which is developed, prepared, assembled, or conceived by the CONTRACTOR pursuant to this Contract, and all such material shall be considered "works made for hire." All such material shall be delivered to the STATE upon expiration or termination of this Contract. The STATE, in its sole discretion, shall have the exclusive right to copyright any product, concept, or material developed, prepared, assembled, or conceived by the CONTRACTOR pursuant to this Contract.
- 27. <u>Liens and Warranties.</u> Goods provided under this Contract shall be provided free of all liens and provided together with all applicable warranties, or with the warranties described in the Contract documents, whichever are greater.

- 28. <u>Audit of Books and Records of the CONTRACTOR.</u> The STATE may, at reasonable times and places, audit the books and records of the CONTRACTOR, prospective contractor, subcontractor, or prospective subcontractor which are related to:
 - a. The cost or pricing data, and
 - b. A state contract, including subcontracts, other than a firm fixed-price contract.
- 29. <u>Cost or Pricing Data.</u> Cost or pricing data must be submitted to the Agency procurement officer and timely certified as accurate for contracts over \$100,000 unless the contract is for a multiple-term or as otherwise specified by the Agency procurement officer. Unless otherwise required by the Agency procurement officer, cost or pricing data submission is not required for contracts awarded pursuant to competitive sealed bid procedures.

If certified cost or pricing data are subsequently found to have been inaccurate, incomplete, or noncurrent as of the date stated in the certificate, the STATE is entitled to an adjustment of the contract price, including profit or fee, to exclude any significant sum by which the price, including profit or fee, was increased because of the defective data. It is presumed that overstated cost or pricing data increased the contract price in the amount of the defect plus related overhead and profit or fee. Therefore, unless there is a clear indication that the defective data was not used or relied upon, the price will be reduced in such amount.

30. <u>Audit of Cost or Pricing Data.</u> When cost or pricing principles are applicable, the STATE may require an audit of cost or pricing data.

31. <u>Records Retention.</u>

- (1) Upon any termination of this Contract or as otherwise required by applicable law, CONTRACTOR shall, pursuant to chapter 487R, HRS, destroy all copies (paper or electronic form) of personal information received from the STATE.
- (2) The CONTRACTOR and any subcontractors shall maintain the files, books, and records that relate to the Contract, including any personal information created or received by the CONTRACTOR on behalf of the STATE, and any cost or pricing data, for at least three (3) years after the date of final payment under the Contract. The personal information shall continue to be confidential and shall only be disclosed as permitted or required by law. After the three (3) year, or longer retention period as required by law has ended, the files, books, and records that contain personal information shall be destroyed pursuant to chapter 487R, HRS or returned to the STATE at the request of the STATE.
- 32. <u>Antitrust Claims.</u> The STATE and the CONTRACTOR recognize that in actual economic practice, overcharges resulting from antitrust violations are in fact usually borne by the purchaser. Therefore, the CONTRACTOR hereby assigns to STATE any and all claims for overcharges as to goods and materials purchased in connection with this Contract, except as to overcharges which result from violations commencing after the price is established under this Contract and which are not passed on to the STATE under an escalation clause.
- 33. Patented Articles. The CONTRACTOR shall defend, indemnify, and hold harmless the STATE, and its officers, employees, and agents from and against all liability, loss, damage, cost, and expense, including all attorneys fees, and all claims, suits, and demands arising out of or resulting from any claims, demands, or actions by the patent holder for infringement or other improper or unauthorized use of any patented article, patented process, or patented appliance in connection with this Contract. The CONTRACTOR shall be solely responsible for correcting or curing to the satisfaction of the STATE any such infringement or improper or unauthorized use, including, without limitation: (a) furnishing at no cost to the STATE a substitute article, process, or appliance acceptable to the STATE, (b) paying royalties or other required payments to the patent holder, (c) obtaining proper authorizations or releases from the patent holder, and (d) furnishing such security to or making such arrangements with the patent holder as may be necessary to correct or cure any such infringement or improper or unauthorized use.

- 34. <u>Governing Law.</u> The validity of this Contract and any of its terms or provisions, as well as the rights and duties of the parties to this Contract, shall be governed by the laws of the State of Hawaii. Any action at law or in equity to enforce or interpret the provisions of this Contract shall be brought in a state court of competent jurisdiction in Honolulu, Hawaii.
- 35. <u>Compliance with Laws.</u> The CONTRACTOR shall comply with all federal, state, and county laws, ordinances, codes, rules, and regulations, as the same may be amended from time to time, that in any way affect the CONTRACTOR'S performance of this Contract.
- 36. <u>Conflict Between General Conditions and Procurement Rules</u>. In the event of a conflict between the General Conditions and the procurement rules, the procurement rules in effect on the date this Contract became effective shall control and are hereby incorporated by reference.
- 37. <u>Entire Contract.</u> This Contract sets forth all of the agreements, conditions, understandings, promises, warranties, and representations between the STATE and the CONTRACTOR relative to this Contract. This Contract supersedes all prior agreements, conditions, understandings, promises, warranties, and representations, which shall have no further force or effect. There are no agreements, conditions, understandings, promises, warranties, or representations, oral or written, express or implied, between the STATE and the CONTRACTOR other than as set forth or as referred to herein.
- 38. <u>Severability.</u> In the event that any provision of this Contract is declared invalid or unenforceable by a court, such invalidity or unenforceability shall not affect the validity or enforceability of the remaining terms of this Contract.
- 39. <u>Waiver.</u> The failure of the STATE to insist upon the strict compliance with any term, provision, or condition of this Contract shall not constitute or be deemed to constitute a waiver or relinquishment of the STATE'S right to enforce the same in accordance with this Contract. The fact that the STATE specifically refers to one provision of the procurement rules or one section of the Hawaii Revised Statutes, and does not include other provisions or statutory sections in this Contract shall not constitute a waiver or relinquishment of the STATE'S rights or the CONTRACTOR'S obligations under the procurement rules or statutes.
- 40. <u>Pollution Control.</u> If during the performance of this Contract, the CONTRACTOR encounters a "release" or a "threatened release" of a reportable quantity of a "hazardous substance," "pollutant," or "contaminant" as those terms are defined in section 128D-1, HRS, the CONTRACTOR shall immediately notify the STATE and all other appropriate state, county, or federal agencies as required by law. The Contractor shall take all necessary actions, including stopping work, to avoid causing, contributing to, or making worse a release of a hazardous substance, pollutant, or contaminant, and shall promptly obey any orders the Environmental Protection Agency or the state Department of Health issues in response to the release. In the event there is an ensuing cease-work period, and the STATE determines that this Contract requires an adjustment of the time for performance, the Contract shall be modified in writing accordingly.
- 41. <u>Campaign Contributions.</u> The CONTRACTOR is hereby notified of the applicability of 11-355, HRS, which states that campaign contributions are prohibited from specified state or county government contractors during the terms of their contracts if the contractors are paid with funds appropriated by a legislative body.
- 42. <u>Confidentiality of Personal Information.</u>
 - a. <u>Definitions.</u>
 - "Personal information" means an individual's first name or first initial and last name in combination with any one or more of the following data elements, when either name or data elements are not encrypted:
 - (1) Social security number;
 - (2) Driver's license number or Hawaii identification card number; or

(3) Account number, credit or debit card number, access code, or password that would permit access to an individual's financial information.

Personal information does not include publicly available information that is lawfully made available to the general public from federal, state, or local government records.

"Technological safeguards" means the technology and the policy and procedures for use of the technology to protect and control access to personal information.

b. <u>Confidentiality of Material.</u>

- (1) All material given to or made available to the CONTRACTOR by the STATE by virtue of this Contract which is identified as personal information, shall be safeguarded by the CONTRACTOR and shall not be disclosed without the prior written approval of the STATE.
- (2) CONTRACTOR agrees not to retain, use, or disclose personal information for any purpose other than as permitted or required by this Contract.
- (3) CONTRACTOR agrees to implement appropriate "technological safeguards" that are acceptable to the STATE to reduce the risk of unauthorized access to personal information.
- (4) CONTRACTOR shall report to the STATE in a prompt and complete manner any security breaches involving personal information.
- (5) CONTRACTOR agrees to mitigate, to the extent practicable, any harmful effect that is known to CONTRACTOR because of a use or disclosure of personal information by CONTRACTOR in violation of the requirements of this paragraph.
- (6) CONTRACTOR shall complete and retain a log of all disclosures made of personal information received from the STATE, or personal information created or received by CONTRACTOR on behalf of the STATE.

c. Security Awareness Training and Confidentiality Agreements.

- (1) CONTRACTOR certifies that all of its employees who will have access to the personal information have completed training on security awareness topics relating to protecting personal information.
- (2) CONTRACTOR certifies that confidentiality agreements have been signed by all of its employees who will have access to the personal information acknowledging that:
 - (A) The personal information collected, used, or maintained by the CONTRACTOR will be treated as confidential;
 - (B) Access to the personal information will be allowed only as necessary to perform the Contract; and
 - (C) Use of the personal information will be restricted to uses consistent with the services subject to this Contract.
- d. <u>Termination for Cause.</u> In addition to any other remedies provided for by this Contract, if the STATE learns of a material breach by CONTRACTOR of this paragraph by CONTRACTOR, the STATE may at its sole discretion:

- (1) Provide an opportunity for the CONTRACTOR to cure the breach or end the violation; or
- (2) Immediately terminate this Contract.

In either instance, the CONTRACTOR and the STATE shall follow chapter 487N, HRS, with respect to notification of a security breach of personal information.

e. Records Retention.

- (1) Upon any termination of this Contract or as otherwise required by applicable law, CONTRACTOR shall, pursuant to chapter 487R, HRS, destroy all copies (paper or electronic form) of personal information received from the STATE.
- (2) The CONTRACTOR and any subcontractors shall maintain the files, books, and records that relate to the Contract, including any personal information created or received by the CONTRACTOR on behalf of the STATE, and any cost or pricing data, for at least three (3) years after the date of final payment under the Contract. The personal information shall continue to be confidential and shall only be disclosed as permitted or required by law. After the three (3) year, or longer retention period as required by law has ended, the files, books, and records that contain personal information shall be destroyed pursuant to chapter 487R, HRS or returned to the STATE at the request of the STATE.

Department of Hawaiian Home Lands CONSTRUCTION GENERAL CONDITIONS Dated March 2014

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ARTICLE 1: DEFINITIONS AND ABBREVIATIONS

1.1 DEFINITIONS. Whenever the following terms or pronouns are used in these Construction General Conditions, or in any contract documents or instruments where these Construction General Conditions govern, the intent and meaning shall be interpreted as follows:

ADDENDUM (plural - Addenda). A written or graphic document, including Drawings and Specifications, issued by the Chairman during the bidding period which modifies or interprets the bidding documents, by additions, deletions, clarifications or corrections, which shall be considered and made a part of the bid proposal and the contract.

ADDITION (to the contract sum). Amount added to the contract sum by Change Order.

ADMINISTRATIVE RULES. Hawaii Administrative Rules for Chapter 103-D of the Hawaii Revised Statutes.

ADVERTISEMENT. A public announcement inviting bids for work to be performed or materials to be furnished.

BAD WEATHER DAY. When weather or other conditions prevent a minimum of four hours of work with the Contractor's normal work force on controlling items of work at the site. (See excess bad weather day.)

BENEFICIAL OCCUPANCY. The point of project completion when the Department can use the constructed facility in whole or in part for its intended purpose even though substantial completion may not be achieved.

BID. See PROPOSAL.

BID SECURITY. The security furnished by the Bidder from which the Department may recover its damages in the event the Bidder breaches its promise to enter into a contract with the Department and fails to execute the required bonds covering the work contemplated, if its proposal is accepted.

BIDDER. Any individual, partnership, firm, corporation, joint venture, or other legal entity submitting, directly or through a duly authorized representative or agent, a proposal for the work contemplated.

BIDDING DOCUMENTS. The advertisement "Notice to Contractors", or invitation to bid, instructions to Bidders, proposal requirements, the bid form and the proposed Contract Documents including all addenda issued prior to receipt of Bids.

BULLETIN. A written notice to the Contractor requesting a price and / or time proposal for contemplated changes preparatory to the issuance of a field order or change order.

BY OR TO THE PROJECT MANAGER. To avoid cumbersome and confusing repetition of expressions in these General Conditions, it is provided that whenever the following words or words of like import are used, they shall be understood as if they were followed by the words "by the Project Manager" or "to the Project Manager", unless the context clearly indicates another meaning: contemplated, required, determined, directed, specified, authorized, ordered, given, designated, indicated, considered necessary, deemed necessary, permitted, reserved, suspended, established, approval, approved, disapproved, acceptable, unacceptable, suitable, accepted, satisfactory, unsatisfactory, sufficient, insufficient, rejected or condemned.

CALENDAR DAY. Any day shown on the calendar beginning at midnight and ending at midnight the following day. If no designation of calendar or working day is made, "day" shall mean calendar day.

CHAIRMAN. The Chairman of the Hawaiian Homes Commission, Department of Hawaiian Home Lands.

CHANGE ORDER. A written order signed by the Chairman that establishes the full payment and final settlement of all claims for direct, indirect and consequential costs, including costs of delays, and establishes any adjustments to contract time related to the work covered and affected by one or more field orders, or for change work done or agreed to be done without issuance of a separate field order. A change order signed by all the parties to the contract constitutes a supplemental agreement.

COMPLETION. See SUBSTANTIAL COMPLETION and FINAL COMPLETION.

CONSULTANT. A person, firm or corporation having a contract with the Department to furnish services with respect to the project.

CONTRACT. The written agreement between the Contractor and the Department by its Chairman, by which the Contractor is bound to furnish all labor, equipment, and materials and to perform the specified work within the contract time stipulated, and by which DHHL is obligated to compensate the Contractor therefor at the prices set forth therein. The contract shall include the Contract Documents, also any and all amendments, and change orders, which are required to complete the construction in an acceptable manner.

CONTRACT COMPLETION DATE. The calendar day on which all work on the project, required by the contract, must be completed. See CONTRACT TIME and FINAL COMPLETION.

CONTRACT DOCUMENTS. The Contract, Addenda (which pertain to the Contract Documents, Contractor's Proposal (including Wage Schedule, List of Subcontractors and other documentation accompanying the Bid and any post bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the contract, the Notice to Proceed, the Bonds, these General Conditions, the SPECIAL CONDITIONS, the Specifications and the Drawings as the same are more specifically identified in the contract together with all written Amendments, Change Orders, Field Orders, any written order for minor changes in the work and Project Manager's written interpretations and clarifications issued on or after the effective date of the contract.

CONTRACT PRICE. The amount designated on the face of the contract for the performance of work including allowances, if any.

CONTRACT TIME. The number of working or calendar days provided in the contract for completion of the contract, exclusive of authorized time extensions. The number of days shall begin running on the effective date in the Notice to Proceed. If in lieu of providing a number of working or calendar days, the contract requires completion by a certain date, the work shall be completed by that date.

CONTRACTOR. Any individual, partnership, firm, corporation, joint venture, or other legal entity undertaking the execution of the work under the terms of the contract with the State of Hawaii, and acting directly or through its agents, or employees.

DEPARTMENT. The Department of Hawaiian Home Lands (abbreviated DHHL).

DRAWINGS (or **Plans**). The contract drawings in graphic or pictorial form, which show the design, location, character, dimensions and details of the work to be done and which shall be a part of the Contract Documents.

EQUAL OR APPROVED EQUAL. Whenever this term is used in the drawings or specifications, it shall be interpreted to mean a brand or article, prequalified in accordance with Section 6.3 SUBSTITUTION OF MATERIALS AND EQUIPMENT AFTER BID OPENING, that may be used in place of the one specified.

EXCESS BAD WEATHER DAY. A working day on which inclement weather prevents work on the contract and is beyond the average weather for the location of the project and the time of the year.

FIELD ORDER. A written order issued by the Project Manager to the Contractor requiring the contract work to be performed in accordance with a change or changes in the work. A field order may (1) establish a price adjustment and/or time adjustment in an amount the Project Manager believes is reasonable for the change; or (2) may declare that the Project Manager does not intend to adjust contract time or price for the work; or (3) may request the Contractor to submit a proposal for an adjustment to the contract time and/or price by a certain date.

FINAL COMPLETION. The date set by the Chairman that all work required by the contract and any amendments or changes thereto is in full compliance with the contract.

FORCE ACCOUNT. Term used when work is ordered to be done at the sole option of the Department and is to be billed for at cost of labor, materials and equipment, insurance(s), taxes, etc., plus a percentage for overhead and profit.

GUARANTEE. Legally enforceable assurance of the duration of satisfactory performance of quality of a product or work.

HAZARDOUS MATERIALS. Any and all radioactive materials, asbestos, polychlorinated biphenyls, petroleum, crude oil, chemicals known to cause cancer or reproductive toxicity, pollutants, contaminants, toxic substances or materials cited in Hazardous Material Laws. Abandoned motor vehicles or parts thereof are not hazardous material.

HOLIDAYS. The days of each year which are set apart and established as State holidays pursuant to Chapter 8, Hawaii Revised Statutes.

INSPECTOR. The person assigned by the Department to make detailed inspections of contract performance and materials supplied for the work.

LAWS. All Federal, State, City and County Laws, ordinances, rules and regulations, and standard specifications, including any amendments thereto effective as of the date of the call for sealed bids.

LETTER OF AWARD. A written notice from the Chairman to the successful Bidder(s) stating that the Department has accepted its proposal.

LIQUIDATED DAMAGES. The amount prescribed in the Special Conditions, LIQUIDATED DAMAGES to be paid to the Department or to be deducted from any payments due or to become due the Contractor for each working day or calendar day (as applicable) delay in completing the whole or any specified portion of the work beyond the Contract Time.

MAJOR UNIT PRICE ITEM. A unit price item which, when extended on its estimated quantities in the proposal form, exceeds five percent (5%) of the total base bid proposal less any allowance and contingent items included in the proposal.

NON-CONFORMING WORK. Work that does not meet the requirements of the Contract Documents.

NOTICE TO PROCEED. A written notice from the Project Manager to the Contractor advising it of the date on which it is to begin the prosecution of the work, which date shall also be the beginning of Contract Time.

POST CONTRACT DRAWINGS. Drawings issued after the award of the contract for the purpose of clarification and / or changes to the work indicated in the original drawings and which may be made a part of the contract.

PROJECT ACCEPTANCE DATE. The calendar day on which the Project Manager accepts the project as sufficiently completed in compliance with the contract so that the Department can occupy or utilize the work for its intended use. See SUBSTANTIAL COMPLETION.

PROJECT CONTRACT LIMITS (or CONTRACT ZONE). The portion of the site as delineated on the drawings which define the Contractor's primary area of operation for the prosecution of the work. It does not define the exact limits of all construction that may be required under the contract.

PROJECT MANAGER. The Department's Contract Administrator as described in ARTICLE 5, CONTROL OF WORK.

PROJECT GUARANTEE. A guarantee issued by the Contractor to the Department. See GUARANTEE.

PROPOSAL (**BID**). The executed document submitted by a Bidder in the prescribed manner, in response to a request for proposals or invitation to Bid, to perform at the prices quoted, for the work specified under the contract, within the time prescribed for performance.

PROPOSAL FORM. The form prepared by the Department on which the written offer or formal bid for the work to be done is submitted by the Bidder. By submitting a bid on the proposal form, a Bidder adopts the language therein as its own.

PUNCHLIST. A list compiled by the Project Manager (or Contractor) stating work yet to be completed or corrected by the Contractor in order to substantially complete or finally complete the contract requirements.

SHOP DRAWINGS/SUBMITTALS. All drawings, diagrams illustrations, schedules and other data or information which are prepared or assembled by the Contractor and submitted by Contractor to illustrate some portion of the work.

SPECIAL CONDITIONS. The specific clauses that supplements or modify the standard clauses of the GENERAL CONDITIONS setting forth conditions or requirements peculiar to the individual project under consideration, which are not thoroughly or satisfactorily covered, described or explained in these GENERAL CONDITIONS.

SPECIFICATIONS. That portion of the Contract Documents consisting of written descriptions for materials, equipment, construction systems, standards, workmanship, directions, provisions and

requirements that pertain to the method and manner of performing the work and certain administrative requirements applicable thereto.

STATE. The State of Hawaii acting through its authorized representative.

SUBCONTRACT. Any written agreement between the Contractor and its subcontractors which contains the conditions under which the subcontractor is to perform a portion of the work for the Contractor.

SUBCONTRACTOR. An individual, partnership, firm, corporation, joint venture or other legal entity, as covered in Chapter 444, Hawaii Revised Statutes, which enters into an agreement with the Contractor to perform a portion of the work for the Contractor.

SUBSTANTIAL COMPLETION. The status of the project when the Contractor has completed all the work and (1) all utilities and services are connected and working; (2) all equipment is in acceptable working condition; (3) additional activity by the Contractor to correct punchlist items as described herein will not prevent or disrupt use of the work or the facility in which the work is located; and 4) the building, structure, improvement or facility can be used for its intended purpose.

SUPERINTENDENT. The employee of the Contractor, authorized to receive and fulfill instructions from the Project Manager, who is charged with the responsibility of all the work.

SURETY. The qualified individual, firm or corporation other than the Contractor, which executes a bond with and for the Contractor to ensure its acceptable performance of the contract.

UNUSUALLY SEVERE WEATHER. Uncommonly harsh weather including but not limited to hurricanes, tornadoes, tropical storms and tropical depressions.

WORK. The furnishing of all labor, materials, equipment, and other incidentals necessary or convenient for the successful completion of the project and the execution of all the duties and obligations imposed by the contract.

WORKING DAY. A calendar day, exclusive of Saturdays, Sundays and State-recognized legal holidays for the month in question.

1.2 ABBREVIATIONS

DHHL Department of Hawaiian Home Lands.

HAR Hawaii Administrative Rules
HRS Hawaii Revised Statutes

VECP Value Engineering Cost Proposal

~ END OF ARTICLE 1~

ARTICLE 3: CONTRACT

3.1 NOTICE TO PROCEED

- 3.1.1 After the contract is fully executed and signed by the Chairman, the Contractor will be sent a formal Notice to Proceed letter advising the Contractor of the date on which it may proceed with the work. The Contractor shall be allowed ten (10) consecutive working days from said date to begin its work. In the event that the Contractor refuses or neglects to start the work, the Chairman may terminate the contract in accordance with Section 7.27, TERMINATION OF CONTRACT FOR CAUSE.
- 3.1.2 The Contractor may commence its operations strictly at its own risk prior to receipt of the formal notice to proceed, provided it makes a written request and has received approval from the Chairman in writing. All work performed shall be conducted in accordance with Section 7.1, PROSECUTION OF THE WORK.
- 3.1.3 In certain cases, the Department, with agreement of the Contractor, may issue a Notice to Proceed before full execution of the contract by the Chairman and it may further issue a Notice to Proceed concurrently with the Notice of Award.
- 3.1.4 In the event the Notice to Proceed is not issued within one hundred eighty (180) days after (1) the date the contract is executed by all parties; or (2) for projects funded with State Capital Improvement Project (CIP) funds, the date that the written certificate that funds are available is issued, whichever is later, the Contractor may submit a claim for increased labor and material costs (but not overhead costs) which are directly attributable to the delay beyond the first one hundred eighty (180) days. Such claims shall be accompanied with the necessary documentation to justify the claim. No payment will be made for assumed escalation costs.
- 3.2 RELATIONSHIP OF PARTIES. Independent Contractor Status and Responsibilities, including Tax Responsibilities.
- 3.2.1 In the performance of services required under this Contract, the CONTRACTOR is an "independent contractor," with the authority and responsibility to control and direct the performance and details of the work and services required under this Contract; however, the STATE shall have a general right to inspect work in progress to determine whether, in the STATE's opinion, the services are being performed by the CONTRACTOR in compliance with this Contract. Unless otherwise provided by special condition, it is understood that the STATE does not agree to use the CONTRACTOR exclusively, and that the CONTRACTOR is free to contract to provide services to other individuals or entities while under contract with the STATE.
- 3.2.2 The CONTRACTOR and the CONTRACTOR's employees and agents are not by reason of this Contract, agents or employees of the State for any purpose, and the CONTRACTOR and the CONTRACTOR's employees and agents shall not be entitled to claim or receive from the STATE any vacation, sick leave, retirement, workers' compensation, unemployment insurance, or other benefits provided to state employees.
- 3.2.3 The CONTRACTOR shall be responsible for the accuracy, completeness, and adequacy of the CONTRACTOR's performance under this Contract. Furthermore, the CONTRACTOR intentionally, voluntarily, and knowingly assumes the sole and entire liability to the CONTRACTOR's employees

and agents, and to any individual not a party to this Contract, for all loss, damage, or injury caused by the CONTRACTOR, or the CONTRACTOR's employees or agents in the course of their employment.

- 3.2.4 The CONTRACTOR shall be responsible for payment of all applicable federal, state, and county taxes and fees which may become due and owing by the CONTRACTOR by reason of this Contract, including but not limited to (i) income taxes, (ii) employment related fees, assessments, and taxes, and (iii) general excise taxes. The CONTRACTOR also is responsible for obtaining all licenses, permits, and certificates that may be required in order to perform this Contract.
- 3.2.5 The CONTRACTOR shall obtain a general excise tax license from the Department of Taxation, State of Hawaii, in accordance with Section 237-9, HRS, and shall comply with all requirements thereof.
- 2.2.6 The CONTRACTOR is responsible for securing all employee-related insurance coverage for the CONTRACTOR and the CONTRACTOR's employees and agents that is or may be required by law, and for payment of all premiums, costs, and other liabilities associated with securing the insurance coverage.
- 3.3 PERSONNEL REQUIREMENTS:
- 3.3.1 The CONTRACTOR shall secure, at the CONTRACTOR's own expense, all personnel required to perform this Contract.
- 3.3.2 The CONTRACTOR shall ensure that the CONTRACTOR's employees or agents are experienced and fully qualified to engage in the activities and perform the services required under this Contract, and that all applicable licensing and operating requirements imposed or required under federal, state, or county law, and all applicable accreditation and other standards of quality generally accepted in the field of the activities of such employees and agents are complied with and satisfied.
- 3.4 NONDISCRIMINATION. No person performing work under this Contract, including any subcontractor, employee, or agent of the Contractor, shall engage in any discrimination that is prohibited by any applicable federal, state, or county law.
- 3.5 CONFLICTS OF INTEREST. The CONTRACTOR represents that neither the CONTRACTOR, nor any employee or agent of the CONTRACTOR, presently has any interest, and promises that no such interest, direct or indirect, shall be acquired, that would or might conflict in any manner or degree with the CONTRACTOR's performance under this Contract.
- 3.6 EMPLOYMENT OF STATE RESIDENTS (§103B-3 HRS). The Contractor shall ensure that Hawaii residents comprise not less than eighty per cent of the workforce employed to perform the contract work on the project. The 80% requirement shall be determined by dividing the total number of hours worked on the contract by Hawaii residents, by the total number of hours worked on the contract by all employees of the Contractor in the performance of the contract. The hours worked by any Subcontractor of the Contractor shall count towards the calculation for this section. The hours worked by employees within shortage trades, as determined by the Department of Labor and Industrial Relations (DLIR), shall not be included in the calculation for this section.

~END OF ARTICLE 3~

ARTICLE 4: SCOPE OF WORK

- 4.1 INTENT OF CONTRACT, DUTY OF CONTRACTOR. The intent of the Contract is to provide for the construction, complete in every detail, of the work described at the accepted bid price and within the time established by the contract. The Contractor has the duty to furnish all labor, materials, equipment, tools, transportation, incidentals and supplies and to determine the means, methods and schedules required to complete the work in accordance with the drawings, specifications and terms of the contract.
- 4.1.1 ENTIRE CONTRACT. This Contract sets forth all of the Contract, conditions, understandings, promises, warranties, and representations between the STATE and the CONTRACTOR relative to this Contract. This Contract supersedes all prior Contracts, conditions, understandings, promises, warranties and representations, which shall have no further force or effect. There are no Contracts, conditions, understandings, promises, warranties, or representations, oral or written, express or implied, between the STATE and the CONTRACTOR other than as set forth or as referred to herein.
- 4.2 CHANGES. The Project Manager may at any time, during the progress of the work, by written order, and without notice to the sureties, make changes in the work as may be found to be necessary or desirable. Such changes shall not invalidate the Contract nor release the Surety, and the Contractor will perform the work as changed, as though it had been a part of the original Contract.
- 4.2.1 MINOR CHANGES. Minor changes in the work may be directed by the Project Manager with no change in contract price or time of performance. Minor changes are consistent with the intent of the Contract Documents and do not substantially alter the type of work to be performed or involve any adjustment to the contract sum or extension of the contract time.

4.2.2 ORAL ORDERS

- 4.2.2.1 Any oral order, direction, instruction, interpretation or determination from the Chairman or any other person which in the opinion of the Contractor causes any change, shall be considered as a change only if the Contractor gives the Chairman written notice of its intent to treat such oral order, direction, instruction, interpretation or determination as a change directive. Such written notice must be delivered to both the Chairman and the Project Manager before the Contractor acts in conformity with the oral order, direction, instruction, interpretation or determination, but not more than five (5) days after delivery of the oral order to the Contractor. The written notice shall state the date, circumstances, whether a time extension will be requested, and source of the order that the Contractor regards as a change. Such written notice may not be waived and shall be a condition precedent to the filing of any claim by the Contractor. Unless the Contractor acts in accordance with this procedure, any such oral order shall not be treated as a change for which the Contractor may make a claim for an increase in the contract time or contract price related to such work.
- 4.2.2.2 No more than five (5) days after receipt of the written notice from the Contractor, a Field Order shall be issued for the subject work if the Department agrees that it constitutes a change. If no Field Order is issued in the time established, it shall be deemed a rejection of Contractor's claim for a change. If the Contractor objects to the failure to issue a Field Order, it shall file a written protest with the Chairman within thirty (30) days after delivery to the Chairman of the Contractor's written notice of its intention to treat the oral order as a change. In all cases, the Contractor shall proceed with the work. The protest shall be determined as provided in Section 7.25, DISPUTES AND CLAIMS.
- 4.2.3 FIELD ORDERS. All changes will be set forth in a field order or change order. Upon receipt of a field order, the Contractor shall proceed with the changes as ordered. If the Contractor does not agree

with any of the terms or conditions or in the adjustment or non-adjustment to the contract time and/or contract price set forth therein, it shall file with the Chairman a written protest setting forth its reasons in detail within thirty (30) days after receipt of the field order. In all cases, the Contractor shall proceed with the work as changed. The protest shall be determined as provided in Section 7.25, DISPUTES AND CLAIMS. Failure to file such a protest within the time specified shall constitute agreement on the part of the Contractor with the terms, conditions, amounts and adjustments or non-adjustment to the contract price and/or contract time set forth in the field order.

4.2.4 CHANGE ORDERS

- 4.2.4.1 The Department will issue sequentially numbered change orders at times it deems appropriate during the contract period. A change order may contain the adjustment in contract price and / or time for a number of Field Orders. No payment for any change will be made until the change order is issued.
- 4.2.4.2 The penal sum of the Surety Performance and Payment Bonds will be adjusted by the amount of each and every change order.

4.3 DUTY OF CONTRACTOR TO PROVIDE PROPOSAL FOR CHANGES

- 4.3.1 A Field Order may request the Contractor to supply the Department with a proposal for an adjustment to the contract time or contract price for the work described therein. Any such request for a proposal shall not affect the duty of the Contractor to proceed as ordered with the work described in the Field Order.
- 4.3.2 The Project Manager from time to time may issue a Bulletin to the Contractor requesting price and / or time adjustment proposals for contemplated changes in the work. A Bulletin is not a directive for the Contractor to perform the work described therein.
- 4.3.3 Within seven (7) days after receipt of a Bulletin or Field Order containing a request for proposal, the Contractor shall submit to the Project Manager a detailed written statement setting forth all charges the Contractor proposes for the change and the proposed adjustment of the contract time, all properly itemized and supported by sufficient substantiating data to permit evaluation. No time extension will be granted for delays caused by late Contractor pricing of changes or proposed changes. If the project is delayed because Contractor failed to submit the cost proposal within the seven (7) days, or longer as allowed by the Project Manager, liquidated damages will be assessed in accordance with Section 7.26, FAILURE TO COMPLETE THE WORK ON TIME.
- 4.3.4 No payment shall be allowed to the Contractor for pricing or negotiating proposed or actual changes. No time extension will be granted for delay caused by late Contractor pricing of changes or proposed changes.
- 4.3.5 The Chairman may accept the entire proposal, or any discreet cost item contained within the proposal or the proposed adjustment to contract time by a notice in writing to the Contractor delivered to the Contractor within thirty (30) days after receipt of the proposal. The written acceptance by the Chairman of all or part of the Contractor's proposal shall create a binding agreement between the parties for that aspect of the change.
- 4.3.6 If the Department refuses to accept the Contractor's entire proposal, the Chairman may issue a Field Order for the work; or if a Field Order has already been issued, the Department may issue a supplemental Field Order establishing the remaining adjustments to contract price and/or contract time for the ordered changes. If the Contractor disagrees with any term, condition or adjustment

contained in such Field Order or supplemental Field Order, it shall follow the protest procedures set forth in and be subject to the other terms of Subsection 4.2.3, FIELD ORDERS.

- 4.4 PRICE ADJUSTMENT (§3-125-13 HAR)
- 4.4.1 Any adjustment in the contract price pursuant to a change or claim in this contract shall be made in one or more of the following ways:
- 4.4.1.1 By agreement on a fixed price adjustment before commencement of the pertinent performance or as soon thereafter as practicable;
- 4.4.1.2 By unit prices specified in the contract or subsequently agreed upon;
- 4.4.1.3 Whenever there is a variation in quantity for any work covered by any line item in the schedule of costs submitted as required by Section 7.2, COMMENCEMENT REQUIREMENTS, by the Department at its discretion, adjusting the lump sum price proportionately;
- 4.4.1.4 In such other manner as the parties may mutually agree;
- 4.4.1.5 At the sole option of the Project Manager, by the costs attributable to the event or situation covered by the change, plus appropriate profit or fee, all as specified in Section 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT and the force account provision of Section 8.3, PAYMENT FOR ADDITIONAL WORK; or
- 4.4.1.6 In the absence of an agreement between the two parties, by a unilateral determination by the Department of the reasonable and necessary costs attributable to the event or situation covered by the change, plus appropriate profit or fee, all as computed in accordance with applicable Sections of Chapters 3-123 and 3-126 of the Hawaii Administrative Rules and Regulations, and Section 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT.
- 4.5 ALLOWANCES FOR OVERHEAD AND PROFIT (§3-125-13 HAR)
- 4.5.1 In determining the cost or credit to the Department resulting from a change, the allowances for all overhead, including, extended overhead resulting from adjustments to contract time (including home office, branch office and field overhead, and related delay impact costs) and profit combined, shall not exceed the percentages set forth below:
- 4.5.1.1 For the Contractor, for any work performed by its own labor forces, twenty percent (20%) of the direct cost;
- 4.5.1.2 For each subcontractor involved, for any work performed by its own forces, twenty percent (20%) of the direct cost;
- 4.5.1.3 For the Contractor or any subcontractor, for work performed by their subcontractors, ten percent (10 %) of the amount due the performing subcontractor.
- 4.5.1.4 Field overhead includes, but is not limited to all costs of supervision, engineering, clerical, layout, temporary facilities, improvements and structures, all general condition expenditures, storage, transport and travel, housing, small tools (as defined in 8.3.4.5(h), pickup trucks and automobiles.

- 4.5.2 Not more than three markup allowance line item additions not exceeding the maximum percentage shown above will be allowed for profit and overhead, regardless of the number of tier subcontractors.
- 4.5.3 The allowance percentages will be applied to all credits and to the net increase of direct costs where work is added and deleted by the changes.
- 4.6 PAYMENT FOR DELETED MATERIAL
- 4.6.1 CANCELED ORDERS. If acceptable material was ordered by the Contractor for any item deleted by an ordered change in the work prior to the date of notification of such deletion by the Project Manager, the Contractor shall use its best efforts to cancel the order. The Department shall pay reasonable cancellation charges required by the supplier excluding any markup for overhead and profit to the Contractor.
- 4.6.2 RETURNED MATERIALS If acceptable deleted material is in the possession of the Contractor or is ultimately received by the Contractor, if such material is returnable to the supplier and the Project Manager so directs, the material shall be returned and the Contractor will be paid for the reasonable charges made by the supplier for the return of the material, excluding any markup for overhead and profit to the Contractor. The cost to the Contractor for handling the returned material will be paid for as provided in Section 4.4, PRICE ADJUSTMENT.
- 4.6.3 UNCANCELLED MATERIALS. If orders for acceptable deleted material cannot be canceled at a reasonable cost, it will be paid for at the actual cost to the Contractor including an appropriate markup for overhead and profit as set forth in Section 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT. In such case, the material paid for shall become the property of the Department and the cost of further storage and handling shall be paid for as provided in Section 4.4, PRICE ADJUSTMENT.
- 4.7 VARIATIONS IN ESTIMATED QUANTITIES (§3-125-10 HAR)
- Where the quantity of a major unit price item in this contract is estimated on the proposal form and where the actual quantity of such pay item varies more than fifteen percent (15%) above or below the estimated quantity stated in this contract, an adjustment in the contract price shall be made upon demand of either party. The adjustment shall be based upon any increase or decrease in costs due solely to the variation above one hundred fifteen percent (115%) or below eighty-five percent (85%) of the estimated quantity. The adjustment shall be subject to Section 4.4 PRICE ADJUSTMENT and Section 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT. If the quantity variation is such as to cause an increase in the time necessary for completion, the Chairman shall, upon receipt of a written request for an extension of time within thirty (30) days of the item's completion, ascertain the facts and make such adjustment to the completion date as the Chairman finds justified.
- VARIATIONS IN BOTTOM ELEVATIONS. The Contractor shall plan and construct to the bottom elevations of footings, piles, drilled shafts, or cofferdams as shown on the drawings. When the bottom of a footing, pile, drilled shaft, or cofferdam is shown as an estimated or approximate elevation, the Contractor shall plan and construct to that elevation or to any deeper elevation required by the drawings or direction of the Project Manager. In the event the bottom elevation is lowered, the Contractor shall be entitled to additional payment in accordance with Sections 4.4 PRICE ADJUSTMENT and 4.5 ALLOWANCES FOR OVERHEAD AND PROFIT. In the event the bottom elevation is raised, the Department shall be entitled to a credit in accordance with Sections 4.2 CHANGES, 4.4, PRICE ADJUSTMENT and 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT.

- 4.9 DIFFERING SITE CONDITIONS (§3-125-11 HAR)
- 4.9.1 During the progress of the work, if the Contractor encounters conditions at the site differing materially from those shown in the drawings and specifications, Contractor shall promptly, and before any such conditions are disturbed or damaged (except in an emergency as required by Subsection 7.17.8. EMERGENCIES), notify the Project Manager in writing of:
- 4.9.1.1 Subsurface or latent physical conditions at the site differing materially from those indicated in the contract; or
- 4.9.1.2 Unknown physical conditions at the site, of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this contract. Unclaimed motor vehicles or parts thereof and discarded materials or unclaimed items are not unknown or unforeseen physical conditions. (See also Section 5.8, EXAMINATION OF DRAWINGS, SPECIFICATIONS, PROJECT SITE).
- 4.9.2 After receipt of written notice, the Chairman shall promptly investigate the site, and if it is found that such conditions do materially differ and cause an increase in the Contractor's cost of, or the time required to, perform any part of the work, whether or not changed as a result of such conditions, an adjustment shall be made and the contract modified accordingly. Any adjustment in contract price made pursuant to this Section 4.9. DIFFERING SITE CONDITIONS (§3-125-11 HAR) shall be determined in accordance with Sections 4.4, PRICE ADJUSTMENT and 7.25, DISPUTES AND CLAIMS.
- 4.9.3 Nothing contained in this Section 4.9, DIFFERING SITE CONDITONS shall be grounds for an adjustment in compensation if the Contractor had actual knowledge or should have known of the existence of such conditions prior to the submission of bids.
- 4.10 COSTS AND EXPENSES. Any reimbursement due the CONTRACTOR for per diem and transportation expenses under this Contract shall be subject to Chapter 3-123 (Cost Principles) of the Procurement Rules and the following guidelines:
- 4.10.1 Reimbursement for air transportation shall be actual cost or coach class air fare, whichever is less.
- 4.10.2 Reimbursement for ground transportation costs shall not exceed the actual cost of renting an intermediate-sized vehicle.
- 4.10.3 Unless prior written approval of the CHAIRMAN is obtained, reimbursement for subsistence allowance (i.e., hotel and meals, etc.) shall not exceed the applicable daily authorized rates for interisland or out-of-state travel that are set forth in the current Governor's Executive Order authorizing adjustments in salaries and benefits for state officers and employees in the Chairman branch who are excluded from collective bargaining coverage.

~END OF ARTICLE 4~

ARTICLE 5: CONTROL OF WORK

- AUTHORITY OF THE CHAIRMAN The Chairman shall make final and conclusive decisions on all questions which may arise relating to the quality and acceptability of the materials furnished and work performed, the manner of performance and the rate of progress of the work, the interpretation of the plans and specifications, the acceptable fulfillment of the contract on the part of the Contractor, the compensation under the contract and the mutual rights of the parties to the contract. The Chairman shall have the authority to enforce and make effective such decisions and orders at the Contractor's expense when the Contractor fails to carry such decisions and orders out promptly and diligently. The Chairman shall have the authority to suspend the work wholly or in part as provided in Section 7.24, SUSPENSION OF WORK.
- AUTHORITY OF THE PROJECT MANAGER. The Project Manager has the authority to act on behalf of the Department on all matters regarding the contract and the work that are not reserved for the Chairman. The Project Manager's authority is vested exclusively in the Project Manager except when specific authority to act for the Project Manager has been delegated to a specific person or persons. Such delegation of authority may be established by the Contract Documents; otherwise, it is not effective or binding upon the Department until such written notification of the delegation is received by the Contractor. The Administrator of the Land Development Division of the Department, or his designee, shall also have authority to act on behalf of the Department on all matters regarding the contract that are not reserved for the Chairman.

5.3 AUTHORITY OF THE INSPECTOR

- 5.3.1 The Inspector shall observe and inspect the contract performance and materials. The Inspector does not have any authority vested in the Project Manager unless specifically delegated in writing.
- 5.3.2 The Inspector may offer advice and recommendations to the Contractor, but any such advice or recommendations are not directives from the Project Manager.
- 5.3.3 The Inspector has no authority to allow deviations from the Contract Documents and may reject any and all work that the Inspector deems is not in conformity with the contract requirements. Failure of an Inspector at any time to reject non-conforming work shall not be considered a waiver of the Department's right to require work in strict conformity with the Contract Documents as a condition of final acceptance.
- AUTHORITY OF CONSULTANT(S). The Department may engage Consultant(s) for limited or full observation to supplement the inspections performed by the Department and respective Counties. Unless otherwise specified in writing to the Contractor, such retained Consultant(s) will have the authority of an Inspector.
- 5.5 SHOP DRAWINGS AND OTHER SUBMITTALS. The following documents shall be submitted where required by the Contract Documents:

5.5.1 SHOP DRAWING

(a) The Contractor shall prepare, thoroughly check, and approve all shop drawings, including those prepared by subcontractors or any other persons. The Contractor shall indicate its approval by stamping and signing each drawing. Any shop drawing submitted without being reviewed, stamped and signed will be considered as not having been submitted, and any delay caused thereby shall be the Contractor's responsibility.

- (b) Shop drawings shall indicate in detail all parts of an item of work, including erection and setting instructions and engagements with work of other trades or other separate contractors. Shop drawings for structural steel, millwork and pre-cast concrete shall consist of calculations, fabrication details, erection drawings and other working drawings to show the details, dimensions, sizes of members, anchor bolt plans, insert locations and other information for the complete fabrication and erection of the structure to be constructed.
- (c) The Contractor shall be responsible for the design of all structural curtain walls, all connections and fasteners for structural steel and architectural and structural precast concrete. Curtain walls, connections and fasteners shall be designed by a licensed professional engineer to carry the indicated or necessary loads. The precast concrete pieces shall be designed to withstand erection, transportation and final loading stresses. All calculations shall be performed by a licensed professional engineer and submitted to the Project Manager for review.
- (d) The cost of shop drawings or any other submittal shall not be a separate or individual pay item. All costs of furnishing shop drawings required by the contract shall be included in the price agreed to be paid for the various contract items of work, and no additional allowances will be made therefor.
- (e) All shop drawings as required by the contract, or as determined by the Project Manager to be necessary to illustrate details of the work shall be submitted to the Project Manager with such promptness as to cause no delay in the work or in that of any other Contractor. Delay caused by the failure of the Contractor to submit shop drawings on a timely basis to allow for review, possible resubmittal and acceptance will not be considered as a justifiable reason for a contract time extension. Contractor, at its own risk, may proceed with the work affected by the shop drawings before receiving acceptance; however the Department shall not be liable for any costs or time required for the correction of work done without the benefit of accepted shop drawings.
- (f) It is the Contractor's obligation and responsibility to check all of its and its subcontractor's shop drawings and be fully responsible for them and for coordination with connecting and other related work. The Contractor shall prepare, and submit to the Project Manager coordination drawings showing the installation locations of all plumbing, piping, duct and electrical work including equipment throughout the project. By approving and submitting shop drawings, the Contractor thereby represents that it has determined and verified all field measurements and field construction criteria, or will do so, and that it has checked and coordinated each shop drawing with the requirements of the work and the contract documents. When shop drawings are prepared and processed before field measurements and field construction criteria can be or have been determined or verified, the Contractor shall make all necessary adjustments in the work or resubmit further shop drawings, all at no change in contract price or time.
- 5.5.1.1 SHOP DRAWING FORM. Each drawing and/or series of drawings submitted must be accompanied by a letter of transmittal giving a list of the titles and number of the drawings. Each series shall be numbered consecutively for ready reference and each drawing shall be marked with the following information:
 - (a) Date of Submission
 - (b) Name of Project
 - (c) Project Number
 - (d) Location of Project
 - (e) Name of submitting Contractor and Subcontractor
 - (f) Revision Number
 - (g) Specification and/or any drawing reference by article or sheet number.

- 5.5.1.2 No shop drawing shall be smaller than 24" x 36" nor larger than 28" x 42". At the determination of the Project Manager, each sheet of drawings for the submittal shall consist of either (1) reproducible transparency and three ozalid prints; or (2) six ozalid prints.
- 5.5.1.3 The Department will not be responsible for any cost of modifying/adjusting precast structures to fit the final as-built design, actual field conditions and finished work. To this end, the Contractor shall follow the following procedures:
 - (a) Submit shop drawings for general design conformity for approval. Delay precasting operations.
 - (b) Start infrastructure work. Expose, check grade and install improvements requiring precast structures. Resubmit shop drawings with schedule for all structures indicating required deviations, correct and final inverts, depths, openings, special reinforcing and details, alignments, correct configurations, tops, grating, etc. The Contractor shall submit a schedule for the precasting work. Precast operations may commence based on approved shop drawings. During precast operations, the Project Manager may inspect the operations at least once per differing group of structures. The Contractor shall assume all risks and costs associated with modifying/adjusting the precast structures due to incomplete field verification, premature analysis and shop drawings.
- DESCRIPTIVE SHEETS AND OTHER SUBMITTALS. When a submittal is required by the contract, the Contractor shall submit to the Project Manager eight (8) complete sets of descriptive sheets such as brochures, catalogs, illustrations, etc., which will completely describe the material, product, equipment, furniture or appliances to be used in the project as shown in the drawings and specifications. Prior to the submittal, the Contractor will review and check all descriptive sheets for conformity to the contract requirements and indicate such conformity by marking or stamping and signing each sheet. It is the responsibility of the Contractor to submit descriptive sheets for review and acceptance by the Project Manager as required at the earliest possible date after the date of award in order to meet the construction schedule. Delays caused by the failure of the Contractor to submit descriptive sheets as required will not be considered as justifiable reasons for contract time extension. The submittal shall list the seven (7) items of information as listed in Subsection 5.5.1, Shop Drawing.
- 5.5.3 MATERIAL SAMPLES AND COLOR SAMPLES. Prior to their submittal, all color samples and material shall be assembled and presented as required by the Department. When sample submittals are required by the contract, the Contractor shall review, approve, indicate its approval and submit to the Project Manager samples of the materials to be used in the project and color selection samples. It is the responsibility of the Contractor to submit material and color samples for review as required at the earliest possible date after the date of award in order to meet the construction schedule. Delays caused by the failure of the Contractor to submit material and color samples will not be considered as justifiable reasons for contract time extension. The submittal shall list the seven (7) items of information as listed in Subsection 5.5.1, Shop Drawing.
- 5.5.4 SUBMITTAL VARIANCES. The Contractor shall include with the submittal, written notification clearly identifying all deviations or variances from the contract drawings, specifications and other Contract Documents. The notice shall be in a written form separate from the submittal. The variances shall also be clearly indicated on the shop drawing, descriptive sheet, material sample or color sample. Failure to so notify of and identify such variances shall be grounds for the subsequent rejection of the related work or materials, notwithstanding that the submittal was accepted by the Project Manager. If the variances are not acceptable to the Project Manager, the Contractor will be

required to furnish the item as specified or indicated on the Contract Documents at no additional cost or time.

- 5.5.5 REVIEW AND ACCEPTANCE PROCESS. The Project Manager shall check shop drawings and within forty-five (45) days of receipt return them to the Contractor unless otherwise agreed between the Contractor and the Department. Submittals required for work to be installed within the first sixty days after the notice to proceed shall be returned by the Project Manager within twenty (20) days. If the volume of shop drawings submitted at any time for review is unusually large, the Contractor may inform the Project Manager of its preferred order for review and the Project Manager shall use reasonable efforts to accommodate the Contractor's priorities.
- 5.5.5.1 The acceptance by the Project Manager of the Contractor's submittal relates only to their sufficiency and compliance with the intention of the contract. Acceptance by the Project Manager of the Contractor's submittal does not relieve the Contractor of any responsibility for accuracy of dimensions, details, and proper fit, and for agreement and conformity of submittal with the Contract Drawings and Specifications. Nor will the Project Manager's acceptance relieve the Contractor of responsibility for variance from the Contract Documents unless the Contractor, at the time of submittal, has provided notice and identification of such variances required by this section. Acceptance of a variance shall not justify a contract price or time adjustment unless the Contractor requests such an adjustment at the time of submittal and the adjustment are explicitly agreed to in writing by the Department. Any such request shall include price details and proposed scheduling modifications. Acceptance of a variance is subject to all contract terms, stipulations and covenants, and is without prejudice to any and all rights under the surety bond.
- 5.5.5.2 If the Project Manager returns a submittal to the Contractor that has been rejected, the Contractor, so as not to delay the work, shall promptly make a resubmittal conforming to the requirements of the Contract Documents and indicating in writing on the transmittal and the subject submittal what portions of the resubmittal has been altered in order to meet the acceptance of the Project Manager. Any other differences between the resubmittal and the prior submittal shall also be specifically described in the transmittal.
- 5.5.5.3 No mark or notation made by the Project Manager or Consultant(s) on or accompanying the return of any submittal to the Contractor shall be considered a request or order for a change in work. If the Contractor believes any such mark or notation constitutes a request for a change in the work for which it is entitled to an adjustment in contract price and/or time, the Contractor must follow the same procedures established in Section 4.2, CHANGES for oral orders, directions, instructions, interpretations or determinations from the Project Manager or else lose its right to claim for an adjustment.
- COORDINATION OF CONTRACT DOCUMENTS. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. The Contract Documents are complementary: any requirement occurring in one document is as binding as though occurring in all. In the event of conflict or discrepancy the priorities stated in the following Subsections shall govern:
- 5.6.1 Addenda shall govern over all other Contract Documents. Subsequent addenda issued shall govern over prior addenda only to the extent specified.
- 5.6.2 Special Conditions and Proposal shall govern over the General Conditions and Specifications.
- 5.6.3 Specifications shall govern over drawings.

- 5.6.4 Specification Error Should an error or conflict appear within the specification, the Contractor shall immediately notify the Project Manager. The Project Manager shall promptly issue instructions as to procedure. Any requirement occurring in one or more parts of the specification is as binding as though occurring in all applicable parts.
- 5.6.4.1 Should an error or conflict appear within a specification section, between a listed manufacturer / product and the performance requirements of the specification section, the performance requirements shall govern.
- 5.6.4.2: In the event of a conflict between AG-008 103D General Conditions (the "General Conditions") and these DHHL Construction General Conditions, the requirements of these DHHL Construction General Conditions will apply to the extent provided by and as allowed under law.
- 5.6.5 DRAWINGS
- 5.6.5.1 Schedules shall govern over all other notes and drawings.
- 5.6.5.2 Bottom elevations of footings shown on drawings shall govern over a general note such as: "All footings shall rest on firm, undisturbed soil and extend a minimum of a certain number of feet into natural or finish grade, whichever is lower." In the event the footing must be lowered below the bottom elevation shown, the Contractor shall be entitled to additional payment as provided in Section 4.2, CHANGES. In the event the footing is raised above the bottom elevation shown, the Department shall be entitled to a credit as provided in Section 4.2, CHANGES.
- 5.6.5.3 When a bottom of pile, drilled shaft, piling or cofferdam is shown as an estimated or approximate elevation, the Contractor shall plan and construct to that elevation or to any deeper elevation required by the plans or the direction by the Project Manager. The Project Manager, at the Project Manager's sole discretion, may order in writing termination of all or part of the work above the estimated or approximate elevation.
- 5.6.5.4 Except for drawing schedules and bottom elevations as noted above, general notes shall govern over all other portions of the drawings:
- 5.6.5.5 Larger scale drawings shall govern over smaller scale drawings.
- 5.6.5.6 Figured or numerical dimensions shall govern over dimensions obtained by scaling. Measurements from the drawings when scaled shall be subject to the approval of the Project Manager.
- 5.6.5.7 In cases of discrepancies in the figures or drawings, the discrepancies shall be immediately referred to the Project Manager without whose decision said discrepancy shall not be corrected by the Contractor save at its own risk and in the settlement of any complications arising from such adjustment without the knowledge and consent of the Project Manager, the Contractor shall bear all extra expense involved.
- 5.6.5.8 Items shown on the drawings that are completely void in terms of description, details, quality and / or performance standards in both the Drawings and Specifications to make a price determination shall be considered an omission and the Contractor shall immediately refer same to the Project Manager for a decision.

- 5.6.5.9 Where there is a conflict between the architectural sheets and the civil or landscaping or electrical sheets, etc., the conflict shall be considered a discrepancy and the Contractor shall immediately refer same to the Project Manager for a decision.
- 5.6.5.10 Any requirement occurring in one or more of the sheets is as binding as though occurring in all applicable sheets.
- 5.7 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS. The Contractor shall carefully study and compare the Contract Documents with each other, with field conditions and with the information furnished by the Department and shall at once report to the Project Manager errors, conflicts, ambiguities, inconsistencies or omissions discovered. Should an item not be sufficiently detailed or explained in the Contract Documents, Contractor shall report and request the Project Manager's clarification and interpretation. The Project Manager will issue a final clarification or final interpretation.
- 5.8 EXAMINATION OF DRAWINGS, SPECIFICATIONS, PROJECT SITE
- 5.8.1 The Contractor shall examine carefully the Project Site to become familiar with the conditions to be encountered in performing the work and the requirements of the Contact Documents.
- 5.8.1.1 No extra compensation will be given by reason of the Contractor's misunderstanding or lack of knowledge of the requirements of the work to be accomplished or the conditions to be encountered in performing the project.
- 5.8.1.2 No extra compensation will be given by reason of the Contractor's misunderstanding or lack of knowledge when the existence of differing site, subsurface or physical conditions could have been reasonably discovered or revealed as a result of any examination, investigation, exploration, test or study of the site and contiguous areas required by the bidding requirements or contract documents to be conducted by or for the Contractor.
- When the contract drawings include a log of test borings showing a record of the data obtained by the Department's investigation of subsurface conditions, said log represents only the opinion of the Department as to the character of material encountered in its test borings and at only the location of each boring. The Contractor acknowledges that underground site conditions in Hawaii vary widely. There is no warranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the work or any part of it, or that other conditions may not occur.
- 5.8.3 Reference is made to the Special Conditions for identification of subsurface investigations, reports, explorations and tests utilized by the Department in preparation the Contract Documents. Such reports, drawings, boring logs etc., if any, are not part of the Contract Documents.
- 5.9 COOPERATION BETWEEN THE CONTRACTOR AND THE DEPARTMENT
- 5.9.1 FURNISHING DRAWINGS AND SPECIFICATIONS. Contractor will be supplied copies of the Contract Drawings and Specifications as specified in the Special Conditions. Contractor shall have and maintain at least one unmarked copy of the Contract Drawings and Specifications on the work site, at all times. Contractor shall cooperate with the Project Manager, the Inspector(s), and other contractors in every possible way.
- 5.9.2 SUPERINTENDENT. The Contractor shall have a competent superintendent on the work site as its designated agent. The superintendent shall be able to read and understand the project plans and

specifications and shall be experienced in the type of project being undertaken and the work being performed. The superintendent shall receive instructions from the Project Manager or its authorized representative. The Contractor shall authorize the superintendent to (a) execute the orders and directions of the Project Manager or its authorized representative without delay and (b) promptly supply such materials, equipment, tools, labor and incidentals as may be required to complete the project within the prescribed contract time. The Contractor shall furnish a superintendent regardless of the amount of project work sublet.

- 5.9.2.1 If the superintendent or agent is not present at the work site, the Project Manager shall have the right to suspend the work as described under Section 7.24, SUSPENSION OF WORK.
- 5.9.2.2 The Contractor shall file with the Project Manager a written statement giving the name of the superintendent or agent assigned to the project. The Contractor shall be responsible for notifying the Project Manager in writing of any change in the superintendent or agent.
- 5.9.2.3 The requirements of this Subsection 5.9.2, SUPERINTENDENT may be waived by the Project Manager.
- 5.9.3 ENGINEERING WORK. The Contractor shall properly and accurately lay out the work, perform all engineering work, and furnish all engineering materials and equipment required to establish and maintain all lines, grades, dimensions and elevations called for in the drawings or required in the progress of construction, unless otherwise noted in the contract documents. The Contractor will be held definitely and absolutely responsible for any errors in lines, grades, dimensions and elevations and shall at once, on instruction from the Project Manager, correct and make good such errors or any errors, or faults in the work resulting from errors in engineering performed under the requirements of its contract to the entire satisfaction of the Project Manager. Full compensation for the work shall be included in the prices paid for contract items of work. No additional allowance will be made for the correction of incorrect engineering work.
- 5.9.3.1 The Project Manager shall furnish the requisite bench elevations.
- 5.9.3.2 The Contractor shall locate and verify all lines, grades, dimensions and elevations indicated on the drawings before any excavation, or construction begins. Any discrepancy shall be immediately brought to the attention of the Project Manager; any change shall be made in accordance with the Project Manager's instruction.
- 5.9.3.3 The Contractor shall verify all street survey monuments (horizontal and vertical alignment) prior to final acceptance by the Project Manager in accordance with any governmental requirements.
- 5.9.3.4 The Contractor shall provide a surveyor or Civil Engineer licensed in the State of Hawaii to verify and establish all lines, grades, dimensions and elevations.
- USE OF STRUCTURE OR IMPROVEMENT. The Department shall have the right, at any time during construction of the structure or improvements, to enter same for the purpose of installing by government labor or by any other Contractor or utility any necessary work in connection with the installation of facilities, it being mutually understood and agreed, however, that the Contractors, utilities and the Department will, so far as possible work to the mutual advantage of all, where their several works in the above mentioned or in unforeseen instances touch upon or interfere with each other. As a convenience to those involved, the Project Manager shall allocate the work and designate the sequence of construction in case of controversy between Contractors on separate projects under Department jurisdiction.

- 5.9.4.1 The Department shall also have the right to use the structure, equipment, improvement or any part thereof, at any time after it is considered by the Project Manager as available. In the event that the structure, equipment or any part thereof is so used, the Department shall be responsible for all expenses incidental to such use and any damages resulting from the Department's use.
- 5.9.4.2 Equipment warranty will commence to run before the work is complete when and if the Department begins actual use of the equipment for the purpose for which the equipment was designed and installed.
- 5.9.4.3 If the Department enters the structure for construction and/or occupancy and the Contractor is delayed because of interference by the Department or by extra work resulting from damage which the Contractor is not responsible for, or by extraordinary measures the Contractor must take to accommodate the Department, the Contractor shall be granted an extension of time in accordance with Section 7.21, CONTRACT TIME. However, if such use increases the cost or delays the completion of the remaining portions of work, the Contractor shall be entitled to such extra compensation or extension of time or both, as the Department may determine to be proper. Any additional work necessary will be paid in accordance with Section 8.3, PAYMENT FOR ADDITIONAL WORK.
- 5.10 INSPECTION. The Project Manager, the Department's consultants, inspectors employed by the Department and other representatives duly authorized by the Department shall at all times have access to the work during its construction and shall be furnished with every reasonable facility for ascertaining at any time that the materials and the workmanship are in accordance with the requirements and intentions of the contract. All work done and all materials furnished shall be subject to inspection and acceptance.
- 5.10.1 Such inspection and approval may extend to all or part of the work, and to the preparation, fabrication or manufacture of the materials to be used. By entering into a contract for the supply of materials, equipment or performance of labor in connection with the work, such material and equipment supplier or labor contractor consents to and is subject to the terms of Section 5.9, COOPERATION BETWEEN THE CONTRACTOR AND THE DEPARTMENT to the same extent as the Contractor.
- 5.10.2 AUTHORITY TO SUSPEND OPERATIONS. The Project Manager shall have the authority to suspend operations of any work being improperly performed by issuing a written order giving the reason for shutting down the work. Should the Contractor disregard such written order, the work done thereafter will not be accepted nor paid for.
- 5.10.3 The inspection of the work shall not relieve the Contractor of any of its obligations to fulfill the contract as prescribed. Notwithstanding prior payment and acceptance by the Project Manager, any defective and nonconforming work shall be corrected to comply with the contract requirements. Unsuitable, unspecified or unapproved materials may be rejected.
- 5.10.4 FEDERAL AGENCY INSPECTION. Projects financed in whole or in part with Federal funds shall be subject to inspection and corrective requirements at all times by the Federal Agency involved at no cost to the Department.
- 5.11 REMOVAL OF DEFECTIVE, NON-CONFORMING AND UNAUTHORIZED WORK
- 5.11.1 All work which has been rejected as not conforming to the requirements of the Contract shall be remedied or removed and replaced by the Contractor in an acceptable manner and no compensation

will be allowed for such removal or replacement. Any work done beyond the work limits shown on the drawings and specifications or established by the Project Manager or any additional work done without written authority will be considered as unauthorized and will not be paid for. work so done may be ordered removed at the Contractor's expense.

- 5.11.2 SCHEDULING CORRECTIVE WORK. The Contractor shall perform its corrective or remedial work at the convenience of the Department and shall obtain the Project Manager's approval of its schedule.
- 5.11.3 FAILURE TO CORRECT WORK. Upon failure on the part of the Contractor to comply promptly with any order of the Project Manager made under the provisions of Section 5.10, the Project Manager shall have authority to cause defective work to be remedied or removed and replaced, and unauthorized work to be removed, at the Contractor's expense, and to deduct the costs from any monies due or to become due the Contractor.
- VALUE ENGINEERING INCENTIVE (§3-132 HAR amended by Act 149 SLH 1999). On projects with contract amounts in excess of \$250,000 (two hundred fifty thousand dollars), the following Value Engineering Incentive Clause shall apply to allow the Contractor to share in cost savings that ensue from cost reduction proposals it submits.
- 5.12.1 The Value Engineering Incentive Clause applies to all Value Engineering Change Proposals (cost reduction proposals, hereinafter referred to as (VECP) initiated and developed by the Contractor for changing the drawings, designs, specifications or other requirements of this contract. This clause does not however, apply to any VECP unless it is identified as such by the Contractor at the time of its submission to the Project Manager.
- 5.12.2 VALUE ENGINEERING CHANGE PROPOSAL (VECP). All VECP must:
- 5.12.2.1 Result in a savings to the Department of at least \$4000 (four thousand dollars) by providing less costly items and without impairing any essential functions and characteristics such as service life, reliability, economy of operation, ease of maintenance and all necessary features of the completed work;
- 5.12.2.2 Require, in order to be applied to this Contract, a change order to this Contract; and
- 5.12.2.3 Not adversely impact on the schedule of performance or the Contract completion date.
- 5.12.3 VECP REQUIRED INFORMATION. The VECP will be processed expeditiously and in the same manner as prescribed for any other change order proposal. As a minimum, the following information will be submitted by the Contractor with each proposal:
- 5.12.3.1 A description of the difference between the existing contract requirements and the VECP, and the comparative advantages and disadvantages of each including durability, service life, reliability, economy of operation, ease of maintenance, design safety standards, desired appearance, impacts due to construction and other essential or desirable functions and characteristics as appropriate;
- 5.12.3.2 An itemization of the requirements of the contract which must be changed if the VECP is adopted and a recommendation as to how to make each such change;

- 5.12.3.3 An estimate of the reduction in performance costs that will result from adoption of the VECP taking into account the costs of implementation by the Contractor, including any amounts attributable to subcontracts, and the basis for the estimate;
- 5.12.3.4 A prediction of any effects the VECP would have on other costs to the Department, such as Department furnished property costs, costs of related items, and costs of maintenance and operation over the anticipated life of the material, equipment, or facilities as appropriate; the construction schedule, sequence and time; and bid item totals used for evaluation and payment purposes;
- 5.12.3.5 A statement of the time by which a change order adopting the VECP must be issued so as to obtain the maximum cost reduction during the remainder of this contract noting any effect on the contract time; and 5.12.3.6 The dates of any previous submissions of the VECP, the numbers of any Government contracts under which submitted and the previous actions by the Government, if known.
- 5.12.4 REQUIRED USE OF LICENSED ARCHITECT OR ENGINEER. When, in the judgment of the Project Manager, a VECP alters the design prepared by a registered professional architect or engineer, the Contractor shall ensure the changes to be prepared are by or under the supervision of a licensed professional architect or engineer, and stamped and so certified.
- 5.12.5 Unless and until a change order applies a VECP to a contract, the Contractor shall remain obligated to perform in accordance with the terms of the contract and the Department shall not be liable for delays incurred by the Contractor resulting from the time required for the Department's determination of the acceptability of the VECP.
- 5.12.5.1 The determination of the Project Manager as to the acceptance of any VECP under a contract shall be final.
- 5.12.6 ACCEPTANCE OF VECP. The Project Manager may accept in whole or in part any VECP submitted pursuant to this section by issuing a change order to the Contract. Prior to issuance of the change order, the Contractor shall submit complete final contract documents similar to those of the original Contract showing the accepted changes and the new design and features as well as the following:
- 5.12.6.1 Design calculations;
- 5.12.6.2 The design criteria used; and
- 5.12.6.3 A detailed breakdown of costs and expenses to construct or implement such revisions.
- 5.12.6.4 The change order will identify the final VECP on which it is based.
- VECP PRICE ADJUSTMENTS. When a VECP is accepted under a contract, an adjustment in the contract price shall be made in accordance with Section 4.4, PRICE ADJUSTMENT. The adjustment shall first be established by determining the effect on the Contractor's cost of implementing the change, including any amount attributable to subcontractors and to the Department's charges to the Contractor for architectural, engineering, or other consultant services, and the staff time required to examine and review the proposal. The contract price shall then be reduced by fifty percent (50%) of the net estimated decrease in the cost of performance.

- 5.12.8 The Contractor may restrict the Department's right to use the data or information or both, on any sheet of a VECP or of the supporting data, submitted pursuant to this Subsection, if it is stated on that sheet as follows:
- 5.12.8.1 "This data or information or both shall not be disclosed outside the Department or be duplicated, used, or disclosed, in whole or in part, for any purpose other than to evaluate this VECP. This restriction shall not limit the Department's right to use this data or information or both if obtained from another source, or is otherwise available, without limitations. If this VECP is accepted by the Department by issuance of a change order after the use of this data or information or both in such an evaluation, the Department shall have the right to duplicate, use and disclose any data or information or both pertinent to the proposal as accepted in any manner and for any purpose whatsoever and have others so do."
- 5.12.9 In the event of acceptance of a VECP, the Department shall have all rights to use, duplicate or disclose in whole or in part in any manner and for any purpose whatsoever, and to have or permit others to do so, any data or information or both reasonably necessary to fully utilize such proposal.
- 5.12.10 The Contractor shall submit with each VECP all required information and provide all additional information as may be required by the Project Manager to evaluate and implement the VECP. The cost for preparing the VECP shall be the Contractor's responsibility, and any part of the Contractor's cost for implementing the change shall be due only when the proposal is accepted and a change order is issued.
- 5.12.11 If the service of the Department's architect, Project Manager or consultant is necessary to review and evaluate a VECP, the cost therefor shall be paid for by the Contractor.
- 5.12.12 Each VECP shall be evaluated as applicable to this contract, and past acceptance on another Department project for a similar item shall not be automatic grounds for approval.
- 5.12.13 The method by which the Contractor will share a portion of the cost savings from an accepted VECP shall be for this contract only, and no consideration shall be made for future acquisition, royalty type payment or collateral savings.
- 5.12.13.1 The Department may accept the proposed VECP in whole or in part. The Chairman shall issue a contract change order to identify and describe the accepted VECP.
- 5.13 SUBCONTRACTS. Nothing contained in the contract documents shall create a contractual relationship between the Department and any subcontractor.
- 5.13.1 SUBSTITUTING SUBCONTRACTORS. Contractors may enter into subcontracts only with subcontractors listed in the proposal. No subcontractor may be added or deleted and substitutions will be allowed only if the subcontractor:
- 5.13.1.1 Fails, refuses or is unable to enter into a subcontract; or
- 5.13.1.2 Becomes insolvent; or
- 5.13.1.3 Has its subcontractor's license suspended or revoked; or
- 5.13.1.4 Has defaulted or has otherwise breached the subcontract in connection with the subcontracted work; or

- 5.13.1.5 Is unable to comply with other requirements of law applicable to contractors, subcontractors and public works projects.
- 5.13.2 Requesting Approval to Substitute a Subcontractor. Requests to substitute a subcontractor shall be submitted to the Project Manager for approval. Contractor agrees to hold the Department harmless and indemnify the Department for all claims, liabilities, or damages whatsoever, including attorney's fees arising out of or related to the approval or disapproval of the substitution.
- 5.13.3 The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of the General Conditions and the other contract documents insofar as applicable to the work of the subcontractor and to give the Contractor the same rights regarding the termination of a subcontractor as the Department may exercise over the Contractor.
- 5.13.4 The Contractor shall not sponsor any unliquidated subcontractor's claim against the Department and shall defend, indemnify and hold the Department harmless against any direct claims by its subcontractors. Any claim for additional compensation by a subcontractor in connection with the work shall be made only against the Contractor. The Contractor may not assert any such claim against the Department until the liability of the Contractor has been unconditionally established by negotiation, arbitration or litigation, and the amount due the subcontractor has been determined, save for interest due.
- 5.13.5 Once a subcontractor's claim is established, should the Contractor intend to make the claim against the Department, it shall follow the procedure set forth under Section 7.25, DISPUTES AND CLAIMS.
- 5.13.6 SUBCONTRACTING. Contractor shall perform with its own organization, work amounting to not less than twenty percent (20%) of the total contract cost, exclusive of costs for materials and equipment the Contractor purchases for installation by its subcontractors, except that any items designated by the Department in the contract as "specialty items" may be performed by a subcontractor and the cost of any such specialty items so performed by the subcontractor may be deducted from the total contract cost before computing the amount of work required to be performed by the Contractor with its own organization. For the purposes of this section, the Contractor's work is defined as: direct cost labor for contractor's forces; direct cost materials installed by the contractor's direct cost labor force; direct cost equipment, either owned or leased, used by the contractor's direct cost labor force; and field overhead cost to include: field supervision, field office trailer (if any), field office equipment and supplies, etc.

~END OF ARTICLE 5~

ARTICLE 6: CONTROL OF MATERIALS AND EQUIPMENT

- 6.1 MATERIALS AND EQUIPMENT. Contractor shall furnish, pay for and install all material and equipment as called for in the drawings and specifications. Materials and equipment shall be new and the most suitable for the purpose intended unless otherwise specified. The Department does not guarantee that the specified or pre-qualified product listed in the drawings and specifications are available at the time of bid or during the contract period.
- 6.2 SOURCE OF SUPPLY AND QUALITY OF MATERIALS
- 6.2.1 Only materials conforming to the drawings and specifications and, when required by the contract have been accepted by the Project Manager, shall be used. In order to expedite the inspection and testing of materials, at the request of the Project Manager, the Contractor shall identify its proposed sources of materials within ten (10) days after notification by the Project Manager.
- At the option of the Project Manager, the materials may be accepted by the Project Manager at the source of supply before delivery is started. Representative preliminary samples of the character and quantity prescribed shall be submitted by the Contractor or producer for examination and tested in accordance with the methods referred to under samples and tests.
- PROJECT MANAGER'S AUTHORIZATION TO TEST MATERIALS. Materials proposed to be used may be inspected and tested whenever the Project Manager deems necessary to determine conformance to the specified requirements. The cost of testing shall be borne by the Contractor. However, should test results show that the material(s) is in compliance with the specified requirements; the cost of the testing will be borne by the Department.
- 6.2.4 UNACCEPTABLE MATERIALS. In the event material(s) are found to be unacceptable, the Contractor shall cease their use, remove the unacceptable material(s) that have already been installed or applied, and furnish acceptable materials all at no additional cost to the Department. No material which is in any way unfit for use shall be used.
- 6.3 SUBSTITUTION OF MATERIALS AND EQUIPMENT
- 6.3.1 SUBSTITUTION OF MATERIALS AND EQUIPMENT BEFORE BID OPENING For materials and equipment submitted in compliance with Instructions to Bidders, if after installing the substituted product, an unlisted variance is discovered the Contractor shall immediately replace the product with a specified product at no cost to the Department.
- 6.3.2 SUBSTITUTION AFTER CONTRACT AWARD. Subject to the Project Manager's determination if the material or equipment is equal to the one specified or prequalified, substitution of material or equipment may be allowed after the Letter of Award is issued only:
- 6.3.2.1 If the specified or prequalified item is delayed by unforeseeable contingencies beyond the control of the Contractor which would cause a delay in the project completion; or
- 6.3.2.2 If any specified or prequalified item is found to be unusable or unavailable due to a change by the manufacturer or other circumstances; or
- 6.3.2.3 If the Contractor desires to provide a more recently developed material, equipment, or manufactured model from the same named manufacturer than the one specified or prequalified; or
- 6.3.2.4 If the specified material and / or equipment inadvertently lists only a single manufacturer.

- A substitution request after the Contract is awarded shall be fully explained in writing. Contractor shall provide brochures showing that the substitute material and / or equipment is equal or better in essential features and also provide a matrix showing comparison of the essential features. Contractor shall justify its request and include quantities and unit prices involved, respective supplier's price quotations and such other documents necessary to fully support the request. Any savings in cost will be credited to the Department. Contractor shall absorb any additional cost for the substitute item(s) or for its installation. Submitting a substitution request, does not imply that substitutions, for brand name specified materials and equipment will be allowed. The Project Manager may reject and deny any request deemed irregular or not in the best interest of the Department. A request for substitution shall not in any way be grounds for an extension of contract time. At the discretion of the Project Manager, a time extension may be granted for an approved substitution.
- 6.4 ASBESTOS CONTAINING MATERIALS. The use of materials or equipment containing asbestos is prohibited under this contract. Contractor warrants that all materials and equipment incorporated in the project are asbestos-free.

6.5 TEST SAMPLES

- 6.5.1 The Project Manager may require any or all materials to be tested by means of samples or otherwise. Contractor shall collect and forward samples requested by the Project Manager. Contractor shall not use or incorporate any material represented by the samples until all required tests have been made and the material has been accepted. In all cases, the Contractor shall furnish the required samples without charge. Where samples are required from the completed work, the Contractor shall cut and furnish samples from the completed work. Samples so removed shall be replaced with identical material and refinished. No additional compensation will be allowed for furnishing test samples and their replacement with new materials.
- 6.5.2 Tests of the material samples will be made in accordance with the latest standards of the American Society for Testing and Materials (ASTM), as amended prior to the contract date unless otherwise provided. In cases where a particular test method is necessary or specifications and serial numbers are stipulated, the test shall be made by the method stated in the above-mentioned publication. Where the test reference is the American Association of State Highway and Transportation Officials (AASHTO), it means the specifications and serial numbers of the latest edition and amendments prior to the bid date.
- 6.5.3 The Project Manager may, at no extra cost to the Department retest any materials which have been tested and accepted at the source of supply after the same has been delivered to the work site. The Project Manager shall reject all materials which, when retested, do not meet the requirements of the Contract.

6.6 MATERIAL SAMPLES

- 6.6.1 The Contractor shall furnish all samples required by the drawings and specifications or that may be requested by the Project Manager of any and all materials or equipment it proposes to use. Unless specifically required, samples are not to be submitted with the bid.
- No materials or equipment of which samples are required shall be used on the work until the Project Manager has received and accepted the samples. If the Contractor proceeds to use such materials before the Project Manager accepts the samples, the Contractor shall bear the risk.

- 6.6.3 Contractor shall furnish two (2) copies of a transmittal letter with each shipment of samples. The letter shall provide a list of the samples, the name of the building or work for which the materials are intended and the brands of the materials and names of the manufacturers. Also, each sample submitted shall have a label indicating the material represented, its place of origin, the names of the producer, the Contractor and the building or work for which the material is intended. Samples of finished materials shall be marked to indicate where the materials represented are required by the drawings or specifications.
- Acceptance of any sample(s) shall be only for the characteristics or for the uses named in such acceptance and for no other purpose. Acceptance of samples shall not change or modify any contract requirement. All samples will be provided by the Contractor at no extra cost to the Department. See also Section 5.5, SHOP DRAWINGS AND OTHER SUBMITTALS.
- NON-CONFORMING MATERIALS. All materials not conforming to the requirements of this contract documents, whether in place or not, shall be rejected and removed immediately from the site of work unless otherwise permitted by the Project Manager in writing. No rejected material which has subsequently been made to conform shall be used unless and until written acceptance has been given by the Project Manager. If the Contractor fails to comply forthwith with any order of the Project Manager made under the provisions of this Section 6.7, NON-CONFORMING MATERIALS the Project Manager shall have the authority to remove and replace non-conforming materials and charge the cost of removal and replacement to the Contractor.
- 6.8 HANDLING MATERIALS. Contractor shall handle all materials to preserve their quality and fitness for work. Transport aggregates from the source or storage site to the work in tight vehicles to prevent loss or segregation of materials after loading and measuring.
- 6.9 STORAGE OF MATERIALS. Contractor shall store all materials to preserve their quality and fitness for the work. Unless otherwise provided, any portion of the project site within the Project Contract Limit not required for public travel may be used for storage purposes and for the Contractor's plant and equipment. Any additional space required shall be provided by the Contractor at its expense subject to the Project Manager's acceptance. Contractor shall store materials on wooden platforms or other hard, clean surfaces and covered to protect it from the weather and damage. Stored materials shall be located to allow prompt inspection.
- 6.10 PROPERTY RIGHTS IN MATERIALS. Nothing in the contract shall be construed to vest in the Contractor any right to any materials and equipment after such materials and equipment have been attached, affixed to, or placed in the work.
- ANTITRUST CLAIMS. The STATE and the CONTRACTOR recognized that in actual economic practice, overcharges resulting from antitrust violations are in fact usually borne by the purchaser. Therefore, the CONTRACTOR hereby assigns to STATE any and all claims for overcharges as to goods and material purchased in connection with this Contract, except as to overcharges which result from violations commencing after the price is established under this Contract and which are not passed on to the STATE under an escalation clause.

~END OF SECTION 6~

ARTICLE 7: PROSECUTION AND PROGRESS (Including Legal Relations and Responsibility)

7.1 PROSECUTION OF THE WORK

- 7.1.1 After approval of the Contract by the Chairman, a Notice to Proceed will be given to the Contractor as described in Section 3.10, NOTICE TO PROCEED. The Notice to Proceed will indicate the date the Contractor is expected to begin the construction and from which date contract time will be charged.
- 7.1.2 The Contractor shall begin work no later than ten (10) working days from the date in the Notice to Proceed and shall diligently prosecute the same to completion within the contract time allowed. The Contractor shall notify the Project Manager at least three (3) working days before beginning work.
- 7.1.3 If any subsequent suspension and resumption of work occurs, the Contractor shall notify the Project Manager at least twenty-four (24) hours before stopping or restarting actual field operations.
- 7.1.4 WORKING PRIOR TO NOTICE TO PROCEED. The Contractor shall not begin work before the date in the Notice to Proceed. Should the Contractor begin work before receiving the Notice to Proceed, any work performed in advance of the specified date will be considered as having been done at the Contractor's risk and as a volunteer and subject to the following conditions:
- 7.1.4.1 Under no circumstances shall the Contractor commence work on site until it has notified the Project Manager of its intentions and has been advised by the Project Manager in writing that the project site is available to the Contractor. The project site will not be made available until the Contractor has complied with commencement requirements under Section 7.2, COMMENCEMENT REQUIREMENTS.
- 7.1.4.2 In the event the contract is not executed, the Contractor shall, at its own expense, do such work as is necessary to leave the site in a neat condition to the satisfaction of the Project Manager. The Contractor shall not be reimbursed for any work performed.
- 7.1.4.3 All work done prior to the Notice to Proceed shall be performed in accordance with the Contract Documents, but will only be considered authorized work and be paid for as provided in the Contract after the Notice to Proceed is issued.
- 7.1.5 For repairs and/or renovations of existing buildings, unless otherwise permitted by the Project Manager, the Contractor shall not commence with the physical construction unless all or sufficient amount of materials are available for either continuous construction or completion of a specified portion of the work. When construction is started, the Contractor shall work expeditiously and pursue the work diligently until it is complete. If only a portion of the work is to be done in stages, the Contractor shall leave the area safe and usable for the user agency at the end of each stage.
- 7.2 COMMENCEMENT REQUIREMENTS. Prior to beginning work on site, the Contractor shall submit the following to the Project Manager:
- 7.2.1 Identification of the Superintendent or authorized representative on the job site. Refer to Section 5.9, COOPERATION BETWEEN THE CONTRACTOR AND THE DEPARTMENT;
- 7.2.1.1 Identification of the surveyor who shall be licensed in the State of Hawaii and will work for it throughout the course of the project. Refer to Section 5.9.3.4.

- 7.2.2 Proposed Working Hours on the job. Refer to Section 7.5, NORMAL WORKING HOURS;
- 7.2.3 Permits and Licenses. Refer to Section 7.4, PERMITS AND LICENSES;
- 7.2.4 Schedule of Prices to be accepted for the agreed Monthly Payment Application. Unless the proposal provides unit price bids on all items in this project, the successful Bidder will be required, after the award of contract, to submit a schedule of prices for the various items of construction included in the contract. For projects involving more than a single building and / or facility, the breakdown cost shall reflect a separate schedule of prices for the various items of work for each building and/or facility. The sum of the prices submitted for the various items must equal the lump sum bid in the Bidder's proposal. This schedule will be subject to acceptance by the Project Manager who may reject same and require the Bidder to submit another or several other schedules if in the Project Manager's opinion the prices are unbalanced or not sufficiently detailed. This schedule of prices shall be used for the purpose of determining the value of monthly payments due the Contractor for work installed complete in place; and may be used as the basis for determining cost and credit of added or deleted items of work, respectively;
- 7.2.4.1 The Contractor shall estimate at the close of each month the percentage of work completed under each of the various construction items during such month and submit the Monthly Payment Application to the Project Manager for review and approval. The Contractor shall be paid the approved percentage of the price established for each item less the retention provided in Section 8.4, PROGRESS AND/OR PARTIAL PAYMENTS; and
- 7.2.5 PROOF OF INSURANCE COVERAGE. Certificate of Insurance or other documentary evidence satisfactory to the Project Manager that the Contractor has in place all insurance coverage required by the contract. Refer to Section 7.3, INSURANCE REQUIREMENTS.
- 7.2.6 Until such time as the above items are processed and approved, the Contractor shall not be allowed to commence on any operations unless authorized by the Project Manager.
- 7.3 INSURANCE REQUIREMENTS
- 7.3.1 OBLIGATION OF CONTRACTOR. Contractor shall not commence any work until it obtains, at its own expense, all required herein insurance. Such insurance shall be provided by an insurance company authorized by the laws of the State to issue such insurance in the State of Hawaii. Coverage by a "Non-Admitted" carrier is permissible provided the carrier has a Best's Rating of "A-VII" or better.
- 7.3.2 All insurance described herein will be maintained by the Contractor for the full period of the contract and in no event will be terminated or otherwise allowed to lapse prior to written certification of final acceptance of the work by the Department.
- 7.3.3 Certificate(s) of Insurance acceptable to the Department shall be filed with the Project Manager prior to commencement of the work. Certificates shall identify if the insurance company is a "captive" insurance company or a "Non-Admitted" carrier to the State of Hawaii. The Best's rating must be stated for the "Non-Admitted" carrier. Certificates shall contain a provision that coverage(s) being certified will not be cancelled or materially changed without giving the Project Manager at least thirty (30) days prior written notice. The Department is to be named as Additional Insured on any of the required insurance and it shall be so noted on the certificate. Should any policy be cancelled before final acceptance of the work by the Department, and the Contractor fails to immediately procure replacement insurance as specified, the Department, in addition to all other remedies it may have for

such breach, reserves the right to procure such insurance and deduct the cost thereof from any money due to the Contractor.

- 7.3.4 Nothing contained in these insurance requirements is to be construed as limiting the extent of Contractor's responsibility for payment of damages resulting from its operations under this Contract, including the Contractor's obligation to pay liquidated damages, nor shall it affect the Contractor's separate and independent duty to defend, indemnify and hold the Department harmless pursuant to other provisions of this Contract. In no instance will the Department's exercise of an option to occupy and use completed portions of the work relieve the Contractor of its obligation to maintain the required insurance until the date of final acceptance of the work.
- 7.3.5 All insurance described herein shall be primary and cover the insured for all work to be performed under the Contract, all work performed incidental thereto or directly or indirectly connected therewith, including traffic detour work or other work performed outside the work area and all change order work.
- 7.3.6 The Contractor shall, from time to time, furnish the Project Manager, when requested, satisfactory proof of coverage of each type of insurance required covering the work. Failure to comply with the Project Manager's request may result in suspension of the work, and shall be sufficient grounds to withhold future payments due the Contractor and to terminate the contract for Contractor's default.
- 7.3.7 TYPES OF INSURANCE. Contractor shall purchase and maintain insurance described below which shall provide coverage against claims arising out of the Contractor's operations under the Contract, whether such operations be by the Contractor itself or by any subcontractor or by anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable.
- 7.3.7.1 WORKER'S COMPENSATION. The Contractor shall obtain worker's compensation insurance for all persons whom they employ in carrying out the work under this contract. This insurance shall be in strict conformity with the requirements of the most current and applicable State of Hawaii Worker's Compensation Insurance laws in effect on the date of the execution of this contract and as modified during the duration of the contract.
- 7.3.7.2 COMMERCIAL GENERAL LIABILITY INSURANCE AND AUTOMOBILE INSURANCE. Contractor's commercial general liability insurance and automobile liability insurance shall both be obtained in a combined, single limit of not less than \$1,000,000 (one million dollars) unless otherwise indicated in the Special Conditions per occurrence that shall include coverage for bodily injury, sickness, disease or death of any person, arising directly or indirectly out of, in connection with, the performance of work under this contract.
- 7.3.7.3 "General Liability and Automobile Insurance. CONTRACTOR shall maintain, at its own expense, the minimum insurance coverage specified below, or as amended in the Special Conditions, throughout the term of this Contact.
 - a. General Liability insurance providing coverage of no less than ONE MILLION DOLLARS (\$1,000,000.00) per occurrence and TWO MILLION DOLLARS (\$2,000,000.00) in the aggregate.
 - b. Automobile insurance providing coverage of no less than ONE MILLION DOLLARS (\$1,000,000.00) per accident."
- 7.3.7.4 The Contractor shall either (a) Require each of its subcontractors to procure and to maintain during the life of its subcontract, subcontractor's comprehensive general liability, automobile liability and

property damage liability insurance of the type and in the same amounts specified herein; or (b) Insure the activities of its subcontractors in its own policy.

7.3.7.5 BUILDERS RISK INSURANCE. Unless excluded by the Special Conditions of this contract, the Contractor shall provide builder's risk insurance during the progress of the work and until final acceptance by the Department upon completion of the contract. It shall be "All Risk" (including but not limited to earthquake, windstorm and flood damage) completed value insurance coverage on all completed work and work in progress to the full replacement value thereof. Such insurance shall include the Department as an additional named insured. The Contractor shall submit to the Project Manager for its approval all items deemed to be uninsurable. The policy may provide for a deductible in an amount of up to twenty five percent (25%) of the amount insured by the policy. With respect to all losses up to any deductible amount, the relationship between the Contractor and the Department shall be that of insurer and the additional insured respectively as if no deductible existed. The Contractor is responsible for theft, if any item of the contract is stolen prior to, or after installation, until the work is accepted by the Department. Progress payment does not constitute acceptance.

7.4 PERMITS AND LICENSES

- 7.4.1 The Department or its representative may process Federal (e.g. Army Corps of Engineers), State and county permit applications. The Contractor shall pick up the preprocessed Permits at the appropriate governmental agency and pay the required fees. Other permits necessary for the proper execution of the work such as utility connection permits, elevator installation permits etc., unless processed by the Department and paid for by the Contractor, shall be obtained and paid for by the Contractor.
- 7.4.2 Until such time as the above permits are approved, the Contractor shall not be allowed to commence any operations without written approval of the Project Manager.
- 7.4.3 The Project Manager reserves the right to waive application and processing of the building permit.
- 7.5 NORMAL WORKING HOURS. Prior to beginning operations, unless otherwise established by the Department, the Contractor shall notify the Project Manager in writing of the time in hours and minutes, A.M. and P.M. respectively, at which it desires to begin and end the day's work. If the Contractor desires to change the working hours, it shall request the Project Manager's approval three (3) consecutive working days prior to the date of the change.

7.6 HOURS OF LABOR (§104-2 HRS)

- No laborer or mechanic employed on the job site of any public work of the Department or any political sub-division thereof shall be permitted or required to work on Saturday, Sunday or a legal holiday of the State or in excess of eight (8) hours on any other day unless the laborer or mechanic receives overtime compensation for all hours worked on Saturday, Sunday and a legal holiday of the State or in excess of eight (8) hours on any other day. For the purposes of determining overtime compensation under this Section 7.6, HOURS OF LABOR (§104-2 HRS) the basic hourly rate of any laborer or mechanic shall not be less than the basic hourly rate determined by the Department of Labor and Industrial Relations to be the prevailing basic hourly rate for corresponding classes of laborers and mechanics on projects of similar character in the Department.
- 7.6.2 Overtime compensation means compensation based on one and one-half times the laborers or mechanics basic hourly rate of pay plus the cost to an employer of furnishing a laborer or mechanic with fringe benefits.

- 7.7 PREVAILING WAGES (State §104-2 HRS & Federal Davis-Bacon)
- 7.7.1 The Contractor shall at all time observe and comply with all provisions of Chapter 104, HRS, the significant requirements of which are emphasized in the Department of Labor and Industrial Relations Publication No. H104-3 entitled "Requirements of Chapter 104, Hawaii Revised Statutes, Wages and Hours of Employees on Public Works Law". The Contractor must also comply with all provisions of Federal Davis-Bacon Act (40 U.S.C. 276-276a-5 and Code of Federal Regulation (CFR) Title 29 and related Acts.
- 7.7.2 WAGE RATE SCHEDULE. The wage rate schedule may not be physically enclosed in the bid documents. However, the wage rate schedule is incorporated herein by reference and made a part of the Bid and Contract Documents. The bidder must obtain and use the latest minimum rates ten (10) days prior to the date set for the bid opening of bids. The wage rate schedule may be obtained from the DHHL, Labor Compliance Specialist, Hale Kalanianaole, 91-5420 Kapolei Parkway, Kapolei, Hawaii, 96707 or, State Department of Labor and Industrial Relations web site:

http://labor.hawaii.gov/rs/home/wages/72-2/

or the Federal Department of Labor (Davis-Bacon) wage rate schedule web site:

http://www.wdol.gov.

- 7.7.3 The Contractor or its subcontractor(s) shall pay all laborers and mechanics employed on the job site, unconditionally and not less often than once a week, and without deduction or rebate on any account except as allowed by law, the full amounts of their wages including overtime, accrued to not more than five (5) working days prior to the time of payment, at wage rates not less than those stated in the contract, regardless of any contractual relationship which may be alleged to exist between the Contractor and subcontractor and such laborers and mechanics. The wages stated in the contract shall not be less than the minimum prevailing wages (basic hourly rate plus fringe benefits), as determined by the of Labor and Industrial Relations and published in wage rate schedules. Any increase in wage rates, as determined by the of Labor and Industrial Relations and issued in the wage rate schedule, shall be applicable during the performance of the contract, in accordance with Section 104-2(a) and (b), Hawaii Revised Statutes. Notwithstanding the provisions of the original contract, if the of Labor and Industrial Relations determines that prevailing wages have increased during the performance of the contract, the rate of pay of laborers and mechanics shall be raised accordingly.
- 7.7.4 The applicable wage rate schedule shall be physically included in the Contract Documents executed by the successful Bidder.
- 7.7.5 POSTING WAGE RATE SCHEDULE. The rates of wages to be paid shall be posted by the Contractor in a prominent and easily accessible place at the job site and a copy of such wages required to be posted shall be given to each laborer and mechanic employed under the contract by the Contractor at the time the person is employed thereunder, provided that where there is a collective bargaining agreement, the Contractor does not have to provide its employees the wage rate schedules. Any revisions to the schedule of wages issued by the Department of Labor and Industrial Relations during the course of the Contract shall also be posted by the Contractor and a copy provided to each laborer and mechanic employed under the Contract as required above.
- 7.7.6 The Chairman may withhold from the Contractor so much of the accrued payments as the Chairman may consider necessary to pay to laborers and mechanics employed by the Contractor or any

subcontractor on the job site. The accrued payments withheld shall be the difference between the wages required by this Contract and the wages actually received by such laborers or mechanics.

7.8 FAILURE TO PAY REQUIRED WAGES (§104-4, HRS or Federal Davis-Bacon). If the Department finds that any laborer or mechanic employed on the job site by the Contractor or any subcontractor has been or is being paid wages at a rate less than the required rate by the Contract, or has not received their full overtime compensation, the Department may, by written notice to the Contractor, terminate its right, or the right of any subcontractor, to proceed with the work or with the part of the work on which the required wages or overtime compensation have not been paid and may complete such work or part by contract or otherwise, and the Contractor and its sureties shall be liable to the Department for any excess costs occasioned thereby.

7.9 PAYROLLS AND PAYROLL RECORDS (§104-3 HRS)

- 7.9.1 A certified copy of each weekly payroll shall be submitted to the Chairman within seven (7) calendar days after the end of each weekly payroll period. Failure to do so on a timely basis shall be cause for withholding of payments, termination of the contract, and/or debarment. The Contractor shall be responsible for the timely submission of certified copies of payrolls of all subcontractors. The certification shall affirm that payrolls are correct and complete, that the wage rates contained therein are not less than the applicable rates contained in the wage determination decision, any amendments thereto during the period of the contract, and that the classifications set forth for each laborer and mechanic conform with the work they performed.
- 7.9.2 Payroll records for all laborers and mechanics working at the site of the work shall be maintained by the General Contractor and its subcontractors, if any, during the course of the work and preserved for a period of four (4) years thereafter. Such records shall contain the name of each employee, their address, their correct classification, rate of pay, daily and weekly number of hours worked, itemized deductions made and actual wages paid. Such records shall be made available for inspection at a place designated by the Chairman, the U.S. Department of Labor and any authorized persons who may also interview employees during working hours on the job site.
- 7.9.3 Note that the falsification of certifications noted in this Section 7.9, PAYROLLS AND PAYROLL RECORDS (§104-3 HRS) may subject the Contractor or subcontractor to penalties and debarment under the laws referenced in Section 7.14, LAWS TO BE OBSERVED and / or criminal prosecution.

7.10 OVERTIME AND NIGHT WORK

- 7.10.1 Overtime work shall be considered as work performed in excess of eight (8) hours in any one (1) day or work performed on Saturday, Sunday or legal holiday of the State. Overtime and night work are permissible when approved by the Project Manager in writing, or as called for elsewhere within these Contract Documents.
- 7.10.2 OVERTIME NOTIFICATION. Contractor shall inform the Project Manager in writing at least two (2) working days in advance as to exactly what specific work is to be done during any overtime and night period to ensure that proper inspection will be available.
- 7.10.3 In the event that work other than that contained in the above notification is performed and for which the Project Manager determines Department inspection services were necessary but not available because of the lack of notification, the Contractor may be required to remove all such work and perform the work over again in the presence of Department inspection personnel.

- 7.10.4 Any hours worked in excess of the normal eight (8) working hours per day or on Saturdays, Sundays or legal State holidays will not be considered a working day.
- 7.10.5 The Department hereby reserves the right to cancel the overtime, night, Saturday, Sunday or legal State holiday work when it is found that work during these periods is detrimental to the public welfare or the user agency.

7.11 OVERTIME AND NIGHT PAYMENT FOR DEPARTMENT INSPECTION SERVICE

- 7.11.1 Whenever the Contractor's operations require the Department's inspection and staff personnel to work overtime or at night, the Contractor shall reimburse the Department for the cost of such services unless otherwise instructed in the Contract. The Project Manager will notify the Contractor of the minimum number of required Department employees and other personnel engaged by the Department prior to the start of any such work. The costs chargeable to the Contractor shall include but not be limited to the following:
- 7.11.1.1 The cost of salaries which are determined by the Department and includes overtime and night time differential for the Department's staff and inspection personnel. In addition to the cost of the salaries, the Contractor shall reimburse the Department's share of contributions to the employee's retirement, medical plan, social security, vacation, sick leave, worker's compensation funds, per diem, and other applicable fringe benefits and overhead expenses;
- 7.11.1.2 The transportation cost incurred by the Department's staff and inspection personnel which are based on established rental rates or mileage allowance in use by the Department for the particular equipment or vehicle; and/or
- 7.11.1.3 Fees and other costs billed the Department by Consultants engaged on the project for overtime and/or night time work.
- 7.11.2 PAYMENT FOR INSPECTION SERVICES. The monies due the Department for staff and inspection work and use of vehicles and equipment as determined in Subsection 7.11.1, OVERTIME AND NIGHT PAYMENT FOR DEPARTMENT INSPECTION SERVICE shall be deducted from the monies due or to become due the Contractor. In any and all events, the Contractor shall not pay the Department's employees directly.

7.12 LIMITATIONS OF OPERATIONS

- 7.12.1 Contractor shall at all times conduct the work in such manner and in such sequence as will ensure the least practicable interference with pedestrian and motor traffic passageways. The Contractor shall furnish convenient detours and provide and plan other appropriate signs, flashers, personnel, warnings, barricades and other devices for handling pedestrian and motor traffic.
- 7.12.2 In the event that other contractors are also employed on the job site, the Contractor shall arrange its work and dispose of materials so as not to interfere with the operations of the other contractors engaged upon adjacent work. The Contractor shall join its work to that of others and existing buildings in a proper manner, and in accordance with the drawings and specifications, and perform its work in the proper sequence in relation to that of others, all as may be directed by the Project Manager.

- 7.12.3 Each Contractor shall be responsible for any damage done by it to work performed by another contractor. Each Contractor shall conduct its operations and maintain the work in such condition that no fugitive dust shall be created and adequate drainage shall be in effect at all times.
- 7.12.4 In the event that the Contractor fails to prosecute its work as provided in this Section 7.12, LIMITATIONS OF OPERATIONS or disregards the directions of the Project Manager, the Project Manager may suspend the work until such time as the Contractor provides for the prosecution of the work with minimum interference to traffic and passageways or other contractors, dust control, adequate drainage, the repair of damage and complies with the direction of the Project Manager. No payment will be made to the Contractor for the costs of such suspension.
- 7.13 ASSIGNMENT OR CHANGE OF NAME (§3-125-14 HAR)
- 5.13.1 SUBCONTRACTS AND ASSIGNMENT. The CONTRACTOR shall not assign or subcontract any of the CONTRACTOR's duties, obligations, or interests under this Contract and no such assignment or subcontract shall be effective unless (i) the CONTRACTOR obtains the prior written consent of the STATE and (ii) the CONTRACTOR's assignee or subcontractor submits to the STATE a tax clearance certificate from the of Taxation, State of Hawaii, showing that all delinquent taxes, if any, levied or accrued under state law against the CONTRACTOR's assignee or subcontractor have been paid. Additionally, no assignment by the CONTRACTOR of the CONTRACTOR's right to compensation under this Contract shall be effective unless and until the assignment is approved by the Comptroller of the State of Hawaii, as provided in Section 40-58, HRS.
- 7.13.2 RECOGNITION OF A SUCCESSOR IN INTEREST. When in the best interest of the State, a successor in interest may be recognized in an assignment Contract in which the STATE, the CONTRACTOR and the assignee or transferee (hereinafter referred to as the "Assignee") agree that:
- 7.13.2.1 The Assignee assumes all of the CONTRACTOR's obligations;
- 7.13.2.2 The CONTRACTOR remains liable for all obligations under this Contract but waives all rights under this Contract as against the STATE; and
- 7.13.2.3 The CONTRACTOR shall continue to furnish, and the Assignee shall also furnish, all required bonds.
- 7.13.3 CHANGE OF NAME. When the CONTRACTOR asks to change the name in which it holds this Contract with the STATE, the procurement officer of the purchasing agency (hereinafter referred to as the "Agency procurement officer") shall, upon receipt of a document acceptable or satisfactory to the Agency procurement officer indicating change of name (for example, an amendment to the CONTRACTOR's articles of incorporation), enter into an amendment to this Contract with the CONTRACTOR to effect such a change of name. The amendment to this Contract changing the CONTRACTOR's name shall specifically indicate that no other terms and conditions of this Contract are thereby changed.
- 7.13.4 REPORTS. All assignment Contracts and amendments to this Contract effecting changes of the CONTRACTOR's name or novations hereunder shall be reported to the CPO within thirty days of the date that the assignment Contract or amendment becomes effective.
- 7.13.5 ACTIONS AFFECTING MORE THAN ONE PURCHASING AGENCY. Notwithstanding the provisions of Subsections 7.13.2 through 7.13.4 herein, when the CONTRACTOR holds Contracts

with more than one purchasing agency of the State, the assignment Contracts and the novation and change of name amendments herein authorized shall be processed only through the CPO's office.

- 7.14 LAWS TO BE OBSERVED. The CONTRACTOR shall comply with all federal, state, and county laws, ordinances, codes, rules, and regulations, as the same may be amended from time to time, that in any way affect the CONTRACTOR's performance of this Contract.
- 7.14.1 The Contractor at all times shall observe and comply with all Federal, State and local laws or ordinances, rules and regulations which in any manner affect those engaged or employed in the work, the materials used in the work, and the conduct of the work. The Contractor shall also comply with all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the work. Any reference to such laws, ordinances, rules and regulations shall include any amendments thereto before and after the date of this Contract.
- 7.14.2 The Contractor shall defend, protect, hold harmless and indemnify the State and its departments and agencies and all their officers, representatives, employees or agents against any claim or liability arising from or based on the violation of any such laws, ordinances, rules and regulations, orders or decrees, whether such violation is committed by the Contractor or its Subcontractor(s) or any employee of either or both. If any discrepancy or inconsistency is discovered in the contract for the work in relation to any such laws, ordinances, rules and regulations, orders or decrees, the Contractor shall forthwith report the same to the Project Manager in writing.
- While the Contractor must comply with all applicable laws, attention is directed to: Wage and Hours of Employees on Public Works, Chapter 104, Hawaii Revised Statutes (HRS); Hawaii Public Procurement Code, Authority to debar or suspend, Section 103D-702, HRS; Hawaii Employment Relations Act, Chapter 377, HRS; Hawaii Employment Security Law, Chapter 383, HRS; Worker's Compensation Law, Chapter 386, HRS; Wage and Hour Law, Chapter 387, HRS; Occupational Safety and Health, Chapter 396, HRS; and Authority to Debar or Suspend, Chapter 126, subchapter 2, Hawaii Administrative Rules (HAR).
- 7.14.4 CONFLICT BETWEEN GENERAL CONDITIONS AND PROCUREMENT RULES. In the event of a conflict between the General Conditions and the Procurement Rules, the Procurement Rules in effect on the date this Contract became effective shall control and are hereby incorporated by reference.
- 7.15 PATENTED DEVICES, MATERIALS AND PROCESSES. If the Contractor desires to use any design, device, material, or process covered by letters of patent or copyright, the right for such use shall be procured by the Contractor from the patentee or owner. The Contractor shall defend, protect, indemnify and hold harmless the State of Hawaii, the contracting agency, and their officers, employees, and agents from and against all liability, loss, damage, cost, and expense, including attorney' fees, and all claims, suits, and demands arising out of or resulting from any claims, demands, or actions by the patent holder for infringement or other improper or unauthorized use of any patented article, patented design, patented device, patented process, patented appliance or patented material in connection with this Contract. The Contractor shall be solely responsible for correcting or curing to the satisfaction of the DHHL any such infringement or improper or unauthorized use, including, without limitation: (a) furnishing at no cost to the DHHL a substitute article, design, device, process, appliance or material acceptable to the DHHL; (b) paying royalties or other required payments to the patent holder; (c) obtaining proper authorizations or releases from the patent holder; and (d) furnishing such security to or making such arrangement with the patent holder as may be necessary to correct or cure any such infringement or improper or unauthorized use. This

section shall not apply to any article, design, device, material, appliance or process covered by letters of patent or copyright, which the Contractor is required to use by the Drawings or Specifications.

7.16 SANITARY, HEALTH AND SAFETY PROVISIONS

- 7.16.1 The Contractor shall provide and maintain in a neat, sanitary condition such accommodations for the use of its employees as may be necessary to comply with the requirements of the State and local boards of health, or other bodies or tribunals having jurisdiction. Unless otherwise stated in the drawings or specifications, the Contractor shall install toilet facilities conveniently located at the job site and maintain same in a neat and sanitary condition for the use of the employees on the job site for the duration of the Contract. The toilet facilities shall conform to the requirements of the State Department of Health. The cost of installing, maintaining and removing the toilet facilities shall be considered incidental to and paid for under various contract pay items for work or under the lump sum bids as the case may be, and no additional compensation will be made therefor. These requirements shall not modify or abrogate in any way the requirements or regulations of the State Department of Health.
- 7.16.2 Attention is directed to Federal, State and local laws, rules and regulations concerning construction safety and health standards. The Contractor shall not require any worker to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to their health or safety.

7.17 PROTECTION OF PERSONS AND PROPERTY

- 7.17.1 SAFETY PRECAUTIONS AND PROGRAMS. The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall take reasonable precautions for the safety of, and shall provide reasonable protection to prevent damage, injury or loss to:
- 7.17.1.1 All persons on the work site or who may be affected by the work;
- 7.17.1.2 All the work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor and its subcontractors; and
- 7.17.1.3 Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavement, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.
- 7.17.2 Contractor shall give notices and comply with applicable laws, ordinances, regulations, rules, and lawful orders of any public body having jurisdiction for the safety of persons or property or their protection from damage, injury or loss; and the Contractor shall erect and maintain reasonable safeguards for safety and protection, including posting danger signs, or other warnings against hazards.
- 7.17.3 The Contractor shall notify owners of adjacent properties and of underground (or overhead) utilities when performing work which may affect the owners; and shall cooperate with the owners in the protection, removal and replacement of their property.
- 7.17.4 All damage, injury or loss to any property referred to in Subsections 7.17.1.2 and 7.17.1.3 caused by the fault or negligence or damage or loss attributable to acts or omissions directly or indirectly in whole or part by the Contractor a subcontractor or any one directly or indirectly employed by them, or by anyone for whose acts they might be liable, shall be remedied promptly by the Contractor.

- 7.17.5 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the protection of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor.
- 7.17.6 The Contractor shall not load or permit any part of the construction to be loaded so as to endanger its safety. The Contractor shall not injure or destroy trees or shrubs nor remove or cut them without permission of the Project Manager. Contractor shall protect all land monuments and property marks until an authorized agent has witnessed or otherwise referenced their location and shall not remove them until directed.
- 7.17.7 In the event the Contractor encounters on the site, material reasonably believed to be asbestos or other hazard material that has not been rendered harmless, the Contractor shall stop work in the area and notify the Project Manager promptly. The work in the affected area shall be resumed in the absence of hazard materials or when the hazard has been rendered harmless.
- 7.17.8 EMERGENCIES. In an emergency affecting the safety and protection of persons or the work or property at the site or adjacent thereto, Contractor without special instructions or authorization from the Project Manager, shall act, at the Contractor's discretion, to prevent threatened damage, injury or loss. Contractor shall give the Project Manager prompt written notice of the emergency and actions taken. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined under the provisions of Section 7.25, DISPUTES AND CLAIMS.

7.18 ARCHAEOLOGICAL SITES

- 7.18.1 Should historic sites such as walls, platforms, pavements and mounds, or remains such as artifacts, burials, concentration of charcoal or shells be encountered during construction, work shall cease in the immediate vicinity of the find and the find shall be protected from further damage. The Contractor shall immediately notify the Project Manager and contact the State Historic Preservation Division which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary.
- 7.18.2 When required, the Contractor shall provide and install any temporary fencing to protect archaeological sites within the project. The fencing shall be installed prior to any construction activity and shall be maintained by the Contractor for the duration of the project. Fence installation and maintenance shall be to the satisfaction of the Project Manager. The Contractor shall remove the fencing upon completion of construction, or as directed by the Project Manager.
- 7.18.3 No work shall be done within the temporary fencing area. If any construction work is done within the temporary fencing, the Contractor shall notify the Project Manager immediately; and if the Contractor entered the archaeological site area without permission, it shall stop work in this area immediately. The Project Manager shall notify the archaeologist to assess any damage to the area. The Contractor shall allow the archaeologist sufficient time to perform the field investigation.
- 7.18.4 Any site requiring data recovery within the project shall not be disturbed until data recovery is completed.

7.19 RESPONSIBILITY FOR DAMAGE CLAIMS: INDEMNITY

7.19.1 The CONTRACTOR shall defend, indemnify, and hold harmless the State of Hawaii, the contracting agency, and their officers, employees, and agents from and against all liability, loss, damage, cost,

and expense, including all attorneys' fees, and all claims, suits, and demands therefor, arising out of or resulting from the acts or omissions of the CONTRACTOR or the CONTRACTOR's employees, officers, agents, or subcontractors under this Contract. The provisions of this Subsection shall remain in full force and effect notwithstanding the expiration or early termination of this Contract.

- 7.19.2 The Contractor agrees that it will not attempt to hold the State and the Department, their officers, representatives, employees or agents, liable or responsible for any losses or damages to third parties from the action of the elements, the nature of the work to be done under these Contract Documents or from any unforeseen obstructions, acts of God, vandalism, fires or encumbrances which may be encountered in the prosecution of the work.
- 7.19.3 The Contractor shall pay all just claims for materials, supplies, tools, labor and other just claims against the Contractor or any subcontractor in connection with this contract and the surety bond will not be released by final acceptance and payment by the Department unless all such claims are paid or released. The Department may, but is not obligated to, withhold or retain as much of the monies due or to become due the Contractor under this contract considered necessary by the Project Manager to cover such just claims until satisfactory proof of payment or the establishment of a payment plan is presented.
- 7.19.4 The Contractor shall defend, indemnify and hold harmless the State and the Department, their officers, representatives, employees or agents from all suits, actions or claims of any character brought on account of any claims or amounts arising out of or recovered under the Workers' Compensation Laws or violation of any other law, by-law, ordinance, order or decree.
- 7.19.5 COST OF LITIGATION. In case the STATE shall, without any fault on its part, be made a party to any litigation commenced by or against the CONTRACTOR in connection with this Contract, the CONTRACTOR shall pay all costs and expenses incurred by or imposed on the STATE, including attorneys' fees.
- 7.20 CHARACTER OF WORKERS OR EQUIPMENT
- 7.20.1 The Contractor shall at all times provide adequate supervision and sufficient labor and equipment for prosecuting the work to full completion in the manner and within the time required by the contract.
- 7.20.2 Character and Proficiency of Workers All workers shall possess the proper license and/or certification, job classification, skill and experience necessary to properly perform the work assigned to them. All workmen engaged in special work or skilled work, such as bituminous courses or mixtures, concrete pavement or structures, electrical installation, plumbing installation, or in any trade shall have sufficient experience in such work and in the operation of the equipment required to properly and satisfactorily perform all work. All workers shall make due and proper effort to execute the work in the manner prescribed in these Contract Documents, otherwise, the Project Manager may take action as prescribed herein.
- 7.20.2.1 Any worker employed on the project by the Contractor or by any subcontractor who, in the opinion of the Project Manager, is not careful and competent, does not perform its work in a proper and skillful manner or is disrespectful, intemperate, disorderly or neglects or refuses to comply with directions given, or is otherwise objectionable shall at the written request of the Project Manager, be removed forthwith by the Contractor or subcontractor employing such worker and shall not be employed again in any portion of the work without the written consent of the Project Manager. Should the Contractor or subcontractor continue to employ, or again employ such person or persons on the project, the

Project Manager may withhold all payments which are or may become due, or the Project Manager may suspend the work until the Project Manager's orders are followed, or both.

- 7.20.3 INSUFFICIENT WORKERS. A sufficient number of workers shall be present to ensure the work is accomplished at an acceptable rate. In addition, the proper ratio of apprentice to journey worker shall be maintained to ensure the work is properly supervised and performed. In the event that the Project Manager finds insufficient workers are present to accomplish the work at an acceptable rate of progress or if a adequate number of journey workers are not present and no corrective action is taken by the Contractor after being informed in writing, the Chairman may terminate the Contract as provided for under Section 7.27, TERMINATION OF CONTRACT FOR CAUSE.
- 7.20.4 EQUIPMENT REQUIREMENTS. All equipment furnished by the Contractor and used on the work shall be of such size and of such mechanical condition that the work can be performed in an acceptable manner at a satisfactory rate of progress and the quality of work produced will be satisfactory.
- 7.20.4.1 Equipment used on any portion of the project shall be such that no injury to the work, persons at or near the site, adjacent property or other objects will result from its use.
- 7.20.4.2 If the Contractor fails to provide adequate equipment for the work, the contract may be terminated as provided under Section 7.27, TERMINATION OF CONTRACT FOR CAUSE.
- 7.20.4.3 In the event that the Contractor furnishes and operates equipment on a force account basis, it shall be operated to obtain maximum production under the prevailing conditions.
- 7.21 CONTRACT TIME
- 7.21.1 Time is of the essence for this Contract.
- 7.21.2 CALCULATION OF CONTRACT TIME. When the contract time is on a working day basis, the total contract time allowed for the performance of the work shall be the number of working days shown in the contract plus any additional working days authorized in writing as provided hereinafter. Refer to ARTICLE 1, DEFINITIONS for the definition of Working Day. The count of elapsed working days to be charged against contract time shall begin from the date of the Notice to Proceed and shall continue consecutively to the date of Project Acceptance determined by the Project Manager. When the contract completion time is a fixed calendar date, it shall be the date on which all work on the project shall be completed. Maintenance periods are not included within the contract time unless specifically noted in the Contract Documents. Failure to complete the work by contract completion date shall not terminate the Contract.
- 7.21.3 MODIFICATIONS OF CONTRACT TIME (§3-125-4 HAR)
- 7.21.3.1 EXTENSIONS. For increases in the scope for work caused by alterations and additional work made under Section 4.2, CHANGES, the Contractor will be granted a time extension only if the changes increase the time of performance for the Contract. If the Contractor believes an extension of time is justified and is not adequately provided for in a Field Order, it must request the additional time sought in writing when the detailed cost breakdown required by Section 4.2, CHANGES, is submitted. The Contractor must show how the time of performance for the critical path will be affected and must also support the time extension request with schedules and statements from its subcontractors, suppliers, and/or manufacturers. Compensation for any altered or additional work will be paid as provided in Section 4.2, CHANGES.

- 7.21.3.2 The Department may direct changes to the work at any time until the work is finally accepted. The issuance of a Field Order at any time may alter or modify the contract duration only by the days specified therein; or if not specified therein, for the days the critical path must be extended for the change. Additional time to perform the extra work will be added to the time allowed in the contract without regard to the date the change directive was issued, even if the contract completion date has passed. A change requiring time will not constitute a waiver of pre-existing Contractor delay.
- 7.21.4 DELAY FOR PERMITS. For delays beyond the control of the Contractor in obtaining necessary permits, one day extension for each day delay may be granted by the Project Manager, provided the Contractor notifies the Project Manager that the permits are not available, as soon as the delay occurs. Time extensions shall be the exclusive relief granted on account of such delays. No additional compensation will be paid for these time extensions.
- 7.21.5 DELAYS BEYOND CONTRACTOR'S CONTROL. For delays affecting the critical path caused by acts of God, or the public enemy, fire, unusually severe weather, earthquakes, floods, epidemics, quarantine restrictions, labor disputes, freight embargoes and other reasons beyond the Contractor's control, the Contractor may be granted an extension of time provided that:
- 7.21.5.1 The Contractor notifies the Project Manager in writing within five (5) work days after the occurrence of the circumstances described above and states the possible effects on the completion date of the contract.
- 7.21.5.2 No time extension will be granted for weather conditions other than unusually severe weather occurrences, and floods.
- 7.21.5.3 The Contractor, if requested, submits to the Project Manager within ten (10) work days after the request, a written statement describing the delay to the project. The extent of delay must be substantiated as follows:
 - (a) State specifically the reason or reasons for the delay and fully explain in a detailed chronology the effect of this delay to the work and/or the completion date;
 - (b) Submit copies of purchase order, delivery tag, and any other pertinent documentation to support the time extension request;
 - (c) Cite the period of delay and the time extension requested; and
 - (d) A statement either that the above circumstances have been cleared and normal working conditions restored as of a certain day or that the above circumstances will continue to prevent completion of the project.
- 7.21.5.4 Time extensions shall be the exclusive relief granted and no additional compensation will be paid the Contractor for such delays.
- 7.21.6 DELAYS IN DELIVERY OF MATERIALS. For delays in delivery of materials and/or equipment which occur as a result of unforeseeable causes beyond the control and without fault or negligence of the Contractor, its subcontractor(s) or supplier(s), the Contractor may be granted an extension of time provided it complies with the following procedures:
- 7.21.6.1 The Contractor must notify the Project Manager in writing within five (5) consecutive working days after it first has any knowledge of delays or anticipated delays and state the effects such delays may have on the completion date of the Contract.

- 7.21.6.2 The Contractor, if requested, must submit to the Project Manager within ten (10) working days after a firm delivery date for the material and equipment is established, a written statement as to the delay to the progress of the project. The delay must be substantiated as follows:
 - (a) State specifically the reason or reasons for the delay. Explain in a detailed chronology the effect of this delay to the other work and / or the completion date;
 - (b) Submit copies of purchase order(s), factory invoice(s), bill(s) of lading, shipping manifest(s), delivery tag(s) and any other pertinent correspondence to support the time extension request; and
 - (c) Cite the start and end date of the delay and the days requested therefore. The delay shall not exceed the difference between the originally scheduled delivery date versus the actual delivery date.
- 7.21.6.3 Time extensions shall be the exclusive relief granted and no additional compensation will be paid the Contractor on account of such delay.
- 7.21.7 DELAYS FOR SUSPENSION OF WORK. Delay during periods of suspension of the work by the Project Manager shall be computed as follows:
- When the performance of the work is totally suspended for one (1) or more days (calendar or working days, as appropriate) by order of the Project Manager in accordance with Subsections 7.24.1.1, 7.24.1.2, 7.24.1.4 or 7.24.1.6 the number of days from the effective date of the Project Manager's order to suspend operations to the effective date of the Project Manager's order to resume operations shall not be counted as contract time and the contract completion date will be adjusted. Should the Contractor claim for additional days in excess of the suspension period, Contractor shall provide evidence justifying the additional time. During periods of partial suspensions of the work, the Contractor will be granted a time extension only if the partial suspension affects the critical path. If the Contractor believes that an extension of time is justified for a partial suspension of work, it must request the extension in writing at least five (5) working days before the partial suspension will affect the critical operation(s) in progress. The Contractor must show how the critical path was increased based on the status of the work and must also support its claim, if requested, with statements from its subcontractors. A suspension of work will not constitute a waiver of pre-existing Contractor delay.
- 7.21.8 CONTRACTOR CAUSED DELAYS No time extension will be considered for the following:
- 7.21.8.1 Delays in performing the work caused by the Contractor, subcontractor and/or supplier;
- 7.21.8.2 Delays in arrival of materials and equipment caused by the Contractor, subcontractor and / or supplier in ordering, fabricating, delivery, etc.;
- 7.21.8.3 Delays requested for changes which the Project Manager determines unjustifiable due to the lack of supporting evidence or because the change is not on the critical path;
- 7.21.8.4 Delays caused by the failure of the Contractor to submit for review and acceptance by the Project Manager, on a timely basis, pricing proposals, shop drawings, descriptive sheets, material samples, color samples, etc. except as covered in Subsection 7.21.5 and 7.21.6;
- 7.21.8.5 Failure to follow the procedure within the time allowed to qualify for a time extension; and
- 7.21.8.6 Days the Contractor is unable to work due to normal rainfall or other normal bad weather day conditions.

7.21.9 REDUCTION IN TIME - If the Department deletes any portion of the work, an appropriate reduction of contract time may be made in accordance with Section 4.2, CHANGES.

7.22 CONSTRUCTION SCHEDULE

- 7.22.1 The Contractor shall submit its detailed construction schedule to the Project Manager prior to the start of the work. The purpose of the schedule is to allow the Project Manager to monitor the Contractor's progress on the work. The schedule shall account for normal inclement weather, unusual soil or other conditions that may influence the progress of the work, schedules and coordination required by any utility, off or on site fabrications, and all other pertinent factors that relate to progress.
- 7.22.2 Submittal of and the Project Manager's receipt of the construction schedule shall not imply the Department's approval of the schedule's breakdown, its individual elements, and any critical path that may be shown. Any acceptance or approval of the schedule: (1) shall be for general format only and not for sequences or durations thereon; and (2) shall not be deemed an agreement by the Department that the construction means, methods and resources shown on the schedule will result in work that conforms to the contract requirements. The Contractor has the risk of all elements (whether or not shown) of the schedule and its execution.
- 7.22.3 In the event the Contractor submits and the Department receives an accelerated schedule (shorter than the contract time), such will not constitute an agreement to modify the contract time or completion date, nor will the receipt, acceptance or approval of such a schedule incur any obligation by the Department. The Contractor shall be solely responsible for and shall accept all risks and any delays that may materialize during the construction work until the contract completion date is reached. The contract time or completion date is established for the benefit of the Department and cannot be changed without an appropriate change order issued by the Department. All float on an accelerated schedule belongs exclusively to the Department. The Department will not be responsible for or obligated to accept the work before the completion date established by the Contract.
- 7.23 STATEMENT OF WORKING DAYS For all contracts on a working day basis, the Contractor will submit a statement of the number of working days for each month together with the Monthly Payment Application. The Monthly Payment Application will not be processed without the statement of working days.
- 7.24 SUSPENSION OF WORK (§3-125-7 HAR)
- 7.24.1 PROCEDURE TO BE FOLLOWED. The Chairman may, by written order to the Contractor, at any time and without notice to any surety, suspend the performance of the work either in whole or in part for any cause, including but not limited to:
- 7.24.1.1 Weather or excess bad weather days, considered unsuitable by the Project Manager for prosecution of the work; or
- 7.24.1.2 Soil Conditions considered unsuitable by the Project Manager for prosecution of the work; or 7.24.1.3 Failure of the Contractor to:
 - (a) Correct conditions unsafe for the general public or for the workers;
 - (b) Carry out orders given by the Project Manager;
 - (c) Perform the work in strict compliance with the provisions of the contract; or
 - (d) Provide a qualified Superintendent on the jobsite as described under Subsection 5.9.2, SUPERINTENDENT.

- 7.24.1.4 When any redesign is deemed necessary by the Project Manager; or
- 7.24.1.5 Disturbance due to noise, odors or dust arising from the construction even if such disturbance does not violate the section on Environmental Protection contained in the Contract Documents; or
- 7.24.1.6 The convenience of the Department.
- 7.24.2 PARTIAL OR TOTAL SUSPENSION OF WORK. Suspension of work on some but not all items of work shall be considered a partial suspension. Suspension of work on the entire work at the job site shall be considered total suspension. The period of suspension shall be computed as set forth in Subsection 7.21.7, Delays for Suspension of Work.
- 7.24.3 PAYMENT
- 7.24.3.1 In the event that the Contractor is ordered by the Chairman in writing as provided herein to suspend all work under the contract in accordance with Subsections 7.24.1.4 or 7.24.1.6, the Contractor may be reimbursed for actual direct costs incurred on work at the jobsite, as authorized in writing by the Chairman, including costs expended for the protection of the work. Payment for equipment which must standby during such suspension of work shall be made as described in clause 8.3.4.5.(e). No payment will be made for profit on any suspension costs. An allowance of five percent (5%) will be paid on any reimbursed actual costs for indirect categories of delay costs, including extended branch and home-office overhead and delay impact costs.
- 7.24.3.2 However, no adjustment to the contract amount or time shall be made under this Section 7.24, SUSPENSION OF WORK (§3-125-7 HAR) for any suspension, delay, or interruption:
 - (a) To the extent that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor; or
 - (b) For which an adjustment is provided for or excluded under any other provision of this Contract.
- 7.24.3.3 Any adjustment in contract price made pursuant to this subsection shall be determined in accordance with this Section 7.24, SUSPENSION OF WORK (§3-125-7 HAR) and Section 4.2, CHANGES.
- 7.24.3.4 Claims for such compensation shall be filed with the Project Manager within ten (10) calendar days after the date of the order to resume work or such claims will be waived by the Contractor. Together with the claim, the Contractor shall submit substantiating documents supporting the entire amount shown on the claim. The Chairman may make such investigations as are deemed necessary and shall be the sole judge of the claim and the Chairman's decision shall be final.
- 7.24.4 CLAIMS NOT ALLOWED. No claim under this Section 7.24, SUSPENSION OF WORK (§3-125-7 HAR) shall be allowed:
- 7.24.4.1 For any direct costs incurred more than twenty (20) days before the Contractor shall have notified the Project Manager in writing of any suspension that the Contractor considers compensable. This requirement shall not apply as to a claim resulting from a suspension order under Subsections 7.24.1.4 or 7.24.1.6; and 7.24.4.2 Unless the claim is asserted in writing within ten (10) calendar days after the termination of such suspension, delay, or interruption, but in no case not later than the date of final payment under the contract.
- 7.24.4.2 No provision of this Section 7.24, SUSPENSION OF WORK (§3-125-7 HAR) shall be construed as entitling the Contractor to compensation for delays due to failure of surety, for suspensions made at

the request of the Contractor, for any delay required under the Contract, for partial suspension of work or for suspensions made by the Project Manager under the provisions of Subsections 7.24.1.1, 7.24.1.2, 7.24.1.3 and 7.24.1.5.

- 7.25 DISPUTES AND CLAIMS (§3-126-31 HAR). Disputes shall be resolved in accordance with Section 103D-703, HRS, and chapter 126, Procurement Rules, as the same may be amended from time to time.
- 7.25.1 REQUIRED NOTIFICATION. As a condition precedent for any claim, the Contractor must give notice in writing to the Project Manager in the manner and within the time periods stated in Section 4.2, CHANGES for claims for extra compensation, damages, or an extension of time due for one or more of the following reasons:
- 7.25.1.1 Requirements not clearly covered in the Contract, or not ordered by the Project Manager as an extra;
- 7.25.1.2 Failure by the Department and Contractor to agree to an Oral Order or an adjustment in price or contract time for a Field Order or a Change Order (which was not previously agreed on by a Field Order), issued by the Department;
- 7.25.1.3 An action or omission by the Project Manager requiring performance changes beyond the scope of the Contract; and/or
- 7.25.1.4 Failure of the Department to issue a Field Order for controversies within the scope of Section 4.2, CHANGES.
- 7.25.1.5 For any other type of claim, the Contractor shall give notice within the time periods set forth in contract provisions pertaining to that event. If no specific contract provisions pertain to the claim, then the written notice of claim must be submitted within fifteen (15) days of the event giving rise to the claim.
- 7.25.2 CONTINUED PERFORMANCE OF WORK. The Contractor shall at all times continue with performance of the contract in full compliance with the directions of the Project Manager. Continued performance by the Contractor shall not be deemed a waiver of any claim for additional compensation, damages, or an extension of time for completion, provided that the written notice of claim is submitted in accordance with Subsection 7.25.1, REQUIRED NOTIFICATION.
- 7.25.3 The requirement for timely written notice shall be a condition precedent to the assertion of a claim.
- 7.25.4 REQUIREMENTS FOR NOTICE OF CLAIM. The notice of claim shall clearly state the Contractor's intention to make claim and the reasons why the Contractor believes that additional compensation, changes or an extension of time may be remedies to which it is entitled. At a minimum, it shall provide the following:
- 7.25.4.1 Date of the protested order, decision or action;
- 7.25.4.2 The nature and circumstances which caused the claim:
- 7.25.4.3 The contract provision(s) that support the claim;
- 7.25.4.4 The estimated dollar cost, if any, of the protested work and how that estimate was determined; and

- 7.25.4.5 An analysis of the progress schedule showing the schedule change or disruption if the Contractor is asserting a schedule change or disruption.
- 7.25.5 If the protest or claim is continuing, the information required in Subsection 7.25.4 REQUIREMENTS FOR NOTICE OF CLAIMS above shall be supplemented as requested by the Project Manager.
- 7.25.6 FINAL STATEMENT FOR CLAIM. The Contractor shall provide a final written statement of the actual adjustment in contract price and/or contract time requested for each notice of claim. Such statement shall clearly set forth that it is the final statement for that notice of claim. All such final statements shall be submitted within thirty (30) days after completion of the work that is the subject of the claim, but in no event no later than thirty (30) days after the Project Acceptance Date or the date of termination of the Contractor, whichever comes first.
- 7.25.7 All claims of any nature are barred if asserted after final payment under this Contract has been made.
- 7.25.8 Contractor may protest the assessment or determination by the Project Manager of amounts due the Department from the Contractor by providing a written notice to the Chairman within thirty (30) days of the date of the written assessment or determination. Said notice shall comply with all requirements of Subsections 7.25.4, REQUIREMENTS FOR NOTICE OF CLAIM and 7.25.6, FINAL STATEMENT FOR CLAIM above. The requirement of such notice cannot be waived and it is a condition precedent to any claim by the Contractor. Failure to comply with these notice provisions constitutes a waiver of any claim.
- 7.25.9 In addition to the requirements of Subsections 7.25.4, 7.25.6, and 7.25.8, all final written statements of claim shall be certified. This certification requirement applies to the Contractor without exception, including, but not limited to, situations involving claims of subcontractors or suppliers which meet the requirements of Subsection 5.13.4. The certification must be executed by a person duly authorized to bind the Contractor with respect to the claim. The certification shall state as follows:
 - "I certify that the claim is made in good faith; that the supporting data are accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the contract adjustment for which the Contractor believes the Department is liable; and that I am duly authorized to certify the claim on behalf of the Contractor."
- 7.25.10 DECISION ON CLAIM/APPEAL. The decision of the Chairman on the claim shall be final and conclusive, unless fraudulent, or unless the Contractor delivers to the Chairman a written appeal of the Chairman's decision. Said appeal shall be delivered to the Chairman no later than thirty (30) days after the date of the Chairman's decision.
- 7.25.10.1 In that event, the decision of the Chairman shall be final and conclusive, unless fraudulent or unless the Contractor brings an action seeking judicial review of the Chairman's decision in an appropriate circuit court of this State within six (6) months from the date of the Chairman's decision.
- 7.25.11 PAYMENT AND INTEREST. The amount determined payable pursuant to the decision, less any portion already paid, normally should be paid without awaiting Contractor action concerning appeal. Such payments shall be without prejudice to the rights of either party. Interest on amounts ultimately determined to be due to a Contractor shall be payable at the Statutory rate applicable to judgments against the State under Chapter 662, HRS from the date of receipt of a properly certified final written statement of actual adjustment required until the date of decision; except, however, that if an action is initiated in circuit court, interest under this Section 7.25, DISPUTES AND CLAIMS (§3-126-31 HAR) shall only be calculated until the time such action is initiated. Interest on amounts due the

Department from the Contractor shall be payable at the same rate from the date of issuance of the Project Manager's notice to the Contractor. Where such payments are required to be returned by a subsequent decision, interest on such payments shall be paid at the statutory rate from the date of payment.

- 7.25.12 Contractor shall comply with any decision of the Chairman and proceed diligently with performance of this contract pending final resolution by a circuit court of this State of any controversy arising under, or by virtue of, this Contract, except where there has been a material breach of contract by the Department; provided that in any event the Contractor shall proceed diligently with the performance of the Contract where the Project Manager has made a written determination that continuation of work under the Contract is essential to the public health and safety.
- 7.25.13 WAIVER OF ATTORNEY'S FEES. In the event of any litigation arising under, or by virtue of, this Contract, the Contractor and the Department agree to waive all claims against each other for attorney's fees and agree to refrain from seeking attorney's fees as part of any award or relief from any court.

7.26 FAILURE TO COMPLETE THE WORK ON TIME

- 7.26.1 Completion of the work within the required time is important because delay in the prosecution of the work will inconvenience the public and interfere with the Department's business. In addition, the Department will be damaged by the inability to obtain full use of the completed work and by increased engineering, inspection, superintendence, and administrative services in connection with the work. Furthermore, delay may detrimentally impact the financing, planning, or completion of other Department projects because of the need to devote Department resources to the project after the required completion date. The monetary amount of such public inconvenience, interference with Department business, and damages, is difficult, if not impossible, to accurately determine and precisely prove. Therefore, it is hereby agreed that the amount of such damages shall be the appropriate sum of liquidated damages.
- 7.26.1.1 When the Contractor fails to complete the work or any portion of the work within the time or times fixed in the contract or any extension thereof, it is agreed the Contractor shall pay liquidated damages to the Department in the amount of \$1,000 (one thousand dollars) per calendar day, unless otherwise indicated in the Special Conditions.
- 7.26.1.2 If the Contractor fails to correct Punchlist deficiencies as required by Section 7.32, PROJECT ACCEPTANCE DATE, the Department will be inconvenienced and damaged, therefore, it is agreed that the Contractor shall pay liquidated damages to the Department based upon the amount stated inSection 7.26.1.1. Liquidated damages shall accrue for all days after the Contract Completion Date or any extension thereof, until the date the Punchlist items are corrected and accepted by the Project Manager.
- 7.26.1.3 If the Contractor fails to submit final documents as required by Section 7.33, FINAL SETTLEMENT OF CONTRACT, the Department will be inconvenienced and damaged, therefore, it is agreed that the Contractor shall pay liquidated damages to the Department in the amount stated in the Section 7.26.1.1. Liquidated damages shall accrue for all days after the Contract Completion Date or any extension thereof, until the date the final documents are received by the Project Manager.
- 7.26.1.4 The Project Manager shall assess the total amount of liquidated damages in accordance with the amount of \$1,000 (one thousand dollars) per day, unless otherwise indicated in the Special Conditions, and provide written notice of such assessment to the Contractor.

- ACCEPTANCE OF LIQUIDATED DAMAGES. The assessment of liquidated damages by the Project Manager shall be accepted by the parties hereto as final, unless the Contractor delivers a written appeal of the Project Manager's decision in accordance with Subsection 7.25.10, DECISION ON CLAIM/APPEAL REQUIREMENTS. Any allowance of time or remission of charges or liquidated damages shall in no other manner affect the rights or obligations of the parties under this contract nor be construed to prevent action under Section 7.27, TERMINATION OF CONTRACT FOR CAUSE. If the Department terminates the Contractor's right to proceed, the resulting damage will include such liquidated damages for such time as may be required for final completion of the work after the required contract completion date.
- 7.26.3 PAYMENTS FOR LIQUIDATED DAMAGES. Liquidated damages shall be deducted from monies due or that may become due to the Contractor under the contract or from other monies that may be due or become due to the Contractor from the Department.
- 7.26.4 If the Contractor contests the per diem liquidated charge, the Department may elect to recover the actual damages caused by the Contractor's delay. Should the Department claim liquidated damages for delay and if such liquidated damages are disallowed for any reason, the Department shall recover the actual damages to which it is legally entitled as a result of the Contractor's delay or other breach.
- 7.27 TERMINATION OF CONTRACT FOR CAUSE (§3-125-18 HAR)
- 7.27.1 DEFAULT. If the Contractor refuses or fails to perform the work, or any separable part thereof, with such diligence as will assure its completion within the time specified in this contract, or any extension thereof, fails to complete the work within such time, or commits any other material breach of this contract, and further fails within seven (7) days after receipt of written notice from the Project Manager to commence and continue correction of the refusal or failure with diligence and promptness, the Chairman may, by written notice to the Contractor, declare the Contractor in breach and terminate the Contractor's right to proceed with the work or the part of the work as to which there has been delay or other breach of contract. In such event, the Department may take over the work and perform the same to completion, by contract or otherwise, and may take possession of, and utilize in completing the work, the materials, appliances, and plant as may be on the site of the work and necessary therefor. Whether or not the Contractor's right to proceed with the work is terminated, the Contractor and the Contractor's sureties shall be liable for any damage to the Department resulting from the Contractor's refusal or failure to complete the work within the specified time.
- 7.27.2 ADDITIONAL RIGHTS AND REMEDIES. The rights and remedies of the Department provided in this contract are in addition to any other rights and remedies provided by law.

7.27.3 COSTS AND CHARGES

- 7.27.3.1 All costs and charges incurred by the Department, together with the cost of completing the work under contract, will be deducted from any monies due or which would or might have become due to the Contractor had it been allowed to complete the work under the contract. If such expense exceeds the sum which would have been payable under the contract, then the Contractor and the surety shall be liable and shall pay the Department the amount of the excess.
- 7.27.3.2 In case of termination, the Chairman shall limit any payment to the Contractor to the part of the contract satisfactorily completed at the time of termination. Payment will not be made until the work has satisfactorily been completed and the tax clearance required by Section 8.8, FINAL PAYMENT

is submitted by the Contractor. Termination shall not relieve the Contractor or Surety from liability for liquidated damages.

- 7.27.4 ERRONEOUS TERMINATION FOR CAUSE. If, after notice of termination of the Contractor's right to proceed under this Section 7.27, TERMINATION OF CONTRACT FOR CAUSE (§3-125-18 HAR) it is determined for any reason that good cause did not exist to allow the Department to terminate as provided herein, the rights and obligations of the parties shall be the same as, and the relief afforded the Contractor shall be limited to, the provisions contained in Section 7.28, TERMINATION FOR CONVENIENCE.
- 7.28 TERMINATION FOR CONVENIENCE (§3-125-22 HAR)
- 7.28.1 TERMINATION. The Chairman may, when the interests of the Department so require, terminate this contract in whole or in part, for the convenience of the Department. The Chairman shall give written notice of the termination to the Contractor specifying the part of the contract terminated and when termination becomes effective.
- 7.28.2 CONTRACTOR'S OBLIGATIONS. The Contractor shall incur no further obligations in connection with the terminated work and on the date set in the notice of termination the Contractor will stop work to the extent specified. The Contractor shall also terminate outstanding orders and subcontracts as they relate to the terminated work. The Contractor shall settle the liabilities and claims arising out of the termination of subcontracts and orders connected with the terminated work subject to the Department's approval. The Chairman may direct the Contractor to assign the Contractor's right, title, and interest under terminated orders or subcontracts to the Department. The Contractor must still complete the work not terminated by the notice of termination and may incur obligations as necessary to do so.
- 7.28.3 RIGHT TO CONSTRUCTION AND GOODS. The Chairman may require the Contractor to transfer title and delivery to the Department in the manner and to the extent directed by the Chairman, the following:
- 7.28.3.1 Any completed work; and
- 7.28.3.2 Any partially completed construction, goods, materials, parts, tools, dies, jigs, fixtures, drawings, information, and contract rights (hereinafter called "construction material") that the Contractor has specifically produced or specially acquired for the performance of the terminated part of this contract.
- 7.28.3.3 The Contractor shall protect and preserve all property in the possession of the Contractor in which the Department has an interest. If the Chairman does not elect to retain any such property, the Contractor shall use its best efforts to sell such property and construction material for the Department's account in accordance with the standards of Section 490:2-706, HRS.
- 7.28.4 COMPENSATION
- 7.28.4.1 Contractor shall submit a termination claim specifying the amounts due because of the termination for convenience together with cost or pricing data, submitted to the extent required by subchapter 15, chapter 3-122, HAR. If the Contractor fails to file a termination claim within one (1) year from the effective date of termination, the Chairman may pay the Contractor, if at all, an amount set in accordance with Subsection 7.28.4.3.

- 7.28.4.2 The Chairman and the Contractor may agree to a settlement provided the Contractor has filed a termination claim supported by cost or pricing data submitted as required and that the settlement does not exceed the total contract price plus settlement costs reduced by payments previously made by the Department, the proceeds of any sales of construction, supplies, and construction materials under Subsection 7.28.3.3 of this Section, and the contract price of the work not terminated.
- 7.28.4.3 Absent complete agreement, the Chairman shall pay the Contractor the following amounts, less any payments previously made under the Contract.
 - (a) The cost of all contract work performed prior to the effective date of the notice of termination work plus a five percent (5%) markup on the actual direct costs, including amounts paid to subcontractor(s), less amounts previously paid or to be paid for completed portions of such work; provided, however, that if it appears that the Contractor would have sustained a loss if the entire contract would have been completed, no markup shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss. No anticipated profit or consequential damage will be due or paid.
 - (b) Subcontractors shall be paid a markup of ten percent (10%) on their direct job costs incurred to the date of termination. No anticipated profit or consequential damage will be due or paid to any subcontractor. These costs must not include payments made to the Contractor for subcontract work during the contract period.
 - (c) In any case, the total sum to be paid the Contractor shall not exceed the total contract price reduced by the amount of any sales of construction supplies, and construction materials.
- 7.28.4.4 Costs claimed, agreed to, or established by the Department shall be in accordance with chapter 3-123, HAR.
- 7.29 CORRECTING DEFECTS. If the Contractor fails to commence to correct any defects of any nature, within ten (10) working days after the correction thereof has been requested in writing by the Department, and thereafter to expeditiously complete the correction of said defects, the Project Manager may without further notice to the Contractor or surety and without termination of contract, correct the defects and deduct the cost thereof from the contract price.
- 7.30 FINAL CLEANING. Before final inspection of the work, the Contractor shall clean all ground occupied by the Contractor in connection with the work of all rubbish, excess materials, temporary structures and equipment, and all parts of the work must be left in a neat and presentable condition to the satisfaction of the Project Manager. However, the Contractor shall not remove any warning and directional signs prior to the formal acceptance by the Project Manager. Full compensation for final cleaning will be included in the prices paid for the various items of work or lump sum bid, as the case may be, and no separate payment will be made therefor.
- 7.31 SUBSTANTIAL COMPLETION AND FINAL INSPECTION. Before the Department accepts the project as being completed, unless otherwise stipulated by the Project Manager the following procedure shall be followed:

7.31.1 SUBSTANTIAL COMPLETION

7.31.1.1 The Contractor and its subcontractors shall inspect the project to confirm whether the Project is Substantially Complete. This inspection effort shall include the testing of all equipment and providing a Punchlist that identifies deficiencies which must be corrected. Contractor shall make the corrections and if required repeat the procedure. Also, the Contractor shall schedule final Building, Plumbing, Electrical, Elevator, Fire and other required inspections and obtain final approvals.

- (a) When in compliance with the above requirements, the Contractor shall notify the Project Manager in writing that project is Substantially Complete and ready for a Final Inspection. Along with the Substantial Completion notification, the Contractor shall provide its Punchlist(s) with the status of the deficiencies and dates when the deficiencies were corrected. The Project Inspector and / or the Project Manager shall make a preliminary determination whether project is Substantially Complete.
- (b) If the Project is not Substantially Complete, the Project Manager shall inform the Contractor. The Contractor shall identify deficiencies which must be corrected, update its Punchlist, make the necessary corrections and repeat the previous step. After completing the necessary work, the Contractor shall notify the Project Manager in writing that Punchlist deficiencies have been corrected and the project is ready for a Final Inspection.
- (c) If the Project is Substantially Complete, the Project Manager shall schedule a Final Inspection within fifteen (15) days of the Contractor's notification letter or as otherwise determined by the Project Manager.
- 7.31.1.2 In addition, and to facilitate closing of the project, the Contractor shall also proceed to obtain the following closing documents (where applicable) prior to the Final Inspection:
 - (a) Field-Posted As-Built Drawings;
 - (b) Maintenance Service Contract and two (2) copies of a list of all equipment;
 - (c) Five (5) sets of operating and maintenance manuals;
 - (d) Air conditioning test and balance reports; and
 - (e) Any other final submittal required by the Contract.
- 7.31.2 FINAL INSPECTION. If at the Final Inspection the Project Manager determines that all work is completed, the Project Manager shall notify the Contractor in accordance with Section 7.32, PROJECT ACCEPTANCE DATE. Should there be remaining deficiencies which must be corrected the Contractor shall provide an updated Punchlist to the Project Manager, within five (5) days from the Final Inspection Date. The Contractor shall make the necessary corrections.
- 7.31.2.1 The Project Manager shall confirm the list of deficiencies noted by the Contractor's punchlist(s) and will notify the Contractor of any other deficiencies that must be corrected before final settlement.
- 7.31.3 The Project Manager may add to or otherwise modify the Punchlist from time to time. The Contractor shall take immediate action to correct the deficiencies.
- 7.31.4 REVOKING SUBSTANTIAL COMPLETION. At any time before final Project Acceptance is issued the Project Manager may revoke the determination of Substantial Completion if the Project Manager finds it was not warranted. The Project Manager shall notify the Contractor in writing with the reasons and outstanding deficiencies negating the declaration. Once notified, the Contractor shall make the necessary corrections and repeat the required steps noted in Subsections 7.31.1 and 7.31.2.
- 7.32 PROJECT ACCEPTANCE DATE
- 7.32.1 If upon Final Inspection, the Project Manager finds that the project has been satisfactorily completed in compliance with the contract, the Project Manager shall declare the project completed and accepted and will notify the Contractor in writing of the acceptance by way of the Project Acceptance Notice.
- 7.32.2 PROTECTION AND MAINTENANCE. After the Project Acceptance Date, the Contractor shall be relieved of maintaining and protecting the work except that this does not hold true for those portions of the work which have not been accepted, including Punchlist deficiencies. The Department shall be responsible for the protection and maintenance of the accepted facility.

- 7.32.3 The date of Project Acceptance shall determine:
- 7.32.3.1 End of Contract Time;
- 7.32.3.2 Commencement of all guaranty periods except as noted in Section 7.34, CONTRACTOR'S RESPONSIBILITY FOR WORK: RISK OF LOSS; and
- 7.32.3.3 Commencement of all maintenance services except as noted in Section 7.34, CONTRACTOR'S RESPONSIBILITY FOR WORK: RISK OF LOSS.
- 7.32.4 PUNCHLIST REQUIREMENTS. If a Punchlist is required under Section 7.31, SUBSTANTIAL COMPLETION AND FINAL INSPECTION, the Project Acceptance Notice will include the Project Manager's Punchlist and the date when correction of the deficiencies must be completed.
- 7.32.5 Upon receiving the Punchlist, the Contractor shall promptly devote the required time, labor, equipment, materials and incidentals necessary to correct the deficiencies expeditiously.
- 7.32.6 For those items of work that cannot be completed by the established date, the Contractor shall submit a schedule in writing to the Project Manager for approval along with documentation to justify the time required, no later than five (5) working days before the date stipulated for completion of the Punchlist work. A Proposed schedule submitted after the five (5) day period will not be considered.
- 7.32.7 FAILURE TO CORRECT DEFICIENCIES. After the Contract Completion Date, or any extension thereof, if the Contractor fails to correct the deficiencies within the established date or agreed to Punchlist completion date, the Project Manager shall assess liquidated damages as required by Section 7.26, FAILURE TO COMPLETE THE WORK ON TIME.
- 7.32.8 If the Contractor fails to correct the deficiencies and complete the work by the established or agreed to date, the Department also reserves the right to correct the deficiencies by whatever method it deems necessary and deduct the cost from the final payment due the Contractor.
- 7.32.9 The Contractor may further be prohibited from bidding in accordance with Section 2.12, DISQUALIFICATION OF BIDDERS. In addition, assessment of damages shall not prevent action under Section 7.27, TERMINATION OF CONTRACT FOR CAUSE.
- 7.33 FINAL SETTLEMENT OF CONTRACT
- 7.33.1 The contract will be considered settled after the project acceptance date and when the following items have been satisfactorily submitted, where applicable:
- 7.33.1.1 Necessary Submissions in addition to the items noted under Subsection 7.31.1.2.
- 7.33.1.2 All written guarantees required by the contract.
- 7.33.1.3 Complete and certified weekly payrolls for the Contractor and its Subcontractor(s).
- 7.33.1.4 Certificate of Plumbing and Electrical Inspection.
- 7.33.1.5 Certificate of Building Occupancy.

- 7.33.1.6 Certificate for Soil Treatment and Wood Treatment.
- 7.33.1.7 Certificate of Water System Chlorination.
- 7.33.1.8 Certificate of Elevator Inspection, Boiler and Pressure Pipe installation.
- 7.33.1.9 Certification of compliance with §103B-3 HRS, Employment of State Residents.
- 7.33.1.10 All other documents required by the Contract.
- 7.33.2 FAILURE TO SUBMIT CLOSING DOCUMENTS. The Contractor shall submit the final Payment Application and the above applicable closing documents within sixty (60) days from the date of Project Acceptance or the agreed to Punchlist completion date. Should the Contractor fail to comply with these requirements, the Chairman may terminate the Contract for cause. The pertinent provisions of Section 7.27, TERMINATION OF CONTRACT FOR CAUSE shall be applicable.
- 7.33.3 In addition, should the Contractor fail to furnish final closing documents within the required time period, the Project Manager shall assess liquidated damages as required by Section 7.26, FAILURE TO COMPLETE THE WORK ON TIME.
- 7.34 CONTRACTOR'S RESPONSIBILITY FOR WORK; RISK OF LOSS
- 7.34.1 Until the establishment of the Project Acceptance Date or Beneficial Occupancy, whichever is sooner, the Contractor shall take every necessary precaution against injury or damage to any part of the work caused by the perils insured by an All Risk policy, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and make good all injuries or damage to any portion of the work occasioned by the perils insured by an All Risk policy before the date of final acceptance and shall bear the risk and expense thereof.
- 7.34.2 After the Project Acceptance Date or Beneficial Occupancy, whichever is sooner, the Contractor shall be relieved of maintaining and protecting the work except for those portions of the work which have not been accepted including Punchlist deficiencies.
- 7.34.3 The risk of damage to the work from any hazard or occurrence that may be covered by a required Property Insurance policy is that of the Contractor, unless such risk of loss is placed elsewhere by express language in the Contract Documents. No claims for any loss or damage shall be recognized by the Department, nor will any such loss or damage excuse the complete and satisfactory performance of the Contract by the Contractor.
- 7.35 GUARANTEE OF WORK
- 7.35.1 In addition to any required manufacturers warranties, all work and equipment shall be guaranteed by the Contractor against defects in materials, equipment or workmanship for one year from the Project Acceptance Date or as otherwise specified in the Contract Documents.
- 7.35.2 REPAIR OF WORK. If, within any guarantee period, repairs or changes are required in connection with the guaranteed work, which in the opinion of the Project Manager is necessary due to materials, equipment or workmanship which are inferior, defective or not in accordance with the terms of the Contract, the Contractor shall within five (5) working days and without expense to the Department commence to:

- 7.35.2.1 Place in satisfactory condition in every instance all such guaranteed work and correct all defects therein; and
- 7.35.2.2 Make good and repair or replace to new or pre-existing condition all damages to the building, facility, work or equipment or contents thereof, resulting from such defective materials, equipment or installation thereof.
- 7.35.3 MANUFACTURER'S AND INSTALLER'S GUARANTEE. Whenever a manufacturer's or installer's guarantee on any product specified in the respective Specification sections, exceeds one year, this guarantee shall become part of this contract in addition to the Contractor's guarantee. Contractor shall complete the guarantee forms in the name of the Department and submit such forms to the manufacturer within such time required to validate the guarantee. Contractor shall submit to the Department a photocopy of the completed guarantee form for the Department's record as evidence that such guarantee form was executed by the manufacturer.
- 7.35.4 If a defect is discovered during a guarantee period, all repairs and corrections to the defective items when corrected shall again be guaranteed for the original full guarantee period. The guarantee period shall be tolled and suspended for all work affected by the defect. The guarantee period for work affected by the defect shall restart for its remaining duration upon confirmation by the Project Manager that the deficiencies have been repaired or remedied.

7.36 WORK OF AND CHARGES BY UTILITIES

- 7.36.1 The Contractor shall be responsible for scheduling and coordinating the work with the utility companies and applicable governmental agencies for permanent service installation and connections or modifications to existing utilities. The Contractor shall make available all portions of the work necessary for the utility companies to do their work. The Department shall not bear the risk of any damage to the contract work caused by any utility company, and work of repairing such damage and delay costs must be resolved between the Contractor, the utility company, and their insurers.
- 7.36.2 Unless stated as an allowance item to be paid by the Contractor, the Department will pay the utility companies and applicable governmental agencies directly for necessary modifications and connections. Contractor charges for overhead, supervision, coordination, profit, insurance and any other incidental expenses shall be included in the Contractor's Bid whether the utility is paid directly by the Department or by an allowance item in the Contract.

7.37 RIGHT TO AUDIT RECORDS

- 7.37.1 The STATE may, at reasonable times and places, audit the books and records of the CONTRACTOR, prospective contractor, subcontractor or prospective subcontractor which are related to the cost or pricing data, and a State contract, including subcontracts, other than a firm fixed-price contract. The Contractor and subcontractor(s) shall maintain the books and records for a period of four (4) years from the date of final payment under the Contract.
- 7.37.2 The Contractor shall ensure that its subcontractors comply with this requirement and shall bear all costs (including attorney's fees) of enforcement in the event of its subcontractor's failure or refusal to fully cooperate.
- 7.37.3 Additionally, Sections 231-7, 235-108, 237-39 and other HRS chapters through reference, authorize the Department of Taxation to audit all taxpayers conducting business within the State. Contractors

must make available to the Department of Taxation all books and records necessary to verify compliance with the tax laws.

7.38 RECORDS MAINTENANCE, RETENTION AND ACCESS

- 7.38.1 The Contractor and any subcontractor whose contract for services is valued at \$25,000 (twenty five thousand) or more shall, in accordance with generally acceptable accounting practices, maintain fiscal records and supporting documents and related files, papers, and reports that adequately reflect all direct and indirect expenditures and management and fiscal practices related to the Contractor and subcontractor's performance of services under this Contract.
- 7.38.2 The representative of the Department, the Chairman, the Attorney General, (the Federal granting agency, the Comptroller General of the United States, and any of their authorized representatives when federal funds are utilized), and the Legislative Auditor of the State of Hawaii shall have the right of access to any book, document, paper, file, or other record of the Contractor and any subcontractor that is related to the performance of services under this Contract in order to conduct an audit or other examination and /or to make copies, excerpts and transcripts for the purposes of monitoring and evaluating the Contractor and subcontractor's performance of services and the Contractor and subcontractor's program, management, and fiscal practices to assure the proper and effective expenditure of funds and to verify all costs associated with any claims made under this Contract.
- 7.38.3 The right of access shall not be limited to the required retention period but shall last as long as the records are retained. The Contractor and subcontractor shall maintain and retain all books and records related to the Contractor and subcontractor's performance of services under this Contract, including any cost or pricing data for three (3) years from the date of final payment, except that if any litigation, claim, negotiation, investigation, audit or other action involving the books and records has been started before the expiration of the three (3) year period, the Contractor and subcontractors shall retain the books and records until completion of the action and resolution of all issues that arise from it, or until the end of the three (3) year retention period, whichever occurs later. Furthermore, it shall be the Contractor's responsibility to enforce compliance with this provision by any subcontractor.
- COST OR PRICING DATA. Cost or pricing data must be submitted to the Agency purchasing officer and timely certified as accurate for contracts over \$100,000 unless the contract is for a multiple-term or as otherwise specified by the procurement officer. Unless otherwise required by the Agency procurement officer, cost or pricing data submission is not required for Contracts awarded pursuant to competitive sealed bid procedures. If certified cost or pricing data are subsequently found to have been inaccurate, incomplete, or noncurrent as of the date stated in the certificate, the STATE is entitled to an adjustment of the contract price, including profit or fee, to exclude any significant sum by which the price, including profit or fee, was increased because of the defective data. It is presumed that overstated cost or pricing data increased the contract price in the amount of the defect plus related overhead and profit or fee. Therefore, unless there is a clear indication that the defective data was not used or relied upon, the price will be reduced in such amount.
- 7.39.1 AUDIT OF COST OR PRICING DATA. When cost or pricing principles are applicable, the STATE may require an audit of cost or pricing data.

7.40 CONFIDENTIALITY OF MATERIAL

7.40.1 All material given to or made available to the CONTRACTOR by virtue of this Contract, which is identified as proprietary or confidential information, will be safeguarded by the CONTRACTOR and

shall not be disclosed to any individual or organization without the prior written approval of the STATE.

- 7.40.2 All information, data, or other material provided by the CONTRACTOR to the STATE shall be subject to the Uniform Information Practices Act, chapter 92F, HRS.
- 7.41 PUBLICITY. The CONTRACTOR shall not refer to the STATE, or any office, agency, or officer thereof, or any State employee, including the head of the purchasing agency, the Chief Procurement Officer, the Director, the Agency procurement officer, or to the services or goods, or both, provided under this Contract, in any of the CONTRACTOR's brochures, advertisements, or other publicity of the CONTRACTOR. All media contacts with the CONTRACTOR about the subject matter of this Contract shall be referred to the Agency procurement officer.
- OWNERSHIP RIGHTS AND COPYRIGHT. The STATE shall have complete ownership of all material, both finished and unfinished which is developed, prepared, assembled, or conceived by the CONTRACTOR pursuant to this Contract, and all such material shall be considered "works made for hire." All such material shall be delivered to the STATE upon expiration or termination of this Contract. The STATE, in its sole discretion, shall have the exclusive right to copyright any product, concept, or material developed, prepared, assembled, or conceived by the CONTRACTOR pursuant to this Contract.
- 7.43 GOVERNING LAW. The validity of this Contract and any of its terms or provisions, as well as the rights and duties of the parties to this Contract, shall be governed by the laws of the State of Hawaii. Any action at law or in equity to enforce or interpret the provisions of this Contract shall be brought in a state court of competent jurisdiction in Honolulu, Hawaii.
- 7.44 SEVERABILITY. In the event that a court declares any provision of this Contract invalid or unenforceable, such invalidity or unenforceability shall not affect the validity or enforceability of the remaining terms of this Contract.
- WAIVER. The failure of the STATE to insist upon the strict compliance with any term, provision, or condition of this Contract, shall not constitute or be deemed to constitute a waiver or relinquishment of the STATE's right to enforce the same in accordance with this Contract. The fact that the STATE specifically refers to one provision of the Procurement Rules or one section of the Hawaii Revised Statutes, and does not include other provisions or statutory sections in this Contract shall not constitute a waiver or relinquishment of the STATE's rights or the CONTRACTOR's obligations under the Procurement Rules or statutes.

7.46 UTILITIES AND SERVICES

- 7.46.1 Where its operations are next to or near properties of utility companies or other property, the CONTRACTOR shall not start work until the CONTRACTOR makes arrangements necessary for the protection of said property.
- 7.46.2 The CONTRACTOR shall cooperate, coordinate and schedule its work to suit the owners of underground or overhead utility lines or other property in removing or altering such lines or providing new services in order for the work to progress according to the contract. Cooperation includes rearranging the CONTRACTOR's operations and normal work schedules and realignment of work as approved by the Department in order to accommodate the operations and work of the utilities and/or other property in and around the work site at no additional cost to the Department.

- 7.46.3 The CONTRACTOR shall contact all the various utility companies before the start of the work to ascertain any existing utilities and to develop a full understanding of the utility requirements with respect to this project. The CONTRACTOR shall furnish the Project Manager with evidence that the CONTRACTOR has contacted the utility companies.
- 7.46.4 If the CONTRACTOR discovers that the existence and location of utilities in the contract plans are not correct, the CONTRACTOR shall not disturb the utilities and immediately notify the Project Manager. The Project Manager will advise the CONTRACTOR regarding actions to take.
- 7.46.5 The CONTRACTOR shall ascertain the exact location and depth of utilities within the project area. The CONTRACTOR shall mark such locations to warn workers or equipment operators of their existence and location. The CONTRACTOR shall be responsible to acquaint personnel working near utilities with the type, size, location and depth of the utilities and the consequences that might result from disturbances. The CONTRACTOR shall not start trenching or start similar operations until the CONTRACTOR has taken reasonable and appropriate precautions to protect the utilities.
- 7.46.6 Any utilities or other property that the CONTRACTOR encounters during the progress of the work, such as telephone ducts, electric ducts, water lines, sewer lines, electric lines and drainage pipes, whether shown or not on the contract plans, shall not be disturbed or damaged unless otherwise instructed in the plans and specifications.
- 7.46.7 In the event the utilities or other property are damaged or disturbed by the CONTRACTOR, the CONTRACTOR shall be liable for all such damage where the utilities or other property are:
 - (a) Shown on the plan in its actual or approximate location; or
 - (b) Exposed on the job as it progresses; or
 - (c) Pointed out to the CONTRACTOR in the field.
- 7.46.8 Such utilities or other property as described above shall be "known utilities or other property." If the CONTRACTOR encounters an unknown utility or other property, it shall not proceed until it has notified the Project Manager and receives instructions. If the Project Manager directs additional work, it shall be paid for under Section 4.2, CHANGES.
- 7.46.9 The CONTRACTOR shall repair and restore to pre-damaged condition any utilities or any other property it may damage, and it shall be liable for any and all resulting damage at no cost to the Department, the work or utility owner or property owner. Any damage claim due to the disruption of service caused by the utilities being damaged shall be paid by the CONTRACTOR who shall defend, indemnify and hold harmless the Department from all suits, actions or claims of any character brought on account of such damages, whether or not the Department may have been partially at fault. Public liability and property damage insurance to be obtained by the CONTRACTOR pursuant to Section 7.3 INSURANCE REQUIREMENTS shall cover such risk of damage.
- 7.46.10 In the event the CONTRACTOR simultaneously with the discovery of an unknown utility or other property damages that utility or other property, the CONTRACTOR shall not be held liable beyond the extent of the CONTRACTOR's liability insurance but shall immediately notify the Project Manager. Upon instruction from the Project Manager, the CONTRACTOR shall repair all damages and execute a plan for dealing with the damaged utility or other property. This repair work shall be considered additional work as covered in Section 4.2, CHANGES.

~END OF ARTICLE 7~

ARTICLE 8: MEASUREMENT AND PAYMENT

8.1 MEASUREMENT OF QUANTITIES

- 8.1.1 All work completed under the Contract shall be measured by the Project Manager according to United States standard measures, or as stated in this Contract. The method of measurement and computations to be used in determination of quantities of material furnished and of work performed under the contract shall conform to good Managing practice. These measurements shall be considered correct and final unless the Contractor has protested same to the Project Manager and has demonstrated the existence of an error by actual physical measurement before the work has progressed in a manner, which would prohibit a proper check.
- All measurements of the area of the various surfaces, pavement and base courses will be made in the horizontal projection of the actual surface and no deductions will be made for fixtures or structures having an area of nine (9) square feet or less. All measurements of headers, curbs, fences and any other type of construction which is to be paid for by its length will be made in the horizontal projection of the actual driven length from toe to top of cutoff, and for piles, which will be by actual length. All materials which are specified for measurement by the cubic yard "Loose Measurement" or "Measured in the Vehicle" shall be hauled in approved vehicles and measured therein at the point of delivery. Approved vehicles for this purpose may be of any type or size satisfactory to the Project Manager, provided that the body is of such type that the actual contents may be readily and accurately determined. Unless all approved vehicles on a job are of a uniform capacity each approved vehicle must bear a plainly legible identification mark indicating the specific approved capacity. The Inspector may reject all loads not hauled in such approved vehicles.
- 8.2 NO WAIVER OF LEGAL RIGHTS. The Project Manager shall not be precluded or estopped by any measurements, estimate or certificate made either before or after the completion and acceptance of the work and payment therefor, from showing the true amount and character of the work performed and materials furnished by the Contractor, or from showing that any such measurement estimate or certificate is untrue or incorrectly made, or rejecting the work or materials that do not conform in fact to the contract. The Project Manager shall not be precluded or estopped, notwithstanding any such measurement, estimate, or certificate and payment in accordance therewith, from recovering from the Contractor and its sureties such damages as the Department may sustain by reason of the Contractor's failure to comply with the terms of the Contract. Neither the acceptance by the Project Manager or any representative of the Project Manager, nor any payment for or acceptance of the whole or any part of the work, nor any extension of time, or any possession taken by the Project Manager, shall operate as a waiver of any portion of the contract, or of any power herein reserved, or any right to damage herein provided. A waiver of any notice requirement or breach of the contract shall not be held to be a waiver of any other notice requirement or subsequent breach.

8.3 PAYMENT FOR ADDITIONAL WORK

- 8.3.1 Additional work as defined in Section 4.2, CHANGES, when ordered, shall be paid for as defined in Section 4.4, PRICE ADJUSTMENT by a duly issued change order in accordance with the terms provided therein.
- 8.3.2 On credit proposals and proposals covering both increases and decreases, the application of overhead and profit shall be on the net change in direct costs for the performance of the work.
- 8.3.3 When payment is to be made for additional work directed by a Field Order, the total price adjustment as specified in the Field Order or if not specified therein for the work contained in the related change

order shall be considered full compensation for all materials, labor, insurance, taxes, equipment use or rental and overheads, both field and home office including extended home and branch office overhead and other related delay impact costs.

- 8.3.4 FORCE ACCOUNT METHOD. When, for the convenience of the Department, payment is to be made by the Force Account method, all work performed or labor and materials and equipment furnished shall be paid for as described below. Payment by the Force Account method will not alter any rights, duties and obligations under the contract.
- 8.3.4.1 LABOR. For all hourly workers, the Contractor will receive the rate of wage including fringe benefits when such amounts are required by collective bargaining agreement or other employment contract generally applicable to the classes of labor employed on the work, which shall be agreed upon in writing before beginning work for each and every hour that said labor is actually engaged in said work.
 - (a) All markups for overhead and profit shall be added subject to limitations established in Section 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT.
 - (b) No allowance for overtime compensation will be given without the written approval of the Project Manager prior to performance of such work.
- 8.3.4.2 INSURANCE AND TAXES. The Contractor and subcontractor(s) will also receive the actual additional costs paid for property damage, liability, worker's compensation insurance premiums, State unemployment contributions, Federal unemployment taxes, social security and Medicare taxes.
- 8.3.4.3 MATERIALS. For materials accepted by the Project Manager and used, the Contractor and subcontractor(s) shall receive the actual cost of such materials delivered and incorporated into work, plus a markup allowed under Section 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT.
- 8.3.4.4 SUBCONTRACTORS. Subcontractor costs shall be the actual costs of the subcontractor marked up as defined in this Section 8.3, PAYMENT FOR ADDITIONAL WORK plus a markup allowed under Section 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT.

8.3.4.5 EQUIPMENT

- (a) For machinery or special equipment (other than small tools as herein defined in Subsection 8.3.4.5.(h) owned or leased by the Contractor or a related entity, the use of which has been authorized by the Project Manager:
 - (1) The Contractor will be paid at the per-hour rental rates based on the monthly rate established for said machinery or equipment in the then-current edition of the Rental Rate Blue Book for Construction Equipment including the estimated operating cost per hour and regional correction provided therein.
 - (2) If no rate is listed for a particular kind, type or size of machinery or equipment, then the monthly, hourly rates shall be as agreed upon in writing by the Contractor and the Project Manager prior to the use of said machinery or equipment. If there is no agreement, the Project Manager will set a rate. The Contractor may contest the rate pursuant to Section 7.25, DISPUTES AND CLAIMS.
 - (3) Rental rates which are higher than those specified in the aforesaid Rental Rate Blue Book publication may be allowed where such higher rates can be justified by job conditions such as work in water and work on lava, etc. Request for such higher rates shall be submitted in writing to the Project Manager for approval prior to the use of the machinery or equipment in question.

- (b) For machinery or special equipment [other than small tools as herein defined in clause 8.3.4.5 (h)] rented by the Contractor or a related entity specifically for the Force Account work, the use of which has been authorized by the Project Manager, the Contractor will be paid the actual rental cost for the machinery or equipment, including mobilization and demobilization costs. A receipt from the equipment supplier shall be submitted to the Project Manager.
- (c) For machinery or special equipment [other than small tools as herein defined in clause 8.3.4.5 (h)] rented by the Contractor or a related entity for use in the project, but which will also be used for the Force Account work, the use of which has been authorized by the Project Manager, the Contractor will be paid the actual rental cost for the machinery or equipment. No additional mobilization and demobilization costs will be paid. A receipt from the equipment supplier shall be submitted to the Project Manager.
- (d) The rental rate for trucks not owned by the Contractor shall be those as established under the Hawaii State Public Utilities Commission, which will be paid for as an equipment item pursuant to Subsection 8.3.4.5, EQUIPMENT. Rental rates for Contractor owned trucks not listed in the Rental Rate Blue Book shall be agreed upon in writing by the Contractor and Project Manager prior to the use of said trucks. If there is no agreement, the Project Manager shall set the rate. The Contractor may contest the rate pursuant to Section 7.25, DISPUTES AND CLAIMS.
- (e) The rental period shall begin at the time equipment reaches the site of work, shall include each day that the machinery or equipment is at the site of the work and shall terminate at the end of the day on which the equipment is no longer needed. In the event the equipment must standby due to work being delayed or halted by reason of design, traffic, or other related problems uncontrollable by the Contractor, excluding Saturdays, Sundays and Legal Holidays, unless the equipment is used to perform work on such days, the rental shall be two (2) hours per day until the equipment is no longer needed.
 - (1) The rental time to be paid will be for the time actually used. The Project Manager prior to the performance of such work must approve any hours or operation in excess of eight (8) hours in any one (1) day.
 - (2) Rental time will not be allowed or credited for any day on which machinery or equipment is inoperative due to its breakdown. On such days, the Contractor will be paid only for the actual hours, if any, that the machinery or equipment was in operation.
 - (3) In the event the Force Account work is completed in less than eight (8) hours, equipment rental shall nevertheless be paid for a minimum eight (8) hours.
 - (4) For the purpose of determining the rental period the continuous and consecutive days shall be the normal eight (8) hour shift work day, Monday through Friday excluding legal holidays. Any work day to be paid less than eight (8) hours shall not be considered as continuous, except for equipment removed from rental for fuel and lubrication.
 - (5) No additional premium beyond the normal rates used will be paid for equipment over eight (8) hours per day or forty (40) hours per week.
- (f) All rental rates for machinery and equipment shall include the cost of fuel, oil, lubricants, supplies, small tools, necessary attachments, repairs, maintenance, tire wear, depreciation, storage, and all other incidentals.

- (g) All machinery and equipment shall be in good working condition and suitable for the purpose for which the machinery and equipment is to be used.
- (h) Individual pieces of equipment or tools having a replacement value of \$2,000 (two thousand dollars) or less, whether or not consumed by use, shall be considered to be small tools and included in the allowed markup for overhead and profit and no separate payment will be made therefor.
- (i) The total of all Force Account rental charges accrued over the duration of the contract for a specific item of equipment shall not exceed the replacement cost of that equipment.
 - (1) The Contractor shall provide the cost of replacement to the Project Manager prior to using the equipment. If the Project Manager does not agree with the replacement cost, the Project Manager shall set the replacement cost. The Contractor may contest the replacement cost pursuant to Section 7.25, DISPUTES AND CLAIMS.
- (j) Should the item of equipment be rented from an unrelated entity, the rental cost will be treated as equipment cost under Subsection 8.3.4.5, EQUIPMENT.
- (k) Transportation and/or Mobilization: The following provisions shall govern in determining the compensation to be paid to the Contractor for use of equipment or machinery on the Force Account method:
 - (1) The Project Manager shall approve the location from which the equipment is to be moved or transported.
 - Where the equipment must be transported to the site of the Force Account work, the Department will pay the reasonable cost of mobilizing and transporting the equipment, including its loading and unloading, from its original location to the site of Force Account work. Upon completion of the work the Department will pay the reasonable cost of mobilizing and transporting the equipment back to its original location or to another location, whichever cost is less.
 - (3) The cost of transporting the equipment shall not exceed the rates established by the Hawaii State Public Utilities Commission. If such rates are nonexistent, then the rates will be determined by the Project Manager based upon the prevailing rates charged by established haulers within the locale.
 - (4) Where the equipment is self-propelled, the Department will pay the cost of moving the equipment by its own power from its original location to the site of the Force Account work. Upon completion of the work the Department will pay the reasonable cost of moving of the Equipment back to its original or another location, whichever cost is less.
 - (5) At the discretion of the Project Manager, when the Contractor desires to use such equipment for other than Force Account work, the costs of mobilization and transportation shall be prorated between the Force Account and non-Force Account work.
- (l) Pickup trucks, vans, storage trailers, unless specifically rented for the Force Account work, shall be considered incidental to the Force Account work and the costs therefor are included in the markup allowed under Section 4.5, ALLOWANCES FOR OVERHEAD AND PROFIT.

- 8.3.4.6 STATE EXCISE (GROSS INCOME) TAX AND BOND. A sum equal to the current percentage rate for the State excise (Gross Income) tax on the total sum determined in Subsections 8.3.4.1, 8.3.4.2, 8.3.4.3 and 8.3.4.4 above, and the bond premium shall be added as compensation to the Contractor. The actual bond premium not to exceed one percent (1%) shall be added to items covered by Subsections 8.3.4.1, 8.3.4.2, 8.3.4.3 and 8.3.4.4 when applicable.
 - (a) The compensation as determined in Subsections 8.3.4.1, 8.3.4.2, 8.3.4.3, 8.3.4.4 and 8.3.4.5 above shall be deemed to be payment in full for work paid on a Force Account basis.
- 8.3.4.7 RECORDS. The Contractor and the Project Manager shall compare records of the labor, materials and equipment rentals paid by the Force Account basis at the end of each day. These daily records, if signed by both parties, shall thereafter be the basis for the quantities to be paid for by the Force Account method. The Contractor shall not be entitled to payment for Force Account records not signed by the Project Manager.
- 8.3.4.8 STATEMENTS. No payment will be made for work on a Force Account basis until the Contractor has submitted to the Project Manager, duplicate itemized statements of the cost of such Force Account work detailed as follows:
 - (a) Laborers. Name, classification, date, daily hours, total hours, rate, and extension for each laborer and foreman and also the amount of fringe benefits payable if any.
 - (b) Equipment. Designation, dates, daily hours, total hours, rental rate, and extension for each unit of machinery and equipment.
 - (c) Materials:
 - (1) Quantities of materials, prices and extensions.
 - (2) Costs of transporting materials, if such cost is not reflected in the prices of the materials.
 - (3) Statements shall be accompanied and supported by receipted invoices for all materials used and transportation charges. However, if materials used on the Force Account work are not specifically purchased for such work but are taken from the Contractor's stock, then in lieu of the invoices the Contractors shall submit an affidavit certifying that such materials were taken from stock and that the amount claimed represents the actual cost to the Contractor.
 - (d) Insurance. Cost of property damage, liability and worker's compensation insurance premiums, unemployment insurance contributions, and social security tax.

8.4 PROGRESS AND/OR PARTIAL PAYMENTS

- 8.4.1 PROGRESS PAYMENTS. The Contractor will be allowed progress payments on a monthly basis upon preparing the Monthly Payment Application forms and submitting the originals to the Project Manager. The monthly payment shall be based on the items of work satisfactorily completed and the value thereof at unit prices and/or lump sum prices set forth in the contract as determined by the Project Manager and will be subject to compliance with Section 7.9, PAYROLLS AND PAYROLL RECORDS.
- 8.4.1.1 ORIGINAL INVOICES REQUIRED. All payments under this Contract shall be made only upon submission by the CONTRACTOR of original invoices specifying the amount due and certifying that services requested under the Contract have been performed by the CONTRACTOR according to the Contract.
- 8.4.1.2 SUBJECT TO AVAILABLE FUNDS. Such payments are subject to availability of funds and allotment by the Director of Finance in accordance with chapter 37, HRS. Further, all payments shall be made in accordance with and subject to chapter 40, HRS.

- 8.4.2 In the event the Contractor or any Subcontractor fails to submit certified copies of payrolls in accordance with the requirements of Section 7.9, PAYROLLS AND PAYROLL RECORDS, the Project Manager may retain the amount due for items of work for which payroll affidavits have not been submitted on a timely basis notwithstanding satisfactory completion of the work until such records have been duly submitted. The Contractor shall not be due any interest payment for any amount thus withheld.
- 8.4.3 PARTIAL PAYMENT FOR MATERIALS. The Contractor will also be allowed partial payments to the extent of ninety percent (90%) of the manufacturer's, supplier's, distributor's or fabricator's invoice cost of accepted materials to be incorporated in the work on the following conditions:
- 8.4.3.1 The materials are delivered and properly stored at the site of the work; or
- 8.4.3.2 For special items of materials accepted by the Project Manager, the materials are delivered to the Contractor or subcontractor(s) and properly stored in an acceptable location within a reasonable distance to the site of the work.
- 8.4.4 Partial payments shall be made only if the Project Manager finds that:
- 8.4.4.1 The Contractor has submitted bills of sale for the materials or otherwise demonstrates clear title to such materials.
- 8.4.4.2 The materials are insured for their full replacement value to the benefit of the Department against theft, fire, damages incurred in transportation to the site, and other hazards.
- 8.4.4.3 The materials are not subject to deterioration.
- 8.4.4.4 In case of materials stored off the project site, the materials are not commingled with other materials not to be incorporated into the project.
- 8.4.5 FEDERAL FUNDS. If this Contract is payable in whole or in part from federal funds, Contractor agrees that, as to the portion of the compensation under this Contract to be payable from federal funds, the Contractor shall be paid only from such funds received from the federal government, and shall not be paid from any other funds.
- 8.4.6 Final Payment Requirements (§3-122-112, HAR). Upon receipt of the Contractor's invoice for final payment, the Department shall verify compliance with Section 103D-328 HRS via Hawaii Compliance Express (HCE).
- 8.5 PROMPT PAYMENT (§3-125-23 HAR)
- 8.5.1 Any money, other than retainage, paid to the CONTRACTOR shall be dispersed to subcontractors within ten days after receipt of the money in accordance with the terms of the subcontract; provided that the subcontractor has met all the terms and conditions of the subcontract and there are no bona fide disputes; and
- 8.5.2 BONA FIDE DISPUTES. The existence of a bona fide dispute with a subcontractor or material supplier shall not release the Contractor of its prompt payment obligations as to all sums due that are not directly affected by such dispute.

- 8.5.3 FILING NON-PAYMENT COMPLAINT. Subcontractors and material suppliers may file in writing a complaint with the Chairman regarding non-payment by the Contractor. Such complaint shall include:
- 8.5.3.1 The amount past due for work performed and already paid for by the Department;
- 8.5.3.2 That all the terms, conditions or requirements of its subcontract have been met; and
- 8.5.3.3 That no bona fide dispute over its performance exists. The Department will investigate the validity of the complaint.
- 8.5.4 The Department may withhold from future progress payments amounts to cover any sums paid to the Contractor for work performed by a subcontractor if the Department finds that the subcontractor complaint regarding non-payment by the Contractor has merit.
- 8.5.5 If the Project Manager determines that the Contractor failed to make prompt payment required to a subcontractor or material supplier with whom it has no bona fide dispute, the Project Manager shall inform the Contractor of the findings and request the Contractor make payment accordingly. If the Contractor does not act promptly, the Project Manager shall take appropriate action as allowed under this Contract and/or refer the matter to the Contractor Licensing Board for appropriate action under Section 444-17, Hawaii Revised Statutes regarding the Revocation, Suspension and Renewal of (Contractor) Licenses and/or initiate a petition for debarment of the Contractor from bidding on other Department jobs.

8.6 RETAINAGE

- 8.6.1 The Department will retain five percent (5%) of the total amount of progress and / or partial payments until after completion of the entire Contract in an acceptable manner at which time this balance, less any previous payments, will be certified and paid to the Contractor. After fifty percent (50%) of the work is completed and progress is satisfactory, no additional sum will be withheld. If progress is not satisfactory, the Department may continue to withhold retainage sums not exceeding five percent (5%) of the amount due the Contractor.
- 8.6.1.1 Contractor may withhold from amounts due its subcontractors, only the same percentage of retainage as that of the Contractor, and only if its subcontractors have provided valid performance and payments bonds or other bond or collateral acceptable to the Contractor.
- 8.6.1.2 Contractor or Subcontractor may negotiate with, and retain from its respective subcontractors, a different retainage percentage which cannot exceed ten percent (10%).
- 8.6.2 The retainage shall not include sums deducted as liquidated damages from monies due or that may become due the Contractor under the Contract.
- WARRANTY OF CLEAR TITLE. The Contractor warrants and guarantees that all work and materials covered by progress or partial payments made thereon shall be free and clear of all liens, claims, security interests or encumbrances, and shall become the sole property of the Department. This provision shall not, however, be construed as an acceptance of the work nor shall it be construed as relieving the Contractor from the sole responsibility for all materials and work upon which payments have been made or the restoration of any damaged work, or as waiving the right of the Department to require the fulfillment of all the items of the Contract.

- 8.7.1 LIENS AND WARRANTIES. Goods provided under this Contract shall be provided free of all liens and provided together with all applicable warranties, or with the warranties described in the Contract documents, whichever are greater.
- 8.8 FINAL PAYMENT
- 8.8.1 Upon final payment to the CONTRACTOR, full payment to the subcontractor, including retainage, shall be made within ten days after receipt of the money; provided that there are no bona fine disputes over the subcontractor's performance under the subcontract.
- 8.8.2 Sums necessary to meet any claims of any kind by the Department may be retained from the sums due the Contractor until said claims have been fully and completely discharged or otherwise satisfied.
- STATE'S RIGHT TO OFFSET. The STATE may offset against any monies or other obligations the STATE owes to the CONTRACTOR under this Contract, any amounts owed to the State of Hawaii by the CONTRACTOR under this Contract or any other Contracts or pursuant to any law or other obligation owed to the State of Hawaii by the CONTRACTOR, including, without limitation, the payment of any taxes or levies of any kind or nature. The STATE will notify the CONTRACTOR in writing of any offset and the nature of such offset. For purposes of this Subsection, amounts owed to the State of Hawaii shall not include debts or obligations which have been liquidated, agreed to by the CONTRACTOR, and are covered by an installment payment or other settlement plan approved by the State of Hawaii, provided, however, that the CONTRACTOR shall be entitled to such exclusion only to the extent that the CONTRACTOR is current with, and not delinquent on, any payments or obligations owed to the State of Hawaii under such payment or other settlement plan.

~END OF ARTICLE 8~

SPECIAL CONDITIONS

Project: Kanakaloloa Cemetery Improvements

Location: Hoolehua, Molokai, County of Maui, State of Hawaii

IFB No. IFB-16-HHL-011

Contractor: TBD

SC-01 INTERCHANGEABLE TERMS

The following terms are one and the same:

a. "Contract" and "Agreement".

b. "Department of Hawaiian Home Lands" "Department" "DHHL" and "STATE".

SC-02 INSURANCE COVERAGE

The CONTRACTOR shall obtain separate insurance coverage for this project that complies with the requirements set forth in the DHHL Construction General Conditions, Article 7, Section 7.3, as amended. Payment for all work required to comply with this item will not be paid for separately but shall be considered incidental to the various contract items.

CONTRACTOR shall maintain insurance acceptable to the STATE in full force and effect throughout the term of this Contract. The policies of insurance maintained by CONTRACTOR shall provide the following minimum coverage:

| Coverage | <u>Limit</u> |
|---|--|
| General Liability Insurance (occurrence form) | Bodily Injury and Property Damage (combined single limit): \$1,000,000 per occurrence and \$2,000,000 aggregate |
| | Personal Injury: \$1,000,000 per occurrence and \$2,000,000 aggregate |
| Automobile Insurance (covering all owned, non-owned and hired automobiles) | Bodily Injury: \$1,000,000 per person and \$1,000,000 per occurrence. |
| | Property Damage: \$1,000,000 per accident or combined single limit of \$2,000,000. |
| Workers Compensation (statutory limit is required by laws of the State of Hawaii) | Insurance to include Employer's Liability. Both such coverages shall apply to all employees of the CONTRACTOR and, in case any subcontractor fails to provide adequate similar protection for all his employees, to all employees of subcontractors. |
| Builder's Risk covering the CONTRACTOR and all subcontractors | 100% Replacement Value |



SPECIAL CONDITIONS

Fire and extended coverage 100% Replacement Value

Malicious Mischief 100% Replacement Value

Flood Insurance, if applicable Maximum Coverage available

- a. The State of Hawaii, Department of Hawaiian Home Lands, its elected and appointed officials, officers, employees, and agents shall be named as additional insured with respect to operations, services or products provided to the State of Hawaii. CONTRACTOR agrees to provide to the DHHL, before the effective date of the Contract, certificate(s) of insurance necessary to evidence compliance with insurance provisions of this Contract. CONTRACTOR shall keep such insurance in effect and the certificate(s) on deposit with DHHL during the entire term of this Contract. Upon request by the STATE, CONTRACTOR shall furnish a copy of the policy or policies.
- b. Failure of CONTRACTOR to provide and keep in force such insurance shall be regarded as a material default under this Contract. The STATE shall be entitled to exercise any or all of the remedies provided in this Contract for default of CONTRACTOR.
- c. The procuring of such required policy or policies of insurance shall not be construed to limit CONTRACTOR's liability under this Contract or to fulfill the indemnification provisions and requirements of this Contract. Notwithstanding said policy or policies of insurance, CONTRACTOR shall be obliged for the full and total amount of any damage, injury, or loss caused by negligence or neglect connected with this Contract.
- d. CONTRACTOR shall immediately provide written notice to the contracting department or agency should any of the insurance policies evidenced on its Certificate of Insurance form be cancelled, limited in scope, or not renewed upon expiration.
- e. DHHL is a self insured State agency. CONTRACTOR's insurance shall be primary. Any insurance maintained by the State of Hawaii shall apply in excess of, and shall not contribute with, insurance provided by CONTRACTOR.
- f. The CONTRACTOR shall require all subcontractors to have in full force and in effect the same insurance coverage as required of the CONTRACTOR. Such insurance shall name the State of Hawaii, Department of Hawaiian Home Lands, its elected and appointed officials, officers, employees, and agents as additional insured with respect to operations, services or products provided to the State of Hawaii. The CONTRACTOR shall be responsible to enforce its subcontractors' compliance with these insurance requirements and CONTRACTOR shall, upon request, provide the STATE a copy of the policy or policies of insurance for any subcontractor.

SC-03 COMPLETION SCHEDULE AND LIQUIDATED DAMAGES

The CONTRACTOR shall complete all work as specified or indicated in the Contract Documents on or before seven hundred thirty (730) consecutive calendar days after

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STATE OF HAWAII

SPECIAL CONDITIONS

receiving written Notice to Proceed, subject to extensions, as may be granted for justification reasons

In case of failure on the part of the CONTRACTOR to complete the work within the time specified, the CONTRACTOR shall pay to DHHL as liquidated damages, and not as a penalty, \$200.00 per calendar day for each day that the project, in its entirety, remains incomplete.

SC-04 PROCESS THROUGH DHHL

Any and all submittals, reports, requests, claims and notices under the contract shall be processed through Land Development Division Project Manager, at Hale Kalanianaole, 91-5420 Kapolei Parkway, Kapolei, Hawaii 96707.

SC-05 SURVEYING SERVICES

Any surveying services required shall be the responsibility of the contractor and considered incidental to the scope of work under this contract and therefore covered under the terms of this contract. No separate payment shall be made.

Upon completion, the Contractor shall prepare an as-built plan for the project site in which the finished grades are certified by a Registered Land Surveyor. Six (6) copies of the as-built plan shall be submitted to the Construction Manager and Engineer. The as-built plan shall be incidental to the contract. No separate payment shall be made.

Finished grades shall include as a minimum the following;

- 1. Concrete pad elevation for the future pavilion
- 2. Parking lot corners
- 3. American's with Disabilities Act (ADA) accessible parking stalls to ensure that slopes do not exceed 2% in any direction.
- 4. Concrete sidewalk connecting the parking lot and the concrete pad along the ADA accessible path.
- 5. Roadway intersections

SC-06 ALLOWANCES

The proposal may contain payment items designated as allowances (i.e. mitigation of any inadvertent discovery of human remains). Funds listed in allowance items are to be spent at the direction of DHHL. The allowance is an estimate only and is subject to increase or decrease depending on the actual cost of the item. The funds are for the direct costs of an item and all pricing, submittal and review, overhead, installation, profit, insurance, surety,

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processing of the issuance of checks for payment to other parties, and all other costs will be included. No payment will be made for incidental costs. An Allowance is made for inadvertent discovery of burials.

Any unspent allowance costs will be deducted from the contract by change order prior to final payment.

SC-07 PERMITS AND FEES

Contractor shall apply and pay for all permits and inspection fees as required by all governmental agencies having jurisdiction over this project. No time extension will be approved without written justifications from governmental agencies for permitting delays.

SC-08 COORDINATION WITH OTHER PARTIES

The CONTRACTOR shall coordinate all the necessary work for maintaining water service to include disruption or restriction to water service, temporary utility services, permanent service and appurtenances with the Project Manager and appropriate agencies, including but not limited to DHHL for potable water, and the Molokai Fire Department for fire protection.

The CONTRACTOR shall coordinate all necessary work for maintaining access to portions of the cemetery to the public, coordinating closures and restrictions to certain portions of the cemetery, temporary accesses for vehicles and/or pedestrians, and proper security for the project site with the Project Manager and appropriate agencies.

SC-09 CONTRACTOR'S LICENSING

It is the CONTRACTOR's sole responsibility to review the requirements of this project and determine the appropriate contractor's licenses that are required to complete the project. If the CONTRACTOR does not hold all of the licenses required to perform a particular item of work on this project with its own workers, when bidding, he must list subcontractors that hold the appropriate licenses in its proposal.

SC-10 WATER CHARGES AND REQUIREMENTS

DHHL will make reasonable quantities of potable water available for the CONTRACTOR use at no cost to the CONTRACTOR. CONTRACTOR shall coordinate and obtain authorization for the water supply point(s) and amounts of water required with the Project Manager. Contractor shall furnish, install, and maintain a temporary flow meter at the supply point as accepted by the Project Manager. Flow meter shall be calibrated as accepted by the Project Manager. Contractor shall provide weekly reports of water usage to the Project Manager.



SPECIAL CONDITIONS

SC-11 SOIL AND DUST CONTROL

To control the dust during construction, the CONTRACTOR shall have an adequate supply of water for dust control and if necessary, moisture conditioning of fill material at all times. The CONTRACTOR shall institute an erosion control program and dust control program to minimize soil erosion and wind erosion and airborne fugitive dust nuisance, respectively for the entire duration of this project.

SC-12 FINAL INSPECTION

Throughout the construction period, the work may be subject to periodic inspection by the Department, designated Construction Inspector, the County of Maui, and other applicable government agencies. Once work has been satisfactorily completed, the County, accompanied by the Department and Construction Inspector, will make the final inspection of the work to determine whether all work has been done in complete compliance with the requirements of the plans and these specifications.

The CONTRACTOR shall therefore schedule the final inspection with the Department of Public Works of the County of Maui and notify the Department's Project Manager one week prior to said inspection.

Neither the scheduling nor the conduct of the aforementioned final inspection shall be deemed a waiver of the Department's right to subsequently require CONTRACTOR to complete all unfinished or defective work to the satisfaction of the Department.

SC-13 APPRENTICESHIP AGREEMENT PREFERENCE – CONTRACTOR'S RESPONSIBILITY

- 1. For the duration of the contract awarded utilizing the Hawai'i Apprenticeship Preference, the CONTRACTOR shall certify each month that work is being conducted on the project, that it continues to be a participant in the relevant apprenticeship program for each trade it employs.
- 2. Monthly certification shall be made on MONTHLY REPORT OF CONTRACTOR'S PARTICIPATION IN APPROVED APPRENTICESHIP PROGRAM UNDER ACT 17 (Monthly Certification Form 2) prepared and made available by the DLIR. Monthly Certification Form 2 shall be a signed original by the respective apprenticeship program sponsor's authorized official, and submitted by the Contractor with its monthly payment requests. Monthly Certification Form 2 is available on the DLIR website at: http://hawaii.gov/labor/wdd
- 3. Should the Contractor fail or refuse to submit its monthly certification forms, or at any time during the construction of the project, cease to be a party to a registered apprenticeship agreement for each apprentice able trade the Contractor employs, the Contractor will be subject to the following sanctions:



SPECIAL CONDITIONS

- a. Withholding of the requested payment until the required form(s) are submitted;
- b. Temporary or permanent cessation of work on the project, without recourse to breach of contract claims by the Contractor; provided the DHHL shall be entitled to restitution for nonperformance or liquidated damages claims; or
- c. Proceed to debar pursuant to HRS §103D-702.
- 4. If events such as "acts of God," acts of a public enemy, acts of the State or any other governmental body in its sovereign or contractual capacity, fires, floods, epidemics, freight embargoes, unusually severe weather, or strikes or other labor disputes prevent the Contractor from submitting the certification forms, the Contractor shall not be penalized as provided herein, provided the Contractor completely and expeditiously complies with the certification process when the event is over.

SC-14: COMPLIANCE WITH HAWAII REVISED STATUTES (HRS) CHAPTER 103B - EMPLOYMENT OF STATE RESIDENTS ON CONSTRUCTION PROCUREMENT CONTRACTS

The CONTRACTOR shall comply with the requirements of Hawaii Revised Statutes (HRS) Chapter 103B, Employment of State Residents on Construction Procurement Contracts, as follows:

- 1. Definitions for terms used in HRS Chapter 103B:
 - a. "Contract" means contracts for construction under chapter 103D, HRS.
 - b. "Contractor" has the same meaning as in section 103D-104, HRS, provided that "contractor" includes a subcontractor where applicable.
 - c. "Construction" has the same meaning as in section 103D-104, HRS.

- d. "Procurement Officer" has the same meaning as in section 103D-104, HRS.
- e. "Resident" means a person who is physically present in the State of Hawaii at the time the person claims to have established the person's domicile in the State of Hawaii and shows the person's intent is to make Hawaii the person's primary residence.
- f. "Shortage trade" means a construction trade in which there is a shortage of Hawaii residents qualified to work in the trade as determined by the Department of Labor and Industrial Relations.



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- 2. HRS Chapter 103B– Employment of State Residents Requirements:
 - a. A contractor awarded a contract shall ensure that Hawaii residents comprise not less than eighty per cent of the workforce employed to perform the contract work on the project. The 80% requirement shall be determined by dividing the total number of hours worked on the contract by Hawaii residents, by the total number of hours worked on the contract by all employees of the Contractor in the performance of the contract. The hours worked by any Subcontractor of the Contractor shall count towards the calculation for this section. The hours worked by employees within shortage trades, as determined by the Department of Labor and Industrial Relations (DLIR), shall not be included in the calculation for this section.
 - b. Prior to award of a contract, an Offeror/Bidder may withdraw an offer/bid without penalty if the Offeror/Bidder finds that it is unable to comply with HRS Chapter 103B.
 - c. Prior to starting any construction work, the Contractor shall submit the subcontract dollar amount for each of its Subcontractors.
 - d. The requirements of this section shall apply to any subcontract of \$50,000 or more in connection with the Contractor; that is, such Subcontractors must also ensure that Hawaii residents comprise not less than 80% of the Subcontractor's workforce used to perform the subcontract.
 - e. The Contractor and any Subcontractor whose subcontract is \$50,000 or more shall comply with the requirements of HRS Chapter 103B.
 - 1) Certification of compliance shall be made in writing under oath by an officer of the General Contractor and applicable Subcontractors and submitted with the final payment.
 - 2) The certification of compliance shall be made in writing under oath by an officer of the company by completing a "Certification of Compliance for Employment of State Residents" form and executing the Certificate before a licensed notary public.
 - 3) In addition to the certification of compliance as indicated above, the Contractor and Subcontractors shall maintain records such as certified payrolls for laborers and mechanics who performed work at the site and time sheets for all other employees who performed work on the project. These records shall include the names, addresses and numbers of hours worked on the project by all employees of the Contractor and Subcontractor who performed work on the project to validate compliance with HRS Chapter 103B. The Contractor and



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Subcontractors shall retain these records and provide access to the State for a minimum period of four (4) years after the final payment, except that if any litigation, claim, negotiation, investigation, audit or other action involving the records has been started before the expiration of the four-year period, the Contractor and Subcontractors shall retain the records until completion of the action and resolution of all issues that arise from it, or until the end of the four year period, whichever occurs later. Furthermore, it shall be the Contractor's responsibility to enforce compliance with this provision by any Subcontractor.

- f. A General Contractor or applicable Subcontractor who fails to comply with this section shall be subject to any of the following sanctions:
 - 1) With respect to the General Contractor, withholding of payment on the contract until the Contractor or its Subcontractor complies with HRS Chapter 103B.
 - 2) Proceedings for debarment or suspension of the Contractor or Subcontractor under Hawaii Revised Statues §103D-702.
- 3. <u>Conflict with Federal Law</u>: This section shall not apply if the application of this chapter is in conflict with any federal law, or if the application of this chapter will disqualify any state or county agency from receiving federal funds or aid.

SC-15 GENERAL CONDITIONS

In the event of conflicts and/or discrepancies, the DHHL Construction General Conditions shall govern over AG-008 103D General Conditions.

SC-16 INADVERTENT DISCOVERY OF HUMAN BURIALS

In the event human burials are discovered, the CONTRACTOR shall immediately stop work in the vicinity of the burial and contact the following parties and agencies immediately: State Historic Preservation Division, DHHL, Office of Hawaiian Affairs and the Maui - Lanai Islands Burial Council. The discovery of human remains should not prevent the contractor from working on other areas at the work site.

DHHL may provide the CONTRACTOR with additional time for the mitigation of any inadvertent discovery of human remains per the DHHL Construction General Conditions, sections 7.21.5 through 7.21.5.4.

An allowance item of \$15,000 for required mitigation of inadvertent discovery of human burials is included in the payment provisions of the contract, for Contractor's time and materials as needed. Funds listed in allowance items are to be spent at the direction of DHHL. The allowance is an estimate only and is subject to increase or decrease depending on the actual cost of the item. The funds are for the direct costs of an item and



SPECIAL CONDITIONS

all pricing, submittal and review, overhead, installation, profit, insurance, surety, processing of the issuance of checks for payment to other parties, and all other costs will be included. No payment will be made for incidental costs.

Contractor shall provide unit cost prices for the mitigation work, and time and materials will be negotiated when the scope of work is determined. No work shall be performed by the contractor without prior written authorization from DHHL. Any unspent allowance costs will be deducted from the contract by change order prior to final payment.

SC-17 ARCHEOLOGICAL MONITORING PLAN, ARCHEOLOGICAL MONITOR, AND ARCHEOLOGICAL MONITORING REPORT

Due to the location and sensitivity of the project, within Kanakaloloa Cemetery, DHHL has secured Keala Pono Archeology Consultants to prepare an Archeological Monitoring Plan (AMP) to be implemented, referenced, and enforced during construction activities. DHHL will provide the CONTRACTOR with a copy of the plan.

The CONTRACTOR is responsible for implementing the plan, conducting all work in accordance with the AMP. The CONTRACTOR shall also be responsible for contracting with an approved and licensed/certified archeological consulting firm to conduct the fieldwork and monitoring required as part of the plan. Such firm will fulfill the role of the Archeological Monitor as required by the AMP. The Archeological Monitor shall have the ability and authority to halt work if necessary, should the presence of human burials be discovered or may be reasonably expected or anticipated by the Archeological Monitor. Work shall not resume until conditions are satisfactory to the Archeological Monitor, if human burials are sufficiently avoided or protected.

The Contractor, however, will be completely responsible for their own, and their subcontractor's, work, and ensure that the requests of the Archeological Monitor are met in a timely and efficient manner.

The CONTRACTOR is also responsible for ensuring that the Archeological Monitor prepares and submits an Archeological Monitoring Report (AMR) to DHHL and the appropriate agencies, including but not limited to State Historic Preservation Division, the Office of Hawaiian Affairs, and the Maui - Lanai Islands Burial Council. The AMR will be prepared to the satisfaction of DHHL and the other approving agencies.

The cost for the Archeological Monitor to perform the required fieldwork and monitoring, as well as the cost to prepare, submit, and process the AMR, will be the responsibility of the CONTRACTOR and will be considered incidental to the contract cost and scope of work. This cost shall be in the contract bid amount. No separate payment shall be made.

SC-18 GEOTECHNICAL ENGINEER

The services of a geotechnical engineering firm will be retained by the CONTRACTOR. The Contractor shall notify the Project Manager whenever the geotechnical engineering

SPECIAL CONDITIONS

firm's presence occurs at the project sites. The geotechnical engineer shall be present to observe site grading and other work concerning excavation, placing and compacting soil materials, and to take field density tests. Also, the geotechnical engineer shall perform laboratory testing of all imported soils or on-site soils to determine its acceptability for its intended use as select material or general fill material. The geotechnical engineer shall compile the daily observations, test data, test results and recommendations into a weekly submittal to the Construction Manager. The geotechnical engineer shall ensure that the geotechnical work complies with the specifications and drawings.

Upon completion of the grading operation, the geotechnical engineer shall provide the information needed to complete the "Report after Grading" as required by the Revised Ordinances of Honolulu (ROH), Section 14-15.1(n) or as accepted by the Project Manager. As a minimum, six (6) copies of compaction data with 11"x17" location map, moisture content at the time of compaction, and certification letter (stamped and signed by a license engineer in the State of Hawaii) that the work was done in conformity to the specifications.

Soils and pavement testing includes that required for work within the Maui Department of Public Works jurisdictions at Lihi Pali Ave., as called for on the drawings and in accordance with the requirements of the Maui District Engineer.

Cost for this work shall be considered included in the contract bid amount. No separate payment shall be made.

SC-19 SAMPLING AND TESTING

The CONTRACTOR shall retain the services of a geotechnical engineering firm and/or certified testing laboratory to perform sampling and testing as called for by this contract. Testing for water quality shall be by a State Department of Health certified laboratory. Sampling and testing shall include materials testing and field testing as required. Sampling and testing shall be as required by the CONTRACT to include but not limited to the following:

- Concrete compressive strength and slump in laboratory and field tests per the Water System Standards
- 2. Microbiological tests for pipeline and tank disinfection

Cost for this work shall be considered included in the contract bid amount. No separate payment shall be made.

SC-20 FIRE PREVENTION PLAN

The site, and adjacent areas, can be dry and subject to fires. As such, the CONTRACTOR shall prepare a Comprehensive Fire Prevention Plan, post the regulations clearly at the site and enforce the plan.

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SPECIAL CONDITIONS

SC-21 FIELD OFFICE

A field office for exclusive use of DHHL personnel or their representatives is not required. CONTRACTOR may provide a field office at their own expense.

SC-22 WATER SYSTEM SPECIFICATIONS

The "WATER SYSTEM STANDARDS," State of Hawaii, dated 2002, and all subsequent amendments and additions, are by reference incorporated herein and made a part of these contract documents. The work embraced herein shall be performed by the CONTRACTOR in accordance with the "WATER SYSTEM STANDARDS," and the various sections of the Special Conditions. Requirements of the Department of Water Supply, County of Maui, shall apply unless otherwise indicated by the contract documents.

The term "Water System Standards" used in these contract documents refers to the "WATER SYSTEM STANDARDS" State of Hawaii, dated 2002, and all subsequent amendments and additions.

SC-23 COUNTY OF MAULINSPECTIONS

All work within any County maintained easements and roadways shall be inspected and approved by the applicable agencies of the County of Maui. The CONTRACTOR shall make arrangements directly with the appropriate agencies to arrange for inspection of work. All work and/or fees necessary to comply with this item shall be considered incidental to the various contract items. No separate payment shall be made.

SC-24 STATE GENERAL EXCISE TAX

This project is not exempt from the State of Hawaii General Excise Tax. The CONTRACTOR's prices shall include the General Excise Tax for all work.

SC-25 CONSTRUCTION PHASING

Contractor shall prepare and submit to the Project Manager, prior to start of field construction work, a construction phasing plan that outlines and describes the work scope and sequence in order to maintain public access to portions of the cemetery with minimal interruption and restriction to usage. Plan shall describe all planned phases of work to include estimated times and durations, and allow for public access to grave sites and headstones as reasonably able. Measures to maintain access may include and are not limited to: creating separate areas of work and sequencing and phasing work on specific

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SPECIAL CONDITIONS

areas in lieu of closing off the entire site, construction fencing and adequate protections to allow access to sites both uphill and downhill of the proposed asphalt driveways, etc.

Contractor is required to amend a new construction phasing plan, if there are delays or time extension to ensure the project is completed on time.

Notification to include lead times for notification to public and governmental service agencies shall be identified and scheduled.

The CONTRACTOR shall preform all excavation, earthwork, demolition and clearing or grubbing, or any other land disturbing activities within a 3 week continuous period to be identified by the CONTRACTOR and approved by the Project Manager. Limiting the timeframe of the land disturbing activities will assist with limiting the cost associated with the Archeological Monitor and the required fieldwork and reporting requirements.

Should land disturbing activities require additional time, the CONTRACTOR shall be responsible for any additional costs incurred for the Archeological Monitor, fieldwork and reporting for the AMR. This cost shall be considered part of the contract bid amount. No separate payment shall be made.

DHHL will not provide additional time to the CONTRACTOR or the CONTRACTOR's performance schedule should land disturbing activities exceed the time duration identified in this condition.

Information is available from the DHHL District Office as well as the Project Manager on the Kanakaloloa Cemetery, its history, layout, and operational conditions. Contractor shall coordinate the construction plans as well as the development of the construction phasing plan with the Project Manager.

The Contractor shall ensure that all materials, equipment, labor and incidentals are on-site as needed to ensure rapid and continuous work to minimize restrictions to access and usage of the cemetery, as well as to minimize or avoid water service disruptions to the DHHL water system and its service customers.

SC – 26 FINAL SETTLEMENT OF CONTRACT

The following shall be made additional conditions of compliance with DHHL Construction General Conditions, Section 7.33:

1. The contractor shall coordinate with all government agencies and utility companies on behalf of DHHL to obtain letter(s) from each respective government agency or utility company indicating that acceptance of the contract work for the project has been granted to DHHL. Copies of the letters shall be submitted to DHHL.

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STATE OF HAWAII

SPECIAL CONDITIONS

2. Signature, execution, and return of the "Record Drawing" Title tracings.

Payment for all work required to comply with the above items will not be paid for separately but shall be considered incidental to the various contract items.

SC-27 ADDITIONAL PAVEMENT FOR LIHI PALI AVENUE

Bid Additive item includes repaving Lihi Pali Avenue fronting the project site, consisting of a grind and overlay of the existing pavement of a minimum of 2 inches.

Contractor shall provide lump sum bid amount to complete the work as shown on construction plans. However, the contractor shall also include unit cost price per square foot of repavement of Lihi Pali Avenue. The construction work and materials may be negotiated if there is a change in scope of work. No work shall be performed by the contractor without prior written authorization from DHHL.

SC-28 SHOP DRAWINGS AND OTHER SUBMITTALS

The Contractor is required to submit a complete list of shop drawings and other submittals to the construction manager, for DHHL and the consultant team's review, by one week after the notice to proceed (NTP) is given, or at the pre-construction meeting, whichever comes first.

The Contractor is then required to submit all submittals and shop drawings that are listed within ONE MONTH after the notice to proceed is given. The Contractor will not be given schedule or cost considerations for delay of materials if shop drawings or submittals are not submitted by this time.

NOTE: NO PROGRESS PAYMENT WILL BE PAID UNTIL ALL REQUIRED SUBMITTALS ARE SUBMITTED IN THE REQUIRED TIME.

SC-29 SOLAR ELECTRIC LIGHTING SYSTEM

The Contractor shall submit plans for Electrical permit review prior to construction. See attachments for installations requirements.

SC-30 CONTRACTOR'S DAILY REPORT

The Contractor shall provide a daily report electronically, for DHHL review. The report should show:

- 1) Date
- 2) Weather
- 3) Activity at the site for the Contractor
 - a. Labor who and what class, ie, carpenter, supervisor, labor
 - b. Equipment
 - c. Material Delivered



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- d. Work Performed
- 4) Activity at the site for the Subcontractor
 - a. Labor who and what class, ie, carpenter, supervisor, labor
 - b. Equipment
 - c. Material Delivered
 - d. Work Performed
- 5) Who visited Construction Manager, Inspector, etc.
- 6) Problems or Questions
- 7) Suggested resolution if any
- 8) Safety report status
- 9) Quality Control report status

SC-31 EXTRA AND FORCE ACCOUNT WORK

109.04 Extra and Force Account Work (Hawaii Standard Specifications for Road and Bridges Construction 2005, Also see Addendum)

Force Account Provisions and Compensation. The contract documents may provide that certain work be compensated by force account method, or the Contractor may be directed to provide changes compensable under the price adjustment provision of paragraph (5) of Subsection 104.09 – Methods of Price Adjustment. When performing force account work, the Contractor and its subcontractor(s) shall comply with the provisions of this section. Compensation by force account will not alter any rights, duties, and obligations under the contract. The Contractor shall follow these procedures:

- (A) The Contractor's Duties; Engineer's Authority. The Contractor has the duty to perform the work payable under this provision efficiently and economically. When the Engineer determines the Contractor is working inefficiently or uneconomically, the Engineer may direct the Contractor to stop, modify its means and methods, or the Engineer may specifically direct means and methods of doing the force account work. The Engineer will not pay for work that is unacceptable or for the cost of correcting work that fails to conform to contract requirements.
- **(B) Records.** The Contractor shall maintain accurate daily records of all allowable costs. The records, as well as all work and costs are subject to review, audit, and approval by the Engineer.

The Contractor shall use the State's Force Account Form and obtain the Inspector's signature thereon each day the Contractor performs force account work. As the condition of payment of the force account work, the Contractor shall submit any original and two copies of the force account records, together with invoices, receipts and other backup data to the Engineer.

(C) Allowable Costs. Allowable cost include labor, equipment and machinery, trucks, insurance, taxes and bonds, overhead, profit, and reimbursable expenses all as



SPECIAL CONDITIONS

described herein. Other costs or items not covered under this section are subject to the Engineer's written approval.

(D) Labor. Allowable cost include Contractor and subcontractor(s) costs for hourly worker wages, and fringe benefits required by employment contracts, plus overhead and profit markup. The Contractor shall provide the information on the force account form regarding each worker and supervisor.

Overtime compensation, per diem costs and other reimbursable costs are not allowed unless approved in writing by the Engineer prior to incurring the expense. Overhead and profit markup will not be allowed for such cost. Cost and time for employees' to travel to and from the project site are not allowed unless approved in writing by the Engineer prior to performing the work.

(E) Materials. Contractor and subcontractor(s) are allowed the actual cost of materials (excluding financing cost) delivered and incorporated into the work plus overhead and markup. The Contractor shall provide descriptions and quantities of materials, prices and extensions, and costs to transport materials if not included in the prices for the materials.

The Contractor shall provide legible receipts and invoices for all materials used and transportation charges. The Contractor shall promptly inform the Engineer of any early payment discounts that are available, as well as scheduled or anticipated price increases.

If materials used are not specifically purchased for the force account work but are taken from the Contractor's stock, then in lieu of the invoices, the Contractor shall certify that the material were taken from the stock and that the amount claimed represents the actual cost to the Contractor.

(F) Equipment and Machinery. For equipment and machinery necessary and actually used (other than small tools defined under Subsection 109.04(I) – Small Tools) that are owned or leased or rented, the Contractor is allowed costs for use of equipment or machinery at a per hour rate.

Hourly rates shall include costs for fuel, oil lubricants, supplies, necessary attachments, repairs, maintenance, tire wear, depreciation, storage, and other incidentals. The allowable hourly rates shall be the Contractor's actual customary chargers e.g., shop rates or yard rates, or rental cost as verified by Contractor's records or invoices, provided that the maximum rate shall not exceed the current rates published in the Blue Book, effective at the time of equipment use. Blue Book hourly rates are calculated based upon the following formula:

Hourly Rates = [(Blue Book Monthly Rate \div 176) x (Regional Adjustment Factor) x (Rate Adjustment Table Factor) + Hourly Operation Cost



SPECIAL CONDITIONS

Equipment and machinery costs are not subject to any additional overhead and profit markup.

Equipment and machinery shall be in good condition and suitable for the purpose for which the equipment and machinery are to be used.

For equipment and machinery that is not listed in the Blue Book the Contractor shall obtain he Engineer's written approval of the monthly and hourly rates prior to using the equipment or machinery. If there is no agreement on the rates, the Engineer will set the rate. Engineer may, prior the use of rental equipment, approve in writing rates that are higher than the published rates, if justified by special circumstance.

(G) Equipment Charges. The rental period for equipment and machinery brought to the work site specifically for the force account work, begins when the equipment or machinery reaches the work site, and continues each day the equipment or machinery is at the site and terminates at the end of the day when the equipment or machinery is no longer needed for the forced account work, or when the equipment or machinery leaves the project site, whichever comes first.

Rental times for all other equipment and machinery used for force account are paid for the time actually used. Prior to the performance of work, the Engineer must approve any hours or operation in excess of 8 hours in any one day. No additional premium beyond the normal rates used will be paid for equipment or machinery over 8 hours per day or 40 hours per week.

The total of all force account rental charges minus the operating cost accrued over the duration of the contract for a specific item of equipment or machinery (same make, model or kind of equipment or machinery doing the same kind of force account work) shall not exceed the replacement cost of that equipment. The Contractor shall provide the cost of replacement to the Engineer prior to using the equipment or machinery. If the Engineer does not agree with the replacement cost provided by the Contractor or if the Contractor does not provide the replacement cost, the Engineer shall set the replacement cost by the Engineer in t accordance with Subsection 105.18 – Disputes and Claims. The Engineer will pay only the hourly operating cost should the replacement cost be reached. This provision shall not apply to the accrued rental charges by barricades and other traffic control devises, or while undergoing maintenance.

Rental times are not allowed or credited for any time during which equipment or machinery is inoperative due to its breakdown.

State of Hawai'i DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

Princess Ruth Ke'elikolani Building 830 Punchbowl Street Honolulu, Hawai'i 96813

February 15, 2016 WAGE RATE SCHEDULE BULLETIN NO. 487

This schedule of wage rates contained herein is recognized by the Director of Labor and Industrial Relations to be prevailing on public construction work for the purposes of Chapter 104, Hawai'i Revised Statutes. The schedule of wage rates determines the applicable wage determination for each classification and does not impose any staffing requirements for any classification. The schedule of wage rates is applicable only to those laborers and mechanics employed at the site of work.

As required by law, future wage rates for laborers and mechanics are incorporated into this bulletin based on available information and are subject to change. Whenever the Director determines that the prevailing wage has increased as shown in the wage rate schedule, the contractor must increase the wages accordingly during the performance of the contract. For addenda or additional wage rate schedules, please consult the Internet at http://labor.hawaii.gov/rs.

The Apprentice Schedule is available on the Internet or upon request from the Research and Statistics Office. Pursuant to Section 12-22-6 (1), Hawai'i Administrative Rules, the Apprentice Schedule is applicable only to apprentices who are parties to apprenticeship agreements registered with or recognized by the Department of Labor and Industrial Relations.

Questions on the schedule should be referred to the Research and Statistics Office at (808) 586-9005.

The next regular schedule will be issued on or about September 15, 2016.

LINDA CHU TAKAYAMA Director



STATE OF HAWAI'I DAVID Y. IGE, Governor

DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS LINDA CHU TAKAYAMA, Director

RESEARCH AND STATISTICS OFFICE PHYLLIS DAYAO, Research & Statistics Officer

OPERATIONS MANAGEMENT INFORMATION STAFF Janet Kaya, Supervisor

In cooperation with: WAGE STANDARDS DIVISION PAMELA MARTIN, Administrator

| | Current | | | | 2016 | | | 2017 | | | 2018 | | Ī |
|--|------------|---------|---------|------------|---------|---------|------------|---------|---------|------------|---------|---------|---------|
| | Prevailing | Basic | Fringe | Remarks |
| Classification | Wage | Hourly | Hourly | See |
| | Total | Rate | Rate | Pg 6-8 |
| ASPHALT PAVING GROUP: | 9/21/15 | | | | | | | | | | | | |
| Asphalt Concrete Material Transfer | \$69.34 | \$39.42 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Asphalt Raker | \$68.38 | \$38.46 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Asphalt Spreader Operator | \$69.86 | \$39.94 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Laborer, Hand Roller | \$65.61 | \$35.69 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Roller Operator (5 tons and under) | \$68.11 | \$38.19 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Roller Operator (over 5 tons) | \$69.54 | \$39.62 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Screed Person | \$69.34 | \$39.42 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| EQUIPMENT OPERATOR: | | | | | | | | | | | | | |
| Combination Loader/Backhoe (over 3/4 cu. yd.) | \$68.38 | \$38.46 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Combination Loader/Backhoe (up to 3/4 cu. yd.) | \$67.40 | \$37.48 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Concrete saws and/or Grinder (self-propelled unit on | | | | | | | | | | | | | |
| streets, highways, airports and canals) | \$69.34 | \$39.42 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Grader, Soil Stabilizer, Cold Planer | \$70.17 | \$40.25 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Loader (2-1/2 cu. yds. and under) | \$69.34 | \$39.42 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Loader (over 2-1/2 cu. yds. to and including 5 cu. yds.) TRUCK DRIVER: | \$69.66 | \$39.74 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Assistant to Engineer | \$68.11 | \$38.19 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Oil Tanker (double), Hot Liquid Asphalt Tanker | \$69.66 | \$39.74 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Semi-Trailer, Semi-Dump, Asphalt Distributor | \$69.34 | \$39.42 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Slip-in or Pup | \$69.66 | \$39.74 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Single or Rock Cans Tandem Dump Truck | | | | | | | | | | | | | |
| (8 cu. yds. & under, water level) | \$68.38 | \$38.46 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Single or Rock Cans Tandem Dump Truck | | | | | | | | | | | | | |
| (over 8 cu. yds., water level) | \$68.69 | \$38.77 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Tractor Trailer (hauling equipment) | \$69.77 | \$39.85 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| Utility, Flatbed | \$68.11 | \$38.19 | \$29.92 | - | - | - | - | - | - | - | - | - | 13 |
| BOILERMAKER | 2/16/15 | | | | | | | | | | | | |
| | \$63.63 | \$34.18 | \$29.45 | - | - | - | - | - | - | - | - | - | 13 |
| CARPENTER: | 9/21/15 | | | 8/29/16 | | | 9/4/17 | | | 9/3/18 | | | |
| Carpenter; Patent Scaffold Erector (Over 14 feet); | | | | | | | | | | | | | |
| Piledriver; Pneumatic Nailer | \$64.86 | \$43.90 | \$20.96 | \$66.86 | \$45.65 | \$21.21 | \$68.91 | \$47.45 | \$21.46 | \$71.16 | \$49.45 | \$21.71 | 1,12,13 |
| Millwright | \$65.11 | \$44.15 | \$20.96 | \$67.11 | \$45.90 | \$21.21 | \$69.16 | \$47.70 | \$21.46 | \$71.41 | \$49.70 | \$21.71 | 1,12,13 |
| Power Saw Operator (2 h.p. & above) | \$65.01 | \$44.05 | \$20.96 | \$67.01 | \$45.80 | \$21.21 | \$69.06 | \$47.60 | \$21.46 | \$71.31 | \$49.60 | \$21.71 | 1,12,13 |
| CEMENT FINISHER: | 9/21/15 | | | 8/29/16 | | | 9/4/17 | | | 9/3/18 | | | |
| Cement Finisher; Curb Setter; Precast Panel Setter; | | | | | | | | | | | | | |
| Manhole Builder | \$63.73 | \$37.90 | \$25.83 | \$65.34 | \$38.50 | \$26.84 | \$66.98 | \$39.10 | \$27.88 | \$68.53 | \$39.80 | \$28.73 | 2,12,13 |
| Trowel Machine Operator | \$63.88 | \$38.05 | \$25.83 | \$65.49 | \$38.65 | \$26.84 | \$67.13 | \$39.25 | \$27.88 | \$68.68 | \$39.95 | \$28.73 | 2,12,13 |
| CHAIN-LINK FENCE ERECTOR | 10/5/15 | | | 10/3/16 | | | 10/2/17 | | | 10/1/18 | | | |
| | \$32.40 | \$20.10 | \$12.30 | \$34.45 | \$21.30 | \$13.15 | \$36.55 | \$22.60 | \$13.95 | \$38.75 | \$24.00 | \$14.75 | 10,13 |
| CHLORINATOR | 9/21/15 | | | | | | | | | | | | |
| | \$23.00 | \$23.00 | \$0.00 | - | - | - | - | - | - | | - | - | |

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| | | Current | | | 2016 | | | 2017 | | | 2018 | | |
|--|--------------|---------------------|----------|------------|---------------------|----------------|------------|---------|---------|----------------------|---------------|---------|---------|
| | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Remarks |
| Classification | Wage | Hourly | Hourly | Wage | Hourly | Hourly | Wage | Hourly | Hourly | Wage | Hourly | Hourly | See |
| | Total | Rate | Rate | Total | Rate | Rate | Total | Rate | Rate | Total | Rate | Rate | Pg 6-8 |
| DIVER: | 9/21/15 | | | | | | | | | | | | |
| Diver (Aqua Lung) (Scuba) - Up to a depth of 30 feet | \$82.49 | \$53.13 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Diver (Aqua Lung) (Scuba) - Over a depth of 30 feet | \$91.86 | \$62.50 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Stand-By Diver (Aqua Lung) (Scuba) | \$73.11 | \$43.75 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Diver (Other than Aqua Lung) | \$91.86 | \$62.50 | \$29.36 | - | - | - | - | - | - | - | - | - | 3,13 |
| Stand-By Diver (Other than Aqua Lung) | \$73.11 | \$43.75 | \$29.36 | - | - | - | - | - | - | - | - | - | 3,13 |
| Tender (Other than Aqua Lung) | \$70.08 | \$40.72 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| DRAPERY INSTALLER | 9/21/15 | | | | | | | | | | | | |
| DIVIL ERT MOTALLER | \$19.68 | \$16.82 | \$2.86 | - | - | - | - | - | - | - | - | - | |
| DRYWALL INSTALLER | 9/21/15 | | | 8/29/16 | | | 9/4/17 | | | 9/3/18 | | | |
| DRTWALL INSTALLER | \$65.11 | \$44.15 | \$20.96 | \$67.11 | \$45.90 | \$21.21 | \$69.16 | \$47.70 | \$21.46 | \$71.41 | \$49.70 | \$21.71 | 12,13 |
| | φ65.11 | φ 44 .13 | \$20.90 | φ07.11 | φ 4 5.90 | Φ ∠1.∠1 | ф09.10 | Φ47.70 | φ21.40 | φ/ 1. 4 1 | Ф49.70 | φ21./1 | 12,13 |
| * ELECTRICIAN | 8/23/15 | | | 2/21/16 | | | | | | | | | |
| Cable Splicer (inside/outside) | \$75.89 | \$47.36 | \$28.53 | \$76.76 | \$48.02 | \$28.74 | - | - | - | - | - | - | 4,13 |
| Ground Worker (outside) | \$56.22 | \$32.29 | \$23.93 | \$56.81 | \$32.74 | \$24.07 | - | - | - | - | - | - | 4,13 |
| Heavy Equipment Operator (outside) | \$64.66 | \$38.75 | \$25.91 | \$65.36 | \$39.29 | \$26.07 | - | - | - | - | - | - | 4,13 |
| Line Installer (outside); Wire Installer (inside) | \$70.27 | \$43.05 | \$27.22 | \$71.06 | \$43.65 | \$27.41 | - | - | - | - | - | - | 4,13 |
| Technician (inside/outside) | \$71.95 | \$44.34 | \$27.61 | \$72.78 | \$44.96 | \$27.82 | - | - | - | - | - | - | 4,13 |
| Telecommunication Worker | 9/21/15 | | | 8/28/16 | | | 9/3/17 | | | | | | |
| Licensed Technician | \$39.49 | \$27.68 | \$11.81 | \$40.78 | \$28.79 | \$11.99 | \$42.13 | \$29.94 | \$12.19 | - | - | - | 13 |
| Technician I / Splicer | \$37.87 | \$26.30 | \$11.57 | \$39.09 | \$27.35 | \$11.74 | \$40.38 | \$28.44 | \$11.94 | - | - | - | 13 |
| * ELEVATOR CONSTRUCTOR MECHANIC | 2/15/16 | | | | | | | | | | | | |
| | \$84.275 | \$54.29 | \$29.985 | - | - | - | - | - | - | - | - | - | 13 |
| EQUIPMENT OPERATOR: | 9/21/15 | | | | | | | | | | | | |
| Group 1 | \$67.80 | \$38.44 | \$29.36 | _ | - | - | _ | _ | _ | _ | _ | _ | 5,13 |
| Group 2 | \$67.91 | \$38.55 | \$29.36 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 5,13 |
| Group 3 | \$68.08 | \$38.72 | \$29.36 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 5,13 |
| Group 4 | \$68.35 | \$38.99 | \$29.36 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 5,13 |
| Group 5 | \$68.66 | \$39.30 | \$29.36 | _ | _ | _ | - | _ | _ | _ | _ | _ | 5,13 |
| Group 6 | \$69.31 | \$39.95 | \$29.36 | _ | _ | _ | - | _ | _ | _ | _ | _ | 5,13 |
| Group 7 | \$69.63 | \$40.27 | \$29.36 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 5,13 |
| Group 8 | \$69.74 | \$40.38 | \$29.36 | _ | - | _ | - | _ | _ | _ | _ | _ | 5,13 |
| Group 9 | \$69.85 | \$40.49 | \$29.36 | _ | - | _ | - | _ | _ | _ | _ | _ | 5,13 |
| Group 9A | \$70.08 | \$40.72 | \$29.36 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 5,13 |
| Group 10 | \$70.14 | \$40.78 | \$29.36 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 5,13 |
| Group 10A | \$70.29 | \$40.93 | \$29.36 | _ | _ | _ | _ | _ | _ | - | _ | _ | 5,13 |
| Group 11 | \$70.44 | \$41.08 | \$29.36 | _ | - | _ | - | _ | _ | _ | _ | _ | 5,13 |
| Group 12 | \$70.80 | \$41.44 | \$29.36 | _ | - | _ | _ | _ | _ | - | - | _ | 5,13 |
| Group 12A | \$71.16 | \$41.80 | \$29.36 | - | - | - | - | - | - | - | - | - | 5,13 |
| FENCE EDECTOR (CHAIN LINE TYPE) | - | | | | | | | | | | | | ļ |
| FENCE ERECTOR (CHAIN-LINK TYPE) See Chain-Link Fence Erector | | _ | - | | _ | _ | | _ | _ | | _ | _ | |
| | | | | _ | _ | | | | _ | | | | |
| FLOOR LAYER (CARPET, LINOLEUM & SOFT TILE) | 3/1/15 | 004.45 | 005.75 | | | | | | | | | | 40 |
| | \$56.90 | \$31.15 | \$25.75 | 1 - 1 | - | I - I | II - | - | l - | II - | - | - | 13 |

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| | | Current | | | 2016 | | | 2017 | | | 2018 | | |
|---|------------|---------|---------|------------|---------|---------|------------|---------|---------|------------|---------|---------|----------|
| | Prevailing | Basic | Fringe | Remarks |
| Classification | Wage | Hourly | Hourly | See |
| | Total | Rate | Rate | Pg 6-8 |
| GLAZIER | 9/21/15 | | | | | | | | | | | | |
| - | \$63.15 | \$34.78 | \$28.37 | - | - | - | - | - | - | - | - | - | 6,13 |
| HELICOPTER WORK: | 9/21/15 | | | | | | | | | | | | |
| Airborne Hoist Operator | \$71.66 | \$42.30 | \$29.36 | - | - | - | - | - | - | - | | - | 13 |
| Co-Pilot | \$71.80 | \$42.44 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Pilot | \$71.97 | \$42.61 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| INSULATOR | 9/21/15 | | | | | | 9/3/17 | | | 9/2/18 | | | 1 |
| | \$63.15 | \$39.65 | \$23.50 | - | - | - | \$64.40 | \$40.50 | \$23.90 | \$65.10 | \$41.00 | \$24.10 | 7,13 |
| IRONWORKER: | 9/21/15 | | | 9/1/16 | | | | | | | | | |
| Reinforcing, Structural | \$66.66 | \$36.75 | \$29.91 | \$67.66 | \$37.75 | \$29.91 | - | - | - | - | - | - | 8,12,13 |
| LABORER: | 8/31/15 | | | 8/29/16 | | | 9/4/17 | | | 9/3/18 | | | |
| Driller | \$52.86 | \$35.35 | \$17.51 | \$54.76 | \$36.35 | \$18.41 | \$56.66 | \$37.40 | \$19.26 | \$58.66 | \$38.40 | \$20.26 | 1,13 |
| Gunite Operator or Shotcrete Operator | \$52.36 | \$34.85 | \$17.51 | \$54.26 | \$35.85 | \$18.41 | \$56.16 | \$36.90 | \$19.26 | \$58.16 | \$37.90 | \$20.26 | 1,13 |
| High Scaler (Working Suspended) | \$52.36 | \$34.85 | \$17.51 | \$54.26 | \$35.85 | \$18.41 | \$56.16 | \$36.90 | \$19.26 | \$58.16 | \$37.90 | \$20.26 | 13 |
| Laborer I | \$51.86 | \$34.35 | \$17.51 | \$53.76 | \$35.35 | \$18.41 | \$55.66 | \$36.40 | \$19.26 | \$57.66 | \$37.40 | \$20.26 | 1,13 |
| Laborer II | \$49.26 | \$31.75 | \$17.51 | \$51.16 | \$32.75 | \$18.41 | \$53.06 | \$33.80 | \$19.26 | \$55.06 | \$34.80 | \$20.26 | 1,13 |
| Light/Final Clean-up (Janitorial) Laborer | \$39.09 | \$25.75 | \$13.34 | \$41.04 | \$26.75 | \$14.29 | \$42.94 | \$27.80 | \$15.14 | \$44.92 | \$28.80 | \$16.12 | 1,13 |
| Mason Tender/Hod Carrier | \$52.36 | \$34.85 | \$17.51 | \$54.26 | \$35.85 | \$18.41 | \$56.16 | \$36.90 | \$19.26 | \$58.16 | \$37.90 | \$20.26 | 1,13 |
| Powder Blaster | \$52.86 | \$35.35 | \$17.51 | \$54.76 | \$36.35 | \$18.41 | \$56.66 | \$37.40 | \$19.26 | \$58.66 | \$38.40 | \$20.26 | 1,13 |
| Window Washer (Outside) (On bosun's chair, | | | | | | | | | | | | | |
| cable-suspended scaffold or work platform) | \$51.36 | \$33.85 | \$17.51 | \$53.26 | \$34.85 | \$18.41 | \$55.16 | \$35.90 | \$19.26 | \$57.16 | \$36.90 | \$20.26 | 13 |
| * LANDSCAPER: | 2/15/16 | | | 8/29/16 | | | 9/4/17 | | | 9/3/18 | | | 1 |
| Landscape & Irrigation Laborer A | \$34.37 | \$23.70 | \$10.67 | \$35.52 | \$24.25 | \$11.27 | \$36.82 | \$24.85 | \$11.97 | \$38.18 | 25.50 | \$12.68 | |
| Landscape & Irrigation Laborer B | \$34.97 | \$24.30 | \$10.67 | \$36.22 | \$24.95 | \$11.27 | \$37.62 | \$25.65 | \$11.97 | \$39.08 | \$26.40 | \$12.68 | |
| Landscape & Irrigation Maintenance Laborer | \$30.62 | \$19.95 | \$10.67 | \$31.52 | \$20.25 | \$11.27 | \$32.62 | \$20.65 | \$11.97 | \$33.78 | \$21.10 | \$12.68 | |
| LATHER | 9/21/15 | | | 8/29/16 | | | 9/4/17 | | | 9/3/18 | | | |
| | \$65.11 | \$44.15 | \$20.96 | \$67.11 | \$45.90 | \$21.21 | \$69.16 | \$47.70 | \$21.46 | \$71.41 | \$49.70 | \$21.71 | 12,13 |
| MASON; Bricklayer; | 9/16/13 | | | | | | | | | | | | |
| Cement Blocklayer; Stone Mason; Precast Sill Setter | \$60.32 | \$36.85 | \$23.47 | - | - | - | - | - | - | _ | - | - | 2,13 |
| Pointer-Caulker-Weatherproofer | \$60.57 | \$37.10 | \$23.47 | - | - | - | - | - | - | - | - | - | 2,13 |
| * PAINTER: | 2/15/16 | | | | | | | | | | | | |
| Painter; Spray Painter; Sandblaster or Waterblaster | \$62.77 | \$34.85 | \$27.92 | - | - | - | - | - | - | - | - | - | |
| PLASTERER: | 9/21/15 | | | 8/29/16 | | | 9/4/17 | | | 9/3/18 | | | |
| | \$64.87 | \$39.04 | \$25.83 | \$66.63 | \$39.79 | \$26.84 | \$68.42 | \$40.54 | \$27.88 | \$70.07 | \$41.34 | \$28.73 | 2,12,13 |
| PLUMBER: (Note: 2 increases per year starting in 2016) | 1/3/16 | | | 7/3/16 | | | 1/1/17 | | | 1/7/18 | | | — |
| Plumber; Pipefitter; Refrigeration Fitter; Heating & | | | | .,5,10 | | | ., ., | | | .,.,,, | | | |
| Air Conditioning Fitter; Sprinkler Fitter; Steamfitter | \$65.08 | \$40.35 | \$24.73 | \$65.83 | \$40.85 | \$24.98 | \$66.60 | \$41.35 | \$25.25 | \$68.12 | \$42.35 | \$25.77 | 9,13 |
| | | | | | | | 7/2/17 | | | 7/1/18 | | | |
| Plumber; Pipefitter; Refrigeration Fitter; Heating & Air Conditioning Fitter; Sprinkler Fitter; Steamfitter | - | - | _ | - | - | - | \$67.35 | \$41.85 | \$25.50 | \$68.87 | \$42.85 | \$26.02 | 9,13 |

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| | | Current | | | 2016 | | | 2017 | | | 2018 | |] |
|--|------------|----------------|---------|------------|---------|---------|------------|---------|---------|------------|---------|---------|---------|
| | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Remarks |
| Classification | Wage | Hourly | Hourly | Wage | Hourly | Hourly | Wage | Hourly | Hourly | Wage | Hourly | Hourly | See |
| | Total | Rate | Rate | Total | Rate | Rate | Total | Rate | Rate | Total | Rate | Rate | Pg 6-8 |
| ROOFER: | 9/21/15 | | | 9/4/16 | | | | | | | | | |
| Shingle, Tile, Built-up Roofing | \$56.38 | \$38.85 | \$17.53 | \$57.38 | \$39.85 | \$17.53 | - | - | - | - | - | - | 12 |
| Coal Tar Pitch | \$95.23 | \$77.70 | \$17.53 | \$97.23 | \$79.70 | \$17.53 | - | - | - | - | - | - | 12 |
| SANDBLASTER OR WATERBLASTER: | 1 | | | | | | | | | | | | |
| Use wages of craft to which sand or water blasting is | 1 | | | | | | | | | | | | |
| incidental. | | | | | | | | | | | | | |
| SHEETMETAL WORKER (Note: 2 increases per year) | 9/21/15 | | | 2/28/16 | | | 2/26/17 | | | 3/4/18 | | | |
| | \$63.54 | \$39.40 | \$24.14 | \$64.68 | \$39.99 | \$24.69 | \$67.20 | \$41.29 | \$25.91 | \$69.23 | \$42.20 | \$27.03 | 13 |
| | | | | 8/28/16 | | | 9/3/17 | | | 9/2/18 | | | |
| | | | | \$65.91 | \$40.59 | \$25.32 | \$68.33 | \$41.80 | \$26.53 | \$69.99 | \$42.55 | \$27.44 | 13 |
| TAPER | 1/1/16 | | | | | | 1/1/17 | | | | | | |
| | \$63.80 | \$41.50 | \$22.30 | - | - | - | \$65.90 | \$42.00 | \$23.90 | - | - | - | |
| TERMITE TREATER | 9/21/15 | | | | | | | | | | | | |
| | \$18.99 | \$14.74 | \$4.25 | - | - | - | - | - | - | - | - | 1 | |
| TERRAZZO: | 9/16/13 | | | | | | | | | | | | |
| Terrazzo Setter | \$60.57 | \$37.10 | \$23.47 | - | - | - | - | - | - | - | - | - | 2,13 |
| Terrazzo Base Grinder | \$58.76 | \$35.29 | \$23.47 | - | - | - | - | - | - | - | - | - | 2,13 |
| Certified Terrazzo Floor Grinder and Tender | \$57.21 | \$33.74 | \$23.47 | - | - | - | - | - | - | - | - | - | 2,13 |
| Terrazzo Floor Grinder | \$55.71 | \$32.24 | \$23.47 | - | - | - | - | - | - | - | - | - | 2,13 |
| TILE SETTER: | 9/16/13 | | | | | | | | | | | | |
| Ceramic Hard Tile; Marble Setter | \$60.57 | \$37.10 | \$23.47 | - | - | - | - | - | - | - | - | - | 2,13 |
| Certified Ceramic Tile & Marble Helper | \$57.21 | \$33.74 | \$23.47 | - | - | - | - | - | - | - | - | - | 2,13 |
| TRUCK DRIVER: | 9/21/15 | | | | | | | | | | | | |
| Concrete Mixer | \$36.12 | \$32.50 | \$3.62 | - | | - | - | - | - | - | - | | |
| Concrete Mixer/Booster | \$45.76 | \$31.93 | \$13.83 | - | - | - | - | - | - | - | - | - | |
| Dump Truck, 8 cu. yds. & under (water level); | | | | | | | | | | | | | |
| Water Truck (up to & including 2,000 gallons) | \$68.35 | \$38.99 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Flatbed, Utility, etc. | \$68.08 | \$38.72 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| End Dump, Unlicensed (Euclid, Mack, Caterpillar, or | mco 74 | # 40.00 | #00.00 | | | | | | | | | | 40 |
| similar); Tractor Trailer (hauling equipment) | \$69.74 | \$40.38 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Semi-Trailer, Rock Cans, or Semi-Dump | \$69.31 | \$39.95 | \$29.36 | - | - | - | _ | - | - | - | - | - | 13 |
| Slip-in or Pup Tandem Dump Truck, over 8 cu. yds. (water level); | \$69.63 | \$40.27 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Water Truck (over 2,000 gallons) | \$68.66 | \$39.30 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| | | | | | | | | | | | | | |

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| | | Current | | | 2016 | | | 2017 | | | 2018 | | 1 |
|---|------------|----------|---------|------------|---------|---------|------------|---------|---------|------------|---------|---------|---------|
| | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Prevailing | Basic | Fringe | Remarks |
| Classification | Wage | Hourly | Hourly | Wage | Hourly | Hourly | Wage | Hourly | Hourly | Wage | Hourly | Hourly | See |
| | Total | Rate | Rate | Total | Rate | Rate | Total | Rate | Rate | Total | Rate | Rate | Pg 6-8 |
| UNDERGROUND LABORER: | 8/31/15 | | | 8/29/16 | | | 9/4/17 | | | 9/3/18 | | | |
| Worker in a raise, shaft, or tunnel. | 0,01,10 | | | 0/20/10 | | | 0/-1/11 | | | 6,6,16 | | | |
| Group 1 | \$52.46 | \$34.95 | \$17.51 | \$54.36 | \$35.95 | \$18.41 | \$56.26 | \$37.00 | \$19.26 | \$58.26 | \$38.00 | \$20.26 | 13 |
| Group 2 | \$53.96 | \$36.45 | \$17.51 | \$55.86 | \$37.45 | \$18.41 | \$57.76 | \$38.50 | \$19.26 | \$59.76 | \$39.50 | \$20.26 | 13 |
| Group 3 | \$54.46 | \$36.95 | \$17.51 | \$56.36 | \$37.95 | \$18.41 | \$58.26 | \$39.00 | \$19.26 | \$60.26 | \$40.00 | \$20.26 | 13 |
| Group 4 | \$55.46 | \$37.95 | \$17.51 | \$57.36 | \$38.95 | \$18.41 | \$59.26 | \$40.00 | \$19.26 | \$61.26 | \$41.00 | \$20.26 | 13 |
| Group 5 | \$55.71 | \$38.20 | \$17.51 | \$57.61 | \$39.20 | \$18.41 | \$59.51 | \$40.25 | \$19.26 | \$61.51 | \$41.25 | \$20.26 | 13 |
| Group 6 | \$55.81 | \$38.30 | \$17.51 | \$57.71 | \$39.30 | \$18.41 | \$59.61 | \$40.35 | \$19.26 | \$61.61 | \$41.35 | \$20.26 | 13 |
| Group 7 | \$56.06 | \$38.55 | \$17.51 | \$57.96 | \$39.55 | \$18.41 | \$59.86 | \$40.60 | \$19.26 | \$61.86 | \$41.60 | \$20.26 | 13 |
| Group 8 | \$56.51 | \$39.00 | \$17.51 | \$58.41 | \$40.00 | \$18.41 | \$60.31 | \$41.05 | \$19.26 | \$62.31 | \$42.05 | \$20.26 | 13 |
| | | | · | · | · | | · | · | · | | · | | |
| WATER FRONT CONSTRUCTION (DREDGING): | 9/21/15 | | | ļ | | | | | | | | | |
| CLAMSHELL OR DIPPER DREDGES: | | . | | | | | | | | | | | |
| Clamshell or Dipper Operator | \$70.80 | \$41.44 | \$29.36 | - | - | - | - | - | - | - | - | - | 11,13 |
| Mechanic; Welder; Watch Engineer | \$70.14 | \$40.78 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Deckmate; Bargemate | \$69.74 | \$40.38 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Fire Person; Oiler; Deckhand; Barge Worker | \$68.08 | \$38.72 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| HYDRAULIC SUCTION DREDGES: | | | | | | | | | | | | | |
| Lever Operator | \$70.44 | \$41.08 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Mechanic; Welder | \$70.14 | \$40.78 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Watch Engineer (steam or electric) | \$70.29 | \$40.93 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Dozer Operator | \$70.08 | \$40.72 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Deckmate | \$69.74 | \$40.38 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Winch Operator (stern winch on dredge) | \$69.63 | \$40.27 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Fire Person; Oiler; Deckhand (can operate anchor | | | | | | | | | | | | | |
| scow under direction of deckmate); Levee Operator | \$68.08 | \$38.72 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| DERRICKS: | | | | | | | | | | | | | |
| Operator: Derrick, Piledriver, Crane | \$70.80 | \$41.44 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Deckmate; Saurman Type Dragline (up to & including 5 yds.) | \$69.74 | \$40.38 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Saurman Type Dragline (over 5 cu. yds.) | \$70.14 | \$40.78 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Fire Person; Oiler; Deckhand | \$68.08 | \$38.72 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| BOAT OPERATORS: | | | | | | | | | | | | | |
| Master Boat Operator | \$70.44 | \$41.08 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Boat Operator | \$70.29 | \$40.93 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| Boat Deckhand | \$68.08 | \$38.72 | \$29.36 | - | - | - | - | - | - | - | - | - | 13 |
| WATER WELL DRILLER: | 9/21/15 | | | | | | | | | | | | |
| Water Well Driller | \$38.47 | \$31.00 | \$7.47 | _ | _ | - | _ | _ | - | <u> </u> | _ | _ | |
| Water Well Driller Helper | \$24.37 | \$18.00 | \$6.37 | - | - | - | - | - | - | - | - | - | |
| WELDER: | | | | | | | | | | | | | |
| | | | | | | | | | | - | | | ļ |
| Use wages of craft to which welding is incidental, except for Chain-Link Fence Erector. See remark. | | | | | | | | | | | | | 10 |
| | | | | | | | | | | | | | |

Comments: Overtime must be paid at one and one-half times the basic hourly rate plus the hourly cost of required fringe benefits.

* Indicates a wage, fringe benefit, remark, or title change from the previous bulletin.

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REMARKS

- 1. Carpenter, Laborer (excluding High Scaler, Window Washer): \$.50 per hour shall be added to the regular straight-time rate for height pay for each hour while working from a bosun's chair and/or from a cable-suspended scaffold or work platform which is free swinging (not attached to building) for each hour worked on said rig.
- 2. Cement Finisher, Mason, Plasterer, Terrazzo, Tile Setter: \$1.00 per hour shall be added to the regular straight-time rate for height pay for each hour while working from a bosun's chair and/or from a cable-suspended scaffold or work platform which is free swinging (not attached to building) for each hour worked on said rig.
- 3. Diver (Other than Aqua Lung), Stand-By Diver (Other than Aqua Lung):

A. On any dive exceeding 50 feet, the diver shall, in addition, be paid the following amount of "depth money":

50 feet to 100 feet \$1.50 per foot in excess of 50 feet

 100 feet to 150 feet
 \$100.00 plus \$2.00 per foot in excess of 100 feet

 150 feet to 200 feet
 \$200.00 plus \$3.00 per foot in excess of 150 feet

- B. When it is necessary for a Diver to enter any pipe, tunnel or other enclosure, the said Diver shall, in addition to the hourly rate, receive a premium in accordance with the following schedule for distance traveled from the entrance of the pipe, tunnel or other enclosure:
 - 1) When able to stand erect, but in which there is no vertical ascent:

5 feet to 50 feet \$5.00 per day 50 feet to 100 feet \$7.50 per day 100 feet to 150 feet \$12.50 per day

Greater than 150 feet The premium shall be increased an additional \$7.50 for each succeeding 50 feet.

2) When unable to stand erect and in which there is no vertical ascent:

5 feet to 50 feet \$5.00 per day
50 feet to 100 feet \$7.50 per day
100 feet to 150 feet \$12.50 per day
150 feet to 200 feet \$36.75 per day
200 feet to 300 feet \$1.00 per foot
300 feet to 450 feet \$1.50 per foot
450 feet to 600 feet \$2.50 per foot

4. Electrician:

- A. One and one-half times the straight-time rate while working in a tunnel under construction; under water with aqualung equipment; in a completed tunnel which has only one entrance or exit providing access to safety and where no other personnel are working; or in an underground structure having no access to safety or where no other personnel are working.
- B. Double the straight-time rate shall be paid for the following types of hazardous work regardless if fall prevention devices are used:
 - 1) While working from poles, trusses, stacks, towers, tanks, bosun's chairs, swinging or rolling scaffolds, supporting structures, and open platforms, over 70 feet from the ground where the employee is subject to a free fall; provided, however, that when work is performed on stacks, towers or permanent platforms where the employees are on a firm footing within an enclosure, a hazardous condition does not exist regardless of height;
 - 2) While working outside of a railing or enclosure, or temporary platforms extending outside of a building, or from scaffolding or ladder within an enclosure where an employee's footing is within one foot of the top of such railing, and the employee is subject to a free fall of over 70 feet;
 - 3) Working on buildings while leaning over the railing or edge of the building, and is subject to a free fall of 70 feet; or
 - 4) Two hours minimum hazardous pay per day shall be paid while climbing to a stack, tower or permanent platform which exceeds 70 feet from the ground but where the employee is on a firm footing within an enclosure.
- C. Five percent per hour shall be added to the hourly wage for height pay while working above 9,000 feet elevation.

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REMARKS

Equipment Operator:

A. Operators and Assistants to Engineer (climbing a boom) of cranes (under 50 tons) with booms of eighty feet or more (including jib) or of cranes (under 50 tons) with leads of one hundred feet or more, shall receive additional premium according to the following schedule:

| | Per Hour |
|--|----------|
| Booms of 80 feet up to, or leads of 100 feet up to, but not including 130 feet | \$0.50 |
| Booms and/or leads of 130 feet up to, but not including 180 feet | \$0.75 |
| Booms and/or leads of 180 feet up to and including 250 feet | \$1.15 |
| Booms and/or leads over 250 feet | \$1.50 |

Operators and Assistants to Engineer (climbing a boom) of cranes (50 tons and over) with booms of 180 feet or more (including jib) shall receive additional premium according to the following schedule:

| raing to the following concadio. | |
|--|----------|
| | Per Hour |
| Booms of 180 feet up to and including 250 feet | \$1.25 |
| Booms over 250 feet | \$1.75 |

Note: The boom shall be measured from the center of the heel pin to the center of the boom or jib point sheave.

- B. \$1.25 per hour shall be added to the hourly wage while operating a rig suspended by ropes or cables or to perform work on a Yo-Yo Cat.
- C. In a raise or shaft, a premium of \$.40 per hour will be paid in addition to the regular straight time wage.
 - A raise is defined to be an underground excavation (lined or unlined) whose length exceeds its width and the inclination of the grade from the excavation is greater than 20 degrees from the horizontal.
 - A shaft is defined to be an excavation (lined or unlined) made from the surface of the earth, generally vertical in nature, but may decline up to 75 degrees from the vertical, and whose depth is greater than 15 feet and its largest horizontal dimension. Includes an underground silo.
- D. In a tunnel, a premium of \$.30 per hour will be paid in addition to the regular straight time wages.
 - A tunnel is defined to be an underground excavation (lined or unlined) whose length exceeds its width and the inclination of the grade from the excavation is no greater than 20 degrees from the horizontal.
- 6. Glazier: Effective 9/16/13 \$1.00 per hour shall be added to the hourly wage for height pay for exterior glazing work performed in a walking/working surface with an unprotected side or edge 10 feet or more above a lower level which requires protection from fall hazards by guardrail systems, safety net systems, personal fall arrest systems, position devise systems, fall restraint systems, perimeter safety cables or controlled decking zones.
- 7. Insulator: Six percent per hour shall be added to the hourly wage for hazardous pay while working from a boatswain chair, staging or free standing scaffolding erected from the ground up or mezzanine floor subject to a free fall and skyclimber suspended from a permanent structure and when working above 40 feet.
- 8. Ironworker: \$.50 per hour shall be added to the hourly wage while working in tunnels or coffer dams. \$1.00 per hour shall be added to the hourly wage while working under or covered with water (submerged), or on the summits of Mauna Kea, Mauna Loa or Haleakala.
- 9. Plumber: One and one-half times the straight-time rate for height pay while working from OSHA approved trusses, stacks, towers, tanks, bosun's chair, swinging or rolling scaffolding, supporting structures or on open platforms where the employee is subject to a direct fall of 40 feet or more. Provided, however, that when said work is performed where the employee is on a firm footing within an enclosure, a hazardous condition does not exist regardless of height. \$1.00 per hour shall be added to the straight-time rate while working with flame cutting or any type of welding equipment on any galvanized material or product for at least an hour.
- 10. Chain-Link Fence Erector: \$1.00 per hour shall be added to the hourly wage while performing welding services.
- 11. Water Front Construction: Clamshell or Dipper Operator: \$.50 per hour shall be added to the straight-time rate while working with boom (including jib) over 130 feet.
- 12. Possible wage/fringe option increases:

Carpenter, Drywall and Lather: Effective 9/4/17 - \$0.20; 9/3/18 - \$0.25

Cement Finisher, Plasterer: Effective WRS 488 - \$0.30; 9/4/17 - \$0.30; 9/3/18 - \$0.30

Ironworker: Effective WRS 488 - \$1.00 Roofer: Effective WRS 488 - \$0.40

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REMARKS

- 13. Overtime/Holiday must be paid at one and one-half times the basic hourly rate plus the hourly cost of required fringe, with the following exceptions:
 - A. **Two times** the basic hourly rate plus the hourly cost of required fringe.

Asphalt Paving: Sunday, New Year's Day, Martin Luther King Day, President's Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Boilermaker: Sunday, New Year's Day, President's Day, Memorial Day, Kamehameha Day, July 4th, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

Diver: Sunday, New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Electrician: Sunday, New Year's Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

Elevator Constructor: Saturday, Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Equipment Operator: Sunday, New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day. Thanksgiving Day and Christmas Day.

Floor Layer: Labor Day.

Glazier: Sunday.

Helicopter Worker: Sunday, New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Ironworker: Sunday, New Year's Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

Plumber: Sunday, New Year's Day, Martin Luther King Day, President's Day, Memorial Day, Kamehameha Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

Sheetmetal Worker: Sunday, New Year's Day, Martin Luther King Day, President's Day, Memorial Day, Kamehameha Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

Telecommunication: Sunday, New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

Truck Driver, except Concrete Mixer & Concrete Mixer/Booster: Sunday, New Year's Day, Martin Luther King Day, Presidents' Day Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Water Front Construction (Dredging): Sunday, New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

B. Three times the basic hourly wage plus the hourly cost of required fringe on Labor Day.

Carpenter

Cement Finisher

Chain Link Fence Erector

Drywall

Insulator

Laborer

Lather

Mason

Plasterer

-

Terrazzo

Tile Setter

Underground Laborer

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| | | | BASIC HOURLY RATE | | | | | | | | | | Remarks |
|---------------------------------------|-----------------|---------|-------------------|---------|---------|---------|---------|---------|---------|-----|------|-------------------|-----------------|
| Apprentice Classifications | Interval Hrs | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | HOURLY RATE Total | See Pg 10-11 |
| BOILERMAKER | 1000 | \$23.93 | \$25.64 | \$27.34 | \$29.05 | \$30.76 | \$32.47 | | | | | \$29.45 | 10 |
| CARPENTER | | | | | | | | | | | | | |
| Indentured Prior to 9/1/02 | 1000 | \$17.56 | | | | | | | | | | \$12.27 | 1,10 |
| н | 1000 | | \$19.76 | \$21.95 | \$26.34 | \$30.73 | \$35.12 | \$39.51 | \$41.71 | | | \$20.96 | 1,10 |
| Indentured After 9/1/02 | 1000 | \$17.56 | | | | | | | | | | \$8.27 | 1,10 |
| п | 1000 | | \$19.76 | | | | | | | | | \$12.26 | 1,10 |
| п | 1000 | | | \$21.95 | \$26.34 | | | | | | | \$14.76 | 1,10 |
| н | 1000 | | | | | \$30.73 | \$35.12 | | | | | \$16.76 | 1,10 |
| п | 1000 | | | | | | | \$39.51 | \$41.71 | | | \$18.76 | 1,10 |
| (Effective 8/29/16) | | | | | | | | | | | | | |
| * CARPENTER | | | | | | | | | | | | | |
| Indentured Prior to 9/1/02 | 1000 | \$18.26 | | | | | | | | | | \$12.52 | 1,10 |
| " | 1000 | | \$20.54 | \$22.83 | \$27.39 | \$31.96 | \$36.52 | \$41.09 | \$43.37 | | | \$21.21 | 1,10 |
| Indentured After 9/1/02 | 1000 | \$18.26 | | | | | | | | | | \$8.52 | 1,10 |
| н | 1000 | | \$20.54 | | | | | | | | | \$12.51 | 1,10 |
| п | 1000 | | | \$22.83 | \$27.39 | | | | | | | \$15.01 | 1,10 |
| п | 1000 | | | | | \$31.96 | \$36.52 | | | | | \$17.01 | 1,10 |
| п | 1000 | | | | | | | \$41.09 | \$43.37 | | | \$19.01 | 1,10 |
| CEMENT FINISHER | | | | | | | | | | | | | |
| Indentured Prior to 9/1/03 | 1000 | \$18.95 | | | | | | | | | | \$8.37 | 2,10 |
| п | 1000 | | \$20.85 | \$22.74 | \$26.53 | \$28.43 | \$30.32 | \$32.22 | \$34.11 | | | \$25.83 | 2,10 |
| Indentured On or After 9/1/03 | 1000 | \$18.95 | \$20.85 | \$22.74 | \$26.53 | \$28.43 | \$30.32 | \$32.22 | \$34.11 | | | \$13.02 | 2,10 |
| (Effective 8/29/16) * CEMENT FINISHER | | | | | | | | | | | | | |
| Indentured Prior to 9/1/03 | 1000 | \$19.25 | | | | | | | | | | \$8.92 | 2,10 |
| | 1000 | , | \$21.18 | \$23.10 | \$26.95 | \$28.88 | \$30.80 | \$32.73 | \$34.65 | | | \$26.84 | 2,10 |
| Indentured On or After 9/1/03 | 1000 | \$19.25 | \$21.18 | \$23.10 | \$26.95 | \$28.88 | \$30.80 | \$32.73 | \$34.65 | | | \$13.97 | 2,10 |

| | | | | | BASI | с ног | JRLY | RATE | | | | FRINGE BENEFIT HOURLY RATE | Remarks |
|--|--|---------|---------|---------|---------|---------|---------|---------|---------|-----|------|---|--|
| Apprentice Classifications | Interval Hrs | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | Total | See Pg 10-11 |
| CONSTRUCTION CRAFT LABORER (LABORER I) Indentured On or After 9/3/02 | 1000 1000 | \$17.18 | \$20.61 | \$24.05 | \$27.48 | | | | | | | \$6.55 \$12.95 | 1,10 1,10 |
| * (Effective 8/29/16) CONSTRUCTION CRAFT LABORER (LABORER I) Indentured On or After 9/3/02 " | 1000 1000 | \$17.68 | \$21.21 | \$24.75 | \$28.28 | | | | | | | \$7.05 \$13.60 | 1,10 1,10 |
| CONSTRUCTION EQUIPMENT OPERATOR Indentured On or After 9/1/02 " " " " " | 1000 1000 1000 1000 1000 1000 | \$20.36 | \$22.40 | \$24.43 | \$28.50 | \$32.58 | \$36.65 | | | | | \$7.05 \$17.37 \$18.31 \$20.19 \$22.06 \$23.94 | 3,10 3,10 3,10 3,10 3,10 3,10 |
| DRYWALL INSTALLER Indentured Prior to 9/1/02 | 1000 1000 | \$17.66 | \$19.87 | \$22.08 | \$26.49 | \$30.91 | \$35.32 | \$39.74 | \$41.94 | | | \$12.27 \$20.96 | 10 10 |
| Indentured After 9/1/02 " " " " " " " " " " " " " " " " " " " | 1000 1000 1000 1000 1000 | \$17.66 | \$19.87 | \$22.08 | \$26.49 | \$30.91 | \$35.32 | \$39.74 | \$41.94 | | | \$8.27 \$12.26 \$14.76 \$16.76 \$18.76 | 10 10 10 10 10 |
| (Effective 8/29/16) * DRYWALL INSTALLER Indentured Prior to 9/1/02 | 1000 1000 | \$18.36 | \$20.66 | \$22.95 | \$27.54 | \$32.13 | \$36.72 | \$41.31 | \$43.61 | | | \$12.52 \$21.21 | 10 10 |
| Indentured After 9/1/02 " " " " | 1000 1000 1000 1000 1000 | \$18.36 | \$20.66 | \$22.95 | \$27.54 | \$32.13 | \$36.72 | \$41.31 | \$43.61 | | | \$8.52 \$12.51 \$15.01 \$17.01 \$19.01 | 10 10 10 10 10 |

| | | | | | | FRINGE BENEFIT HOURLY RATE | Remarks | | | | | | | |
|--------------------|------------------------|-----------------|----------|---------|---------|----------------------------------|---------|---------|---------|---------|---------|---------|----------|-----------------|
| Apprentice CI | assifications | Interval Hrs | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | Total | See Pg 10-11 |
| ELECTRICIAN (W | (IRE & LINE INSTALLER) | 1000 | \$15.07 | | | | | | | | | | \$10.10 | 10 |
| II . | п | 1000 | | \$17.22 | | | | | | | | | \$10.42 | 10 |
| " | " | 1000 | | | \$19.37 | | | | | | | | \$16.59 | 4,10 |
| II . | " | 1000 | | | | \$21.53 | | | | | | | \$17.57 | 4,10 |
| II . | " | 1000 | | | | | \$23.68 | | | | | | \$18.53 | 4,10 |
| " | " | 1000 | | | | | | \$25.83 | | | | | \$19.49 | 4,10 |
| II . | " | 1000 | | | | | | | \$27.98 | | | | \$20.47 | 4,10 |
| " | " | 1000 | | | | | | | | \$30.14 | | | \$21.44 | 4,10 |
| II . | " | 1000 | | | | | | | | | \$34.44 | | \$23.36 | 4,10 |
| " | " | 1000 | | | | | | | | | | \$38.75 | \$25.30 | 4,10 |
| (Effective 2/21/16 |) | | | | | | | | | | | | | |
| * ELECTRICIAN (W | (IRE & LINE INSTALLER) | 1000 | \$15.28 | | | | | | | | | | \$9.38 | 10 |
| II . | п | 1000 | | \$17.46 | | | | | | | | | \$9.70 | 10 |
| II . | п | 1000 | | | \$19.64 | | | | | | | | \$16.28 | 4,10 |
| II . | п | 1000 | | | | \$21.83 | | | | | | | \$17.27 | 4,10 |
| II . | п | 1000 | | | | | \$24.01 | | | | | | \$18.30 | 4,10 |
| II . | п | 1000 | | | | | | \$26.19 | | | | | \$19.31 | 4,10 |
| II . | n | 1000 | | | | | | | \$28.37 | | | | \$20.31 | 4,10 |
| II . | n | 1000 | | | | | | | | \$30.56 | | | \$21.33 | 4,10 |
| II . | n | 1000 | | | | | | | | | \$34.92 | | \$23.36 | 4,10 |
| " | п | 1000 | | | | | | | | | | \$39.29 | \$25.38 | 4,10 |
| * ELEVATOR CONS | STRUCTOR | 850 | \$27.145 | | | | | | | | | | - | 10 |
| II . | | 850 | | \$29.86 | | | | | | | | | \$29.985 | 10 |
| п | | 1700 | | | \$35.29 | \$38.00 | \$43.43 | | | | | | \$29.985 | 10 |
| FLOOR LAYER | | | | | | | | | | | | | | |
| Indentured After | 2/27/94 | 1000 | \$12.46 | \$14.02 | | | | | | | | | \$16.75 | 10 |
| " " | | 1000 | | | \$15.58 | \$17.13 | | | | | | | \$21.75 | 10 |
| " " | | 1000 | | | | | \$18.69 | \$20.25 | \$23.36 | \$26.48 | | | \$25.75 | 10 |
| | | | | | | | • | | | | | | | <u> </u> |

| | | | | | BASI | с ног | JRLY | RATE | | | | FRINGE BENEFIT HOURLY RATE | Remarks |
|-------------------------------------|-----------------|---------|---------|---------|---------|---------|----------------|---------|---------|---------|---------|----------------------------------|-----------------|
| Apprentice Classifications | Interval Hrs | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | Total | See Pg 10-11 |
| GLAZIER | 1115 | 151 | ZIIU | Siu | 401 | 301 | our | 7111 | oui | 9111 | 1001 | Total | Fg 10-11 |
| Indentured On or After 7/1/99 | 1000 | \$15.65 | | | | | | | | | | \$25.73 | 5,10 |
| " Alter 1/1/99 | 1000 | φ15.05 | \$17.39 | | | | | | | | | \$25.73 | 5,10 |
| п | 1000 | | ψ17.59 | \$19.13 | | | | | | | | \$26.21 | 5,10 |
| п | 1000 | | | ψ15.15 | \$20.87 | | | | | | | \$26.45 | 5,10 |
| п | 1000 | | | | Ψ20.07 | \$24.35 | | | | | | \$26.93 | 5,10 |
| п | 1000 | | | | | ψ2σσ | \$26.09 | | | | | \$27.17 | 5,10 |
| п | 1000 | | | | | | V _0.00 | \$27.82 | | | | \$27.41 | 5,10 |
| п | 1000 | | | | | | | , | \$29.56 | | | \$27.65 | 5,10 |
| n . | 1000 | | | | | | | | | \$31.30 | | \$27.89 | 5,10 |
| н | 1000 | | | | | | | | | | \$33.04 | \$28.13 | 5,10 |
| HEAVY DUTY REPAIRER & WELDER (EQUIF | P. OPR 9A) | | | | | | | | | | | | |
| Indentured On or After 9/1/02 | 1000 | \$20.36 | | | | | | | | | | \$7.05 | 3,10 |
| п | 1000 | | \$22.40 | | | | | | | | | \$17.37 | 3,10 |
| п | 1000 | | | \$24.43 | | | | | | | | \$18.31 | 3,10 |
| п | 1000 | | | | \$28.50 | | | | | | | \$20.19 | 3,10 |
| u . | 1000 | | | | | \$32.58 | | | | | | \$22.06 | 3,10 |
| n . | 1000 | | | | | | \$34.61 | | | | | \$23.01 | 3,10 |
| II | 1000 | | | | | | | \$36.65 | | | | \$23.94 | 3,10 |
| " | 1000 | | | | | | | | \$38.68 | | | \$24.89 | 3,10 |
| INSULATOR | | | | | | | | | | | | | |
| Hired After 5/3/95 | 2000 | \$19.83 | | | | | | | | | | \$7.70 | 6,10 |
| n | 2000 | | \$19.83 | | | | | | | | | \$17.31 | 6,10 |
| n | 2000 | | | \$23.79 | | | | | | | | \$17.59 | 6,10 |
| u . | 2000 | | | | \$27.76 | | | | | | | \$17.88 | 6,10 |
| п | 2000 | | | | | \$31.72 | | | | | | \$18.16 | 6,10 |

| | | BASIC HOURLY RATE Interval | | | | | | | | | | | Remarks |
|--|-----------------|-----------------------------|---------------|---------------|---------------|--------------|----------------|---------------|---------------|-----|------|---------|-----------------|
| Apprentice Classifications | Interval Hrs | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | Total | See Pg 10-11 |
| IRONWORKER (REINFORCING & STRUCTURAL) | | | | | | | | | | | | | |
| Indentured After 10/31/93 | 1000 | \$18.38 | | | | | | | | | | \$24.67 | 7,10 |
| n | 1000 | | \$20.21 | | | | | | | | | \$25.19 | 7,10 |
| п | 1000 | | | \$22.05 | | | | | | | | \$25.71 | 7,10 |
| п | 1000 | | | | \$25.73 | | | | | | | \$26.76 | 7,10 |
| п | 1000 | | | | | \$29.40 | | | | | | \$27.81 | 7,10 |
| п | 1000 | | | | | | \$33.08 | | | | | \$28.86 | 7,10 |
| (Effective 9/1/16) * IRONWORKER (REINFORCING & STRUCTURAL) | | | | | | | | | | | | | |
| Indentured After 10/31/93 | 1000 | \$18.88 | | | | | | | | | | \$24.67 | 7,10 |
| п | 1000 | | \$20.76 | | | | | | | | | \$25.19 | 7,10 |
| п | 1000 | | | \$22.65 | | | | | | | | \$25.71 | 7,10 |
| п | 1000 | | | | \$26.43 | | | | | | | \$26.76 | 7,10 |
| II . | 1000 | | | | | \$30.20 | | | | | | \$27.81 | 7,10 |
| п | 1000 | | | | | | \$33.98 | | | | | \$28.86 | 7,10 |
| MASON | | | | | | | | | | | | | |
| BRICKLAYER | | | | | | | | | | | | | |
| Indentured On or After 9/1/03 | 1000 | \$18.43 | \$20.27 | \$22.11 | \$25.80 | \$27.64 | \$29.48 | \$31.32 | \$33.17 | | | \$10.87 | 2,10 |
| | .000 | ψ.σσ | 4 _0 | 4 | Ψ=0.00 | Ψ= | Ψ=0.10 | ψοο_ | φσσ | | | 4.0.0. | _, |
| STONE MASON | 4000 | # 00.07 | 000.44 | #00.05 | #05.00 | 07.04 | # 00 40 | CO4.00 | 000.47 | | | 040.07 | 0.40 |
| Indentured On or After 9/1/03 | 1000 | \$20.27 | \$22.11 | \$23.95 | \$25.80 | \$27.64 | \$29.48 | \$31.32 | \$33.17 | | | \$10.87 | 2,10 |
| POINTER-CAULKER-WEATHERPROOFER | | | | | | | | | | | | | |
| Indentured On or After 9/1/03 | 1000 | \$18.55 | \$20.41 | \$22.26 | \$25.97 | \$29.68 | \$33.39 | | | | | \$10.87 | 2,10 |
| * PAINTER | 1000 | \$15.68 | | | | | | | | | | \$8.72 | |
| " | 1000 | ψ15.00 | \$17.43 | \$19.17 | \$20.91 | \$22.65 | | | | | | \$12.22 | |
| п | 1000 | | ψ17.40 | Ψ10.17 | Ψ20.01 | Ψ22.00 | \$24.40 | | | | | \$13.22 | |
| п | 1000 | | | | | | Ψ21.10 | \$27.88 | \$31.37 | | | \$13.97 | |
| * PAVING EQUIPMENT OPERATOR | 1000 | \$21.68 | | | | | | | | | | \$7.05 | 10 |
| I AVING EQUIFIVILINI OF ENATOR | 1000 | φ21.00 | \$27.59 | | | | | | | | | \$17.83 | 10 |
| п | 1000 | | Ψ21.39 | \$31.54 | | | | | | | | \$20.76 | 10 |
| п | 1000 | | | ψυ1.υ4 | \$35.48 | | | | | | | \$24.68 | 10 |
| | 1000 | | | | ψου.⊣υ | | | | | | | Ψ2-7.00 | 10 |

Rates are applicable only to apprentices who are parties to agreements registered with the Department of Labor and where the journeyworker to apprentice ratio is met.

| | | | | | BASI | с ног | JRLY | RATE | | | | FRINGE BENEFIT HOURLY RATE | Remarks |
|---|-----------------|----------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------|---------|----------------------------------|-----------------|
| Apprentice Classifications | Interval Hrs | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | Total | See Pg 10-11 |
| PLASTERER | 4000 | #45.00 | 047.57 | \$40.50 | CO4 47 | COO 40 | ₽07.00 | #24.00 | ФОГ 4.4 | | | £42.00 | 0.40 |
| Indentured On or After 9/1/03 | 1000 | \$15.62 | \$17.57 | \$19.52 | \$21.47 | \$23.42 | \$27.33 | \$31.23 | \$35.14 | | | \$13.02 | 2,10 |
| (Effective 8/29/16) | | | | | | | | | | | | | |
| * PLASTERER | 4000 | 0.45.00 | 0.47.04 | # 40.00 | #04.00 | 000.07 | #07.05 | # 04.00 | #05.04 | | | 04400 | 0.40 |
| Indentured On or After 9/1/03 | 1000 | \$15.92 | \$17.91 | \$19.90 | \$21.88 | \$23.87 | \$27.85 | \$31.83 | \$35.81 | | | \$14.03 | 2,10 |
| PLUMBER: | | | | | | | | | | | | | |
| PLUMBER; FIRE SPRINKLER FITTER; REFRIGE | RATION | | | | | | | | | | | | |
| AIR CONDITIONING; STEAMFITTER-WELDER | | | | | | | | | | | | | |
| Indentured Prior to 9/2/85 | 1000 | \$14.12 | | | | | | | | | | \$18.63 | 8,10 |
| n . | 1000 | | \$16.14 | | | | | | | | | \$19.10 | 8,10 |
| II . | 1000 | | | \$18.16 | | | | | | | | \$19.57 | 8,10 |
| н | 1000 | | | | \$20.18 | | | | | | | \$20.04 | 8,10 |
| II . | 1000 | | | | | \$22.19 | | | | | | \$20.51 | 8,10 |
| II . | 1000 | | | | | | \$24.21 | | | | | \$20.98 | 8,10 |
| н | 1000 | | | | | | | \$26.23 | | | | \$21.45 | 8,10 |
| п | 1000 | | | | | | | | \$28.25 | | | \$21.92 | 8,10 |
| п | 1000 | | | | | | | | | \$30.26 | | \$22.39 | 8,10 |
| II . | 1000 | | | | | | | | | | \$32.28 | \$22.85 | 8,10 |
| PLUMBER: | | | | | | | | | | | | | |
| PLUMBER; FIRE SPRINKLER FITTER; REFRIGE | RATION | | | | | | | | | | | | |
| AIR CONDITIONING; STEAMFITTER-WELDER | | | | | | | | | | | | | |
| Indentured On or After 9/2/85 | 1000 | \$16.22 | | | | | | | | | | \$5.00 | 8,10 |
| п | 1000 | | \$16.22 | | | | | | | | | \$5.05 | 8,10 |
| п | 1000 | | | \$19.17 | | | | | | | | \$6.61 | 8,10 |
| п | 1000 | | | | \$19.17 | | | | | | | \$6.61 | 8,10 |
| п | 1000 | | | | | \$22.19 | | | | | | \$7.30 | 8,10 |
| п | 1000 | | | | | | \$22.19 | | | | | \$7.30 | 8,10 |
| п | 1000 | | | | | | | \$26.23 | | | | \$8.13 | 8,10 |
| п | 1000 | | | | | | | | \$26.23 | | | \$8.13 | 8,10 |
| п | 1000 | | | | | | | | | \$30.26 | | \$8.76 | 8,10 |
| п | 1000 | | | | | | | | | | \$30.26 | \$8.76 | 8,10 |

PLUMBER: Continued on Next Page

Rates are applicable only to apprentices who are parties to agreements registered with the Department of Labor and where the journeyworker to apprentice ratio is met.

| | | BASIC HOURLY RATE | | | | | | | | FRINGE BENEFIT HOURLY RATE | Remarks | | |
|---|-----------------|-------------------|---------|---------|----------|------------------------|---------------|----------------|---------------|----------------------------------|----------------|--------------------|-----------------|
| Apprentice Classifications | Interval Hrs | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | Total | See Pg 10-11 |
| (Effective 7/3/16) | | | | | | | | | | | | | |
| * PLUMBER: | | | | | | | | | | | | | |
| PLUMBER; FIRE SPRINKLER FITTER; REFRIGERAT | ION | | | | | | | | | | | | |
| AIR CONDITIONING; STEAMFITTER-WELDER | | | | | | | | | | | | | |
| Indentured Prior to 9/2/85 | 1000 | \$14.30 | | | | | | | | | | \$18.88 | 8,10 |
| | 1000 | | \$16.34 | 0.000 | | | | | | | | \$19.35 | 8,10 |
| " | 1000 | | | \$18.38 | | | | | | | | \$19.82 | 8,10 |
| | 1000 | | | | \$20.43 | # 00 4 7 | | | | | | \$20.29 | 8,10 |
| | 1000 | | | | | \$22.47 | CO4.54 | | | | | \$20.76 | 8,10 |
| | 1000 | | | | | | \$24.51 | \$00.55 | | | | \$21.23 | 8,10 |
| | 1000 | | | | | | | \$26.55 | #00.00 | | | \$21.70 | 8,10 |
| 1 | 1000 | | | | | | | | \$28.60 | #20.04 | | \$22.17 | 8,10 |
| 11 | 1000 1000 | | | | | | | | | \$30.64 | \$32.68 | \$22.64 \$23.10 | 8,10 |
| | | | | | | | | | | | \$3∠.00 | · · | 8,10 |
| Indentured On or After 9/2/85 | 1000 | \$16.42 | | | | | | | | | | \$5.00 | 8,10 |
| | 1000 | | \$16.42 | | | | | | | | | \$5.05 | 8,10 |
| " | 1000 | | | \$19.40 | . | | | | | | | \$7.12 | 8,10 |
| " | 1000 | | | | \$19.40 | | | | | | | \$7.12 | 8,10 |
| " | 1000 | | | | | \$22.47 | | | | | | \$7.83 | 8,10 |
| " | 1000 | | | | | | \$22.47 | *** | | | | \$7.83 | 8,10 |
| " | 1000 | | | | | | | \$26.55 | ^ | | | \$8.68 | 8,10 |
| | 1000 | | | | | | | | \$26.55 | # 00.04 | | \$8.68 | 8,10 |
| | 1000 | | | | | | | | | \$30.64 | # 00.04 | \$9.32 | 8,10 |
| - - | 1000 | | | | | | | | | | \$30.64 | \$9.32 | 8,10 |
| ROOFER | | | | | | | | | | | | | 1 |
| Indentured Prior to 11/1/98 | 1000 | \$17.48 | \$19.43 | \$23.31 | | | | | | | | \$13.28 | 9 |
| п | 1000 | | | • | \$27.20 | \$31.08 | \$34.97 | \$36.91 | | | | \$17.53 | |
| Indentured On or After 11/1/98 and Prior to 11/4/12 | 1000 | \$17.48 | \$19.43 | \$23.31 | | | | | | | | \$13.28 | 9 |
| " | 1000 | ψ17.70 | ψ1070 | Ψ20.01 | \$27.20 | \$31.08 | \$33.02 | \$34.97 | \$36.91 | | | \$17.53 | |
| Indentured On or After 11/4/12 | 2000 | \$17.48 | \$23.31 | | | | | | | | | \$13.28 | 9 |
| п | 2000 | , - | · | \$31.08 | \$34.97 | | | | | | | \$17.53 | 9 |

ROOFERS: Continued on Next Page

Rates are applicable only to apprentices who are parties to agreements registered with the Department of Labor and where the journeyworker to apprentice ratio is met.

| | | BASIC HOURLY RATE | | | | | | | | | FRINGE BENEFIT HOURLY RATE | Remarks | |
|---|---|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------------------|--|--|
| Apprentice Classifications | Interval Hrs | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | Total | See Pg 10-11 |
| (Effective 9/4/16) * ROOFER | | | | | | | | | | | | | |
| Indentured Prior to 11/1/98 | 1000 1000 | \$17.93 | \$19.93 | \$23.91 | \$27.90 | \$31.88 | \$35.87 | \$37.86 | | | | \$13.28 \$17.53 | 9 |
| Indentured On or After 11/1/98 and Prior to 11/4/12 | 1000 1000 | \$17.93 | \$19.93 | \$23.91 | \$27.90 | \$31.88 | \$33.87 | \$35.87 | \$37.86 | | | \$13.28 \$17.53 | 9 |
| Indentured On or After 11/4/12 | 2000 2000 | \$17.93 | \$23.91 | \$31.88 | \$35.87 | | | | | | | \$13.28 \$17.53 | 9 9 |
| SHEETMETAL WORKER " " " " " " " " " " " " " | 1000 1000 1000 1000 1000 1000 1000 100 | \$15.76 | \$17.73 | \$19.70 | \$21.67 | \$23.64 | \$25.61 | \$27.58 | \$29.55 | \$31.52 | \$33.49 | \$11.40 \$11.58 \$19.29 \$19.78 \$20.26 \$20.75 \$21.23 \$21.72 \$22.20 \$22.69 | 10 10 10 10 10 10 10 10 10 |
| (Effective 2/28/16) * SHEETMETAL WORKER " " " " " " " " " " " | 1000 1000 1000 1000 1000 1000 1000 100 | \$16.00 | \$18.00 | \$20.00 | \$21.99 | \$23.99 | \$25.99 | \$27.99 | \$29.99 | \$31.99 | \$33.99 | \$11.52 \$11.70 \$19.78 \$20.26 \$20.75 \$21.26 \$21.75 \$22.23 \$22.72 \$23.22 | 10 10 10 10 10 10 10 10 |

SHEETMETAL WORKER: Continued on the next page

| | | | | | BASI | с ног | JRLY | RATE | | | | FRINGE BENEFIT HOURLY RATE | Remarks |
|--|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------------------|-----------------|
| Apprentice Classifications Inter | | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | Total | See Pg 10-11 |
| (Effective 8/28/16) | 1.10 | 100 | 2.110 | o.u | 10.1 | 0.11 | Otti | 7 | Otti | 0.11 | 1001 | 10141 | 1 9 10 11 |
| * SHEETMETAL WORKER | 1000 | \$16.24 | | | | | | | | | | \$11.65 | 10 |
| п | 1000 | | \$18.27 | | | | | | | | | \$11.83 | 10 |
| п | 1000 | | | \$20.30 | | | | | | | | \$20.30 | 10 |
| п | 1000 | | | | \$22.32 | | | | | | | \$20.80 | 10 |
| п | 1000 | | | | | \$24.35 | | | | | | \$21.30 | 10 |
| п | 1000 | | | | | | \$26.38 | | | | | \$21.80 | 10 |
| п | 1000 | | | | | | | \$28.41 | | | | \$22.30 | 10 |
| п | 1000 | | | | | | | | \$30.44 | | | \$22.82 | 10 |
| п | 1000 | | | | | | | | | \$32.47 | | \$23.31 | 10 |
| | 1000 | | | | | | | | | | \$34.50 | \$23.81 | 10 |
| TAPER | 1000 | \$16.60 | \$18.68 | \$20.75 | \$22.83 | \$24.90 | | | | | | \$8.25 | |
| | 1000 | | | | | | \$26.98 | | | | | \$8.75 | |
| | 1000 | | | | | | | \$31.13 | \$35.28 | | | \$11.80 | |
| TELECOMMUNICATION WORKER | | | | | | | | | | | | | |
| (TECHNICIAN I / SPLICER) | 1000 | \$15.78 | | | | | | | | | | \$9.78 | 10 |
| " " | 1000 | | \$17.10 | | | | | | | | | \$10.00 | 10 |
| " " | 1000 | | | \$18.41 | | | | | | | | \$10.24 | 10 |
| 11 | 1000 | | | | \$19.73 | | | | | | | \$10.46 | 10 |
| " " | 1000 | | | | | \$21.04 | | | | | | \$10.67 | 10 |
| " " | 1000 | | | | | | \$23.67 | | | | | \$11.13 | 10 |
| (Effective 8/28/16) * TELECOMMUNICATION WORKER | | | | | | | | | | | | | |
| (TECHNICIAN I / SPLICER) | 1000 | \$16.41 | | | | | | | | | | \$9.90 | 10 |
| " " | 1000 | ψ.σ.π1 | \$17.78 | | | | | | | | | \$10.12 | 10 |
| n n | 1000 | | ψ.,,,, | \$19.15 | | | | | | | | \$10.36 | 10 |
| п | 1000 | | | Ψ10.10 | \$20.51 | | | | | | | \$10.59 | 10 |
| 11 | 1000 | | | | Ψ=0.01 | \$21.88 | | | | | | \$10.83 | 10 |
| n n | 1000 | | | | | ψ2σσ | \$24.62 | | | | | \$11.28 | 10 |
| * TILE SETTER | | | | | | | | | | | | | |
| CERAMIC & HARD TILE | | | | | | | | | | | | | |
| Indentured Prior to 9/1/03 | 1000 | \$18.55 | | | | | | | | | | \$7.12 | 2,10 |
| n | 1000 | | \$20.41 | \$22.26 | \$25.97 | \$27.83 | \$29.68 | \$31.54 | \$33.39 | | | \$23.47 | 2,10 |
| Indentured On or After 9/1/03 | 1000 | \$18.55 | \$20.41 | \$22.26 | \$25.97 | \$27.83 | \$29.68 | \$31.54 | \$33.39 | | | \$10.87 | 2,10 |
| Indentated Off of Arter 5/ 1/05 | 1000 | ψ10.55 | Ψ20.71 | ΨΖΖ.ΖΟ | Ψ20.01 | Ψ21.00 | Ψ20.00 | ψυ1.04 | ψυυ.υυ | | | ψ10.07 | 2,10 |

^{*} Indicates a wage, fringe benefit, remark, or title change from the previous bulletin.

APPRENTICE SCHEDULE BULLETIN NO. 487 FEBRUARY 15, 2016

REMARKS:

- 1. Carpenter, Construction Craft Laborer: \$.50 per hour shall be added to the regular straight-time rate for height pay for each hour while working from a bosun's chair and/or from a cable-suspended scaffold or work platform which is free swinging (not attached to building) for each hour worked on said rig.
- 2. Cement Finisher, Mason, Plasterer, Tile Setter: \$1.00 per hour shall be added to the regular straight-time rate for height pay for each hour while working from a bosun's chair and/or from a cable-suspended scaffold or work platform which is free swinging (not attached to building) for each hour worked on said rig.
- 3. Construction Equipment Operator, Heavy Duty Repairer & Welder: \$1.25 per hour shall be added to the hourly wage while operating a rig suspended by ropes or cables or to perform work on a Yo-Yo Cat.
- 4. Electrician:
 - A. One and one-half times the straight-time rate while working in a tunnel under construction; under water with aqualung equipment; in a completed tunnel which has only one entrance or exit providing access to safety and where no other personnel are working; or in an underground structure having no access to safety or where no other personnel are working.
 - B. Double the straight-time rate shall be paid for the following types of hazardous work regardless if fall prevention devices are used:
 - 1) While working from poles, trusses, stacks, towers, tanks, bosun's chairs, swinging or rolling scaffolds, supporting structures, and open platforms, over 70 feet from the ground where the employee is subject to a free fall; provided, however, that when work is performed on stacks, towers or permanent platforms where the employees are on a firm footing within an enclosure, a hazardous condition does not exist regardless of height;
 - 2) While working outside of a railing or enclosure, or temporary platforms extending outside of a building, or from scaffolding or ladder within an enclosure where an employee's footing is within one foot of the top of such railing, and the employee is subject to a free fall of over 70 feet;
 - 3) Working on buildings while leaning over the railing or edge of the building, and is subject to a free fall of 70 feet; or
 - 4) Two hours minimum hazardous pay per day shall be paid while climbing to a stack, tower or permanent platform which exceeds 70 feet from the ground but where the employee is on a firm footing within an enclosure.
 - C. Five percent per hour shall be added to the hourly wage for height pay while working above 9,000 feet elevation.
- 5. Glazier: Effective 9/16/13 \$1.00 per hour shall be added to the hourly wage for height pay for exterior glazing work performed in a walking/working surface with an unprotected side or edge 10 feet or more above a lower level which requires protection from fall hazards by guardrail systems, safety net systems, personal fall arrest systems, position devise systems, fall restraint systems, perimeter safety cables or controlled decking zones.
- 6. Insulator: Six percent per hour shall be added to the hourly wage for hazardous pay while working from a boatswain chair, staging or free standing scaffolding erected from ground up or mezzanine floor subject to a free fall and skyclimber suspended from a permanent structure and when working above 40 feet.
- 7. Ironworker: \$.50 per hour shall be added to the hourly wage while working in tunnels or coffer dams. \$1.00 per hour shall be added to the hourly wage while working under or covered with water (submerged), or on the summits of Mauna Kea, Mauna Loa or Haleakala.
- 8. Plumber: One and one-half times the straight-time rate for height pay while working from OSHA approved trusses, stacks, towers, tanks, bosun's chair, swinging or rolling scaffolding, supporting structures or on open platforms where the employee is subject to a direct fall of 40 feet or more. Provided, however, that when said work is performed where the employee is on a firm footing within an enclosure, a hazardous condition does not exist regardless of height. \$1.00 per hour shall be added to the straight-time rate while working with flame cutting or any type of welding equipment on any galvanized material or product for at least an hour.
- 9. Roofer: When an apprentice has accumulated 2500 hours, \$4.25 will be added to his/her pension/annuity plan.

 The apprenticeship program for apprentices indentured on or after November 4, 2012, consists of four steps with 2,000 hours for each step.

APPRENTICE SCHEDULE BULLETIN NO. 487 FEBRUARY 15, 2016

REMARKS:

- 10. Overtime/Holiday must be paid at one and one-half times the basic hourly rate plus the hourly cost of required fringe, with the following exceptions:
 - A. **Two times** the basic hourly rate plus the hourly cost of required fringe.

Boilermaker: Sunday, New Year's Day, President's Day, Memorial Day, Kamehameha Day, July 4th, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

Construction Equipment Operator: Sunday, New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Electrician: Sunday, New Year's Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

Elevator Constructor: Saturday, Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Floor Layer: Labor Day.

Glazier: Sunday.

Heavy Duty Repairer & Welder: Sunday, New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Ironworker: Sunday, New Year's Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

Paving Equipment Operator: Sunday, New Year's Day, Martin Luther King Day, Presidents' Day, Memorial Day, Kamehameha Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day.

Plumber: Sunday, New Year's Day, Martin Luther King Day, President's Day, Memorial Day, Kamehameha Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

Sheetmetal Worker: Sunday, New Year's Day, Martin Luther King Day, President's Day, Memorial Day, Kamehameha Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

Telecommunication Worker: Sunday, New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

B. Three times the basic hourly wage plus the hourly cost of required fringe on Labor Day.

Carpenter
Cement Finisher
Drywall Installer
Insulator
Construction Craft Laborer
Mason
Plasterer
Tile Setter

Years 2016 and 2017 Holidays to be observed by the HAWAII STATE GOVERNMENT

www.dhrd.hawaii.gov

Website where State Holiday Schedule posted

Year 2016 HAWAII STATE HOLIDAYS

| (Hawaii Rev. Statutes, Sec. 8-1) | Day Observed in 2016 | Official Date Designated in Statute/Constitution |
|---|----------------------|--|
| New Year's Day | Jan. 1 Friday | The first day in January |
| Dr. Martin Luther King, Jr. Day | Jan. 18 Monday | The third Monday in January |
| Presidents' Day | Feb. 15 Monday | The third Monday in February |
| Prince Jonah Kuhio Kalanianaole Day | Mar. 25 Friday | The twenty-sixth day in March |
| Good Friday | Mar. 25 Friday | The Friday preceding Easter Sunday |
| Memorial Day | May 30 Monday | The last Monday in May |
| King Kamehameha I Day | June 10 Friday | The eleventh day in June |
| Independence Day | July 4 Monday | The fourth day in July |
| Statehood Day | Aug. 19 Friday | The third Friday in August |
| Labor Day | Sept. 5 Monday | The first Monday in September |
| General Election Day Monday of even-numbered years. (Haw | - | The first Tuesday in Nov. following the first e 2 – Section 8) |
| Veterans' Day | Nov. 11 Friday | The eleventh day in November |
| Thanksgiving | Nov. 24 Thursday | The fourth Thursday in November |
| Christmas | Dec. 26 Monday | The twenty-fifth day in December |

Year 2017 HAWAII STATE HOLIDAYS

| (Hawaii Rev. Statutes, Sec. 8-1) New Year's Day | Day Observed in 2017 Jan. 2 Monday | Official Date Designated in Statute/Constitution The first day in January |
|---|------------------------------------|--|
| Dr. Martin Luther King, Jr. Day | Jan. 16 Monday | The third Monday in January |
| Presidents' Day | Feb. 20 Monday | The third Monday in February |
| Prince Jonah Kuhio Kalanianaole Day | Mar. 27 Monday | The twenty-sixth day in March |
| Good Friday | April 14 Friday | The Friday preceding Easter Sunday |
| Memorial Day | May 29 Monday | The last Monday in May |
| King Kamehameha I Day | June 12 Monday | The eleventh day in June |
| Independence Day | July 4 Tuesday | The fourth day in July |
| Statehood Day | Aug. 18 Friday | The third Friday in August |
| Labor Day | Sept. 4 Monday | The first Monday in September |
| Veterans' Day | Nov. 10 Friday | The eleventh day in November |
| Thanksgiving | Nov. 23 Thursday | The fourth Thursday in November |
| Christmas | Dec. 25 Monday | The twenty-fifth day in December |
| | | |

FOOTNOTES: For use solely by State government agencies. Federal government and local banking holidays may differ. For State agencies that operate on other than Monday-Friday 7:45 AM to 4:30 PM schedules, also refer to appropriate collective bargaining agreements. Created by the Department of Human Resources Development 8/11/2015; subject to change.



DEPARTMENT OF HAWAIIAN HOME LANDS 91-5420 Kapolei Parkway, Kapolei, HI. 96707

Technical Specifications

FOR

FURNISHING LABOR AND MATERIALS FOR

Kanakaloloa Cemetery Improvements

Hoolehua, Molokai, Hawaii

TAX MAP KEY: (2) 5-2-017:003

IFB NO.: IFB-16-HHL-011

May 2015



<u>DIVISION 1 – GENERAL REQUI</u>REMENTS

SECTION 00850 - DRAWING INDEX

1.01 CONTRACT DRAWINGS AND SPECIFICATIONS

- A. The Contractor shall:
 - 1. Check all drawings furnished immediately upon receipt;
 - 2. Compare all drawings and verify the figures before laying out the work;
 - 3. Promptly notify the DHHL of any discrepancies; and
 - 4. Be responsible for any errors which might have been avoided by complying with this paragraph B.
- B. Large scale drawings shall govern over small scale drawings. Figures marked on drawings shall be followed in preference to scale measurements.
- C. Omissions from the drawings or specifications or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. Any omission shall be performed as if fully and correctly set forth and described in the drawings and specifications.
- D. The work shall conform to the specifications and the contract drawings on the following index of drawings:

| DRAWING # | <u>TITLE</u> |
|-----------|---|
| T001 | Title, Index to Drawings, Notes, Location and Vicinity Maps |
| T002 | Notes 1 |
| T003 | Notes 2 |
| C100 | Existing Conditions and Demolition Plans |
| C200 | General Plans |
| C201 | Plan and Profile Driveway A |
| C202 | Plan and Profile Driveway B |
| C203 | Plan and Profile Lihi Pali Avenue |
| C204 | Pavilion Site, Utility and Grading Plan |
| C300 | Erosion Control Plan |
| C400 | Details 1 |
| C401 | Details 2 |
| C402 | Details 3 |
| C403 | Typical Roadway Sections and Details 4 |
| C500 | Traffic Control Plan |

END OF SECTION

SECTION 01010 – SUMMARY OF WORK

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

The General Provisions and the Special Provisions apply to this Section. Special attention is directed to the Proposal Schedule.

1.02 SUMMARY

Section Includes:

- 1. Scope of Work
- 2. Vehicle Parking
- 3. Provisions for Field Office/Storage Space
- 4. Location of the Work
- 5. Hours of work
- 6. Safety
- 7. Disposal of excess soil materials
- 8. Construction stakes, lines and grades
- 9. Special project requirements
- 10. Unforeseen Conditions Allowances

1.03 SCOPE OF WORK

Scope of Work: To provide various improvements but not limited to the following. To pave access roadways to the grave sites and parking lot for future pavilion. Provide a concrete pad for the future pavilion with hose bibs to provide water for flowers, etc. Provide a wall and install gates to control access from Lihi Pali Avenue into the cemetery to discourage illegal substance use and sales.

1.04 VEHICLE PARKING

Subject to availability of space and approval by the DHHL West Hawaii District Supervisor, parking may be made available at a designated parking structure for vehicle parking. The General Contractor shall submit the parking request to the DHHL West Hawaii District Supervisor.

1.05 PROVISIONS FOR FIELD OFFICE/STORAGE SPACE

Pending the availability of space on DHHL property, the State will issue a permit to the Contractor for the use of the space, at no charge, to be used specifically for a field office and/or storage of materials and equipment.

Since space on DHHL property is limited, the State does not guarantee that the space provided to the Contractor will be in close proximity to the project site. The State will make every effort to provide the Contractor with space on DHHL property, however, should the State determine that no space is available for such use(s), the responsibility shall then be on the Contractor to find space outside of DHHL property.

1.06 LOCATION OF THE WORK

- A. The work to be performed under this contract is located at DHHL West Hawaii District office, Kamuela, South Kohala. Refer to the project plans for the jobsite location.
- B. Conditions: Upon award of the contract, the Contractor, at their cost, shall obtain all permits required for this project.

1.07 HOURS OF WORK

- A. Work can be performed at the construction site between 8:00 am and 4:30 pm, Monday through Friday. Submit a proposed construction schedule to Project Manager for review and approval within 14 calendar days prior to start of work. The Contractor shall coordinate their schedule with the Project Manager if rescheduling of work or intermittent work is required, such work shall be performed at no extra cost to the State. If the Contractor's obligation to pay.
- B. Contractor shall clean work areas at the end of each working shift.
 Rubbish, loose materials, etc. shall be disposed of daily. Materials shall be safely secured and stored in an area designated by the DHHL West Hawaii District Supervisor.

1.08 SAFETY

- A. The Contractor shall take the necessary precautions to protect his workers and other personnel from injuries. The rules and regulations promulgated by the Occupational Safety and Health Acts are applicable and made a part of these specifications.
- B. Barricades and warning signs shall be erected by the Contractor in the work area to properly protect all personnel in the area.

C. During the progress of the work debris, empty crates, waste, material drippings, etc., shall be removed by the Contractor at the end of each work day, and the work area shall be left clean and orderly.

1.09 <u>DISPOSAL OF EXCESS SOIL MATERIALS</u>

- A. At the Construction Manager and/or Engineers discretion, excess useable soil materials may be used as fill material for this project. Best Management Practices shall be employed at all times to control soil erosion and water pollution that may result from stockpiling activities.
- B. Off-Site Disposal of Excess Soil Material: Any excess soil material and rubbish disposed of outside the DHHL property shall be the responsibility of the Contractor. The Contractor shall make all arrangements and bear all costs involved therewith.

1.10 CONSTRUCTION STAKES, LINES AND GRADES

- A. The Contractor shall perform all construction layout and reference staking necessary for the proper control and satisfactory completion of all structures, grading, paving, drainage, sewer, water, and all other appurtenances required for the completion of the work.
- B. Existing horizontal and vertical survey control points for the project are shown on the plans. The Contractor shall verify the location of all control points prior to the start of construction.
- C. The Department will not be responsible for delays in setting stakes and marks.
- D. All control points and stakes or marks which the Project Manager may set shall be preserved by the Contractor. If such control points, stakes or marks are destroyed or disturbed by the Contractor, the cost of replacing such stakes or marks will be charged against the Contractor and deducted from payments due the Contractor.
- E. The Contractor shall be responsible for the placement and preservation of adequate ties to all control points whether established by the Contractor or by the Project Manager.

- F. All original, additional or replacement stakes, marks, references and batter-boards which may be required for the construction operations, shall be furnished, set and properly referenced by the Contractor. The Contractor shall be solely and completely responsible for the accuracy of the line and grade of all features of the work. Any errors or apparent discrepancies found in previous surveys, the plans and specifications shall be called to the Project Manager's attention by the Contractor for correction or interpretation prior to the proceeding with the work.
- G. Before construction is started on any structure which is referenced to an existing structure or topographical feature, the Contractor shall check the pertinent locations and grades of the existing structures or topographical features to determine whether the locations and grades shown on the plans are correct.
- H. All construction staking shall be performed by qualified personnel under the direct supervision of a person with an engineering background who is experienced in the direction of such work and is acceptable to the Project Manager.
- I. All stakes and markers used for control staking shall be of the same quality as used by the Department for this purpose. For slope limits, pavement edges, gutter lines, etc., where so called "working" stakes are commonly used, stakes of different quality may be acceptable.
- J. The Department may check the Contractor's control of the work at any times as the work progresses. The Contractor will be informed of the results of these checks, but the Department by doing so will in no way relieve the Contractor of his responsibility for the accuracy of the layout work. The Contractor shall at his expense correct or replace any deficient or inaccurate layout and construction work. If, as a result of these deficiencies or inaccuracies, the Department is required to make further studies, redesign, or both, all expenses incurred by the Department due to such deficiencies or inaccuracies, will be deduced from any payment due the Contractor.
- K. The Contractor shall furnish all necessary personnel, engineering equipment and supplies, materials, and transportation incidental to the accurate and satisfactory completion of this work.

Unless otherwise provided, all requirements imposed by this section and performed by the Contractor shall be considered incidental to the various contract items and not separate or additional payment will be made thereof.

1.11 SPECIAL PROJECT REQUIREMENTS

- A. Upon receipt of the Contract, the Contractor shall process and return the Contract to the DHHL office within five (5) calendar days.
- B. The State intends to issue the Notice to Proceed for the Project to the Contractor within 30 calendar days after bid opening. The Contractor shall be able to commence work on this date.

1.12 UNFORSEEN CONDITIONS ALLOWANCE

- A. Included in this project is an allowance for unforeseen conditions to be used by the engineer to pay for unknown conditions from either review of the contract documents or existing exposed conditions found at the site or anticipated from the type of work found.
- B. All unforeseen conditions that the Contractor is anticipating being compensated for must be brought to the attention of the engineer and acknowledged as an unforeseen condition that will be paid for by the State before the Contactor proceeds with his work.
- C. Work accomplished by the Contractor without prior approval by the Project Manager will be considered part of the work wand incidental to the work and no additional compensation will be allowed.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

PART 4 - MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

A. Work under this section will not be measured not paid for separately, but shall be considered incidental to and included in the bid prices for the various items of work in this project.

B. Work under this section for unforeseen conditions shall be paid under an allowance item in the Proposal Schedule. The allowance is an estimate and the Additional charges by the Contractor for overhead, coordination, profit, included in the Contractor's lump sum bid price.

SECTION 01019 - GENERAL SPECIFICATIONS

PART 1 - GENERAL

1.01 <u>GENERAL REQUIREMENTS</u>: Work shall consist of furnishing all labor, tools, materials and equipment necessary and required to construct in place complete all work as indicated on the drawings and as specified herein.

1.02 GENERAL:

- A. <u>Examination of Premises</u>: The Contractor shall contact the Project Manager and obtain permission before visiting the site.
- B. All lines and grades shall be established by a licensed surveyor, or licensed Civil Project Manager, registered in the State of Hawaii. The Contractor shall submit evidence of current and valid registration.
- C. <u>Notices</u>: The Contractor shall notify the Project Manager and give at least three (3) working days notice before starting any work.
- D. <u>Disruption of Utility Services</u>: All work related to the temporary disconnection of electrical system shall be pre-arranged with the Project Manager so that any disruption of such services will be kept to a minimum. In the event temporary power hook-up is required, the Contractor shall provide the necessary services.

E. Contractor's Operations:

- The Contractor must employ, insofar as possible, such methods and means of carrying out the work so as not to cause any interruption or interference to the facility's operations. Where the Contractor's operations would result in interruptions which would hamper the operations of the facilities, the Contractor shall rearrange the schedule of work accordingly.
- The Contractor shall maintain safe passageway to and from the facility for the user agency personnel and the public at all times.

F. Lead Paint:

1. When the project includes paint to be disturbed that was applied prior to 1980, it shall be assumed to contain lead. The Contractor shall inform its employees, subcontractors, and all other persons engaged in the project that lead containing paints are present in the existing buildings at the job site and to follow the requirements of the Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Title 12, Subtitle 8, Chapter 148, Lead Exposure in Construction, Hawaii Administrative Rules (Chapter 12-148, HAR).

G. Parking Policy for Contractor:

- 1. The Contractor and its employees will not be allowed to park in zones assigned to facility personnel.
- 2. Areas to be used by the Contractor shall be as designated by the Project Manager. Any lawn damaged by the Contractor shall be restored as instructed by the Project Manager at no cost to the State.
- H. <u>Toilet Accommodations</u>: The Contractor must supply their own toilet facilities and be responsible to keep it clean and in a sanitary condition at all times.
- I. <u>Protection of Property</u>: The Contractor shall continually maintain adequate protection of all its work from damage and shall protect all property, including but not limited to buildings, equipment, furniture, grounds, and vegetation, material, utility systems located at and adjoining the job site. The Contractor shall repair, replace or pay the expense of repair of damages resulting from its operations.
- J. <u>Use of Power Driven Equipment</u>: The Contractor is cautioned to take all necessary safety precautions to protect the facility personnel, and the public whenever power driven equipment is used.
- K. <u>Safety</u>: The Contractor shall carefully read and strictly comply with the requirements of the Hawaii Occupational Safety and Health Law, Chapter 396, Hawaii Revised Statutes, as amended, is applicable and made a part of the Contract.
- L. <u>Clean Up Premises</u>: The Contractor shall clean up and remove from premises all debris accumulated from operations as necessary or as directed. See also Section 7.25 of the General Conditions.

M. Responsibility:

- 1. The State will hold the Contractor liable for all the acts of Subcontractors and shall deal only with the prime Contractor in matters pertaining to other trades employed on the job. The Contractor shall be responsible for coordinating the work of all trades on the job.
- 2. Should the Contractor discover any discrepancy in the plans or specifications, the Contractor shall immediately notify the Project Manager before proceeding any further with the work, otherwise, the

Contractor will be held responsible for any cost involved in correction of work placed due to such discrepancy.

- N. <u>Cooperation with Other Contractors</u>: The State reserves the right at any time to contract for or otherwise perform other or additional work within the contract zone limits of this Contract. The Contractor of this project shall, to the extent ordered by the State, conduct its work so as not to interfere with or hinder the progress or completion of the work performed by other contractors.
- O. <u>Division of the Work</u>: The Divisions and Sections into which these Specifications are divided shall not be considered an accurate or complete segregation of work by trades. This also applies to all work specified within each Section.

P. Drawings and Specifications:

- 1. The Contractor shall not make alterations in the drawings and specifications. In the event the Contractor discovers any errors or discrepancies, the Contractor shall immediately notify the Project Manager in accordance with the General Conditions.
- 2. Where devices, or items, or parts thereof are referred to in the singular, it is intended that such reference shall apply to as many such devices, items or parts as are required to properly complete the work.
- 3. Specifications and drawings are prepared in abbreviated form and include incomplete sentences. Omission of words or phrases such as "the Contractor shall", "as shown on the drawings", "a", "an", and "the" are intentional. Omitted words and phrases shall be provided by inference to form complete sentences.

Q. Required Submittals:

- 1. Required submittals as specified in the Technical Sections of these specifications include one or more of the following: Shop drawings; color samples; material samples; technical data; schedules of materials; schedules of operations; guarantees; operating and maintenance manuals; and as-built drawings.
- 2. The Contractor shall make a comprehensive list of the required submittals, by Specification Section, and submit this list to the Project Manager within 15 days after notice to proceed.
- 3. <u>As-Built Drawings</u>: When as-built drawings are required for submittal, the following shall apply:

- a. As-built drawings, the intent of which is to record the actual in-place construction so that any future renovations or tie-ins can be anticipated accurately, shall be required.
- All deviations from alignments, elevations and dimensions which are stipulated on the plans shall be recorded in red on the as-built drawings.
- c. The following procedure shall be followed:
 - (1) Immediately after these changes are constructed in place, the Contractor shall record them on the field office plans.
 - (2) Within two weeks after final inspection of the project, the Contractor shall transfer the changes marked on the field office plans onto a clean copy of plans using a red pencil. Any deletions shall be so noted and redrawn as necessary. The Contractor shall stamp or mark the tracings "AS-BUILT", and also sign and date each drawing so marked.
 - (3) The Contractor shall submit the as-built drawings to the Design Consultant for review, approval and changes. After the Design Consultant approves the as-built drawings, the Design Consultant shall submit as-built drawing on velum, electronic copy of Specification in Word and drawing in AutoCad on CD ROM.
 - (4) Any as-built drawing which the Project Manager determines does not accurately record the deviation shall be corrected by the Consultant at no charges to the State for these services.

SECTION 01300 - SUBMITTALS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Shop drawings and submittals shall be made in accordance with DHHL's General Conditions, Section 5.5.1 – "SHOP DRAWINGS" and Section 6.3 – "SUBSTITUTION OF MATERIALS AND EQUIPMENT"

1.02 OTHER SUBMITTALS REQUIRED BEFORE CONSTRCTION

The Contractor shall submit the following items prior to or at the pre-construction meeting or unless otherwise noted:

1.03 SHOP DRAWINGS, SAMPLES, CATALOG CUTS, AND CERTIFICATES

A. Submittal Schedule: Prior to the submission of any shop drawings or submittals,

the Contractor shall submit to the Construction Manager and Design Consultant for review, a submittal schedule. The schedule shall identify the subject matter of each submittal, the corresponding specification section number and the proposed date of submission. During the progress of work, the Contractor shall revise and resubmit the submittal schedule as directed by the Project Manager.

B. The Contractor shall submit for review to the Construction Manager, or to a representative designated by the Project Manager, electronically or submit four (4) copies, if directed by the Project Manager of all shop drawings, samples, catalog cuts and certificates. Two (2) copies will be returned to the Contractor with information of review action. The Contractor shall submit additional quantities for their subcontractor's or supplier's use. Each shop drawing, certificate of compliance, sample, and equipment list shall be checked and certified correct by the Contractor, and shall be identified with the applicable information specified hereinafter under "Submittal Identification."

Items are to be reviewed prior to commencing fabrication or delivery of material to the job site.

C. Each copy of the drawings, certificates, catalog cuts, and lists reviewed by the Design Consultant will be stamped "REVIEW ACTION" with the appropriate action noted therein. The review of the Design Consultant shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory. Acceptance of such drawings will not relieve the Contractor the responsibility of conforming to the contract drawings and specifications or for any error or omission which may exist as the Contractor shall be responsible for the

dimensions and design of adequate connections, details, and satisfactory construction of all work. Each shop drawing submitted for review shall have, in the lower right-hand corner just above title, a white space 4" x 4" in which the Design Consultant can place the stamp and indicate action taken. The Contractor shall also inform their subcontractors to provide this space in their preparation of shop drawings.

1.07 TEST REPORTS

B.

Six copies of test reports for any material used in this Contract shall be submitted when specified or required by the Project Manager.

1.08 <u>SUBMITTAL IDENTIFICATION</u>

| A. | To avoid rejection and to clarify each submittal, the General Contractor sha | l |
|----|--|---|
| | have a rubber stamp made up in the following format: | |

| CONTRACTOR NAME: |
|---|
| PROJECT: |
| IFB NO: |
| |
| THIS SUBMITTAL HAS BEEN CHECKED BY THIS GENERAL CONTRACTOR. IT IS CERTIFIED CORRECT, COMPLETE, AND IN COMPLIANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS. ALL AFFECTED CONTRACTORS AND SUPPLIERS ARE AWARE OF, AND WILL INTEGRATE THIS SUBMITTAL INTO THEIR OWN WORK. |
| DATE RECEIVED |
| SPECIFICATION SECTION |
| SPECIFICATION PARAGRAPH |
| DRAWING NUMBER |
| SUBCONTRACTOR NAME |
| SUPPLIER NAME |
| MANUFACTURER NAME |
| CERTIFIED BY: |

- C. This stamp "filled in" should appear on each reproducible shop drawing, on the cover sheet of copies of test and mill reports, certificates of compliance, catalog cuts, brochures, etc. The stamp should be placed on a heavy stock paper merchandise (approximately 3" x 6") and one tag tied to each sample submitted for approval. The tag on the samples should state what the sample is, so that if the tag is accidentally separated from the sample they can be matched up again.
 - The back of this tag will be used by the Project Manager for receipt, approval, and log stamp for any comments that relates to the sample.
- D. Submission Number: Each submission is to be sequentially numbered in the space provided in the Contractor's stamp. Correspondence and transmittal will refer to this number.
- E. The Contractor shall ensure that all submittals, including shop drawings, are compete and in conformance to the requirements of the Contract specifications prior to submissions to the State for review and acceptance. Incomplete submittals will not be processed by the State and returned to the Contractor for correction. Any cost impacts and delays in the Project schedule as a result of incomplete submittals shall be the responsibility of the Contactor.

1.10 GUARANTEES

Guarantee periods shall start at the time of acceptance in writing by the State. All guarantees and warranties shall be made out to the "State of Hawaii." Supplier and subcontractor guarantees shall be co-signed by the Contractor. The Contractor is solely responsible for coincidence or non-coincidence of factory warranties or equipment guarantees, and the Contractor's own warranties and guarantees as required by the contract. The Contractor is solely responsible for scheduling and coordinating the installation of equipment and materials so as to take maximum advantage of factory warranties.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

PART 4 – MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

NO PROGRESS PAYMENT WILL BE PAID UNTIL ALL REQUIRED SUBMITTALS ARE SUBMITTED IN THE REQUIRED TIME.

Work under this section will not be measured nor paid for separately, but shall be considered incidental to and included in the bid prices for the various items of work in this project.

SECTION 01310 - CONSTRUCTION SCHEDULES & SCHEDULES OF VALUES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Construction Schedules and Schedules of Values shall be made in accordance with Section 7.22 – "CONSTRUCTION SCHEDULES" of the DHHL General Conditions.

1.02 DETAILED CONSTRUCTION SCHEDULE – CRITICAL PATH METHOD (CPM)

Α. Contractor shall prepare and submit a detail Detailed Construction Schedule to the Project Manager for review, not later than thirty (30) calendar days after the Notice of Award or upon earlier written instructions from the DHHL. The detailed construction schedule shall be based on a detailed critical path analysis of construction activities and sequence of operations needed for the orderly performance and completion of any separable parts of any work and all work in accordance with the Contract. The schedule shall be Critical Path Method (CPM) type in the form of an arrow diagram and activity listing or comprehensive bar graph. The network diagram shall show in detail and in orderly sequence all activities on a time scale, their description, durations and dependencies, necessary and required to complete all work and any separable parts thereof. If requested by the DHHL, the Contractor shall participate in a preliminary meeting to discuss the proposed schedule and requirements prior to submission of the schedule.

The schedule shall show in detail the following information for each activity.

- 1. Identification by code numbers and description;
- 2. Duration time scaled by weeks;
- 3. Craft and Equipment;
- 4. Earliest start and early finish dates;
- 5. Latest start and late finish dates;
- 6. Total and free float time; and
- 7. Highlighted Critical Path

"Float" means the length of time between the early start date and the late start date, or the early finish date and late finish date for any of the activities noted on the **critical path method** (**CPM**) Schedule.

The "Critical Path" is made up of activities which control the total length of the project. It is by definition, the longest path through the schedule. For this project, a critical activity shall be any activity with less than five (5) days of total float.

Non-work days (e.g. Holidays, exclusionary non-work days).

- В. The detail construction schedule shall be complete in all respects, covering in addition to activities at the site of work, off-site activities such as design. fabrication, and procurement of equipment; the scheduled delivery dates of such equipment; submittal and approval of shop drawings and samples; ordering and delivery of materials; inspections; and testing. The schedule shall also include a manpower forecast by crafts. The detailed construction schedule shall be supplemented by a three (3) week schedule prepared by the Contractor and submitted to the Construction Manager & Project Manager on a weekly basis.
- C. Upon completion of the DHHL's review, the Contractor shall amend the schedule as necessary to reflect comments made by the DHHL. necessary, the Contractor shall participate in a meeting with the DHHL to discuss the proposed schedule and changes required. The Contractor shall submit the revised schedule and cash flow for approval to the DHHL within seven (7) calendar days after receipt of the DHHL's comments

The schedule shall be kept up to date, taking into account the actual progress of work and shall be updated if necessary, every thirty (30) calendar days. The updated schedule shall, as determined by the DHHL Project Manager, be sufficient to meet the requirements for the completion of the separable parts of work and the entire projects as set forth in the contract. Upon commencing work, the Contractor shall submit at the start of each week to the DHHL Project Manager for review, a detailed two (2) week construction schedule.

D. If at any time during the progress of the Work, the Contractor's actual progress appears to the Project Manager to be inadequate to meet the requirements of the contract, the Project Manager will notify the Contractor of such imminent or actual noncompliance with the contract. The Contractor shall thereupon take such steps as may be necessary to improve his profess and the Project Manager may require an increase in the labor force, the number of shifts, and/or overtime operations, days or work and/or the amount of construction plants all without additional cost to the State. Neither such notice by the Project Manager nor the Project Manager's failure to issue such notice shall relieve the Contractor from his obligation to achieve the quality of work and rate of profess required by the Contract. Failure of the Contractor to comply with instructions of the Project Manager under these provisions may be grounds for determination by the State that the Contractor is not prosecuting work with such diligence as will assure completion within the time specified. Upon such determination, the State may employ labor and equipment and charge the Contractor for the cost thereof, including depreciation for plant and equipment or may terminate the

Contractor's right to proceed with the performance of the contract, or any separable part thereof, in accordance with the applicable provisions of the contract.

- E. The Contractor shall submit the schedule to the Project Manager in Microsoft Project Format (.mpp) and Adobe PDF Format (PDF). The Contractor shall submit a narrative explaining the reasoning behind the construction of the schedule including but not limited to the reasons for durations, sequence of work, and a description of all critical path items. The narrative for each updated schedule shall outline all changes to the schedule and include the justification for each change.
- F. Use the approved schedule for planning, organizing and directing the work, for reporting progress, and for requesting payment for the work completed. Do not make changes to the approved schedule without written approval of the DHHL.
- G. Should changes to the schedule be desired, submit a request in writing to the DHHL and indicate the reason for the proposed change. Should the DHHL consider the change to be major, the DHHL may require the Contractor to revise and resubmit the schedule for approval at no additional cost to the DHHL. The Contractor shall mitigate the impact of all changes by re-sequencing activities, duration of time, or resources utilizing all available float.
 - A change shall be considered major if, in the opinion of the DHHL, the change may affect the substantial completion date or other contractual and milestone dates.
 - 2. Minor changes are those that only affect activities with adequate float time.
- H. Once the schedule has been approved by the DHHL, the Contractor shall furnish to the DHHL one (1) electric copy of the schedule within seven (7) calendar days.
- I. Throughout the duration of the project, the DHHL reserves the right to request more detailed breakdowns of activities, logic, and schedule submittals from the Contractor at no additional cost to the DHHL.
- J. Updated schedules shall be prepared and submitted to the DHHL at monthly intervals or as directed by the DHHL. The schedule shall reflect all changes occurring since the last update including the following:
 - 1. Activities started and completed during the previous period.

- 2. The estimated duration to complete each activity which was started but not completed.
- 3. Percentage of cost payable for each activity.
- 4. Notifications and pending proposed changes.
- 5. Narrative report describing current and anticipated problem areas and/or delaying factors with their impact together with an explanation of corrective actions taken or proposed.
- K. Failure on the part of the Contractor to submit updated schedules may be grounds for the DHHL to withhold progress payments for items noted on the schedule.
- L. Contractor shall prosecute the work according to the CPM Schedule. The DHHL shall rely on the approved Contractor's CPM Schedule and regular updates for planning and coordination. The DHHL's review of the Contractor's CPM Construction Schedule does not relieve the Contractor of its obligation to complete the work within the allotted contract time. Nor does the review grant, reject or in any other way act on the Contractor's requests for adjustment(s) to complete remaining contract work, or claims of additional compensation. Such requests shall be processed in accordance with other relevant provisions of the contract.
- M. If the DHHL issues a Field Order or Change Order that affects the sequence or duration of work activities noted on the construction progress schedule, the Contractor shall promptly update the schedule. This shall be accomplished by adding, deleting or revising the work activities noted or changing the logic in the schedule to show the Contractor's plan for incorporating the change into the flow or work. All Change Orders and Time Extension requests that affect the construction schedule shall be evaluated based on their impact on the approved Construction Schedule.
- N. If the current work is behind schedule or projected to be behind schedule, such a negative float on a critical activity and/or inability to meet the Contract Completion Date, the DHHL may require the Contractor, at the Contractor's cost, to take remedial measures to get the project back on schedule. This may require increasing the work force, working, overtime and weekends, air freighting materials, or other similar actions.
- O. If at any time the DHHL determines that any critical activity has fallen behind the CPM schedule by fifteen (15) calendar days or more, Contractor shall submit a remedial plan to recapture the lost schedule time. Include a

revised schedule. Furnish the remedial plan no later than seven (7) calendar days from DHHL's notification.

1.03 SCHEDULE OF VALUES

- A. The Contractor shall submit the Schedule of Values to the Project Manager for review, no later than thirty (30) calendar days after award of the Contract.
- B. Format and Content: Use the Project Specifications table of contents as a guide to establish the format for the Schedule of Values. Provide at least one line item for each Specification Section. Provide a breakdown of the contract sum in sufficient detail to facilitate continued evaluation of Applications for Payment and progress reports. Break principle work or subcontract amounts down into several smaller identifiable items of work.
- C. Identification: Include the following Project identification on the schedule of values:
 - 1. Project name and location
 - 2. Project number
 - 3. Contractor's name and address
 - 4. Contract No.
 - 5. Date of submittal
- D. Arrange the schedule of Values in tabular form with separate columns to indicate the following items listed:
 - 1. Related Specification Section or Division
 - 2. Description of work
 - 3. Dollar value and percent complete
- E. Correlate line items in the Schedule of Values with other required administrative schedules and forms including;
 - 1. Construction Schedule
 - 2. Application for Payment forms including continuation sheets
 - 3. List of Subcontractors
 - 4. List of principle suppliers and fabricators
 - 5. Schedule of submittals
- F. Round amount to nearest whole dollar; the total shall equal the contract sum.
- G. Provide a separate line item in the Schedule of Values for each part of the work where Applications for Payment may include materials or equipment, purchased, fabricated or stored, but not yet installed.

H. Schedule Updating: Update and resubmit the Schedule of Values prior to the next Applications for Payment or when Charge Orders or Construction Change Directives result in a change in the Contract Sum.

SECTION 01340 - DRAWINGS TO BE FURNISHED BY CONTRACTOR

The following shall supplement the General Conditions.

1.01 RELATED DOCUMENTS

Shop drawings and submittals shall be made in accordance with Section 5.5.1 – "SHOP DRAWINGS" and Other Submittals of the DHHL's General Conditions.

1.02 The Contractor's stamp and verification of drawings shall consist of the following format: (Project Title) (IFB #) and (Contract #) (Contractor's Name) (Signature) _____(Date) This submittal has been checked and verified in accordance with the requirements of the contract documents and any equipment submitted herewith can be installed in the allocated spaces. Submittal No. _____ Specification Section No. Paragraph No. Contract Drawing Ref. _____ Subcontractor ____ Supplier ____ Manufacturer _____ Exceptions Taken: Yes No Details of Exception _____

- 1.03 The person signing the Contractor's submittal stamp shall be the one designated under the contract agreement with the DHHL. The signature shall be in original ink. Stamped signature will not be acceptable. Submittal for shall be completely filled out, signed and dated.
- 1.04 All changes made to the submittal drawings by the Contractor in the form of written or typewritten markings shall be initialed and dated by the Contractor.
- 1.05 When the Contractor takes any exception to the submittal drawings, such exception shall be brought to the attention of the Engineer. The exception shall be submitted with the shop drawings together with sufficient details and justifications.
- 1.06 Within 30 days after receipt of notice to proceed, the Contractor shall submit to the Engineer in duplicate, a schedule, listing all items that will be submitted for review and approval action by the DHHL. The schedule shall include, among other things, a list of shop drawings and manufacturer's literature, certificates of compliance, material samples, and guarantees. The schedule shall indicate the type of item, contract requirement reference; the Contractor's scheduled date for submitting the above items and projected needs for approval answers and procurement dates. In preparing the schedule, adequate time (minimum of 15 days) shall be allowed for review and approval; additional time shall be allowed to provide for possible resubmittal. Also, the scheduling shall be coordinated with the approved progress schedule.
- 1.07 The Contractor shall maintain at the job site two sets of full size contract drawings, marking them in red to show all variations between the construction actually provided and that indicated or specified in the contract documents, including buried or concealed herein, or where variations in scope or character of work from that of the original contract are authorized, the drawings shall be marked to define the construction actually provided. Where equipment installation is involved, the size, manufacturer's name, model number and power input or output characteristics are applicable shall be shown on the as-built drawings. The representations of such changes shall conform to standard and detail as necessary to clearly portray the as-built construction. The drawings shall be maintained and updated on a daily basis.

Monthly and final payments of the Contactor shall be subject to prior approval of the drawings.

On completion of the work, both sets of marked-up drawings shall be delivered to the Engineer, and shall be subject to his approval before acceptance.

SECTION 01400 – QUALITY REQUIREMENTS

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. The Contractor shall establish, provide, and maintain an effective Quality Control Program that details the methods and procedures that will be taken to assure that all materials and completed construction required by this contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors. Although guidelines are established and certain minimum requirements are specified here in and elsewhere in the contract technical specifications, the Contractor shall assume full responsibility for accomplishing the stated purpose.
- B. The intent of this section is to enable the Contractor to establish a necessary level of control that will:
 - 1. Adequately provide for the production of acceptable quality materials.
 - 2. Provide sufficient information to assure both the Contractor and the Engineer that the specification requirements can be met.
 - 3. Allow the Contractor as much latitude as possible to develop his or her own standard of control.
- C. The Contractor shall be prepared to discuss and present, at the preconstruction conference, his/her understanding of the quality control requirements. The Contractor shall not begin any construction or production of materials to be incorporated into the completed work until the Quality Control Program has been reviewed and accepted by the Engineer. No partial payment will be made for materials subject to specific quality control requirement until the Quality Control Program has been reviewed and approved by the Engineer.
- D. The quality control requirements contained in this section and elsewhere in the contract technical specifications are in addition to and separate from the acceptance testing requirements. Acceptance testing requirements are the responsibility of the Engineer. All inspection and test reports shall be stamped and signed by a licensed professional engineer.

1.02 CRIPTION OF PROGRAM

A. General Description. The Contractor shall establish a Quality Control Program to perform work quality inspections and control testing on all materials and items of work required by the technical specifications,

including those performed by subcontractors. This program shall ensure conformance to applicable specifications and plans with respect to materials, workmanship, constructions, finish, and functional performance. The program shall be effective for control of all construction work performed under this Contract, in addition to other requirements of this section, and any other activities deemed necessary by the Contractor to establish an effective level of quality control.

- B. Quality Control Program. The Contractor shall describe the Quality Control Program in a written document which shall be reviewed by the Engineer prior to the start of any production, construction, or off-site fabrication. The written Quality Control Program shall be submitted to the Engineer for review thirty (30) calendar days after the date of award.
- C. The Quality Control Program shall be organized to address, as a minimum, the following items:
 - 1. Quality control organization;
 - 2. Submittals schedule;
 - 3. Inspection Requirements;
 - 4. Quality control testing plan;
 - 5. Documentation of quality control activities; and
 - 6. Requirements for corrective action when quality control and/or acceptance criteria are not met;
 - 7. A listing of the definable features of work for the project.

The Contractor is encouraged to add any additional elements to the Quality Control Program that he/she deems necessary to adequately control all production and/or construction processes required by this contract.

1.03 QUALITY CONTROL ORGANIZATION

- A. The Contractor's Quality Control Program shall be implemented by the establishment of a separate organization that is not a part of the production organization. An organizational chart shall be developed to show all quality control personnel and how these personnel integrate with other management/production and construction functions and personnel. The organizational chart shall identify all quality control staff by name and function, and shall indicate the total staff required to implement all elements of the program, including work quality inspection and control testing on materials for each item or work. At the top of the chart, an overall Contractor Quality Control System Manager, CQCSM, shall be named and his/her subordinates shall follow thereafter.
- B. The quality control organization shall consist of the following minimum personnel:

1. Contractor Quality Control System Manager. The CQCSM shall be a Licensed Engineer of the Contractor, or a consultant engaged by the Contractor. The CQCSM shall have a minimum of 10 years of experience in airport and/or paving and building construction and shall have had prior quality control experience on a project of comparable size and scope as the contract. The CQCSM shall be on the project full time and shall have production duties. The CQCSM shall NOT be the point of contact for the production organization.

The CQCSM shall have full authority to institute any and all actions necessary for the successful implementation of the Quality Control Program to ensure compliance with the contract plans and technical specifications including authority to independently stop any work not in compliance with the contract. The CQCSM shall report directly to a responsible officer of the construction firm, such officer not being the project Superintendent or Foreman.

2. Quality Control Technicians. A sufficient number of quality control technicians necessary to adequately implement the Quality Control Program shall be provided. These personnel shall either be an engineer, engineering technicians, or experienced craftsman with qualifications in the appropriate fields and shall have a minimum of 7 years of experience in their area of expertise. The Quality Control Technician shall be on the project full time and shall have no production duties.

The quality control technicians shall report directly to the CQCSM and shall perform the following functions.

- a. Inspection of all materials, construction, plant, and equipment for conformance to the technical specifications, and as required by Section 1.05.
- b. Performance of quality control tests as required by the Contractor's program.
- 3. Staffing. The Contractor shall provide sufficient qualified control personnel to monitor each work activity at all times. The scheduling and coordinating of all inspection and testing must match the type and pace of work activity. The Quality Control Program shall state where different technicians will be required for different work elements

All personnel shown on the organizational chart shall have, in resume form, all information regarding their education, any licenses, their present position, previous work experience, etc., included in the Quality Control Program written documentation. These resumes shall be verified by the CQCSM.

1.04 SUBMITTALS SCHEDULE

The Contractor shall submit a detailed listing of all submittals (e.g., mix designs, material certifications, and color samples) and shop drawings required by the technical specifications. The listing can be developed in a spreadsheet format and shall include:

- 1. Specification item number.
- 2. Item description.
- 3. Description of submittal.
- 4. Specification paragraph requiring submittal; and
- 5. Scheduled date of submittal.

1.05 INSPECTION REQUIREMENTS

- A. Quality control inspection functions shall be organized to provide inspections for all definable features of work, as detailed below. All inspections shall be documented by the Contractor as specified by Section 1.07.
- B. Inspections shall be performed daily to ensure continuing compliance with contract requirements until completion of the particular feature of work.
- C. Before any definable feature of work is started, the CQCSM shall notify the Engineer of such work at least 48 hours in advance. Upon notification, the Engineer shall determine if a meeting shall be held to discuss the condition of the work area, material and equipment status, what is to be expected and any questions or possible problems. No definable feature work shall commence without the consent of the Engineer and State Project Manager.

1.06 QUALITY CONTROL TESTING PLAN

- A. As part of the overall Quality Control Program, the Contractor shall implement a quality control testing plan that the Contractor deems necessary to adequately control production and/or construction processes.
- B. The testing plan can be developed in a spreadsheet fashion and shall, as a minimum, include the following:
 - 1. Specification item number;
 - 2. Item description (e.g., plant control, concrete cylinder tests);
 - 3. Test type (e.g., concrete compressive strength);

- 4. Test standard (e.g., ASTM or AASHTO test number, as applicable);
- 5. Test results and adjustments made (e.g., to meet specification tolerance requirements; and,)
- 6. Responsibility (e.g., plant technician, independent lab).
- C. The testing plan shall contain a statistically-based procedure of random sampling for acquiring test samples in accordance with ADTM D 3665.
- D. All quality control test results shall be documented by the Contractor as required by Article 1.07 of this Section.

1.07 DOCUMENTATION

- A. The Contractor shall maintain current quality control records of all inspections and tests performed. These records shall include factual evidence that inspections or tests have been performed, including type, results of inspections or tests; nature of defects, deviations, causes for rejection, etc.; proposed remedial action; and /or corrective actions taken.
- B. These records must over both conforming and defective or deficient features and must include a statement that all supplies and materials incorporated in the work are in full compliance with the terms of the contract. Legible copies of these records shall be furnished to the Engineer.
- C. Specific Contractor quality control records required for the contract shall include, but are not necessarily limited to, the following records:
 - 1. Daily Inspection Reports. Each Contractor quality control technician shall maintain a daily log of all inspections performed for both Contractor and Subcontractor operations on a form acceptable to the Engineer. These technician's daily reports shall provide factual evidence that continuous quality control inspections have been performed and shall, as a minimum include the following:
 - a. Technical specification item number and description and location of work performed;
 - b. Compliance with approved submittals;
 - c. Proper storage of materials and equipment;
 - d. Proper operation of all equipment;
 - e. Adherence to plans and technical specifications;
 - f. Review of quality control tests; and
 - g. Safety inspection.

The daily inspection reports shall identify inspections conducted, results of inspections, location and nature of defects found, causes for rejection, and remedial or corrective actions or proposed.

The daily inspection reports shall be stamped and signed by the licensed professional engineer CQCSM. The Engineer shall be provided at least one copy of each daily inspection report on the work day following the day of record.

- 2. Test Reports. The Contractor shall be responsible for establishing a system which will record all off-site and on-site control test results. Test reports shall document the following information:
 - a. Technical specification item number and description;
 - b. Test designation;
 - c. Location;
 - d. Date of test;
 - e. Control requirements;
 - f. Test results;
 - g. Causes for rejection;
 - h. Remedial action and retest results.

Test results shall be submitted to the Engineer within one (1) week of testing. The test reports shall be stamped and signed by the licensed professional engineer CQCSM.

1.08 CORRECTIVE ACTION REQUIREMENTS

- A. The Quality Control Program shall indicate the appropriate action to be taken when a process is deemed, or believed, to be out of control (out of tolerance) and detail what action will be taken to bring the process into control. The requirements for corrective action shall include both general requirements for operation of the Quality Control Program as a whole, and for individual items of work contained in the technical specifications.
- B. The Quality Control Program shall detail how the results of quality control inspections and tests will be used for determining the need for corrective action and shall contain clear sets of rules to gauge when a process is out of control and the type of correction to be taken to regain process control.

1.09 SURVEILLANCE BY THE ENGINEER AND STATE PROJECT MANAGER

- A. All items of material and equipment shall be subject to surveillance by the Engineer at the point of production, manufacture or shipment.
- B. Off-site or on-site surveillance by the Engineer does not relieve the Contractor of performing quality control inspections of either the Contractor's or subcontractor's work.

1.10 NONCOMPLIANCE

- A. The Engineer or State Project Manager will notify the Contractor of any noncompliance with any of the foregoing requirements. The /contractor shall, after receipt of such notice, immediately take corrective action. Any notice, when delivered by the authorized representative at the sit5e of the work, shall be considered sufficient notice.
- B. In cases where quality control activities do not comply with either the Contractor's Quality Control Program or the Contract provisions, or where the Contractor fails to properly operate and maintain an effective Quality Control Program, as determined by the Engineer or State Project Manager, the Engineer or State Project Manager, the Engineer or State Project Manager May:
 - 1. Order the Contractor to replace ineffective or unqualified quality control personnel or subcontractors in accordance with Section 8.5 of the General Provisions
 - 2. Order the Contractor to stop operations in accordance with Section 8.6 of the General Provisions.
 - 3. Determine work performed by the Contractor during periods of noncompliance to be unacceptable and subject to removal or non-payment in accordance with Section 5.8 of the General Provisions.

PART 4 – MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

Work under this section will not be measured nor paid for separately, but shall be considered incidental to and included in the prices bid for the various items of work in this project.

SECTION 01430 - ENVIRONMENTAL PROTECTION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Environmental Protection shall be made in accordance with Section 40 – "POLLUTION CONTROL" of the State's General Conditions, AG-008 103D.

- 1.02 GENERAL: This section covers prevention of environmental pollution and damage during and as the result of construction operations under this contract and for those measures set forth in other sections of the TECHNICAL SPECIFICATIONS. For the purpose of this specification, environmental pollution and damage is defined as the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to utility of the environment for aesthetic, cultural and/or historical purposes. The control of environmental pollution and damage requires consideration of air, water, and land, and includes management of visual aesthetics, noise, solid waste, as well as other pollutants. It is the responsibility of the Contractor to investigate and comply with all applicable Federal, State and County laws and regulations concerning environmental protection and pollution control, and to secure all necessary permits.
- 1.03 <u>SUBMITTALS:</u> The Contractor shall submit an Environmental Protection Plan in accordance with the provisions as herein specified. Environmental Protection Pan shall include but not be limited to the following:
 - A. Methods for protection of features to be preserved within authorized work areas. The Contractor shall prepare a listing of methods to protect resources needing protection; i.e., trees, shrubs, vines, grasses and ground cover, landscape features, air and water quality, fish and wildlife, soil, historical, archaeological, and cultural resources.
 - B. Procedures to be implemented to provide the required environmental protection and to comply with all applicable laws and regulations. The Contractor shall set out the procedures to be followed to correct pollution of the environment due to accident, natural causes, or failure to follow the procedures set out in accordance with the environmental protection plan.
 - C. Drawings showing locations of any proposed temporary excavations or embankments for haul roads, stream crossings, material storage areas, structures, sanitary facilities, and stockpiles or spoil material.
 - D. Environmental monitoring plans for the job site, including land, water, air and noise monitoring.
 - E. Methods of protecting surface and groundwater during construction activities.

- F. Training for his personnel during the construction period.
- 1.04 <u>IMPLEMENTATION:</u> After receipt of Notice to Proceed, the Contractor shall submit in writing the above environmental protection plan for approval of the Project Manager within 5 days after Notice to Proceed. Approval of the contractor's plan will not relieve the Contractor of his responsibility for adequate and continuing control of pollutants and their environmental protection measures.
- 1.05 <u>SUBCONTRACTORS:</u> Assurance of compliance with this section by subcontractors will be the responsibility of the Contractor.
- 1.06 NOTIFICATION: The Project Manager will notify the Contractor in writing of any observed noncompliance with the aforementioned Federal, State or local laws or regulations, permits, and other elements of the Contractor's environmental protection plan. The Contractor shall, after receipt of such notice, inform the Project Manager of proposed corrective action and take such action as may be approved. If the Contractor fails to comply promptly, the Project Manager may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No time extensions shall be granted or costs or damages allowed to the Contractor for any such suspension.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

- 3.01 <u>PROTECTION OF ENVIRONMENTAL RESOURCES:</u> The environmental resources within the project boundaries and those affected outside the limits of permanent work under this contract shall be protected during the entire period of this contract. The Contractor shall confine his activities to areas defined by the drawings and specifications.
- 3.02 PROTECTION OF LAND RESOURCES: Prior to the beginning of any construction, the Contractor shall identify all land resources to be preserved within the Contractor's work area. Except in areas indicated on the drawings or specified to be cleared, the Contractor shall not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil, and land forms without special permission from the Project Manager. No ropes, cables, or guys shall be fastened to or attached to any trees for anchorage unless specifically authorized. Where such special emergency use is permitted, the Contractor shall provide effective protection for land and vegetation resources at all times as defined in the following subparagraphs.
 - A. <u>Work Area Limits:</u> Prior to any construction, the Contractor shall mark the areas that are not required to accomplish all work to be performed under this contract. Isolated areas within the general work area, which are to be saved and protected, shall also be marked or fenced. Monuments and

markers shall be protected before construction operations commence. Where construction operations are to be conducted during darkness, the markers shall be visible. The Contractor shall convey to his personnel the purpose of marking and/or protection of all necessary objects.

- B. <u>Protection of Landscape:</u> Trees, shrubs, vines, grasses, land forms and other landscape features indicated and defined on the drawings to be preserved shall be clearly identified by marking, fencing, or wrapping with boards, or any other approved techniques.
- C. Reduction of Exposure of Unprotected Erodible Soils: Earthwork brought to final grade shall be finished as indicated and specified. Side slopes and back slopes shall be protected as soon as practicable upon completion of rough grading. All earthwork shall be planned and conducted to minimize the duration of exposure of unprotected soils. Runoff from the construction site shall be controlled by construction of diversion ditches, benches, and berms to retard and divert runoff to protected drainage courses.
- D. <u>Disposal of Solid Waste by Removal From State Property:</u> The Contractor shall transport all solid waste off State property and dispose of it in compliance with Federal, State and local requirements for solid waste disposal.
- E. <u>Disposal of Chemical Waste:</u> Chemical waste shall be stored in corrosion resistant containers, removed from the work area and disposed of in accordance with Federal, State, and local regulations.
- 3.03 <u>PROTECTION OF WATER RESOURCES:</u> The Contractor shall keep construction activities under surveillance, management and control to avoid pollution of surface and groundwaters. Special management techniques as shall be implemented to control water pollution.
 - A. <u>Protection of Waterways:</u> Construction of drainage facilities as well as performance of other contract work which will contribute to the control of siltation shall be carried out in conjunction with the earthwork operations or as soon as thereafter as is practicable.

Prior to or during any suspension of construction operations for any appreciable length of time, the Contractor shall provide for any temporary erosion control measures deemed necessary. Such measures shall be continued until the permanent drainage facilities have been constructed and when called for, until the protective ground cover is sufficiently established to be an effective erosion deterrent. Should such measures fail and an appreciable quantity of material begins to erode into the natural waterway, the Contractor shall act immediately to bring the siltation under control.

B. <u>Pollution:</u> The Contractor shall exercise every reasonable precaution throughout the life if the project to prevent pollution of rivers, streams or impoundments. Pollutants such as chemicals, fuels, lubricants, bitumens, raw sewage and other harmful waste shall not be discharged into or alongside of the stream, or into natural or manmade channels leading thereto. The Contractor shall also comply with the applicable regulations of the State Department of Land and Natural Resources and other statutes relating to the prevention and abatement of pollution.

The Contractor shall conduct his operations near harbors, bays, swimming and water recreation areas, to avoid and minimize pollution. He shall comply with the applicable regulations of the United States Department of Interior, State Department of Health and other authority having jurisdiction.

Monitoring of water areas affected by construction activities shall be the responsibility of the Contractor. All water areas affected by construction activities shall be monitored by the Contractor.

- 3.04 <u>PROTECTION OF FISH AND WILDLIFE RESOURCES:</u> The Contractor shall keep construction activities under surveillance, management and control to minimize interference with, disturbance to and damage of fish and wildlife.
- 3.05 <u>PROTECTION OF AIR RESOURCES:</u> The Contractor shall keep construction activities under surveillance, management and control to minimize pollution of air resources. All activities, equipment, processed, and work operated or performed by the Contractor in accomplishing the specified construction shall be in strict accordance with the State of Hawaii Public Health Regulations, Chapter 43, "Air Pollution Control." Special management techniques as set out below shall be implemented to control air pollution by the construction activities, which are included in the contract.
 - A. Particulates: Dust particles, aerosols, and gaseous by-products from all construction activities and processing and preparation of materials shall be controlled at all times, including weekends, holidays and hours when work is not in progress. The Contractor shall maintain all excavations, stockpiles, haul roads, permanent and temporary access roads, plant sites, spoil areas, borrow areas, and all other work areas within or outside the project boundaries free from particulates which would cause the air pollution standards mentioned above to be exceeded or which would cause a hazard or a nuisance. Sprinkling or other methods approved by the Project Manager will be permitted to control particulates in the work area. Sprinkling, to be efficient, must be repeated at such intervals as to keep the disturbed area damp at all times. The Contractor must have sufficient competent equipment available to accomplish this task. Particulate control shall be performed as the work proceeds and whenever a particulate nuisance or hazard occurs.

- B. Hydrocarbons and carbon monoxide emissions from equipment shall be controlled to Federal and State allowable limits at all times.
- C. Odors shall be controlled at all times for all construction activities, processing and preparation of materials.
- D. Monitoring of air quality shall be the responsibility of the Contractor. All air areas affected by the construction activities shall be monitored by the Contractor.
- 3.06 PROTECTION FROM SOUND INTRUSIONS: The Contractor shall adhere to the requirements of the Department of Health and shall implement acceptable noise abatement methods to minimize the construction noise level. Noise shall be kept within acceptable levels at all times in conformance with Title II, Administration Rules, Chapter 43, Community Noise Control, State Department of Health, Public Health Regulations. The Contractor shall obtain the pay for community noise permit from the State Department of Health when the construction equipment or other devices emit noise at levels exceeding the allowable limits.

All internal combustion engine-powered equipment shall have mufflers to minimize noise and shall be properly maintained to reduce noise to acceptable levels.

- 3.07 <u>POST CONSTRUCTION CLEANUP:</u> The Contractor shall clean up areas used for construction.
- 3.08 <u>RESTORATION OF LANDSCAPE DAMAGE:</u> The Contractor shall restore all landscape features damaged or destroyed during construction operations outside the limits of the approved work areas. Such restoration shall be in accordance with the plan submitted for approval by the Project Manager. This work will be accomplished at the Contractor's expense.
- 3.09 MAINTENANCE OF POLLUTION CONTROL FACILITIES: The Contractor shall maintain all constructed facilities and portable pollution control devices for the duration of the contract or for that length of time construction activities create the particular pollutant.
- 3.10 TRAINING OF CONTRACTOR PERSONNEL IN POLLUTION CONTROL: The Contractor shall train his personnel in all phases of environmental protection. The training shall include methods of detecting and avoiding pollution, familiarization with pollution standards, both statutory and contractual, and installation and care of facilities (vegetative covers and instruments required for monitoring purposes) to ensure adequate and continuous environmental pollution control.

SECTION 01440 - ARCHAEOLOGICAL FINDINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Archaeological Finds shall be made in accordance with Section 7.18 -"ARCHAEOLOGICAL SITES" of DHHL'S General Conditions.

PRESERVATION AND RECOVERY OF HISTORICAL, ARCHAEOLOGICAL. AND CULTURAL RESOURCES:

Existing historical, archaeological, and cultural resources within the Contractor's work area will be so designated by the Project Manager if any have been identified. The Contractor shall take precautions to preserve all such resources as they existed at the time they were pointed out to him. The Contractor shall provide and install all protection for these resources so designated and shall be responsible for their preservation during this contract. If during excavation or other construction activities in areas with existing or known resources, as well as in any other work area, any previously unidentified or unanticipated resources are discovered or found, all activities that may damage or alter such resources shall be temporarily suspended. Such temporary suspension of work shall not be attributable to the Contractor. These resources of cultural remains (prehistoric or historic surface or subsurface) include but are not limited to: any human skeletal remains or burials; artifacts; shell, bone, charcoal, or other deposits; rocks or coral alignments, parings, wall, or other constructed features; and any indication or agricultural or other uses. Upon such discovery or find, the Contractor shall immediately notify the Project Manager. When so notified, the Project Manager will notify the State Historic Preservation Officer (SHPO) for further direction.

As directed by the Project Manager, the Contractor may be allowed to continue any operation which would not further disturb the site(s); however, all work within the protected area shall be suspended until the Project Manager is notified by the SHPO that all investigations or salvage operations have been completed.

<u>SECTION 01525 – SAFETY REQUIREMENTS</u>

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Safety Requirements shall be made in accordance with Section 7.16 – "SATITRY, HEALTH AND SAFETY PROVISIONS" of DHHL'S General Conditions.

1.02 <u>REFERENCES</u>: The latest publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

A. ANSI A10.14 – Construction and Demolition Operations – Requirements for Safety Belts, Harnesses, Lanyards and Lifelines for Construction and Demolition Use.

1.03 SAFETY

- A. The Contractor shall take the necessary precautions to protect his workers and other personnel from injuries. The rules and regulations promulgated by the Occupational Safety and Health Acts are applicable and made a part of these specifications.
- B. During the progress of the work debris, empty crates, waste, material drippings, etc., shall be removed by the Contractor at the end of each work day, and the work area shall be left clean and orderly.

SECTION 01530 - BARRICADES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Barricades shall be made in accordance with Section 7.16 – "SATITRY, HEALTH AND SAFETY PROVISIONS" of DHHL'S General Conditions.

1.02 GENERAL REQUIREMENTS:

A. <u>Description</u>: This work shall consist of furnishing, installing and maintaining barricades in accordance with the requirements of the contract.

Barricade application shall be provided for in the latest edition of the FHWA publication, Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), and as amended.

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. <u>Lumber</u>: Lumber (treated) for rails, frames and braces shall be dry, sound, undamaged, well seasoned, and free from any defect which may impair their strength and durability.
- B. <u>Hardware</u>: Nails shall be galvanized wire nails. As many and as large a size as is practicable shall be used.
- C. <u>Paints</u>: Paints shall be exterior enamel paint of the best grade or first line as made by approved manufacturers.
- D. <u>Sheet Reflecting Material</u>: Sheet reflecting material shall conform to the applicable requirements of Subsection 712.20(C) of the "Standard Specifications for Road and Bridge Construction".
- E. <u>Alternate Designs</u>: Alternate barricade designs such as plastic molded barricades may be used subject to the Project Manager's approval. The Contractor shall submit shop drawings or catalog cuts for approval.

PART 3 - EXECUTION

3.01 CONSTRUCTION REQUIREMENTS:

A. <u>General</u>: Barricades shall be constructed in a first class, workmanlike manner in accordance with details shown on the plans and as specified

herein.

Barricades shall be in good condition and approved by the Project Manager for use within the project limits. Barricade application and installation shall be as shown on the plans and as directed by the Project Manager in accordance with the guidelines provided in the latest edition of the FHWA publication, Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD), and any amendments or revisions thereof as may be made from time to time.

Sand bags or other approved weights shall be provided where required or as directed by the Project Manager. Sand bags or other approved weights shall not be placed on any striped barricade rail.

Steady burn and/or flashing lamps shall be required on selected barricades used during hours of darkness. Locations shall be as shown on the plans and as directed by the Project Manager. Lamps shall be attached on the barricade ends closest to the traveled way and shall be visible to the motorist.

Barricades furnished and paid for as provided for as provided herein may be used for temporary detours, construction phasing, or other temporary traffic control work.

Barricades furnished and paid for use in temporary detours or construction phasing may be used for permanent location called for on the plans.

Upon completion of the construction work, barricades shall be left in place, relocated, or removed and disposed of as shown on the plans or as directed by the Project Manager. Barricades left in place, or relocated to new permanent locations shall become the property of the State. Barricades directed to be removed and disposed of shall become the property of the Contractor.

- B. <u>Painting</u>: Wooden rails, frames and braces shall be given a prime coat and 2 finish coats of new white exterior enamel paint. Rail faces to be reflectorized may be left unpainted unless otherwise specified or directed.
- C. <u>Reflectorization</u>: Reflectorization of barricade rails shall be done in a first class, workmanlike manner and the attachment of reflective sheeting shall be as shown on the plans, specified herein, or as directed and approved by the Project Manager.

Both vertical faces of each barricade rail shall be reflectorized as shown on the plans. Wooden rails shall be reflectorized with one of the following:

- 1. Reflective sheeting specified in Subsection 712.20(C)(4) of the "Standard Specifications for Road and Bridge Construction" and backed with a 26 gage galvanized steel sheet, or
- 2. A hardened aluminum backed reflective sheeting as specified in Subsection 712.20(C)(5) of the "Standard Specifications for Road and Bridge Construction."
- D. Color: Rails, frames and braces shall be white.

The front and back faces of barricade rails shall have 6-inch wide alternative colored and white striped sloping downward toward the traveled way at an angle of 45 degrees with the vertical. The colored stripes shall be either orange or red in accordance with the following requirements:

- 1. Orange and white stripes shall be used in the following conditions:
 - Construction work.
 - b. Detours.
 - c. Maintenance work.
- 2. Red and white stripes shall be used in the following conditions:
 - a. On roadways with no outlet (i.e. dead-ends, cul-de-sacs).
 - b. Ramps or lanes closed for operational purposes.
 - c. Permanent or semi-permanent closure or termination of a roadway.
- E. <u>Maintenance</u>: Barricades shall be kept in good condition throughout their usage during construction until the end of the contract.
- F. The Contractor shall repair, repaint, clean or replace the barricades as required and as directed by the Project Manager to maintain their effectiveness and appearance.

The Constructor shall immediately replace all lost, stolen or damaged barricades, lamps, sand bags and other approved weights.

Barricades used during construction phasing, temporary detours or other temporary traffic control work shall be cleaned and repaired as necessary, prior to being relocated to a permanent location shown on the plans or as directed.

No extra payment will be made for any repair work, repainting, or cleaning of barricades. The Project Manager shall determine the suitable condition of each barricade and shall determine when each barricade shall be repaired, repainted or cleaned.

SECTION 01560 - ENVIRONMENTAL CONTROLS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

The General Provisions, Special Provisions, and General Requirements of the Specifications, apply to the work specified in this section. Special attention is directed to the General Provisions, Article VI, Control of Materials, Paragraph 6.9 Unacceptable Materials, and the Special Provisions, Article VIII, Prosecution and Progress, Paragraph 8.14 Standard and Codes.

1.02 ENVIRONMENTAL PROTECTION

With the exception of those measures set forth elsewhere in these specifications, environmental protection shall consist of the prevention of environmental pollution as the result of construction operations under this contract. For the purpose of this specification, environmental pollution is defined as the presence of chemical, physical, or biological elements or agents which adversely affects human health or welfare, unfavorably alter ecological balances of importance to human life, environment for aesthetic and recreational purposes.

1.03 APPLICABLE REGULATIONS

In order to provide for abatement and control of environmental pollution arising from the construction activities of the Contractor and their Subcontractors in the performance of this contract, the work performed shall comply with the intent of the applicable Federal, State, and Local laws and regulations concerning environmental pollution control and abatement, including, but not limited to, the following regulations:

- A. State of Hawaii, Department of Health, Administrative Rules, Chapter 55, WATER POLLUTION CONTROL; Chapter 54, WATER QUALITY STANDARDS.
- B. State of Hawaii, Department of Health, Administrative Rules, Chapter 59, AMBIENT AIR QUALITY; Chapter 60, AIR POLLUTION CONTROL.
- C. State of Hawaii, Department of Health, Administrative Rules, Chapter 42, VEHICULAR NOISE CONTROL.
- D. State of Hawaii, Occupational Safety and Health Standards, Title 12, of Labor and Industrial Relations, Subtitle 8, Division of Occupational Safety and Health, Part 3 Construction Standards, Chapter 145 Asbestos; Environmental Protection Agency, Code of Federal Regulations Title 40, Part 61, Subpart M (Revised Subpart B), NATIONAL EMISSION STANDARDS FOR AIR POLLUTANTS and Subpart B, NATIONAL EMISSION STANDARDS FOR ASBESTOS; Final Rule dated November 20, 1990, and U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Asbestos Regulation, Code of Federal

Regulations Title 29, Part 1910, 1915 and 1926, Occupational Exposure to Asbestos, Final Rule dated August 10, 1994.

<u>PART 2 – PRODUCTS</u> (Not Applicable)

PART 3 – EXECUTION

3.01 AIR POLLUTION CONTROL

- A. Emission: The Contractor shall not be allowed to operate equipment and vehicles that show excessive emissions of exhaust gases until corrective repairs or adjustments are made, as determined by the Engineer.
- B. Dust: The Contractor, for the duration of the contract, shall maintain all excavations, embankments, haul roads, permanent access roads, plant sites, waste disposal areas, borrow areas, and all other work areas within or without the project limits free from dust which would cause a hazard to the work, or operations of other Contractors, or to persons or property. Industry-accepted methods of stabilization suitable for the area involved, such as sprinkling or similar methods, will be permitted. Chemical or oil treating shall not be used.
- C. Burning on jobsite shall not be permitted.

3.02 WATER POLLUTION CONTROL

- A. Wastes: The Contractor shall not deposit at the jobsite or in its vicinity solid waste or discharge liquid waste such as fuels, lubricants, bituminous waste, untreated sewage and other pollutants which may contaminate the body of ground water.
- B. Spillage: Care shall be taken to ensure that no petroleum products, bituminous materials, or other deleterious substances, including debris, are allowed to fall, flow, leach, or otherwise enter the sewage systems or storm drains.
- C. Erosion: Contractor shall provide any necessary temporary drainage, dikes, and similar facilities to prevent erosion damage to the site. Run-off shall be controlled to prevent damage to surrounding area.

3.03 NOISE CONTROL

Construction equipment shall be equipped with suitable mufflers to maintain noise within levels complying with applicable regulations.

3.04 DISPOSAL

Construction waste, such as crates, boxes, building materials, pipes, and other rubbish shall be disposed of at a Sanitary Landfill. Large size objects shall be reduced to a size acceptable by the Sanitary Landfill Specifications. Other areas or methods proposed by the Contractor will be approved only if the Engineer determines that their effect on the environment is equal to or less than those described herein.

3.05 HAZARDOUS MATERIALS CONTROL

The use of hazardous materials, i.e., asbestos and PCB, in the construction of this project is prohibited. Any corrective action to remove and replace the hazardous material and contaminated work shall be at the sole expense of the Contractor.

PART 4 – MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

Work under this section will not be measured nor paid for separately, but shall be considered incidental to and included in the bid prices for the various items of work in this project.

SECTION 01567 - POLLUTION CONTROL

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Pollution Control shall be made in accordance with Section 40 – "POLLUTION CONTROL" of the State's General Conditions, AG-008 103D.

1.02 GENERAL REQUIREMENTS:

A. Rubbish Disposal:

- 1. No burning of debris and/or waste materials shall be permitted on the project site.
- 2. No burying of debris and/or waste material except for materials which are specifically indicated elsewhere in these specifications as suitable for backfill shall be permitted on the project site.
- 3. All unusable debris and waste material shall be hauled away to an appropriate off-site dump area. During loading operations, debris and waste materials shall be watered down to allay dust.
- 4. No dry sweeping shall be permitted in cleaning rubbish and fines which can become airborne from floors or other paved areas. Vacuuming, wet mopping or wet or damp sweeping is permissible.
- 5. Enclosed chutes and/or containers shall be used for conveying debris from above to ground floor level.
- 6. Clean-up shall include the collection of all waste paper and wrapping materials, cans, bottles, construction waste materials and other objectionable materials, and removal as required. Frequency of clean-up shall coincide with rubbish producing events.

B. <u>Dust</u>:

- The Contractor shall prevent dust from becoming airborne at all times including non-working hours, weekends and holidays in conformance with the State Department of Health, Administrative Rules, Title 11, Chapter 60 - Air Pollution Control.
- The method of dust control and costs shall be the responsibility of the Contractor. Methods of dust control shall include the use of water, chemicals or asphalt over surfaces which may create airborne dust.

C. Noise:

- 1. Noise shall be kept within acceptable levels at all times in conformance with the State Department of Health, Administrative Rules, Title 11, Chapter 46 Community Noise Control for Oahu. The Contractor shall obtain and pay for the Community Noise Permit from the State Department of Health when the construction equipment or other devices emit noise at levels exceeding the allowable limits.
 - 2. All internal combustion engine-powered equipment shall have mufflers to minimize noise and shall be properly maintained to reduce noise to acceptable levels.
 - 3. Pile driving operations shall be confined to the period between 9:00 a.m. and 5:30 p.m., Monday through Friday. Pile driving will not be permitted on weekends and legal State and Federal holidays.
 - 4. Starting-up of construction equipment meeting allowable noise limits shall not be done prior to 6:45 a.m. without prior approval of the Project Manager. Equipment exceeding allowable noise levels shall not be started-up prior to 7:00 a.m.

D. Erosion:

- 1. During interim grading operations, the grade shall be maintained so as to preclude any damage to adjoining property from water and eroding soil.
- 2. Temporary berms, cut-off ditches and other provisions which may be required because of the Contractor's method of operations shall be installed at no cost to the State.
- 3. Drainage outlets and silting basing shall be constructed and maintained as shown on the plans to minimize erosion and pollution of waterways during construction.

E. Others:

- 1. Wherever trucks and/or vehicles leave the site and enter surrounding paved streets, the Contractor shall prevent any material from being carried onto the pavement. Waste water shall not be discharged into existing streams, waterways, or drainage systems such as gutters and catch basins unless treated to comply with the State Department of Health water pollution regulations.
- 2. Trucks hauling debris shall be covered as required by PUC

Regulation. Trucks hauling fine materials shall be covered.

- 3. No dumping of waste concrete will be permitted at the job-site.
- 4. Except for rinsing of the hopper and delivery chute, and for wheel washing where required, concrete trucks shall not be cleaned on the job-site.
- 5. Except in an emergency, such as a mechanical breakdown, all vehicle fueling and maintenance shall be done in a designated area. A temporary berm shall be constructed around the area when runoff can cause a problem.
- 6. When spray painting is allowed such spray painting shall be done by the "airless spray" process. Other types of spray painting will not be allowed.

F. <u>Suspension of Work</u>:

- 1. Violations of any of the above requirements or any other pollution control requirements which may be specified in the Technical Specifications herein shall be cause for suspension of the work creating such violation. No additional compensation shall be due the Contractor for remedial measures to correct the offense. Also, no extension of time will be granted for delays caused by such suspensions.
- 2. If no corrective action is taken by the Contractor within 72 hours after a suspension is ordered by the Project Manager, the State reserves the right to take whatever action is necessary to correct the situation and to deduct all costs incurred by the State in taking such action from monies due the Contractor.
- 3. The Project Manager may also suspend any operations which he feels are creating pollution problems although they may not be in violation of the above-mentioned requirements. In this instance, the work shall be done by force account as described in Subsection 4.2b -"Additional Work" of the GENERAL CONDITIONS and paid for in accordance with Subsection 8.4b "Force Account Work" therein. The count of elapsed working days to be charged against the contract in this situation shall be computed in accordance with Subsection 7.18 "Contract Time" of the GENERAL CONDITIONS.

<u>PART 2 - PRODUCTS</u> (NOT USED) PART 3 - EXECUTION (NOT USED)

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01570 - SOIL EROSION CONTROL

PART 1 -- GENERAL

1.01 RELATED DOCUMENTS

- A. Related Work Described Elsewhere:
 - 1. Section 02100 SITE PREPARATION
 - 2. Section 02300 EARTHWORK
 - 3. Erosion Control Plan

1.02 DESCRIPTION

- A. Work under this section consists of furnishing all labor, materials and equipment required to complete the approved Erosion Control Plan per Federal, State and County Code requirements and as shown in the Drawings, the temporary control measures as required by these Specifications, or as ordered by the Contracting Officer during the life of the Contract to control dust and water pollution. Control of dust and water pollution shall be through the use of silt fences, stabilized construction entrance/exit, dust fences, watering, snake bags, and/or other erosion control devices or methods.
- B. Temporary erosion and siltation control measures as described herein shall be applied to any erodible material within this project, including local material sources, stockpiles and work areas.
- C. The Contractor shall be responsible for removing all silt and debris resulting from his work and deposited in drainage facilities, roadways, neighboring lands, and other areas.
- D. All costs incurred in complying with the provisions of this Section shall be borne by the Contractor.

1.03 SUBMITTALS

A. Best Management Practice (BMP) Plan: The Contractor shall provide a letter indicating conformance to the Erosion Control Plan as shown in the Drawings or provide a written, site-specific BMP describing activities to minimize water pollution and soil erosion into City and State waters and/or drainage systems. The BMP shall conform to the requirements of the "Rules Relating to Soil Erosion Standards and Guidelines," for the City and County of Honolulu as adapted for the County of Maui, and the "National Pollutant Discharge Elimination

System Permit" as part of HAR Chapter 11-55, and inclusive of all references.

PART 2 -- PRODUCTS

2.01 MATERIALS

- A. Following are standard traditionally provided approaches, contractor to provide at a minimum these along with additional facilitates to comply with standards and codes. Runoff to adjacent properties shall be strictly prohibited and controlled.
 - 1. Silt fences shall be constructed with an ultraviolet (UV) resistant geotechnical filter fabric, stapled or secured to wood or metal posts embedded into the ground.
 - 2. Snake bags shall be constructed with a UV resistant geotechnical filter fabric filled with gravel.
 - 3. Filter socks shall be constructed with a UV resistant geotechnical filter fabric, filled with an Environmental Protection Agency (EPA) or State Department of Health (DOH) acceptable compost material.
 - 4. Stabilized construction entrance/exit shall be constructed with 1-inch to 3-inch course aggregate, 6-inches minimum thickness over a geotechnical filter fabric.
 - 5. Mulches may be bagasse, hay, straw, fiber mats, netting, wood cellulose, bark, wood chips, or other suitable material acceptable to the Contracting Officer and shall be reasonably clean and free of noxious weed and deleterious materials.

Mulch shall be specially processed fiber containing no growth or germination inhibiting factors. It shall be such that after addition and agitation in the hydraulic equipment with seed, fertilizer, water and other additives not detrimental to plant growth, the fibers will form a homogeneous slurry. When hydraulically sprayed on the soil, the fibers shall form a blotter-like ground cover which readily absorbs water and allows infiltration to the underlying soil. In every application, complete coverage of the soil shall be attained. Mulch shall be applied at the minimum rate of 1,500 pounds per acre.

- B. Slope drains may be constructed of pipe, fiber mats, rubble, Portland cement concrete, bituminous concrete, plastic sheets, or other material acceptable to the Contracting Officer.
- C. Grass shall be a quick growing species (such as Bermuda grass, rye grass, Italian rye grass, or cereal grasses) suitable to the area and

which provide a temporary cover that does not later compete with the permanent cover.

- 1. The grass shall be obtained by digging up luxuriant growths from areas that are free of seeds, roots, plants, and grasses that are foreign to the specified grass. The grass will not be acceptable unless it is planted and watered within 24 hours after being dug out from its original growing position.
- 2. Seed for hydro-mulching, unless otherwise specified, shall be Bermuda (Cynodon Dactylon) except giant varieties, certified, meeting the following requirements:

Pure Seed 95% minimum
Crop Seed 1% maximum
Weed 0.5% maximum
Inert Material 5% maximum
Germination 85% minimum

The seeds shall be applied at the rate of 100 pounds per acre (minimum) and within twelve (12) months of the date of the certified germination test.

D. Fertilizer

- 1. Fertilizer and soil conditioners shall be a standard commercial grade acceptable to the Contracting Officer.
- 2. The Contractor shall be responsible to determine the proper fertilizer required in the hydro-mulch mix for the existing soil condition. He shall be responsible to decide the quantity and the analysis and ratio to insure sufficient nutrients for the sustained growth of the grass.

PART 3 - EXECUTION

- 3.01 The Contractor shall install all erosion control measures shown in the Drawings, including stabilized construction entrance/exit, silt fences and dust fences, before any clearing, grubbing or earth moving work is initiated. The erosion control measures may be modified as necessary to adjust to field conditions that develop as the construction work progresses.
- 3.02 Except for specified erosion control measures shown in the Drawings, the Contractor shall determine additional erosion control measures to use as the construction work progresses. Such measures may involve scheduling of the construction activities to minimize the erosion potential, the construction of temporary berms, dikes, dams, sediment basins, and slope drains, and the use of temporary mulches, mats, and grassing, or the construction and use of other control devices or methods as necessary to control erosion.

- 3.03 All erosion control measures shall be checked, maintained, cleaned and repaired throughout the duration of the construction period. As a minimum, erosion control measures should be checked weekly in dry periods and within twenty-four hours after any rainfall of 0.5 inches or greater within a 24-hour period. During prolonged rainfall, the erosion control measures should be checked daily. If heavy rains are projected, all erosion control measures should be inspected immediately and reinforced as necessary.
- 3.04 The maximum surface area of earth material exposed by clearing, grubbing, borrow and fill operations at any time is 1.0 acres. The Contracting Officer has the authority to limit the surface area exposed by clearing and grubbing and to limit the surface area exposed by excavation, borrow and fill operations. The Contracting Officer may also direct the Contractor to provide immediate, permanent, or temporary pollution control measures to prevent contamination of drainage channels and pipes, roads, neighboring lands, and other areas.
- 3.05 The Contractor shall limit the surface area exposed by grubbing, stripping of topsoil, and grading to that which is necessary for to perform the next operation and which is within his capability and progress in keeping the finish grading, mulching, grassing, and other such pollution control measures current.
- 3.06 The Contractor shall conduct his operations so that excavation, embankment and imported materials shall be dampened with water on a continual basis to prevent dust problems. The Contractor shall limit the amount of water sprayed for dust control to ensure that the water evaporates or infiltrates with no runoff.
- 3.07 The Contractor shall, at the end of each work operation in any one day, shape the earthwork in such a manner as to control and direct the runoff of rainwater to minimize the erosion of soils. He shall construct earth berms along the top edges of embankments or along any critical area within the project, such as along the property line with adjacent properties, streams, and water channels, to intercept any runoff. Temporary slope drains shall be provided to carry runoff from the top of cuts and fills. Temporary facilities for controlled discharges shall be provided for runoff impounded, directed, or controlled by project activities or by any erosion control measure employed.
- 3.08 Cut and fill slopes shall be shaped, topsoiled and planted, if necessary or shown on the Drawings, as the work progresses. Whenever major earthwork is suspended or halted and the slope is bared, the exposed surfaces shall be hydro-mulch seeded or protected as directed by the Contracting Officer at the Contractor's expense without cost to the State.
- 3.09 Construction of berms, cofferdams, or other such construction in or near the vicinity of waterways, or other bodies of water shall be of approved materials.
- 3.10 Damages caused by the erosion of soils and the pollution of downstream areas shall be the responsibility of the Contractor and all costs for repairing, SOIL EROSION CONTROL

correcting, replacing, and cleaning such damaged or polluted facilities shall be borne by the Contractor.

3.11 Grassing for erosion control of erodible areas can be undertaken by sprigging, matting or hydro-mulch seeding.

A. Sprigging or Matting

1. Ground Preparation: Prior to planting, the areas to be grassed shall be cleared of all unwanted plants (including their root systems), stones over three (3) inches in diameter, papers, trash and debris.

If the existing soil in the areas to be grassed is suitable for use as topsoil, the soil shall be scarified to a depth of six (6) inches from the finished surface, and worked until it is of a uniform and loose texture.

Areas unsuitable for planting shall be finished with a 4-inch layer of topsoil, spread and graded to conform to the finish grade shown on the Drawings.

- 2. Planting: Planting shall be by sprigging, matting, or other methods at the option of the Contractor. If planting is by sprigging or matting, the surface shall be rolled with a suitable lawn roller after planting has been completed.
- 3. Water shall be applied within the same day of planting in such quantities as to moisten the soil to the depth of the planted grass. Additional application shall be made so that the planted areas are continually kept damp to the grass depth and until the commencement of plant establishment work.
- 4. Fertilizer shall be applied at not less than the rate of 300 pounds per acre, 23 to 30 days after the grass has been planted.
- B. Hydro-Mulch Seeding
- 1. The Contractor shall begin hydro-mulch seeding operations after the areas prepared or designated for seeding have been approved by the Contracting Officer. Approval shall include inspection of slopes to insure provision has been made for the collection and disposal of surface water to protect planted areas from erosion. Approval shall not relieve the Contractor of his responsibility to restore any damage to the slope or planted areas not yet accepted by the State.
- 2. The hydro-mulch equipment shall be capable of mixing all the necessary ingredients to a uniform mixture and of applying the

- slurry to provide uniform coverage. Seed, fertilizer, and mulch mix shall be applied in one operation by approved hydraulic equipment.
- 3. Areas inaccessible to hydro-mulching application shall be seeded, fertilized and mulched by hand methods.
- 4. Water shall be applied immediately following mulching in such quantities as to moisten the soil and mulch. Watering shall be continued in such manner, quantity, and frequency to insure proper germination and growth and shall be done in a way that will prevent erosion and will not cause damage to the planted areas.

SECTION 01580 – TEMPORARY FACILITIES AND UTILITIES

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Temporary Facilities and Utilities shall be made in accordance with Section 7.46 - "UTILITIES AND SERVICES" of the DHHL's General Conditions.

1.02 DESCRIPTION

This item shall consist of arranging and maintaining all utilities including, but not limited to, water, electricity, sewage disposal and telephone communications in the work area which the Contractor and Project Manager deems necessary to meet the requirements of the work under the contract.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION

3.01 TEMPORARY UTILITIES DURING CONSTRUCTION

- A. <u>Water and Sanitation</u>: The Contractor shall provide temporary drinking water and sanitary facilities for the field personnel. The facilities shall be in accordance with the applicable health regulations and shall be maintained clean and operable until the conclusion of the construction work.
- B. <u>Telephone</u>: Cellular telephones are acceptable. All costs associated with obtaining and maintaining telephone service shall be borne by the Contractor.
- C. <u>Electricity:</u> Contractor shall obtain or provide temporary electric power and shall pay for all connections and energy charges incurred during construction.
- D. Metering: Water and electrical services shall be metered and payment for meters and services shall be borne by the Contractor. Temporary connections for water shall include installation of a meter and backflow preventer at the point of connection according to State standards at the Contractor's cost. The Contactor shall submit requests for temporary connection in writing to the Engineer fourteen (14) calendar days prior to the connection and shall include a description of work and a sketch of the proposed installation.

PART 4 – MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

Work under this section will not be measured nor paid for separately, but shall be considered incidental to and included in the prices bid for the various items of work in this project.

SECTION 01700 - MOBILIZATION AND DEMOBILIZATION

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

This section covers the requirements for mobilization and demobilization are hereby incorporated into and made a part of these specifications by reference unless otherwise modified hereinafter.

1.02 MOBILIZATION

The Contractor shall mobilize and transport his construction plant and equipment including materials and supplies for operation to the site of work, construct temporary buildings and facilities as necessary, and assemble the equipment at the site as soon as possible after receipt of Notice to Proceed, subject to the provisions of the General Provisions.

1.03 DEMOBILIZATION

The Contractor shall demobilize and transport his construction plant and equipment including materials, supplies and temporary buildings off the site as soon as possible after construction is completed. Demobilization shall include all cleanup required under this contract and as directed by the Engineer. Demobilization and final cleanup shall be completed prior to final acceptance.

1.04 PERFORMANCE BOND

The Contractor shall file and pay for the performance and payment bonds according to the Instruction for Bid Submittal, except that the value of the bonds shall equal one hundred percent (100%) of the amount of the contract basic bid amount plus one hundred percent (100%) of the amount of the extra work.

Payment for the Contractor's bond premium will be made in accordance to the terms stated in Part 4 below.

PART 2 – PRODUCTS (Not Applicable)

<u>PART 3 – EXECUTION</u> (Not Applicable)

PART 4 – MEASUREMENT AND PAYMENT

4.01 <u>METHOD OF MEASUREMENT</u>

A. Mobilization shall not be measured for payment. The maximum bid allowed for "Mobilization" is an amount not to exceed size (6) percent of the sum of all items (excluding this item and all Allowances). If the proposal submitted by the bidder indicates an amount in excess of the allowable maximum, the indicated amount or amounts shall be reduced to the allowable maximum; the "Sum of All Items," in the proposal schedule shall be adjusted to

- reflect any such reduction. For the purpose of comparing bids and determining the contract price to be inserted in the contract awarded to the bidder, if any is so awarded, the "Sum of All Items" adjusted in accordance with the foregoing shall be used and the bidder's proposal shall be deemed to have been submitted for the amounts as reduced and adjusted in accordance herewith.
- B. Demobilization will not be measured for payment. A separate line item called "Demobilization" will be added to the Contractor's Schedule of Values after the contract has been awarded. The total amount for this item shall be 2.5% of the Contractor's total bid amount and will be deducted from other line items in the schedule of values as negotiated between the Contractor and the State. THE CONTRACTOR SHALL NOT MODIFY THE PROPOSAL SCHEDULE BY ADDING A "DEMOBILIZATION" BID ITEM TO THE PROPOSAL SCHEULE.

4.02 BASIS OF PAYMENT

- A. Mobilization will be paid for at the contract lump sum price under Mobilization. Partial payment will be made as follows:
 - 1. When 2 ½ percent of the original contract amount is earned, 50 percent of the bid amount will be paid.
 - 2. When 5 percent of the original contract amount is earned, 75 percent of the bid amount will be paid.
 - 3. When 10 percent of the original contract amount is earned, 100 percent of the bid amount will be paid.
 - Nothing herein shall be construed or limit or preclude partial payments otherwise provided by the contract.
- B. Partial payment will not be paid for Demobilization. Full payment will be made on the Contractor's final payment request. This will occur after the Contractor has fulfilled all of the requirements of the Contract bid documents to the satisfaction of the State and issuance of the Final Acceptance letter to the Contractor by the State.

SECTION 01750 - GUARANTEE

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

Guarantee shall be made in accordance with Section 7.35 – "GUARANTEE OF WORK" of the DHHL's General Conditions.

1.01 **GUARANTEES**

The Contractor guarantees all materials and equipment furnished to be in operable condition upon final acceptance of the work and that all such materials and equipment conform to the requirements of this contract and be fit for the use intended.

He further guarantees all such materials and equipment against defects and poor workmanship and, to the extent that he is responsible for design, the Contractor guarantees the design to meet the criteria and operating requirements specified against failure to perform in accordance with such criteria and operating requirements.

The period of this guarantee shall commence upon acceptance of the work by the DHHL, and shall extend through the project performance evaluation period not to exceed 1 year for all materials and equipment, provided that this period shall be extended from the time of correction of any defect or failures, corrected under the terms of this guarantee, for a like period for the corrected work.

The Contractor shall correct all defects or failures discovered within the guarantee period. The DHHL will give the Contractor prompt written notice of such defects or failures following their discovery. The Contractor shall commence corrective work within five (5) days following notification and shall diligently prosecute such work to completion. The Contractor shall bear all costs of corrective work, which shall include necessary disassembly, transportation, reassembly and retesting, as well as repair or replacement of the defective material or equipment, and any necessary disassembly and reassembly of adjacent work.

Any period that a particular equipment is not operable due to its failure shall not be considered as a part of the guarantee period. The guarantee period shall be extended for a like period. If due to failure of other equipment the equipment is unable to perform its intended function, the guarantee period shall be extended for a like period. Time that equipment is operating shall be counted as applying to the warranty. Such time shall be determined by use of plant operator's log or other suitable documentation.

If the Contractor falls to perform corrective work in the manner and within the time stated, the Department of Hawaiian Home Lands (DHHL) may proceed to have such work performed at the Contractor's expense and his sureties will be liable therefor. The DHHL shall be entitled to reasonable attorney's fees and court costs necessarily incurred by the Contractor's refusal to honor and pay such costs of corrective work. The Contractor's performance bond shall continue in full force and effect during the period of this guarantee.

The rights and remedies of the DHHL under this provision do not preclude the exercise of any other rights or remedies provided by this contract or by law with respect to unsatisfactory work performed by the Contractor.

This guarantee shall be deemed supplemental to guarantee provisions provided in other sections of the specifications for the individual units and systems of units so specified.

Guarantee periods shall start at the time of acceptance in writing by the State. All guarantees and warranties shall be made out to the "State of Hawaii." Supplier and subcontractor guarantees shall be co-signed by the Contractor. The Contractor is solely responsible for coincidence or non-coincidence of factory warranties or equipment guarantees, and the Contractor's own warranties and guarantees as required by the contract. The Contractor is solely responsible for scheduling and coordinating the installation of equipment and materials so as to take maximum advantage of factory warranties.

SECTION 01770 – CLOSE-OUT PROCEDURES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Close-Out Procedures shall be made in accordance with Section 7.33.1 – "SUBSTANTIAL COMPLETION" of the DHHL's General Conditions.

1.02 SUMMARY

- A. This Section outlines the DHHL Close-Out documents requirements. It includes information about the distribution process, the format and quantities of various types of information, and the internal review process for document acceptance. Fulfillment of these requirements is a condition precedent to the Contractor receiving final payment.
 - 1. Project Record Documents.
 - 2. Operation and Maintenance Manuals.
 - Warranties.
 - 4. Instruction for the State's personnel.
- B. Related documents include the following:
 - 1. SECTION 01700 EXECUTION REQUIREMENTS.
- C. Transmittal Memo

All Close-Out documents will be submitted to the designated Construction Management with a Transmittal Memo. The Transmittal Memo must include the following information:

- Date of Conveyance:
- Project Name:
- IFB Number:
- Contract Number:
- DHHL Project Manager:
- Contractor Name:
- Contractor Address:
- Name/Transmitting Signature of Contractor Agent:
- Name/Telephone Number of Document Submitter:
- List of documents transmitted:

D. Document Types and Formats

| Materials | Format |
|---|-----------------|
| Transmittal Summary | |
| Documents Transmittal Memo | Word or Excel* |
| | |
| Project Operations and Maintenance | |
| | |
| Project manual with Specifications | Searchable PFD* |
| Operation and Maintenance Manuals | Searchable PDF* |
| Overset / Managet Materials | DDE* |
| Guaranty / Warranty Materials | PDF* |
| Testing / inspection certifications | PDF* |
| Record Documents | |
| Site survey | CAD & PDF* |
| Oile Survey | OAD & 1 DI |
| Shop drawings | CAD & PDF* |
| Chiop drawnigo | 0/15 4 1 51 |
| As-built drawings | CAD & PDF* |
| 7.6 Sam arannigo | 0,13 0,131 |
| Scope, Cost and Schedule data | PDF |
| • ′ | |
| Final cost ourseasure by cooperat | |
| Final cost summary by account | |
| Final schedule of valves Submitted by Congret Contractor | |
| submitted by General Contractor | |
| Final schedule Final Object to gravitate and in the second seco | |
| Final Chart to provide project | |
| description and scope. | |
| Final Executive Summary | |
| Other Documents | |
| Other documents – addenda, change | (As needed)* |
| order, project correspondence files, etc. | (A3 Needed) |
| Reports, including photographic records | PDF* |
| Electronic files (photos, scanned | JPEG, PDF* |
| documents) | J. 23, 1 21 |
| Building Information Model, if applicable | (As needed)* |
| *See notes on CAD / Electronic | |
| documents | |

1.03 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting a Final Inspection to determine; remints of the GENERAL CONDITIONS.
 - 1. Advise the Project Manager of pending insurance changeover requirements.
 - 2. Submit specific warranties, final certifications, and similar documents.
 - 3. Arrange to deliver tools, spare parts, extra materials, and similar items to a location designated by the Project Manager. Label with manufacturer's name and model number where applicable.
 - 4. Complete startup testing of systems.
 - 5. Submit test, adjust, and balance records.
 - 6. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 - 7. Complete final cleaning requirements, including touch up painting.
 - 8. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
 - 9. Submit the Operation and Maintenance Manual(s) for review

1.04 FINAL COMPLETION

- A. Preliminary Procedures: Within 10 days from the Project Acceptance Date, complete the following items in addition to requirements of GENERAL CONDITIONS:
 - 1. Instruct the State's personnel in operation, adjustment, and maintenance of products.

1.05 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Preparation: Submit 2 copies of any updated and action taken list. In addition to requirements of GENERAL CONDITIONS, include name and identification of each space and area affected by construction operations for incomplete items and items needing

correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

- 1. Organize list of spaces in sequential order.
- 2. Include the following information at the top of each page:
 - a. Project Name and Title.
 - b. DHHL IFB No.
 - c. DHHL Contract No.
 - d. Date and page number.
 - e. Name of Contractor.

1.06 PROJECT RECORD DOCUMENTS AND REQUIREMENTS

A. General:

- 1. Definition: "Project Record Documents", including Record Drawings, shall fulfill the requirements of "Field-Posted As-Built Drawings" listed in the GENERAL CONDITIONS.
- Do not use Project Record Documents for daily construction purposes. Protect Project Record Documents from deterioration and loss. Provide access to Project Record Documents for Project Manager's reference during normal working hours. Maintain these documents as specified in paragraph entitled "Record Drawings" hereinafter.
- 3. The Design Consultant, under contract with the State, will update the drawings to show all addendum, PCD, and sketch changes. The Contractor will transmit these drawings to the Construction Manager who will sent to the Design Consultant to make all "red-line" corrections to these drawings to record the changes depicted on the Contractor's Field Posted Record ("As-Builts") by accepted drafting practices as approved by the Project Manager.
- 4. Where the recorded changes depicted on the Contractor's Field Posted Record ("As-Builts") are in the form of shop drawings, the Contractor shall provide those shop drawings in the same material and size as the drawings transmitted to the Contractor. The new drawing sheets shall be titled and numbered to conform to the construction drawings and

- clearly indicate what information they supercede in the actual construction drawings. For example a new drawing that replaces drawing M-3, could be numbered M3a.
- 5. The Contractor shall bring to the attention of the Project Manager any discrepancy between the changes made by the Design Consultant and those depicted on addendum, PCD, and sketch changes. The Project Manager will resolve any conflicts.
- 6. Submit final Record Documents (Field Posted Record Drawings) within 10 days after the Final Inspection Date but no later than the Contract Completion Date, unless the General conditions require an earlier submittal date.
- 7. The Contractor shall guarantee the accuracy of its final Record Documents. The State will hold the Contractor liable for costs the State incurs as a result of inaccuracies in the Contractor's Record Documents.
- 8. Prepare and submit construction photographs and electronic files, damage or settlement surveys, property surveys, and similar final record information as required by the Project Manager.
- 9. Deliver tools, spare parts, extra materials, and similar items to a location designated by the Project Manager. Label with manufacturer's name and model number where applicable.
- 10. Submit final/corrected Operation and Maintenance Manual(s).

B. Record Drawings:

- Maintain a duplicate full-size set of Field Posted Record ("As-Built's") Drawings at the job site. Clearly and accurately record all deviations from alignments, elevations and dimensions, which are stipulated on the drawings and for changes directed by the Project Manager that deviate from the drawings.
- 2. Record changes immediately after they are constructed in place and where applicable, refer to the authorizing document (Addenda, Field Order, Change Order, or Contract Modification). Use red pencil to record changes. Make Field

Posted Record Drawings available to the Project Manager at any time so that its clarity and accuracy can be monitored.

- Give particular attention to information on concealed elements that cannot be readily identified and recorded later.
- b. Accurately record information in an understandable drawing technique.
- c. Record data as soon as possible after obtaining it. Record and check the markup before enclosing concealed installations.
- d. Mark the contract drawings or the shop drawings, whichever is most capable of showing actual physical conditions, completely and accurately. Where Shop Drawings are marked, show cross-reference on contract drawings.
- e. Mark important additional information that was either shown schematically or omitted from original Drawings.
- f. Locate concealed building utilities by dimension from bench marks or permanent structures. Locate site utilities by dimensions, azimuth and lengths from bench marks or permanent structures.
- g. Note field order numbers, Change Order numbers, Contract Modification numbers, Alternate numbers, post-construction drawing numbers (PCD) and similar identification (RFI numbers) where applicable.
- h. The Contractor shall initial each deviation and each revision marking.
- 3. Use the final updated Contract Drawing set plus applicable shop drawings for making the final Field Posted Record Drawings submittal.
- 4. Certify drawing accuracy and completeness. Label and sign the record drawings.
- 5. Label the title sheet and on all sheets in the margin space to the right of the sheet number, written from the bottom upward, with the title "FIELD POSTED RECORD

DRAWINGS" and certification information as shown below. Provide a signature line and company name line for each subcontractor that will also certify the respective drawing. Adjust size to fit margin space.

THESE FIELD POSTED AS-BUILT DRAWINGS ARE ACCURATE AND COMPLETE.

| | Certified By: Company: | Date: |
|----|-----------------------------|--|
| 6. | RECORD DRAW SET CONTAINS | ig Index and label the set "FIELD POSTED INGS". Include the label "A COMPLETE [] SHEETS" in the margin at the of each sheet. Quantify the total numbering the set. |

- 7. If the Project Manager determines a drawing does not accurately record a deviation or omits relevant information, the State will correct any FIELD POSTED RECORD DRAWINGS sheet. Contractor will be charged for the State's cost to correct the error or omission.
- 8. Use the final Field Posted Record Drawings sheets to create one electronic version of the set. The set shall be recorded in Adobe Acrobat PDF (Portable Document Format). Create a single indexed, bookmarked PDF file of the entire set of drawings and record on the CD. Submit one set of the final Field Posted Record Drawings sheets and the complete electronic CD set(s).

1.07 WARRANTIES

- A. Submittal Time: Submit written manufacturer's warranties at request of the Project Manager for designated portions of the Work where commencement of warranties other than Project Acceptance date is indicated.
- B. Organize manufacturer's warranty documents into an orderly sequence based on the table of contents of the Specifications.
 - 1. Bind warranties and bonds in heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2 inch x 11-inch paper.

- Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer and prime contractor.
- Identify each binder on the front and spine with the typed or printed title "WARRANTIES", Project Name and Title, IFB Number, Contract Number, and name of Contractor.
- 4. Use the final submittal of the warranties to create an electronic Adobe Acrobat PDF (Portable Document Format) version of the bound warranty documents files. Each sheet shall be separately scanned, at 600 DPI or better into a PDF file, indexed and recorded on a recordable compact disc (CD).
- C. Provide 3 sets of manufacturer's warranties that exceed one year and one CD as part of the closing document submittals. Provide additional copies of each warranty to include in operation and maintenance manuals.

1.08 OPERATION AND MAINTENANCE MANUALS

A. Assemble complete sets of operation and maintenance data indicating the operation and maintenance of each system, subsystem, and piece of equipment not part of a system. Include operation and maintenance data required in individual Specification Sections and as follows:

The Contractor shall bind and turn over to the Construction Management three (3) sets of manufacturers' warranties and operating data and/or maintenance manuals of each system, subsystem, and piece of equipment not part of a system, instructions or schedules for all equipment and special materials requiring them, and associated copies of testing reports and certificates. The three (3) binders will categorize and index each piece of equipment and material included using a Construction Specifications Institute (CSI) format to be provided by the DHHL, and shall be clearly marked noting "project specific" equipment, model numbers, and equipment cut sheets, value tag charts, electrical panel charts and other applicable information. As mentioned above, all pages of the manuals must be submitted in digital format. Such manuals will be collected and organized by the Contractor and submitted to the Construction Management, after review by the Construction Management, prior to the issuance of the certificate of Substantial Completion. Except for the changes noted in this section, the Contractor will follow the procedure outlined in the Standard General Conditions. Include operation and maintenance data required in individual Specification Sections and as follows:

1. Operation Data:

- a. Emergency instructions and procedures.
- b. System, subsystem, and equipment descriptions, including operating standards.
- c. Operating procedures, including startup, shutdown, seasonal, and weekend operations.
- d. Description of controls and sequence of operations.
- e. Piping diagrams.

2. Maintenance Data:

- a. Manufacturer's information, Material Safety Data Sheets, and a list of spare parts.
- b. Name, address, and telephone number of installer or supplier.
- c. Maintenance procedures.
- d. Maintenance and service schedules for preventive and routine maintenance.
- e. Maintenance record forms.
- f. Sources of spare parts and maintenance materials.
- g. Copies of maintenance service agreements.
- h. Copies of warranties and bonds.
- B. Organize the Operation and Maintenance Manuals into suitable sets of manageable size. Submit two (2) sets prior to final inspection, bound in 8-1/2 x 11 inch text pages. Bind and index data in heavyduty, "D" type 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, with pocket inside the covers

to receive folded oversized sheets. Binder color shall be maroon, or if not available red. Identify each binder on front and spine with the printed title "OPERATION AND MAINTENANCE MANUAL", Project Name and Title include building number when appropriate, DHHL Contract Number, IFB Number, Prepared For: Department of Hawaiian Home Lands, Prepared By: [Contractor] and Volume Number. Each binder is a single volume.

C. Electronic Format

- 1. Provide all information (narratives, drawings and manual) on a Compact Disc (CD). Provide drawings and plans prepared for the O&M Manuals drawn electronically and saved as a PDF file. Name and index the files for ease of identification and updates.
- 2. Provide the complete O&M Manual using Adobe Acrobat PDF (Portable Document Format) files. Each sheet shall be separately scanned into a PDF file, indexed, bookmarked, hyperlinked to the table of contents and recorded on a compact disc (CD). Scanned documents shall be scanned at 600 DPI or better. Indexes and bookmarks may be highlighted or colored text. The final submittal shall include written instructions for installing, accessing and retrieving information from the compact disc.
- D. Pre-Final Submittal: Submit two (2) printed sets of Pre-Final Operation and Maintenance Manuals, for review by the DHHL Project Manager, at least five (5) days prior to scheduled final inspection. Manuals shall be marked as Pre-Final. Make any correction noted before submitting the final Operation and Maintenance Manuals.
 - 1. The user and the DHHL will each keep one (1) copy of the Pre-Final submittal to operate and maintain the facility from the Project Acceptance Date through submission of the final submittal. Therefore, the submittal shall contain all the required information that is available at the time of submission.
 - One (1) set will be returned with comments. Additional review comments may include problems discovered during the O&M Manual's review, site validation, and facility start up and will be provided to the Contractor after facility Project Acceptance Date.
- E. Final Submittal: Use the final submittal of the manuals to create the electronic PDF file version of the bound Operation and Maintenance Manuals documents. Include the Submittal (100 percent) review comments along with a response to each item. Provide six (6) Final

sets of the printed manuals and six (6) Final compact discs, (CDs) as part of the closing document submittal. Final printed manual and disks shall be marked as Final.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.01 FINAL CLEANING

- A. General: Execute final cleaning prior to final inspection. Provide final cleaning for each phase of work prior to starting the next phase. In addition to requirements of Article 7 of the GENERAL CONDITIONS conduct cleaning and waste-removal operations to comply with local laws and ordinances and federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturers written instructions unless noted otherwise. Complete the following cleaning operations before requesting final inspection for entire Project or for a portion of Project:
 - 1. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - 2. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits resulting from construction activities.
 - 3. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.

- 4. Remove tools, construction equipment, machinery, and surplus material from Project site.
- 5. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
- 6. Remove debris and surface dust from limited access spaces, including: roofs, gutters, downspouts, drainage systems, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
- 7. Sweep concrete floors broom clean in unoccupied spaces.
- 8. Vacuum carpet and similar soft surfaces, removing debris and excess nap; shampoo if visible soil or stains remain.
- 9. Clean transparent materials, including mirrors and glass in doors and windows. Remove temporary labels, glazing compounds and other noticeable, and vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors, transparent glass, and glossy surfaces, taking care not to scratch surfaces.
- 10. Remove labels that are not permanent.
- 11. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
- 12. Replace disposable air filters and clean permanent air filters. Clean the exposed surface of diffusers, registers, and grills to a sanitary condition.
- 13. Clean ducts, blowers, and coils if units were operated without filters during construction.
- 14. Leave Project clean and ready for occupancy.
- C. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the State's property. Do not discharge volatile, harmful, or dangerous materials

- into drainage and sewer systems or onto State property. Remove waste materials from Project site and dispose of lawfully.
- D. Adjust operation Products and equipment to ensure smooth and unhindered operation.

PART 4 – MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

Work under this section will not be measured nor paid for separately, but shall be considered incidental to and included in the bid prices for the various items of work in this project.

DIVISION 2 – SITE CONSTRUCTION

SECTION 02100 – SITE PREPARATION

PART 1 – GENERAL

1.01 DESCRIPTION

A. The work to be performed under this section shall include clearing the premises of all obstacles and obstructions, the removal of which will be necessary for the proper reception, construction, execution and completion of the other work included in this contract. Furnish all labor, materials and equipment necessary for this work.

1.02 REGULATORY REQUIREMENTS:

Except as modified herin, all clearing and grubbing shall meet the requirements of Chapter 20, "Environmental Protection" of Maui County Code.

PART 2 – MATERIALS (NOT USED)

PART 3 - EXECUTION

3.01 GENERAL

- A. It shall be the responsibility of the Contractor to examine the project site and determine for himself the existing conditions.
- B. Obvious conditions of the site existing on the date of bid opening shall be accepted as part of the work; even though they may not be clearly indicated on the drawings and/on described herein, or may vary therefrom.
- C. Fires: No burning of fires of any kind will be allowed. Blasting will not be permitted.
- D. Reference Points: Bench marks, etc., shall be carefully maintained, but if disturbed or destroyed, shall be replaced as directed, at the Contractor's expense.
- E. Disposal: All materials resultant from operations under this Section shall become the property of the Contractor and shall be removed from the site. Loads of materials shall be trimmed to prevent droppings. No materials shall be dumped on private or public property without proper authority. All material resulting from clearing and grubbing shall be disposed of off the site at an approved disposal site. The Contractor will be required to make all necessary arrangements relative to the proposed place of disposal, and file with DHHL written consent of the owner of the property upon which the

contractor intends to dispose of the materials, prior to the deposit of any material on said property. Combustible spoil material will not be permitted to accumulate on the property in a manner which will create a fire hazard.

3.02 PERMITS, NOTICE, ETC

The Contractor shall apply for and obtain all required permits and certificates from Federal, State, and County agencies that may be required in connection with this work. The Contractor shall pay for all fees.

3.03 PROTECTION

Throughout the work, protection shall be provided for all roads, walks, property, trees, etc., and other existing improvements scheduled to remain. Safe working conditions shall be maintained at all times for all personnel.

3.04 <u>DEMOLITION AND REMOVAL</u>

- A. All work shall be executed in an orderly and careful manner, with due consideration for all items to remain, and the Contractor shall be strictly responsible for any damage thereto.
- B. Water facilities shall be made available and kept in operating condition at all times, except as agreed to approved in advance by the Project Manager.
- C. Dust shall be suppressed by accepted method(s)
- D. Maintain all bench marks, monuments, and other reference points; if disturbed or destroyed, replace as directed at the Contractor's expense.
- E. The Contractor shall document all existing signs, posts, pavement markings, and other improvements that may be disturbed by this project. The Contractor shall repair or replace the disturbed items at his own expense to the satisfaction of Project Manager.
- F. Protect existing asphaltic concrete pavement and other structures which are indicated to remain from damage; if any damage is caused by this work, the contractor shall repair damage at contractor's expense.
- G. Existing utility lines indicated, or locations of which are made known to the contractor prior to the start of work, and that are indicated to be retained, shall e protected from damage during clearing and grubbing work, and if damaged, shall be repaired at the contractor's expense. If utility lines are not indicated, or that the contractor is not aware of, are encountered or damaged, the Project Manager shall be notified immediately.

A. The existence of active underground utility lines within the construction area is not definitely known other than those indicated in their approximate locations on the Drawings. Should any unknown line be encountered during excavation, the Contractor shall immediately notify the Engineer of such discovery. The Engineer shall then investigate and issue instructions for the preservation or disposition of the unknown line. Authorization for extra work shall be issued by the Engineer only as he deems necessary.

3.06 CLEARING AND GRUBBING

A. The Contractor shall clear the premises of all obstacles and obstructions, the removal of which will be necessary for the proper reception, construction, execution and completion of work included in this contract. The area below the natural ground, within the limits of the grading work indicated on the grading plans shall be grubbed of all stumps, roots, buried logs, decayed vegetable matter, and other objectionable materials, as is necessary for the proper reception, construction, execution, and completion of work included in this contract.

The Contractor shall protect from injury and damage all surrounding (including adjacent property lines of the project site) trees, plants, etc., and shall leave all in as good as condition as at present. Any damage to existing improvement shall be repaired or replaced by the Contractor to the satisfaction of the Engineer.

Debris from clearing and grubbing operations shall not be placed in streams, water courses or at locations that will impede flow of the natural drainage pattern.

3.07 TOPSOIL EXCAVATION

A. Strip topsoil from areas that are to be filled, excavated, landscaped or re-graded to such a depth that it prevents intermingling with underlying subsoil or questionable material.

Cut heavy growths of grass from areas before stripping and remove with the rest of the cleared vegetative material.

Topsoil shall consist of organic surficial soil found in depth of not less than **6**". Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones and other objects over **2**" in diameter, weeds, roots, and other objectionable material.

Stockpile topsoil in storage piles in areas shown or where directed. Construct storage piles to freely drain surface water. Cover storage piles as required to prevent windblown dust. Dispose of unsuitable topsoil as specified for waste material, unless otherwise specified by owner. Excess topsoil shall be removed from the site by the Contractor unless specifically noted otherwise on the Drawings.

3.08 CLEANUP OF PREMISES

A. Clean up and remove all debris accumulated from construction operations from time-to-time as directed. Upon completion of the construction work and before final acceptance of the contract work, remove all surplus materials, equipment, scaffoldings, etc., and leave entire job site raked clean and neat to the satisfaction of the Engineer.

3.09 DUST CONTROL

A. Dust shall be controlled in accordance with the air pollution control rules of the State Department of Health and avoid creating of a nuisance to the surrounding areas. Use of water will be permitted provided it does not result in, or create, a hazardous condition such as flooding or pollution.

The Contractor shall coordinate the use of water for construction activities with the Project Manager. DHHL will make water available to the Contractor for quantities as approved by the Project Manager. Contractor Monitoring shall be as accepted or directed by the Project Manager

3.10 TRAFFIC CONTROL AND ACCESS

- A. The Contractor shall provide traffic control in accordance with MUTCD requirements and conduct operations with minimum interference to streets, driveways, sidewalks, etc.
- B. When necessary, the Contractor shall provide temporary access, erect and maintain lights, barriers, flagmen, etc. as required by traffic and safety regulations with special attention to protection of life.
- C. The Contractor shall provide continuous access to all private properties.

3.11 LAYING OUT

- A. The laying out of base lines, establishment of grades and staking out the entire work shall be done by a surveyor (licensed in the State of Hawaii).
- B. Should any discrepancies be discovered in the dimensions given in the plans, the contractor shall immediately notify the Construction Manager before proceeding any further with the work, otherwise, he will be held responsible for any costs involved in correction of construction placed due to such discrepancies.

3.12 CONTRACT AREA LIMITS

A. The contract area limits extending throughout the peripheral boundary indicate only in general the limits of the work involved. The Contractor, however, is required to perform any and all necessary and

incidental work which may fall outside of these demarcation lines. The Contractor is also expected to confine all of his construction activities within the contract area limits and repair all disturbed areas.

SECTION 02200 - EARTHWORK

PART 1 – GENERAL

1.01 SCOPE OF WORK

A. This section provides for furnishing of all labor, materials and equipment necessary to perform all earthwork indicated on the drawings and specified herein.

1.02 GENERAL REQUIREMENTS

A. All work shall be done in accordance with:

"Ordinance #2684" of County of Maui pertaining to soil, erosion, and sediment control.

"Chapter 20" of Maui County Code relating to Grading, Soil Erosion, and Sediment Controls.

Applicable provisions contained in Hawaii Administrative Rules Title 11, Chapter 46 "Community Noise Control for Oahu";

Title 11, Chapter 54 "Water Quality Standards";

Title 11, Chapter 55 "Water Pollution Control";

Title 11, Chapter 60.1 "Air Pollution Control",

NPDES Individual Permit Coverage for the project: (N/A for less than one acre of disturbed area)

Specific sections of the State's <u>Standard Specifications for Road, Bridge, and Public Works Construction</u>, dated 2005, as amended hereafter referred to as the <u>State's Specifications</u> with deletion of subsections relating to measurement and payment in all sections incorporated herein and further modifications to such sections as hereinafter provided

Specific and applicable/appropriate sections of the County's <u>Standard Specifications for Public Works Construction</u> of the Department of Public Works County of Maui, dated September 1986, as amended hereinafter referred to as the County's Specifications

Soils report, "Geotechnical Engineering Consultation, Kanakaloloa Cemetery Improvements" By GeoLabs, dated 10/22/15

- B. Grading shall be carried to the lines and grades as shown on the drawings or as directed by the Engineer.
- C. On-site material should be screened of oversized materials and conditioned per the recommendations in the soils report.
- D. Non-expansive granular fill material should consist of crushed basalt or

coral and shall conform to the recommendations in the soils report.

1.03 PROJECT RECORD DOCUMENTS

Maintain existing utilities and accurately record location of newly encountered utilities that are to remain, re-routed utilities and new utilities by horizontal dimensions, elevations or inverts and slope gradients.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Material imported or excavated on the property may be utilized in the fill, provided each material conforms to the specifications herein. Roots, tree branches, and other deleterious materials missed during clearing operations shall be removed from the fill. All excavated and imported material used for fill shall conform to the recommendations in the Soils Report.
- B. Material that is spongy, subject to decay or otherwise considered unsuitable shall not be used in the compacted fill.

PART 3 – EXECUTION

3.01 CONTRACTOR'S RESPONSIBILITIES

- A. The Soils Engineer, when designated, is the Contractor's earthwork representative on the project. For the purpose of these specifications, inspection by the Soils Engineer includes that monitoring and testing performed by any person or persons employed by and responsible to, the licensed Engineer who is the contractor's representative to ensure compaction and other requirements are met by the contractor.
- B. The words "supervision", "inspection", or "control" shall mean periodic observation of the work (and the taking of soil tests as deemed necessary) by the Soils Engineer for substantial compliance with plans, specifications and design concepts.
- C. The presence of the Contractor's Soils Engineer will be for the purpose of providing observation and field testing. The service does not include supervision or direction of the actual work of the Contractor, his employees or agents. The Contractor should also be informed that neither the presence of the field representative nor the observation and testing shall excuse him in any way for defects discovered in his work. It is understood that the Soils Engineer will not be responsible for job or site safety on this project. Job and the site safety will be the sole responsibility of the Contractor.
- D. All clearing, site preparation or earthwork performed on the project up to the approximate finish grade or roadway subgrades shall be conducted by the Contractor under the inspection of the Soils Engineer.
- E. It is the Contractor's responsibility to prepare the ground surface to receive the fills and to place, spread, mix, moisture condition, and compact the fill in accordance with the specifications herein. The

Contractor shall also remove all unsuitable and deleterious materials.

- F. It is also the Contractor's responsibility to have suitable and sufficient compaction equipment on the job site to handle the amount of fill being placed. If necessary, excavation equipment shall be shut down to allow completion of compaction. Sufficient watering apparatus will also be provided by the Contractor with due consideration for the fill material, rate of placement, and the time of year.
- G. It is the responsibility of the Soils Engineer to promptly notify both the Contractor and the Construction Manager verbally of any failing compaction tests or lack of compliance with specifications.

These items shall also be documented by the Soils Engineer.

3.02 SITE PREPARATION

- A. All vegetation and deleterious materials such as rubbish shall be cleared and disposed of off-site. This removal shall be completed prior to excavating and filling.
- B. Soil or rock materials determined as being unsuitable for placement in compacted fill shall be removed and wasted off-site. Any material incorporated as a part of the compacted fill must be approved by the Soils Engineer and meet the requirements of the Soils Report. Organically contaminated topsoil shall be stripped prior to actual grading.
- C. Any abandoned underground structures such as cesspools, cisterns, tunnels, septic tanks, wells, pipelines, or others not located prior to grading are to be removed and the resulting depression backfilled and compacted in accordance with these specifications, and the Soils Report.
- D. In areas to be filled and at finished subgrade elevation in cut or excavated areas, the exposed surface shall be proof-rolled and compacted, under observation of the soils engineer, to check for soft areas due to poorly compacted fill, loose surface soils, or the presence of near surface cavities within the coralline formation.
- E. Where soft or unstable conditions are encountered during these operations, the Soils Engineer shall be notified immediately so that supplemental recommendations can be made prior to the commencing of fill placement.
- F. Any cavities revealed by the subgrade inspection and/or proof-rolling shall be excavated and replaced with compacted structural fill, lean concrete, flowable fill or grout.
- G. When the embankment is to be constructed on an existing slope exceeding **five:one** (5:1) horizontal to vertical, the existing slope shall be benched by horizontal terraces into firm ground prior to fill placement. The fill shall be placed beginning in the lowest elevations.
- H. The in situ soils below structural footings, slabs on grade, pavements, below select borrow material, shall be scarified to a depth of 8 inches and moisture conditioned to 2% above the optimum moisture content, and

compacted to 90% relative compaction per the Soils Report.

3.03 COMPACTED FILLS

- A. Material used in the construction of the structural fills which underlie structures, footings, slabs on grade or pavements shall be evenly spread; moisture conditioned to 2 percent above optimum moisture content and compacted in approximately level lifts not exceeding 8" in loose thickness to at least 90 percent of its maximum dry density as determined by ASTM D 1557-78. Non-structural fills for landscaping and general fill areas shall be compacted to at least 85 percent of its maximum dry density as determined by ASTM D 1557-78.
- B. The fill shall be placed and compacted on a horizontal plane with a sufficient gradient to prevent ponding of water in the fill. Saturation and subsequent "pumping" of the fill due to inclement weather and lack of drainage shall require scarification and recompaction of the material by the Contractor at the Contractor's expense.
- C. Any areas to receive fills under structures, footings, slabs on grade, or pavements should be scarified to a depth of 8 inches, moisture conditions to 2% above the optimum moisture content, and compacted to at least 90% of the maximum density as determined by ASTM D1557.
- D. Except where the finish grade or subgrade has been attained, should the selected type of compaction equipment result in a sufficiently polished surface after compaction to prevent proper bonding of subsequently placed fill materials, shallow scarification of this surface shall be completed.
- E. If the moisture content or dry density varies from that specified, the Contractor shall rework the fill until the specified levels of compaction and moisture content are attained. Additional fill material shall not be placed on any fill layer, which has not been properly compacted. Subsequent removal of any unacceptable layer shall be done at the Contractor's expense.
- F. Fill material placed within 24 inches of the final roadway grade or subgrade shall be compacted to 90 percent of the maximum density as determined by **ASTM D1557**.
- G. The Contractor shall be required to obtain the above-specified levels of compaction out to the finish slope face of fill slopes. This may be achieved by overbuilding the slope and cutting back to the compacted core; or by direct compaction of the slope face with suitable equipment, or by any other procedure, which produces the required compaction.
 - 1. If a method other than overbuilding and cutting back to the compacted core is to be employed, slope tests will be made by the Soils Engineer during construction of the slopes to determine if the required compaction is being achieved.
 - 2. If the method of achieving the required slope compaction selected by the Contractor fails to produce the necessary results, the

Contractor shall rework or rebuild such slopes until the required degree of compaction is obtained, at no additional cost to the Owner.

- H. Fill placed against previously graded cut or fill slopes shall be properly keyed through topsoil or loose slope material into firm material, and the transition stripped of loose material prior to fill placement. Fill shall be placed and compacted from the low side up.
- I. All fill slopes should be planted or protected from erosion.

3.04 EXCAVATIONS

- A. Excavated on-site materials may be utilized as compacted fills as specified in Section 02100 3.06 (Clearing and Grubbing of Site), and per the Soils Report requirements.
- B. Subgrade materials that are determined to be unsuitable or unsatisfactory for its intended use shall be overexcavated to such depth and width as required by the field conditions.
- C. Materials determined to be unsuitable by the Soils Engineer shall be wasted off-site.
- D. Over-excavated areas, whether due to Contractor's error or the encountering of unsuitable materials, shall be brought back up to grade with approved fill materials, uniformly compacted as required in the Soils Report.
- E. Excavation of the slopes shall be finished with all slopes cut true and straight as shown by the plans and in conformance with the "Standard Specifications for Public Works Construction", Chapter 20 of Maui County Code relating to grading, and the recommendations of the Soils Report.
- F. No cut slopes shall be excavated higher or steeper than that allowed by the ordinances of the controlling governmental agencies.
- G. Over excavation or overcutting of the slope due to the Contractor's negligence shall be corrected to the satisfaction of the Owner at the Contractor's expense.
- H. If any conditions not described in the contract documents such as perched water, seepage, lenticular or confined strata of a potentially adverse nature are encountered during grading, these conditions shall be immediately brought to the attention of the Engineer, Construction Manager and the Soils Engineer so that supplementary recommendations can be made to treat these problems.

3.05 GRADING CONTROL

- A. Observation of the fill placement shall be provided by the Soils Engineer during the progress of grading.
- B. Compaction testing shall be performed in accordance with the recommendations in the Soils Report, or per Plan.

C. Where failing tests occur or other field problems arise, the Contractor and the Owner's representative will be verbally notified of such conditions followed by written communication from the Soils Engineer.

3.06 PAVEMENTS

The subgrade soils below the pavement areas shall be scarified, compacted to at least **95 percent** relative compaction, proof-rolled and tested in accordance with the recommendations in the Soils Report. The base and subbase material including minimum thickness requirements of the roadway pavement shall be as recommended in the Soils Report and as required by the "Standard Specifications for Public Works Construction". The base and subbase material shall be placed and compacted as recommended in the Soils Report and as required by the "Standard Specifications for Public Works Construction." The in situ subgrade soils should be scarified to a minimum depth of 8" and moisture conditioned to 2% above the optimum moisture content, and recompacted to no less than 90% compaction.

3.07 SLABS ON GRADE

A. Cap the on-site expansive soils with minimum of 12" of non-expansive select granular fill below the slab cushion material.

3.08 FINISHING

The completed excavation and fill surfaces shall be true to the grade and elevation shown on the plans and shall provide a firm base. Finished surfaces shall also conform to the slopes and drainage patterns shown on the plans. Tolerances shall be **0.05 feet** for the road areas and **0.10 feet** for other areas.

3.09 BENCHMARKS

Protect and maintain benchmarks, monuments, and other reference points; if disturbed or destroyed, replace to original state.

3.10 UTILITY LINES

Existing utility lines indicated or locations of which are made known to the Contractor prior to excavation, and that are indicated to be retained, as well as utility lines constructed during excavation operations, shall be protected from damage during excavating and backfilling, and if damaged, shall be repaired at no additional cost to the Owner. If utility lines that are not indicated or that the Contractor is not aware of are encountered or damaged, the Engineer shall be notified immediately.

3.11 SPECIAL CONSIDERATIONS

- A. Erosion control measures shall be provided by the Contractor during grading and prior to the completion and construction of permanent drainage controls. The Contractor shall be responsible for providing protection to graded areas against action of the elements.
- B. Upon completion of grading or temporary interruption of grading and the subsequent termination of inspection by the Soils Engineer, no further filling or excavating shall be performed without notifying the Owner and

- Soils Engineer in advance and ascertaining their requirements.
- C. Care shall be taken by the Contractor during final grading to preserve any berms, interceptors, swales, drainage terraces or other devices of a permanent nature on or adjacent to the property.
- D. Contractor shall exercise extreme care while working between the burial plots and grave sites and markers/headstones.

SECTION 02302 – TRENCHING, EXCAVATION, AND BACKFILLING FOR UTILITIES

PART 1 - GENERAL

1.01 DESCRIPTION

- Α. This item shall consist of trenching, excavating, and backfilling for utilities and their appurtenances complete. Except as specified otherwise herein, the work shall be in accordance with Section 02200 - EARTHWORK.
- B. All work shall be in accordance with County of Maui Standard Specification for Public Works Construction 1986; including but not limited to:

Trench Excavation and Backfill Roadway Excavation

PART 2 - PRODUCTS

2.01 BACKFILL MATERIALS

- Backfill the trench with excavated on-site materials or imported materials Α. as described herein below.
 - 1. Place a 6-inch thick granular bedding consisting of No. 3B fine gravel in accordance with ASTM C33, No. 67 gradation, or 3/4-inch minus, well-graded granular material below the utility pipe inverts.
 - 2. For the first lift from the bottom of the pipe to 12 inches above the pipe barrel, install granular material such as cushion fill. No. 3B fine gravel in accordance with ASTM C33, No. 67 gradation, or 3/4-inch minus, well-graded granular materials.
 - 3. For the intermediate lift from 12 inches above the pipe barrel to the proposed subgrade, the backfill shall be either approved native material or structural fill material, which consists of well-graded granular materials of 6 inches in maximum dimension with sufficient fines to prevent the occurrence of voids in the compacted mass.

PART 3 - EXECUTION

3.01 **EXCAVATION**

- Α. Trenching:
 - 1. Trenching shall be carried to the lines and depths indicated and required for the proper installation of structures. The bottom of the trenches shall be excavated to sufficient depth for the installation of bedding material.

Trenches shall be excavated to a minimum of 6 inches on either side of the piping or structures, and to such additional widths as

required for proper installation and inspection. The bedding material supporting the piping shall be compacted and shaped to fit the bottom quadrant of the piping with allowance for bells and joining. Trenches shall be kept dry and clean and shall be properly protected from the entry of surface water.

B. Unsuitable Materials

1. When unsuitable material is encountered at the trench excavation, the Contractor shall be responsible for hauling and disposing of the material.

C. Additional Excavation

1. When the subgrade material below the established trench grade is unstable, such as muck, buried debris or lava cavities, excavate below grade to such depth and width as directed by the Soils Engineer. Fill the excavated area below grade with structural fill or crushed rock cushion fill to within 6 inches of the invert grade or to the bottom of the concrete jacket or cradle.

D. Over-Excavation

- 1. Refill and compact any part of the trench bottom excavated below the established grade with structural fill material to within 6 inches of the pipe invert or to the bottom of the concrete jacket or cradle.
- 2. Trench backfill materials shall be homogenous and shall extend horizontally to the limits of trench over-excavation.
- 3. Contractor shall backfill and compact all over-excavated areas at his own expense.

E. Surplus Material

 Material resulting from trench and structure excavation shall be used by the Contractor for backfilling, filling and grading to the extent required as specified elsewhere in these specifications. The Soils Engineer shall determine whether or not excavation material is suitable for use as fill. All unsuitable material shall be disposed of off-site by the Contractor.

3.02 BACKFILLING AND COMPACTING

- A. The first lift shall be backfilled by hand shoveling and tamping so that the backfill materials are in contact with the entire periphery of the pipe. Power equipment shall be of the front loader type where unloading of backfill material into the trench can be controlled so that the pipe is not damaged nor moved from its installed position. The backfill shall be compacted to a minimum of 90 percent relative compaction.
- B. The work shall be performed without damage to the pipe and trench and in such a manner, that water will not be impounded.

- C. All trench backfill placed above 12 inches of the top of the pipes shall be compacted in maximum loose lift thickness of 8 inches unless specifically authorized in writing by the Soils Engineer. The Soils Engineer may require thinner lifts should compaction operations consistently fail to produce the specified compaction requirements. In any event, the required levels of compaction shall be obtained throughout the full depth and width of each layer of backfill.
- D. Compaction of trench backfill shall not be less than 90 percent relative compaction. The compaction requirement of the trench backfill within 3 feet of the finished grade shall be a minimum of 95 percent relative compaction.
- E. Mechanical tamper or vibratory compactor may be used in compacting each layer provided that the backfill lift thickness takes into account the size of the compaction equipment used.
 - 1. The Contractor shall be responsible for protecting the pipe or structure while placing and compacting the backfill material.
- F. Jetting shall not be permitted. All backfilling shall be under the observation of the Soils Engineer. The Contractor shall notify the Soils Engineer prior to any backfilling.

3.03 EXISTING UTILITY LINES

A. All underground lines, which are to remain, shown on the drawings or made known to the Contractor, and are in the path of new sanitary sewer, water or storm drain lines shall be uncovered at points where they are in the path of such new piping. The sizes and invert elevations of the existing pipe and manholes shall be ascertained and any discrepancies, which would prevent the Contractor from laying lines to the established grades shall be brought to the attention of the Contracting Officer immediately and before commencing work.

3.04 RESTORATION OF EXISTING PAVEMENT AND OTHER IMPROVEMENTS

A. All restoration work shall conform to the requirements of the jurisdictional government agencies and under these specifications. Unless specified otherwise in the proposal, restoration work shall be considered as incidental to the various related items of work.

SECTION 02510 – WATER DISTRIBUTION STATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Water System Standards, 2002, for the Department of Water Supply, County of Maui

PART 2 - 1.01SCOPE OF WORK

- A. The extent of the water system work is indicated on the drawings.
- B. The work covered by this Section consists of furnishing and installing water lines, valves, flow meters, appurtenances as indicated by the CONTRACT documents.

PART 2 – SUBMITTALS

2.01 <u>APPLICABLE DOCUMENTS</u>

Contractor shall submit plans, reports, certificates of compliance, manufacture data, shop drawings, manufacturer installation instructions, modeling analysis, and operator manuals for the following materials and testing to be furnished under this Contract:

- Construction Phasing plan/schedule including water system/service interruptions, advance notification of water system customers and Molokai Fire Department of system service interruptions and use restrictions.
- 2. Pipe and fittings
- Gate valves
- 4. Flow/Pressure regulators
- 5. Pressure gages
- 6. Reports for testing including certified bacteriological tests as called for by the contract documents.
- 7. Reports for pressure testing as called for by the contract documents.

2.02 MATERIALS

A. Water system to include but not limited to pipes, valves, fittings, corporation stops, cocks, nuts/bolts, etc. shall conform to the Water System Standards, 2002 for the requirements of the Department of Water Supply, County of Maui, and all subsequent amendments and additions unless otherwise indicated herin and on the drawings.

- B. Material shall be new. Materials shall be free of defects from manufacturing, storage, or handling.
- C. Material required to complete the water system work shall be furnished by the Contractor.
- D. Gate Valves 4 Inches and Larger shall be resilient-seated per the Maui DWS requirements in the Water System Standards. Valves smaller than 4 inches shall be as indicated on the drawings and per the Maui DWS Standards. Valves shall be provided with hand wheels or two-inch operating nuts as indicated on the drawings as approved by the Project Manager.
- E. All nuts and bolts for pipes, tapping sleeves, fittings including couplings, valves etc. shall be stainless steel in accordance with the Maui Water System Standards.
- F. Concrete Work shall conform to Sections 302.22 and 303.03 of the Water System Standards.

PART 3 - EXECUTION

3.01 WATER SYSTEM

A. <u>General Requirements</u>:

Construction of water mains, valves, and appurtenances shall be in accordance with the Water System Standards. The Contractor shall perform all work including but not limited to excavation, backfill, connections, cleaning/flushing, pressure/leakage testing, chlorination, and concrete work.

B. Maintenance of Water Supply and Service:

Water supply and service shall be maintained at all times unless otherwise approved by the Project Manager. Interruption of service shall be coordinated in advance with the Project Manager. Operation of existing valves will be by the DHHL water system staff as authorized by the Project Manager

C. Cleaning and Painting of Pipes and Fittings:

Exposed surfaces to include nuts and bolts shall be cleaned with a wire brush to remove foreign and loose material to include dirt, dust, rust and coatings. Cleaning shall then follow with sanding to provide a clean and smooth surface for the paint adherence. Existing coating remaining and final cleaned surfaces shall be accepted by the Construction Manager before painting.

Painting for ductile iron shall be with a coat of asphaltum paint. A second coat shall be applied as directed by the Construction Manager.

Painting for Galvanized steel pipe and galvanized nuts and bolts shall be with a coat of RUST-OLEUM cold applied galvanizing compound or approved equivalent. A second coat shall be applied as directed by the Construction Manager.

PVC, copper, brass or bronze surfaces and gaskets shall not be cleaned and painted except as specified herein. Copper piping and tubing exposed to the elements and straps and anchors shall be painted with two field coats of exterior latex paint. Painting is to mask the copper material from observation. Paint color shall be gray approximately matching concrete color. Painting shall be done in a neat manner with minimal over painting.

D. Construction Phasing:

Contractor shall notify coordinate in advance of any interruption or restrictions as a result of the Contractor's work or operations to water service and flow with the Molokai Fire Department as accepted by the Project Manager.

E. Permits, Notice, Etc:

The Contractor shall prepare, distribute, and pay for all Public notices in newspapers and via mail regarding the project. The Contractor shall notify the owners of private properties at least 1 week prior to impacting their property.

SECTION 02520 - PAVING, ROADWAY AND MISCELLANEOUS WORK

PART 1 – GENERAL

1.01 SCOPE OF WORK

A. This section includes preparation of subgrades for road, driveways and parking areas; the furnishing and laying of the select borrow, base course, prime coat, tack coat, asphaltic concrete and/or Portland cement concrete pavements, curbs and gutter, sidewalks, paths and miscellaneous works.

PART 2 - PRODUCTS

2.01 REFERENCED SPECIFICATIONS AND STANDARDS

The following specifications and standards of the issues listed below, including the amendments, addenda and errata, form a part of this specification to the extent required by the references thereto. Paragraphs concerning Measurements and Payments in the sections are not applicable.

- A. <u>Standard Details for Public Works Construction</u>, the Department of Public Works, County of Maui, September 1984, including any amendments.
- B. <u>Hawaii Standard Specifications For Road, Bridge And Public Works Construction</u>, State of Hawaii Department of Transportation dated 2005, and any amendments.
- C. <u>Standard Specifications for Public Works Construction</u>, the Department of Public Works, County of Maui, September 1986, including any amendments:

Portland Cement Concrete Concrete Curb and Gutter Concrete Sidewalk Concrete Blocks, Cradles and Jackets Cement Rubble Masonry

2.02 MATERIALS

A. Materials, construction and installation shall conform to the applicable sections of the <u>Standard Specifications for Public Works Construction</u> of the Department of Public Works, County of Maui, September 1986, including any amendments. And the <u>Hawaii Standard Specifications For Road, Bridge And Public Works Construction</u>, State of Hawaii Department of Transportation dated 2005.

PART 3 – EXECUTION

3.01 Construction and installations shall conform to the applicable sections of the <u>Hawaii</u> Standard Specifications For Road, Bridge And Public Works Construction, State of Hawaii Department of Transportation dated 2005, and the Standard Specifications

<u>for Public Works Construction</u>, the Department of Public Works, City and County of Honolulu, September 1986, including any amendments.

Details shall conform to the <u>Standard Details for Public Works Construction</u>, County of Maui, September 1984, including any amendments, unless shown otherwise.

SECTION 02740 – ASPHALT CONCRETE PAVING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

A. Related Work Described Elsewhere:

Pavement striping is specified in Section 02760 – PAVEMENT MARKING AND SIGNAGE.

B. All work shall be done in accordance with:

Specific sections of the State's <u>Standard Specifications for Road</u>, <u>Bridge</u>, <u>and Public Works Construction</u>, dated 2005, as amended hereafter referred to as the <u>State's Specifications</u> with deletion of subsections relating to measurement and payment in all sections incorporated herein and further modifications to such sections as hereinafter provided.

Specific sections of the County of Maui's <u>Standard Specifications</u> for <u>Public Works Construction</u> of the Department of Public Works, dated September 1986, as amended hereinafter referred to as the <u>County's Specifications</u>; including but not limited to:

Asphalt Surface Treatment
Asphalt Concrete Pavement
Asphalt Concrete Resurfacing
Adjustment of Existing Utility Structures to Finished Grade
Restoring Pavements and Other Improvements

1.02 DESCRIPTION

Work under this section consists of furnishing all labor, materials and equipment to complete the asphalt concrete paving as shown on the Drawings and as specified herein.

Work under this section consists of spraying weed killer on the prepared roadway subgrade prior to the installation of the base course and where called for on the drawings and also on existing growth prior to application of asphalt in the case of resurfacing jobs.

1.03 SOILS TESTING AND ANALYSES

A Geotechnical Engineer or technician, provided by the Contractor, shall be present at the site to observe and direct paving operations and to take density or make visual tests as appropriate. Where low density test results are noted, the area shall be reworked by the Contractor and retested.

If the field observations and test results, in the opinion of the testing personnel or Geotechnical Engineer indicate that the paving is not in general conformance to the intent of the Drawing and Specifications, the discrepancy shall be reported to the Contractor for corrective action with the Construction Manager notified.

1.04 **SUBMITTALS**

Submit manufacturer's certificates of conformance for each type of bituminous material and for the job mix formula.

Submit material product data and Material Safety Data Sheets.

Submit certification that the specified herbicides were applied at the specified application rate over the entire subgrade to be paved.

PART 2 - PRODUCTS

2.01 <u>ASPHALT CONCRETE PAVEMENT MATERIALS</u>

Materials for roads and parking areas, walkways, and other foot traffic areas shall be in accordance with the appropriate Sections of State of Hawaii Department of Transportation Standard Specifications For Road, Bridge And Public Works Construction, dated 2005. Paragraphs concerning Measurements and Payments in the sections are not applicable. Where recycled glass is available at a cost no greater than that of the equivalent aggregate, the aggregate base course and subbase course shall contain recycled glass as specified in Section 717 of the State of Hawaii Department of Transportation Standard Specifications.

Use Mix No. IV for parking areas and Mix No. IV for private driveways.

2.02 HERBICIDES

- A. Pre-Paving Vegetation Destruction: "Casoron 4G", "Norosac 4G", for under asphalt application on new or rebuilt pavement, and shall be "Hyvar X", "Roundup" for application to existing weeds for resurfacing jobs.
- B. Pre-Emergence Control: Herbicide shall be Treflan by Elanco Products Company or accepted equivalent.

PART 3 – EXECUTION

3.01 SURFACE PREPARATION

The subgrade shall be prepared and compacted in accordance with the requirements of the appropriate Sections of the State of Hawaii Department of Transportation Standard Specifications For Road, Bridge And Public Works Construction, dated 2005. Soil tests shall be made at

the subgrade level and the final pavement structure verified or modified as necessary.

Mix the under asphalt weed killer and uniformly spread using calibrated application equipment at the maximum rates permitted for under asphalt use. Install base course material as soon as possible after applying the weed killer to preclude loss of germination inhibiting action.

In treatment of existing growth on resurfacing jobs, mix the weed killer and uniformly spray.

Retreat nut grass and weeds two (2) days after initial application and again if growth still exists.

Notify the Construction Manager 24 hours before application of weed killer.

Apply pre-paving herbicide to all new pavement areas. Application shall not be made immediately after heavy rains or when rain is forecasted within the next 48 hours. The herbicide shall be applied in accordance with the manufacturer's recommended procedures and rates. Perform two herbicide applications at least three days apart.

3.02 AGGREGATE BASE COURSE

The base course shall be constructed in accordance with the appropriate Sections of the State of Hawaii Department of Transportation Standard Specifications For Road, Bridge And Public Works Construction, dated 2005. Field density tests shall be made by the Soils Engineer to verify that the compaction obtained meets the Specifications.

Apply pre-emergence herbicide on the prepared base for new asphalt concrete pavements in accordance with the manufacturer's recommendations.

3.03 ASPHALT CONCRETE PAVEMENT

- A. The asphalt concrete pavement shall be constructed in accordance with the appropriate Sections of the State of Hawaii Department of Transportation Standard Specifications.
- B. Provide a prime coat over newly constructed base course where the longitudinal grade of the pavement is **8 percent** or more, or where the asphaltic concrete pavement thickness is less than **4 inches**.

Where a prime coat is provided, control runoff and protect adjacent work, property, utilities, waterways, and other areas against damage.

- C. Smoothness. The finished surface of the pavement shall be true to grade and cross section, free from depressions and grainy spots, and of uniform texture. It shall not vary more than 1/8 of an inch over 10 feet.
- D. Surface Tolerance. The finished surface of the asphalt concrete pavement shall be within **0.02 feet** above or below the theoretical grade.

3.04 PAVEMENT STRIPING

Pavement striping shall be as specified in Section 02760 – PAVEMENT MARKING AND SIGNAGE.

SECTION 02760 - PAVEMENT MARKING AND SIGNAGE

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. The work in this Section shall be in accordance with the appropriate Sections of the State of Hawaii Department of Transportation Standard Specifications For Road, Bridge And Public Works Construction, dated 2005. Paragraphs concerning Measurements and Payments in the sections are not applicable.
- B. These specifications shall amend Section 629 Pavement Markers, Striping and Markings of the DOT Standard Specifications.
- C. These specifications shall amend Section 621 Destination, Directional, Regulatory and Warning Signs of the DOT Standard Specifications.
- D. These specifications shall amend Section 755 Pavement Marking Materials of the DOT Standard Specifications
- E. Related Work Described Elsewhere:

Roadway paving is specified in Section 02740 – ASPHALT CONCRETE PAVING.

All references to measurement and payment shall be deleted.

1.02 DESCRIPTION

Work under this Section consists of furnishing all labor, materials and equipment to complete the roadway stripping, pavement markers and signage on the Drawings and as specified herein.

1.03 SUBMITTALS

Submit manufacturer's documentation(s) of compliance to the requirements listed herein, including but not limited to Certifications, Manufacturer's Product Data Sheets, and Manufacturer's Material Safety Data Sheets, for all materials herein specified.

PART 2 - PRODUCTS

2.01 TRAFFIC PAINTS

- A. Reflectorized traffic paint shall conform to the requirements of Premixed Reflectorized White and Blue Traffic Paint.
- B. Only those traffic paints which have qualified in the latest completed prequalification tests conducted by the State Department of Transportation and having a Weighed Rating (W) of at least **6.5** for reflectorized white and for reflectorized blue at the completion of the road

- test will be permitted for use on this project. Quick-dry paints shall not be used.
- C. The phase "latest completed prequalification tests" shall mean either those traffic paints which have been prequalified by the State Department of Transportation at the time this Contract becomes effective or those traffic paints which have been listed by the State Department of Transportation as meeting the State Department of Transportation's prequalification tests at the time the Contractor is doing the pavement striping.
- D. The following Traffic Paints are acceptable:

| Туре | Brand | Stock Order Formula No. |
|---|--|--|
| Pre-Mixed Reflectorized, Water Borne, White Traffic Paint | Centerline Company Centerline Morton Pervo Ameritone | CL-5022 CL-6044 2683A9 6000R 022683 |
| Pre-Mixed Reflectorized, Solvent Based, White Traffic Paint | J.E. Bauer Company J.E. Bauer Morton (Centerline) Pervo | 892A9 2581A9 8036C1 5550R |
| Ready-Mixed, Reflectorized Water Borne, Lead-Free, Blue Traffic Paint | In accordance with Federal Spec No. TT-P-1952D | In accordance with Federal Spec No. TT-P- 1952D |

2.02 PAVEMENT MARKERS

- A. Markers: Rectangular, clear, highly impact resistant plastic top embossed with striated prismatic patterns on the underside. Underside is lined with a highly polished reflectorized plastic lens which is colored yellow for roadway centerlines or blue for fire hydrants. Interior of top is filled with a poured material which reinforces the impact resistant plastic top. Reflector shall meet requirements of the State of Hawaii Department of Transportation Standard Specifications For Road, Bridge And Public Works Construction, dated 2005.
- B. Adhesive: Provide standard set type or rapid set type pavement marker adhesive compatible with roadway surface in compliance with the State of Hawaii Department of Transportation Standard Specifications For Road, Bridge And Public Works Construction, dated 2005 and 1994.

C. Adhesive solvent: Provide manufacturer's recommended solvents to remove excess adhesive from roadway or marker.

2.03 SIGNS

Signs shall conform to the requirements of the Manual on Uniform Traffic Control Devices for Streets and Highways, 2009 Edition, as amended, by the Federal Highway Administration.

2.04 SIGN POSTS

Sign posts shall be square tube with anchor sleeves. Posts shall be FHWA approved for breakaway standards.

PART 3 – EXECUTION

3.01 CONSTRUCTION REQUIREMENTS

- A. Work shall conform to the requirements of Section 629.03 of the State of Hawaii Department of Transportation Standard Specifications and as herein below specified.
- B. Before application of the markings, the portion of the roadway surface in the work area shall be thoroughly cleaned of all dust, dirt, curing compound, grease, oil, moisture, loose or unsound layers and any other material which would adversely affect the bond of the markings.
- C. Traffic stripes shall be of the length, width, and placement specified or to match existing. Unless otherwise specified, the Contractor shall establish control points, satisfactory to the Engineer, spaced at intervals that will insure accurate locations of the stripe.
- D. No markings shall be applied when moisture or foreign matter is present on the surface to be marked, or when wind conditions are such as to cause dust to be deposited on the prepared areas or to prevent satisfactory application of the marking.
- E. The Contractor shall apply all pavement striping before opening roadways to public traffic except that when connections to existing pavements are made or when temporary detours carry public traffic, the Contractor shall stripe the connecting pavements on the day that the roadway is open to traffic. If it is necessary to run public traffic over roadways which have not received final striping, the Contractor shall paint temporary guide dashes at the traffic stripe location on the pavement as guidance for drivers until the permanent striping can be installed.
- F. The Contractor shall install temporary guidelines and outline of legends and crosswalks with a **2-inch** wide line on the day the roadway is opened to traffic, which shall be approved by the Engineer before permanent lines are installed.

- G. The Contractor shall furnish and place all warning and directional signs necessary to direct and control the traffic during the striping operations. Warning signs shall be set up before the beginning of each operation and extra signs shall be kept well ahead of the marking equipment. The freshly marked stripe shall be protected by cones or other satisfactory devices until the traffic marking is dry and will not transfer to car tires. The drying time for no pickup shall be not less than 5 minutes or more than 40 minutes. All stripes damaged by traffic, or pavement marked by traffic crossing wet marking, shall be repaired or corrected as specified below.
- H. Perform thermoplastic marking in accordance with the requirements of Section 629.03(C)(3) of the State of Hawaii Department of Transportation Standard Specifications For Road, Bridge And Public Works Construction, dated 2005.
- I. Traffic paint shall be applied in two separate coats at a nominal film thickness of 0.015 inch. The traffic paint applicator machine shall have appropriate shields or nozzle controls which will permit sharp pavement stripe definition. The traffic paint applicator machine shall have an air stream nozzle which can direct compressed air immediately before the area of paint application for the purpose of cleaning the pavement prior to paint application.
- J. Pavement legends shall be applied with appropriate templates.
- K. No stripe shall be less than the specified width. No stripe shall exceed the specified width by more than 2 inches. The length of the 15-foot painted segment for skip stripe may vary plus or minus 1 foot and the 25-foot gap between segments may vary plus or minus 1 foot. The alignment of the stripe shall not deviate from the intended alignment by more than 1 inch on tangents and on curves up to and including 1 degree. On curves exceeding 1 degree, the alignment of the stripe shall not deviate from the intended alignment by more than 2 inches.
- L. All stripes and segments of stripes shall present a clean-cut, uniform and workmanlike appearance. All markings which fail to have a uniform, satisfactory appearance shall be corrected by the Contractor at his expense.
- M. Traffic striping which fails to meet the requirements specified herein, or is marred or damaged by traffic or from other causes, shall be corrected prior to acceptance by the Owner at the Contractor's expense. For all misted areas, drip and spattered paint and excess markings shall be removed to the satisfaction of the Owner. When it is necessary to remove paint or markings, it shall be done by means which will not damage the underlying surface of the pavement. When necessary to correct a deviation which exceeds the permissible tolerance in alignment, that portion of the stripe so affected shall be removed plus an additional 25

feet in each direction, and a new stripe then painted in accordance with these specifications.

3.02 <u>TEST SPECIMENS</u>

The Contractor shall submit to the Engineer test specimens as requested. Test markings shall be applied to a suitable plane rigid surface. The area shall be of sufficient size to permit film thickness measurement to be made at least **1 inch** from any edge.

3.03 TRAFFIC SIGNS

- A. Each sign shall be carefully installed in accordance with Section 621.03 of the State of Hawaii Department of Transportation Standard Specifications For Road, Bridge And Public Works Construction, dated 2005. at the approximate locations shown on the plans and in accordance with the mounting details indicated. Final locations shall be approved by the Engineer.
- B. Sign posts shall be vertical and there shall be a minimum of **7 feet** clearance to the bottom of the sign.
- C. Construction signs may be mounted on portable frames or supports.
- D. The backside of all metallic signs for parking and traffic shall be painted hunter green in color

SECTION 02830 - FENCES AND GATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Related work described elsewhere.
 - Section 05500 Metal Fabrication.

1.02 SCOPE

A. Proved galvanized steel cattle gate, in place, complete.

1.03 **SUBMITTALS**

- A. Submit complete, dimensioned shop drawings showing post sizes, frame post sizes, post heights, gate details, diagonal bracing and protection from concrete contact.
- B. Submit manufacturer's certification that materials have been treated as specified herein.

PART 2 - PRODUCTS

2.01 MATERIALS FOR PIPE GATES

- A. All materials shall be of galvanized steel.
- B. Posts, top rails and gate frames shall be Schedule 40 galvanized steel pipe.
- C. Gate post and rail sizes shall be as indicated on drawings.
- D. Concrete strength shall be 2,500 psi
- E. Coating for post bases shall be paste consistency asphalt mastic.
- F. Gates shall have drop rod devices for single gates, and drop rod devices for double swing gates, for both the open and closed positions.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Gates and frames shall be assembled by welding.
- B. Gate height and width, and fence height shall be as indicated on the drawings.

DIVISION 5 – METALS

SECTION 05500 - METAL FABRICATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Related work described elsewhere.
 - 1. Section 2830 Fences & Gates

1.02 GENERAL REQUIREMENTS:

A. Furnish all labor, materials, tools and equipment necessary to complete all work as shown on the drawings and as required.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Arc welding electrodes: A-223-E60 series classification.
- B. Bars and miscellaneous items: ASTM A36.
- C. <u>Galvanizing</u>: "Standard Specifications for Zinc (Hot- Galvanized) Coatings on Structural Steel Shapes, Plates and Bars and Their Products), ASTM A123, and "Tentative Specifications for Zinc Coating (Hot Dip) or Iron and Steel Hardware", ASTM A153.
- D. <u>Pipe</u>: Standard weight, galvanized steel pipe conforming to ASTM A53.
- E. Concrete for post footings shall be 2500 psi.
- F. Chain: Common coil, Grade 30, galvanized.
- G. Padlock shall be 5 or 6 pin cylinder type with brass case and a 5/16" or 11/32" diameter hardened steel shackle. Unless otherwise specified, padlocks shall be keyed alike and keyed to the DHHL padlock system. Two keys shall be provided for each padlock.
- H. Reflective Tape shall be Scotchlite Brand Reflective Sheeting High Intensity Grade, High Tack, Pressure Sensitive (Red Model No. 5872, Silver Model No. 5870) or approved equal

PART 3 - EXECUTION

3.01 INSTALLATION AND WORKMANSHIP

- A. Except for modifications indicated on drawings and/or specified herein, A.I.S.C.'s "Code of Standard Practice for Steel Buildings and Bridges" as amended to date, shall govern materials, fabrication and erection of steel work under this section.
- B. Workmanship shall be as per best standard practice of the trade and shall be done by mechanics skilled in type of work required. Insofar as possible, work shall be fitted and shop assembled, ready for erection. Jointing and intersections shall be accurately made, in true planes with adequate fastenings.
- C. Welding shall comply with applicable codes and to current good practices for the type of work and materials involved. Reference is made to the "Welding Handbook" of the American Welding Society, as a guide for general procedure and for qualification of welders. All welding shall be even and smooth and exposed welded joints ground smooth and flush.
- D. Do all cutting, tapping, drilling required in the shop insofar as possible.
- E. Hinge assemblies shall be hot dipped, galvanized after fabrication and be field welded to the gate posts.
- F. Gate frames shall be fabricated from standard weight galvanized steel pipe. The contractor shall verify all dimensions in the field before fabrication. Gate frames shall be assembled by welding. Grind all connections smooth and repair all damaged galvanized surfaces.
- G. Reflective tape shall be applied on the gate frames and posts as noted on the plans.

3.02 REPAIR OF DAMAGED GALVANIZED COATINGS

A. All galvanized coatings that have been chipped off or damaged in handling, transporting or welding shall be painted with two coats of zincrich paint. Clean the surface to be painted by using a wire brush, light grinding, or mild blasting. Thoroughly remove all flux residue and weld spatter. The surface shall be clean, dry and free of oil, grease and corrosion products before painting.

3.03 PROTECTION

A. After erection, all work shall be adequately protected from damage from grindings, polishing, cement, or other harmful materials.

- 3.04 MISCELLANEOUS STEEL CLIPS, ANCHOR PLATES, STRAPS, BOLTS, ETC. (TYPICAL)
 - A. All shall be of sizes and shapes as detailed in the drawings with all necessary holes for bolts, etc. Supply all bolts, clips, plates, screws, or any other fastening devices called for on the drawings.

3.05 CLEANING AND REMOVAL

A. All rubbish and other debris shall be completely removed from the premises and the whole area cleaned daily and area left clean to the satisfaction of the Engineer.

DIVISION 10 – SIGNAGE

SECTION 10440 - SIGNAGE

PART 1 - GENERAL

1.01 SUMMARY

- A. Provide all signage as shown and as specified herein, including the following::
 - 1. Cutout dimensional characters.
- B. Sign Locations: As indicated and scheduled.

1.02 SUBMITTALS

- A. Submit in accordance with DHHL General Conditions.
- B. Manufacturer's Data: Include manufacturer's construction details relative to materials, dimensions of individual components, profiles, and finishes for each type of sign required.
- C. Shop Drawings: Provide shop drawings for fabrication and erection of signs. Include plans, elevations, and large-scale sections of typical members and other components. Show anchors, grounds, reinforcement, accessories, layout, and installation details.
 - 1. Provide message list for each sign required, including large-scale details of wording and layout of lettering.
 - 2. For signs supported by or anchored to permanent construction, provide setting drawings, templates, and directions for installation of anchor bolts and other anchors to be installed as a unit of work in other sections.
 - 3. Furnish full-size spacing templates for individually mounted dimensional letters and numbers.
- D. Samples: Provide the following samples of each sign component for initial selection of color, pattern and surface texture as required and for verification of compliance with requirements indicated:
 - 1. Samples for verification of color pattern, and texture selected, and compliance with requirements indicated:
 - a. Dimensional Characters: Full-size Samples of each type of dimensional character (letter, number, and graphic element).
 - b. Aluminum: For each form, finish, and color, on 6-inch long sections of extrusions and squares of sheet at least 4 by 4 inches.
 - c. Warranty: Special warranty specified in this Section.

1.03 QUALITY ASSURANCE

A. Single-Source Responsibility: For each separate type of sign required, obtain signs from one source from a single manufacturer.

1.04 PROJECT CONDITIONS

A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.

1.05 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
 - a. Failures include, but are not limited to, the following:
 - i. Deterioration of metal and polymer finishes beyond normal weathering.
 - b. Warranty Period: Five years from date of project acceptance.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Aluminum Sheet and Plate: ASTM B 209 (ASTM B 209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- B. Anchors and Inserts: Use nonferrous metal or hot-dipped galvanized anchors and inserts for installations as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

2.02 DIMENSIONAL CHARACTERS

A. Cutout Characters

- 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following
 - a. A.R.K. Ramos Architectural Signage Systems
 - b. ASE, Inc.
 - c. Brandy
 - d. Mathews Bronze
 - e. Supersine Company

- f. Approved equal
- 2. Character Material: Sheet or plate aluminum
- 3. Character Height: 5-1/2"
- 4. Thickness: ½"
- 5. Finishes:
- a. Baked-Enamel or Powder-Coat Finish: Manufacturer's standard, in color matching owner provided sample.
- 6. Mounting: Projecting studs
- 7. Typeface: Contractor shall match owner provided font sample.

2.03 ACCESSORIES

- A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signage, noncorrosive and compatible with each material joined, and complying with the following:
 - 1. Use concealed fasteners and anchors unless indicated to be exposed.
 - 2. Exposed Metal-Fastener Components, General:
 - a. Fabricated from stainless-steel.
 - 3. Sign Mounting Fasteners:
 - a. Projecting Studs: Threaded studs with sleeve spacer, welded or brazed to back of sign material, screwed into back of sign assembly, or screwed into tapped lugs cast integrally into back of cast sign material, unless otherwise indicated.
 - b. Through Fasteners: Exposed metal fasteners matching sign finish, with type of head indicated, installed in predrilled holes.

2.04 MISCELLANEOUS METAL MESSAGE SIGNS

- A. Shape, color, dimensions, symbols, wording, and lettering shall be as shown on drawings.
- B. Signs shall be made of white aluminum sheets, the minimum thickness shall be 0.063-inch. Aluminum sheet shall conform to ASTM B 209, alloy and temper 6061-T6 flat sheet.
- C. Message shall be silk screened on the face of the white finished aluminum. Match message color to sample provided by owner.
- D. Fasteners shall be one-way tamper-proof stainless steel.

2.05 FINISHES

A. Colors and Surface Textures: For exposed sign material that requires selection of materials with integral or applied colors,

- surface textures or other characteristics related to appearance, provide color matches indicated, or if not indicated, as selected by the Contracting Officer from the manufacturer's standards.
- B. Metal Finishes: Comply with NAAMM "Metal Finishes Manual" for finish designations and applications recommendations.

PART 3 - EXECUTION

3.01 INSTALLATION

A. General:

- Installation of all signage shall be in strict accordance with manufacturer's printed instruction and approved shop drawings. Installation shall be accomplished by experienced mechanics and in a workmanlike manner.
- 2. Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions.
- 3. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
- 4. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
- 5. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

B. Dimensional Lettering Signage

- 1. Projecting Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
 - a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place spacers on studs, place sign in position, and push until spacers are pinched between sign and substrate, embedding the stud ends in holes. Temporarily support sign in position until adhesive fully sets.
- C. Post Mounted Signs: Attach panel signs to posts using one-way, tamper-proof fasteners. Shields shall be provided as required to suit the mounting conditions. Double-stick tape of adhesives shall not be used.

3.02 CLEANING AND PROTECTION

A. Remove and replace damaged or deformed characters and signs that do not comply with specified requirements. Replace characters with damaged or deteriorated finishes or components that cannot

be successfully repaired by finish touchup or similar minor repair procedures. All removal or replacement to be at no cost to the owner.

- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. At completion of the installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Protect units from damage until acceptance by the Contracting Officer. Remove all tools, equipment, debris, and surplus materials.

- 1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED ON AVAILABLE "AS-BUILT" OF RECORD CONSTRUCTION PLANS AND ARE APPROXIMATE ONLY AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO THE EXCAVATION FOR THE NEW LINES. CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" AT 811 FOR UTILITY TONING. PERSONAL INJURY RESULTING FROM CONTACT WITH THE EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY
- 2. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL, OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS, OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY AT THEIR EXPENSE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLICABLE PROVISIONS OF THE WATER QUALITY AND POLLUTION CONTROL STANDARDS CONTAINED INT HE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS", AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS WELL AS THE MAUI COUNTY GRADING ORDINANCE, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
- 4. ALL AZIMUTHS AND RECORD COORDINATES REFER TO GOVERNMENT SURVEY TRIANGULATION STATION "OLELEUWE".
- 5. ELEVATIONS SHOWN ARE BASED ON THE BENCHMARK FOUND ALONG LIHI PALI AVENUE (STA G1), AS SHOWN ON CONSTRUCTION PLANS. THE TOPOGRAPHIC SURVEY WAS PREPARED BY FUKUMOTO ENGINEERING, INC. DATED NOVEMBER 28. 2014. BENCHMARK ELEVATION = 100.00 FEET (ASSUMED BASELINE ELEVATION).
- 5. EXISTING GRADES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH GRADING WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED IN THE EXISTING GRADES OR DIMENSIONS GIVEN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING ANY FURTHER WITH THE WORK, OTHERWISE HE WILL BE HELD RESPONSIBLE FOR ANY COST INVOLVED IN THE CORRECTION OF CONSTRUCTION PLACED DUE TO SUCH DISCREPANCIES.
- 7. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES WITHIN PROJECT LIMITS BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
- 8. THE CONTRACTOR SHALL REPORT ANY INCONSISTENCIES WITH THE PROPOSED PLAN TO THE STATE'S PROJECT MANAGER AND SHALL DEMOLISH, REMOVE, OR RELOCATE ALL EXISTING UTILITIES, IMPROVEMENTS, ETC. INCONSISTENT WITH THE PROPOSED PLAN AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AT THE CONTRACTOR'S EXPENSE.
- 9. THE LATEST REVISIONS OF THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION," SEPTEMBER 1984. THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," 2005 AND THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF THE DEPARTMENT OF PUBLIC WORKS" DATED SEPTEMBER 1986 SHALL BE INCLUDED AS PART OF THESE CONSTRUCTION PLANS. THE CONTRACTOR SHALL OBTAIN THE LATEST REVISIONS BEFORE COMMENCING CONSTRUCTION. THE FOLLOWING DETAILS SHOWN IN "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER 1984, SHALL BE APPLICABLE TO THIS PROJECT:
- R-9 CONCRETE PAVEMENT
- R-10 CONCRETE PAVEMENT JOINT DETAILS
- R-11 CONCRETE PAVEMENT JOINT DETAILS R-12 STREET SURVEY MONUMENT
- R−14 CENTERLINE MONUMENT
- R-19 6' CHAIN LINK FENCE
- R-21A TYPICAL DOUBLE GATE R-50 DRIVEWAY LAYOUTS FOR NON-CURB STREETS
- R-53 ROADWAY TYPICAL SECTIONS
- R-55 ROADWAY SWALES R-56 SIDEWALK DETAILS (CONCRETE)
- 10. THE FOLLOWING DETAILS AS SHOWN IN "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEMS CONSTRUCTION" AND "MAUI REVISIONS TO STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION," DATED 2002 SHALL BE APPLICABLE TO THIS PROJECT.
- 27R HYDRANT CONNECTION STRAIGHT RUN
- 31R HYDRANT CURB GUARD, VALVE MARKER, & REFLECTOR POST
- 104R REINFORCED CONCRETE JACKET
- 108 TYPICAL DETAIL TYPICAL THRUST BLOCK WITH STRAPS 122R GATE VALVE ANCHOR BLOCK FOR NONMETALLIC PIPE
- 123 TRENCH BACKFILL
- 11. SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS AND MOUNDS, OR REMAINS SUCH AS ARTIFACTS, BURIALS, IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE STATE HISTORIC PRESERVATION DIVISION (PH: (808) 692-8015), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND MITIGATION MEASURES, IF NECESSARY. AN ARCHEOLOGICAL MONITORING PLAN (AMP) AND ARCHEOLOGICAL MONITOR WILL BE RETAINED BY THE STATE. THE MONITOR WILL HAVE AUTHORITY TO STOP WORK IF DEEMED NECESSARY.
- 12. PURSUANT TO CHAPTER 6E OF THE HAWAII REVISED STATUTES, ALL CONTRACTORS SHALL ENSURE THAT IN THE EVENT THAT ANY HUMAN SKELETAL REMAINS ARE INADVERTENTLY DISCOVERED DURING CONSTRUCTION, THE REMAINS SHALL NOT BE MOVED AND ANY ACTIVITY IN THE IMMEDIATE AREA THAT COULD DAMAGE THE REMAINS OR THE POTENTIAL HISTORIC SITE SHALL CEASE AND THE DEPARTMENT OF LAND AND NATURAL RESOURCES' HISTORIC PRESERVATION DIVISION (PH: 243-1285 OR 243-4640), THE APPROPRIATE MEDICAL EXAMINER OR CORONER, AND THE POLICE DEPARTMENT (TELEPHONE: 244-6400), SHALL BE CONTACTED. ALL LESSEES USING EXISTING DIRT ROADS TO ACCESS THEIR PROPERTY SHALL CONTINUE TO BE PROVIDED ACCESS TO THEIR PROPERTY AT ALL TIMES DURING CONSTRUCTION ACTIVITIES BY THE CONTRACTOR
- 13. AT THE END OF EACH DAY'S WORK, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTIONS TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC ALONG PUBLIC ROADWAYS.
- 14. DURING NON-WORKING HOURS, TRENCHES SHALL BE COVERED WITH NON-SKID STEEL PLATES.
- 15. EXISTING SITE DRAINAGE SYSTEMS SHALL BE FUNCTIONAL AT ALL TIMES, AND DRAINAGE PATTERNS SHALL BE MAINTAINED.
- 16. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO AND FROM DRIVEWAYS AND PUBLIC STREETS AT ALL TIMES.
- 17. PRIOR TO COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER.
- 18. EXISTING UTILITIES SHALL REMAIN IN—SERVICE AND IN PLACE. INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND ONLY WITH THE APPROVAL OF THE PROJECT MANAGER.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDERPINNING TO FULLY PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL PROVIDE AN EXCAVATION SHORING PLAN PREPARED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER COMPETENT IN SOILS AND A LICENSED STRUCTURAL ENGINEER.
- 20. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL IMPROVEMENTS DAMAGED OR DISTURBED 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 UNCLASSIFIED TRENCH EXCAVATION.
- 21. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES REQUIRED. THE CONTRACTOR SHALL CONDUCT ALL TESTS AS REQUIRED BY THE ENGINEER OR PROJECT MANAGER AND BE RESPONSIBLE FOR ALL EXPENSES INCURRED IN CONDUCTING THESE TESTS.
- 22. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING, TWO (2) WEEKS PRIOR TO THE STARTING OF PAVING
- 23. SMOOTH RIDING CONNECTIONS SHALL BE CONSTRUCTED AT ALL LIMITS OF RESURFACING, INCLUDING THE BEGINNING AND END OF PROJECT, CONNECTING APPROACHES, SIDE STREETS AND DRIVEWAYS AS SHOWN
- 2.4 CONTRACTOR SHALL COORDINATE PUBLIC ACCESS TO THE CEMETERY WITH DHHL AND LOCAL STAFF

DEPARTMENT OF PUBLIC WORKS NOTES

- THE CONTRACTOR SHALL ALLOW FOUR WEEKS TO OBTAIN A GRADING PERMIT FROM THE DEVELOPMENT SERVICES ADMINISTRATION PRIOR TO COMMENCEMENT OF ANY CLEARING AND GRUBBING. A SATISFACTORY DRAINAGE AND EROSION CONTROL PLAN SHALL BE SUBMITTED IN THE EVENT THE GRUBBING AREA EXCEEDS ONE ACRE OR THE PROPOSED CUT OR FILL IS GREATER THAN 15 FEET IN HEIGHT. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL BEST MANAGEMENT PRACTICE MEASURES.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY AND CONVENIENCE OF THE PUBLIC AND IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAY, 2003 EDITION WITH REVISION No. 1 INCORPORATED, DATED NOVEMBER 2004". THE CONTRACTOR SHALL PREPARE AND OBTAIN NECESSARY APPROVALS OF

3. STANDARD DETAIL DRAWINGS OF THE SEPTEMBER 1984 STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION OF THE DEPARTMENT OF PUBLIC WORKS AND THE 2005 HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION SHALL BE INCLUDED AS PART OF THE CONSTRUCTION PLANS.

DEPARTMENT OF PUBLIC WORKS NOTES (CON'T)

- 4. ALL CONSTRUCTION WORK SHALL STRICTLY CONFORM TO THE APPLICABLE SECTIONS OF THE 2005 HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE 1986 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AS AMENDED.
- 5. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH AND COUNTY GRADING ORDINANCE.
- 6. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION ORDERED BY THE DIRECTOR OF PUBLIC WORKS SHALL BE PAID BY THE CONTRACTOR.

CONSTRUCTION NOTES WITHIN DHHL / COUNTY RIGHTS-OF-WAY

- 1. LIHI PALI AVENUE IS A DHHL ROAD RIGHT-OF-WAY (R/W) WITH THE COUNTY OF MAUI DEPARTMENT OF PUBLIC WORKS HAVING JURISDICTION FOR THE ASPHALT PAVEMENT FOR MAINTENANCE.
- 2. CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM WORK ON COUNTY HIGHWAYS FROM THE DEVELOPMENT SERVICES ADMINISTRATION TWO WEEKS PRIOR TO THE COMMENCEMENT OF WORK.
- 3. CONTRACTOR SHALL PROVIDE. INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY AND CONVENIENCE OF THE PUBLIC, ACCORDING TO THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE FOR STREETS AND HIGHWAYS", AND TO THE RULES AND REGULATIONS GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORKSITES AND/OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS ADOPTED BY THE HIGHWAY SAFETY COORDINATOR AND THE U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS".
- 4. STANDARD DETAIL DRAWINGS AND STANDARD SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION PLANS.
- 5. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH AND COUNTY GRADING ORDINANCE.
- 6. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION ORDERED BY THE DIRECTOR OF PUBLIC WORKS SHALL BE PAID BY THE CONTRACTOR.
- 7. ALL CONSTRUCTION WORK SHALL STRICTLY CONFORM TO THE 2005 HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE PUBLIC WORKS CONSTRUCTION, AND THE SEPTEMBER 1984 "STANDARD DETAILS" FOR PUBLIC WORKS CONSTRUCTION OF THE DEPARTMENT OF PUBLIC WORKS, AS AMENDED.
- 8. PROVIDE SMOOTH RIDING PAVEMENT TRANSITION AT TRENCH LIMITS FROM EXISTING PAVEMENT TO NEW PAVEMENT.
- 9. IF EXISTING UTILITIES, WHETHER OR NOT SHOWN ON PLANS, ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL AT HIS OWN EXPENSE BE REQUIRED TO REPAIR SUCH UTILITIES.
- 10. THE DIRECTOR OF PUBLIC WORKS AND/OR DEPARTMENT OF WATER SAFETY HAS THE RIGHT TO STOP CONSTRUCTION SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED CONSTRUCTION PLAN OR DETRIMENTAL TO THE PUBLIC'S
- CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE WORK SITE. THE CONTRACTOR SHALL INFORM THE DIRECTOR OF PUBLIC WORKS OF THE LOCATION OF THE DISPOSAL SITES. THE DISPOSAL SITE MUST FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- 12. THE CONTRACTOR SHALL SUBMIT A TIFF AND FIVE (5) COPIES OF THE "AS-BUILT" DRAWINGS TO THE PROJECT MANAGER AND TO THE COUNTY, AS REQUIRED, PRIOR TO THE FINAL APPROVAL OF THE IMPROVEMENTS.
- 13. IF THE CLEARANCE BETWEEN A WASTEWATER LINE AND A NEW OR EXISTING WATERLINE IS EIGHTEEN INCHES (18") OR LESS, THE WASTEWATER LINE SHALL BE CONCRETE-JACKETED IN ACCORDANCE WITH THE STANDARD DETAILS OF PUBLIC WORKS CONSTRUCTION DATED SEPTEMBER 1984, AS AMENDED.
- 14. SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS OR MOUNDS, OR REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATION OF SHELL OR CHARCOAL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR AND/OR LANDOWNER SHALL IMMEDIATELY CONTACT THE STATE HISTORIC PRESERVATION DIVISION (PH: 243-1285 OR 243-4640). WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF NECESSARY.
- 15. PURSUANT TO MAUI COUNTY CODE SECTION 3.44.015(C), THE COUNTY OF MAUI IS NOT RESPONSIBLE FOR ANY PARK, ROADWAY. EASEMENT (INCLUDING BUT NOT LIMITED TO DRAINAGE, SEWER, ACCESS, RECLAIMED WATER, OR AVIGATION EASEMENT), OR ANY OTHER INTEREST IN REAL PROPERTY SHOWN ON THIS MAP OR SHOWN ON THESE PLANS, UNLESS THE MAUI COUNTY COUNCIL HAS ACCEPTED ITS DEDICATION BY A RESOLUTION APPROVED BY A MAJORITY OF A COUNCIL'S MEMBERS AT A REGULAR OR SPECIAL MEETING OF THE MAUI COUNTY COUNCIL.
- 16. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE DEVELOPMENT SERVICES ADMINISTRATION FIVE (5) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 17. WHEELCHAIR RAMP INSPECTION/CERTIFICATION FORMS SHALL BE REQUIRED FOR ALL NEWLY CONSTRUCTED RAMPS.
- 18. STEEL PLATE WARNING SIGNS ARE REQUIRED FOR ALL STEEL PLATES IN THE RIGHT-OF-WAY.
- 19. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE OF THERMOPLASTIC MATERIAL.
- 20. COMPACTION REQUIREMENTS
- A. TESTING OF MATERIALS SHALL BE CONDUCTED BY AN APPROVED INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH ASTM STANDARD METHODS OR AS SPECIFIED BY THE DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION,
 - I. EMBANKMENT/SELECT BORROW AND SUBGRADE MATERIALS: ONE (1) COMPACTION TEST PER 600 SQUARE YARDS PER LIFT;
 - II. AGGREGATE SUBBASE COURSE: ONE (1) COMPACTION TEST PER 400 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER LIFT PER PROJECT;
 - III. AGGREGATE BASE COURSE: ONE (1) COMPACTION TEST PER 300 SQUARE YARDS PER LIFT OF MATERIAL; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER PROJECT;
 - IV. ASPHALT CONCRETE PAVEMENT OR ASPHALT TREATED BASE COURSE; THREE (3) A.C. CORES FOR THICKNESS AND DENSITY TESTS PER PROJECT;

V. TRENCH BACKFILL MATERIAL: ONE (1) TEST FOR EACH 300 LINEAL FEET OF TRENCH PER LIFT OF MATERIAL.

- B. CONTRACTOR SHALL SUBMIT ALL TESTING REPORTS INCLUDING RESULTS TO THE COUNTY'S INSPECTION AGENCY AND
- C. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE COUNTY OF ANY TESTING FAILURES AND CORRECT EACH FAILURE PRIOR TO PROCEEDING TO THE NEXT PHASE OF CONSTRUCTION.

THE PROJECT MANAGER FOR REVIEW AND APPROVAL PRIOR TO COUNTY'S ACCEPTANCE OF WORK.

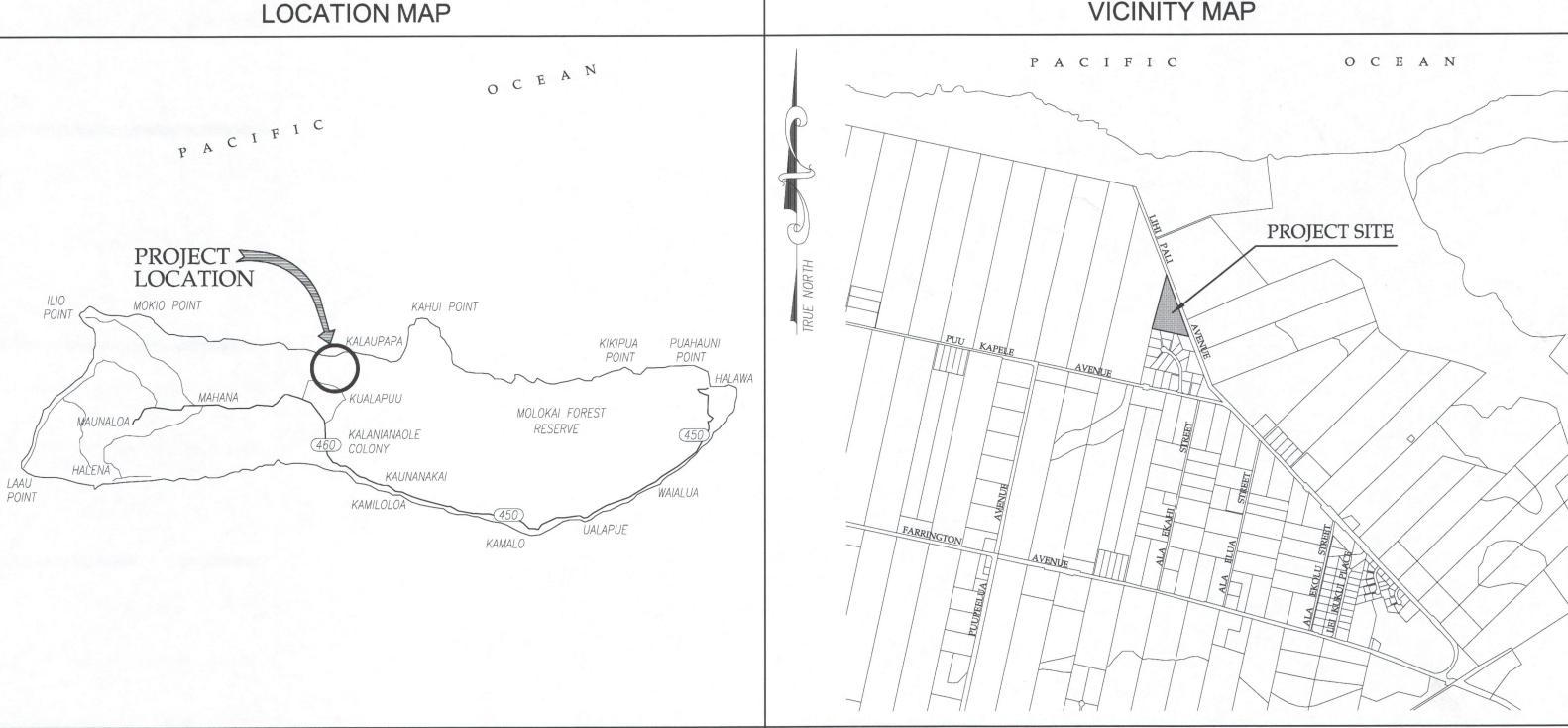
CONSTRUCTION PLANS

STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS 91-5420 KAPOLEI PARKWAY KAPOLEI, HI 96707

KANAKALOLOA CEMETERY IMPROVEMENTS

TMK: (2) 5-2-017:003 HO' OLEHUA, MOLOKA' I, HAWAI'

IFB NO.: IFB-16-LDD-011



| INDEX | TO | DRAWINGS | |
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APPROVALS REQUIRED FOR COUNTY PERMIT

| INDEX TO DIVIVINOS | | DIVIVIII | ALLINOVILLO INLIGOTINED FOR OCO | |
|--------------------|-------------------|--|---|--|
| Sheet Number | Sheet Description | Sheet Title | | |
| 1 | T001 | TITLE, INDEX TO DRAWINGS, NOTES, LOCATION AND VICINITY MAPS | On some of | |
| 2 | T002 | NOTES 1 | CHARLAN HARVAN HOLES COMMISSION | |
| 3 | T003 | NOTES 2 | CHAIRMAN, HAWMIAN HOMES COMMISSION STATE OF HAWAII | |
| 4 | C100 | EXISTING CONDITIONS AND DEMOLITION PLAN | | |
| 5 | C200 | GENERAL PLAN | | |
| 6 | C201 | PLAN AND PROFILE DWY A | 님 그 이 그는 그 것 같아. 아이는 이 그는 그는 그는 그는 그를 가는 것이 되었다. | |
| 7 | C202 | PLAN AND PROFILE DWY B | | |
| 8 | C203 | PLAN AND PROFILE LIHI PALI AVE | DIRECTOR, DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI | |
| 9 | C204 | PAVILION SITE, UTILITY AND GRADING PLAN | (APPROVAL GRANTED FOR WORK WITHIN COUNTY JURISDICTION ONLY) | |
| 10 | C300 | EROSION CONTROL PLAN | | |
| 11 | C400 | DETAILS 1 | | |
| 12 | C401 | DETAILS 2 | | |
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| 14 | C403 | TYPICAL ROADWAY SECTIONS AND DETAILS 4 | | |
| 15 | C500 | TRAFFIC CONTROL PLAN | | |
| | | | | |

TRAFFIC CONTROL PLANS IF REQUIRED BY THE DEVELOPMENT SERVICES ADMINISTRATION.

GRADING NOTES

- ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE CHAPTERS OF THE COUNTY OF MAUI CODE AND ORDINANCES, AS AMENDED, AS RELATED TO GRADING, SOIL EROSION, AND SEDIMENT CONTROL, AND THE "GEOTECHNICAL ENGINEERING CONSULTATION, KANAKALOLOA CEMETERY IMPROVEMENTS" BY GEOLABS, INC., DATED OCTOBER 22, 2015.
- NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- THE CONTRACTOR, AT HIS/HER OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60.1, "AIR POLLUTION CONTROL".
- 4. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS/HER SEARCH OF AVAILABLE RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE.
- . ALL EXPOSED AREAS SHALL BE PAVED AS SOON AS SUBGRADES HAVE BEEN ESTABLISHED. GRADING TO FINAL SUBGRADE SHALL BE CONTINUOUS, WITH PAVING TO FOLLOW.
- FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- 8. THE COUNTY AND DEPARTMENT OF HAWAIIAN HOME LANDS (DHHL) SHALL BE INFORMED OF THE LOCATION OF THE BORROW/DISPOSAL SITE FOR THE PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW/DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- . NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE COUNTY OF MAUI AND DHHL PROVIDED SUCH GRADING WORK IS ALSO IN CONFORMANCE WITH THE COMMUNITY NOISE CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46, "COMMUNITY NOISE CONTROL".
- 10. THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
- OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS", AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AND IF APPLICABLE, THE NPDES PERMIT FOR THE PROJECT.

. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS

- WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
- 13. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS
- ARE IN-PLACE AND ESTABLISHED. 14. TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO
- 15. IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
- 16. FOR BENCH MARK, SEE SHEET C100.

APPLICATION FOR GRADING PERMIT.

- 7. FOR DHHL PROJECTS, THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF HAWAIIAN HOME LANDS AND THE COUNTY OF MAUL TO ARRANGE FOR INSPECTIONAL SERVICES AND SUBMIT TWO (2) SETS OF APPROVED CONSTRUCTION PLANS SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION
- 18. PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE HONOLULU POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION (808-692-8015).
- 19. IF THE PROJECT WILL DISTURB ONE (1) ACRE OR MORE OF LAND, IT SHALL COMPLY WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. THE CIVIL ENGINEER SHALL BE RESPONSIBLE FOR INITIATING THE APPLICATION ON BEHALF OF THE APPLICANT/PROJECT OWNER, AND WILL ASSIST THE APPLICANT/PROJECT OWNER WITH PROCESSING AND APPROVALS OF THE PERMIT APPLICATION WITH THE STATE DEPARTMENT OF HEALTH (DOH). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL OTHER REQUIRED INFORMATION FOR APPROVAL OF THE NPDES PERMIT TO THE CONSULTANT/APPLICANT/PROJECT OWNER, AS THE CONTRACTOR IS NOT THE APPLICANT. THE CONTRACTOR SHALL THEN OBTAIN AND COMPLY WITH THE NPDES PERMIT AND ASSOCIATED REQUIREMENTS, INCLUDING ANY REQUIRED UPDATES AND REVISIONS, THROUGHOUT THE PROJECT'S CONSTRUCTION DURATION. ADDITIONALLY, THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL A NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM. FOR DHHL PROJECTS, THE CONTRACTOR SHALL PROVIDE A WRITTEN COPY OF THE NGPC TO THE COUNTY OF MAUL AND DHHL AT LEAST SEVEN (7) CALENDAR DAYS BEFORE THE START OF THE CONSTRUCTION.
- 20. ALL GRADING AND CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS.
- 21. NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE VIOLATOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECTED TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
- 22. FINISH SPOT ELEVATIONS AND FINISH CONTOURS, AS SHOWN ON PLAN REPRESENTS FINISH GRADING. THE SITE WORK CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE CONTRACTOR THE LOCATION AND DEPTH OF TOPSOIL THE FINISH SUBGRADE SHALL REFLECT THE FINISH GRADE LESS SPECIFIED TOPSOIL
- 23. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE MEASURES OF THE BEST MANAGEMENT PRACTICE (BMP) PLAN. ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS CONTAINED IN THE PUBLIC HEALTH REGULATIONS, STATE DEPARTMENT OF HEALTH, ON WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS.
- 24. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS, AND OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE STATE DEPARTMENT OF HEALTH SHALL BE PAYABLE BY THE CONTRACTOR.
- 25. THE CONTRACTOR, AT HIS EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE OF DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
- 26. CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL INFORM THE ENGINEER OF THE LOCATION OF DISPOSAL SITES. THE DISPOSAL SITE MUST ALSO FULFILL REQUIREMENTS OF THE GRADING ORDINANCES.
- 27. THE CONTRACTOR SHALL NOT DEMOLISH OR CLEAR ANY STRUCTURE, SITE OR VACANT LOT WITHOUT FIRST ASCERTAINING THE PRESENCE OR ABSENCE OF RODENTS WHICH MAY ENDANGER THE PUBLIC HEALTH BY DISPERSAL FROM SUCH PREMISES. SHOULD SUCH INSPECTION REVEAL THE PRESENCE OF SUCH RODENTS, THE CONTRACTOR SHALL ERADICATE SUCH RODENTS BEFORE DEMOLISHING OR CLEARING SAID STRUCTURE, SITE OR VACANT LOT.

GRADING NOTES (CON'T)

- 28. THE FOLLOWING MEASURES SHALL BE TAKEN TO CONTROL DUST AND EROSION DURING THE SITE DEVELOPMENT
- A. MINIMIZE TIME OF CONSTRUCTION.
- B. RETAIN EXISTING GROUND COVER UNTIL THE LASTEST DATE TO COMPLETE CONSTRUCTION.

NEEDED, IN ACTIVE CONSTRUCTION AREAS (WEEKENDS AND HOLIDAYS INCLUDED).

- C. CONSTRUCT REMAINING PERMANENT EROSION AND DRAINAGE CONTROL FEATURES AS EARLY AS POSSIBLE.
- D. USE TEMPORARY AREA SPRINKLERS IN NON-ACTIVE CONSTRUCTION AREAS WHEN GROUND COVER IS REMOVED.
- E. STATION WATER TRUCK ON-SITE DURING CONSTRUCTION PERIOD TO PROVIDE FOR IMMEDIATE SPRINKLING, AS
- F. USE TEMPORARY BERMS AND CUT-OFF DITCHES, WHERE NEEDED FOR CONTROL OF EROSION. IMPLEMENT AND MAINTAIN THE MEASURES OF THE BMP PLAN.
- G. GRADED AREAS SHALL BE THOROUGHLY WATERED AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND ON WEEKENDS.
- H. ALL CUT AND FILL SLOPES SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER GRADING WORK HAS BEEN COMPLETED.

WATER SYSTEM NOTES (PRIVATE AND DHHL)

- 1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF HAWAIIAN HOMELANDS (DHHL), IN WRITING, ONE (1) WEEK PRIOR TO COMMENCEMENT OF WORK.
- 2. ALL MATERIALS USED AND METHOD OF CONSTRUCTION OF WATER SYSTEM FACILITIES SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF COUNTY OF MAUI DEPARTMENT OF WATER SUPPLY (DWS) STANDARDS. CONTRACTOR SHALL OBTAIN THE LATEST REVISIONS OF THE DWS STANDARD DETAILS BEFORE COMMENCING CONSTRUCTION.
- 3. ALL WATER SYSTEM WORK SHALL BE PERFORMED BY CONTRACTORS POSSESSING VALID STATE OF HAWAII CONTRACTOR'S LICENSES, REGARDLESS OF THE VALUE OF THE WORK.
- 4. THE EXACT DEPTH AND LOCATION OF EXISTING WATERLINES, SERVICE LATERALS AND OTHER UTILITIES ARE NOT KNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE SAME PRIOR TO TRENCHING FOR THE NEW WATERLINE. THE COST OF LOWERING, RELOCATING OR ADJUSTING EXISTING WATERLINES, SERVICE LATERALS AND OTHER UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE NEW WATERLINE, UNLESS NOTED OTHERWISE, AND WILL NOT BE PAID FOR SEPARATELY.
- 5. CONCRETE FOR REACTION BLOCKS AND ANCHOR BLOCKS SHALL BE DWS CLASS 2500.
- 6. THE MAXIMUM DISTANCE BETWEEN VALVE NUT AND TOP OF VALVE MANHOLE COVER SHALL BE THREE (3)
- 7. THE CONTRACTOR SHALL SUBMIT A MATERIALS LIST TO DHHL AND THE PROJECT MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 8. CONNECTION TO DHHL SYSTEM:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY FITTINGS AND OTHER MATERIALS AND EQUIPMENT REQUIRED FOR THE HOOK-UP. HE SHALL VERIFY THE EXACT LOCATION, DEPTH, TYPE, AND CONDITION OF THE EXISTING LINE BEFORE ORDERING MATERIALS FOR THE HOOK-UP. HE SHALL, HOWEVER, CHECK WITH DHHL BEFORE EXCAVATING FOR VERIFICATION PURPOSES.
- B. WHENEVER FEASIBLE, MECHANICAL JOINT FITTINGS SHALL BE USED FOR BURIED APPLICATIONS, AND FLANGED JOINT FITTINGS SHALL BE USED FOR EXPOSED APPLICATIONS.
- C. AUTHORIZED DHHL PERSONNEL MAY BE REQUIRED TO MAKE THE FINAL CONNECTION TO THE EXISTING LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY DHHL FOR SAID WORK, INCLUDING THE COST OF PRESSURE TESTING AND DISINFECTION.
- D. IF DHHL PROVIDES ONLY INSPECTION AND SUPERVISING OPERATORS, AND DOES NOT PROVIDE PERSONNEL FOR THE ACTUAL CONNECTION, THE CONTRACTOR SHALL PROVIDE ALL PIPEFITTERS AND LABORS TO MAKE THE CONNECTION.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL, EQUIPMENT AND LABOR FOR TRENCH EXCAVATION, BACKFILLING, CLEANING AND CHLORINATION, PAVING, AND OTHER WORK NECESSARY TO COMPLETE THE HOOK-UP, AS DIRECTED BY AND TO THE SATISFACTION OF DHHL.
- 9. MINIMUM COVER OVER WATER MAIN, 6" DIAMETER OR LARGER, SHALL BE 3'-0". MINIMUM COVER FOR 4" DIAMETER SHALL BE 2'-6". MINIMUM COVER FOR DIAMETERS LESS THAN 4" SHALL BE 1'-6".
- 10. BOLTS FOR EXPOSED FLANGED DUCTILE IRON PIPE JOINTS SHALL BE EITHER SILICON BRONZE BOLTS AND NUTS OR 316 STAINLESS STEEL BOLTING WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING SYSTEM. ANTI-SEIZE SHALL NOT BE USED. T-BOLTS FOR DUCTILE IRON MECHANICAL JOINT (MJ) PIPE AND FITTING CONNECTIONS IN UNDERGROUND SITUATIONS SHALL BE ONE OF THE FOLLOWING SYSTEMS:
- A. 316 STAINLESS STEEL T-BOLTS WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING SYSTEM. ANTI-SEIZE SHALL NOT BE USED.
- B. COR-TEN T-BOLTS AND NUTS WITH HIGH GRADE ZINC SACRIFICIAL ANODES, EQUIVALENT TO "DURATRON" SACRIFICIAL "SAC-NUT" MODULES, INSTALLED ON THE NUTS FOR ALL STANDARD COR-TEN T-BOLTS.
- C. COR-TEN T-BOLTS AND NUTS BOTH FACTORY COATED WITH TRIPAC 2000 BLUE COATING SYSTEM BY "TRIPAC FASTENERS".
- 11. ALL BURIED METALS SHALL BE WRAPPED WITH POLY-WRAP. FOR ALL BURIED INSTALLATIONS OF DUCTILE IRON PIPE AND FITTINGS, POLY-WRAP IS REQUIRED EXCEPT WITHIN CONCRETE JACKETS.
- 12. LUBRICATE HYDRANT NOZZLE THREADS WITH NON-TOXIC GREASE.
- 13. THE CONTRACTOR SHALL PAINT AND NUMBER THE FIRE HYDRANT. NUMBERING TO BE FURNISHED BY DHHL.
- 14. WATER MAINS AND APPURTENANCES SHALL BE SUBJECT TO HYDROSTATIC TESTING IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C600, UNDER THE "HYDROSTATIC TESTING" SECTION, TO A PRESSURE OF AT LEAST 1.5 TIMES THE WORKING PRESSURE. UNLESS OTHERWISE STATED IN THE CONSTRUCTION DOCUMENTS OR LIMITED BY THE PRESSURE RATING OF EQUIPMENT, THE PRESSURE TEST AND LEAKAGE TEST SHALL BE PERFORMED AT 225 POUNDS PER SQUARE INCH PRESSURE.
- 15. THE CONTRACTOR SHALL SUBMIT TWO SETS OF RECORD DRAWINGS VIA A CONSULTANT PRIOR TO ACCEPTANCE OF THE WATER SYSTEM. AN ELECTRONIC IMAGE FILE IN TIFF FORMAT SHALL BE PROVIDED TO THE DHHL FOR ALL PROJECTS.

ADDITIONAL WATER SYSTEM NOTES

REQUIREMENTS.

CONSTRUCTION METHOD.

- 1. THE CONTRACTOR SHALL CHLORINATE THE ENTIRE INSIDE SURFACE OF EACH PIPE AND FITTING WITH DISINFECTION SOLUTION OF 5 OUNCES OF SODIUM HYPOCHLORITE MIXED WITH 10 GALLONS OF WATER (FOR CONNECTION ONLY).
- WATER SERVICE LATERAL CONNECTIONS: THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR FOR CONNECTION OR RE-CONNECTION OF CONSUMER'S PIPE TO NEW SERVICE LATERAL WITH COPPER PIPING AT THE CONTRACTOR'S EXPENSE. THE SIZE OF COPPER PIPE AND FITTINGS SHALL BE DETERMINED BY DEPARTMENT OF HAWAIIAN HOME LANDS (DHHL) OR AS
- SPECIFIED ON PLANS. THE USE OF PLASTIC MATERIALS IS PROHIBITED. A. ALL WATER METER INSTALLATIONS/RELOCATIONS SHALL BE COORDINATED WITH DHHL PERSONNEL. ONLY DHHL PERSONNEL IS AUTHORIZED TO REMOVE AND RELOCATE WATER METER.
- B. IF CONSUMER'S PIPE IS COPPER OR PVC, USE BRONZE PACK JOINT COUPLING. IF CONSUMER'S PIPE IS ANY OTHER MATERIAL, USE APPROPRIATE DI-ELECTRIC COUPLING.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER SERVICE TO CONSUMERS AT ALL TIMES. IF WATER SERVICE DISRUPTION IS NECESSARY, THE CONTRACTOR SHALL COORDINATE ALL DISRUPTIONS OF SERVICE WITH CONSUMERS.
- 3. THE CONTRACTOR SHALL FURNISH AND INSTALL DUCTILE IRON NIPPLES WHETHER OR NOT SPECIFIED ON THE CONSTRUCTION PLANS FOR COMPLETE INSTALLATION OF THE WATERLINE AT THE CONTRACTOR'S EXPENSE.
- 4. THE CONTRACTOR SHALL FURNISH TEMPORARY CLEANOUTS WHEN NECESSARY TO TEST, FLUSH, AND CHLORINATE THE WATERLINE AT THE CONTRACTOR'S EXPENSE.
- 5. THE CONTRACTOR SHALL CONCRETE PLUG ALL OPEN ENDS OF ABANDONED WATERLINES AT THE CONTRACTOR'S EXPENSE, WHETHER OR NOT SHOWN ON THE CONSTRUCTION PLANS.
- 6. AFTER INSTALLATION OF THE TAPPING SLEEVE AND VALVE PRIOR TO ACTUAL TAPPING OPERATIONS, THE ASSEMBLY SHALL BE TESTED AT 150 PSI ON BOTH SIDES OF THE VALVE.
- 7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL PORTIONS OF ABANDONED WATERLINES THAT ARE EXPOSED OR WITHIN 12-INCHES OF THE GROUND SURFACE AT THE CONTRACTOR'S EXPENSE.
- 8. THE CONTRACTOR SHALL ADJUST TO FINISHED PAVEMENT GRADES, ALL EXISTING VALVE BOXES AND MANHOLES, INCLUDING FRAME AND COVERS FOR ALL UTILITIES (I.E., WATER, SEWER, DRAIN, ETC.) AFFECTED BY PAVEMENT RESTORATION AT THE CONTRACTOR'S EXPENSE, WHETHER SHOWN OR NOT SHOWN ON THE CONSTRUCTION PLANS.
- 9. THE CONTRACTOR SHALL RESTORE ALL ROAD IMPROVEMENTS, DISTURBED OR DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORKS CONSTRUCTION, 1994," AS AMENDED, TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC WORKS. ROAD IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO, PAVEMENT, PAVEMENT MARKERS, STRIPING, SPEED HUMPS.
- 10. THE CONTRACTOR SHALL MAINTAIN FOUR FEET OF CLEARANCE WHEN TRENCHING OR EXCAVATING NEAR ANY UTILITY POLES. CONSTRUCTION EQUIPMENT SHALL SHALL MAINTAIN A TEN FOOT RADIAL CLEARANCE AROUND ANY OVERHEAD CONDUCTOR.
- 11. THE CONTRACTOR SHALL ADEQUATELY BRACE UTILITY POLES DURING TRENCHING AND BACKFILLING OPERATIONS. AFFECTED UTILITY COMPANIES SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF WORK NEAR UTILITY POLES.
- 12. THE PROJECT SHALL BE SUBJECT TO THE DEPARTMENT OF HAWAIIAN HOME LANDS CROSS-CONNECTION CONTROL
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATER LINES, TEES, AND BENDS, WHEREVER THERE IS A POSSIBILITY OF WATER LINE MOVEMENT DUE TO THE REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WATER MEASURES NECESSARY TO PROTECT THE WATER LINES SUCH AS CONSTRUCTING SPECIAL REACTION BLOCKS AND/OR MODIFYING HIS
- 14. POLYGON SHAPE FOR MECHANICAL JOINT GLANDS AS DESCRIBED IN AWWA STANDARD C111 SHALL BE "STRAIGHT—SIDED" OR AN APPROVED EQUAL.
- 15. PIPE CUSHION SHALL BE OF HIGH RESISTIVITY MATERIAL. THE CONTRACTOR SHALL SUBMIT A SOIL CERTIFICATION THAT HIGH RESISTANT CUSHION MATERIAL HAS A RESISTIVITY GREATER THAN 5,000 OHMS-CM. REMAINDER OF THE BACKFILL MATERIAL SHALL BE AS SPECIFIED IN THE WATER SYSTEM STANDARDS. PIPE CUSHION AND BACKFILL MATERIAL SHALL CONTAIN NO HAZARDOUS SUBSTANCES ABOVE REGULATORY ACTION LEVELS INCLUDING BUT NOT LIMITED TO LEAD, ASBESTOS, MERCURY, CHROMIUM, CADMIUM, ZINC, STRONTIUM, AND POLYCHLORINATED BIPHENYLS (PCB).
- 16. INSTALL 4 MIL THICK, NON-METALLIC, BLUE COLORED, 6-INCHES WIDE WARNING TAPE OVER CENTERLINE OF THE PIPE AND BELOW THE BASE COURSE ALONG THE ENTIRE LENGTH OF TRENCH. TAPE SHOULD BE MARKED WITH "CAUTION WATER LINE BURIED BELOW".
- 17. POLYVINYL CHLORIDE (PVC) PIPES SHALL BE CLASS 150. ALL DUCTILE IRON VALVES AND METALLIC FITTINGS SHALL BE WRAPPED WITH TWO LAYERS OF 8 MIL POLYETHYLENE WRAP. NO BENDING OF POLYVINYL CHLORIDE PIPES SHALL BE PERMITTED. THE INSTALLATION OF PVC PIPE, ACCORDING TO THE PLANS AND SPECIFICATIONS AS BID ON BY THE CONTRACTOR, MAY REQUIRE ADDITIONAL DESIGN WORK, ADDITIONAL FITTINGS, AND SPECIAL COUPLINGS SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID IN THE PROPOSAL FOR PVC PIPE. ANY ADDITIONAL DESIGN WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 18. ALL POLYVINYL CHLORIDE (PVC) PIPE DEFLECTIONS SHALL BE ACCOMPLISHED ONLY BY THE USE OF SPECIAL PVC DEFLECTION COUPLINGS. DEFLÉCTION AROUND CURVES SHALL BE ACCOMPLISHED ONLY BY THE USE OF PVC DEFLECTION COUPLINGS.
- 19. THE CONTRACTOR SHALL FURNISH AND INSTALL POLYETHYLENE WRAP, 3 FEET MINIMUM AT ALL TAPS (FOR DI PIPE AND COPPER LATERAL COMBINATION ONLY, AND PLASTIC PIPE (PE TUBING) 3 FEET LONG AFTER METERS FOR ALL SERVICE LATERAL CONNECTIONS.
- 20. ALL SECTION OF THE WATER MAIN REQUIRING REINFORCED CONCRETE JACKETING SHALL BE DUCTILE IRON PIPE CLASS 52 WITH DUCTILE IRON FITTINGS.
- 21. BOSSED TEES REQUIRED FOR ALL LATERAL AND ARV CONNECTIONS TO PVC MAINS.
- 22. THE CONTRACTOR SHALL INSTALL ELECTRONIC MARKERS TO ALL MAINS AND TEST THE ELECTRONIC MARKERS PRIOR TO INSTALLATION S TO VERIFY PROPER OPERATION. DHHL PERSONNEL SHALL VERIFY THE NUMBER AND LOCATIONS OF PLACED ELECTRONIC MARKERS PRIOR TO FINAL PAVING OF THE PROJECT.
- 23. ALL PVC FITTINGS SHALL CONFORM TO THE AWWA C-907. DUCTILE IRON FITTINGS SHALL BE USED FOR ALL TYPES OF FITTINGS NOT SPECIFIED IN AWWA C-907.
- 24. REACTION BLOCK REQUIREMENTS FOR PVC FITTINGS SHALL BE THE SAME FOR DUCTILE IRON FITTINGS.
- 25. THE USE OF HUB CLAMPS AND SET SCREWS ON PVC FITTINGS IS NOT APPROVED.
- 26. PRIOR TO THE PVC FITTING INSTALLATION, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE DHHL, MANUFACTURER'S CERTIFICATION THAT ALL PVC FITTINGS CONFORM TO AWWA C-907.
- 27. ALL DUCTILE IRON PIPES AND VALVES SHALL BE WRAPPED WITH TWO LAYERS OF 8 MIL POLYETHYLENE WRAP. 28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL EFFLUENT ASSOCIATED WITH THE CONSTRUCTION ACTIVITY AND THE DISINFECTION AND HYDROTESTING OPERATIONS TO SAFEGUARD PUBLIC HEALTH AND SAFETY IN ACCORDANCE WITH APPLICABLE DEPARTMENT OF HEALTH REQUIREMENTS. ALL PERMITS AND LICENSES FOR CONSTRUCTION WATER DISPOSAL, INCLUDING ALL APPLICATIONS, CHARGES, FEES, AND TAXES, ARE
- THE RESPONSIBILITY OF THE CONTRACTOR. 29. THE CONTRACTOR SHALL OBTAIN A NPDES PERMIT, AS NEEDED, PRIOR TO CHLORINATION. A COPY OF THE PERMIT SHALL BE SUBMITTED TO THE PROJECT MANAGER.
- 30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIALS, EQUIPMENT AND LABOR FOR CHLORINATION, TRENCH EXCAVATION, BACKFILLING, PAVING, AND OTHER WORK NECESSARY TO COMPLETE THE HOOK-UP, AS DIRECTED BY AND TO THE SATISFACTION OF THE DHHL PROJECT MANAGER.
- 31. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL IN ACCORDANCE WITH SECTION 202.01 F OF THE DWS 2002 WATER SYSTEM STANDARD AND PAINTED WITH ASPHALTIC PAINT.
- 32. MAINTAIN A MINIMUM OF SIX (6) INCHES CLEAR VERTICAL SEPARATION WITH EXISTING UTILITIES AT ALL CROSSINGS.
- 33. ALL EXPOSED COPPER PIPING AND TUBING SHALL BE PAINTED PER THE TECHNICAL SPECIFICATIONS.

CHLORINATION OF WATER SYSTEM PIPELINES

- 1. WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. ALL PROCEDURES AND MATERIALS (LIQUID CHLORINE OR CALCIUM HYPOCHLORITE) USED FOR THE CHLORINATION OF THE PROJECT SHALL CONFORM TO AWWA REQUIREMENTS.
- 2. PRIOR TO CHLORINATION, THE PROJECT PIPELINES SHALL BE THOROUGHLY CLEANED. CLEANING OF LINES 8" AND LARGER SHALL BE BY PIGGING USING FOAM PIGS. SMALLER LINES CAN BE FLUSHED IN ACCORDANCE WITH AWWA REQUIREMENTS IF ADEQUATE WATER SUPPLY IS PROVIDED, OTHERWISE BY PIGGING. THE CONTRACTOR SHALL SUBMIT HIS PLAN FOR PIPELINE CLEANING, INCLUDING FITTING REQUIREMENTS FOR PIGGING, FOR APPROVAL PRIOR TO PROCEEDING.
- 3. THE INTERIOR SURFACES OF THE PROJECT SHALL BE EXPOSED TO THE CHLORINATING SOLUTION FOR A MINIMUM OF 24 HOURS AND THE CHLORINE RESIDUAL SHALL NOT BE LESS THAN 10 PPM AFTER SUCH TIME.
- 4. SHOULD CALCIUM HYPOCHLORITE BE USED, NO SOLID AND/OR UNDISSOLVED PORTION OF THE COMPOUND SHALL BE INTRODUCED INTO ANY SECTION OF THE PROJECT TO BE CHLORINATED.
- 5. AT THE END OF THE 24-HOUR DISINFECTION PERIOD, REPRESENTATIVE SAMPLES SHALL BE TAKEN AND ANALYZED TO ASSURE A CHLORINE RESIDUAL OF AT LEAST 10 PPM. MEASUREMENTS FOR CHLORINE RESIDUAL TESTS SHALL BE BY A TRAINED, QUALIFIED TESTER APPROVED BY THE DIRECTOR.
- 6. SHOULD THE RESULTS INDICATE ADEQUATE CHLORINATION, THE PROJECT SHALL BE THOROUGHLY FLUSHED AND FILLED WITH POTABLE WATER FROM THE EXISTING POTABLE WATER SYSTEM AND AGAIN TESTED FOR CHLORINE RESIDUAL. THE FLUSHING SHALL BE CONSIDERED ADEQUATE IF THE TEST RESULTS INDICATE THAT THE WATER IN THE PROJECT HAS A COMPARABLE CHLORINE RESIDUAL AS THE WATER IN THE EXISTING SYSTEM.
- 7. FOLLOWING THE ACCEPTABLE FLUSHING OF THE HIGH CONCENTRATION CHLORINE SOLUTION, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES SHALL BE TAKEN AT LEAST 24 HOURS APART FROM REPRESENTATIVE POINTS IN THE PROJECT AND SUBJECTED TO MICROBIOLOGICAL TESTS PERFORMED BY A CERTIFIED LABORATORY APPROVED BY THE DEPARTMENT OF HEALTH. AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED AND TESTED FROM EVERY 1,200 FEET OF THE NEW WATER MAIN, PLUS ONE SET FROM THE END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH. POSITIVE RESULTS WILL NOT BE ACCEPTABLE AND THE ENTIRE CHLORINATION PROCESS WILL BE REPEATED.
- 8. ANALYSIS FOR RESIDUAL CHLORINE SHALL BE MADE IN ACCORDANCE WITH "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", AMERICAN PUBLIC HEALTH ASSOCIATION, CURRENT EDITION. MICROBIOLOGICAL TESTS SHALL BE MADE IN ACCORDANCE WITH "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", AMERICAN PUBLIC HEALTH ASSOCIATION, CURRENT EDITION.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF CHLORINATED WATER TO SAFEGUARD PUBLIC HEALTH AND ENVIRONMENT IN ACCORDANCE WITH APPLICABLE STATE DEPARTMENT OF HEALTH REQUIREMENTS. A NEUTRALIZING CHEMICAL SHALL BE APPLIED TO THE WATER TO BE WASTED TO THOROUGHLY NEUTRALIZE THE CHLORINE RESIDUAL REMAINING IN THE WATER IN ACCORDANCE WITH AWWA C651-99, SECTION 4.5.2, AND APPENDIX C.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH, PRIOR TO THE START OF CONSTRUCTION FOR THE DISPOSAL OF WATER USED FOR HYDROTESTING AND CHLORINATION.
- 11. ALL MEASUREMENTS FOR CHLORINE RESIDUAL SHALL BE ANALYZED USING E.P.A. APPROVED METHODS FOR DRINKING WATER.
- 12. ALL MICROBIOLOGICAL TEST SHALL BE PERFORMED BY A LABORATORY APPROVED BY THE DEPARTMENT OF HEALTH, STATE OF HAWAII.

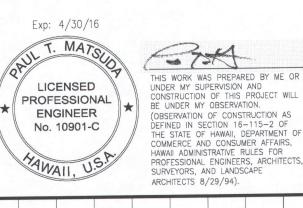
13. SEE ANSI/AWWA C651-99, SECTION 4.3.6 FOR SWABBING CHLORINATION PROCEDURES.

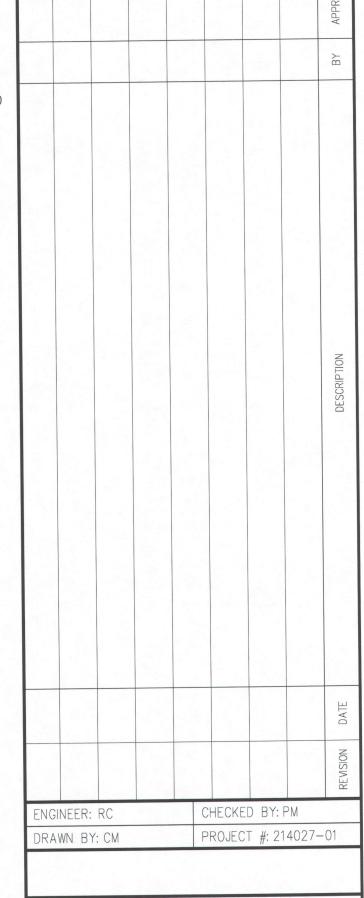
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ALL OF THE FOREGOING.



925 bethel street, fifth floor honolulu, hi 96813-4398

808.523.5866 www.group70int.com





KANAKALOLOA CEMETERY **IMPROVEMENTS**

TMK: (2) 5-2-017:003 HOOLEHUA, MOLOKAI, HAWAII IFB NO.: IFB-16-LDD-011

NOTES 1

APPROVED BY:

POCKET FOLDER NO.

WATER POLLUTION AND EROSION CONTROL NOTES

A. GENERAL:

- 1. EFFECTIVE OCTOBER 1, 2008, FOLLOW THE GUIDELINES IN THE "CONSTRUCTION BEST MANAGEMENT PRACTICES FIELD MANUAL", DATED JANUARY 2008 IN DEVELOPING, INSTALLING AND MAINTAINING THE BEST MANAGEMENT PRACTICES (BMP) FOR THE PROJECT.
- 2. FOLLOW THE GUIDELINES IN THE HONOLULU'S CITY & COUNTY "RULES RELATING TO SOIL EROSION STANDARDS AND GUIDELINES" ALONG WITH APPLICABLE SOIL EROSION GUIDELINES FOR PROJECTS ON MAUI, MOLOKAI, KAUAI, AND
- 3. THE COUNTY ENGINEER OR DEPARTMENT OF HAWAIIAN HOME LANDS (DHHL) MAY ASSESS LIQUIDATED DAMAGES OF UP TO \$27,500 FOR NON-COMPLIANCE OF EACH BMP REQUIREMENT AND EACH REQUIREMENT FOR EVERY DAY OF NON-COMPLIANCE. THERE IS NO MAXIMUM LIMIT ON THE AMOUNT OF ASSESSED PER DAY.
- 4. DHHL WILL DEDUCT THE COST FROM THE PROGRESS PAYMENT FOR ALL CITATIONS RECEIVED BY THE DEPARTMENT FOR NON—COMPLIANCE, OR THE CONTRACTOR SHALL REIMBURSE THE STATE FOR THE FULL AMOUNT OF THE OUTSTANDING COST INCURRED BY THE STATE.
- 5. FOR PROJECTS THAT REQUIRE A NPDES PERMIT FROM THE DEPARTMENT OF HEALTH, INSTALL A RAIN GAGE PRIOR TO ANY FIELD WORK INCLUDING THE INSTALLATION OF ANY SITE—SPECIFIC BEST MANAGEMENT PRACTICES. THE RAIN GAGE SHALL HAVE A TOLERANCE OF AT LEAST 0.05 INCHES OF RAINFALL, AND HAVE AN OPENING OF AT LEAST ONE—INCH IN DIAMETER. INSTALL THE RAIN GAGE ON THE PROJECT SITE IN AN AREA THAT WILL NOT DETER RAINFALL FROM ENTERING THE GAGE OPENING. THE RAIN GAGE INSTALLATION SHALL BE STABLE AND PLUMBED. DO NOT BEGIN FIELD WORK UNTIL THE RAIN GAGE IS INSTALLED AND SITE—SPECIFIC BEST MANAGEMENT PRACTICES ARE IN—PLACE.

B. WASTE DISPOSAL:

1. WASTE MATERIALS:

COLLECT AND STORE ALL WASTE MATERIALS IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. DEPOSIT ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE IN THE DUMPSTER. EMPTY THE DUMPSTER A MINIMUM OF TWICE PER WEEK OR AS OFTEN AS IS DEEMED NECESSARY. DO NOT BURY CONSTRUCTION WASTE MATERIALS ONSITE. THE CONTRACTOR'S SUPERVISORY PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. POST NOTICES STATING THESE PRACTICES IN THE OFFICE TRAILER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

2. HAZARDOUS WASTE:

DISPOSE ALL HAZARDOUS WASTE MATERIALS IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS AND BY THE MANUFACTURER. THE CONTRACTOR'S PROJECT SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES AND SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

3. SANITARY WASTE:

THE SCREEN OR FENCE.

COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK, OR AS REQUIRED.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- INSPECT ALL CONTROL MEASURES AT LEAST ONCE EACH WEEK, AND WITHIN 24 HOURS OF ANY RAINFALL EVENT OF 0.5 INCHES OR GREATER WITHIN A 24 HOUR PERIOD.
- 2. MAINTAIN ALL MEASURES IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS AFTER THE INSPECTION.
- 3. REMOVE BUILT-UP SEDIMENT FROM THE SILT SCREEN OR FENCE WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF
- 4. INSPECT SILT SCREEN OR FENCE FOR DEPTH OF SEDIMENT, TEARS, TO VERIFY THAT THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS OR CONCRETE SLAB AND TO VERIFY THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. INSPECT AND VERIFY THE BOTTOM OF THE SILT SCREEN IS BURIED A MINIMUM OF 6 INCHES BELOW THE
- EXISTING GROUND.
 5. INSPECT TEMPORARY AND PERMANENT SEEDING AND PLANTING FOR BARE SPOTS, WASHOUTS AND HEALTHY GROWTH.
- 6. MAKE A MAINTENANCE INSPECTION REPORT PROMPTLY AFTER EACH INSPECTION. SUBMIT A COPY TO THE PROJECT MANAGER NO LATER THAN ONE WEEK FROM THE DATE OF THE INSPECTION..
- 7. PROVIDE A STABILIZED CONSTRUCTION ENTRANCE TO REDUCE VEHICLE TRACKING OF SEDIMENTS. INCLUDE STABILIZED CONSTRUCTION ENTRANCE IN THE WATER POLLUTION, DUST, AND EROSION CONTROL SUBMITTALS. MINIMUM LENGTH SHOULD BE 50 FEET. MINIMUM WIDTH SHOULD BE 20 FEET. MINIMUM DEPTH SHOULD BE 8 INCHES OR AS RECOMMENDED BY THE SOILS ENGINEER AND UNDERLAIN WITH GEO—TEXTILE FABRIC. CLEAN THE PAVED STREET ADJACENT TO THE SITE ENTRANCE DAILY OR AS REQUIRED TO REMOVE ANY EXCESS MUD, COLD PLANED MATERIALS, DIRT OR ROCK TRACKED FROM THE SITE. COVER DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WITH A TARPAULIN.
- 8. INCLUDE DESIGNATED CONCRETE WASHOUT AREA(S) IN THE WATER POLLUTION, DUST, AND EROSION CONTROL SUBMITTALS.
- 9. SUBMIT THE NAME OF A SPECIFIC INDIVIDUAL DESIGNATED RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
- 10. PERSONNEL SELECTED FOR THE INSPECTION AMD MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE CONTRACTOR. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
- 11. CONTAIN, REMOVE, AND DISPOSE SLURRY GENERATED FROM SAW CUTTING OF PAVEMENT IN ACCORDANCE WITH APPROVED BMP PRACTICES. PAYMENT FOR CONFINEMENT, REMOVAL, AND DISPOSAL OF SLURRY SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
- 12. GOOD HOUSEKEEPING, BEST MANAGEMENT PRACTICES:
- 1. MATERIALS POLLUTION PREVENTION PLAN
- A. APPLICABLE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION. OTHER MATERIALS AND SUBSTANCES NOT LISTED BELOW SHALL BE ADDED TO THE INVENTORY.

CONCRETE

DETERGENTS

PAINTS (ENAMEL AND LATEX)

TAR

CLEANING SOLVENTS WOOD MASONRY BLOCK

PETROLEUM BASED PRODUCTS

- B. USE MATERIAL MANAGEMENT PRACTICES TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. MAKE AN EFFORT TO STORE ONLY ENOUGH PRODUCT AS IS REQUIRED TO DO THE JOB.
- C. STORE ALL MATERIALS STORED ONSITE IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- D. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- E. DO NOT MIX SUBSTANCES WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- F. WHENEVER POSSIBLE, USE A PRODUCT UP COMPLETELY UP BEFORE DISPOSING OF THE CONTAINER.
- G. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.
- H. CONDUCT A DAILY INSPECTION TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

FERTILIZERS

- 2. HAZARDOUS MATERIAL POLLUTION PREVENTION PLAN

 A. KEEP PRODUCTS IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- B. RETAIN ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS).
- C. DISPOSE OF SURPLUS PRODUCTS ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND LOCAL AND STATE REGULATIONS.

WATER POLLUTION AND EROSION CONTROL NOTES (CON'T)

- 3. ONSITE AND OFFSITE PRODUCT SPECIFIC PLAN
- THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:
- A. PETROLEUM BASED PRODUCTS:

 MONITOR ALL ONSITE VEHICLES FOR LEAKS AND PERFORM REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. STORE PETROLEUM PRODUCTS IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. APPLY ASPHALT SUBSTANCES USED ONSITE ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- B. FERTILIZERS:

 APPLY FERTILIZERS USED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE
 APPLIED, WORK FERTILIZER INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE IN
 A COVERED SHED. TRANSFER THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER TO A
 SEALABLE PLASTIC BIN TO AVOID SPILLS.
- PAINTS:
 SEAL AND STORE ALL CONTAINERS WHEN NOT REQUIRED FOR USE. DO NOT DISCHARGE EXCESS PAINT
 TO THE HIGHWAY DRAINAGE SYSTEM. DISPOSE PROPERLY ACCORDING TO MANUFACTURERS' INSTRUCTIONS
 OR STATE AND LOCAL REGULATIONS.
- D. CONCRETE TRUCKS:
 WASH OUT OR DISCHARGE CONCRETE TRUCK DRUM WASH WATER ONLY AT A DESIGNATED SITE. DO NOT
 DISCHARGE WATER IN THE HIGHWAY DRAINAGE SYSTEM OR WATERS OF THE UNITED STATES. CONTACT
 DRINKING WATER BRANCH, DEPARTMENT OF HEALTH AT 808-586-4258 TO RECEIVE PERMISSION TO
 DESIGNATE A DISPOSAL SITE. CLEAN DISPOSAL SITE AS REQUIRED OR AS REQUESTED BY THE OWNER'S
 REPRESENTATIVE.

4. SPILL CONTROL PLAN

- A. POST A SPILL PREVENTION PLAN TO INCLUDE MEASURES TO PREVENT AND CLEAN UP EACH SPILL.
- B. THE CONTRACTOR SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. DESIGNATE AT LEAST THREE SITE PERSONNEL WHO SHALL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS SHALL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. POST THE NAMES OF RESPONSIBLE SPILL PERSONNEL IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.
- C. CLEARLY POST MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP. MAKE SITE PERSONNEL AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- D. KEEP MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP IN THE MATERIAL STORAGE AREA ONSITE.
- E. CLEAN UP ALL SPILLS IMMEDIATELY AFTER DISCOVERY.
- F. KEEP THE SPILL AREA WELL VENTILATED. PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- G. REPORT SPILLS OF TOXIC HAZARDOUS MATERIAL TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

H. PERMIT REQUIREMENTS:

- IF A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS REQUIRED FOR CONSTRUCTION ACTIVITIES OF ONE ACRE OR MORE, SUBMIT TO THE ENGINEER REQUIREMENTS NEEDED FOR PERMIT APPROVAL.
- 1. IF AN NPDES PERMIT FOR CONSTRUCTION DEWATERING IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN THE PERMIT FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH.
- 2. COMPLY WITH ALL APPLICABLE STATE AND FEDERAL PERMIT CONDITIONS.

MINIMUM BEST MANAGEMENT PRACTICES, SMALL PROJECTS:

- 1. DRAINAGE: HANDLE DRAINAGE TO CONTROL EROSION, PREVENT DAMAGE TO DOWNSTREAM PROPERTIES AND RETURN WATERS TO THE NATURAL DRAINAGE COURSE IN A MANNER WHICH MINIMIZES SEDIMENTATION OR OTHER POLLUTION TO THE MAXIMUM EXTENT PRACTICABLE.
- 2. DUST CONTROL: CONTROL DUST EMISSIONS TO THE MAXIMUM EXTENT PRACTICABLE THROUGH BMPS SUCH AS WATER SPRINKLING, DUST FENCES, LIMITING AREA OF DISTURBANCE AND TIMELY GRASSING OF FINISHED AREAS.
- 3. VEGETATION: RETAIN NATURAL VEGETATION, ESPECIALLY GRASSES, WHENEVER FEASIBLE. AVOID STORAGE OF GRUBBED MATERIAL NEAR WATER COURSES.
- 4. EROSION CONTROL: STABILIZE ALL DISTURBED AREAS WITH EROSION CONTROL MEASURES SUCH AS VEGETATION, RUNOFF DIVERSION, CHECK DAMS, MULCHING, BLANKETS, BONDED FIBER MATRICES AND VEHICLE WHEEL WASH FACILITIES.
- 5. SEDIMENT CONTROL: CAPTURE SEDIMENT TRANSPORTED IN RUNOFF TO MINIMIZE THE SEDIMENT FROM LEAVING THE SITE WITH METHODS SUCH AS SEDIMENT BASINS, SEDIMENT TRAPS, SILT FENCES, SAND BAGS, AND VEGETATED FILTER STRIPS.
- 6. MATERIAL AND WASTE MANAGEMENT: PROPERLY STORE TOXIC MATERIALS AND PREVENT THE DISCHARGE OF POLLUTANTS ASSOCIATED WITH CONSTRUCTION MATERIALS. TIMING OF CONTROL MEASURE IMPLEMENTATION: TIMING OF CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN. DISTURBED AREAS OF CONSTRUCTION SITES THAT WILL NOT BE RE-DISTURBED FOR TWENTY-ONE (21) DAYS OR MORE WILL BE STABILIZED (GRASSED OR GRAVELED) BY NO LATER THAN THE FOURTEENTH (14TH) DAY AFTER THE LAST DISTURBANCE.
- 7. STABILIZE CONSTUCTION ENTRANCE: ALL POINTS OF EGRESS AND INGRESS TO A SITE SHALL BE PROTECTED WITH A STABILIZED CONSTRUCTION ENTRANCE.
- 8. STOCKPILES: STOCKPILES SHALL NOT BE LOCATED IN DRAINAGE WAYS OR OTHER AREAS OF CONCENTRATED FLOWS. DURING PERIODS OF WET WEATHER, SUCH AS THE RAINY SEASON, STOCKPILES SHALL BE STABILIZED. COVER STOCKPILES IN PLASTIC WHEN NOT IN USE.
- 9. DUST CONTROL: DUST CONTROL SHOULD BE APPLIED TO REDUCE DUST EMISSIONS. CONTRACTOR TO SPRAY WATER AS NECESSARY.
- 10. TEMPORARY STABILIZATION: DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WILL NOT BE WORKED FOR LONGER THAN (14) DAYS SHALL BE STABILIZED.
- 11. SEDIMENT BARRIERS OR TRAPS: SEDIMENT TRAPPING DEVICES SUCH AS FENCES, TRAPS, BASINS OR BARRIERS SHALL BE USED DOWN SLOPE OF ALL DISTURBED AREAS AND AROUND THE BASE OF ALL MATERIAL STOCKPILES. COVER STOCKPILES WITH PLASTIC.
- 12. INLET PROTECTION: ALL STORM DRAIN INLETS ON SITE, AND THOSE OFFSITE WHICH MAY RECEIVE RUNOFF FROM THE SITE SHALL USE AN INLET PROTECTION DEVICE.
- 13. PERMANENT STABILIZATION: ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED PRIOR TO REMOVING EROSION AND SEDIMENT MEASURE. ALL TEMPORARY EROSION AND SEDIMENT MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND AREAS OF DISTURBED SOIL WHICH RESULT FROM THE REMOVAL OF THE TEMPORARY MEASURES SHALL BE IMMEDIATELY PERMANENTLY STABILIZED. AREAS TO BE PERMANENTLY SEEDED/MULCHED WITHIN 14 DAYS OF FINAL GRADE EXCEPT HOUSE AREA WHICH WILL BE FORMED AND SLABBED WITHIN 14 DAYS.

PUBLIC HEALTH, SAFTY AND ENVIRONMENTAL NOTES

- 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.
- 2. 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.
- 3. THE CONTRACTOR, AT HIS/HER 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 OR DEPARTMENT OF HAWAIIAN HOME LANDS (DHHL) SHALL REQUIRE SUPPLEMENTARY MEASURES AS REQUIRED.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL". BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
- 5. THE CONTRACTOR'S ATTENTION IS DIRECTED TO HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46, "COMMUNITY NOISE CONTROL" IN WHICH MAXIMUM ALLOWABLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION ACTIVITIES FOR THIS PROJECT WILL EXCEED THE ALLOWABLE NOISE LEVELS, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A PERMIT FROM THE DIRECTOR OF THE DEPARTMENT OF HEALTH. THE CONTRACTOR SHALL OBTAIN A COPY OF CHAPTER 46 AND BECOME FAMILIAR WITH THE NOISE LEVEL RESTRICTIONS AND THE PROCEDURES FOR OBTAINING A PERMIT FOR CONSTRUCTION ACTIVITIES. APPLICATION AND INFORMATION ON VARIANCES ARE AVAILABLE AT THE ENVIRONMENTAL HEALTH SERVICES DIVISION, 591 ALA MOANA BOULEVARD, HONOLULU, HAWAII 96813 OR BY TELEPHONE (808–586–4700).

SIGNS AND MARKINGS NOTES:

- 1. ALL TRAFFIC SIGN AND PAVEMENT MARKING INSTALLATIONS SHALL BE DONE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," 2009 EDITION, AS AMENDED, THE LATEST SPECIFICATIONS FROM THE TRAFFIC REVIEW BRANCH, DEPARTMENT OF PLANNING AND PERMITTING, CITY AND COUNTY OF HONOLULU AND AS SHOWN ON THE PLANS.
- 2. CONTRACTOR SHALL NOTIFY AND COORDINATE WORK WITH THE COUNTY OF MAUI, ONE (1) WEEK IN ADVANCE OF COMMENCING WORK, PRIOR TO WORK ON SIGNS/MARKINGS IN THE R/W.
- 3. CONTRACTOR SHALL SUBMIT MATERIAL BROCHURES FOR ALL SIGNS AND PAINT MATERIALS TO THE COUNTY OF MAUI.
- 4. THE SIGNING AND/OR STRIPING CONTRACTOR SHALL KEEP ONE (1) SET OF APPROVED PLANS AT THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION WORK.
- 5. CONTRACTOR SHALL PAINT TEMPORARY GUIDELINES AND OUTLINE OF ARROWS, LEGENDS, AND CROSSWALKS WITH A TWO INCH (2") WIDE BRUSHED LINE ON THE DAY THE ROADWAY IS OPENED TO TRAFFIC. THESE MARKINGS MUST BE APPROVED BY THE INSPECTOR FROM THE COUNTY OF MAUI..
- 6. CONTRACTOR SHALL NOTIFY THE COUNTY OF MAUI THREE (3) DAYS IN ADVANCE OF FINAL INSPECTION.
- 7. CONTRACTOR SHALL MEET WITH THE INSPECTOR FROM THE COUNTY OF MAUI DURING THE FINAL INSPECTION.
- 8. WITHIN TEN (10) DAYS FOLLOWING NOTIFICATION OF AWARD OF CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE COUNTY OF MAUI FOR APPROVAL, A LIST OF ANY SIGNING AND PAVEMENT MARKING MATERIAL WHICH HE PROPOSES TO INSTALL. THE LIST SHALL BE COMPLETE AS TO THE NAME OF MANUFACTURER, CATALOG NUMBER, AND SHALL BE SUPPLEMENTED WITH MATERIAL BROCHURES.
- 9. UPON FINAL INSPECTION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT A LETTER OF CERTIFICATION FOR ALL TRAFFIC SIGNING AND PAVEMENT MARKING MATERIALS INSTALLED.
- 10. SIGNS SHALL BE ATTACHED TO BRACKETS WITH 5/16" ZINC PLATED STEEL BOLTS, NUTS AND WASHERS. SIGNS 48" WIDE OR LARGER THAN 10 SQ FT IN AREA SHALL BE MOUNTED ON TWO 2" GALV. PIPE POST. THE SIGN SHALL BE INSTALLED WITH AT LEAST (1) ONE FOOT CLEARANCE FROM THE SIGN EDGE TO THE CURB FACE, OR EDGE OF PAVEMENT.
- 11. ALL TRAFFIC SIGNS SHALL BE REFLECTORIZED.
- 12. PAVEMENT WORD AND SYMBOL MARKINGS SHALL BE IN ACCORDANCE WITH THE COUNTY OF MAUI STANDARDS.
- 13. THE CONTRACTOR SHALL USE THERMOPLASTIC MATERIAL, FOR ALL CROSSWALKS, STOP BARS, PAVEMENT ARROWS, CENTER LINES, LANE LINES, ARC LINES, CANALIZED TRAFFIC ISLANDS, AND LEGENDS.

MECHANICAL/ELECTRICAL GENERAL NOTES

- 1. THE CONTRACTOR SHALL NOTIFY THE JOINT POLE COMMITTEE TWO (2) WEEKS IN ADVANCE OF ANY RELOCATION OF UTILITY POLE (S) THAT MAY BE NECESSARY.
- 2. THE CONTRACTOR SHALL NOTIFY THE COUNTY OF MAUI THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK ON THE STREET LIGHTING SYSTEM.
- 3. THE STREET LIGHTING SYSTEM SHALL BE KEPT OPERATIONAL DURING CONSTRUCTION. ANY RELOCATION REQUIRED SHALL BE PAID FOR BY THE CONTRACTOR.
- 4. THE LOCATIONS OF THE EXISTING UNDERGROUND STREET LIGHT FACILITIES SHOWN ON THE PLANS ARE FROM EXISTING PLANS AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY TO THE EXISTING STREET LIGHT FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THE EXISTING STREET LIGHTING FACILITIES. ANY AND ALL DAMAGES TO THESE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS COST.

GENERAL NOTES FOR TRAFFIC CONTROL

- 1. THE PERMITTEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
- 2. CONES OR DELINEATORS SHALL BE EXTENDED TO POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
- 3. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA IS PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
- 4. REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED.
- 5. FLAGGERS AND / OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- 6. ALL TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
- 7. ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
- THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).
- 9. LANE CLOSURE SHALL BE LIMITED ONLY TO THE EXTENT OF ACCOMPLISHING EACH DAY'S WORK. AS SOON AS EACH DAY'S WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION. EXISTING FADED OR OBLITERATED PAVEMENT MARKINGS THAT ARE NECESSARY FOR SAFE TRAFFIC FLOW IN THE CONSTRUCTION AREA SHALL BE REPLACED WITH TEMPORARY OR PERMANENT MARKINGS BEFORE OPENING THE ROADWAY TO PUBLIC TRAFFIC EACH DAY.
- 10. PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL BE REPLACED UPON COMPLETION OF EACH PHASE OF WORK.
- 11. CONES AND DELINEATORS SHALL BE SPACED AT A MAXIMUM DISTANCE OF 20 FEET APART. A MINIMUM OF SIX CHANNELIZING DEVICES SHALL BE USED FOR EACH TAPER LENGTH.
- 12. DRIVEWAYS SHALL BE KEPT OPEN UNLESS THE OWNERS OF THE PROPERTY USING THE DRIVEWAY ARE OTHERWISE PROVIDED FOR SATISFACTORILY. FURTHER, THE PERMITTEE SHALL CONTROL TRAFFIC GOING INTO AND OUT OF DRIVEWAYS.
- 13. BUFFER AND TAPER AREA ON APPROACH TO ANY WORK AREA SHALL BE KEPT CLEAR OF VEHICLES AND EQUIPMENT.
- 14. A HIGH LEVEL WARNING DEVICE (FLAG TREE) SHALL BE INSTALLED ON APPROACH TO ALL WORK AREAS.
- 15. "NO PARKING" SIGNS SHALL BE POSTED WITHIN ANY WORK AREA AND FOR THE BUFFER AND TAPER AREAS APPROACHING THE WORK AREA.

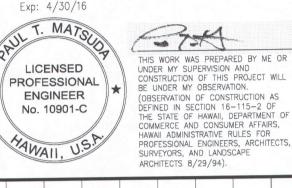
TRAFFIC NOTES TO WORK ON CITY & COUNTY STREETS

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



925 bethel street, fifth floor honolulu, hi 96813-4398

> 808.523.5866 www.group70int.com



ENGINEER: RC CHECKED BY: PM

DRAWN BY: CM PROJECT #: 214027-01

KANAKALOLOA CEMETERY IMPROVEMENTS

TMK: (2) 5-2-017:003 HOOLEHUA, MOLOKAI, HAWAII IFB NO.: IFB-16-LDD-011

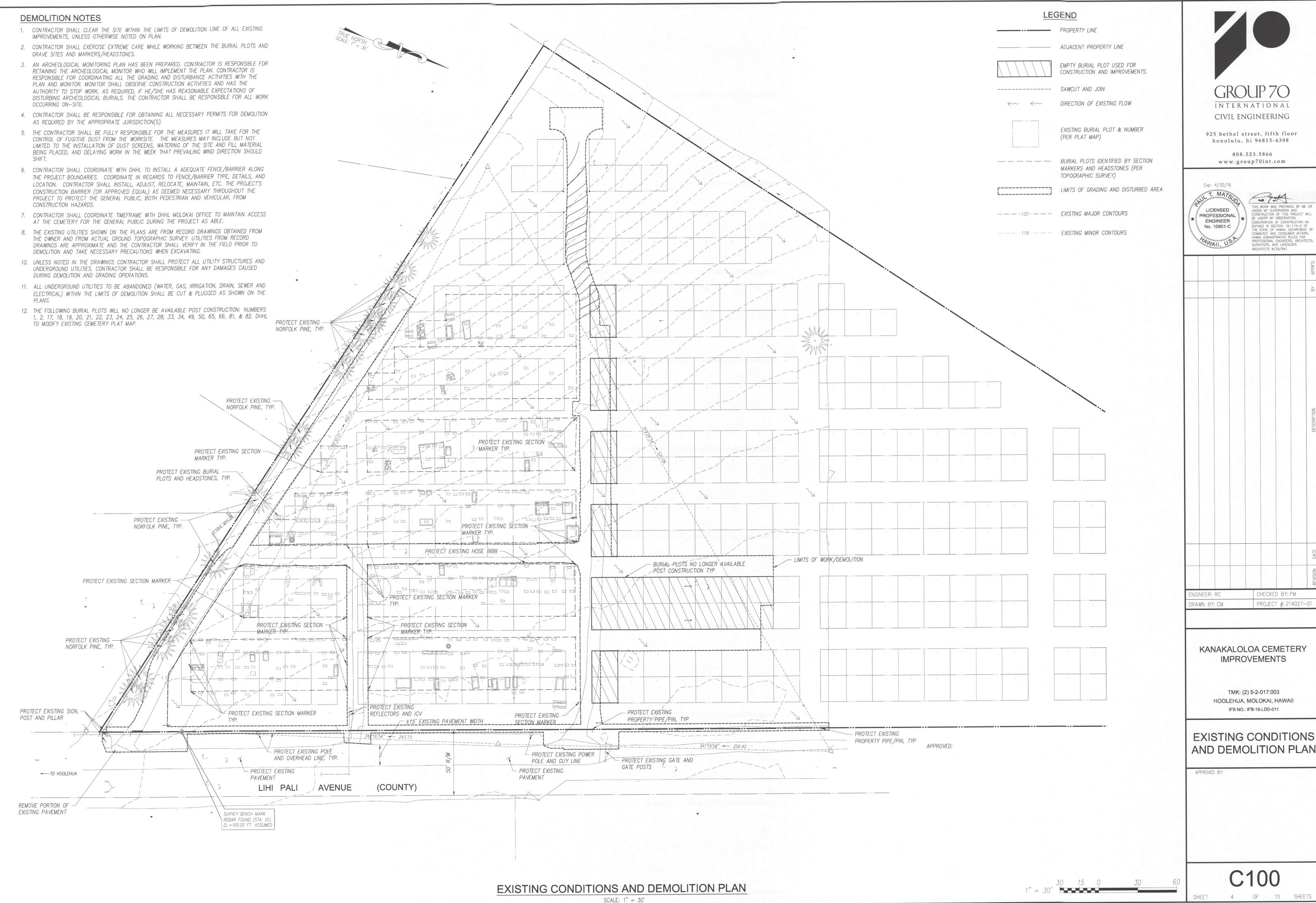
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APPROVED BY:

T003

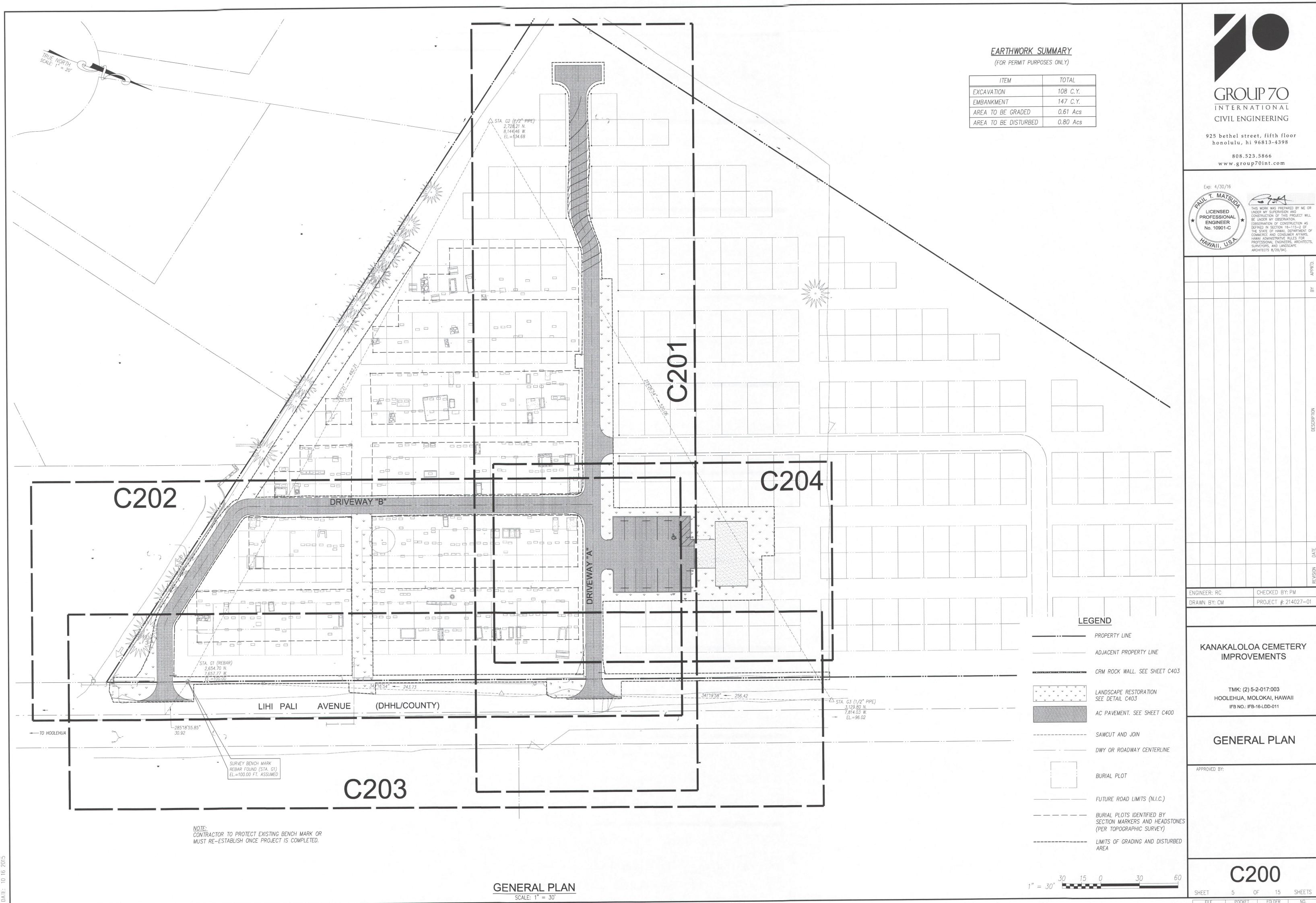
FILE POCKET FOLDER

PROJECT NAME: KANAKALOLOHA CEMETERY IMPROVEN CAD DWG NO.: 214027-01 T003 NOTES 2.dwg DATE: 08 14 2015

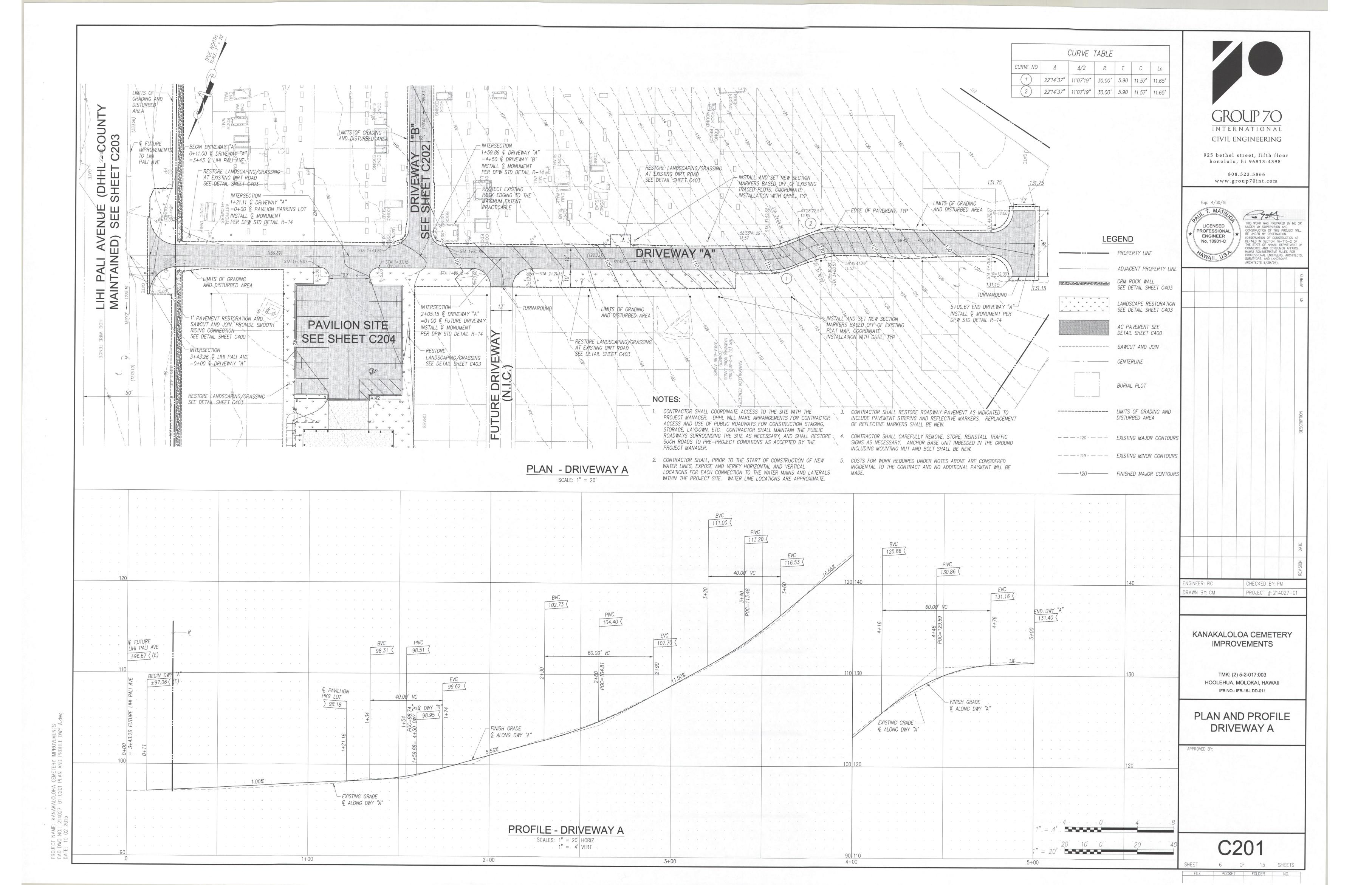


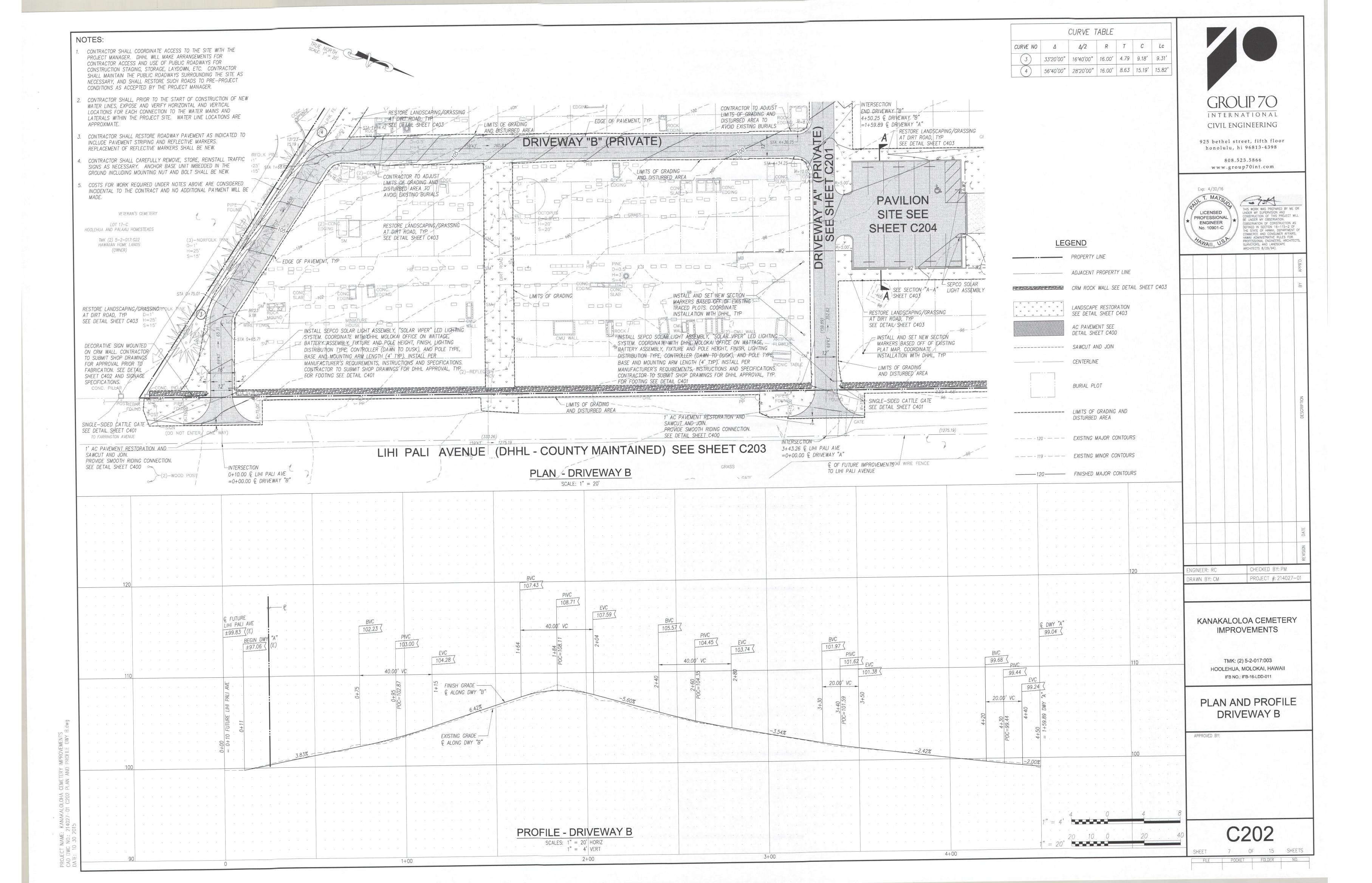
PROJECT NAME: KANAKALOLOHA CEMETERY IMPROVEMENTS

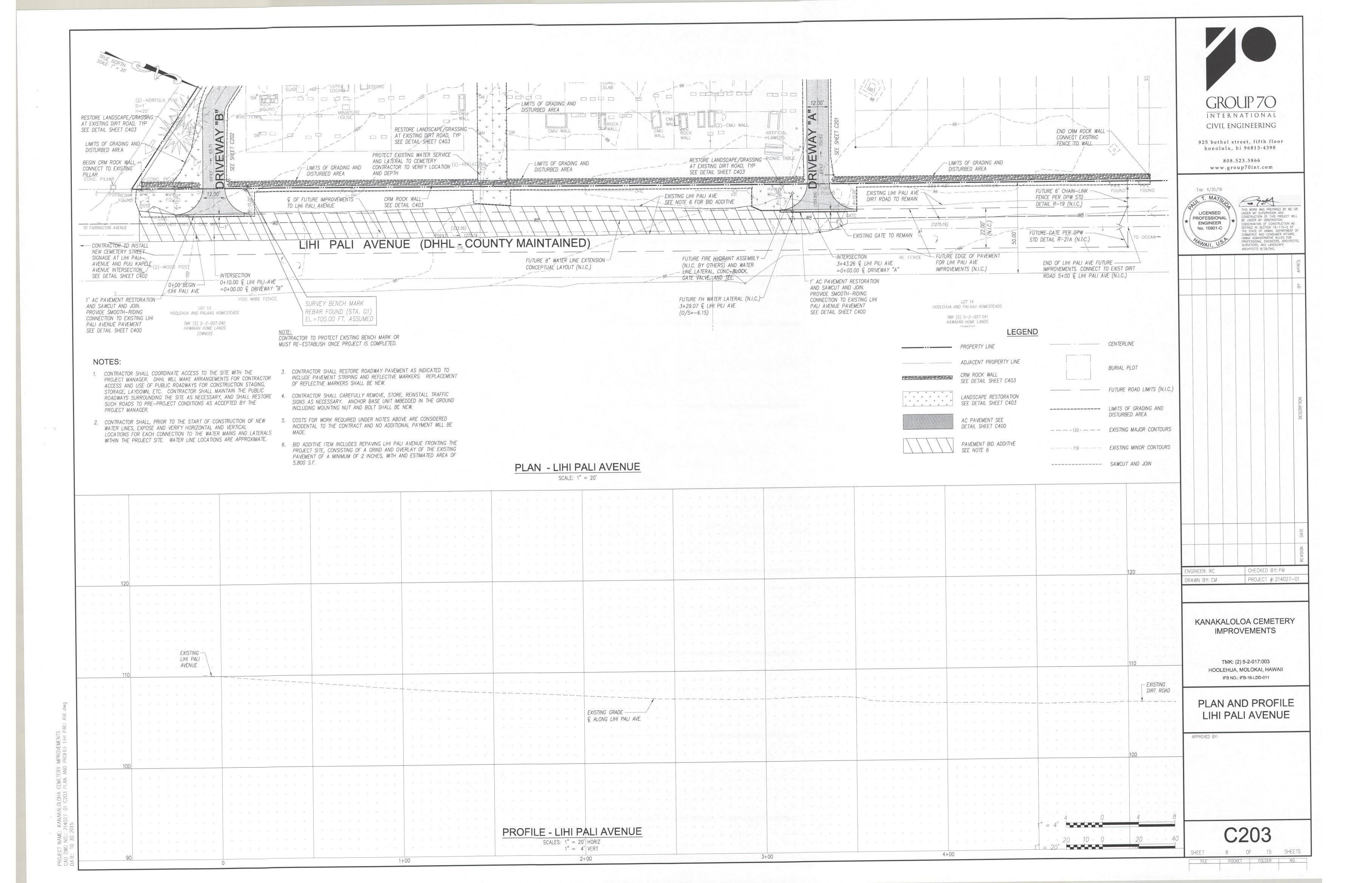
FILE POCKET FOLDER

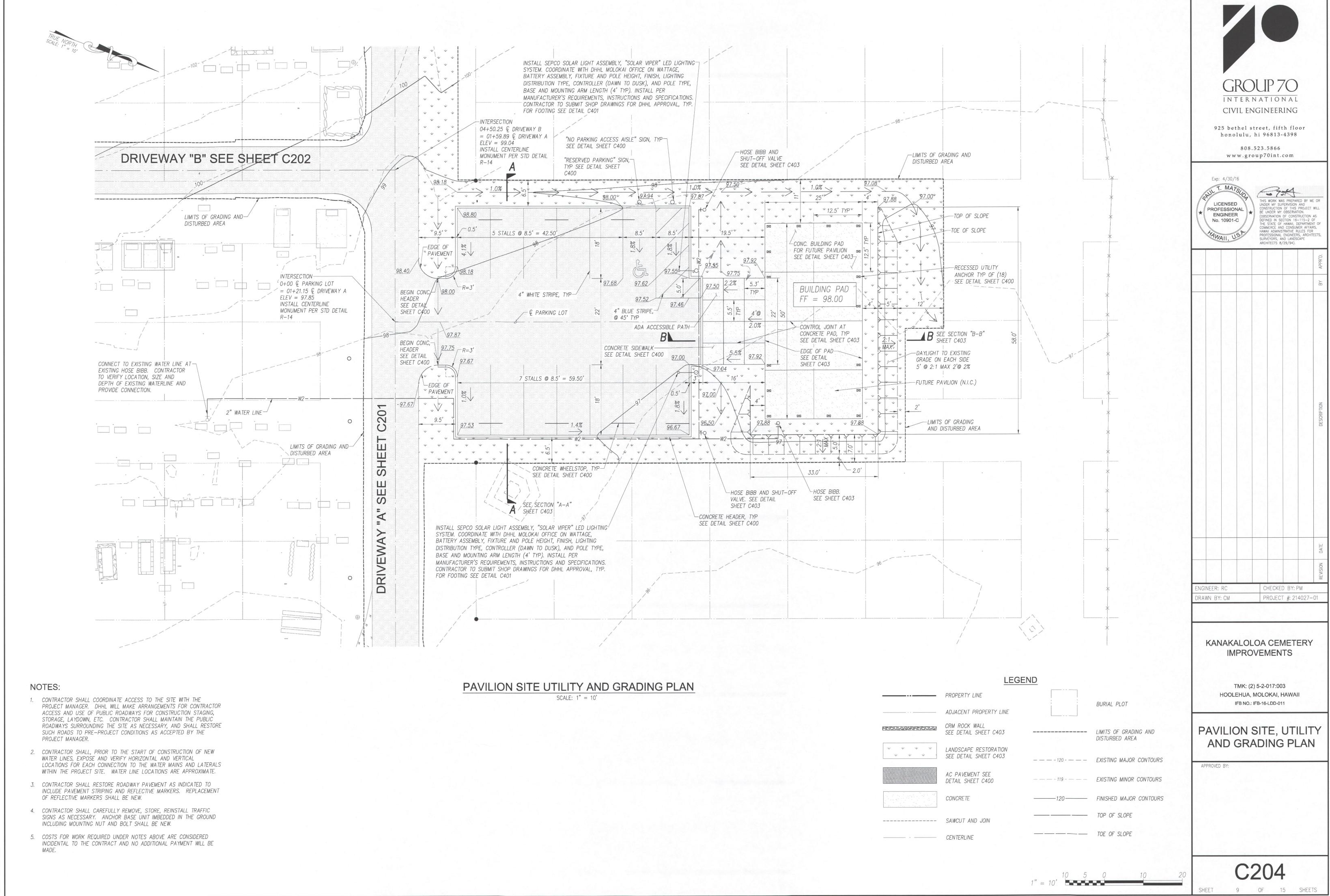


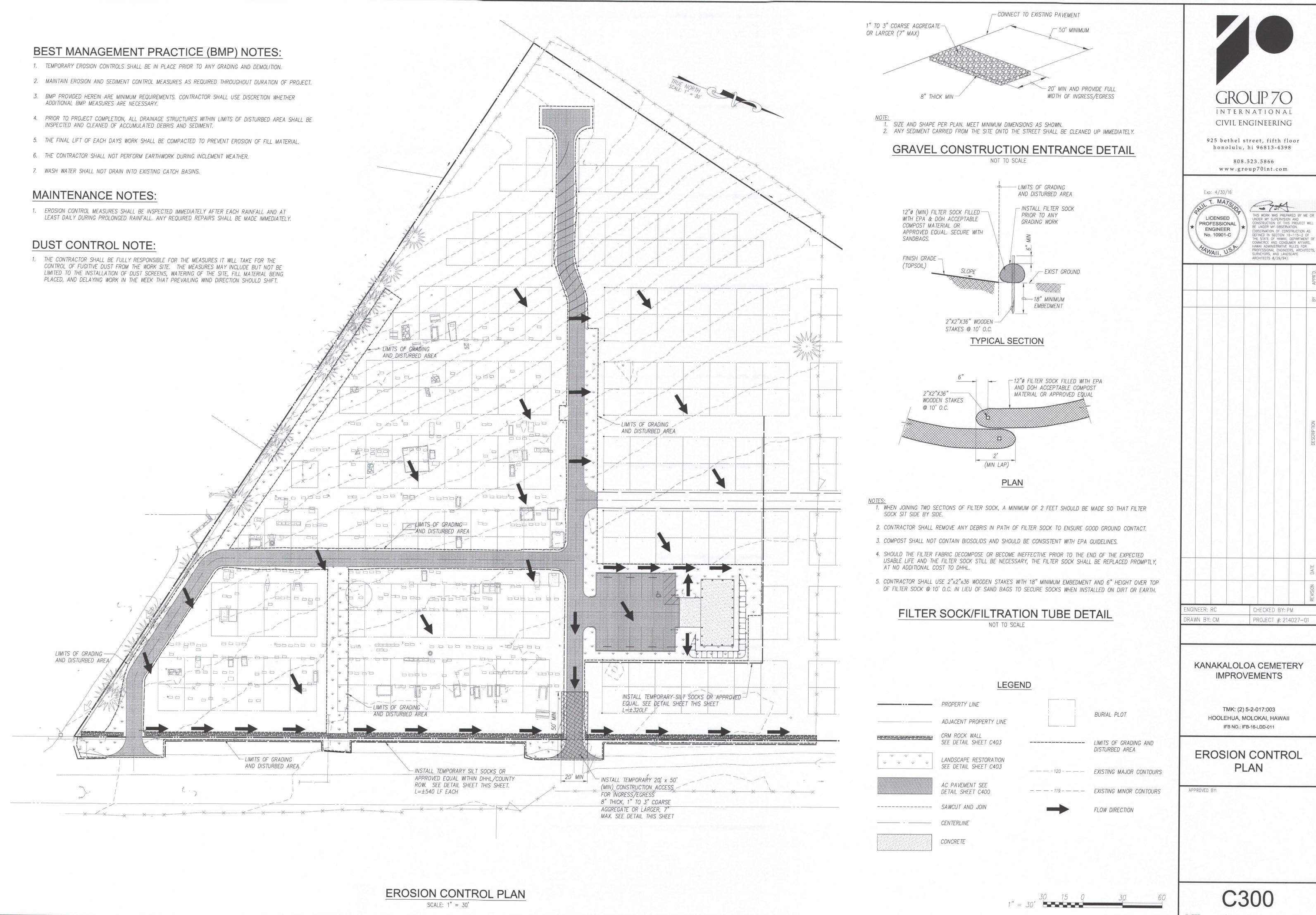
FILE POCKET FOLDER NO.

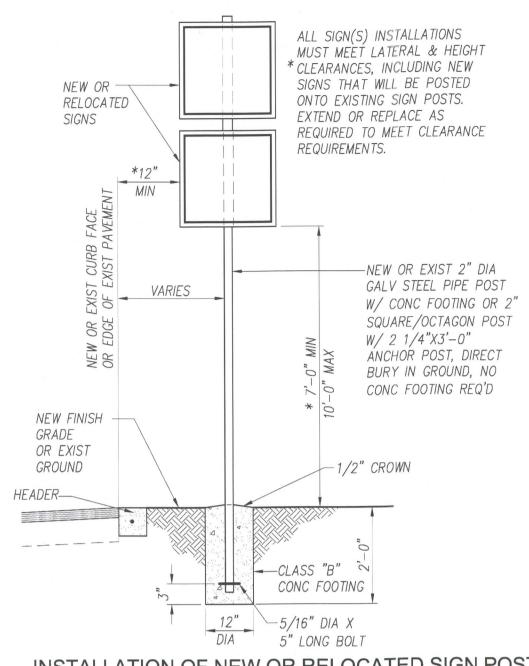




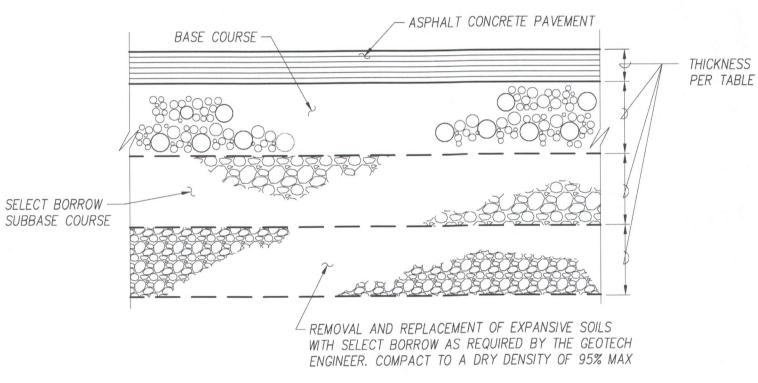








INSTALLATION OF NEW OR RELOCATED SIGN POST SIGN POST INSTALLTION (PRIVATE) NOT TO SCALE



| MATERIAL | LIHI PALI AVE. (N.I.C.) | PRIVATE DWYS "A" "B" & PARKING LOT |
|------------------------|-------------------------|------------------------------------|
| A.C. PAVEMENT (MIX IV) | 4" | 2" |
| BASE COURSE | 6" | 6" |
| SELECT BORROW | 12" | 12" |

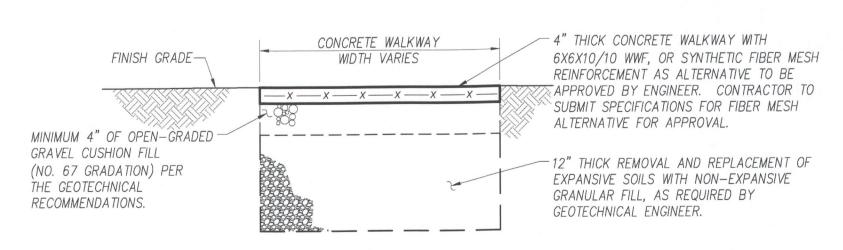
NOTE:

1. COMPACT TO DENSITY PER GEOTECHNICAL RECOMMENDATIONS.

2. SEE C200 TO C204 FOR PAVEMENT TYPE LOCATIONS

TYPICAL ASPHALT PAVEMENT (PRIVATE)

NOT TO SCALE

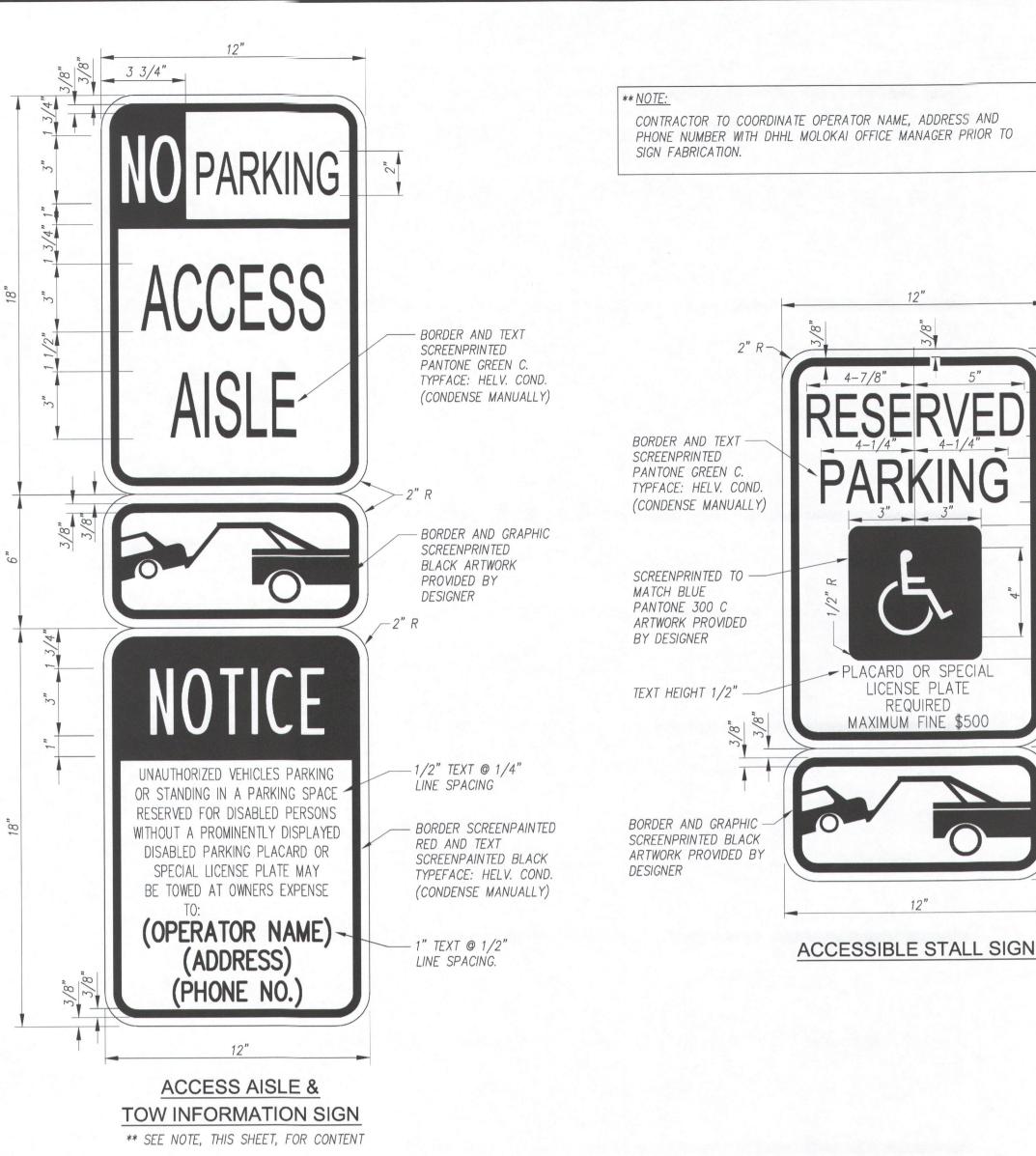


1. ALL CONCRETE WALKWAYS (COUNTY/DHHL AND PRIVATE) SHALL BE CONSTRUCTED PURSUANT TO "SECTION 42 - CONCRETE SIDEWALKS" OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND PER COUNTY OF MAUI STANDARD DETAIL R-56.

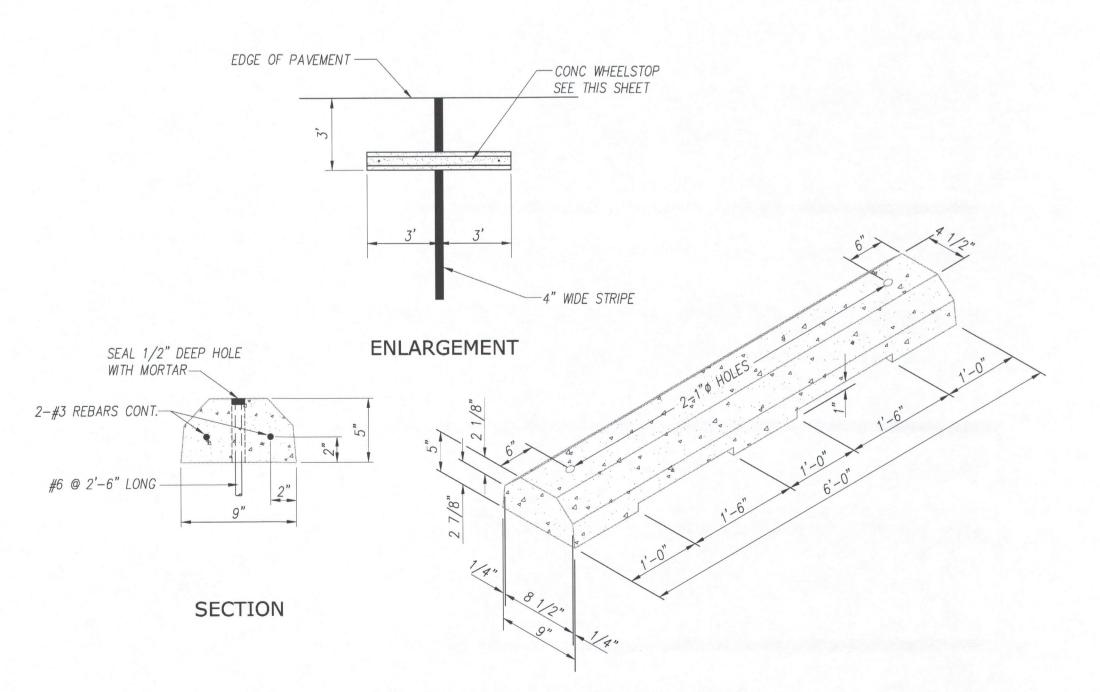
2. CONTRACTOR TO INSTALL JOINTS FOR NEW CONCRETE WALKWAYS PER DETAIL R-10 AND R-11, AND AT LOCATION SHOWN PER PLAN.

CONCRETE WALKWAY (PRIVATE)

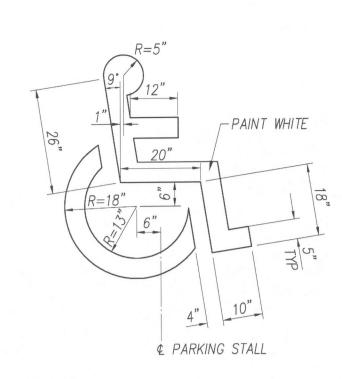
NOT TO SCALE



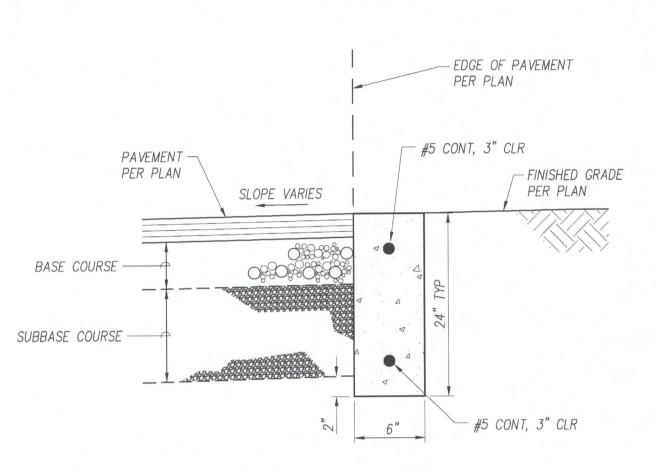
ACCESSIBLE SIGNS (PRIVATE) NOT TO SCALE



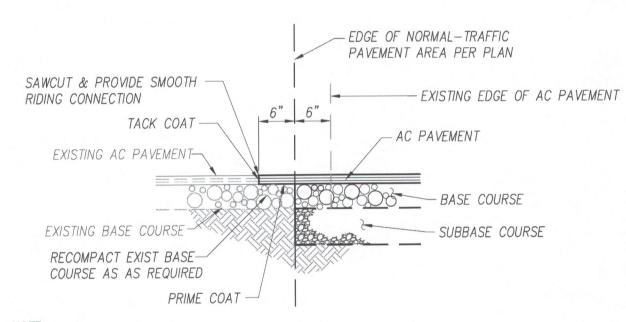
PRECAST CONCRETE WHEELSTOP (PRIVATE) NOT TO SCALE



ADA ACCESSIBLE MARKING (PRIVATE) NOT TO SCALE

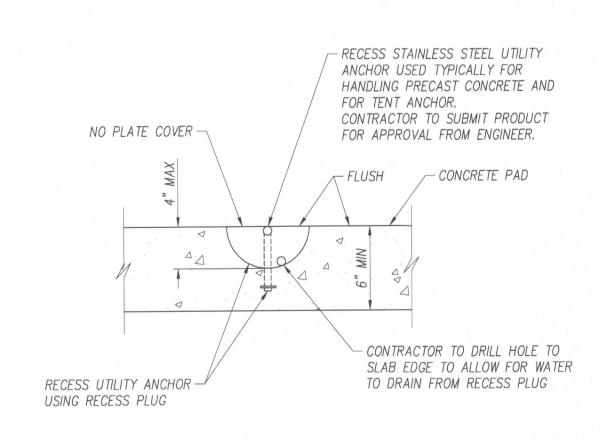


CONCRETE HEADER (PRIVATE) NOT TO SCALE



NOTE: SEE SITE PLAN FOR LOCATION AND TYPES OF AC PAVEMENTS, AND CONNECTIONS TO EXISTING.

NORMAL AC PAVEMENT CONNECTION (PRIVATE) NOT TO SCALE

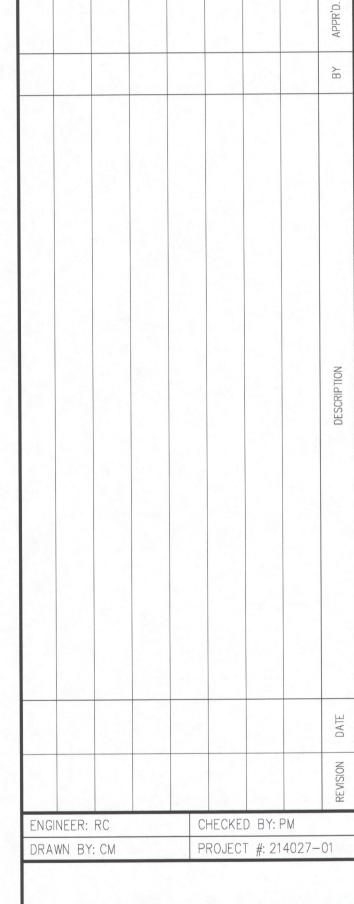


RECESSED UTILITY ANCHOR DETAIL (PRIVATE)





www.group70int.com

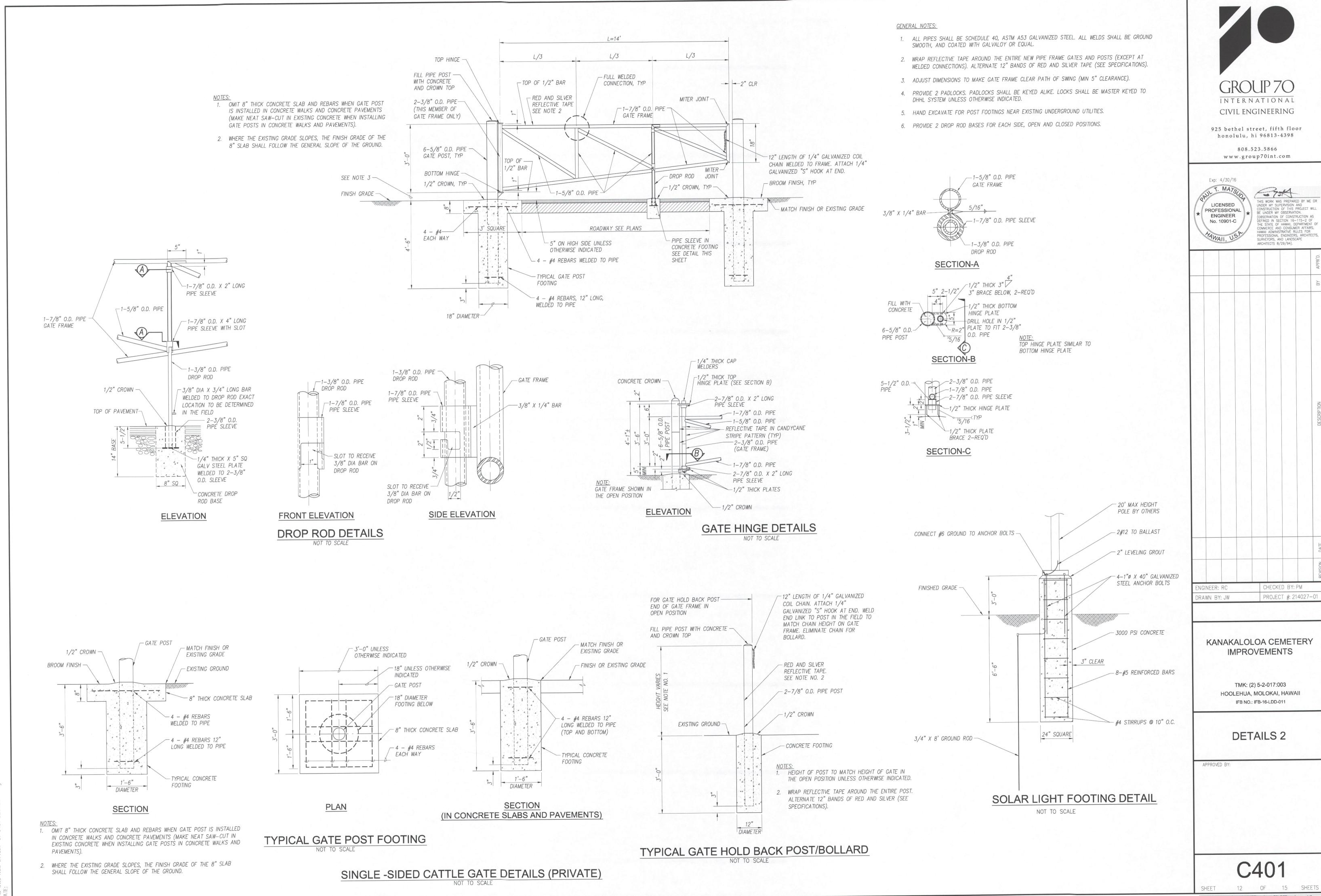


KANAKALOLOA CEMETERY **IMPROVEMENTS**

TMK: (2) 5-2-017:003 HOOLEHUA, MOLOKAI, HAWAII IFB NO.: IFB-16-LDD-011

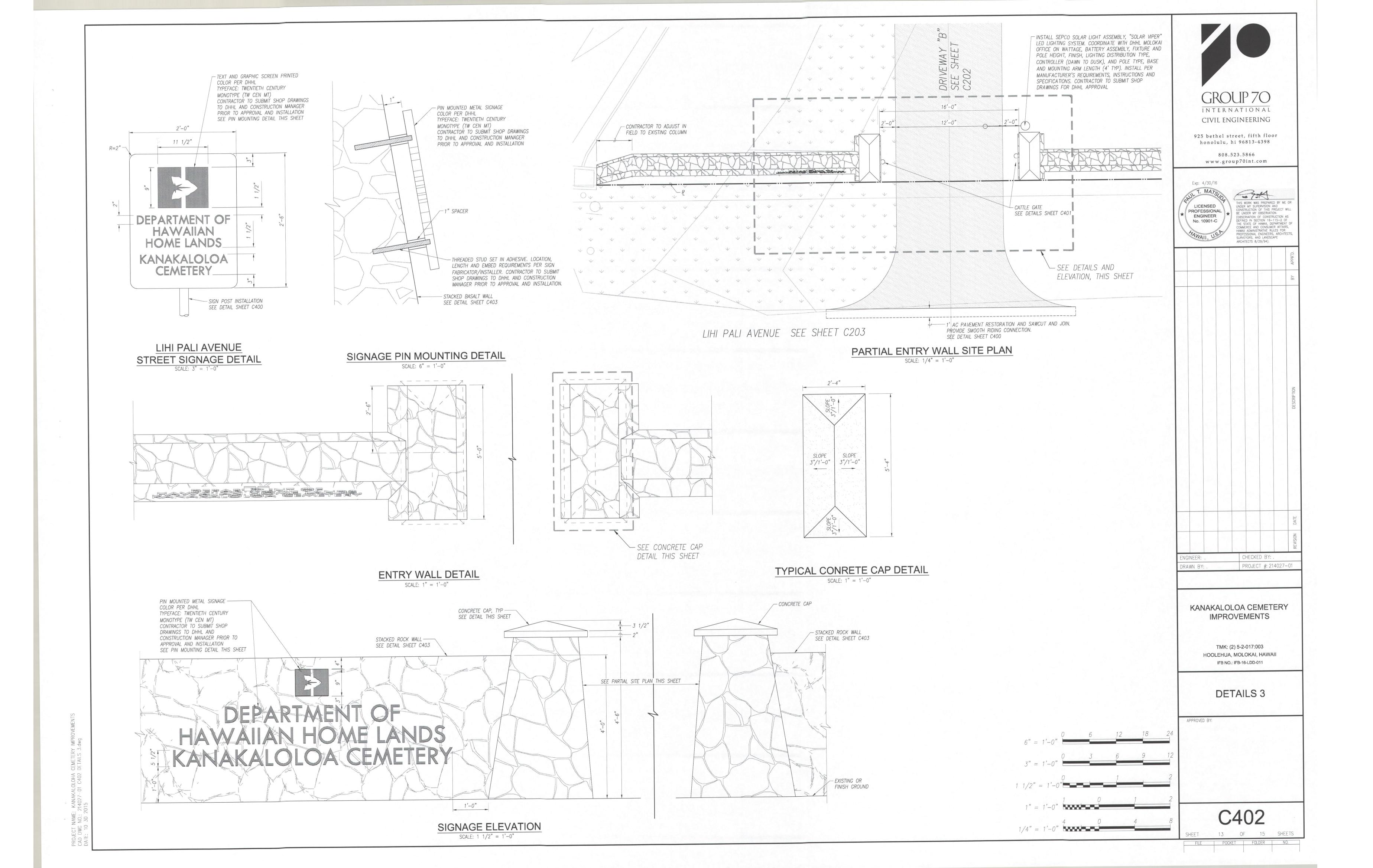
DETAILS

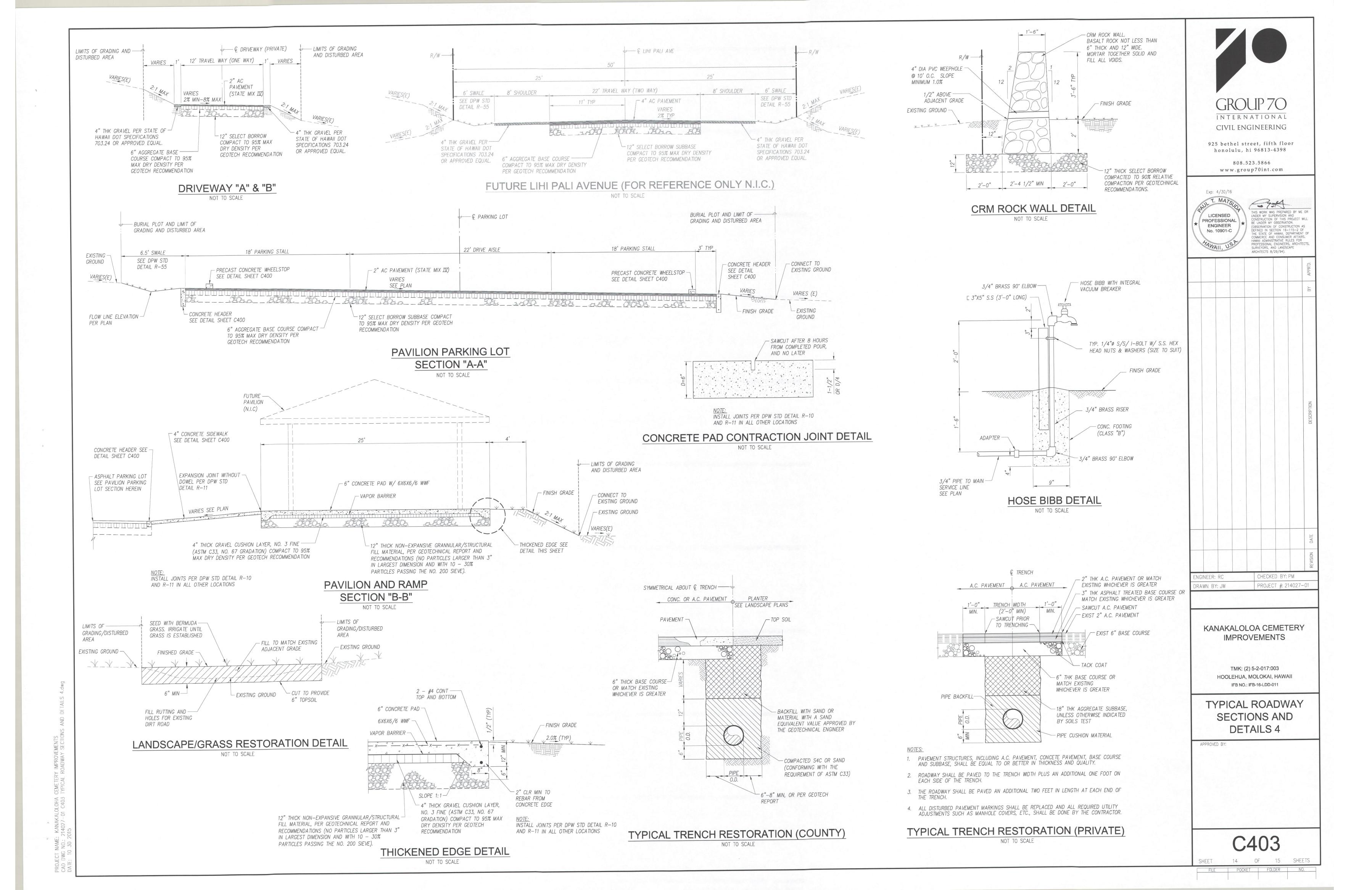
APPROVED BY:

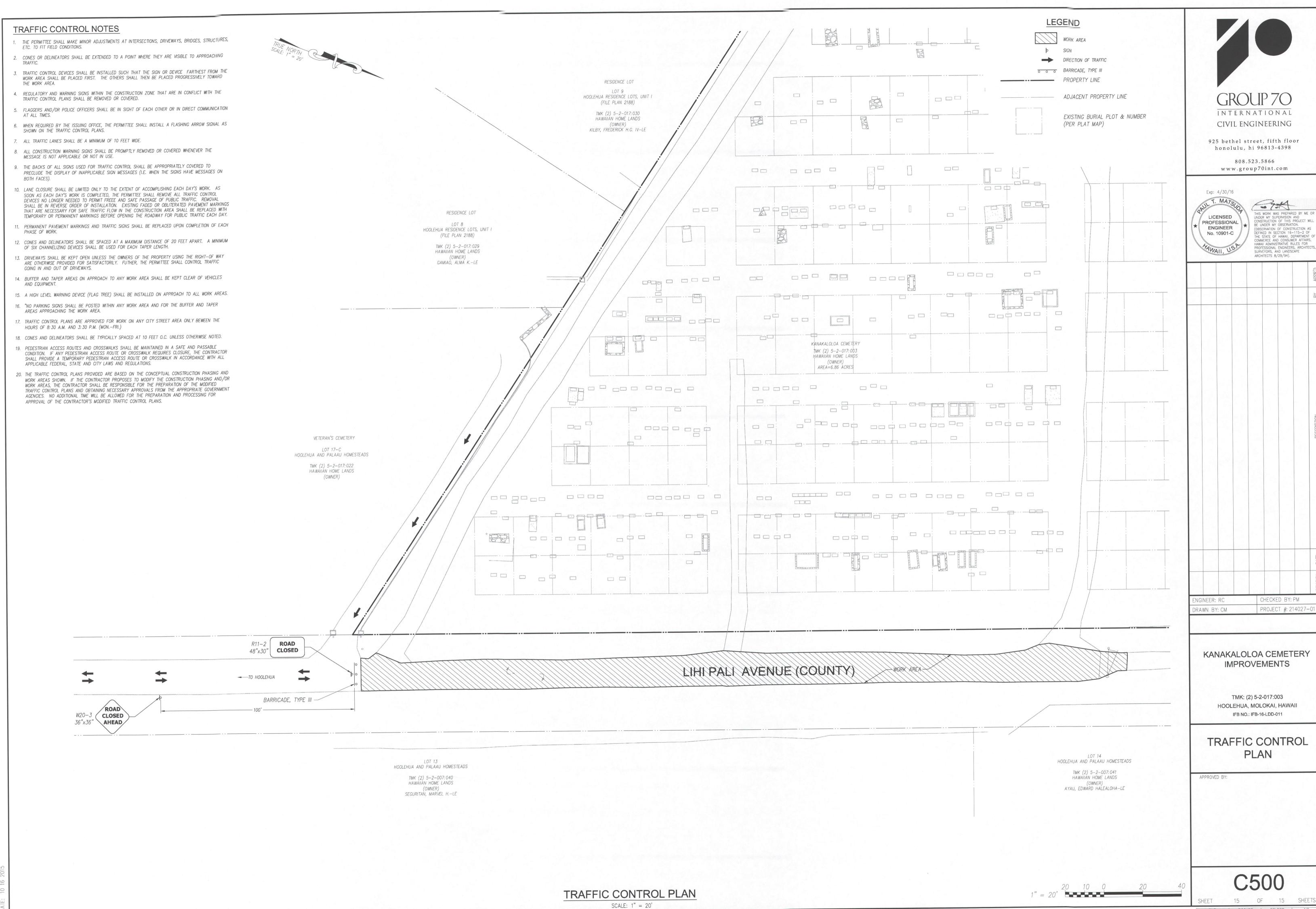


PROJECT NAME: KANAKALOLOHA CEMETERY IMPROVEMENTS CAD DWG NO.: 214027-01 C401 DETAILS 2.dwg

FILE POCKET FOL









STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS 91-5420 Kapolei Parkway, Kapolei, HI. 96707

Appendix

FOR

FURNISHING LABOR AND MATERIALS FOR

Kanakaloloa Cemetery Improvements

Hoolehua, Molokai, Hawaii

TAX MAP KEY: (2) 5-2-017:003

IFB NO.: IFB-16-HHL-011

May 2015



| | DHHL REQUIRED SUBMITTALS (State of Hawaii / SOH) | | | | | | | |
|---|--|------------------|------------------------------|--------------------------------------|--|--|--|--|
| # | SUBMITTAL | FORM | MUST BE SUBMITTED | REFERENCE | | | | |
| 1 | SUBMITTALS REQUIRED PRIOR TO BID | | | | | | | |
| | Intent to Bid | DHHL Form | 10 Calendar Days before Bid | GC 2.1.1 | | | | |
| | Statement of Bidder's Construction Experience | DHHL Form | 10 Calendar Days before Bid | | | | | |
| | Valid Tax Clearance Certificate (Dept. of Taxation) | SOH & Federal | 10 Calendar Days before Bid | Submit clearance from SOH & IRS | | | | |
| | Substitution of Materials/Equipment | Letter | 14 days prior to bid opening | | | | | |
| | | | | | | | | |
| 2 | ITEMS REQUIRED WITH BID | | | | | | | |
| | Form of Bid | DHHL Form | With Bid | Included with construction documents | | | | |
| | Surety Bid Bond (5% of Bid Amount) | SOH Form | With Bid | GC 2.9 | | | | |
| | Corporate Resolution | Company Standard | With Bid | Must be notarized | | | | |
| | List of General & Subcontractors | DHHL Form | With Bid | Included with construction documents | | | | |
| | Prime Certification of Subcontractor's Eligibility | DHHL Form | With Bid | Included with construction documents | | | | |
| | | | | | | | | |
| 3 | SUBMITTALS REQUIRED BY LOW BIDDER | N/A | N/A | | | | | |
| | | | | | | | | |
| 4 | SUBMITTALS REQUIRED AT AWARD | | | | | | | |
| | Contract Agreement | SOH Form | Contract | | | | | |
| | Non-Collusive Affidavit/Non-Identity of Interest Affidavit | DHHL Form | With Contract | | | | | |
| | Labor and Material Bond | SOH Form | With Contract | | | | | |
| | Performance and Payment Bond | SOH Form | With Contract | | | | | |
| | Surety Acknowledgement | SOH Form | With Contract | | | | | |
| | Contractor Acknowledgement | SOH Form | With Contract | Requires corporate resolution | | | | |
| | Certificate of Insurance | Standard Form | With Contract | GC 7.3 | | | | |
| | 3-122-112, H.A.R. (Department of Labor) | SOH Form LIR-27 | With Contract | | | | | |
| | Valid Tax Clearance Certificate (Dept. of Taxation) | SOH & Federal | With Contract | Submit clearance from SOH & IRS | | | | |
| | Certificate of Good Standing (DCCA) | SOH Form | With Contract | | | | | |
| | Offer Form | SOH Form | With Contract | | | | | |
| | | | | | | | | |
| 5 | SUBMITTALS REQUIRED AFTER AWARD | | | | | | | |
| | Schedule of Submittals | | 10 Calendar Days after NTP | | | | | |
| | Material & Equipment Delivery Schedule | | 20 Calendar Days after Award | GR 3.03 | | | | |
| | Construction Progress Schedule | | 15 Calendar Days after NTP | GR 10 | | | | |
| | Schedule of Values | DHHL Form 51000 | 15 Calendar days from NTP | G.R. 11; G.C. 7.2.4 | | | | |
| | List of Suppliers | | | GC 6.2 | | | | |
| | | | | | | | | |
| 6 | SUBMITTALS REQUIRED PRIOR TO START OF CONSTRUCTION | | | | | | | |

| # | SUBMITTAL | FORM | MUST BE SUBMITTED | REFERENCE |
|---|---|-----------------|------------------------------|--|
| | Emergency Contact List | | 10 days after NTP | G.R. 20 |
| | List of Supervisory Personnel & Employees | | 10 days after NTP | |
| | Safety Plan | | 10 days after NTP | GC 7.16 |
| | Permits | | 10 days after NTP | All required permits |
| 7 | SUBMITTALS REQUIRED ON SPECIFIC OCCASSIONS | | | |
| | Schedule of Submittals Update | | Monthly with Pay Request | |
| | Construction Progress Schedule Update | | Monthly with Pay Request | |
| | Contractor's Certification of Payment | | Monthly with Pay Request | |
| | Geotechnical Engineer Reports | | Within 24 hrs. of completion | G.R. 13 |
| | Construction Progress Meeting Minutes | | 24 hours after meeting | GR 25 |
| | Archaeological Site Notification | | Immediate notification | G.R. 15; G.C. 7.18 |
| | Overtime/Holiday/Weekend Notification | | 2 working days in advance | |
| | Contractor's Certified Payrolls | | Weekly | GC 7.9 |
| | Subcontractors' Certified Payrolls | | Weekly | GC 7.9 |
| 8 | SUBMITTAL S DESURED AT COMPLETION | | | |
| 8 | SUBMITTALS REQUIRED AT COMPLETION | | | GC 7.9 |
| | Final Payroll Records Warranty of Clear Title | | | GC 7.9 |
| | Final Payment | | | GC 8.8 |
| | | SOH Form-22 | | GC 8.8 |
| | Certification of Compliance for Final Payment | SOH FOIIII-22 | M/b are a abias and | GC 7.31 |
| | Substantial Completion Notification Notice of Final Inspection | | When achieved | GC 7.31 |
| | Certificate of Insurance | Standard Form | | GC 7.31 |
| | | Standard Form | | |
| | Non-Gratuity Affidavit | | | |
| | Certificate of Release - all subcontractors | | | |
| | Certificate of Release - Surety Certificate of Occupancy for Building | | | Formal local government apprecial |
| | | COLL 0 Fordered | | Formal local government approval Submit clearance from SOH & IRS |
| | Valid Tax Clearance Certificate (Dept. of Taxation) | SOH & Federal | | Submit clearance from SOH & IRS |
| _ | | END OF S | BECTION | |

SUBSTITUTION REQUEST¹

| DATE | | | |
|---|----------------------------------|-------------------------------------|---|
| Project Manag Department of 91-5420 Kapo Kapolei, Hawa | f Hawaiian Home blei Parkway, | Lands | |
| SUBJECT | : <u>SUBS</u> | STITUTION REQUEST | |
| PROJECT | TTITLE: | | |
| IFB NO: _ | | _ | |
| In accordan | ce with the require | ements of the DHHL GENERAL | CONDITIONS, enclosed ² |
| are three (3) |) sets of technical | brochures and statement of varia | ances for your review and |
| approval for | the item(s) shown | n below. | |
| SECTION/ ITEM | SPECIFIED BRAND | SUBSTITUTE OR ALTERNATE BRAND | VARIANT ³ <u>FEATURES</u> |
| [I/Company ce variant feature | | t the substitution request of the a | bove item(s) has no other |
| | | COMPANY | |
| | | SIGNATURE | DATE |
| | | ITS | |
| NOTE: | | | |

- 1. Use own letterhead
- 2. Submit one (1) original and two (2) copies
- 3. If no variant features indicate "None"
- 4. Fill in appropriate entity

CERTIFICATION OF RECYCLED CONTENT

| Solicitation | on No.: | | | | | | | |
|---|-----------------|------------------------|--------------|--|-----------------------------------|--|--|--|
| Title: | | | | | | | | |
| Issuance | Date: | | | | | | | |
| Opening | Date: | | | | | | | |
| Item No. | Product Name | Product Description | Manufacturer | Post-Consumer Recovered Material Content* | Recovered Material Content* | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| *Post-consumer recovered material and recovered material content, as defined in section 3-124-21, HAR, measured as percentage of total product weight. Attach manufacturer's specifications or certification, as required by section 3-124-24(d), HAR. Recycled content measurements to be used for bid evaluation. If more space is required for product information, additional sheets may be attached. | | | | | | | | |
| _ | | E RECYCLED CONT | _ | | AND IS TO | | | |
| THE BEC | or with the | NOWLEDGE AND BE | • | authorized Represer | ntative | | | |
| Company | / : | | Name: | Name: | | | | |
| Name: | | | Title: | Title: | | | | |
| Address: | | | Signature: | Signature: | | | | |
| Telephone: Date: | | | | | | | | |

| STATE OF HAWAII | | | DATE |
|--------------------------------|--|------------------------|---------------------------------------|
| DEPARTMENT OF HAW | AIIAN HOME LANS | | |
| CHANGE OF SUBCONT | | | |
| PROJECT TILE: | III III III III III III III III III II | PROJECT NO.: | CONTRACT NO.: |
| | | | |
| REQUESST BY GENERAL CON | ITRACTOR | | |
| NAME: | | | |
| REPRESENTING: | | | |
| ADDRESS: | | | |
| | | | |
| | | | |
| PHONE NUMBER: | FAX NUMBER: | | LICENCE NUMBER: |
| SUBCONTRACTOR/CONTRAC | CTOR TO BE REPLACED | <u></u> | |
| NAME | | | CATEGORY OF WORK |
| REPRESENTING: | | | MBE □ YES □ NO |
| ADDRESS: | | | WBE □ YES □ NO |
| | | | SUBCONTRACT AMOUNT: |
| PHONE NUMBER: | FAX NUMBER: | | LICENCE NUMBER: |
| REASON FOR CHANGE (selec | ct one of the following) | | |
| ☐ Subcontractor will not perf | form the work as specified. | | |
| Explanation: | | | |
| | | | |
| | | | |
| | | | |
| ☐ Attached is a letter from th | ne Subcontractor/Contractor requestir | ng release from work o | n this project on his/her letterhead. |
| □ Attached is documentation | n showing non-performance or non-re | spansivanass | |
| Attached is documentation | r showing non-performance or non-re | sponsiveness. | |
| PROPOSED REPLACEMENT S | UBCONTRACTOR | | |
| NAME | | | CATEGORY OF WORK |
| REPRESENTING: | | | MBE □ YES □ NO |
| ADDRESS: | | | WBE □ YES |
| | | | SUBCONTRACT AMOUNT: |
| PHONE NUMBER: | FAX NUMBER: | Т | \$ LICENCE NUMBER: |
| | TAX NOIVIBEN. | | LISEITEE HOMBEN. |

| APPROVAL/DENIAL BY OWNER | | |
|-------------------------------------|--|-----------------------------------|
| RECOMMENDATION OF CONTRUCTION REPR | ESENTATIVE | |
| □ Approval □ Denial Reason: | LJENTATIVE | |
| | | |
| PRINT NAME | SIGNED | DATE |
| | | |
| RECOMMENDATION OF MINORITY CONTRAC | TORS ADMINISTRATOR (Required for Replace | cement of MBD/WBE Sub-Contractor) |
| □ Approval □ Denial Reason: | | |
| PRINT NAME | SIGNED | DATE |
| REQUEST FOR CHANGE FROM SUB-CONTRAC | TOR TO SUB-CONTRACTOR WITH AN MBE _ | % WBE% IS: |
| UNIT MANAGER, PROJECT MANAGEMENT | SIGNED | DATE |
| | | |

DHHL Pay Request Worksheet

Payment Request No:

SAMPLE WORKSHEET

| | | | | (C) x (D) | (E) x 5% | (E) - (F) | Prior (G) | (G) - (I) |
|---------------------------------|-------------------|--------------------|---------------------|-----------------------------|------------|-------------------------|----------------------------------|---------------|
| (A) | (B) | (C) | (D) | (E) | (F) | (G) | (I) | (J) |
| | | | | Amount | | Net | Previous | |
| Description of Work | Account Number | Contract Amount | Percent Complete | Earned to Date | Retention | Amount Earned | Payments Received | Amount Due |
| Roads/Parking Areas | 1450 | 236,000.00 | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Walkways | 1450 | 175,000.00 | 60.00% | 105,000.00 | 5,250.00 | 99,750.00 | 83,125.00 | 16,625.00 |
| Exterior Stairs/Steps | 1450 | 75,000.00 | 50.00% | 37,500.00 | 1,875.00 | 35,625.00 | 21,375.00 | 14,250.00 |
| Fencing/Retaining Walls | 1450 | 125,000.00 | 25.00% | 31,250.00 | 1,562.50 | 29,687.50 | 29,687.50 | 0.00 |
| Ground Work | 1450 | 225,000.00 | 75.00% | 168,750.00 | 8,437.50 | 160,312.50 | 149,625.00 | 10,687.50 |
| Onsite Infrastructure | 1450 | 200,000.00 | 65.00% | 130,000.00 | 6,500.00 | 123,500.00 | 76,000.00 | 47,500.00 |
| Electrical Distribution Systems | 1450 | 250,000.00 | 50.00% | 125,000.00 | 6,250.00 | 118,750.00 | 47,500.00 | 71,250.00 |
| Site Lighting | 1450 | 50,000.00 | 15.00% | 7,500.00 | 375.00 | 7,125.00 | 7,125.00 | 0.00 |
| Landscaping | 1450 | 115,000.00 | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Miscellaneous Site Work | 1450 | 275,000.00 | 75.00% | 206,250.00 | 10,312.50 | 195,937.50 | 182,875.00 | 13,062.50 |
| Roofing | 1460 | 434,000.00 | 70.00% | 303,800.00 | 15,190.00 | 288,610.00 | 247,380.00 | 41,230.00 |
| Heat/Cooling Systems | 1460 | 20,000.00 | 80.00% | 16,000.00 | 800.00 | 15,200.00 | 15,200.00 | 0.00 |
| Exterior Structural Work | 1460 | 25,000.00 | 66.80% | 16,700.00 | 835.00 | 15,865.00 | 15,859.72 | 5.28 |
| a. Conc Spall Repair | 1460 | 25,000.00 | 62.00% | 15,500.00 | 775.00 | 14,725.00 | 1,570.14 | 13,154.86 |
| Waterproofing/Coating | 1460 | 237,000.00 | 100.00% | 237,000.00 | 11,850.00 | 225,150.00 | 225,150.00 | 0.00 |
| Walkways/Lanais | 1460 | 75,000.00 | 70.00% | 52,500.00 | 2,625.00 | 49,875.00 | 17,812.50 | 32,062.50 |
| Exterior Stairs | 1460 | 80,000.00 | 50.00% | 40,000.00 | 2,000.00 | 38,000.00 | 28,500.00 | 9,500.00 |
| a. Conc Crack Repair | 1460 | 20,000.00 | 0.70% | 140.00 | 7.00 | 133.00 | 128.25 | 4.75 |
| Electrical Systems | 1460 | 367,450.00 | 55.00% | 202,097.50 | 10,104.88 | 191,992.62 | 190,000.00 | 1,992.62 |
| a. Install Metal Raceways | 1460 | 18,750.00 | 40.00% | 7,500.00 | 375.00 | 7,125.00 | 0.00 | 7,125.00 |
| b. Install Copper Wires | 1460 | 13,800.00 | 40.00% | 5,520.00 | 276.00 | 5,244.00 | 0.00 | 5,244.00 |
| Resident Protection | 1460 | 24,000.00 | 100.00% | 24,000.00 | 1,200.00 | 22,800.00 | 22,800.00 | 0.00 |
| Mechanical System | 1460 | 730,000.00 | 85.00% | 620,500.00 | 31,025.00 | 589,475.00 | 554,800.00 | 34,675.00 |
| Termite Control | 1460 | 3,000.00 | 100.00% | 3,000.00 | 150.00 | 2,850.00 | 2,850.00 | 0.00 |
| Doors | 1460 | 57,000.00 | 40.00% | 22,800.00 | 1,140.00 | 21,660.00 | 21,660.00 | 0.00 |
| Windows | 1460 | 98,000.00 | 80.00% | 78,400.00 | 3,920.00 | 74,480.00 | 46,550.00 | 27,930.00 |
| Accessibility Work | 1460 | 25,000.00 | 60.00% | 15,000.00 | 750.00 | 14,250.00 | 9,500.00 | 4,750.00 |
| Building Miscellaneous | 1460 | 315,868.00 | 50.00% | 157,934.00 | 7,896.70 | 150,037.30 | 150,037.30 | 0.00 |
| Kitchen Work | 1460 | 525,000.00 | 35.00% | 183,750.00 | 9,187.50 | 174,562.50 | 124,687.50 | 49,875.00 |
| Interior Stairs | 1460 | 5,000.00 | 10.00% | 500.00 | 25.00 | 475.00 | 0.00 | 475.00 |
| Flooring | 1460 | 100,000.00 | 44.00% | 44,000.00 | 2,200.00 | 41,800.00 | 41,800.00 | 0.00 |
| Bathroom Work | 1460 | 295,625.00 | 35.00% | 103,468.75 | 5,173.44 | 98,295.31 | 98,295.31 | 0.00 |
| a. Patch opening to tub drain | 1460 | 4,375.00 | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hazardous Material Abatement | 1460 | 100,000.00 | 100.00% | 100,000.00 | 5,000.00 | 95,000.00 | 95,000.00 | 0.00 |
| Appliances | 1465 | 2,000.00 | 20.00% | 400.00 | 20.00 | 380.00 | 0.00 | 380.00 |
| SUBTOTAL | | 5,326,868.00 | 57.48% | 3,061,760.25 | 153,088.01 | 2,908,672.24 | 2,506,893.22 | 401,779.01 |
| Change Orders | | | | | | | | |
| | , | | (F: | (F) | | | | |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) | (I) | (J) |
| Description of Work | Account Number | Contract Amount | Percent Complete | Amount Earned to Date | Retention | Net Amount Earned | Previous Payments Received | Amount Due |
| CO #1-Electrical Distr. Sys. | 1450 | 5,000.00 | 20.00% | 1,000.00 | 50.00 | 950.00 | 0.00 | 950.00 |
| CO #1-Electrical Systems | 1460 | 15,000.00 | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CO #2-Kitchen Work | 1460 | 3,000.00 | 75.00% | 2,250.00 | 112.50 | 2,137.50 | 0.00 | 2,137.50 |
| CO # | | 0.00 | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| CO# | | 0.00 | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|-----|-------|--------------|--------|--------------|------------|--------------|--------------|------------|
| CO# | | 0.00 | 0.00% | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | TOTAL | 23,000.00 | 14.13% | 3,250.00 | 162.50 | 3,087.50 | 0.00 | 3,087.50 |
| | 1450 | 1,731,000.00 | 46.92% | 812,250.00 | 40,612.50 | 771,637.50 | 597,312.50 | 174,325.00 |
| | 1460 | 3,616,868.00 | 62.27% | 2,252,360.25 | 112,618.02 | 2,139,742.23 | 1,909,580.72 | 230,161.51 |
| | 1465 | 2,000.00 | 20.00% | 400.00 | 20.00 | 380.00 | 0.00 | 380.00 |
| | TOTAL | 5,349,868.00 | 57.29% | 3,065,010.25 | 153,250.52 | 2,911,759.73 | 2,506,893.22 | 404,866.51 |

PRIME CONTRACTOR CERTIFICATION OF SUBCONTRACTOR ELIGIBILITY

| Name of Project: | |
|--|--|
| Location: | |
| Contract Number | DHHL IFB Number |
| General and Subcontractors" form a | actors and or lower-tier subcontractors listed in the "List of are all eligible for award of the above captioned project and I eviewing the current GSA List of Parties Excluded from rograms. |
| "List of General and Subcontractors for any subcontractor and or lower-t certification. I further understand the found ineligible after award of the | subcontractors and or lower-tier subcontractors listed in the "form. I understand that a separate certification is required ier subcontractor awarded contracts subsequent to the initial at should any subcontractor and or lower-tier subcontractor contract, the Hawaii Public Housing Authority (HPHA) may and may refer the matter to the Department of Labor for |
| Date | (Type Name of Prime Contractor) |
| Ву: | (Signature of Authorized Officer/Owner/ Partner) |
| | Name and Title of person signing) (Type |

CONTRACTOR'S CERTIFICATION OF PAYMENT

I hereby certify, to the best of my knowledge and belief, that:

- (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements;
- (3) Any money paid to the prime contractor from previous payments have been dispersed to subcontractors and suppliers within ten (10) days after receipt of the money, in accordance with the terms of the subcontract agreements;
- (4) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

[103-10.5: H.R.S. / §3-125-23 HAR - Prompt Payment of the General Conditions, 8.5]

** NOTE: This form shall be submitted with each and every payment request.

| Company Name | |
|----------------------|--------------------|
| Print Name and Title | |
| Signature | |
| Date | Payment Request No |
| DHHL IFB # | Contract # |
| Job Title: | |

VALUE ENGINEERING CHANGE PROPOSAL (10/14/97)

| | | VECP NO: | DATE: | | | | | | |
|----|---|--------------------------|----------------------|--|--|--|--|--|--|
| _ | TATE" OR "NAME OF COUNTY"] JECT TITLE: | PROJECT NO: CONTRACTOR: | CONTRACT NO: | | | | | | |
| A. | CHANGES: The following changes are tall contract stipulations a drawings, special provision | ind covenants (S | | | | | | | |
| В. | CONTRACTOR'S QUOTATION: The changes included under Part A above will be performed at a contract price decrease of \$ | | | | | | | | |
| | this proposal by the ["St continue all work in accordance. | ate" or "Name o | , we will f County"] | | | | | | |
| | NAME | TITLE | | | | | | | |
| | SIGNATURE | DATE | | | | | | | |
| C. | STATEMENT OF FUNDS: | - | _ | | | | | | |
| | Original Contract Price Amended Contract Price New Contingency Balance Rem | | \$ \$ | | | | | | |

| D. | SUMMARY DESCRIPTION AND CHANGES: | POTENTIAL | IMPACTS O | F THE PROPC | SED |
|----|--|-----------|----------------------|-------------|-------|
| | | | | | |
| | MIMD DAMPINGTON. | | | | |
| Ε. | TIME EXTENSION: | | | | |
| | | | | | |
| F. | VALIDATION OF CHANGE ORD Recommended for approval | | REJECTIO | N OF CHANGE | ORDER |
| | CONSTRUCTION ENGINEER Approved: | _ | CONSTRUC Disappro | TION ENGINE | ER |
| | PROCUREMENT OFFICER | _ | PROCUREM | ENT OFFICER | |
| | DISTRIBUTION: | | | | |
| | DATE | | | DATE | - |

Reasons for rejection:

VALUE ENGINEERING CHANGE PROPOSAL (Contractor-Required Information)

| Rece | eived by: | ["State" or "Name of County"] | |
|---|------------------|---|---|
| _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | - | 0131140410 | 2400 |
| Name | 2 | Signature | Date |
| Cont | ractor's | Representative: | |
| | | | |
| | | | |
| REMA | ARKS: | | |
| mark | ed on the | drawings and specifications.) | |
| | | or shop drawings and specifications, including or shop drawings or literature with all chan | |
| | | R REVISIONS TO DRAWINGS AND SPECIFICATIONS: ntract drawings and specifications, including | (Attach |
| Q1733 | | ary materials? | / 7 ± 1 · · · · · · · · · · · · · · · · · · |
| 7. | Does thi | s proposed change involve use of | |
| | | nt's right to use any data described proposed change? | |
| 6. | Does the | Contractor intend to restrict the | |
| | | riginal contract? | |
| 5. | | contractor involved in this proposed change | |
| 4. | | s proposed change increase the maintenance tion costs of original or proposed items? | |
| 1 | | of contract-related items? | |
| · | | nt, such as government-furnished property | |
| 3. | agency? Does thi | s change affect other costs to the | |
| | _ | ly to this office or any other government | |
| 2. | Has the | Contractor submitted this proposed change | |
| | _ | Clauses? | |
| 1. | | s proposed change affect the time of on of the contract as stated in the | |
| _ | | | YES NO |
| | | stions is "Yes", explain in "REMARKS" below. |) . |
| INFO | RMATION R | EQUIRED OF THE CONTRACTOR: (If answer to an | v of the |
| госа | tion: | | |
| | ject: | Contract No. | |
| To: | | VECP No. | |
| Fron | L • | | |

VALUE ENGINEERING CHANGE PROPOSAL (Contractor Summary Submittal)

| From: | VE | ate: |
|---|--|--------------------------------------|
| Project: Location: | Cc | ontract No |
| disadvanta clauses and proposals) | CHANGE (Description - Compare advant ges, include all information required d section 3-132-4 for value engineeri sketch, when applicable) After: | d by the contract |
| with the cl | COST SUMMARY: (Costs shall be estimated angle provisions contained in the Geret. Attach Cost Estimating Form, for oplicable.) | neral Clauses of c detailed estimate |
| B. Propose C. Gross D. Contro E. Total F. State G. Diffe | Data Qty. Unit Sed \$ Savings (A-B) \$ actor's Implementing \$ Cost \$ Estimated Decrease (C-D) \$'s Implementing Cost \$ cence (E-F) \$ ifference (E-F) \$ | \$ |
| | 2 tion in Contract Price (E-H) | |
| BE ISSUED (COST REDUC | ICH A CHANGE ORDER MUST SO AS TO OBTAIN MAXIMUM FION | Date |
| Name Received by | Signature 7: ["State" or "Name of County"] | Date |
| Name | Signature | Date |



STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS 91-5420 Kapolei Parkway, Kapolei, HI. 96707

Sample Forms

FOR

FURNISHING LABOR AND MATERIALS FOR

Kanakaloloa Cemetery Improvements

Hoolehua, Molokai, Hawaii

TAX MAP KEY: (2) 5-2-017:003

IFB NO.: IFB-16-HHL-011

May 2015





CONTRACT FOR GOODS OR SERVICES BASED UPON COMPETITIVE SEALED BIDS

| This Contract, executed on | the respective dates indicated below, is effective as of |
|---|---|
| , , between | Department of Hawaiian Home Lands |
| | (Insert name of state department, agency, board or commission) |
| State of Hawaii ("STATE"), by its | Chairman, Hawaiian Homes Commission (Insert title of person signing for State) |
| (haraaftar also referred to as the HEAD OF T | (Insert title of person signing for State) THE PURCHASING AGENCY or designee ("HOPA")), |
| whose address is 91-5420 Kapolei Parkway | |
| and | |
| ("CONTRACTOR"), a | |
| | poration, partnership, joint venture, sole proprietorship. or other legal form of the Contractor) |
| | , whose business address and federal |
| and state taxpayer identification numbers are a | _ |
| | |
| <u>]</u> | RECITALS |
| A. The STATE desires to | o retain and engage the CONTRACTOR to provide the |
| | ontract and its attachments, and the CONTRACTOR is |
| agreeable to providing said goods or services, | |
| | an invitation for competitive sealed bids, and has received |
| and reviewed bids submitted in response to the | * |
| * | s and the selection of the CONTRACTOR were made in |
| | evised Statutes ("HRS"), Hawaii Administrative Rules, Title |
| | vices, Subtitle 11 ("HAR"), Chapter 122, Subchapter 5, and |
| applicable procedures established by the appro | |
| | has been identified as the lowest responsible and |
| responsive bidder whose bid meets the require | * |
| | HHCA of 1920, as amended , the STATE |
| E. Tursdant to | (Legal authority to enter into this Contract) |
| is authorized to enter into this Contract. | |
| F. Money is available to fu | and this Contract pursuant to: |
| (1) Hawaiian Homes Trust Fund | |
| (Identify state sources) | |
| or (2) (Identify federal sources) | |
| or both, in the following amounts: State \$ | |
| Federal \$ | |
| | sideration of the promises contained in this Contract, the |
| STATE and the CONTRACTOR agree as follows: | |
| · · | CONTRACTOR shall, in a proper and satisfactory manner |
| as determined by the STATE, provide all th | |
| • | ("IFB") * and the CONTRACTOR'S accepted bid ("Bid"), |
| | to this Contract, are made a part of this Contract. |
| | ONTRACTOR shall be compensated for goods supplied |

* and summarized in Attachment S-1

or services performed, or both, under this Contract in a total amount not to exceed

| TBD | DOLLARS |
|---|--|
| (\$), including approved costs | s incurred and taxes, at the time and in the manner set |
| forth in the IFB and CONTRACTOR'S Bid. Ar | • |
| · | The services or goods required of the CONTRACTOR |
| • | pleted in accordance with the Time of Performance set |
| forth in Attachment-S3, which is made a part of 4. Bonds. The CONTRAC | CTOR \boxtimes is required to provide or \square is not required to |
| | bond, \boxtimes a performance and payment bond each in the |
| amount of | DOLLARS (\$). |
| 5. Standards of Conduct D | eclaration. The Standards of Conduct Declaration of the |
| CONTRACTOR is attached to and made a part | |
| · · · · · · · · · · · · · · · · · · · | ons. The General Conditions, Construction General |
| | attached to and made a part of this Contract. In the event a, Construction General Conditions, and the Special |
| | ol. In the event of a conflict among the documents, the |
| | his Contract, including all attachments and addenda; (2) |
| the IFB, including all attachments and addenda; | and (3) the CONTRACTOR'S Bid. |
| 7. <u>Liquidated Damages.</u> | Liquidated damages shall be assessed in the amount of |
| Two Hundred and 00/100 | DOLLARS |
| | ith the terms of paragraph 9 of the General Conditions. |
| | n notice required to be given by a party to this Contract |
| * | United States first class mail, postage prepaid. Notice to |
| | address indicated in the Contract. Notice to the ACTOR'S address indicated in the Contract. A notice |
| | (3) days after mailing or at the time of actual receipt, |
| | responsible for notifying the STATE in writing of any |
| change of address. | |
| - | e parties execute this Contract by their signatures, on the |
| dates below, to be effective as of the date first a | bove written. |
| | STATE |
| | |
| | (Signature) |
| | Jobie M. K. Masagatani |
| | (<i>Print Name</i>) Chairman, Hawaiian Homes Commission |
| | (Print Title) |
| | (0.4) |
| | (Date) |
| CODDODATE CEAL | CONTRACTOR |
| CORPORATE SEAL | |
| (If available) | (Name of Contractor) |
| | |
| | (Signature) |
| | (Print Name) |
| | (Print Title) |
| APPROVED AS TO FORM: | (Date) |
| | |

AG-003 Rev. 06/22/2009 2

Deputy Attorney General

^{*}Evidence of authority of the CONTRACTOR'S representative to sign this Contract for the CONTRACTOR must be attached.



CONTRACTOR'S ACKNOWLEDGMENT

| STATE OF |) |
|--|--|
| |) SS. |
| COUNTY OF |) |
| | |
| On this | day of, before me appeared |
| | and , to me |
| known, to be the person(s) described in and | , who, being by me duly sworn, did say that he/she/they is/are |
| | and of |
| | , the |
| | nstrument, and that he/she/they is/are authorized to sign said |
| | CTOR, and acknowledges that he/she/they executed said |
| instrument as the free act and deed of the C | ONTRACTOR. |
| | |
| | |
| | |
| (Natary Charge on Coal) | (Signature) |
| (Notary Stamp or Seal) | |
| | (Print Name) |
| | Notary Public, State of |
| | My commission expires: |
| | |
| | |
| Doc. Date: # Pa | ages: 2 |
| Notary Name: | Circuit |
| Doc. Description: Contract for Goods or Se | ervices Based Upon |
| Competitive Sealed Bids | (Notary Stamp or Seal) |
| | |
| | |
| | |
| Notary Signature | Date |
| NOTARY CERTIFICATION | |

1

AG-009 Rev 7/25/08



CONTRACTOR'S STANDARDS OF CONDUCT DECLARATION

For the purposes of this declaration:

"Agency" means and includes the State, the legislature and its committees, all executive departments, boards, commissions, committees, bureaus, offices; and all independent commissions and other establishments of the state government but excluding the courts.

"Controlling interest" means an interest in a business or other undertaking which is sufficient in fact to control, whether the interest is greater or less than fifty per cent (50%).

"Employee" means any nominated, appointed, or elected officer or employee of the State, including members of boards, commissions, and committees, and employees under contract to the State or of the constitutional convention, but excluding legislators, delegates to the constitutional convention, justices, and judges. (Section 84-3, HRS).

| | constitutional convention, justices, and | judges. (Section 84-3, HRS). | | | | | | |
|----------------------------|---|---|--|--|--|--|--|--|
| On beh | nalf of | , CONTRACTOR, the | | | | | | |
| undersi | igned does declare as follows: | | | | | | | |
| 1. | CONTRACTOR is is not a leg or an employee has a controlling interes | tislator or an employee or a business in which a legislator st. (Section 84-15(a), HRS). | | | | | | |
| 2. | who has been an employee of the agen | nted or assisted personally in the matter by an individual cy awarding this Contract within the preceding two years byed in the matter with which the Contract is directly | | | | | | |
| 3. | other compensation to obtain this Cont or employee for a fee or other compens | d or represented by a legislator or employee for a fee or ract and will not be assisted or represented by a legislator sation in the performance of this Contract, if the legislator development or award of the Contract. (Section 84-14 (d), | | | | | | |
| 4. | CONTRACTOR has not been represented on matters related to this Contract, for a fee or other consideration by an individual who, within the past twelve (12) months, has been an agency employee, or in the case of the Legislature, a legislator, and participated while an employee or legislator on matters related to this Contract. (Sections 84-18(b) and (c), HRS). | | | | | | | |
| of the Revise source | STATE if this Contract was entered id Statutes, commonly referred to as the of the declarations above. Additionally | to which this document is attached is voidable on behalf nto in violation of any provision of chapter 84, Hawaii e Code of Ethics, including the provisions which are the y, any fee, compensation, gift, or profit received by any Ethics may be recovered by the STATE. | | | | | | |
| | | CONTRACTOR | | | | | | |
| checked | der to Agency: If the "is" block is and if the Contract involves goods or | Ву | | | | | | |
| | of a value in excess of \$10,000, the must be awarded by competitive | (Signature) Print Name | | | | | | |
| sealed bi | idding under section 103D-302, HRS, upetitive sealed proposal under section | Print Title | | | | | | |
| 103D-30 not awar |)3, HRS. Otherwise, the Agency may d the Contract unless it posts a notice | Name of Contractor | | | | | | |
| at ita int | ent to award it and files a conv of the | | | | | | | |

Date

notice with the State Ethics Commission.

(Section 84-15(a), HRS).



TIME OF PERFORMANCE

Project: Kanakaloloa Cemetery Improvements

Location: Hoolehua, Molokai, County of Maui, State of Hawaii

IFB No. IFB-16-HHL-011

Contractor: TBD

1. The Time of Performance for this Contract shall be 730 Consecutive Calendar Days from the effective date specified in the Notice to Proceed, unless extended by delays excused by the STATE as documented in writing. The Notice to Proceed shall be issued by the STATE separately to the CONTRACTOR.

- 2. This Contract shall expire on the date on which the later of the following occurs:
 - (a) the State makes final payment to the CONTRACTOR in accordance with (1) paragraph 17(d) of the General Conditions (AG-008 103D General Conditions) and (2) no dispute between the parties hereto as to the Work or other obligations of the CONTRACTOR hereunder is outstanding, or
 - (b) the STATE issues a Final Acceptance letter to the CONTRACTOR.
- 3. The Contract expiration date is for administrative purposes only and not to be confused with the Time of Performance which refers to the time in which the CONTRACTOR is required to complete the work, or with any continuing obligations on the part of the CONTRACTOR.

CERTIFICATE OF EXEMPTION FROM CIVIL SERVICE

1. By Heads of Departments Delegated by the Director of the Department of Human Resources Development ("DHRD").*

Pursuant to a delegation of the authority by the Director of DHRD, I certify that the services to be provided under this Contract, and the person(s) providing the services under this Contract are exempt from the civil service, pursuant to § 76-16, Hawaii Revised Statutes (HRS).

| from the civil service, pursuant to § 76-16, Haw | vaii Revised Statutes (HRS). |
|---|--|
| (Signature) | (Date) |
| Jobie M. K. Masagatani | (Bate) |
| (Print Name) | |
| Chairman, Hawaiian Homes Commission | |
| (Print Title) | |
| of DHRD expressly has delegated authority to certify § § 76-16, HRS, upon which an exemption is based sh § 76-16(b)(15), the contract must meet the following cond (1) It involves the delivery of completed work or prod (2) There is no employee-employer relationship; and (3) The authorized funding for the service is from other NOTE: Not all attached agencies have received a delecheck with the Director of DHRD prior to certifying an expression of the service is formation. | luct by or during a specific time; |
| 2. By the Director of DHRD, State of H I certify that the services to be provid services under this Contract are exempt from the (Signature) | led under this Contract, and the person(s) providing the |
| (Print Name) | |
| | |
| (Print Title, if designee of the Director of DHRD) | |

1

AG-014 Rev 6/26/2006

CORPORATE RESOLUTION (Name of Corporation - Use Letterhead)

|] | I, | | | , Sec | retary | of _ | | | | | | | | |
|-------------------|----------------|----------|-----------|---------|----------|-------|--------|-----------|--------|---------|---------------|-------|------------|-------|
| Corpora | ation, a | | | | _ corp | orati | ion, c | lo hereb | у се | rtify | that the fol | llow | ing is a f | full, |
| true and | l correct c | opy of | a resolu | ition (| luly ac | lopte | ed by | the Bo | ard o | f Dir | ectors of s | aid (| Corporati | ion, |
| at its | meeting | duly | | | | | | | | | Corporat | | | |
| | | | | | | | lress) | | | | | | | , |
| on the | (| day of | | | | | | , 20 | , & | ıt wh | ich a quor | um | was pres | sent |
| and acti | ng throug | hout; a | and that | said r | esoluti | on h | as no | ot been | modi | fied, | amended o | or re | scinded | and |
| continue | es in full f | orce a | nd effect | : | | | | | | | | | | |
| | "R | ESOLV | ED that | any | individ | ual | at the | time h | oldir | g the | position o | of | | |
| | Pre | esident | or Vice I | Preside | ent, be, | and | each | of them | hereb | y is, | authorized t | 0 | | |
| | exe | ecute of | n behalf | of the | Corpor | atior | any | bid, proj | osal | or co | ntract for th | ne | | |
| | sal | e or re | ntal of t | he pro | ducts | of th | e Co | rporatio | n or | for se | ervices to b | e | | |
| | pe | rformed | by the | Corpo | ration a | and t | o exe | cute any | y bon | d req | uired by an | ıy | | |
| | suc | ch bid j | proposal | or cor | ntract v | ith t | he U | nited Sta | ates (| Gover | nment or th | ie | | |
| | Sta | ate of F | Iawaii or | the C | City and | d Co | unty | of Hono | lulu, | or ar | y County o | or | | |
| | Mı | unicipal | Govern | ment o | of said | State | , or a | ny depai | tmen | t or si | ubdivision o | of | | |
| | an | y of the | m." | | | | | | | | | | | |
| | IN WITN | ESS W | HEREC | F, I l | nave h | ereu | nto se | et my h | and a | ind at | ffixed the | corpo | orate sea | l of |
| said | | | | | | | | Cor | porat | ion 1 | this | | day | of |
| | | | , | 20 | · | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | Secr | etary | | | | | _ | |
| (Names Preside | and Addı nt | esses (| of:) | | | | | | | | | | | |

CR-1

Vice President Secretary

EXHIBIT A

SURETY [BID] [PROPOSAL] BOND (11/17/98)

| Bond No |
|---|
| KNOW TO ALL BY THESE PRESENTS: |
| That we |
| That we, |
| as Offeror, hereinafter called Principal, and, (Name of Bonding Company) |
| as Surety, hereinafter called Surety, a corporation authorized to transact business as a Surety |
| in the State of Hawaii, are held and firmly bound unto, (State/County Entity) as Owner, hereinafter called Owner, in the penal sum of |
| (Required Amount of Bid Security) |
| Dollars (\$), lawful money of the United States of America, for the payment of which sum well and truly to be made, the said Principal and the said Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents. |
| WHEREAS: |
| The Principal has submitted an offer for |
| |
| (Project by Number and Brief Description) |
| NOW, THEREFORE: |
| The condition of this obligation is such that if the Owner shall reject said offer, or in the alternate, accept the offer of the Principal and the Principal shall enter into a Contract with the Owner in accordance with the terms of such offer, and give such bond or bonds as may be specified in the solicitation or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof as specified in the solicitation then this obligation shall be null and void, otherwise to remain in full force and effect. |
| Signed this day of, |

EXHIBIT A -1-

| (Seal) | |
|--------|-----------------------------|
| , , | Name of Principal (Offeror) |
| | |
| | |
| | Signature |
| | |
| | Title |
| | |
| | |
| (Seal) | Name of Surety |
| | Name of Surety |
| | |
| | Signature |
| | |
| | Title |
| | TILLO |

-2- EXHIBIT A

EXHIBIT B

PERFORMANCE BOND (SURETY)

(6/21/07)

KNOW TO ALL BY THESE PRESENTS:

| That |
|---|
| That |
| as Contractor, hereinafter called Principal, and |
| |
| (Name and Street Address of Bonding Company) |
| as Surety, hereinafter called Surety, a corporation(s) authorized to transact business as a |
| surety in the State of Hawaii, are held and firmly bound unto the, (State/County Entity) |
| its successors and assigns, hereinafter called Obligee, in the amount of |
| DOLLARS (\$), to which payment Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents. |
| WHEREAS, the above-bound Principal has signed a Contract with Obligee on, for the following project: |
| |
| |
| |
| |
| hereinafter called Contract, which Contract is incorporated herein by reference and made a pa hereof. |

NOW THEREFORE, the condition of this obligation is such that:

If the Principal shall promptly and faithfully perform, and fully complete the Contract in strict accordance with the terms of the Contract as said Contract may be modified or amended from time to time; then this obligation shall be void; otherwise to remain in full force and effect.

-1- EXHIBIT B

Surety to this Bond hereby stipulates and agrees that no changes, extensions of time, alterations, or additions to the terms of the Contract, including the work to be performed thereunder, and the specifications or drawings accompanying same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, extensions of time, alterations, or additions, and agrees that they shall become part of the Contract.

In the event of Default by the Principal, of the obligations under the Contract, then after written Notice of Default from the Obligee to the Surety and the Principal and subject to the limitation of the penal sum of this bond, Surety shall remedy the Default, or take over the work to be performed under the Contract and complete such work, or pay moneys to the Obligee in satisfaction of the surety's performance obligation on this bond.

| Signed this | day of | · |
|-------------|--------|--------------------------------|
| | (Seal) | Name of Principal (Contractor) |
| | | * Signature |
| | | Title |
| | (Seal) | Name of Surety |
| | | * Signature |
| | | Title |

-2- EXHIBIT B

^{*}ALL SIGNATURES MUST BE ACKNOWLEDGED BY A NOTARY PUBLIC

EXHIBIT C

PERFORMANCE BOND

(11/17/98)

KNOW TO ALL BY THESE PRESENTS:

| That | t we, | | , |
|----------------------------|---|---|------------------------|
| | (Full Legal Name a | and Street Address of Contractor) | |
| as Contract | or, hereinafter called Contractor, is | held and firmly bound unto the | |
| (State/Co | , its successors | and assigns, as Obligee, hereinaf | ter called |
| | the amount of | . | |
| | (Dollar Amo | unt of Contract) | |
| payment of heirs, execu | (\$), lawful mor which to the said Obligee, well and utors, administrators, successors ar videnced by: | truly to be made, Contractor binds | s itself, its |
| | Legal tender; | | |
| | Share Certificate unconditionally | assigned to or made payable at s | sight to |
| | Description | | |
| | • | , dated | • |
| | drawn on a bank, savings institution or cre Insurance Corporation or the Na | edit union insured by the Federal Dational Credit Union Administration, | eposit , payable at |
| | by | , dated | , issued |
| | Insurance Corporation or the Na | edit union insured by the Federal Dational Credit Union Administration, | , payable at |
| | | | |

-1- EXHIBIT C

| | by | | | | |
|---------------------------|---|---|---|--|--|
| | | | | | |
| | a bank, savings institution or cre | | | | |
| | Insurance Corporation or the National Credit Union Administration, payab sight or unconditionally assigned to | | | | |
| | | | ; | | |
| | Treasurer's Check No. | | | | |
| | by | | , | | |
| | drawn on a bank, savings institution or cre | adit union incured by the Ead | oral Doposit | | |
| | Insurance Corporation or the Nasight or unconditionally assigne | ational Credit Union Administi | ration, payable at | | |
| | | | ; | | |
| | Official Check Noby | | | | |
| | drawn on | | , | | |
| | a bank, savings institution or cre Insurance Corporation or the Na sight or unconditionally assigne | ational Credit Union Administ | ration, payable at | | |
| | | | ; | | |
| | Certified Check No | , dated _ | , | | |
| | accepted by a bank, savings ins Deposit Insurance Corporation payable at sight or unconditional | stitution or credit union insure or the National Credit Union A | d by the Federal | | |
| | | • | | | |
| | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| WHEREAS: | | | | | |
| | Contractor has by written agreeme Obligee for the following Project: | | entered into a | | |
| | | | | | |
| | | | | | |
| hereinafter ca hereof. | alled Contract, which Contract is i | ncorporated herein by referer | nce and made a part | | |
| | | | | | |

NOW, THEREFORE,

-2- EXHIBIT C

The condition of this obligation is such that, if Contractor shall promptly and faithfully perform the Contract in accordance with, in all respects, the stipulations, agreements, covenants and conditions of the Contract as it now exists or may be modified according to its terms, and shall deliver the Project to the Obligee, or to its successors or assigns, fully completed as in the Contract specified and free from all liens and claims and without further cost, expense or charge to the Obligee, its officers, agents, successors or assigns, free and harmless from all suits or actions of every nature and kind which may be brought for or on account of any injury or damage, direct or indirect, arising or growing out of the doing of said work or the repair or maintenance thereof or the manner of doing the same or the neglect of the Contractor or its agents or servants or the improper performance of the Contract by the Contractor or its agents or servants or from any other cause, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

AND IT IS HEREBY STIPULATED AND AGREED that suit on this bond may be brought before a court of competent jurisdiction without a jury, and that the sum or sums specified in the said Contract as liquidated damages, if any, shall be forfeited to the Obligee, its successors or assigns, in the event of a breach of any, or all, or any part of, the covenants, agreements, conditions, or stipulations contained in the Contract or in this bond in accordance with the terms thereof.

The amount of this bond may be reduced by and to the extent of any payment or

| payme | ents made in good faith | hereunder. | • | |
|-------|-------------------------|------------|--|--|
| | Signed this | _day of | ······································ | |
| | | (Seal) | Name of Contractor | |
| | | , | * | |
| | | | Signature | |
| | | | Title | |

-3- EXHIBIT C

^{*}ALL SIGNATURES MUST BE ACKNOWLEDGED BY A NOTARY PUBLIC

EXHIBIT D

LABOR AND MATERIAL PAYMENT BOND (SURETY)

(6/21/07)

KNOW TO ALL BY THESE PRESENTS:

| That, |
|--|
| (Full Legal Name and Street Address of Contractor) |
| as Contractor, hereinafter called Principal, and |
| |
| (Name and Street Address of Bonding Company) as Surety, hereinafter called Surety, a corporation(s) authorized to transact business as a surety in the State of Hawaii, are held and firmly bound unto the, (State/County Entity) its successors and assigns, hereinafter called Obligee, in the amount of |
| its successors and assigns, herematter called Obligee, in the amount of |
| Dollars (\$), to which payment Principal and Surety bind themselves their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents. |
| WHEREAS, the above-bound Principal has signed Contract with the Obligee on for the following project: |
| |
| |
| hereinafter called Contract, which Contract is incorporated herein by reference and made a part hereof. |
| NOW THEREFORE , the condition of this obligation is such that if the Principal shall promptly make payment to any Claimant, as hereinafter defined, for all labor and materials supplied to the Principal for use in the performance of the Contract, then this obligation shall be void; otherwise to remain in full force and effect. |
| 1. Surety to this Bond hereby stipulates and agrees that no changes, extensions of time, alterations, or additions to the terms of the Contract, including the work to be performed thereunder, and the specifications or drawings accompanying same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, extensions of time, alterations, or additions, and agrees that they shall become part of the Contract. |

2. A "Claimant" shall be defined herein as any person who has furnished labor or materials to the Principal for the work provided in the Contract.

-1- EXHIBIT D

Every Claimant who has not been paid amounts due for labor and materials furnished for work provided in the Contract may institute an action against the Principal and its Surety on this bond at the time and in the manner prescribed in Section 103D-324, Hawaii Revised Statutes, and have the rights and claims adjudicated in the action, and judgment rendered thereon; subject to the Obligee's priority on this bond. If the full amount of the liability of the Surety on this bond is insufficient to pay the full amount of the claims, then after paying the full amount due the Obligee, the remainder shall be distributed pro rata among the claimants.

| Signed this | _ day of __ | | · |
|-------------|-----------------------|--------|--------------------------------|
| | | (Seal) | Name of Principal (Contractor) |
| | | , | * Signature Title |
| | | (Seal) | Name of Surety |
| | | | * Signature |
| | | | Title |

-2-

EXHIBIT D

^{*}ALL SIGNATURES MUST BE ACKNOWLEDGED BY A NOTARY PUBLIC

EXHIBIT E

LABOR AND MATERIAL PAYMENT BOND

(11/17/98)

KNOW TO ALL BY THESE PRESENTS:

| That w | /e, | | , |
|-----------------|--|-----------------------------|--|
| | /e,(Full Legal Name and Street | t Address of Contractor) | |
| | , hereinafter called Contractor, is hel | |) |
| (State/Coun | ty Entity), its successors | and assigns, as Obligee, h | ereinafter called |
| Obligee, in the | e amount of | | |
| | (Dollar Amount | of Contract) | |
| payment of wl |), lawful mon hich to the said Obligee, well and tru ors, administrators, successors and a denced by: | ly to be made, Contractor b | oinds itself, its |
| | Legal tender; | | |
| | Share Certificate unconditionally as | . , | · · |
| | Description | | |
| | Certificate of Deposit, No | , dated | , issued by |
| | drawn on a bank, savings institution or credit Insurance Corporation or the Nation sight or unconditionally assigned to | nal Credit Union Administra | tion, payable at |
| | Cashier's Check No | , dated | , issued by |
| | drawn ona bank, savings institution or credit Insurance Corporation or the Nation sight or unconditionally assigned to | nal Credit Union Administra | tion, payable at |
| | Teller's Check No. | , dated | , issued by |
| | drawn on | | ······································ |

-1- EXHIBIT E

| | a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to | | | | | |
|---------------------------|---|--|---------------------------------|--|--|--|
| | ; | | | | | |
| | Treasurer's Check No | , dated | , issued by | | | |
| | drawn on a bank, savings institution or c Insurance Corporation or the N sight or unconditionally assigne | redit union insured by the Fed lational Credit Union Administ | ration, payable at | | | |
| | Official Check No | | | | | |
| | drawn ona bank, savings institution or c Insurance Corporation or the N sight or unconditionally assigne | lational Credit Union Administ | eral Deposit ration, payable at | | | |
| | Certified Check No by a bank, savings institution of Insurance Corporation or the Nationally assigned | lational Credit Union Administ | ration, payable at | | | |
| WHEREAS: | | | | | | |
| contract with | Contractor has by written agreem Obligee for the following Project | : | | | | |
| | | | | | | |
| hereinafter ca hereof. | alled Contract, which Contract is | incorporated herein by referer | nce and made a part | | | |

NOW, THEREFORE,

The condition of this obligation is such that, if Contractor shall promptly and faithfully perform the Contract in accordance with, in all respects, the stipulations, agreements, covenants and conditions of the Contract as it now exists or may be modified according to its terms, free from all liens and claims and without further cost, expense or charge to the Obligee, its officers, agents, successors or assigns, free and harmless from all suits or actions of every

-2- EXHIBIT E

nature and kind which may be brought for or on account of any injury or damage, direct or indirect, arising or growing out of the doing of said work or the repair or maintenance thereof or the manner of doing the same or the neglect of the Contractor or its agents or servants or the improper performance of the Contract by the Contractor or its agents or servants or from any other cause, and shall promptly pay all persons supplying labor and materials for the performance of the Contract, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

AND IT IS HEREBY STIPULATED AND AGREED that suit on this bond may be brought before a court of competent jurisdiction without a jury, and that the sum or sums specified in the said Contract as liquidated damages, if any, shall be forfeited to the Obligee, its successors or assigns, in the event of a breach of any, or all, or any part of, the covenants, agreements, conditions, or stipulations contained in the Contract or in this bond in accordance with the terms thereof.

AND IT IS HEREBY STIPULATED AND AGREED that this bond shall inure to the benefit of any and all persons entitled to file claims for labor performed or materials furnished in said work so as to give any and all such persons a right of action as contemplated by Sections 103D-324(d) and 103D-324(e), Hawaii Revised Statutes.

The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment of mechanics' liens which may be filed of record against the Project, whether or not claim for the amount of such lien be presented under and against this bond.

| Signed this | day of _ | | , | |
|-------------|----------|--------|--------------------|--|
| | | (Seal) | Name of Contractor | |
| | | | * Signature | |
| | | | Title | |

*ALL SIGNATURES MUST BE ACKNOWLEDGED BY A NOTARY PUBLIC

-3- EXHIBIT E

EXHIBIT H

PERFORMANCE BOND FOR SUPPLEMENTAL AGREEMENT FOR GOODS AND SERVICES

(11/17/98)

KNOW TO ALL BY THESE PRESENTS:

| That | we, | | , | | |
|-------------------------------|--|-------------------------------------|---|--|--|
| | (Full Legal Name and Str | reet Address of Contractor) | ,, | | |
| as Contracto | or, hereinafter called Contractor, is | held and firmly bound unto the | | | |
| | , its successors and | Lassians as Obligos horoinaftor o | allod Obligoo | | |
| (State/Coun | tv Entity) | rassigns, as Obligee, hereinalter C | alled Obligee, | | |
| in the amour | nt of | | | | |
| | (Dollar Amou | ınt of Contract) | | | |
| DOLLARS (\$), lawful money of | | ney of the United States of Americ | a, for the | | |
| payment of v | which to the said Obligee, well and | truly to be made, Contractor binds | itself, its | | |
| heirs, execu | tors, administrators, successors an | d assigns, firmly by these presents | . Said | | |
| amount is ev | videnced by: | | | | |
| | | | | | |
| | Legal tender; | | | | |
| | Chara Cartificata una anditionally | | albt to | | |
| | • | assigned to or made payable at si | | | |
| | | | ······································ | | |
| | Description | | , | | |
| | Certificate of Deposit. No. | , dated | issued | | |
| | by | | | | |
| | • | | ······································ | | |
| | | dit union insured by the Federal De | | | |
| | Insurance Corporation or the National Credit Union Administration, payable at | | | | |
| | sight or unconditionally assigned | l to | | | |
| | | | | | |
| | Cashior's Chock No | , dated | drawn | | |
| | on | , ualeu | , urawii | | |
| | a bank savings institution or cre | dit union insured by the Federal De | enosit | | |
| | Insurance Corporation or the National Credit Union Administration, payable at | | | | |
| | | l to | | | |
| | | | | | |
| | | | | | |
| | Teller's Check No | , dated | , drawn | | |
| | on | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | a bank, savings institution or credit union insured by the Federal Deposit | | | | |
| | Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to | | | | |
| | signt of unconditionally assigned | | | | |
| | | | | | |

-1- EXHIBIT H

| | asurer's Check No | , dated | , drawn | | |
|----------------------|--|---------------------------|--|--|--|
| a ba Inst | on a bank, savings institution or credit union insured by the Federal Depo Insurance Corporation or the National Credit Union Administration, par sight or unconditionally assigned to | | | | |
| | cial Check No. | | | | |
| Insu | on a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable sight or unconditionally assigned to | | | | |
| acc Dep | Certified Check No, dated, dated accepted by a bank, savings institution or credit union insured by the Fe Deposit Insurance Corporation or the National Credit Union Administration payable at sight or unconditionally assigned to | | | | |
| WHEREAS: | | | | | |
| | ctor has by written agreeme ee for the following Project: | | | | |
| and entered into S | upplemental Agreement No. | , dated; hereinafter coll | for the period ectively called Contract, | | |
| which Contract is in | ncorporated herein by refere | ence and made a part her | reof. | | |

NOW, THEREFORE,

The condition of this obligation is such that, if Contractor shall promptly and faithfully perform the Contract in accordance with, in all respects, the stipulations, agreements, covenants and conditions of the Contract as it now exists or may be modified according to its terms, and shall deliver the Project to the Obligee, or to its successors or assigns, fully completed as in the Contract specified and free from all liens and claims and without further cost, expense or charge to the Obligee, its officers, agents, successors or assigns, free and harmless from all suits or actions of every nature and kind which may be brought for or on account of any injury or damage, direct or indirect, arising or growing out of the doing of said work or the repair or maintenance thereof or the manner of doing the same or the neglect of the Contractor or its agents or servants or the improper performance of the Contract by the Contractor or its agents or servants or from any other cause, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

AND IT IS HEREBY STIPULATED AND AGREED that suit on this bond may be brought before a court of competent jurisdiction without a jury, and that the sum or sums specified in the said Contract as liquidated damages, if any, shall be forfeited to the Obligee, its successors or assigns, in the event of a breach of any, or all, or any part of, the covenants, agreements, conditions, or stipulations contained in the Contract or in this bond in accordance with the terms thereof.

-2- EXHIBIT H

| The amount of this bond may be reduced by and to the extent of any payment or payments made in good faith hereunder. | | | | | |
|--|--------|--------------------|--|--|--|
| Signed this | day of | , | | | |
| | (Seal) | Name of Contractor | | | |
| | | * Signature | | | |
| | | Title | | | |

*ALL SIGNATURES MUST BE ACKNOWLEDGED BY A NOTARY PUBLIC

-3- EXHIBIT H

EXHIBIT I

CONTRACTOR ACKNOWLEDGMENT

[FOR USE WITH PERFORMANCE AND PAYMENT BONDS] (11/12/97)

| CONTRACTOR AC | KNOWLEDGMENT: | |
|----------------------|---|---|
| STATE OF | : SS. NTY OF) | |
| | | , 19, before me |
| he/she/they is/are _ | | and, 19, before me, and and , who, being by me duly sworn, did say that and |
| sign said instrument | ed in the foregoing insti in behalf of the Contra he free act and deed of | rument, and that he/she/they is/are authorized to actor, and acknowledges that he/she/they executed f the Contractor. |
| | | |
| (N-4 QI) | | Nederic Dublic |
| (Notary Seal) | | Notary Public State of |
| | | My commission expires: |