

**General Conditions for Design-Build Contracts
of the Honolulu Authority for Rapid Transportation**

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Chapter 1 – Preamble

1.1 Procurement Code

The Honolulu Authority for Rapid Transportation General Conditions for Design-Build Contracts (“GCDB” or “General Conditions”), incorporated by reference in the solicitation document and the awarded contract, represent the Honolulu Authority for Rapid Transportation (HART)'s policy and requirements relating to contracts as authorized by Hawaii Revised Statutes (HRS), Chapter 103D, and its promulgated rules under Hawaii Administrative Rules (HAR), Title 3, Department of Accounting and General Services. References to HAR provisions in the General Conditions are included for convenience only.

1.2 Contract Documents; Order of Precedence

The Contract, also referred to as “Contract Documents” and “Agreement,” shall include the documents listed below, including all amendments thereto, with the latest taking precedence over previous versions, listed in descending order of precedence:

- (a) The Agreement Form, Contract Amendments, Change Orders;
- (b) Addenda;
- (c) Special Provisions;
- (d) HART’s General Conditions for Design-Build Contracts (“General Conditions” or “GCDB”);
- (e) Prescriptive Requirements include the following documents, which are of equal precedence unless explicitly stated otherwise: (1) Project-Specific Requirements, (2) Compendium of Design Criteria, (3) Prescriptive Technical Specifications, (4) Prescriptive Drawings, and (5) other requirements identified as Prescriptive as herein defined (see GCDB Section 2.1, “Definitions”);
- (f) Approved Requests for Variances from the Guidance Materials as herein defined (see GCDB Section 2.1, “Definitions”);
- (g) Guidance Materials include the following documents, which are listed in the order of precedence unless explicitly stated otherwise: (1) Guidance Technical Specifications, (2) Guidance Drawings, (3) HART Standard Drawings, and (4) HART Directive Drawings, all as herein defined (see GCDB Section 2.1, “Definitions”);
- (h) Construction Specifications, as defined herein (see GCDB Section 2.1, “Definitions”), provided by the Contractor, but excluding any variances from Contract requirements that have not been specifically approved in writing by HART;
- (i) Construction Drawings, as herein defined (see GCDB Section 2.1, “Definitions”), provided by the Contractor, but excluding any variances from Contract requirements of that have not been specifically approved in writing by HART;
- (j) The Request for Proposals; and
- (k) The Contractor’s Proposal, including the required submissions, as modified by Best and Final Offer (BAFO), to the extent it is consistent with the requirements of the Contract Documents, except those terms which are accepted by HART to take a higher order of precedence.

1.3 Prescriptive and Guidance Requirements

The Contract Documents contain Prescriptive Requirements and Guidance Materials, as defined, which provide a preliminary baseline for the design of the Project. Contractor is required to adhere to the Prescriptive Requirements. Contractor may deviate from other design concepts included in the RFP documents, including the Guidance Materials, subject to obtaining appropriate approvals from HART and third parties as described herein.

END OF CHAPTER

Chapter 2 – General Provisions

2.1 Definitions

Terms as used in this solicitation document and the Contract, unless the context requires otherwise, shall have the following meaning:

“Addendum/Addenda” means a written document issued by the Contracting Officer during the solicitation period involving changes to the solicitation documents which shall be considered and made a part of the solicitation documents and resulting contract.

“Affiliate” means any Person that:

(a) Directly or indirectly, through one or more intermediaries, control, is controlled by, or is under common control with the following:

- (1) The Contractor; or
- (2) Any Principal Participant

(b) Holds 10% or more of the equity interest, directly or indirectly, beneficially or of record, by the following:

- (1) The Contractor; or
- (2) Any Principal Participant; or
- (3) Any Affiliate of the Contractor under subsection (a) of this definition.

For purposes of this definition, the term “control” means the possession, directly or indirectly, of the power to cause the direction of the management of a Person, whether through voting securities, by contract, by family relationships, or otherwise.

“Agreement” means the Contract.

“Amendment” shall have the same meaning as “contract modification” or “modification” as hereafter defined.

“As-Built Drawings” means the red-lined Construction Drawings produced and maintained by the Contractor to document the details and dimensions of the completed Work.

“As-Built Specifications” means the red-lined Construction Specifications produced and maintained by the Contractor to document the products, methods, and materials incorporated into the completed Work.

“Alternative Technical Concept” or “ATC” means concepts submitted by Offerors pursuant to the Request for Proposals (RFP) that modify the Project, as described in the Contract Documents.

“Baseline Project Schedule” means the time-scaled and cost-loaded Critical Path Method (CPM) network, updated in accordance with the Contract and depicting the Price Items and subordinate activities and their respective prices (distributed over time), durations, sequences, and interrelationships and represent the Contractor’s Work plans; the Contractor’s Work Breakdown Structure (WBS) for the Work including the design, permitting and construction activities and completing the Project; and the Contract Price distributed over the period of the Contract.

“Best Value” means the most advantageous offer determined by evaluating and comparing all relevant criteria in addition to price so that the offer meeting the overall combination that best serves HART is selected. These criteria may include, in addition to others, the total cost of ownership,

performance history of the Offeror, quality of goods, services, or construction, delivery, and proposed technical performance. [HAR 3-122-1]

“Bid” means the executed document submitted by a bidder in response to an invitation for bids, or a multi-step bidding procedure. [HAR 3-120-2]

“Bidder” means any individual, partnership, firm, corporation, joint venture, or other legal entity submitting, directly or through a duly authorized representative or agent, a bid for goods, service, or construction contemplated. [HAR 3-120-2] Upon award of contract to the successful bidder, the term “bidder” shall mean the “contractor.”

“Bid Sample” means a sample to be furnished by a bidder to show the characteristics of the item offered in the bid. [HAR 3-122-1]

“Change Order” means an amendment or modification of the Contract signed by the Chief Procurement Officer or his/her authorized designee, directing the Contractor to make changes with or without the consent of the Contractor. [HRS 103D-104] [HAR 3-125-2]

“Chief Procurement Officer” means the Honolulu Authority for Rapid Transportation Executive Director and CEO, as provided in HRS Section 103D-203, or the officer's designee. [HAR 3-120-2]

“City” means the City and County of Honolulu, State of Hawaii.

“Compendium of Design Criteria” means HART’s standard design criteria that define the minimum acceptable technical standards for general application on all HART projects unless otherwise modified by the Contract Documents.

“Contaminated Material” means any natural or man-made material that contains small amounts of Hazardous Substance(s) in a concentration less than that which would trigger HART’s handling, transport, and disposal of Hazardous Material or Hazardous Waste. This also includes any regulated material, such as petroleum-contaminated soil, that upon exposure may pose an existing or potential threat to human health or the environment.

“Construction” means the process of building, altering, repairing, improving, or demolishing any public structure or building, or other public improvements of any kind to any public real property. The term includes the routine operation, routine repair, or routine maintenance of existing structures, buildings, or real property. [HRS 103D-104]

“Construction and Demolition Waste” includes solid wastes, such as building materials, packaging, rubbish, debris, and rubble resulting from construction, remodeling, repair and demolition operations.

“Construction Documents” include Construction Drawings, Construction Specifications, design analyses, calculations, reports, and other documents required for performing and completing the Contract requirements.

“Construction Drawings” means those Construction Documents developed by the Contractor to define the specific requirements of the Work. Construction Drawings shall be signed and sealed by the Engineer of Record’s Responsible Engineer(s).

“Construction Engineering and Inspection” or “CE&I” means the Project consultant who, on behalf of HART, will monitor and/or audit the Contractor’s construction, schedule and quality.

“Construction Specifications” means those specifications developed by the Contractor to define and control the specific requirements, conditions, means, and methods to be used for the Work. Construction Specifications shall be based on the Contract requirements, including HART Standard

Specifications (as modified in the Contract Documents) and shall provide direction and standards for the Work that meet or exceed the quality requirements of the Contract.

“Contract” or “Contract Documents” means the fully executed agreement between HART and the Contractor for the goods, services, construction or professional services as procured, for which award was made to the Contractor, including the furnishing of labor, materials and equipment in connection therewith. See GCDB Section 1.2 for specific documents that comprise the Contract Documents.

“Contract Modification” or “Modification” means any written alteration within the scope of the contract to specifications, delivery point, rate of delivery, period of performance, price, quantity, or other provisions of the Contract fully executed by all parties to the Contract. [HRS 103D-104] [HAR 3-125-3]

“Contract Management System” or “CMS” means the Oracle Contract Management System used and customized by HART.

“Contract Specifications” means, collectively, all of the technical requirements of the Work specified in the Prescriptive Requirements and Guidance Materials.

“Contracting Officer” means the Honolulu Authority Rapid Transportation Executive Director and CEO or his delegated designee.

“Contractor” means any individual, partnership, firm, corporation, joint venture, or other legal entity undertaking the execution of the Work under the terms of the Contract with HART, acting directly or through its agents or employees. [HAR 3-120-2]

“Contractor Health and Safety Plan” (CHASP) is a document prepared by the Contractor which describes their company plan and policies and complies with Hawaii Administrative Rules 12-110-2 or 12-110-60 written safety and health program criteria. This document must be submitted to HART for information purposes only.

“Cost analysis” means the evaluation of cost data for the purpose of arriving at costs actually incurred or estimates of costs to be incurred, prices to be paid, and costs to be reimbursed. [HAR 3-120-2]

“Cost data” means information concerning the actual or estimated cost of labor, material, overhead, and other cost elements which have been actually incurred or which are expected to be incurred by the Contractor in performing the Contract. [HAR 3-120-2]

“Critical Path” means each path shown on the Baseline Project Schedule and updates to the Project Schedule that contains the longest path from NTP to Substantial Completion for which there is zero float. It also includes paths that, due to constrained dates, contain zero float.

“Days” means consecutive calendar days unless otherwise specified. [HAR 3-120-2]

“Definitive Design” means the early stage of the design which is intended to verify that the design concepts proposed by the Contractor meet Prescriptive and Guidance requirements.

“Design-Build” means the Project’s delivery methodology under which HART contracts with a single entity that has responsibility for the design and construction of the Project under a single contract with HART.

“Design-Build Team” means the Contractor.

“Design-Builder” means the Person selected pursuant to RFP Part 2 undertaking the execution of the Work under the terms of the Contract with HART, and acting directly or through its agents or employees (also referred to as the “Design-Build Team”).

“Design Drawings” and “Design Plans” may reference the Contract Documents or Reference Materials provided by HART, or may refer to design documents produced by the Contractor. If the context of a particular reference is unclear, HART reserves the right to interpret the use of these terms within the Contract Documents.

“Designee” means a person appointed by the Director, the Contracting Officer, the Chief Procurement Officer, or the Officer-in-Charge or any other authorized person to act on its behalf with delegated authority.

“Detour Plans” means the detour plans for traffic control associated with the Maintenance of Traffic Plans and/or the Traffic Control Plans.

“Differing Site Condition” means the “differing site condition” determination as set forth in GCDB Section 3.6.

“Director” means the Honolulu Authority Rapid Transportation Executive Director and CEO or his delegated designee.

“Discussion” means an exchange of information to promote understanding of HART's requirements and Offeror's proposal and to facilitate arriving at a contract that will be the best value to HART. Discussions are not permissible in competitive sealed bidding, except to the extent permissible in the first phase of multi-step sealed bidding to determine the acceptability of technical offers. [HAR 3-122-1]

“Engineer of Record” is the engineer or engineering firm, or the architect or architectural firm, whose respective engineers or architects, currently licensed in the State of Hawaii, develop the design for the Project and is in direct charge of the Project's design.

“Erosion Control” means any action taken to minimize the destructive effects of wind and water on surface soil. The use and placement of berms and dams, fiber mats, grass, sod, mulch, slope drains, sediment basins, and drainage systems may be temporary, used during construction or permanent and installed for the anticipated useful life of the Honolulu Rail Transit Project.

“Escrowed Proposal Documents” means pricing data assembled by the Contractor, placed in escrow, which supports and explains the basis of the proposed pricing or bid price. It also means Exhibit F (Insurance Premium Worksheet) identifying the Contractor's insurance costs.

“Final Acceptance” means after Substantial Completion upon the completion of the punch-list and the delivery of all remaining tools, spare parts, instructions, keys, and other similar items required to operate and maintain the Work, the Contractor shall submit a written request for a final inspection, after which, HART determines that all discrepancies are satisfactorily corrected and has accepted the Project.

“Final Design” means the point in the design development where the Contractor has completed the design and has resolved all conflicts and unresolved comments from the Definitive Design.

“Final Proposal” means the final mutually-agreed terms of the proposal submitted by the awarded offeror in response to HART's request for proposals or the Best and Final Offer accepted by HART in accordance with HAR §§3-122-53 and 3-122-54.

“Goods” means all property, including but not limited to equipment, equipment leases, materials, supplies, printing, insurance, and processes, including computer systems and software, excluding land or a permanent interest in land, leases of real property, and office rentals. [HRS 103D-104]

“Guarantee” or “Warranty” means a written documentation of assurance of the quality of or the length of use to be expected, required by the Contract, or represented by the Contractor (or its suppliers and/or subcontractors) of equipment, material, device, or system offered, or work performed.

“Guarantor” means the Person assuming responsibility for the tangible net worth deficit or financing deficit obligations of the Offeror, as required by the Contract.

“Guidance Drawings” means any RFP Drawings, HART Standard Drawings, HART Directive Drawings, or other drawings provided with the RFP and specifically designated as “Guidance.” Guidance Drawings are preliminary or in-progress, incomplete design drawings which, together with other Contract Documents, provide the basic framework of the Work and Scope of the design and construction of this Project, and may serve as a starting point for the Contractor's design and preparation of Construction Drawings and Construction Specifications. Construction Drawings prepared by the Contractor are to be signed & sealed by the Contractor's Responsible Engineer regardless of the extent to which Contractor has incorporated concepts depicted on Guidance Drawings. Guidance Drawings are not Construction Documents.

“Guidance Materials” or “Guidance Documents” means any Contract Documents specifically designated as “Guidance.”

“Guidance Technical Specifications” means any Technical Specifications provided with the RFP and specifically designated as “Guidance.” Guidance Technical Specifications are preliminary or in-progress, incomplete technical specifications provided to establish the minimum requirements for construction of this Project, and may serve as a starting point for the Contractor's preparation of Construction Specifications. Construction Specifications prepared by the Contractor are to be signed & sealed by the Contractor's Responsible Engineer regardless of the extent to which Contractor has incorporated requirements contained in Guidance Technical Specifications. Guidance Technical Specifications are not Construction Documents.

“HAR” means the Hawai‘i Administrative Rules of the State of Hawaii, as amended.

“HART Directive Drawings” means HART's drawings that depict the basic configuration and standardized requirements for certain facility elements, or other system-related components and subassemblies, to be designed and adapted by HART’s Contractors’ Engineer of Record. For elements depicted in Directive Drawings, HART desires consistency of design, including interfaces, throughout the system. Directive Drawings are not Construction Documents.

“HART Plans Standards” is the HART specification that defines the format to be used for all drawings.

“HART Standard Drawings” means HART's drawings that depict the standard material, dimensional, and installation or construction requirements for certain facility elements, or components and subassemblies, for use in different locations under multiple contracts throughout the Honolulu Rail Transit Project. For elements depicted in HART Standard Drawings, HART desires consistency in materials and functionality throughout the system. Contractor shall perform its own investigations and engineering to verify feasibility and adaptability, including conformance to all design and interface requirements, in order to incorporate such standard requirements into the Work. HART Standard Drawings are not Construction Documents.

“HART Standard Specifications” means HART’s standard technical specifications for general application on HART projects and/or the standard specifications of another entity affected by the Work. Contractor shall perform its own investigations and engineering to verify feasibility and adaptability, including conformance to all design and interface requirements, in order to incorporate such standard requirements into the Work. Standard Specifications are not Construction Documents.

“Hazardous Material” shall mean the term as defined in 49 CFR §171.8. The term includes hazardous substances, hazardous wastes, marine pollutants, elevated temperature materials, materials

designated as hazardous in the Hazardous Materials Table (see 49 CFR 172.101), and materials that meet the defining criteria for hazard classes and divisions in 49 CFR 173.

“Hazardous Substance” shall mean any substance designated or listed under subparagraphs (1) and (2) of this definition, exposure to which results or may result in adverse effect on the health or safety of employees:

- (1) Any substance defined under Section 101(14) of CERCLA and all petroleum, crude oil or any fraction thereof, which is not otherwise specifically listed in 49 CFR § 172.101.
- (2) Any and all radioactive materials, asbestos, organic compounds known as polychlorinated biphenyls, chemicals, any biological agent and other disease-causing agent which after release into the environment and upon exposure, ingestion, inhalation, or assimilation into any person or organism, either directly from the environment or indirectly by ingestion through food chains, will or may reasonably be anticipated to cause death, disease, behavioral abnormalities, cancer, genetic mutation, physiological malfunctions (including malfunctions in reproduction) or physical deformations in such persons or their offspring.

“Hazardous Waste” means a waste or combination of wastes as defined in 40 CFR §261.3, or those substances defined as Hazardous Wastes in 49 CFR §171.8.

“HRS” means the Hawai‘i Revised Statutes of the State of Hawaii, as amended.

“HSS” means the State of Hawai‘i Department of Transportation Standard Specifications.

“Incidental Utility Work” means the following Work necessary for the construction of the Project, including:

- (1) Relocations of Service Lines;
- (2) Protections in Place;
- (3) The adjustment of utility appurtenances (e.g., manholes, valve boxes, and vaults) for line and grade upon completion of roadway work;
- (4) All design and construction work necessary to remove any utilities (whether or not in use as of the proposal submittal date) in situations for which leaving the utilities in place is not feasible or not permitted, or for facilities which the Contractor proposes be removed to accommodate or permit construction of the Project, regardless of whether replacements for such utilities are being installed in other locations; and
- (5) All design and construction work necessary to abandon in place any utility in accordance with proper procedures (e.g., flushing, capping, slurry backfill, etc.).

“Independent Assurance” means activities that are an unbiased and independent evaluation of all the sampling and testing procedures, equipment calibration, and qualifications of personnel used in acceptance, including the Contractor’s Quality Control.

“Informal Bid” means a quotation made under small purchase procedures, pursuant to HRS Section 103D-305 or a quotation made under emergency purchase procedures, pursuant to HRS Section 103D-307.

“Inspector” means a Contractor representative hired by the Contractor to inspect methods and materials, equipment, and Work, both on and off the Site, of the Project.

“Interface Control Document” (ICD) is the document that contains lists of agreed interface coordination points and associated documents, prepared and compiled by the Contractor, and maintained and archived in the CMS, which memorializes the communication, coordination, and closure of interface points by interfacing parties.

“Interface Control Manual” (ICM) describes and documents the overall approach to interface management between the Contractor and the other parties under separate contracts with HART. The ICM will identify interface roles and responsibilities and establish protocols for communication and documentation of interface information. The ICM is a dynamic document, which will be reviewed periodically and revised, as needed.

“Interface Definition Meeting” (IDM) is a meeting held between two or more interfacing contractors, with participation by HART, for the purpose of identifying, coordinating, and closing interface points necessary to satisfactorily complete the Work. IDMs shall occur with each of the interfacing contractors.

“Invitation for Bids” or “Request for Bids” means all documents, whether attached or incorporated by reference, utilized for soliciting bids under the competitive sealed bidding source selection method. [HAR 3-120-2]

“LEED” means the Leadership in Energy and Environmental Design green building rating systems developed and adopted by the U.S. Green Building Council (USGBC).

“Mobilization” means the Contractor’s cost to mobilize and get set up on the project.

“Maintenance of Traffic Plans” means the traffic control plans for temporary 24-hour or longer lane or shoulder closures.

“Notice to Offerors” means the publication or the notice of a solicitation for offers.

“Notice to Proceed” or “NTP” means the document issued to the Contractor designating the official commencement date of the performance under the Contract.

“Offer” means the bid, proposal, or quotation. [HAR 3-120-2]

“Offeror” means any individual, partnership, firm, corporation, joint venture, or other legal entity submitting, directly or through a duly authorized representative or agent, an offer for the goods, service, or construction contemplated. [HAR 3-120-2]

“Officer-in-Charge” means the Executive Director or CEO of HART or his delegated designee.

“Opening” means the date set for opening of bids, receipt of un-priced technical offers in multi-step sealed bidding, or receipt of proposals in competitive sealed proposals. [HAR 3-122-1]

“Periodic Payment Schedule” or “PPS” means a projection of the monthly payment schedule for the life of the Project, based on the Contractor’s Baseline Project Schedule and the Schedule of Prices with a breakdown of Price Items, Descriptions, and Values of the Work to be provided under the Contract. The PPS’ cumulative value shall not exceed the Total Contract Amount.

“Person” means any individual, firm, corporation, company, limited liability corporation (LLC), limited liability partnership (LLP), joint venture, voluntary association, partnership, trust or public or private organization, other legal entity, or combination thereof.

“Prescriptive Drawings” means any RFP Drawings, HART Standard Drawings, HART Directive Drawings, or other drawings specifically designated as “Prescriptive.” Prescriptive Drawings describe mandatory technical or procedural requirements, or engineering data that are fixed, and are not subject to change except by a HART approved Alternative Technical Concept. Prescriptive Drawings are

substantially complete, and still require the Contractor to be responsible for verifying the data or technical requirements that are incorporated into the Contractor's signed & sealed Construction Drawings and Construction Specifications. Prescriptive Drawings are not Construction Documents.

“Prescriptive Requirements” means any Contract Documents specifically designated as “Prescriptive.”

“Prescriptive Technical Specifications” means any Technical Specifications specifically designated as “Prescriptive.” Prescriptive Technical Specifications describe mandatory technical or procedural requirements, or engineering data that are fixed, and are not subject to change except by a HART-approved Alternative Technical Concept or Change Order. Prescriptive Technical Specifications are substantially complete, and still require the Contractor to be responsible for verifying the data or technical requirements that are incorporated into the Contractor's signed & sealed Construction Specifications. Prescriptive Technical Specifications are not Construction Documents.

“Price analysis” means the evaluation of price data, without analysis of the separate cost components and profit as in cost analysis, which may assist in arriving at prices to be paid and costs to be reimbursed. [HAR 3-120-2]

“Price data” means factual information concerning prices, including profit, for goods, services, or construction substantially similar to those being procured. In this definition, “prices” refers to offered or proposed selling prices, historical selling prices, and current selling prices of such items. This definition refers to data relevant to both the general contractor and subcontract prices. [HAR-3-120-2]

“Price Item” means a component of the Baseline Project Schedule and Schedule of Values for which the Contractor provides a Price Item Value for all Work included in that item. A Price Item may be a major contract item or series of interrelated items.

“Price Item Value” means that value allocated by the Contractor to a Price Item.

“Principal Participant” means any of the following entities:

- (1) The Contractor (or the Offeror);
- (2) An individual firm, all general partners, or joint venture members of the Contractor (or Offeror); and/or
- (3) All Persons and legal entities holding (directly or indirectly) a 15% or greater interest in the Contractor (or the Offeror).

“Procurement” means buying, purchasing, renting, leasing, or otherwise acquiring any good, service, or construction. The term also includes all functions that pertain to the obtaining of any good, service, or construction, including description of requirements, selection and solicitation of sources, preparation and award of contracts, and all phases of contract administration. [HRS 103D-104]

“Procurement Officer” means the Honolulu Authority for Rapid Transportation Executive Director and CEO or his authorized representative acting within the limits of authority. [HRS 103D-104]

“Project” means the Work to be performed as set forth in the Contract, including furnishing all services, labor, goods, materials, supplies, equipment and other incidentals reasonably necessary for the successful completion of Work contemplated under the Contract.

“Project Schedule” means the regular and systematic update to the HART-accepted Baseline Project Schedule, completed by the Contractor on a monthly basis and submitted with the Contractor’s payment request.

“Project Specific Requirements” is the document which amends HART’s Compendium of Design Criteria and defines project-specific technical and administrative requirements for the Project.

“Proposal” means the executed document submitted by an Offeror in response to a Request for Proposals.

“Protect in Place” or “Protection in Place” means any activity undertaken to avoid damaging a Utility which does not involve removing or relocating that Utility, including staking the location of a utility, avoidance of a utility’s location by construction equipment, installing steel plating or concrete slabs, encasement in concrete, temporarily de-energizing power lines, and installing physical barriers. For example, temporarily lifting power lines without cutting them would be considered a method in which to Protect in Place, whereas temporarily moving power lines to another location after cutting them would be considered a Temporary Relocation. The term includes both temporary measures and permanent installations meeting the foregoing definition.

“Punchlist” means the list of items to be completed by the Contractor subsequent to inspection for Substantial Completion, to meet Final Acceptance.

“Quality Assurance” or “QA” means all planned and systematic actions by the Contractor necessary to provide assurances that the Contractor is effectively performing Quality Control (QC) in accordance with the Quality Assurance Plan (QAP), that all Work complies with the Contract and that all materials incorporated in the Work, all equipment, and all elements of the Work will perform satisfactorily for the purpose intended. QA actions include, but are not limited to, monitoring, independent verification testing, auditing, spot-checking and training the quality management professionals assigned to perform QC. All QA reviews, audits, and verification testing shall be documented and part of the Contractor’s QAP and available for HART review.

“Quality Control” or “QC” means the total of all activities performed by the Contractor, subcontractor, producer or manufacturer to ensure that the Work meets Contract requirements. This includes, but is not limited to, procedures for design, materials handling and construction quality inspection, sampling and testing of materials, plants, production and construction, material certifications; calibration and maintenance of equipment; production process control, and monitoring of environmental compliance. Quality Control also includes documentation of all QC construction efforts.

“Quality Manager” means the individual employed by the Contractor, who is responsible for the Contractor’s overall quality program, including the quality of management, design, and construction.

“Quality Assurance Plan” or “QAP” means the plan that sets out the Contractor’s means of complying with its obligations in relation to QA/QC.

“Record Drawings” means the conformed Construction Drawings which comply with HART’s Plan Standards and incorporate all changes noted on the As-Built Drawings to document the final constructed Work for turnover to HART. Record Drawings shall be signed and sealed by the Engineer of Record.

“Record Specifications” means the conformed Construction Specifications prepared by the Contractor which incorporate all changes noted on the As-Built Specifications to document the final constructed Work for turnover to HART. Record Specifications shall be signed and sealed by the Engineer of Record.

“Reference Drawings” or “Reference Plans” means drawings provided with the RFP that are not designated as Prescriptive or Guidance. Reference Drawings and any CAD files associated therewith are intended only to reduce the Contractor's effort in preparing its Construction Documents, and only to the extent that the Reference Drawings are consistent with the Contractor's design. Offerors shall not rely upon Reference Drawings as a basis for their Proposal. HART makes no representation that Reference

Drawing concepts fulfill the Contract Specifications, are accurate, are acceptable to third parties, are compliant with HART's Plans Standards, or are constructible.

“Reference Materials” or “Reference Documents” means information provided with the RFP that is potentially related to the Project. Reference Materials are provided for disclosure by HART and as information for Offerors. Where Reference Materials are incorporated into the Contract Documents by reference, such Reference Materials are considered Contract Documents only to the extent that they have been referenced. In the absence of any such reference, Reference Materials are not Contract Documents.

“Relocation” means each removal, relocation, abandonment, and/or Protection in Place (including provision of temporary services as necessary) of any and all Utilities that is necessary in order to complete the Work as required by the Contract.

“Request for Information” (RFI) means an instrument initiated by the Contractor to request information.

“Request for Interface Data” (RFID) is a document within the Contract Management System (CMS), whereby an interfacing contractor requests or provides data and information from its interfacing counterpart for the accomplishment of its Work scope. RFIDs serve as primary means for interfacing parties to formally request the exchange of data and information regarding an interface point.

“Retainage” means a portion of Contract payment withheld by HART according to the terms of the Contract.

“Responsible Engineer” means the engineer, currently licensed in the State of Hawaii, who is performing professional engineering services on behalf of the Engineer of Record and whose stamp will appear on the Construction Specifications and Construction Drawings.

“Responsible Offeror” means a person who has the capability in all respects to perform fully the Contract requirements, and the integrity and reliability which will assure good faith performance. [HRS 103D-104]

“Responsive Bidder or Offeror” means a person who has submitted an offer which conforms in all material respects to the IFB or RFP. [HAR 3-120-2]

“RFP Drawings” means the drawings provided with the Request for Proposals. RFP Drawings may contain Prescriptive Drawings, Guidance Drawings, and/or Reference Drawings which are so designated. Therefore, RFP Drawings may contain both Contract Documents and Reference Materials.

“Safety and Security Certification” is the series of processes that collectively verify the safety and security readiness of a project for public use. [FTA-MA-90-5006-02-01]

“Samples” means representative quantities of materials taken in specified amounts and frequencies for subsequent testing in accordance with specified standard procedures, or physical examples of materials to be supplied or workmanship which shall establish standards by which the Work shall be judged provided such samples meet Contract requirements.

“Schedule of Values” means the schedule of values for units of design, material, equipment and labor utilized for the Project that shall be consistent with the information or breakdowns provided in the Escrowed Proposal Documents (see GCDB Section 7.4, Escrowed Proposal Documents).

“Service line” means a utility line, the function of which is to connect directly the improvements on an individual property (e.g., a single family residence or an industrial warehouse) to another utility line located off such property, which other utility line connects more than one such individual line to a larger system, as well as any cable or conduit that supplies an active feed from a utility owner’s facilities to

activate or energize the government's local lighting and electrical systems, traffic control systems, street lights, communication systems or irrigation systems.

"Shop Drawings" means those diagrams, schedules, drawings or other data prepared by a manufacturer or supplier to show some part of the Work.

"Site" means those areas utilized by the Contractor for the performance of Work under this Contract and includes any areas on which Relocation Work is performed and any location being temporarily used by the Contractor for storage of materials and equipment to be incorporated into the Work. This definition is distinguishable from the definition of "Project Site" defined in Chapter 4 of the GCDB for HART's Owner Controlled Insurance Program (OCIP).

"Site Safety and Security Plan" (SSSP) means the plan prepared by the Contractor that sets out the Contractor's means of complying with its obligations in relation to Site safety and security, which plan shall be provided and maintained in accordance with the Contract Documents.

"Solicitation" means an invitation for bids, request for proposals, request for quotation, or a request for qualifications issued by HART for the purpose of soliciting bids or proposals to perform under HART contract. [HAR 3-120-2]

"Special Provisions" means additions and revisions to the solicitation documents, including additions or revisions to the General Conditions for Design-Build Contracts, or Contract Specifications applicable to this individual Project.

"State" means the State of Hawai'i.

"Standard Commercial Product" means a product or material, in the normal course of business, customarily maintained in stock or readily available by a manufacturer, distributor, or dealer for the marketing of the product. [HAR 3-122-1]

"Subcontract" means any agreement entered into by the Contractor or its subcontractor (at any tier) for a portion of the construction or any other part of the Work in connection with, and under the terms of, the Contract.

"Subcontractor" means any person who enters into an agreement with the Contractor to perform a portion of the work for the Contractor. [HAR 3-120-2]

"Substantial Completion" means the point at which the Project, or a HART-designated portion thereof, is sufficiently complete, in accordance with the Contract Documents, so that HART may use or occupy the Work including guideway, building, or facility project or designated portion thereof, for the intended use for which it is originally designed and intended for. This would include the completion of all life safety systems, weather-tight envelope, and adequate protection of facility, and building occupants and/or equipment is ensured from hazards posed by additional or possible construction activities or other potentially harmful conditions that may exist or become evident during the final work to complete the Project per the Contract Documents.

"Substantial Completion Date" means the date on which the Contractor is required to achieve Substantial Completion in accordance with the Contract Documents.

"System" means the 20-mile elevated rail line that will connect West Oahu with downtown Honolulu and Ala Moana Center. The System features electric, steel-wheel trains each capable of carrying passengers from East Kapolei to Ala Moana Center with 21 station stops including the Airport and Downtown. The System consists of, but is not limited to, fixed facilities that include the guideway structure, stations, and a Maintenance and Storage Facility (MSF), passenger vehicles, and transit core systems, including train control, communications, traction electrification and fare vending.

“Temporary Relocation” means any interim Relocation of a Utility (i.e., the installation, removal, and disposal of the interim facility) pending installation of the permanent facility in the same or a new location, and any removal and reinstallation of a Utility in the same place with or without an interim relocation.

“Traffic Control Plans” means the traffic control plans for the temporary lane and/or roadway closures shorter than 24 hours in duration.

“Unit Price” means the price established by the Contract for a specified unit quantity of Work that is measured for payment.

“Utility” means a privately, publicly, or cooperatively owned facility (which term includes lines, systems and other facilities, and includes municipal and/or government facilities) for transmitting or distributing communications, cable television, power, electricity, gas, oil, crude products, water, steam, waste, or any other similar commodity, including any fire or police signal system as well as streetlights associated with roadways owned by local agencies. However, when used in the context of the utility relocations to accommodate the Project, the term “Utility” or “utility” excludes traffic signals, flashing beacon systems, and lighting systems for the Project. The necessary appurtenances to each utility facility shall be considered part of the facility, including the utility source, guide poles, feeder service lines, supports, etc. Without limitation, any service lateral connecting directly to a utility shall be considered an appurtenance to that utility, regardless of the ownership of such service lateral.

“Utility Agreement” means the agreements with Utility Owners.

“Utility Owner” means the owner or operator of any Utility (including governmental persons and privately held entities).

“Utility Standards” means the standard specifications, standards of practice, and construction methods that are applicable to a utility relocation pursuant to the terms and conditions of a Utility Agreement; provided that if a particular facility is not governed by a Utility Agreement or the applicable Utility Agreement does not specify applicable standards, the term “Utility Standards” shall mean the standard specifications, standards of practice, and construction methods that would be customarily applied by a similar utility owner to its facilities, in effect as of the Offer date.

“Verification Sampling and Testing” means sampling and testing performed to validate the quality of the product. When necessary, HART, or a firm retained by HART, will perform Verification Sampling and Testing.

“Volatile Organic Compounds” (VOCs) means any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. Compounds that have negligible photochemical reactivity, listed in EPA 40 CFR 51.100(s), are excluded from this regulatory definition.

“Warranty” shall have the same meaning as Guarantee.

“Work” means all of the administrative, design, utility support services, legal, professional, manufacturing, supply, installation, construction, supervision, management, testing, verification, labor, material, equipment, maintenance, documentation, and other duties and services to be furnished and provided by the Contractor to fulfill all the requirements of the Contract, including all efforts necessary or appropriate to achieve Final Acceptance of the Project as set forth in the Contract. In certain cases, the term is also used to mean the products of the Work.

“Work Breakdown Structure” (WBS) means the breakdown of Project elements into definable units in a logical manner to be able to review cost, schedule, and other Project information.

2.2 References and Abbreviations

(a) When reference is made to known standards and specifications, the most recently adopted and published edition of such standards and specifications unless otherwise specified.

(b) The Contract Documents contain references to various “standard” specifications, codes, practices, and requirements for materials, equipment, Work quality, installation, inspections, and tests, where references are published and issued by the organizations, societies, and associations listed herein by abbreviation and name. Such references are hereby made a part of the Contract Documents to the extent specified in the General Conditions.

(c) Whenever a referenced standard contains administrative requirements, including measurement and payment provisions, such as the standard specifications of various governmental entities, utility districts, and other agencies, such administrative requirements shall not apply to the Work of this Contract

(d) Utility standards referenced in standard specifications shall apply only to material and workmanship with respect to Work, which upon completion is to be accepted by a municipality or a utility company. The commercial terms within these references (e.g., Control of Work, Prosecution and Progress, and Measurement and Payment) are not applicable to this Contract.

(e) Abbreviations. The following abbreviations shall refer to the complete title the technical society, organization, body, code, rules, or standards, listed opposite each abbreviation:

AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
ADA	Americans with Disabilities Act
ADAAG	Americans with Disabilities Act Accessibility Guidelines
AIS	Archaeological Inventory Survey
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
APTA	American Public Transportation Association
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating, and Air Conditioning Engineers, Inc.
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
BMP	Best Management Practices
BPS	Baseline Project Schedule
BWS	Board of Water Supply, City and County
CAD	Computer Aided Design and Drafting
CAM	Construction Access Milestone
CCH	City and County of Honolulu
CCO	Contract Change Order
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act

CFR	Code of Federal Regulations
CGL	Commercial General Liability
CHASP	Contractor Health and Safety Plan
CHST	Construction Health and Safety Technician
CIH	Certified Industrial Hygienist
CM	Construction Manager
CMS	Contract Management System
CO	Change Order
COR	Department of the Corporation Counsel
CPC	Contractor Proposed Cost
CPM	Critical Path Method
CPO	Chief Procurement Officer
CSC	Core Systems Contractor
CSHT	Construction Safety and/or Health Technician
CSP	Certified Safety Professional
CSSP	Construction Safety and Security Plan
CWA	Clean Water Act
CWMP	Construction Waste Management Plan
DB	Design-Build
DBB	Design-Bid-Build
DBE	Disadvantaged Business Enterprise
DBOM	Design-Build-Operate-Maintain
DFIM	Design-Furnish-Install-Maintain
DCAB	Disability and Communication Access Board, Department of Health, State of Hawai‘i
DD	Data Date
DDC	Department of Design and Construction, City and County of Honolulu
DOH	Department of Health, State of Hawai‘i
DOT	United States Department of Transportation
DPP	Department of Planning and Permitting, City and County of Honolulu
DTS	Department of Transportation Services, City and County of Honolulu
ECP	Environmental Compliance Plan
EEO	Equal Employment Opportunity
EIS	Environmental Impact Statement

ENR	Engineering News Record (Trade Magazine)
EPA	United States Environmental Protection Agency
FAR	Federal Acquisition Regulations
FEIS	Final Environmental Impact Statement
FHWA	Federal Highway Administration, U.S. Department of Transportation
FTA	Federal Transit Administration, U.S. Department of Transportation
GCCC	HART's General Conditions for Construction Contracts
GCDB	HART's General Conditions for Design-Build Contracts
GPS	Global Positioning System
GDR-DB	Geotechnical Data Report – Design Builder
GER-DB	Geotechnical Engineering Report – Design Builder
GFDDR	Geotechnical & Foundation Design Differences Report
HAR	Hawai'i Administrative Rules
HART	Honolulu Authority for Rapid Transportation
HBCTCA	Hawai'i Building and Construction Trades Council Affiliates
HDOT	State of Hawai'i Department of Transportation
HFD	Honolulu Fire Department
HHCTCP	Honolulu High-Capacity Transit Corridor Project, means Honolulu Rail Transit Project (HRTP)
HIOSH	Occupational Safety and Health, Department of Labor and Industrial Relations, State of Hawai'i
HPD	Honolulu Police Department
HRS	Hawai'i Revised Statutes
HRTP	Honolulu Rail Transit Project
HST	Hawai'i Standard Time
HSS	State of Hawai'i Standard Specifications for Road and Bridge Construction
ICD	Interface Control Document
ICM	Interface Control Manual
IDM	Interface Definition Meeting
ITP	Inspection and Testing Plan
JV	Joint Venture
KHG	Kamehameha Highway Guideway Design-Build Project
LAN	Local Area Network
LLC	Limited Liability Company

LLP	Limited Liability Partnership
MMP	Mitigation Monitoring Program
MOT	Maintenance of Traffic
MS4	Municipal Separate Storm Sewer Systems
MSDS	Material Safety Data Sheet
MUTCD	Manual on Uniform Traffic Control Devices
NCR	Non-Conformance Report
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NPDES	National Pollutant Discharge Elimination System
NTP	Notice to Proceed
O&M	Operation and Maintenance
OEM	Original Equipment Manufacturer
OHSMS	Occupational Health and Safety Management Systems
OIC	Officer-in-Charge
OSHA	Occupational Safety and Health Administration, United States Department of Labor
PA	HHCTCP Section 106 Programmatic Agreement
PA/CR	Public Awareness and Community Relations
PIT	Public Involvement Team
PIV	Price Item Value
PM	Project/Construction Manager
PPS	Periodic Payment Schedule
PTD	Public Transit Division, DTS, City and County of Honolulu
QA	Quality Assurance
QAP	Quality Assurance Plan
QC	Quality Control
QM	Quality Manager
QMP	Quality Management Plan
RFI	Request for Information
RFID	Request for Interface Data
RFC	Request for Change
RFP	Request for Proposals
RFV	Request for Variance
ROD	Record of Decision

ROM	Rough Order of Magnitude
ROW	Right-of-Way
RTSA	Rapid Transit Stabilization Agreement
SAP	Sustainability Action Plan
SP	Special Provision
SSCP	Safety and Security Certification Plan
SSI	Sensitive Security Information
SSMP	Safety and Security Management Plan
SSSP	Site Safety and Security Plan
TCP	Traffic Control Plan
TPSS	Traction Power Substation
US	United States
US DOL	United States Department of Labor
US DOT	United States Department of Transportation
VE	Value Engineering
VECP	Value Engineering Cost Proposal
VOC	Volatile Organic Compound
WBS	Work Breakdown Structure

2.3 Certification of Funds

(a) No contract awarded shall be binding or of any force and effect, unless HART's Chief Financial Officer or designee has, in accordance with Section 103D-309, HRS, endorsed thereon a certificate that there is an appropriation or balance of an appropriation over and above all outstanding contracts, sufficient to cover the amount required by the contract.

(b) If a contract is a multi-term contract, under Section 3-122-149, HAR, HART's Chief Financial Officer shall only be required to certify that there is an appropriation or balance of an appropriation over and above all outstanding contracts that is sufficient to cover the amount required to be paid under the contract during the fiscal year or remaining portion of the fiscal year of the term of the multi-year contract; provided, however, this Section shall not apply to any contract in which the total amount payable to the Contractor cannot be accurately estimated at the time the contract is to be awarded. Payment and performance obligations for succeeding fiscal periods shall be subject to availability and appropriation of funds.

(c) Certification of a portion of fund. Notwithstanding the requirement for endorsement in subsection (a) above, certification of a portion of the total funds required for a contract may be permitted when an immediate solicitation will result in significantly more favorable contract terms and conditions to HART than a solicitation made at a later date; provided that certification for partial funding shall be permitted only if HART's Chief Financial Officer states in the certificate that the availability of funds in excess of the amount certified as available shall be contingent upon future appropriations or special fund revenues. All contracts partially funded shall be enforceable only to the extent to which funds have been certified as available. [HAR § 3-122-102]

(d) Contracts involving federal funds. In any contract involving not only HART, State or City funds, but supplemental funds from the federal government, HRS Section 103D-309 shall be applicable only to that portion of the contract obligation and payable out of HART, State or City funds. Unless otherwise specified, the Contractor, by submittal of a Proposal and acceptance of an award, agrees that payment of that portion of the Contract amount that is supplemented of funded entirely by federal funds shall be payable upon receipt of those federal funds.

(e) Every contract modification, change order, or contract price adjustment under a contract shall be subject to prior written certification by HART's Chief Financial Officer for funding the project or the contract, as to the effect of the contract modifications, change order, or price adjustment in contract price on the total project budget or the total contract budget. [HAR §3-122-241]

(f) In the event that any contract modification, change order, or adjustment results in an increase in the total budget or total contract budget, no contract modification, change order, or adjustment in contract price shall take effect, unless sufficient funds are made available therefor, or the scope of the project or contract is adjusted so as to permit the degree of completion that is feasible within the existing project budget or contract budget.

2.4 Execution of Contract

This Contract shall not be considered binding upon HART until the Contract has been fully and properly executed by all the parties thereto. Work performed prior to the execution of the Agreement will be at the sole risk of the Contractor.

2.5 Independent Contractor

It is expressly understood and agreed that the Contractor is an independent contractor, with the authority to control and direct the performance and details of the work and services herein contemplated; however, HART retains the general right of inspection by a designated representative in order to judge, whether in the HART's opinion, such work is being performed by the Contractor in accordance with the terms of this Agreement. The Contractor shall not be deemed to be an agent, servant, or employee of HART. The Contract shall not be construed to create a partnership or joint venture between HART and the Contractor.

2.6 Compliance with Contract Terms

The Work shall be completed in conformity with the Contract Documents. In the event the Contractor fails to so perform, the Chief Procurement Officer, in addition to any other recourse, reserves the right to suspend the Contractor from bidding on any or all contracts of HART, the City, the State of Hawaii, or other counties of the State, pursuant to HAR Chapter 3-126.

2.7 Obligations of Contractor for Design and Construction; Non-HART Approvals

2.7.1 Design and Construction

Contractor shall furnish the design of the Project and shall construct the Project as designed, in a good and workmanlike manner, free from defects and in accordance with the terms and conditions set forth in the Contract Documents. The Work shall properly interface with and be compatible with system requirements. All elements of the Work shall be designed and installed to be dimensionally, operationally, electrically and mechanically compatible within and between Project elements.

2.7.1.1 Contractor shall use the design firm(s) identified in the Proposal. Contractor shall not change the designated designer(s) or shift work from one design firm to another (including changes in work performed by Subcontractors) without the prior written approval of HART.

2.7.1.2 Contractor has full responsibility for the design of the Project. Contractor shall notify HART in writing regarding any proposed variation from the Prescriptive Requirements or Guidance Materials, including the reason for the proposed variation. Such notification shall include detailed information justifying the variation. Any variations included in submittals must be identified as such. Before proceeding with any proposed variation or correction from the Prescriptive Requirements or Guidance Materials, Contractor shall obtain a “no objection” or acceptance of the design by HART.

2.7.1.3 During construction of any portion of the Work, the Contractor shall ensure that the Design Manager, Design QC Engineer, and the Engineer responsible for the design applicable to that portion of the Work are available for clarification and timely resolution of design issues. Failure to do so shall be deemed a Contractor delay for each day any of these personnel are not available when requested by HART.

2.7.1.4 Omission of Details, Clarification from HART.

Omission of details of the Work from the Contract Documents or minor errors in details of the Work that are necessary to carry out the intent of the Contract Documents, or which are customarily performed, shall not relieve the Contractor from performing such omitted Work, or correcting the minor errors in the details of the Work, and they shall be performed as if fully and correctly set forth and described in the Contract Documents, without entitlement to a Change Order hereunder.

Should it appear that the Work to be done or any of the matters relative thereto is not sufficiently detailed or explained in the Contract Documents, or should the Contractor become aware of any errors, omissions, inconsistencies or other defects (including inaccuracies and inconsistencies) in the Contract Documents, Contractor shall submit an RFI to HART requesting an explanation or interpretation of Contract requirements as may be necessary, and shall conform to the interpretation given by HART.

HART reserves the right to charge the Contractor for HART’s costs incurred in providing answers that could have been reasonably ascertained by the Contractor.

2.7.1.5 Reference Information; Responsibility for Design.

HART has made available to Contractor the Contract Documents and Reference Materials. Contractor specifically acknowledges and agrees that Contractor is not entitled to rely on and has not relied on any documents or information provided by HART except to the extent specifically permitted or incorporated into the Contract Documents.

Contractor agrees that it has full responsibility for the design of the Project, regardless of the fact that certain preliminary design work occurred and was provided to the Contractor prior to the Proposal Date. The Contractor acknowledges and agrees that:

(a) The Technical Specifications and RFP Drawings are preliminary in nature and may contain errors, and may not be suitable as the basis for the final design.

(b) The Contractor has diligently reviewed and verified the Technical Specifications and RFP Drawings for errors, omissions, inconsistencies or other defects and has incorporated into the Contract Price all costs associated with correcting any such errors, omissions, inconsistencies and other defects.

(c) The Contractor is responsible for providing Construction Drawings and Construction Specifications that comply with the requirements of the Contract Documents.

2.7.2 Supervision

The Contractor shall supervise and be responsible to HART for acts and omissions of its manufacturers, suppliers, subcontractors and other Contractor-related entities utilized by the Contractor for this Project.

2.7.3 Regulatory and Third Party Approvals

2.7.3.1 The Contractor shall obtain and pay the costs of obtaining all regulatory and third party approvals required in connection with the Project (other than the HART-provided approvals), including obtaining, revising, modifying or amending regulatory and third party approvals required to implement any ATCs incorporated into the Contract Documents. Prior to beginning any construction activities in the field, the Contractor shall furnish HART with fully executed copies of all relevant regulatory and third party approvals. The Contractor shall undertake all actions required by and all actions necessary to maintain in full force and effect, all regulatory and third party approvals, including performance of all environmental mitigation measures required by the Contract Documents.

2.7.3.2 In the event that any regulatory or third party approvals required to be obtained by the Contractor must formally be issued in the name of HART, the Contractor shall undertake all efforts to obtain, including providing information requested by HART, and participating in meetings regarding such approvals.

2.7.3.3 The Contractor shall assist HART in obtaining HART-provided approvals and any other regulatory or third party approvals which HART may be obligated to obtain, including providing information requested by HART and participating in meetings regarding such approvals.

2.7.3.4 If the Contractor wishes to adopt any design or construction approach that would require a revision, modification or amendment to a HART-provided approval, the Contractor shall consult with HART and comply with the Value Engineering Cost Proposal (VECP) provisions of GCDB Section 7.1.8. The Contractor shall not implement any such approach unless concurrence of HART has first been obtained and arrangements have been made to reimburse HART for the costs of the proposed change. In addition to HART costs, Contractor shall be responsible for all other costs and delay associated with such modifications.

2.7.3.5 The Contractor shall include any revision, modification, or amendment of a regulatory or third party approval, if any, associated with a VECP.

2.7.3.6 Cooperation with Governmental Entities. The Contractor shall cooperate with HART and all other governmental entities with jurisdiction over the Project in performance of the Work, including but not limited to the City and County of Honolulu, the State of Hawaii Department of Transportation, the State of Hawaii Department of Health, and the Board of Water Supply.

2.8 Statutory or Ordinance Requirements

The Contractor shall at all times observe, perform, and comply with all federal, state and local laws or ordinances, rules and regulations which in any manner affect and apply to those engaged or

employed in the performance of the Work, the manufacture and sale of materials and equipment required under the Contract, 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. 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 HART in writing.

2.8.1 Professional Licensing Laws

HART will not contract for, pay for, or receive any design services which are in violation of any professional licensing laws, and by execution of the Contract, the Contractor acknowledges that HART has no such intent. The Contractor is fully responsible for compliance with the State of Hawaii professional licensing laws.

2.9 Taxes

The offeror or the Contractor shall include and be responsible for paying all taxes which shall be applicable to the goods, services or construction or the furnishing or sale thereof. The price proposal submitted by the offeror shall be inclusive of all taxes, and any subsequent increase in tax cannot be submitted for adjustment to the Contract price.

2.10 Indemnity

The Contractor shall indemnify and hold harmless and defend HART and the City, their officers, employees, and agents from and against any liability, damage, loss, cost, and expense, including reasonable attorneys' fees, and all claims, suits, and demands therefor arising out of or resulting from the negligent, reckless, intentional, or wrongful acts, errors, or omissions of the Contractor, the Contractor's employees, officers, agents, or subcontractors in the performance of the Contract or the Contractor's professional services, provided, however, that the Contractor shall not be responsible for such portion of damages, if any, caused by the negligence or intentional misconduct of HART or the City. This provision shall remain in full force and effect notwithstanding the expiration or earlier termination of the Contract.

2.11 Infringement Indemnification

If the Contractor uses or licenses any design, device, material, process, technology or any other intellectual property ("Intellectual Property") covered by patent, copyright, trademark or other intellectual property protection, the right for such use shall be procured by the Contractor from the appropriate owner. The Contractor shall defend, indemnify and hold HART and the City, and all their officers, agents, servants and employees harmless against all claims arising for infringement by reason of the use of any such Intellectual Property in connection with providing services under this Contract.

2.12 Liability

HART'S PAYMENT OBLIGATIONS UNDER THIS CONTRACT SHALL BE LIMITED ONLY TO THE PAYMENT FOR SERVICES UNDER THIS CONTRACT. IN NO EVENT SHALL HART BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES, INCLUDING BUT NOT LIMITED TO, LOST PROFITS, ARISING OUT OF OR IN CONNECTION WITH THIS CONTRACT.

2.13 Liquidated Damages

It is mutually understood and agreed by and between the parties to the Contract that time shall be of the essence and that in case of failure on the part of the Contractor to complete the Work by the Substantial Completion Date set forth in the Agreement, HART will be damaged thereby, and the amount of said damages, inclusive of expenses for inspection, superintendence, and necessary traveling expenses,

being difficult if not impossible of definite ascertainment and proof, it is hereby agreed that the amount of such damages shall be the amount set forth in the Contract as liquidated damages for each and every calendar day, including weekends and holidays, that the Contractor delays in finishing the Work beyond the Substantial Completion Date; and the Contractor hereby agrees to pay the said sum as liquidated damages, and not by way of penalty, to HART and further authorizes HART to deduct the amount of the damages from monies due the Contractor under the Contract. If the monies due the Contractor are insufficient or no monies are due the Contractor, the Contractor shall pay HART the difference or the entire amount, whichever may be the case, upon demand by the Contracting Officer.

2.14 Ownership of Results

(a) **Ownership of Results.** All work products developed or prepared by the Contractor under the Contract, including deliverables, materials, or documents are the property of HART, and all right, title, and interest therein shall vest exclusively in HART.

(b) **Contractor's Right to Copies.** While any interests of the Contractor or its subcontractors, in drawings, plans, specifications, studies, memoranda, computation sheets, computer files, and media or other documents prepared by the Contractor or its subcontractors in connection with services to be performed under this Contract, shall become the property of and will be transmitted to HART, the Contractor may retain and use of copies for references and as documentation of its experience and capabilities.

2.15 Wages and Hours

(a) Contractors shall observe and comply with all the provisions of Chapter 104, HRS, relating to wages and hours of employees on public works. The Contractor shall pay all employees on any contract with HART, the minimum basic wage rate in conformance with applicable Federal and State laws.

(b) **Minimum Wages.** The minimum wage shall be periodically increased during the performance of the Contract in an amount equal to the increase in the prevailing wages for those kinds of work as periodically determined by the State Director of Labor and Industrial Relations. Notwithstanding the provisions of the original contract entered into, if the Director of Labor and Industrial Relations determines that the prevailing wage has increased, the rate of pay of laborers and mechanics on the contract shall be raised accordingly. No additional compensation shall be made to the Contractor for failing to consider increases of the minimum wage during the duration of the Contract.

(c) **Overtime Work.** No laborer or mechanic employed on the job site shall be permitted or required to work on a Saturday, Sunday, or a legal holiday of the State or in excess of eight hours on any other day unless the laborer or mechanic receives overtime compensation for all hours worked on a Saturday, Sunday, and a legal holiday of the State or in excess of eight hours on any other day. For purposes of determining overtime compensation under this subsection, the basic hourly rate of any laborer or mechanic shall not be less than the basic hourly rate determined by the Director of Labor and Industrial Relations to be the prevailing basic hourly rate for corresponding classes of laborer and mechanics on projects of similar character in the State.

(d) **Certified Payrolls.** The Contractor shall provide payroll and required fringe benefit information on a weekly basis, using the HART-designated labor compliance web-based program. The Contractor's submittal of the payroll/fringe benefits reporting through the labor compliance web-based program shall be deemed a submission of certified copies of the same. HART will not accept payroll/fringe benefit reporting in paper form; the Contractor must provide the information using the labor compliance web-based program. The fringe benefit reporting shall include the cost of fringe benefits paid by the general contractor and all subcontractors and shall include the following itemization:

- (1) Health and welfare benefits;
- (2) Pension and annuity benefits;
- (3) Vacation benefits;
- (4) Continuing education and training benefits; and
- (5) Other fringe benefit costs paid by the general contractor or subcontractor.

The Contractor shall be responsible for the submission of the payrolls of all subcontractors. The Contractor, in providing such information, shall be certifying that the payrolls are correct and complete, that the wage rates contained therein are not less than the applicable rates contained in the wage determination decision of the Director of Labor and Industrial Relations, and the classifications set forth for each laborer or mechanic conform with the work the laborer or mechanic performed. The payrolls shall contain the name of each employee, the employee's correct classification, rate of pay, the itemized fringe benefit reporting form pursuant to above, daily and weekly numbers of hours worked on this project as well as hours performed on other projects, deductions made and actual wages paid.

(e) **Maintain Payroll Records.** Payroll records for all laborers and mechanics working at the site of the Work shall be maintained by the Contractor and its subcontractors, during the course of the Work and preserved for a period of three years upon completion of the Contract. The records shall contain the name of each employee, the employee's correct classification, rate of pay, daily and weekly numbers of hours worked, deductions made and actual wages paid.

(f) **Availability of Payrolls.** The Contractor shall make payroll records available for examination within ten (10) days from the date of a written request by a governmental agency or any authorized representative thereof. Any contractor who (1) fails to make payroll records accessible within ten (10) days, (2) fails to provide information requested for the proper enforcement of this chapter within ten (10) days, or (3) fails to keep or falsifies any record required under this chapter, shall be assessed a penalty as provided in HRS Section 104-22(b).

(g) **Violations.** If HART 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, or has not received the laborer's or mechanic's full overtime compensation, the Officer-in-Charge may take appropriate action in accordance with HRS Section 104-21, or the Officer-in-Charge may, by written notice to the Contractor, terminate the Contractor's right, or the right of any subcontractor, to proceed with the Work or with the part of the Work in which the required wages or overtime compensation have not been paid and may complete such part of the Contract or otherwise, and the Contractor and its sureties shall be liable to HART for any excess costs occasioned thereby.

(h) **Post Wage Schedule.** The Contractor is required to post the applicable wage schedule in a prominent and easily accessible place at the job site. The Contractor shall give to each laborer and mechanic employed under the Contract a copy of the rates of wages required to be posted.

(i) **Federally Funded or Federally Assisted Projects.** On federally funded or federally assisted projects, the current federal wage rate determination in effect at the time of advertising the solicitation documents is incorporated as part of the Contract, and both Federal and State wage rates shall apply. Where rates for any class of laborers and mechanics differ, the higher rates shall prevail. The minimum federal wage rates shall be those in the U. S. Department of Labor Wage Determination Decision and Modifications in effect ten (10) days prior to the bid opening date.

A copy of the wage rate determination (including any additional classification and wage rate conformed under 29 CFR Section 5.5a (1)(ii)) and Davis-Bacon poster (WH-1321) shall be posted at all times at the site of work in a prominent and accessible place where it can be easily seen by the workers.

(j) **Employee Interviews.** HART and the State of Hawaii Department of Labor and Industrial Relations may interview employees during working hours on the job. The Contractor may be assessed penalties in accordance with HRS Section 104-22(b) if it fails to allow employees to be interviewed.

(k) **Failure to Comply.** Failure to comply with the requirements of this Section may result in disqualification from bidding or submitting proposals on future projects.

(l) **Inclusion in Subcontract.** The Contractor shall include this Section in every subcontract for work under this Contract.

(m) **Labor Stabilization Agreements.** On November 17, 2009, HART entered into the Rapid Transit Stabilization Agreement and Rapid Transit Stabilization Agreement Hawaii Building and Construction Trades Council Affiliates, respectively attached as Attachments B and C to the General Conditions and collectively referred to as the Rapid Transit Stabilization Agreements (“RTSA”) to ensure timely and efficient completion of the Project without delay due to labor disputes and to establish uniform working conditions for all signatory construction trades and crafts. The awarded Offeror and all subcontractors at any tier identified in the Offeror’s Final Proposal shall agree to be bound by the terms of the RTSA by executing the respective Letters of Assents attached to Attachments B and C of the General Conditions. It shall be the continuing obligation of the Contractor to obtain executed Letters of Assent from all subcontractors at any tier. The Contractor is not required to obtain executed Letters of Assent from subcontractors that are retained solely to perform work specified in Section 3.3 of the RTSA.

2.16 Apprenticeship Program Preference Contract Administration

(a) If applicable, the duration of a construction contract awarded utilizing the apprenticeship preference, the Contractor shall certify each month that work is being conducted on the project and that it continues to be a participant in the relevant apprenticeship program for each trade it employs.

(b) Monthly certification shall be made on Monthly Certification Form 2 prepared and made available by the Hawaii State Department of Labor and Industrial Relations, be a signed original by the respective apprenticeship program sponsor’s authorized official, and submitted by the Contractor with its monthly payment requests.

(c) Should the Contractor refuse to submit its monthly certification forms of, at any time during the construction of the Project, cease to be a party to a registered apprenticeship agreement for each apprenticeable trades the Contractor employs, or will employ, the Contractor will be subject to the following sanctions:

- (1) Withholding of the requested payment until the required form(s) are submitted;
- (2) Temporary or permanent cessation of work on the Project, without recourse to breach of contract claims by the Contractor, provided the agency shall be entitled to restitution for nonperformance or liquidated damages claims; or
- (3) Debarment or suspension pursuant to HRS Section 103D-702.

(d) If events such as “acts of God,” acts of a public enemy, acts of the State or any other government body in its sovereign or contractual capacity, fires, floods, epidemics, freight embargoes, unusually severe weather, 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. [HRS §103-55.6]

2.17 Sexual Harassment Policy Requirements

(a) Compliance with Revised Ordinances of Honolulu Section 1-18.4 (City Ordinance 93-84) on sexual harassment is required of all contractors. All contractors shall have and enforce a policy prohibiting sexual harassment. The Contractor's sexual harassment policy must set forth the same or greater protection than those contained or required by the ordinance. The ordinance includes the following:

- (1) Prohibitions against an officer's or employee's sexual harassment of the following:
 - (A) Another officer or employee of the employer;
 - (B) An individual under consideration for employment with the employer; or
 - (C) An individual doing business with the employer.
- (2) A provision prohibiting a management or supervisory officer or employee from knowingly permitting a subordinate officer or employee to engage in the sexual harassment prohibited under subdivision (1);
- (3) A prohibition against retaliation towards an officer, employee, or individual who has complained of sexual harassment, conducted an investigation of a complaint, or acted as a witness during an investigation of a complaint;
- (4) A prohibition against a malicious false complaint of sexual harassment by an officer, employee, or individual;
- (5) Provisions allowing an officer, employee, or individual to make a sexual harassment complaint to an appropriate management, supervisory, or personnel officer or employee;
- (6) Procedures for investigating a sexual harassment complaint in an unbiased, fair, and discreet manner with appropriate safeguards to maintain confidentiality and protection from embarrassment;
- (7) A provision requiring the use of the "reasonable person of the same gender standard," to determine if sexual harassment has occurred. Under the standard, sexual harassment shall be deemed to have occurred if the alleged offender's conduct would be considered sexual harassment from the perspective of a reasonable person of the same gender as the alleged victim. If the alleged victim is a woman, the "reasonable person of the same gender standard" shall be equivalent to and may be called the "reasonable woman standard;"
- (8) Disciplinary actions which may be imposed on an officer or employee who committed a prohibited act; and
- (9) For an employer with at least five (5) employees, a provision requiring the annual viewing of a video on the sexual harassment policy by each management or supervisory officer or employee.

(b) The policy required under this Section shall be in effect for at least the duration of the Contract.

(c) The action of the bidder or proposer in submitting its bid, proposal or signing of the contract shall constitute its pledge and acceptance of the provisions for the sexual harassment policy as required by Revised Ordinances of Honolulu Section 1-18.4 (City Ordinance 93-84).

2.18 Campaign Contributions by State and County Contractors Prohibited

Compliance with HRS Section 11-355, relating to prohibition of campaign contributions is required.

2.19 Confidential or Proprietary Information of HART.

The Contractor understands and agrees that, in the performance of Work under this Agreement or in contemplation thereof, the Contractor may have access to private or confidential communication or information which may be owned or controlled by HART and that such communication or information may contain confidential or proprietary details, the disclosure of which to third parties may be damaging to HART, its personnel, consultants or other stakeholders. The Contractor agrees that all such information disclosed by HART to the Contractor shall be held in confidence and used only in the performance of this Agreement. The Contractor shall exercise the same standard of care to protect such information as a reasonably prudent contractor would use to protect its own confidential or proprietary data.

2.20 Personal Information Protection (HRS Chapter 487R)

(a) **Definition.** The terms as used in this Section have the following meaning:

“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 Hawai’i 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” mean the technology and the policy and procedures for use of the technology to protect and control access to personal information.

(b) **Confidentiality of Material.**

- (1) All material given to or made available to the Contractor by HART by virtue of this Contract, which consists of personal information, shall be safeguarded by the Contractor and shall not be disclosed without the prior written approval of HART.
- (2) The Contractor agrees not to retain, use, or disclose personal information for any purpose other than as permitted or required by this Contract.
- (3) The Contractor agrees to implement appropriate technological safeguards that are acceptable to HART to reduce the risk of unauthorized access to the personal information.
- (4) The Contractor shall report to HART in a prompt and complete manner any security breaches involving personal information.
- (5) The 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) The Contractor shall complete and retain a log of all disclosures made of personal information received from HART, or personal information created or received by the Contractor on behalf of HART.

(c) **Security Awareness Training and Confidential Agreements.**

- (1) The 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) The 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 to this Contract.

(d) **Termination for Cause.** In addition to any other remedies provided for by this Contract, if HART learns of a material breach by the Contractor of this paragraph by the Contractor, HART 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 HART 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, the Contractor shall pursuant to Chapter 487R, HRS, destroy all copies (paper or electronic form) of personal information received from HART.
- (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 HART, and any cost or pricing data, for three (3) years after the date of final payment under the Contract. The personal information shall continue to be confidential and shall not be disclosed without the prior written approval of HART. After the three (3) year retention period has ended, the files, books, and records that contain personal information shall be destroyed pursuant to Chapter 487R, HRS.

2.21 Audit and Inspection of Records

The Contractor agrees to maintain and make available to HART, during regular business hours, accurate books and accounting records relating to its work under this Contract. The Contractor will permit HART to audit, examine and make excerpts and transcripts from such books and records, and to make audits of all invoices, materials, payrolls, records or personnel and other data related to all other matters covered by this Contract. The Contractor shall maintain such data and records in an accessible location and condition for a period of not less than three years after final payment under this Contract or

until after final audit has been resolved, whichever is later. HART acknowledges that the documents and records presented for inspection may be the Contractor's confidential information.

2.22 Confidentiality with the News Media and Public

When dealing with the news media or the public, the Contractor is expected to be circumspect and to treat all matters falling within the scope of the Contract with the utmost confidentiality. The Contractor shall consult with and/or obtain the consent of the Officer-in-Charge prior to having conversations with or giving public interviews to the news media or any other members of the public.

2.23 Governing Law and Venue

The provisions of the Contract shall be interpreted in accordance with the laws of the State of Hawaii as those laws are construed and amended from time to time. All disputes arising out of or relating to this Contract shall be subject to the jurisdiction and venue of the State and Federal courts in Honolulu, Hawaii. All discovery between the parties undertaken pursuant to Federal, State, or local rules shall be conducted in Honolulu, Hawaii, including, but not limited to, the production of documents and the appearance of expert and lay witnesses for deposition, if such depositions are permitted by court rules. In the event of a dispute, the Contractor and HART agree to bear the costs of producing their own employees for deposition in Honolulu, Hawaii, including but not limited to travel costs, per diem expenses, and cost of employee time. The parties further agree that if court rules or the court itself permits the deposition of expert witnesses, the party seeking the testimony of the expert witness will bear that witness' reasonable costs of travel, preparation costs and cost for time while in transit.

2.24 Severability

If any term, condition, provision, covenant, or agreement of the terms hereunder or under the Contract or the application thereof to any person or circumstance is rendered or held invalid, illegal, or unenforceable under the laws of the State of Hawaii or the United States, such part of the terms hereunder or under the Contract that shall have been rendered or held to be invalid, illegal, or unenforceable shall not affect the validity of the terms hereunder or under the Contract as a whole or the remainder of the terms hereunder or under the Contract and the application of such part to other persons and circumstances, but shall be given effect and enforced without such part to the greatest extent permitted by applicable law.

2.25 Counterparts

This Agreement and corresponding Amendments, Change Orders and all other Modifications may be signed in duplicate originals, or in separate counterparts, which are effective as if the Parties signed a single original. A facsimile or .pdf of an original signature version transmitted to the other Party is effective as if the original was sent to the other Party.

END OF CHAPTER

Chapter 3 – Modifications and Termination

3.1 Change Orders / Price Adjustments

Sections 3.1 through 3.3 set forth the requirements for obtaining all Change Orders under the Contract. Contractor waives the right to make any claim for a time extension or for any monetary compensation in addition to the Contract Price and other compensation specified in the Contract Documents, except as permitted in Sections 3.1 through 3.3.

(a) **Change Order.** HART may at any time, without notice to any surety, in a signed writing designated or indicated to be a change order, may make changes in the Work within the scope of the Contract as may be found to be necessary or desirable. Such changes shall not invalidate the Contract or release the sureties, and the Contractor will perform the Work as changed, as though it had been part of the original Contract. Minor changes in the Work may be directed by HART with no change in Contract price or time. The Contractor's cost of responding to requests for price or time adjustments, including but not limited to, preparing the Contractor's cost proposal, is included in the Contract price and no additional compensation will be allowed. If the Contractor believes a change order justifies an increase in Contract price or Contract time, it must follow the notice requirements set forth in this Section.

(b) **Claims Based on Oral Directives.** Any oral order, direction, instruction, interpretation or determination from HART which, in the opinion of the Contractor, causes any change, can be considered as a change only if the Contractor gives HART oral notice no later than noon of the following work day of its intent to treat such oral order, direction, instruction, interpretation or determination as a change requiring adjustment, followed by a written notice of potential claim within five (5) days after providing oral notice. The written notice shall state the date, circumstances, source of the order that the Contractor regards as a change requiring adjustment, and provide detailed justification for additional compensation or time. The timely written notice may not be waived and shall be a condition precedent to the filing of a claim by the Contractor. Unless the Contractor acts in accordance with this procedure, any oral order shall not be treated as a change, and the Contractor waives any claim for an increase in the Contract time or price related to the Work.

If the Contractor objects to HART's refusal to issue a change order, it shall file a written protest with HART within thirty (30) days after delivery to HART 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 in accordance with the disputes provisions under Chapter 6 of the General Conditions, Claims Procedures, Disputes and Remedies.

(c) **Unilateral Change Order.** In the event the parties cannot come to an agreement, HART, at its sole discretion, may issue a unilateral change order. In such an event, the Contractor shall continue to provide timely services, provided, however, that HART makes provisional adjustments in payment and/or time for performance of the changed work as may be reasonable in accordance with HRS Section 103D-501(b)(5). Within thirty (30) days after receipt of a Unilateral Change Order, the Contractor shall file a notice of intent to assert a claim for an adjustment. The requirement for filing a timely written notice shall be a condition precedent to the assertion of a claim.

(d) **Changed or Extra Work Performed Without Change Order.** To the extent that the Contractor undertakes performance of any changed or extra work outside the process set forth herein, the Contractor shall be deemed to have performed such work voluntarily and shall not be entitled to a Change Order in connection therewith. In addition, Contractor may be required to remove or otherwise undo any such work, at its sole cost.

3.2 Changed Cost Proposal or Contractor Proposed Costs (CPC)

At any time, HART may request a CPC from the Contractor for contemplated changes in the Work and the Contractor shall provide the CPC within fourteen (14) days upon receipt of HART's request.

(a) **Request for Change.** Upon HART's issuance of a Request for Change (RFC), the Contractor shall submit a CPC within fourteen (14) days of receipt of the RFC. This request, however, is not a directive for the Contractor to perform the work described therein.

(b) **CPC Requirements.** The CPC shall provide a cost estimate that includes a detailed cost breakdown for material, equipment, and labor, including the addition or reduction of time. The CPC shall also include the Contractor's and subcontractors' cost breakdown in acceptable detail. An executed copy of Exhibit H of the General Conditions, Certification of Cost and Pricing Data, must accompany the CPC. In the event the CPC is not submitted within the specified period, HART may direct the Contractor to proceed with the Work by issuing a Unilateral Change Order instructing the Contractor to proceed with the Work based on HART's estimate of the cost and/or time extension.

HART may accept the entire CPC or any discrete cost item contained in the CPC or the proposed adjustment to Contract time by notice in writing to the Contractor within thirty (30) days after receipt of the CPC. This request, however, is not a directive for the Contractor to perform the work described therein.

3.3 Price Adjustment

(a) **Price Adjustment Methods.** Any adjustment in Contract price pursuant to a clause 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;
- (2) By unit prices specified in the Contract or subsequently agreed upon before commencement of the pertinent performance;
- (3) By the costs attributable to the events or situations under such clauses with adjustment of profit or fee, all as specified in the Contract or subsequently agreed upon before commencement of the pertinent performance;
- (4) Work that is paid for on a force account basis will be in accordance with the requirements specified in the Contract (Chapter 5 of the General Conditions).
- (5) In any other manner as the parties may mutually agree upon before commencement of the pertinent performance; or
- (6) In the absence of agreement between the parties the provisions of HRS Section 103D-501(b)(5), shall apply.

(b) **Submission of Cost or Pricing Data.** The Contractor shall be required to submit cost or pricing data if any adjustment in Contract price is subject to the provisions of HRS Section 103D-312 or if HART deems it necessary. The submission of any cost or pricing data shall be subject to the provisions of HAR Chapter 3-122, subchapter 15. Costs will be allowable only to the extent that costs or cost estimates are consistent with Federal cost principles set forth in Federal Acquisition Regulations (FAR) Part 31 and Office of Management and Budget (OMB) Circular A-87. HART may impose more restrictive allowance criteria at HART's sole discretion. The Change Cost Proposal supported by cost and/or pricing data shall be submitted on a timely basis as provided for under the relevant clauses of the Contract.

(c) **Maximum Allowable Overhead and Profit in Price Adjustments.** In determining the adjustment in price to HART resulting from a change, the allowances for all overhead, extended overhead resulting from adjustments to contract time (including home office and branch office overhead), consistent with FAR Part 31 cost principles, and profit combined shall not exceed the percentages set forth below:

- (1) For the Contractor, for any work performed by its own forces up to twenty percent (20%) of the cost of the change;
- (2) For each subcontractor involved, for any work performed by its own forces up to twenty percent (20%) of the cost of the change; and
- (3) For the Contractor or any subcontractor, for work performed by their subcontractors up to ten percent (10%) of the amount due the performing subcontractor for the change.

Not more than three line item percentages for fee and overhead, not to exceed the maximum percentages shown above, will be allowed regardless of the number of tier subcontractors.

(d) **Claim Barred after Final Payment.** No claim for an adjustment under this Contract shall be allowed after final payment is made for this Contract.

3.3.1 Matters Not Eligible for Price Increase

Matters which are Contractor's exclusive cost responsibility include, without limitation, the following:

- (a) Errors, omissions, inconsistencies or other defects in the Construction Drawings and Construction Specifications, including errors, omissions, inconsistencies or defects traceable to errors, omissions, inconsistencies or defects in the Prescriptive Requirements, Guidance Materials, or any Reference Materials provided with the RFP;
- (b) Any design changes requested by HART as part of the process of approving the Construction Drawings and Construction Specifications for consistency with the requirements of the Contract Documents, including any design changes relating to Project safety (except to the extent that they arise from a change in law, in which case the costs associated therewith may be payable pursuant to the *force majeure* provisions hereof);
- (c) Defective or incorrect schedules of Work prepared by the Contractor or changes in the planned sequence of performance of the Work;
- (d) Action or inaction of subcontractors;
- (e) action or inaction of other contractors, including failure to organize and integrate their work with the Contractor's Work;
- (f) Groundwater levels or subsurface moisture content;
- (g) Untimely delivery of equipment or material, or unavailability or defective equipment or material or increases in costs of material, equipment or products specified by the Contract Documents;
- (h) Delay or disruption damages due to delays not on a Critical Path;
- (i) Correction of Nonconforming Work and review and acceptance thereof by HART (including rejected design submittals);
- (j) All costs covered by insurance proceeds received by or on behalf of Contractor;

- (k) Failure by Contractor to comply with Contract requirements (including the failure to provide notifications to property owners, Utility owners, and others required by the Contract Documents);
- (l) Weather-related delays, except as identified as *force majeure*;
- (m) Delay-related costs associated with other situations which, while not within one of the categories listed above, were or should have been anticipated because such situations are referred to elsewhere in the Contract or arise out of the nature of the Work; and
- (n) All other events beyond HART's control for which HART has not agreed to assume liability.

3.4 Suspension of Work

(a) **Suspension of Work.** The Officer-in-Charge may, by written order, suspend the work, either in whole or in part for periods as the Officer-in-Charge may deem necessary for any cause, including but not limited to:

- (1) Weather or soil conditions considered unsuitable for prosecution of the Work;
- (2) Failure on the part of the Contractor to:
 - (A) Correct conditions unsafe for the general public or for the workers;
 - (B) Carry out orders given by the Officer-in-Charge;
 - (C) Perform the work in strict compliance with the provisions of the Contract; or
 - (D) Provide adequate supervision on the jobsite.
- (3) Whenever a redesign that may affect the work is deemed necessary by the Officer-in-Charge;
- (4) Unacceptable noise or dust arising from the construction even if it does not violate any law or regulation; or
- (5) The convenience of HART.

(b) **Partial and Total Suspension.** Suspension of work on some but not all items of work shall be considered a "partial suspension." Suspension of work on all items shall be considered "total suspension." The period of suspension shall be computed from the date set out in the written order for work to cease until the date of the order for work to resume.

(c) **Reimbursement to Contractor.** In the event that the Contractor is ordered by the Officer-in-Charge in writing as provided herein to suspend all or part of the work under the Contract in accordance with subsections (a)(1), (3)-(5) of the "suspension of work" paragraph, the Contractor may be reimbursed for actual money expended toward the Project during the period of suspension, provided that the Contractor mitigates its costs during the suspension period to allow for only those necessary costs. No allowance will be made for anticipated profits or damages.

(d) **Cost Adjustment.** If the performance of all or part of the Work is suspended for reasons beyond the control of the Contractor, an adjustment shall be made for any increase in the cost of performance of the Contract (excluding profit) necessarily caused by such suspension, and the Contract modified in writing accordingly. However, no adjustment under this Section shall be made for any suspension in the following circumstance or event:

- (1) 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

- (2) For which an adjustment is provided for or excluded under any other provision of the Contract.

(e) **Claims for Adjustment.** Claims for compensation shall be filed in writing with the Officer-in-Charge within thirty (30) days after the date of the order to resume work or the claims will not be considered. Together with the claim, the Contractor shall submit substantiating documents covering the entire amount shown on the claim. The Officer-in-Charge shall take the claim under consideration and may make such investigations as are deemed necessary and shall be the sole judge as to the equitability of the claim and the Officer-in-Charge's decision will be issued within sixty (60) days of receipt by HART of Contractor's claim. The Officer-in-Charge's decision shall be final.

(f) **No Adjustment.** No provision of this Section shall entitle the Contractor to any adjustments for delays due to failure of surety, for suspensions made at the request of the Contractor, for any delay required under the Contract, for suspensions, either partial or whole, made by HART under the provisions in GCDB Section 3.4(a)(2).

(g) **Contractors Responsibilities Under Suspension of Work.** In case of suspension in the performance of the Work under the Contract from any cause whatsoever, the Contractor in addition to being responsible for performing the Work under the Contract shall:

- (1) Continue to indemnify and save HART and its officers and employees harmless from liability for any injury or damage occurring during the period that the performance of the Contract is suspended;
- (2) Be responsible for all materials and equipment delivered to the site of the Project, including materials and equipment for which the Contractor has received partial payment;
- (3) Properly store the materials and equipment which have been partially paid for by HART or which have been furnished by HART;
- (4) Remove immediately as directed by the Officer-in-Charge all surplus materials, equipment, and rubbish;
- (5) Neatly and compactly store all materials and equipment on the site of Project within public highways or streets so as not to impede traffic or interfere with the use of public utilities or facilities;
- (6) Provide suitable drainage and erect such temporary structures as are necessary to protect the Project or parts of the Project from damage;
- (7) Properly and continuously maintain in an acceptable growing condition all living material in newly established plantings, seedlings, and sodding furnished under this Contract; and
- (8) Continue to maintain required liability insurance coverages.

(h) **Standby Equipment Rates.** The Contractor's cost adjustment for standby equipment during the suspension period shall not exceed fifty percent (50%) of the ownership rental rates provided in the Rental Rate Blue Book ("Blue Book"). Standby time should not exceed eight (8) hours per day, forty (40) hours per week, or the annual usage hours as established in the Blue Book.

(i) **Time Adjustment.**

- (1) When the performance of Work is totally suspended by the Officer-in-Charge for one or more days in accordance with paragraphs (1), (3) and (5) of GCDB Section 3.4(a),

the Contract Completion Date shall be revised accordingly, subject to GCDB Section 3.4(i)(4).

- (2) During periods of partial suspension of Work, subject to GCDB Section 3.4(i)(4), the Contractor will be granted an extension of time only if the partial suspension affects the final completion date of the Contract. If the Contractor feels that an extension of time is justified, the Contractor must promptly notify HART in writing that the partial suspension will affect the critical operations in progress.
- (3) The Officer-in-Charge shall evaluate all time extension requests and shall ascertain the facts and the extent of time involved, and the Officer-in-Charge's findings of facts shall be final and conclusive.
- (4) No time extension will be considered for the following:
 - (A) Delays or suspension of work due to the fault of the Contractor, including the causes listed in GCDB Section 3.4(a)(2);
 - (B) Delays in arrival of materials and equipment due to the fault of the Contractor, its subcontractor or supplier in ordering, fabricating, delivery, etc.;
 - (C) Delays caused by changes which the Officer-in-Charge determines unjustifiable due to the lack of supporting evidence because the change is of such nature that the final completion date will not be affected;
 - (D) Delays caused by the failure of the Contractor to submit, on a timely basis, for approval by the Officer-in-Charge, shop drawings, descriptive sheets, material samples, color samples, and other required submissions, except as covered in GCDB Section 3.8(b), Delays Due to Causes Beyond Contractor's Control/*Force Majeure*;
 - (E) Failure to submit requests for clarification on a timely basis to avoid impacting the Project Schedule;
 - (F) Delays by subcontractors or suppliers at any tier unless it can be shown that the delay was unforeseeable and not caused by any failure or neglect on the part of the subcontractor or supplier;
 - (G) Delays that affect the Contractor's planned early completion, but do not affect the specified or adjusted Contract Time;
 - (H) Shortages of materials or equipment if the supplies, services, or equipment were obtainable from other sources in sufficient time to permit the Contractor to meet the required schedule;
 - (I) Financial difficulties; and
 - (J) Lack of know-how or other inability to perform.

3.5 Variations in Estimated Quantities

(a) **Variations Requiring Adjustments.** Where the quantity of a Pay Item in the Contract is an estimated quantity and where the actual quantity of such pay item varies more than fifteen percent (15%) above or below the estimated quantity stated in the 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. If the quantity variation is such as to cause an increase in the time

necessary for completion, the Officer-in-Charge shall, upon receipt of a timely written request for an extension of time, prior to final payment of the Contract, ascertain the facts and make such adjustment for extending the completion date as in the judgment of the Officer-in-Charge the findings justify.

(b) Any adjustment in the Contract price shall be in accordance with the price adjustment provisions of the Contract.

(c) **Eliminated Items**

(1) Should any Work required by the Contract be found unnecessary, HART may, upon written order to the Contractor, eliminate such items from the Contract.

(2) When the Contractor is notified of the elimination of Work, the Contractor will be paid for the actual Work done up through the date of notification.

3.6 Differing Site Conditions; Surface and Subsurface Conditions

(a) **Differing Site Conditions (DSC)**

(1) The Contractor, during the performance of its engineering design phase Work, shall undertake the necessary site observations, geotechnical borings and test pits, field and laboratory testing, and other prudent investigations to determine the existing surface and subsurface conditions of the site, and shall promptly, but not more than five (5) days from the date the Contractor first becomes aware of the condition, notify HART (“Initial Notification of DSC”) in writing of:

(A) Subsurface or latent physical conditions at the site differing materially from those indicated in the HART-provided Geotechnical Data Reports (“GDR-HART”);
or

(B) 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 the Contract or Contract-related documents.

(2) Upon giving a written Initial Notification of DSC, except in the instance of hazardous materials (see GCDB Section 7.17), the Contractor shall proceed with its design phase Work without further delay.

(3) The Contractor shall subsequently complete its additional geotechnical investigations, including field and laboratory testing, perform requisite data analysis, prepare its final data report, and complete its interpretation of the geotechnical data supporting the Contractor’s geotechnical design and construction recommendations (Geotechnical Data Report – Design-Builder (GDR-DB)) and Geotechnical Engineering Report – Design-Builder (GER-DB)), prior to the Contractor filing a written notice of a “Differing Site Conditions.” The written notice of a Differing Site Condition shall be submitted to HART not more than seven (7) days from the date that HART has formally accepted the Contractor’s GDR-DB and GER-DB.

(4) Upon giving written notification of a Differing Site Condition, except in the instance of hazardous materials (see GCDB Section 7.17), the Contractor shall proceed with its construction phase Work without further delay. If additional recovery is sought, the Contractor shall prepare and submit a Geotechnical & Foundation Design Differences Report (GFDDR) not later than seven (7) days after giving written notice of the Differing Site Condition. The GFDDR documents the Contractor’s assessment of the variations and differences from the GDR-HART and provides a summary of the Contractor’s assessment of impacts to the foundation design and construction, which shall include:

- (A) The condition prompting the Notice;
- (B) The basis upon which the condition is alleged to be concealed or unknown;
- (C) Elevations of soil strata, top of rock, and groundwater at each deep foundation location where DSC has been identified;
- (D) Differing properties from GDR-HART;
- (E) An explanation of how these changes affect the Contractor's foundation type, size or length, and equipment means and methods; and
- (F) The adjustments sought by the party providing the Notice.

(5) The OIC or designee will make a determination as to whether the Contractor meets the standard for "differing site conditions" as set forth herein and is, therefore, entitled to recovery for a "differing site condition." The OIC or designee, in making the determination, will investigate the site and consider factors including whether the Contractor has demonstrated that the conditions indicated in the Contract or Contract-related documents differ "materially" from those actually encountered during performance; whether the conditions actually encountered were reasonably unforeseeable based on all information available to the Contractor at the time of its Price Proposal; the Contractor reasonably relied upon its interpretation of the Contract and Contract-related documents; and whether the Contractor was damaged as a result of the *material* variation between the expected and encountered conditions. No claim of the Contractor shall be allowed under this clause, unless the Contractor has given the required written notice and request for approval within the time period set forth herein. No claim by the Contractor for an adjustment hereunder shall be allowed if asserted after the final payment under the Contract. Nothing contained in this clause shall be grounds for an adjustment in compensation if the Contractor had actual knowledge of the existence of such conditions prior to the submission of its Price Proposal.

(b) Examination of the Site of Work and Contract Documents. By executing the Agreement, the Contractor represents that it has carefully examined and investigated the site(s) of the Work, including material site(s), and the Contract Documents. The submission of its Proposal shall be conclusive evidence that the Contractor represents and acknowledges that it has made such examinations and investigations, including the character, quantity, quality, and scope of the Work, the quantities and qualities of the materials to be supplied, the character of the site(s), and equipment and labor to be used, the requirements of the Contract Documents and how all such requirements correlate to the conditions of the Work site(s)

(c) HART representations. HART will make available to the Contractor geotechnical information in HART's possession, including geotechnical data reports, other geotechnical reports, and geotechnical samples obtained or prepared for the HRTTP. The geotechnical reports include interpretations to the character of material encountered during investigations. Geotechnical information in the Geotechnical Data Reports and other geotechnical reports is based on subsurface conditions at the location and time when the investigations were performed and subsurface conditions may vary between investigations. The Contractor shall account for such variations in its Work. HART will assume no responsibility of the sufficiency the information provided in representing the conditions throughout the work Site or the interpretations to the character of the material encountered. In addition, no assurance is given that conditions found at the time of the subsurface explorations, such as the presence or absence of water, will be the condition at the time of construction. The Contractor shall perform its own investigations and engineering and shall not rely upon the HART-provided geotechnical information as the sole basis for its design.

3.7 Assignment of Monies; Successor-in-Interest; Notation or Change of Name

(a) **No assignment.** No contract entered into between HART and the Contractor is transferable, or otherwise assignable, without the written consent of the Chief Procurement Officer or his designee, provided that the Contractor may assign monies receivable under a contract after due notice to HART.

(b) **Recognition of a successor-in-interest; assignment.** When in the best interest of HART, a successor-in-interest may be recognized in an assignment agreement in which the transferor, the transferee and HART shall agree that:

- (1) The transferee assumes all of the transferor's obligations;
- (2) The transferor remains liable for all obligations under the Contract as against HART; and
- (3) The transferor shall continue to furnish, and the transferee shall also furnish, all required bonds.

(c) **Change of Name.** When a contractor requests to change the name in which it holds a contract with HART, the Contracting Officer responsible for the contract shall, upon receipt of a document indicating such change of name (for example, an amendment to the articles of incorporation of the corporation), enter into an agreement with the requesting contractor to effect such a change of name. The agreement changing the name shall specifically indicate that no other terms of the contract are thereby changed. HART shall not be obligated to accept the change of name, should such a change affect any of the terms and conditions of the Contract.

3.8 Delays and Time Extensions; Force Majeure

3.8.1 Mitigation of Delays

Contractor shall mitigate delay to the Project in all circumstances, to the extent reasonably possible including by resequencing, reallocating or deploying its forces to other Work, as appropriate. For any delay for which Contractor requests a time extension, the Contractor shall, within 15 days or receipt of a request from HART, submit to HART a mitigation plan, including a schedule analysis, which explains how the impact can be mitigated. Contractor shall also include a detailed cost breakdown of the labor, equipment and material required to mitigate the delay. HART will review and comment on the mitigation plan. HART will respond within 15 days, and will advise Contractor whether the mitigation plan is accepted, accepted with comments, or rejected.

3.8.2 Delays and time Extension

(a) Delays and Time Extensions.

- (1) The Contractor should anticipate that some reasonable delays, including those caused by normal weather patterns, will occur. The Contractor shall not be entitled to any compensation, delay damages, or extension in time for such reasonable delays. Time extensions will be allowed only to the extent that completion of the Work is unreasonably delayed through no fault of the Contractor, which must, in all cases, be substantiated by impact to the critical path on the Project schedule. The Contractor shall not be in default for failure to meet the milestones set forth in the most current Project schedule if such delay is caused by reason of increase in scope of work directed solely by HART *and* only if the changes are on the critical path and affect the final completion date of the Contract.

(A) The Contractor shall notify HART in writing immediately of all anticipated delays in the performance of the Work and, in any event, not less than twenty-four (24) hours from the occurrence of a delay.

(B) **Compensable Delay.** For compensable delay caused solely by HART action or omission, where there was no concurrent delay on the part of the Contractor, including mitigating further losses and damages, the Contractor shall properly submit to HART its written claim for compensable delay supported by detailed justification demonstrating the Contractor's entitlement to a compensable delay within fourteen (14) days after commencement of the delay, which the Contractor deems to have been caused solely by HART's action or omission. If it is determined by the OIC that the compensable delay is warranted, the Contractor shall be paid the daily rate of compensable delay as set forth in the Contractor's pricing proposal. If no daily compensable rate was solicited and proposed to be made a part of this Contract, then the Contractor will be entitled to reimbursement of its compensable delay, as follows: Such reimbursement shall include the direct costs incurred as a result of the delay and a total of ten percent (10%) added to these amounts for both overhead and profit. Work performed by the first tier subcontractor shall include no more than ten percent (10%) mark-up for both overhead and profit, with an additional five percent (5%) for the Contractor for both overhead and profit. If the Work is performed by a subcontractor at the second tier, that subcontractor is entitled to a total of ten percent (10%) for both overhead and profit and the Contractor and the first tier subcontractor are entitled to a total three percent (3%) mark-up each for overhead and profit. No more than three (3) tiers shall be entitled to overhead and profit. Any other cost or consequential damage including, but not limited to, costs incurred on other construction projects, is not compensable. The OIC shall be entitled to seek further documentation, including a detailed CPC to be submitted thirty (30) days upon the OIC's request, or any other information required to make the determination.

(C) The Contractor shall provide the period of delay and number of days requested for delay. The period of delay shall be solely for the period of time during which Substantial Completion was delayed.

(D) **Concurrent Delay.** No additional compensation will be paid to the Contractor for any time period when the Project completion date is delayed as a result of concurrent delay. Delays are considered concurrent when the Contractor encounters an excusable delay but also has caused its own delay to the Project for the same period of time. The Contractor is only entitled to an adjustment to time and/or compensation for the period of time that the excusable delay exceeds the concurrent delay.

(E) If the Contractor fails to fully comply with the notification requirements of GCDB Sections 3.8(a)(1)(A) and (B), its claim for an extension of time is waived.

(b) **Delay Due to Causes Beyond Contractor's Control/*Force Majeure***

(1) The Contractor's right to proceed shall not be so terminated nor shall the Contractor be charged with resulting damage if the delay in the completion of the Work arises from reasons beyond the Contractor's control or *force majeure*. *Force majeure* is limited to the following events:

(A) Any floods (50-year or greater) within one mile of the Project; any windstorm (Cat-3 or more severe) within one mile of the Project; or any earthquake

- exceeding 3.5 on the Richter scale and epicentered within 25 miles of the specific location of damage on the Site, exceeding 5.0 on the Richter scale and epicentered within 50 miles from the specific location of damage on the Project site, or exceeding 6.5 on the Richter scale and epicentered within 75 miles from the specific location of damage on the Project site; in all cases based on the final determination regarding the location and magnitude of the earthquake published by the National Earthquake Information Center in Golden, Colorado;
- (B) Any epidemic, rebellion, war, riot, act of terrorism or sabotage;
 - (C) Any spill or release of Hazardous Substance by a third party at, near, or on the Project site, which occurs after the Proposal due date and is required to be reported to the relevant governmental agencies;
 - (D) The discovery at, near, or on the Project site of any archaeological, paleontological, biological, or cultural resources, or any species presently or in the future listed as threatened or endangered under the federal or state endangered species act; provided that the existence of such resources was not identified in the Contract Documents;
 - (E) The suspension, termination, interruption, denial or failure to obtain, nonrenewal, or amendment of any environmental approval, except if such suspension, termination, interruption, denial or failure to obtain, renew or amend is due to an action or omission on the part of the Contractor or except as otherwise provided in the Contract;
 - (F) Any change in a Governmental Rule or change in the judicial or administrative interpretation of or adoption of any new Governmental Rules which is materially inconsistent with Governmental Rules in effect on the Proposal due date and materially affects the Contract; and
 - (G) Any court action seeking to restrain, enjoin, challenge, or delay construction of the Project or the granting or renewal of any governmental approval for the Project, except to the extent that the court action is due to an act or omission of the Contractor or any of its subcontractors and could not have been prevented by due diligence and use of reasonable efforts by the Contractor.
- (2) The term *force majeure* specifically excludes from its definition the following events which might otherwise be considered *force majeure*:
- (A) Any climactic conditions, storms, floods (less than 50-year), droughts, fires, windstorms (less than Cat-3), earthquakes (3.5 or lower on the Richter scale), landslides, or other catastrophes as measured, recorded, or experienced within proximity to the Project;
 - (B) Strike, labor dispute, work shutdown, work stoppage, secondary boycott, walkout, or similar occurrences;
 - (C) The suspension, termination, interruption, denial or failure to obtain, or nonrenewal of any permit, license, consent, authorization, or approval (including all governmental approvals other than environmental approvals), which is necessary for the performance of the Work or the maintenance of the Project;

- (D) The work or presence on the Project site of any third party, including but not limited to other contractors, personnel employed by the State of Hawaii, other public entities, other transportation or utilities' entities, or by other private enterprises or any delay in progressing Work by any third party as indicated or disclosed in the Contract Documents or ordinarily encountered or generally recognized as inherent in the Work;
 - (E) The existence of any facility or appurtenances owned, operated, or maintained by any third party, as indicated or disclosed in the Contract Documents or ordinarily encountered or generally recognized as inherent in the Work;
 - (F) The act or failure to act of any public or governmental body, transportation company or corporation, or utility, including but not limited to approvals, permits, restrictions, regulations, or ordinances relevant to the Contractor's Work under the Contract;
 - (G) Restraining orders, injunctions or judgments issued by a court which were caused by the Contractor's submissions, action or inaction, or means and method of construction;
 - (H) Any shortages or supplies or material required by the Contract Work; and
 - (I) Variations in soil moisture content from that represented in reports, borings, or tests conducted by HART and included in the Contract Documents.
- (3) The Contractor, within ten (10) days from the beginning of the delay caused by the *force majeure* event shall notify HART in writing specifying the reason or reasons for the delay and the effect of this delay to the specified completion date of the Project. The Contracting Officer shall ascertain the facts and the extent of the delay.
 - (4) Time extensions shall be the exclusive remedy granted to the Contractor for delay due to *force majeure* events, and no additional compensation will be paid the Contractor for such delays.

(c) The Contractor shall never be entitled to anticipated profit or actual profit for change orders only involving an extension in Contract time.

3.9 Termination for Default or Nonperformance

(a) If a petition in bankruptcy should be filed by the Contractor, or if the Contractor should make a general assignment for the benefit of creditors, or if a receiver should be appointed due to the insolvency of the Contractor, or 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, fails to make prompt payment to subcontractor or payment for materials or labor, or disregard laws, ordinances or the instructions of HART, or if the Contractor should refuse or fail to abide by the Contract, the schedule requirements in the Contract Documents, or commits any other substantial breach of this Contract, including the events of default listed in subsection (b) below, and further fails within fifteen (15) days after receipt of written notice from the Officer-in-Charge or Director to commence and continue correction of the default with diligence and promptness, the Officer-in-Charge and/or Director 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 that event, HART 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 therefore. 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 HART resulting from the Contractor's refusal or failure to complete the Work within the specified time.

(b) **Default.** Any of the following causes may be deemed by HART to be a default and result in the Contractor's termination under the Contract:

- (1) Failure to commence work within the time specified in the notice to proceed;
- (2) Failure to perform the work with sufficient workers and equipment or with sufficient materials to assure the prompt completion of said work;
- (3) Failure to comply with orders of the Officer-in-Charge;
- (4) Discontinuation of the prosecution of the work;
- (5) Failure to resume work which has been discontinued within a reasonable time after notice to resume;
- (6) Insolvency or is declared bankrupt, or commits any act of insolvency or bankruptcy;
- (7) Allows any final judgment to stand against the Contractor unsatisfied for a period of ten (10) days;
- (8) Assignment for the benefit of creditors;
- (9) Unauthorized changes in the subcontractor listing submitted with the Contractor's proposal; or
- (10) Failure to correct deficiencies or to complete the Contract.

(c) If the expense incurred by HART of finishing the Work exceeds the unpaid balance due to early termination of the Contract resulting from the Contractor's default, the Contractor shall pay the difference to HART within a reasonable time not to exceed forty-five (45) days of receiving an invoice. The expenses incurred by HART herein and the damages incurred through the Contractor's default, shall be determined by HART, at its sole discretion, which determination shall be binding between the parties subject to the procedures stated in the Contract Documents and pursuant to applicable law regarding the resolution of disputes.

(d) **Liquidated Damages Upon Termination.** If fixed and agreed liquidated damages are provided in the Contract, and if HART so terminates the Contractor's right to proceed, the resulting damage will consist of the liquidated damages for the time as may be required for final completion of the work.

- (1) **Liquidated Damages in Absence of Termination.** If fixed and agreed liquidated damages are provided in the Contract, and if HART does not terminate the Contractor's right to proceed, the resulting damage will consist of liquidated damages until the Work is completed or accepted.

(e) Without waiving any other right or remedy, HART may serve written notice upon the Contractor and the Surety on its Performance Bond demanding satisfactory compliance with the Contract. Upon receipt of such demand, the Surety shall, with reasonable promptness, but in no event more than fifteen (15) days elect to either:

- (1) Assume the Contract; or
- (2) Deny liability in whole or in part and notify HART citing reasons therefor.

(f) If the Surety elects to assume the Contract, then it may do so, in consultation with and with HART's agreement, to:

- (1) Arrange for the Contractor to perform and complete the Contract; or
- (2) Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or
- (3) Obtain bids or negotiated proposals from qualified contractors acceptable to HART for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by HART and said contractor (to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Contract) and pay to HART the amount of damages in excess of the balance of the Contract Price incurred by HART resulting from the Contractor's default; or
- (4) Waive its rights under (1), (2) and (3) above, and with reasonable promptness under the circumstances, determine the amount for which it may be liable to HART and, as soon as practicable after the amount is determined, tender payment therefore to HART, the acceptance of which shall not be deemed an acceptance by HART of the Surety's determination of the total amount due and payable by the Surety; or

(g) Should the Surety and HART agree that the Surety will assume the Contract, all money which may become due the Contractor shall be payable to the Surety as the Work progresses, subject to the terms of the Contract; and

(h) If the Surety does not assume the Contract within fifteen (15) days after receiving HART's notice and demand, HART may then take possession of all Material and Equipment and complete the Work by use of its own forces, by letting the unfinished Work to another contractor, or by a combination of such methods. In any event, the cost of completing the Work shall be charged against the Contractor and its Surety and may be deducted from any money due or becoming due to the Contractor. If the amount unpaid under the Contract is insufficient for completion, the Contractor or Surety shall pay to HART within a reasonable time not to exceed thirty (30) days after the completion and an itemized demand for payment from HART, all costs and damages incurred by HART in excess of the amount unpaid under the Contract.

(i) The Contractor, in having executed the Contract, shall be deemed to have waived any and all claims for damages because of Termination of Contract for any such reason, except to the extent that any termination has been found to be wrongful.

(j) In the event of a termination under the provisions of this Section, the Contractor shall transfer and assign to HART, in accordance with HART's instruction, all Work, all subcontracts, all construction records, reports, permits, data and information, other materials (including all HART-supplied materials), supplies, Work in progress and other goods for which the Contractor is entitled to receive reimbursement hereunder, and any and all plans, drawings, sketches, specifications, and information prepared by the Contractor or others in connection with the Work, and shall take such action as may be necessary to secure to HART, at HART's sole election, the rights of the Contractor under any or all orders and subcontracts made in connection with the Work. All subcontracts and supplier contracts of any tier shall contain language permitting HART to assume that contract in the case of Termination for Default.

(k) In the event that HART so directs or authorizes, the Contractor shall sell at a price approved by HART, or retain with approval of HART at a mutually agreeable price, any such materials, supplies, Work in progress, or other goods as referred to in the preceding paragraph. In any event, HART shall retain any and all records, plans, drawings, data, permits, specifications, sketches, reports or other information relating to the Work.

(l) In the event that a Termination for Default is determined in subsequent proceedings to be improper, then any such termination shall be deemed as a Termination for Convenience.

(m) HART may exercise any and all remedies available at law or in equity, including recovery of damages to the extent provided by law, subject to the limitations set forth herein, and the exercise or beginning of the exercise by HART of any one or more rights or remedies under this Section shall not preclude the simultaneous or later exercise by HART of any or all other rights or remedies, each of which shall be cumulative.

3.10 Termination for Convenience

(a) **Termination.** The Chief Procurement Officer may, when the interests of HART so require, terminate this Contract in whole or in part, for the convenience of HART. The Chief 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) **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 HART's approval. The Contracting Officer may direct the Contractor to assign the Contractor's right, title, and interest under terminated orders or subcontracts to HART. The Contractor must still complete the work not terminated by the notice of termination and may incur obligations as necessary to do so.

(c) **Right to Design and Construction and Goods.** The Contracting Officer may require the Contractor to transfer title and deliver to HART in the manner and to the extent directed by the Contracting Officer:

- (1) Any completed designs and constructions; and
- (2) The partially completed designs and construction, goods, materials, parts, tools, dies, jigs, fixtures, plans, drawings, information, and contract rights (hereinafter called "construction material") as the Contractor has specifically produced or specially acquired for the performance of the terminated part of this Contract.
- (3) The Contractor shall protect and preserve property in the possession of the Contractor in which the State, City or HART has an interest.
- (4) If the Contracting Officer does not exercise the rights set forth in this Section, the Contractor shall use the Contractor's best efforts to sell the construction, goods, and construction materials in accordance with the standards of HRS Section 490:2-706. This in no way implies that HART has breached the contract by exercise of the termination for convenience clause.

(d) **Compensation.**

- (1) The Contractor may submit a termination claim, but if submitted, shall specify the amounts due because of the termination for convenience together with cost or pricing data, submitted to the extent required by HAR Chapter 3-122, Subchapter 15 or as directed by HART, bearing on such claim. If the Contractor fails to file a termination claim within one year from the effective date of termination, the Chief Procurement Officer may pay the Contractor, if at all, an amount set in accordance with GCDB Section 3.10 (d)(3)(A).

- (2) The Contracting 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 less payments previously made by HART, the proceeds of any sales of construction, goods, and construction materials under GCDB Section 3.10(c)(4), and the Contract price of the work not terminated.
- (3) Absent complete agreement under GCDB Section 3.10(d)(2), the Chief Procurement Officer shall pay the Contractor the following amounts, provided payments under GCDB Section 3.10(d)(2) shall not duplicate payments under this paragraph, for the total (without duplication of any items) of:
 - (A) The cost of all Contract work performed prior to the effective date of the notice of termination plus a five percent (5%) markup on actual direct costs on the portion of the work (no anticipatory profit or consequential damages shall be included) less amounts paid or to be paid for completed portions of the 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;
 - (B) Subject to the prior approval of the Chief Procurement Officer, the costs of settling and paying claims arising out of the termination of subcontracts or orders under this Contract shall be entitled to a markup of no more than ten percent (10%) on direct costs incurred to the date of termination. These costs must not include costs paid in accordance with GCDB Section 3.10(d)(3)(A); and
 - (C) The total sum to be paid the Contractor under this paragraph shall not exceed the total Contract price reduced by the amount of any sales of construction, goods, and construction materials under GCDB Section 3.10(c)(4), and the Contract price of work not terminated.
- (4) Costs claimed, agreed to, or established under GCDB Sections 3.10(d)(2) and 3.10(d)(3) shall be in accordance with HAR Chapter 3-123.

END OF CHAPTER

Chapter 4 – Performance/Payment Bonds; Insurance

4.1 Performance and Payment Bonds

(a) Performance and payment bonds are required under this Contract. For this construction Contract, each bond shall be in an amount equal to one hundred percent (100%) of the amount of the Contract price. The performance and payment bonds shall be delivered by the Contractor to HART before or at the same time the Contract is executed. If the Contractor fails to deliver the required performance and payment bonds, the Contractor's award shall be canceled, the Contractor shall be subject to a claim for all resulting damages, its bid security enforced, and the Contracting Officer may award the Contract to the next ranked offeror in accordance with subchapter 11 of Chapter 122 of HAR. [HAR 3-122-224]

(b) **Acceptable performance and payment bonds.** Acceptable Contract performance and payment bonds shall be limited to:

- (1) Surety bond in the form attached to the solicitation documents underwritten by a company licensed to issue bonds in this State;
- (2) Legal tender; 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 a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, and payable at sight or unconditionally assigned to HART. These instruments may be utilized only to a maximum of \$100,000. If the required security amount totals over \$100,000, more than one instrument not exceeding \$100,000 each and issued by different financial institutions shall be accepted. [HAR 3-122-222]

(c) **Reimbursement of direct costs only.** The reasonable, direct cost only of performance and payment bonds shall be reimbursed to the Contractor, without markup.

(d) **Bond forms.** The Contractor shall execute the surety performance and payment bond forms provided with award of the Contract. Failure to utilize HART's surety bid bond form shall not relieve the bidder or the Contractor from liability or responsibility if it is discovered that the form utilized is not in compliance with the HAR.

(e) **Contracts with Federal funds.** In addition to the requirements of this Section, whenever a contract is partially or fully funded with Federal funds, the amount of the bonds shall be the amount required by the Federal agency, and the surety companies shall be those listed in the latest issue of the U. S. Treasury Circular 570. In addition, the surety or sureties must be rated "A-, FSC (6)," or higher by A.M. Best Rating Guide.

(f) **Payment claims against the bond.** Every person who has furnished labor or material to the Contractor for the work provided in the Contract for which a payment bond or a performance and payment bond is furnished herein, and who has not been paid amounts due before the expiration of a period of ninety (90) days after the day on which the last of the labor was performed or material was furnished or supplied, for which a claim is made, may institute an action for the amount, or balance thereof, unpaid at the time of the institution of the action against the Contractor or the Contractor and its sureties, on the payment bid and have their rights and claims adjudicated in the action, and judgment rendered thereon, subject to HART's priority on the bond.

(g) From the date of its execution performance and payment bonds shall be renewed as necessary so as to prevent a lapse in coverage.

(h) Increases in Contract amount. If the total Contract amount is increased by a change order, the Contractor agrees to provide HART with such additional Performance and Payment Bonds as required to assure performance of any additional Work and payment for the labor and materials incidental to such Work. The Contractor shall provide the consent of the surety or sureties when the aggregate amount of all change orders to this Contract exceeds ten percent (10%) of the original penal amount of either bond.

4.2 Insurance Requirements

(a) Owner Controlled Insurance Program

- (1) HART has implemented an Owner Controlled Insurance Program (“OCIP”) for the Honolulu Rail Transit Project. As such, all contractor(s) and subcontractor(s) at any tier will be required to participate as further described herein.
- (2) HART will, through the OCIP, procure and maintain at all times during the performance of this Agreement, and for such extension periods for completed operations, at its own expense, Workers' Compensation and Employer’s Liability, Commercial General Liability, and Umbrella/Excess Liability insurance described in GCDB Section 4.2 (g), OCIP Insurance Provided by HART, for the benefit of Enrolled Parties (as defined below). Builders Risk coverage will also be procured by HART in addition to the OCIP lines of coverage mentioned above.

(b) **Applicability of the OCIP.** Participation in the OCIP is mandatory but not automatic. Each Eligible Party and subcontractor of all tiers must follow the enrollment procedures as further detailed in the OCIP Manual.

- (1) The following terms as used herein this Section are defined below:

“Eligible Party(ies)” includes all Contractors and subcontractors of all tiers providing direct labor at the Project Site, as defined below, for work performed under this Contract at the Project Site. Temporary labor services and leasing companies providing such direct labor are to be treated as Eligible Parties.

“Enrolled Party(ies)” means any Eligible Party and subcontractor of any tier that follows and completes the enrollment procedures, and becomes enrolled in the OCIP.

“Excluded Party(ies)” means:

- Off-site fabricators, vendors, suppliers (who do not perform or subcontract installation), material dealers;
- Guard services, janitorial services, and other service providers not performing construction activities;
- Cranes, demolition, blasting;
- Truckers and haulers (including trucking to the Project where delivery is the only scope of Work to be performed);
- Asbestos abatement or other hazardous waste removal Contractor(s) and their respective subcontractor(s) of any tier;
- Architects, engineers, surveyors or other professional services providers; and
- Others whose sole function is to transport, pickup, deliver or carry materials, supplies, tools equipment, parts or other items to or from the Project Site, or who do not perform any actual on-site labor.

- Any other entity specifically determined by HART to be excluded will not be covered by insurance purchased by HART through the OCIP.

“Project Site,” as used in the context of OCIP, is designated by HART and is on file with the OCIP Insurance Carrier. It encompasses the Minimum Operable Segment (MOS) that extends along an east-west corridor approximately twenty (20) miles long from East Kapolei to Ala Moana Center. It includes operations necessary or incidental to the Work covered by this Contract. The Eligible Parties’ regularly established workplace, plant, factory, office, shop, warehouse, yard or other property, even if such operations are for fabrication of materials to be used at the job site or training of apprentices, shall be considered off-site and are not covered by the OCIP, unless specifically agreed in writing and approved by HART.

- (2) The insurance coverage described in GCDB Section 4.2(g), OCIP Insurance Provided by HART, will not apply to those contractors and subcontractors at any tier who are not Enrolled Parties.
- (3) While the OCIP is intended to provide coverage for the Project Site, the OCIP is not intended to meet all of the Enrolled Parties’ insurance needs. The OCIP does not provide coverage for Automobile Liability, Contractor’s Equipment, Contractors Pollution Liability or Performance and Payment Bonds. Enrolled Parties will be responsible for procuring and maintaining, at their own expense throughout the term of this Agreement the insurance coverage described in GCDB Section 4.2(k), Insurance Required of Enrolled Parties, and will be responsible for requiring that each Enrolled Parties of any tier procure and maintain, at their own expense coverage in accordance with the requirements as outlined in GCDB Section 4.2 (k).
- (4) Contractor(s) will be responsible for requiring that a subcontractor of any tier who is not an Enrolled Party, procure and maintain during the term of this Project the insurance coverage required under GCDB Section 4.2(l), Insurance Requirements of Excluded Parties.
- (5) It is recommended that the Enrolled Parties discuss the OCIP with their insurance agent to assure that other proper coverages are maintained.

(c) HART’s Insurance Obligations; Enrolled Party’s Obligations

- (1) HART assumes no obligation to provide insurance other than that stated in GCDB Sections 4.2(g) and 4.2(h), OCIP Insurance Provided by HART and Other OCIP Insurance Provided by HART, respectively. Unless specifically approved by HART in writing, the policies set forth in GCDB Sections 4.2(g) and 4.2(h) will cover only those operations of the Enrolled Parties performed in connection with the Work at the Project Site.
- (2) Each Enrolled Party will review the OCIP coverages, limits of liability and insurance policies to satisfy itself that the coverage offered herein meets its needs and those of its Subcontractor(s) of any tier. Nothing contained herein will be deemed to place any responsibility on HART for ensuring that the insurance provided by the OCIP is sufficient for the conduct of any Enrolled Party’s business or performance of the Work. HART reserves the right at its option, without obligation to do so, to furnish other insurance coverage of various types and limits provided that such coverage is not less than that specified in the Contract Documents. The furnishing of insurance by HART through the OCIP will in no way relieve or limit or be construed to relieve or limit any Enrolled Party of any responsibility, liability, or obligation imposed by

the Contract Documents or by law, including without limitation any indemnification obligations which any Enrolled Party has to HART hereunder.

- (3) Any type of insurance coverage or limits of liability not provided by the OCIP which any Enrolled Party desires for its or its own protection will be its sole responsibility and expense and will not be billed to HART. Each Enrolled Party represents and warrants that they have had the opportunity to read and analyze copies of the OCIP policies which are available upon request and understand the contents thereof. Any reference in this Contract, the OCIP Manual or elsewhere in any other Contract Documents as to amount, nature, type or extent of coverage provided under the OCIP and/or potential applicability to any potential claim or loss is for reference only and each Enrolled Party represents and warrants that they have not relied upon said reference but solely upon their own independent review and analysis of the OCIP policies in formulating any understanding and/or belief as to amount, nature, type or extent of any coverage provided by the OCIP policies and/or its potential applicability to any potential claim or loss.

(d) **Excluded Parties.** Excluded Parties as defined above will not be covered by insurance purchased by HART through the OCIP.

(e) **HART's Election to Discontinue OCIP Coverage; Termination of OCIP**

- (1) If HART, for any reason, is unable to furnish coverage, elects to discontinue the OCIP, modifies the limits of liability provided in the OCIP, or requests that an Enrolled Party withdraw from the OCIP, then upon thirty (30) days written notice from HART, the Enrolled Party specified by HART in such notice, will obtain at HART's expense (as approved by HART), and thereafter maintain during the performance of the Work, all (or a portion thereof as specified by HART) of the insurance required to be provided by Excluded Parties and as otherwise required under the Contract Documents, and HART will thereafter no longer be obligated to furnish all or a part of such insurance through the OCIP. The form, content, limits of liability and cost of such insurance and the insurer issuing such insurance secured by the Enrolled Party pursuant to the provisions of this Section will be subject to HART's approval, which approval will not be unreasonably delayed or withheld.
- (2) Enrolled Parties will, in accordance with the terms of the Contract, request reimbursement for the cost of their insurance based on the Insurance Premium Worksheet completed at time of bid, prorated based on the percentage the Contract is complete at time of cancellation of the OCIP.
- (3) The OCIP insurance coverage will terminate after Substantial Completion or a temporary or permanent certificate of occupancy is issued, except for the extended completed operations coverage.
- (4) Should the coverage be cancelled prior to Final Acceptance by HART of the contract, the Contractor shall procure and maintain coverage as stated in GCDB Section 4.2(k) Insurance Required of Enrolled Parties, in which case such coverage shall apply to all Work performed under the Contract.

(f) **Limits of Liability**

- (1) The furnishing of said insurance by HART will in no way relieve, or limit or be construed to relieve, or limit the Contractor(s) and Subcontractor(s) of any tier of any responsibility or obligation whatsoever otherwise required under this Contract.

- (2) The Enrolled Parties and Excluded Parties agree that if said party has any cause of action against HART related to the Project (other than HART's obligation to pay for the materials and services provided herein), HART's sole liability will be limited to the coverage provided under the OCIP Insurance and Builders Risk Insurance provided by HART.

(g) **OCIP Insurance Provided By HART.** HART's representative will provide the Enrolled Party an OCIP Manual, which will include a summary of insurance coverage, loss control procedures and claims procedures as well as enrollment forms and reporting requirement for the OCIP. The Enrolled Party will use and comply with the requirements in said manual.

The OCIP Insurance provided by HART to Enrolled Parties is as follows:

- (1) Workers' Compensation Insurance. Statutory Limits of the Workers' Compensation Laws of the State of Hawaii and Coverage B - Employer's Liability limits:
 - (A) \$1,000,000 each accident for Bodily Injury by accident,
 - (B) \$1,000,000 each employee for Bodily Injury by disease, and
 - (C) \$1,000,000 policy limit for Bodily Injury by diseaseCovering operations of the Enrolled Party performed on or incidental to Work at the Project Site.
- (2) Commercial General Liability Insurance. (Excluding Automobile and Professional Liability) in form providing coverage not less than a Commercial General Liability insurance policy, including hazards of explosion, collapse, underground, independent Contractor(s), completed operations for 10 years after "project completion date", contractual liability coverage and personal injury liability coverage for claims arising out of the Work for personal injury, bodily injury and property damage on an "occurrence" form. Policy or policies of insurance total available limits, to all insureds combined, will not be less than:
 - (A) \$2,000,000 per occurrence,
 - (B) \$2,000,000 personal and advertising injury aggregate,
 - (C) \$4,000,000 general aggregate (reinstating annually),
 - (D) \$4,000,000 completed operations aggregate term limit.Such insurance will not include coverage for products liability for any product(s) manufactured, assembled, or otherwise worked upon away from the Project Site for any Enrolled Party or excluded party performing such off-site work.
- (3) Umbrella/Excess Liability Insurance. Policy or policies written will intend to follow the terms and conditions of the primary Commercial General Liability policy, except as specifically noted within the umbrella/excess liability form, and provide limits of not less than:
 - (A) \$200,000,000 general aggregate,
 - (B) \$200,000,000 products/completed operations aggregate, excess of Commercial General Liability and Employers Liability stated above, to all insureds combined, unless written notice is supplied to all Enrolled Parties under this program.

- (4) Primary And Non-Contributing. Workers' Compensation and Employers Liability insurance is primary and non-contributing with respect to any persons (other than HART's employees) covered by such insurance. Commercial General Liability and Umbrella/Excess insurance is primary insurance and non-contributing with any other insurance carried by the Enrolled Parties.
- (5) Assignment: In consideration of HART purchasing OCIP insurance as stated above, the Enrolled Parties will assign to HART all return premiums, premium refunds, dividends and other monies due or to become due in connection with the insurance which HART provides under the OCIP, all of which will inure to the benefit of the OCIP. The Enrolled Parties will execute such further documentation as may be required by HART to effect this assignment.
- (6) Waiver Of Subrogation Rights. Except for the amount of the deductibles as stated elsewhere in this contract, the Enrolled Parties each on their own behalf and on behalf of anyone claiming by, through or under them, whether by way of subrogation or otherwise, hereby waive any and all subrogation rights which they may now or hereafter have against each other and the parent, related and affiliated companies, the successors and assigns of each other, in connection with the performance of the Work to the extent such subrogation rights are not the result of any intentional wrongful act or omission of the party causing such loss and are covered losses under the insurance provided hereunder.

(h) **Other OCIP Insurance Provided by HART.** The following insurance coverage will be provided by HART for the Project, which does not require enrollment for coverage to apply:

- (1) "All Risk" Builder's Risk
 - (A) Builder's "all risk" subject to policy terms and conditions shall cover all property in the course of construction, transit or off-site storage including the Work, plant hardware, miscellaneous equipment, buildings and structures, machinery, furnishings and other properties constituting a part of the Project from physical loss or damage caused by perils covered by a builder's all risk policy form insuring the interest of HART and Contractor(s) or Subcontractor(s) of any tier.
 - (B) Such insurance shall include but not limited to, coverage against; fire, lightning, hail, explosion, riot or civil commotion, and collapse.
 - (C) Coverage shall include all materials, supplies and equipment that are intended for specific installation in the Project while such materials, supplies and equipment are located at the Project Site and while temporarily located away from the Project Site for the purpose of repair, adjustment or storage at one of the Contractor(s) or Subcontractor(s).
 - (D) Coverage shall be written on a replacement cost basis and the limit of liability shall be the full replacement cost of the Work in progress.
 - (E) The policy(ies) for such insurance will be secured and maintained by HART. The Contractor(s) and Subcontractor(s) must report the value, time and means/location of any such transit or storage to HART or HART's designee prior to transit or storage. The Contractor(s) and Subcontractor(s) will be responsible for any loss that is uninsured or underinsured arising out of such failure to notify HART or HART's designee.

- (F) This insurance will not include any tools or clothing of workers or any tools, equipment, protective fencing, scaffolding, and equipment owned, rented, leased or used by the Contractor(s) and Subcontractor(s) in the performance of the Work, not intended for specific installation into the Project.
- (G) HART will not be liable or responsible for any loss or damage whatsoever to the excluded items and the Contractor(s) and Subcontractor(s) will indemnify and hold harmless HART, from any claims or causes of action brought by any person or parties as a result of loss or damage to such excluded items.
- (H) The Contractor(s) and Subcontractor(s) waive all rights against each other for loss or damage to any equipment used in connection with the Project and covered by any property insurance. The Contractor(s) and Subcontractor(s) will require similar waivers from their Subcontractor(s).
- (I) The Builder's Risk policy will be endorsed (a) waiving the carrier's rights of recovery under subrogation against the Contractor(s) and Subcontractor(s) whose interest is insured under such policy, (b) each policy will contain a provision that the policy will not be cancelled or allowed to expire until at least thirty (30) days' prior written notice has been given to the Contractor(s) and Subcontractor(s), and (c) policy will be primary and non-contributory.
- (J) Any loss insured as outlined above is to be adjusted with HART and made payable to HART as trustee for the insured's, as their interests may appear, subject to the requirements of any applicable mortgagee clause. The Contractor(s) and Subcontractor(s) will pay such Subcontractor(s) an applicable share of any insurance monies received by the Enrolled Parties and by appropriate agreement, written where legally required for validity, will require Subcontractor(s) to make payments to their sub-subcontractor(s) in similar manner.
- (K) Contractor(s) and Subcontractor(s) will not make a claim against the Builders Risk policy without written notice to HART as the primary holder of the policy.

(i) **Deductible Chargeback.** Notwithstanding the actual policy deductible, each Contractor or Subcontractor or any tier involved in a covered loss will be responsible for up to the first \$25,000 of that loss, to the extent losses payable are attributable to its acts or omissions, or the acts or omissions of its Subcontractor(s) of any tier, as determined by HART. The deductible applying to Contractor(s) and Subcontractor(s) is the responsibility of the Contractor(s) and Subcontractor(s) and may be withheld from progress payments if not reimbursed. HART is responsible for any and all remaining amounts up to the policy deductible.

(j) **Enrolled Parties Responsibilities**

- (1) Contract Insurance Cost. Failure of Enrolled Parties to enforce the enrollment of all subcontractor(s) of any tier does not relieve the Enrolled Parties of the financial responsibility for their insurance deductions. HART maintains the right to pursue insurance deductions for all Subcontractors of any tier through the first tier Contractor(s).
- (A) Contractors bid price for the Work shall be net of insurance, excluding all costs for Workers' Compensation, General Liability, and Umbrella/Excess as described in GCDB Section 4.2 (k), Insurance Required of Enrolled Parties.

However, each Enrolled Party is required to clearly identify in its escrow documents the total cost of Workers' Compensation, Commercial General Liability and Umbrella/Excess Liability insurance that has been excluded from its base bid price for the proposed scope of Work, as if they were required to provide the coverage and limits of liability for onsite Work.

- (B) The Enrolled Parties will complete and submit in its escrow documents the Insurance Premium Worksheet, identifying their insurance costs, regardless of the risk financing technique employed for Workers' Compensation and General /Excess Liability exposures, including but not limited to insurance premiums, expected losses within any retention or deductible amount, loss handling expenses and administrative expenses. The Enrolled Parties warrant by submission of its bid that all insurance premium calculations have been correctly identified and removed from their bid price.
- (C) If the insured party carries a deductible under any of its policies, then the following shall also be included in the Enrolled Parties escrow documents:
 - (i) Copies of the rating pages from the deductible agreement, or
 - (ii) Three (3) years of loss history for all entities that retains losses. Paid, outstanding and total incurred losses must be evidenced by policy period; and
 - (iii) Three (3) years of payroll history for all entities.
- (D) If Contractor(s) will be subcontracting out Work and has not yet identified all of its Subcontractor(s) or does not have the insurance cost for its Subcontractor(s), the Contractor(s) should include 2.75% of the subcontracted value on its Insurance Premium Worksheet, to account for its Subcontractor's excluded insurance costs.
- (E) All contract awards and subsequent changes orders will be submitted and processed net of insurance and labor rates will be reduced to reflect the insurance reduction.
- (F) Upon completion of Work, or on policy expiration, or processing of subsequent changes orders HART's insurance carriers have the right to audit payroll records and the Enrolled Parties escrow documents.
- (G) Costs for overlapping insurance coverage maintained by the Enrolled Parties will not be reimbursable. No OCIP Insurance costs, as provided by HART will be attributable to the Work. All changes orders will be submitted net of insurance and labor rates will be reduced to reflect the insurance reduction.
- (H) If any Enrolled Party does not provide the OCIP administrator with information sufficient to allow verification of the applicable insurance cost, then the OCIP administrator may independently calculate an appropriate insurance cost on based on undiscounted or "manual" rates in which case the manual rates shall apply
- (I) **Conflicts:** The provisions of the Agreement will govern in the event of a conflict between the Agreement and the OCIP Manual
- (J) **Warranty Statement:** The Enrolled Parties will provide and warrant the accuracy of the information provided on the Insurance Premium Worksheet

and Enrollment Package, including the supporting documents (copies of the policy declaration page and policy rate pages or Deductible Agreement pages if on a large deductible program or a letter from your insurance carrier evidencing the deductible rate and loss content rate) and/or any change order forms and agrees that HART, OCIP administrator and/or the OCIP insurance companies may, but are not required to audit the Contractor(s) and/or Subcontractors records to confirm the accuracy for any and all allowable insurance credits including the changes to the Contract. The Enrolled Parties agree and warrant that HART is entitled to and may collect additional insurance costs as may be developed as a result of said audits and/or changes/change orders as may be agreed to in connection with the Work. The Enrolled Parties agree to provide insurance records, policies, declaration pages of policies, certificates of self-insurance and such other documents as may be requested in order to assure the accuracy of insurance data.

- (K) **Application For Insurance:** The Enrolled Parties shall submit a completed Enrollment Application within fifteen (15) days after contract award for contracts awarded after the OCIP has been initiated by HART. Enrolled Parties under Contract with HART prior to initiation of the OCIP shall submit a completed Enrollment Application within fifteen (15) days after receipt of the Enrollment Application from the OCIP Administrator. In addition, the Enrolled Parties will cooperate with the OCIP administrator regarding such application. An OCIP Manual will be distributed to the Enrolled Parties in connection with this Contract. This manual describes the procedures to be followed by the Enrolled Parties for enrolling in and complying with the OCIP, and is hereby included as part to of this Contract by reference. The Enrolled Parties will complete the Enrollment Application and other such forms contained in the Enrollment Package as are applicable to your Agreement, as well as complete the monthly payroll reporting form and follow the procedures as outlined in the OCIP Manual. The Enrolled Parties will include these insurance specifications in its Contract for Subcontractor(s) of any tier providing Work at the Project Site and will ensure that such Subcontractor(s) of any tier receive the OCIP Manual, enroll in the OCIP, and comply with the OCIP procedures.
- (L) **Cooperation:** The Enrolled Parties will:
- (i) Furnish to HART, its insurance representatives or the insurance company all information and documentation which the OCIP may require in connection with the issuance of any policies, in such form and substance as HART or its designee may require;
 - (ii) Furnish to HART, its insurance representative or the insurance company, on-site payroll reports on the form as required and described in the OCIP Manual by the 15th of the following month for the prior month (including months with no payroll);
 - (iii) Permit HART, its insurance representative and/or the insurance company to access and audit Enrolled Parties escrow documents and audit the Enrolled Parties books and records and provide documentation as may be required to assure accuracy of those payroll reports. The Enrolled Parties agree that their failure to submit documents as required may

result in withholding progress payments until said payroll reports are received by HART or its designee;

- (iv) Promptly comply with the requirements, obligations and recommendations of HART, its insurance representative or insurance company so that the OCIP may be properly administered and so that the insurance companies will continue to provide the coverage as specified in this the document under the OCIP. If the Enrolled Parties should fail to comply with any requirement, obligation or recommendation, HART may withhold any payments due the Enrolled Parties until such time as they will have performed the requirements, obligations and recommendations as required by this contract;
- (v) The Enrolled Parties will provide HART and HART's representative with all information necessary for the issuance of said policies and will maintain and make available to the insurance companies payroll records and such other records relating to the Work as may be necessary for the proper computation of the insurance premiums;
- (vi) The Enrolled Parties will cooperate with HART with regard to administration and operation of the OCIP. The Enrolled Parties' responsibilities will include but are not limited to: operations and insurance information; inclusion of OCIP provisions in all subcontracts; notification to HART's representative of all subcontracts awarded; maintenance and provision of monthly payroll records and other records as necessary for premium computation; OCIP Notice of Work Completion form completed as part of the punch-list process; compliance with applicable loss control (safety) and claims reporting procedures; maintenance of an Occupational Safety and Health, Department of Labor and Industrial Relations, State of Hawai'i (HIOSH) or Occupational Safety and Health Administration (OSHA) Log to be provided monthly to HART and/or HART's Representative; and
- (vii) Milestone/Progress payments will be withheld for failure of the Contractor(s) to comply with the OCIP requirements as defined herein and enforce Subcontractor(s) compliance.

(k) **Insurance Required of Enrolled Parties.** The OCIP provided coverage is for Work at the Project Site only. For Work performed away from the Project Site not covered by OCIP because of the Work location and for coverage not otherwise provided by the OCIP the Enrolled Parties will provide and maintain the types of insurance described below with a company or companies legally authorized to transact insurance business in the state of Hawaii and be rated at least A- VIII in the current A.M. Best ratings or must be otherwise acceptable to HART. The Enrolled Parties will maintain the specified insurance coverage until all obligations under this Contract are satisfied.

- (1) Workers' Compensation and Employer's Liability: The Enrolled Parties will maintain Statutory Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over its employees while engaged in the performance of the Work at locations other than those covered under the OCIP. This insurance will also cover any Enrolled Parties' employees working away from the Project Site, employees not otherwise covered under OCIP, employees coming on the

Project Site after the Project have been accepted by HART as complete, and Subcontractors' employees after Subcontractors have finally performed its contract.

Workers' Compensation coverage will comply with the statutory limits of the State of Hawaii, and will provide for Employers Liability insurance with limits as follows:

- (A) \$1,000,000 bodily injury by accident for each person;
- (B) \$1,000,000 bodily injury by disease for each person; and
- (C) \$1,000,000 bodily injury by disease-policy limit.

- (2) Commercial General Liability: Insurance for premises and operations away from the Project Site or not otherwise covered by OCIP of the Enrolled Parties (including products liability for any product manufactured, assembled or otherwise Worked upon away from the Project Site) in a form providing coverage not less than that of Commercial General Liability insurance policy ("Occurrence Form") for operations of the party required to furnish same, including hazards of elevators, independent Contractors, products and completed operations, with contractual liability and personal advertising injury liability coverage for claims arising out of the Work hereunder for personal injury, bodily injury and property damage in policy or policies of insurance such that the total available limits combined will not be less than:

As respects Contractors and Subcontractors of any tier per \$1,000,000 occurrence, \$2,000,000 personal and advertising injury aggregate, \$2,000,000 general aggregate limit and \$2,000,000 aggregate products and completed operations.

- (3) Commercial Automobile Liability: Covering all owned, hired, borrowed, leased, or non-owned automobiles. Such insurance will provide coverage not less than that of the Commercial Automobile Liability policy in limits not less than:

- (A) Contractors and all Subcontractor(s) of any tier, \$1,000,000 Combined Single Limit each occurrence for Bodily Injury and Property Damage.

- (4) Umbrella/Excess Liability: Umbrella/Excess liability insurance, insuring against bodily injury, personal and advertising injury, and property damage, and all other coverage as specified above; (Employers' Liability, Commercial General Liability and Commercial Automobile Liability). The limits of liability are as follows:

- (A) Contractor(s), \$10,000,000 each occurrence, \$10,000,000 annual aggregate limit and \$10,000,000 products and completed operations aggregate.

- (B) As respects Subcontractors of any tier, \$5,000,000 each occurrence, \$5,000,000 annual aggregate limit and \$5,000,000 products and completed operations aggregate.

- (5) Contractor's Equipment: The Enrolled Parties are responsible for their construction tools and equipment, included but not limited to construction trailers and their contents, temporary scaffolding, whether owned, leased, rented, borrowed or used at the Project Site; and the Enrolled Parties agree that HART will not be responsible for any loss or damage to its tools and equipment. If insured, the Enrolled Parties' insurance policy covering tools and equipment will include a waiver of subrogation in favor of HART and all Enrolled Parties. If uninsured, the Enrolled Parties will hold harmless HART and all other Enrolled Parties for loss or damage to their tools and equipment.

- (6) Contractor's Pollution Liability. Coverage will apply to claims as a result of Bodily Injury, Property Damage, Clean-up Costs, or Mold caused by Pollution Conditions resulting from Covered Operations that are performed by or on the behalf of the Contractor at the Project site. Coverage shall also include transportation, disposal site coverage and 10 years of completed operations. Mold coverage is included.
- (A) Coverage Limits:
- (i) \$5,000,000 Each Occurrence
 - (ii) \$5,000,000 General Aggregate
- (7) In Exhibit F - Premium Worksheet, the Contractor shall provide a separate pricing for Contractors Pollution Liability. If the Contractor or Subcontractors can satisfactorily demonstrate to HART that its Work does not require Contractors Pollution Liability or that the limits should be reduced, HART will allow a deductive change order based on the separate pricing provided by the Contractor and its subcontractors on their Premium Worksheets. Otherwise, the Contractor and its subcontractors at any tier shall be required to carry this coverage.

(l) **Insurance Requirements of Excluded Parties.** Excluded parties as defined, performing Work will obtain and maintain, and will require each of its excluded Subcontractors to obtain and maintain, the insurance coverage specified in GCDB Section 4.2 (k), Insurance Required of Enrolled Parties. Such insurance will be primary and non-contributing with any other insurance and be in a form and from insurance companies reasonably acceptable to HART. The insurance limits may be provided through a combination of primary and excess policies, including the umbrella form of policy. HART reserves the right to require higher limits of liability or other insurance coverage as appropriate.

(m) **Provisions Applying to Insurance Requirements of Enrolled and Excluded Parties**

- (1) Additional Insured's: Each policy required (except Worker's Compensation) will name as additional insured HART and their Board of Directors, officers, employees, representative, consultants, agents, Construction Manager, and Construction Manager's subcontractors, the City and County of Honolulu, the State of Hawaii, the General Contractor, their respective parent companies, their subsidiaries, related and affiliated companies of each and the officers, directors, agents, employees and assigns of each. General Liability coverage maintained by contractors and sub - contractors shall contain Additional Insured endorsement CG 2010 and CG 2037 or equivalent. Completed Operations coverage shall be maintained for a minimum of ten years after contract expiration or project completion, whichever occurs later.
- (2) Waiver Of Subrogation: The Enrolled Parties and their respective insurers providing the required coverage as indicated in Workers' Compensation and Commercial General Liability, Umbrella/Excess Liability or any required coverages, will waive all rights of recovery against HART and HART's agents, officials, and employees.
- (3) Each Enrolled Party will pay all insurance premiums for such insurance, including any charges for required waivers of subrogation or the endorsement of additional insured's.
- (4) Primary And Non-Contributing: Insurance coverage for Work AWAY FROM THE PROJECT SITE, or as otherwise noted, required of the Enrolled Parties is primary and non-contributory.

- (5) Certificates of Insurance: The Enrolled Parties and excluded parties will provide certificates of insurance to HART as evidence that policies specified in this Section providing the required coverage, conditions, and limits are in full force and effect. Certificates of insurance will be labeled and addressed as follows:

Identify Contract by HART Contract Number
Honolulu Authority for Rapid Transportation
Attention: Procurement Department
1099 Alakea Street Suite 1700
Honolulu, HI 96813

- (6) Notice of Cancellation: All insurance policies will include a requirement providing for at least thirty (30) days prior written notice to HART of any cancellation or reduction of coverage. If any such notice is given, HART will have the right to require that a substitute policy be obtained prior to said cancellation with appropriate evidence thereof at the discretion of HART. The Enrolled Parties and excluded parties will immediately notify HART and will cease operations on the occurrence of any such cancellation or reduction and will not resume operations until the required insurance is in force and new certificates of insurance have been filed with HART.

END OF CHAPTER

Chapter 5 –Payment; Force Account

5.1 Payment

(a) Payment to the Contractor under this Contract shall not exceed the Total Contract Amount as set forth in the Agreement. The Total Contract Amount shall be inclusive payment for all Work, including materials, equipment, labor and all other incidental work required for the complete design and construction and installation of the Work, all in accordance with the Contract. The Contractor's application for payment shall not exceed the Priced Item set forth in the Periodic Payment Schedule as further described in GCDB Section 7.6, Design and Construction Progress Documentation, for completed Work and, as such, shall only be for Work performed in accordance with the scope of work including engineering, permitting, and design services and construction performed in accordance with the specifications, terms, and conditions of the Contract and for which there is sufficient and/or required documentation.

- (1) The Total Contract Amount shall be paid the Contractor as full compensation for the satisfactory performance of Work in accordance with the Contract Documents. If an error, omission or misstatement shall be discovered in the quantities or measurements stated in the Contract, the same shall not vitiate the Contract, or release the Contractor or the surety or sureties from performing the Contract, or affect the price agreed to under the Contract, or excuse the Contractor from any of the obligations or liabilities under the Contract, or entitle the Contractor to damages or compensation, except as provided herein.

(b) The Contractor may not make an application or request for payment more than once a month.

(c) Requests for payment must be complete and accurate before HART is obligated to make any payment under this Contract and shall include all submittals as required under the Contract, including the following documents:

- (1) An itemization of the amounts requested, related to the various elements of Work required by the Contract covered by the payment requested;
- (2) A copy of the most current HART-approved Project Schedule, schedule updates, and Schedule of Values;
- (3) A certification by the Contractor that all Work and materials for which the Contractor is requesting payment has been incorporated into the Project and that this request for periodic payment does not include any amounts which the Contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.
- (4) A release of all liens and claims from the Contractor relative to the Work, which is the subject of the pay application;
- (5) All required submittals; and
- (6) If applicable, the Monthly Report on Contractor's Participation in Approved Apprenticeship Program Under Act 17 (Form 2).

(d) In the event the Contractor's request for payment is returned as incomplete or inaccurate, the Contractor shall remedy the deficiency and re-submit a revised request for payment. HART's obligation to pay on the payment request shall only commence upon HART's receipt of a complete and accurate request for payment. The Contractor shall not include the days lapsed due to the rejection of its incomplete or inaccurate payment request as a part of its calculations for late payment. Interest for late

payment shall only accrue upon and subsequent to HART's receipt of a complete and accurate payment request.

(e) HART shall deduct from periodic payments to the Contract for:

- (1) Any incomplete Work;
- (2) Any Work that does not meet specifications, terms and conditions of the Contract;
- (3) Unprotected Work; and
- (4) Any contingencies for remedy of defects or damage to the Work or for the necessity of performing any part of the Work over again to cure defects or damage.

(f) HART may at any time withhold payment, in whole or in part, if the Contractor fails to progress with the Work in accordance with Project Schedule and to such extent to protect itself from:

- (1) Liquidated damages and costs incurred by HART for extended construction administration;
- (2) Failure of the Contractor to provide any and all documents required to be provided by HART by the Contract Documents;
- (3) For reasons stated in GCDB Section 5.8, Authority to Withhold Money Due or Payable;
- (4) Overpayment made by HART.

(g) **Refund of unearned amounts.** If the Contractor, after making a request for periodic payments, discovers that a portion or all of such request constitutes a payment for performance by the Contractor that fails to conform to the specifications, terms, and conditions of this Contract ("unearned amount"), the Contractor shall notify HART of such performance deficiency and the unearned amount shall be deducted from subsequent request for payment to the Contractor until the deficiency has been cured.

(h) **Retention.**

- (1) HART will withhold from the Contractor, as retainage, five percent (5%) of the total amount due the Contractor during the first fifty percent (50%) completion of the Contract. Upon 50% completion, the Contractor shall demonstrate to HART's satisfaction that the first fifty percent (50%) of the Contract has been satisfactorily completed and, thus, no additional sum should be withheld, as retainage, for the remainder of the Contract. However, if the demonstration shows that the first fifty percent (50%) of the Contract was not satisfactorily completed, the Contracting Officer shall continue to withhold, as retainage, five percent (5%) of the total amount due the Contractor for the remainder of the Contract. Any and all retainage shall not be released until final acceptance of the Project.
- (2) The retainage shall not include sums deducted as liquidated damages from moneys due or that may become due the Contractor under the Contract.
- (3) The Contractor shall include in its subcontracts provisions that permit:
 - (A) The Contractor or subcontractor to retain, without cause, a specified percentage of no more than ten percent (10%) of each progress payment otherwise due to a subcontractor for satisfactory performance under the subcontract (subject to subparagraph (5) below), without incurring any obligation to pay a late

payment interest penalty, in accordance with the terms and conditions agreed to by the parties to the subcontract; and

- (B) The Contractor and subcontractor to make a determination that part of all of the subcontractor's payment request may be withheld by the Contracting Officer in accordance with the subcontract agreement (subject to subparagraph (5) below), without incurring any obligation to pay interest or a late payment penalty if a written notice of any withholding is issued to a subcontractor, with a copy to the Contracting Officer, specifying the following:
 - (i) The amount to be withheld;
 - (ii) The specific causes for the withholding under the terms of the subcontract; and
 - (iii) The remedial actions to be taken by the subcontractor to receive payment of the amounts withheld.

- (4) The Contractor may not request payment from the Contracting Officer of any amount withheld or retained in accordance with subparagraph (3) above until such time as the Contractor has determined and certified to the Contracting Officer that the subcontractor is entitled to payment of such amount.
- (5) Where a subcontractor has provided evidence to the Contractor of a valid performance and payment bonds executed by a surety company authorized to do business in the State of Hawaii, any other bond acceptable to the Contractor, or any other form of collateral acceptable to the Contractor, the retention amount withheld by the Contractor from its subcontractor shall not be more than the same percentage of retainage as that of the Contractor.
- (6) Any retainage provided for in this Section or requested to be withheld by the Contractor shall be held by HART.
- (7) A dispute between the Contractor and a subcontractor of any tier shall not constitute a dispute to which HART is a party, and there is no right of action against HART. HART may not be interpleaded in any judicial or administrative proceeding involving such a dispute.

- (i) Any utility-owner fees or charges shall be a cost-reimbursement only and no mark-up of any kind will be allowed.

5.2 Payment for Delivered Materials or Equipment

No payment for any material or equipment that is affixed, movable or removable, delivered to the site of the Work under the Contract will be made until said material or equipment is incorporated into the parts of the Project required to be constructed under the Contract. Payment for the delivered material or equipment shall be included in the monthly progress payment under the appropriate cost item.

5.3 Payment for Change Orders

Properly signed change orders shall be paid for in the manner established in the change order. The total price adjustment as specified in the change order shall be considered full compensation for all materials, labor, insurance, bonds, fee, taxes, equipment use or rental, profit and all overhead, and any delay impact costs.

5.4 Final Payment

(a) **Final Payment.** After final acceptance by the Officer-in-Charge, the Contractor will be paid the balance due in accordance with the Officer-in-Charge's final estimate of the construction actually performed and approved by the Contractor, provided that final payment will be made only with the approval of the Chief Procurement Officer and upon submittal of the following to HART:

- (1) Written consent of the surety or sureties on the Contractor's bonds;
- (2) Release of all claims against HART arising by virtue of this Contract, other than claims, in stated amounts, that the Contractor has specifically accepted from the operation of the release. The Contractor may attach Exhibit K (Acknowledgment of Outstanding Claims; see also GCDB Section 7.32, Closeout Procedures.). A release may also be required of the assignee if the Contractor's claim to amounts payable under this Contract has been assigned;
- (3) Evidence of continuing insurance as required; and
- (4) Tax clearance certificate from the director of taxation from the HART and the Internal Revenue Service, not over two months old, with original green certified copy stamp.

(b) **Failure to Comply.** If the Contractor delays or fails to comply with the requirements of this Section, the Chief Procurement Officer, upon recommendation of the Officer-in-Charge and without further obligation to the Contractor, may take any or all of the following actions:

- (1) Upon notice from the State Department of Taxation or Internal Revenue Service, assign payment to the appropriate tax agency;
- (2) Unilaterally, use the final payment estimate of the Officer-in-Charge as the final payment to the Contractor; and
- (3) Determine the Contractor to be nonresponsible, which may jeopardize the Contractor's future status as a qualified offeror.

(c) Upon final payment to the Contractor, full payment to all subcontractors shall be made. The Contractor shall be in compliance with HRS Section 103-10.5, Prompt payment, for final payment to its subcontractors.

5.5 Prompt Payment by Contractors to Subcontractors

(a) **Generally.** Any money 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 on which the procurement agency has withheld payment.

(b) **Final payment.** 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.

(c) **Penalty.** The Contractor or HART, as applicable, will be subject to a penalty of one and one-half percent (1 ½ %) per month upon outstanding amounts due that were not timely paid by the responsible party under the conditions set forth in HAR Section 3-125-23.

- (d) A properly documented final payment request from a subcontractor shall include:
- (1) Substantiation of the amounts requested;

- (2) A certification by the subcontractor, to the best of the subcontractor's knowledge and belief, that:
 - (A) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the subcontract;
 - (B) The subcontractor has made payments due to its subcontractors and suppliers from previous payments received under the subcontract and will make timely payments from the proceeds of the payment covered by the certification, in accordance with their subcontract agreements and the requirements of this Section; and
 - (C) The payment request does not include any amounts that the subcontractor intends to or retain from a subcontractor or supplier in accordance with the terms and conditions of their subcontract; and
- (3) The submission of documentation confirming that all other terms and conditions required under the subcontract agreement have been fully satisfied.

HART shall return any final payment request that is defective to the Contractor within seven (7) days after receipt, with a statement identifying the defect.

(e) This Section shall not be construed to impair the right of a contractor or a subcontractor at any tier to negotiate and to include in their respective subcontracts provisions that provide for additional terms and conditions that are requested to be met before the subcontractor shall be entitled to receive final payment; provided that any such payments withheld shall be withheld by HART.

(f) The Contractor shall maintain records and documents of payments to subcontractors for three (3) years following the final inspection and acceptance of the Work. These records must be available for inspection upon request by any authorized representative of HART and the U.S. Department of Transportation. This requirement extends to all subcontractors of any tier.

5.6 Bond Release

The Contractor's bond, if required, will not be released by final acceptance and payment by HART unless all claims for materials, supplies, tools, labor and other just claims against the Contractor or any subcontractor in connection with this Contract are paid or released, or so much of the monies due or to become due the Contractor under the Contract as shall be considered necessary by the Contracting Officer may be retained by HART. Should any suit or claim be filed against the Contractor, HART may, upon consultation with its Corporation Counsel, retain from any monies due to the Contractor such amount or amounts as may be deemed necessary by HART until such suits or claims have been finally settled and determined and upon satisfactory evidence of such settlement of such suits or claims the money retained shall be paid to the Contractor.

5.7 Payment Does Not Imply Acceptance of Work

The granting of any payment by HART, or the receipt thereof by the Contractor, shall in no way imply acceptance of work. The unsatisfactory character of such work, equipment, components or workmanship that does not conform to the requirements of this Agreement may be rejected by HART and in such case must be replaced by the Contractor without delay.

5.8 Authority to Withhold Money Due or Payable

(a) HART may withhold such amounts from the money due or to become payable under the Contract to the Contractor or any assignee (pursuant to the Contractor's assignment of money), as may be necessary to:

- (1) Protect HART from any liability resulting from the Work performed under the Contract;
- (2) Satisfy any obligation of the Contractor to HART, the City, State Department of Taxation, Internal Revenue Service, or any other obligations required by law;
- (3) Satisfy the obligation of the Contractor to the workers, subcontractors, and suppliers who have performed labor or furnished material and equipment under the Contract as the Chief Procurement Officer deems necessary, but only with the concurrence of or instructions from the Contractor's surety; or
- (4) Repair, restore, or compensate for any real or personal property located within the Project site or in the vicinity thereof, which was damaged as a result of the fault or negligence of the Contractor while performing the Work under this Contract.

(b) HART may make such payments from such amounts withheld for reason specified in subsection (a) hereinabove; provided that, before making any payment for damages to property described in subsection (a)(4), HART will request the Contractor in writing to undertake the repair or restoration of the damaged property or make compensation therefore. If the Contractor fails or refuses to make such repair, restoration, or compensation to the satisfaction of HART within seven (7) days after notification by HART, the Chief Procurement Officer upon recommendation of the Officer-in-Charge and upon the Chief Procurement Officer's own findings that such recommendation is justified, may make the necessary payments.

5.9 Force Account

When performing work on a force account basis, the Contractor and its subcontractors shall comply with the provisions of this Section.

- (a) **Allowable Costs.** In force account, cost shall be the sum of the costs of the following:
 - (1) **Labor.** The Contractor shall receive the current wage rate including fringe benefits for actual work engaged by the hourly worker and supervisor in charge of the specific force account work. Fringe benefits are required amounts established by the State Department of Labor and Industrial Relations, any collective bargaining agreement and other employment contract generally applicable to the classes of labor employed. The Contractor shall submit the fringe benefits for each class in writing to the Officer-in-Charge for acceptance before the force account work begins. The wages for labor shall not exceed the rate of wages paid for similar labor performed under the Contract, as evidenced by the record of the Contractor's payroll on file with the Officer-in-Charge.

Direct labor costs for labor, such as a foreman not physically performing Work on the site and other costs of superintendence, shall be considered as paid within overhead and profit.

For overtime work, payment for non-exempt employees will be for one and a half times the hourly wage rate plus the actual hours of overtime for fringe benefits and/or as required by any collective bargaining agreement.
 - (2) **Materials.** The Contractor will receive the actual cost of materials accepted by the Officer-in-Charge and entered permanently into the work under the Contract including transportation charges as shown by the invoices submitted to the Officer-in-Charge.

For stock materials, used and incorporated into the work, the Contractor shall receive the actual cost as certified by the Contractor to the cost paid by the Contractor. The Officer-in-Charge will include transportation charges and taxes paid by the Contractor.

- (3) Machinery and equipment, other than small tools and minor equipment, which may be necessary or desirable to perform the work. The Officer-in-Charge may reject any machinery or equipment which the Officer-in-Charge deems unnecessary, inefficient or inadequate for the work to be performed. The term “small tools and minor equipment” shall include individual equipment or tools having a replacement value five hundred dollars or less, whether or not they are consumed in the use thereof.

- (A) The rate shall be the per-hour rental rate based on the monthly rate established for said machinery or equipment in the then-current edition of the Rental Blue Book for Construction Equipment including the estimated operating cost per hour, and regional correction provided therein.

The hourly rate will be determined by dividing the monthly rate by one hundred and seventy-six. The rate includes the estimated operating cost per hour and the regional correction factor.

If no rate is listed for a particular kind, type or size of machinery or equipment, then the monthly, hourly rate shall be as agreed upon in writing by the Contractor and the Officer-in-Charge prior to the use of said machinery or equipment. The Contractor shall provide proof of the rental rates charged.

- (B) For trucks not owned by the Contractor, rental rates as those established under the Hawaii State Public Utilities Commission will be used to determine the cost and will be paid for as a material item under GCDB Section 5.9(a)(3).
- (C) For Contractor-owned trucks not listed in the Rental Rate Blue Book, the rates shall be as agreed upon in writing by the Contractor and the Officer-in-Charge prior to the use of said trucks.
- (D) Rental rates which are higher than those specified in the Rental Rate Blue Book may be allowed where such higher rate can be justified by job conditions such as work in water, on lava, etc. Request for higher rate shall be submitted in writing to the Officer-in-Charge for approval prior to the use of the machinery or equipment in question.
- (E) 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.
- (F) **Transportation and/or Mobilization**
- (i) The location from which the equipment is to be moved or transported shall be approved by the Officer-in-Charge.
- (ii) Payment will be made for mobilizing and transporting the equipment or machinery to the force account work site, including loading and unloading, and back to its original location or other site, whichever cost is less. The cost of transportation shall not exceed the rates established by the Hawaii State Public Utilities Commission. If rates are nonexistent, then the rates will be determined by the Officer-in-Charge

based upon the prevailing rates charged by established haulers within the locale.

- (iii) Payment for self-propelled equipment or machinery will be for the cost of moving the equipment by its own power to the force account work site and back to the original location or other site, whichever cost is less.
- (iv) When transporting equipment or machinery by other than its own power, payment shall be made for the transporter, if owned by the Contractor, at the hourly rate including the estimated operational rate and the applicable regional correction factor. Payment for the transporter, if not owned by the Contractor, shall be by invoice cost and paid for as a material item. Payment for the equipment or machinery shall be at the rate of "idle time" under GCDB Section 5.9(a)(3)(G)(i).
- (v) Payment for mobilization and transportation will not be made if the equipment or machinery is used on the work in any other way than upon extra work paid for under force account.

(G) Rental Period

- (i) Idle Time. Idle time herein means the period in which the machinery or equipment designated for the specific force account work is not in use for the work. The time period shall be for a working day (eight (8) hours). Payment shall be fifty percent (50%) of the hourly rate excluding the estimated operational cost per hour per working day.
- (ii) Standby Time. Standby time herein means the period in which the machinery or equipment are standing by for the specific force account work day. A work day shall not exceed eight (8) hours (standby time plus the operating time) unless the Officer-in-Charge authorizes the overtime. Payment shall be at the hourly rate including the estimated operational cost per hour per working day.
- (iii) 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 Officer-in-Charge directs the discontinuance of the use of the machinery or equipment.
- (iv) Less than thirty (30) minutes of operation will be considered a half hour of operation.
- (v) 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 that the machinery or equipment was in operation.
- (vi) When force account work is completed within less than eight (8) hours, payment shall be for actual time worked.
- (vii) For the purpose of determining the rental period, the continuous and consecutive days shall be the normal 8-hour shift work day, Monday through Friday excluding Saturday, Sunday, and legal holidays. Any work day to be paid less than 8 hours shall not be considered as

continuous, except for equipment removed from rental for fuel and lubrication.

(viii) Overtime shall be paid for each hour in excess of the normal 8-hour shift work day at the corresponding hourly rate for daily, weekly, and monthly rates.

(4) Overhead and Profit: The percentages set forth in GCDB Section 3.3 (c) shall be applied to the totals calculated above in GCDB Section 5.9 (a) (1) through (3) and shall cover field office overhead, home office overhead, and profit including but not limited to project management, supervision, engineering, estimating, clerical support, trailer rental, waste disposal, postage, telephone, printing, utilities, small tools, storage sheds, and supervisors' and foreworkers' vehicles.

To the totals computed above, an amount not to exceed one percent (1%) will be added for increased bond costs upon the Contractor showing that it has incurred additional costs for bonding

(5) Payment for the above shall be deemed payment in full for work done under force account including superintendence, overhead, use of tools, machinery and equipment for which no rental is allowed, profit, taxes, subcontracting and other costs in connection therewith which are not provided for herein. No payment will be made until itemized records along with receipted invoices and appropriate documents have been submitted and approved.

(b) **Records.** The Contractor shall submit records of the above to the Officer-in-Charge at the end of each day on the "Daily Force Account Form" provided by HART. Such records submitted shall be subject to the approval of the Officer-in-Charge as evidenced by the Officer-in-Charge's signature thereon. The Contractor shall submit a statement covering the cost of all of the above items not later than the tenth day of the month following the month in which the costs were incurred.

END OF CHAPTER

Chapter 6 - Claims Procedures, Disputes and Remedies

6.1 Claims Procedures

(a) This Section outlines the exclusive procedure to be followed if the Contractor believes that it is entitled to additional compensation, additional Contract time or both. This Section applies to all claims for additional compensation and all requests for additional compensation and additional Contract time, regardless of whether the basis for the claim for additional compensation or request for additional Contract time, or both, stems from the performance of extra or additional Work, changed Work, excusable delays of any nature, or any other reason whatsoever.

(b) When the Contractor believes it is entitled to be paid more than that provided for in the Contract, the Contractor shall notify HART in writing within the time frame provided in appropriate sections of the Contract. A claim shall be made within thirty (30) days after giving written notice to HART. The claim shall include the following supporting documentation:

- (1) A description of the disputed change in condition that requires additional compensation or time;
- (2) A CPC or a detailed estimated amount of additional cost to HART or additional time required by the Contractor. An executed copy of Exhibit H of the General Conditions, Certification of Cost and Pricing Data, must accompany the CPC;
- (3) Contract provisions that support the claim; and
- (4) The date upon which the condition occurred or was observed.

(c) HART may request additional documentation from the Contractor at any time regarding a claim. Failure to provide additional documentation when requested and when such documentation exists constitutes a waiver of that portion of the claim to which the additional documentation relates.

(d) If the Contractor does not provide a timely written notice of a claim or timely file its claim for additional compensation or time, any subsequent claim for additional compensation, additional Contract time, or both, is waived.

(e) If HART agrees with the Contractor's request for additional compensation or Contract time, the parties shall negotiate a Change Order setting forth their agreement. If HART disagrees, the Contractor shall continue promptly with the Work, but may pursue remedies as set forth herein Chapter 6 of the General Conditions.

6.2 Dispute Resolution

(a) **Decision of the Officer-in-Charge.** Any question or dispute concerning any provision of the Contract, which may arise during the Contractor's performance shall be decided by the Officer-in-Charge; provided, that decisions on questions or disputes relating to default or termination of the Contract and claims greater than \$50,000 shall be made only with the approval of the Contracting Officer.

(b) All disputes between the Officer-in-Charge and the Contractor which arise under, or are by virtue of, the Contract and which are not resolved by mutual agreement between the Officer-in-Charge and the Contractor, shall be decided by the Contracting Officer in writing, within the time limitations below, after receipt of a written request from the Contractor for a final decision:

- (1) For disputes or for claims not exceeding fifty thousand dollars (\$50,000): ninety (90) calendar days after receipt of the claim.
- (2) For claims exceeding fifty thousand dollars (\$50,000): ninety (90) calendar days after receipt of the claim; provided that if a decision is not issued within ninety (90)

calendar days, the Contracting Officer shall notify the Contractor of the time within which the Contracting Officer will make the decision. The reasonableness of this time period will depend on the size and complexity of the claim and the adequacy of the Contractor's supporting data and other relevant factors.

- (3) If a decision on a controversy or a claim not exceeding fifty thousand dollars is not made within ninety (90) calendar days after receipt, or if a decision is not made within the time promised for a claim in excess of fifty thousand dollars, the Contractor may proceed as if an adverse decision has been received.
- (4) 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 and 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. [HAR 3-126-28]

(c) **Disputes involving HART claims against the Contractor.** All disputes involving claims asserted by HART against the Contractor which cannot be resolved by mutual agreement shall be the subject of a decision by the Contracting Officer or the Officer-in-Charge as applicable. [HAR 3-126-29]

(d) **Cost of dispute.** The Contractor shall pay to HART the amount of HART's costs, including but not limited to amounts for attorneys' fees, consultants' fees and expenses, if HART prevails on enforcement of the Contract or defense against claims against HART.

(e) **Decision.** The Contracting Officer shall immediately furnish a copy of the decision to the Contractor, by certified mail, return receipt requested, or by any other method that provides evidence of receipt. Any such decision shall be final and conclusive, unless fraudulent, or unless the Contractor brings an action seeking judicial review of the decision in a circuit court of this State **within (6) six months** from the date of receipt of the decision.

- (1) The Contractor shall comply with any decision of the Officer-in-Charge and Contracting Officer and proceed diligently with performance of the Contract pending final resolution by a circuit court of this State of any dispute arising under, or by virtue of, the Contract, except where there has been a material breach of contract by HART; provided that in any event the Contractor shall proceed diligently with the performance of the Contract where the Contracting Officer has made a written determination that continuation of work under the Contract is essential to the public health and safety. [Chapter 3-126, subchapter 3, HAR]

END OF CHAPTER

Chapter 7 – Commencement and General Performance Requirements for Design and Construction

7.1 General

7.1.1 Time is of the Essence

Time is of the essence, and the Contractor shall diligently perform and complete the Work in accordance with and within the time specified in the Contract.

7.1.2 Notice to Proceed

(a) **Notice to Proceed.** Upon execution of the Contract by the Contracting Officer, the Officer-in-Charge may schedule a pre-work conference and/or issue a written Notice to Proceed (NTP) to the Contractor designating the official commencement date for performance of the Work or for a phase of work under the Contract. HART reserves the right to issue multiple NTPs to authorize commencement for separate phases of the Work. Unless otherwise specified in the solicitation document, the NTP shall be issued within ninety (90) days after execution of the Contract by the parties, unless multiple NTPs are anticipated, or a later date is agreed to by mutual agreement.

(b) **Commencement of Work.** The Contractor shall not proceed with any part of the Contract at the project site and no performance on any work, including purchase of equipment or materials, will be allowed until: (1) the official commencement date designated in the NTP or (2) upon earlier written notice from HART to allow investigative, administrative, mobilization, or other preconstruction activities to proceed.

7.1.3 Overall Responsibility of the Contractor/Design-Builder

The Contractor has sole and exclusive responsibility and liability for the design, construction, and performance of the Work, notwithstanding any term, condition, or provision set forth in the Request For Proposal.

7.1.4 Standard Equipment

Whenever the word “standard” is used in the Contract to describe any item, piece of equipment, or parts assembly, it shall be construed to mean that the items or assemblies so described shall be the newest, regular, and current product of the manufacturer thereof. Such product shall be identified by a model or other designation without modification or omission of any of its usual parts, or the substitution of others, except as hereinafter specified, and the details, capacities and ratings must conform in every respect to the said manufacturer's catalog or other printed matter describing the items or assemblies. Standard sub-assemblies, accessories, fittings and finishes shall be construed to be those which are regularly furnished as a part of the principal unit or assembly and shall be included in the selling price thereof.

7.1.5 Quality of Goods

Unless otherwise specified, any goods required by the bid solicitation or the Contract shall be new and the best quality of its kind, and shall be goods of recognized manufacturers, unless otherwise specified in the Special Provisions, Contract Specifications, or other sections of the Contract Documents.

7.1.6 Free on Board (F.O.B.) Destination

Unless otherwise specified, offer and contract prices shall be based on delivery F.O.B. place of destination and shall include all freight, handling, delivery, and related charges.

7.1.7 Subcontracting; Specialty Work

(a) **Subcontract Relations.** The Contractor shall be responsible under the Contract for the acts and omissions of its subcontractors, suppliers, and persons either directly or indirectly employed by

them, as fully as the Contractor is for acts and omissions of its own employees. Nothing in the Contract shall create any contractual relation between any subcontractor or supplier and HART, or any obligation on the part of HART to pay any money to, or cause to be paid any money from any subcontractor or supplier.

(b) **Changes.** Except as provided for in the final Proposal or bid as accepted by HART, the Contractor shall not sublet or replace its subcontractors any of the Work to be performed without written permission from the Contracting Officer. The subcontracting shall not, under any circumstances, relieve the Contractor of the Contractor's obligation and liability under the Contract with HART. All persons engaged in performing the Work covered by the Contract shall be considered as agents of the Contractor, and shall be subject to the provisions thereof.

(c) **Specialty Work.** Specialty work may be performed only by the Person(s) holding the specialty license for that specialty work.

7.1.8 Permits, Licenses

(a) The Contractor shall obtain all necessary permits and licenses, pay all charges, fees, and taxes, give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the Work as drawn and specified. These may include, but not be limited to, demolition permit, building permit, dumping charges, grading permit, excavation permit, traffic permit, community noise permit, City park right-of-entry permit, National Pollutant Discharge Elimination System (NPDES) permit and compliance with Rodent Control Requirements on Demolition of Structures and Clearing of Sites and Vacant Lots. All costs and work under this subsection shall not be paid for directly but shall be considered incidental and included in the Offeror's Proposal prices for the various items of work.

(b) The Contractor represents that the Contractor is a business entity which is experienced and skilled in the design and construction of projects of the type described in the Contract and that the Contractor is licensed by the State of Hawaii to engage in the type of design and construction required by the Contract and is in compliance with all applicable laws and regulations.

(c) Where permits have already been applied for or secured by HART, a copy of the applications may be provided by HART to the Contractor for the latter's convenience; however the information provided in the application is intended to supplement rather than serve in lieu of the Contractor's permit application requirements. Any permits and/or attachments are not part of the Contract Documents.

(d) The Contractor shall assume full responsibility for determining that the jurisdiction through which its haul routes pass will permit the hauling operations with respect to laden weights, type of vehicle, frequency and dimensions of loads, required traffic control and hours of operation. All necessary permits, licenses or bonds shall be obtained and paid for by the Contractor. The unavailability of haul routes or limitations thereon shall not become a basis for claims, for damages or extension of time for completion of the Work.

7.1.9 Access and Inspection

(a) Circumstances under which HART may perform inspections include but are not limited to, inspections of the Contractor's, its subcontractor's, or supplier's plant, or site of the project in order to determine: [HAR 3-122-166]

- (1) whether the Contractor has or is maintaining the financial ability, resources, skills, capability, and business integrity necessary to perform the work;
- (2) whether the Contract is being performed in accordance within its terms;
- (3) whether the goods or services are acceptable by inspection of the goods or services;

- (4) whether the cost or pricing data and the Escrowed Bid or Proposal Documents by audit of its books and records pursuant to HAR Section 3-122-175 is accurate;
- (5) whether the Best Management Practices is being followed;
- (6) whether the Contractor is in compliance with all applicable consent decrees; or
- (7) whether or not to debar or suspend a person from consideration for award of contracts pursuant to HAR Sections 3-126-11 through 3-126-18.

7.1.10 Value Engineering Incentive

(a) The Contractor may develop and submit value engineering change proposals for drawings, designs, specifications, or other requirements of the Contract in accordance with HAR 3-132-1 et seq.. If any value engineering change proposal is accepted and approved, in whole or in part, by the Officer-in-Charge, the Contract shall be modified and shall include an equitable adjustment of the Contract price in accordance with this Section.

(b) This Section shall not apply to any cost reduction proposal that is not identified as a value engineering change proposal by the Contractor at the time of its submission to the Officer-in-Charge.

7.1.11 Guarantee

(a) This guarantee shall be deemed supplemental to guarantee provisions provided in other sections of the Contract Documents for the individual units and systems of units so specified. The Contractor warrants that all Work will be of good quality, free from fault or defect and in conformance with the Contract Documents. All Work not conforming to the foregoing requirements, including unapproved or unauthorized substitutions shall be considered defective. The Contractor also guarantees all materials and equipment furnished or installed under the Contract against defects and poor workmanship and to be in operable condition upon Final Acceptance of the Work or portions of the Work, and that all such materials and equipment conform to the requirements of this Contract and be fit for the use intended.

(b) All subcontractors' of any tier, manufacturers', and suppliers' warranties and guarantees, express or implied, respecting any part of the Work and all materials used therein shall be obtained and enforced by the Contractor for the benefit of HART without the necessity of separate transfer or assignment thereof. When directed by the OIC, the Contractor shall require subcontractors or any tier, manufacturers, and suppliers to execute separate warranties and guarantees in writing directly to HART.

(c) **Guarantee Period.** Unless otherwise specifically stated elsewhere in the Contract Documents that a longer period is intended, the guarantee shall extend for a period of one year upon Final Acceptance of the work by the Officer-in-Charge and shall include all labor, materials, equipment and parts. This period shall be extended from the time of correction of any defect or failure, corrected under the terms of this guarantee, for a like period of one year. The Contractor shall provide a new certificate of guarantee for the extended one-year period. Establishment of the time period of one year as described relates only to the specific obligation of the Contractor to correct work, and has no relationship to the time within which the obligation to comply with the Contract may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct work.

(d) **Correction.** The Contractor shall, at no additional expense to HART, promptly correct all defects or any Work performed that fails to conform to the requirements of the Contract Documents. The Contractor shall within seven (7) days following notification by HART of defective or nonconforming work replace or correct the defective work or provide a written plan satisfactory to HART indicating corrective action to be taken. Such Work shall be corrected even if previously inspected by

HART, payment for it was included in a progress payment, whether it was observed before or after the date of completion.

(e) **Noncompliance.** If the Contractor fails to perform corrective work in the manner and within the time stated, HART may proceed to have such work performed at the Contractor's expense, and the Contractor's sureties will be liable therefore. HART shall be entitled to reasonable attorneys' fees, consultants' fees and costs necessarily incurred by the Contractor's refusal to complete the Work and to pay such costs of corrective work.

(f) **Performance Bond.** Unless otherwise specifically stated elsewhere in the Contract Documents that a longer period is intended, the performance bond shall be in full force and effect for the duration of the Contract and for a period of one year after final acceptance of the Contract by the Officer-in-Charge.

(g) **Rights and Remedies.** The rights and remedies of HART 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.

7.1.12 ADA Compliance

The Contractor shall be responsible for all ADAAG compliance.

7.2 Interface Management and Coordination

7.2.1 General

This Section addresses the interface management and coordination processes between the Contractor and other H RTP interfacing contractors for all elements of the Work. Contractor is responsible for managing all interface coordination necessary to perform the Work throughout the life of the Contract. HART's CMS shall serve as the information distribution and archival system for all interface control documentation.

(a) Within the first forty-five (45) days of issuance of Notice to Proceed, HART will schedule a kickoff meeting with the Contractor to discuss HART's interface process requirements.

(b) HART's CMS shall serve as the information distribution and archival system for all interface documentation. Contractor shall, within 45 days after issuance of the Notice to Proceed, participate in training by HART to use HART CMS for interface applications for coordination, interface information exchange and as the archival system for all interface documentation.

(c) At a minimum, Contractor shall perform the following steps to ensure effective management of interface during the life of the Project:

- (1) **Interface identification**: This step includes identifying interface coordination activities, or interface points, that are necessary to complete the Work.
 - (A) Within thirty (30) days after issuance of a Notice to Proceed, meet with interfacing partners to identify potential interface points.
 - (B) Within sixty (60) days after issuance of a Notice to Proceed, provide an Interface Control Manual (ICM) to HART for review and acceptance. The ICM shall be prepared in conjunction with the interfacing partners to cover all aspects of the implementation of the interface efforts required. The ICM shall be mutually consistent with the other provisions of the Contract. The ICM will define the interface activities necessary to complete the Work in this contract. The ICM should be of sufficient detail for Contractor to ensure the proper identification, processing, and resolution of all relevant interface points. The ICM shall be updated by Contractor as needed, or as requested by HART, to reflect the current progress of the Work and to include any new interfacing partners.
 - (C) Within sixty (60) days after issuance of a Notice to Proceed, provide a draft list of interface points for review by HART and interfacing partners for concurrence. Provide a separate tabulation for each interfacing partner.
 - (D) An interface point is an element of design or construction requiring the exchange of information and agreement between two or more HART designers and/or contractors to ensure the integrated performance of the overall transit system. Contractor shall identify, in collaboration with their interfacing partners, all relevant interface points to successfully complete the work in accordance with the contract, in a timely manner. HART may provide and/or recommend interface points. Interface points may include but are not limited to:
 - (i) Design elements to be coordinated;
 - (ii) Design elements that require field verification of compliant construction;

- (iii) Previously established interface points provided by HART;
 - (iv) Physical construction interface points;
 - (v) Construction sequencing coordination;
 - (vi) Construction milestone inspection;
 - (vii) Site access/shared access;
 - (viii) Material delivery and storage;
 - (ix) Coordination requirements specified in the Contract Documents; and
 - (x) Testing of equipment, facilities, and track systems.
- (E) Interface identification will be an ongoing process through the life of the Project.
- (2) Interface Communication between interfacing Contractors: This step includes requesting and exchanging interfacing data and information for coordinating the work.
- (A) A Request for Interface Data (RFID) is a CMS-generated document that shall be used by Contractor and interfacing partner (construction contractors and/or designers) to request and/or provide information necessary to complete interface coordination.
- (i) RFIDs shall include attachments as necessary to accurately and thoroughly describe the information being requested or conveyed.
- (B) Contractor shall hold and/or participate in Interface Definition Meetings (IDM) to identify and resolve interface issues. The IDM will be held bi-weekly at a minimum with each interfacing partner. Contractor shall also hold and participate in workshops, on an ad hoc basis, to address any interface point(s) requiring special attention. HART will participate in these meetings and Contractor shall notify HART on a timely basis in advance of these meetings. Contractor shall provide meeting minutes to be distributed to all attendees for comment within twenty-four (24) hours after each meeting is held. Contractor shall post minutes to the interface module of CMS within seventy-two (72) hours after each meeting is held. Minutes shall contain the following:
- (i) List of attendees;
 - (ii) A summary of interface issues discussed;
 - (iii) Log of open RFIDs;
 - (iv) Identification of critical RFIDs (if any);
 - (v) Log of ICDs, including current status; and
 - (vi) Record of action items that document required action by the appropriate party.
- Minutes shall include attachments of documents or reference material discussed during the meeting.
- (3) Interface Documentation: This step includes documenting and confirming interface information.

- (A) Contractor shall memorialize the established initial interface points from their tabulation as line items on their Interface Control Documents (ICD) to be generated as described below:
- (i) The ICD shall serve to document the interface communication and coordination between interfacing parties and the resulting concurrence and closure of interface points.
 - (ii) **Design:** Contractor shall create draft ICDs for each design package. Draft ICDs shall be provided to HART with each design submittal. Final ICDs for each Final Design submittal shall be generated in CMS and submitted. Concurrence shall be documented on the Final Design ICDs by each interfacing partner's signature prior to HART's review of the design submittal.
 - (iii) **Construction:** Design elements that require field verification and other construction interface points shall be identified and memorialized in ICDs by Contractor prior to commencement of the associated construction phase. Contractor shall use CMS to generate and store ICDs. There shall be at least one ICD per interfacing partner. Prior to construction of any elements, the Contractor shall ensure that concurrence has been obtained and documented for the associated ICD line items (interface points) for that element.
 - (iii) The ICDs shall be a comprehensive list of all interface points within a design package or construction phase, and shall be unique to each partnership. Each ICD shall include a brief description of the interface point(s), and shall reference or attach corresponding RFIDs, design drawings, calculations, shop drawings, installation plans, construction specifications, standards, tolerances, procedures, as-built drawings, and any other documents necessary to demonstrate the requirements and fulfillment of the interface. Proper revision control identifiers and dates shall be shown on such referenced documents that are made part of the ICDs.
 - (iv) Contractor is responsible for the coordination and resolution of all interface points identified in the initial ICDs as well as those identified throughout the life of the Project. The ICDs shall be updated as needed to reflect new interface points as they are identified, to include any new interface partners, to status ongoing interface coordination, to update reference documents as necessary, to identify interface conflicts, and to document closed interface points.
- (4) **Interface Closeout:** This step is to confirm and document interface resolution and agreement.
- (A) The interface point is considered resolved and closed when both parties agree on the accuracy, full coordination, and completion of communicated information, design parameters, deliverables, and/or construction work, and is recorded as such.
 - (B) The ICDs will be the mechanism to record closed interface points, and concurrence with signature by both interfacing parties is needed for closure.

(C) As part of Project Closeout, Contractor shall provide the final updated version of the Interface Control Manual (ICM) and a compilation of all ICDs generated and maintained throughout the duration of the Work uploaded to CMS.

(d) Contractor shall coordinate and resolve all interface issues arising out of its Contract and provide documentation of all resolutions in accordance with this Section of the General Conditions. If an interface is not resolved prior to the Contractor proceeding with the Work associated with said interface, the Contractor shall be deemed to be proceeding with such Work at its own risk.

(e) If Contractor encounters an interface conflict that cannot be resolved by the Contractor's coordination with the interface partner, the Contractor shall notify HART immediately.

(f) Multiple iterations of technical coordination may be needed to assess requirements, evaluate alterations, and confirm feasibility, in order to fully resolve a given interface point in design, installation, or construction. Contractor is obligated to coordinate such communications as necessary, and in a timely manner, to achieve interface resolution.

(g) If the Contractor fails to provide necessary interface information or timely interface coordination, or if such information provided by Contractor is incorrect or subsequently changed by the Contractor and not coordinated, communicated, or interfaced accordingly, the Contractor shall be responsible for the cost of all facility and equipment redesign and construction rework, whether the impacted facility and equipment are the responsibility of Contractor or others. The Contractor shall notify HART immediately if any interface information obtained or provided is changed or found to be incorrect and may result in impact to the Work.

7.3 Protect Existing Utilities, Relocation of Utilities, New Connection Services

7.3.1 Contractor's Duty to Locate and Protect Utility

(a) The Contractor shall plan and execute its Work to prevent outages in existing utilities or disruption of service. Before beginning any Work at the worksite, the Contractor shall research, ascertain, and identify the exact horizontal location and depth of all utilities within the Project area where a conflict could occur with the proposed Work. The Contractor may probe for utilities at critical locations. The Contractor shall utilize the One-Call Center system, as required under HRS Section 297E-7, and may use electromagnetic locating systems, ground penetrating radar systems, or other utility locating systems, or research as-built information from the utility companies/agencies and other development/Project plans to obtain the utility information. The locations of existing utilities shown on the reference drawings are approximate and do not accurately reflect the exact location of all the utilities. It is the responsibility of the Contractor to thoroughly research and obtain information regarding the location and placement of existing and new utilities.

(b) The Contractor shall inform all personnel working near utilities with the type, size, location, and depth of the utilities, as well as the consequences that might result from disturbances. The Contractor shall take all actions necessary to protect the utilities and prevent service disruption.

(c) The Contractor shall be responsible for the protection of existing surface and subsurface utilities within and abutting the Project site that the Contractor encounters during the progress of the Work, including but not limited to telephone system, electric system, water system, sewer system, drainage system, gas system, cable system, and irrigation system, whether or not shown on the reference drawings. Such utilities shall not be disturbed or damaged, unless otherwise noted in the Contract Documents. Whenever the Contractor damages a utility or causes any interruption to any utility service, the Contractor shall promptly notify HART, the affected utility owner, and the appropriate governmental authorities. The Contractor shall be responsible for the safety and protection of the public and the utility. The Contractor shall cooperate with the affected utility owner and the appropriate governmental authorities in the restoration of service. The Contractor shall be responsible for all costs associated with the repair and restoration of service at no increase in Contract price or Contract time. Compensation to the utility company/agency for any repair work shall be made directly between the Contractor and the utility company/agency. The Contractor shall save harmless HART from all suits, actions or claims of any character brought on the account of the Contractor's damage to the utilities.

(d) All costs incurred as a result of performance of the Contractor's obligation under this Section shall be considered incidental to the Contract and included in the Contract price; no increase in the Contract price or time will be granted.

(e) **Damage to Sewer Facility.** The Contractor shall notify HART and the City and County of Honolulu Department of Environmental Services Collection System Maintenance Division immediately whenever a sewer facility is damaged. All costs incurred by HART caused by Contractor-related damages, such as sewer backups, spills, overflows, shall be billed to and paid by the Contractor. Any subsequent fines, imposed upon HART by the Environmental Protection Agency (EPA) and/or State Department of Health will be billed to and paid by the Contractor.

7.3.2 Utilities Relocation; New Connection Services

(a) **Contractor's Duty to Coordinate Utility Work.** For utilities relocation work and new connection services, the Contractor shall contact and cooperate with each affected utility owner in order for the design and construction Work to progress on schedule and without unreasonable disruption of such utility services. If the Work calls for permanent utility service installations or corrections to, or modifications of existing utilities, the Contractor shall schedule and coordinate such work with appropriate utility owners. If the Work required by the Contract Documents conflicts with the

instructions, demands, or requirements of a utility owner, the Contractor shall notify HART immediately. The Contractor shall furnish HART with evidence that the Contractor has provided all relevant utility owners reasonable opportunity to review the Design and Construction Drawings and Specifications prepared by the Contractor's engineer.

(b) **Utility Owners' Right to Enter.** The right is reserved to HART and the utility owner to enter upon the Project site from time to time to make such changes as may be necessary for the relocation of the utilities or to make necessary connections or repairs. The Contractor shall cooperate with and facilitate any necessary access to or on the Project site and shall conduct its operations in such a manner as to avoid delay or hindrance to any necessary work to be performed by others. When HART has a separate agreement with utility owners for work to be performed within the site, the Contractor shall coordinate the construction schedule and interfaces with the utility owners and make available all portions of the Work and the site necessary for the utility owners to do their work.

(c) **Utilities Relocation.** Where removal or relocation of known utilities is necessary to accommodate construction, the Contractor shall coordinate with the affected utility owner. The Contractor shall be responsible for the design and construction of the underground infrastructure, such as trenching, duct-lines, conduits, and hand-holes, but subject to approval by the affected utility owner. Such work involving the design and construction of the removal or relocation shall be performed at the Contractor's sole expense. All work performed and charged by the utility owner for utilities removal or relocation shall be paid by the Contractor, and the Contractor will be reimbursed the charged amount with no Contractor mark-up.

(d) **New Connection Services.** The Contractor shall be responsible for the design and construction of the underground infrastructure for the new service connection, such as trenching, duct-lines, conduits, and hand-holes, but subject to approval by the affected utility owner. Associated work requiring the design and removal of existing service connections shall also be performed at the Contractor's sole expense. All work performed and charged by the utility owner related to new connection services, including design, construction, inspection, and installation charges by the various public utility companies shall be paid by the Contractor, and the Contractor will be reimbursed the charged amount with no Contractor mark-up.

7.3.3 Known Utilities and Similar Facilities

(a) Where removal or relocation of known utilities is necessary to accommodate construction, such removal or relocation shall be performed at the Contractor's sole expense, unless it is specified in the Contract Documents that it will be performed by HART.

(b) Where the utility owner is identified as being responsible for removing or relocating utilities, such Work will be accomplished as the utility owner's convenience, either during or in advance of construction. If the Contractor discovers the presence of any utilities as the Project site, it shall immediately so notify HART in writing.

(c) The Contractor shall plan and execute its Work to prevent outages in existing utilities or disruption of service. Existing utilities shall be staked, marked, and potholed to verify location before excavation begins.

7.4 Escrowed Proposal Documents

7.4.1 General

(a) The Contractor shall have, in escrow, the Escrowed Proposal Documents (EPD) and provide an executed original of the Escrow Agreement (see Exhibit M) not later than the date specified in each solicitation.

(b) Upon Award of the Contract, designated representatives of HART and the Contractor shall jointly retrieve the EPD from the designated escrow agent, and shall deliver to HART one copy of the EPD for review. The Contractor, at its own expense, shall provide a fireproof cabinet to be placed in HART's offices, or, if the EPD is not too voluminous, the Contractor, at its own expense, may provide the EPD in a lock box. Alternatively, at the Contractor's option and at its sole expense, the EPD may remain with another depository or escrow acceptable to HART located in Honolulu. The secure EPD shall be held in HART's offices, with the key held by the Contractor. Concurrently with the submission of quotations or revisions to quotations provided in connection with formally proposed amendments to this Contract and concurrently with approval of each Change Order, if appropriate, one copy of all documentary information used in preparation of the quotation or Change Order shall be added to the cabinet to be held with the original EPD. The EPD shall be held in such cabinet until all of the following have occurred:

- (1) One hundred eighty (180) days have elapsed from Final Acceptance, expiration of Warranties, or termination of the Work, as applicable;
- (2) All disputes regarding this Contract have been settled; and
- (3) Final payment on this Contract has been made by HART and accepted by the Contractor.

7.4.2 Contents of the Escrowed Proposal Documents

(a) The EPD shall be detailed and complete, including necessary information from the Contractor's subcontractors and vendors, such that, in the event of any questions relating to the Contractor's pricing for this Project, change order, requests for price adjustment, review of claims, or dispute resolution, the EPD shall be sufficient and complete to assess the Contractor's pricing for this Project and justify the charges made on the change order, request for price adjustment and/or the claims. The cost basis and overhead rates for Contractor's Price Proposal shall be clearly apparent when reviewing the EPD.

- (1) Subcontractor and Supplier Pricing Documents. The Contractor shall require each subcontractor and/or supplier to submit to the Contractor a copy of all documentary information used in preparing its sub-bid or sub-proposal to be held by the same escrow depository which is holding the Escrowed Proposal Documents and which shall be accessible by the Contractor and its successors and assigns (including HART) and dispute resolvers on terms substantially similar to those contained herein. Each such subcontract shall include a representation and warranty from the subcontractor stating that its Escrowed Proposal Documents constitute all the documentary information used in preparation of its sub-bid or sub-proposal.

(b) The EPD shall clearly itemize the estimated costs of the design, materials, equipment, and performing the Work required by the Contract Documents. All Work shall be separated into sub-items as required to present a complete and detailed estimate of all costs. Crew, equipment, quantities, and rates of production shall be detailed. Estimates of costs shall be further divided into the Contractor's usual cost categories, such as direct labor, repair labor, equipment ownership and operation, expendable material, permanent material, and subcontract costs, as appropriate. Equipment and indirect costs shall also be

detailed in the Contractor's usual format. The Contractor's allocation of equipment, indirect costs, contingencies, markup, and other items to each direct cost item shall be clearly identified. The EPD shall include Exhibit F (Insurance Premium Worksheet) identifying their insurance costs pursuant to GCDB Section 4.2 (k)(7). The EPD shall include all assumptions, quantity takeoffs, rates of production and progress calculations, quotes from subcontractors and suppliers, memoranda, narratives, and all other information used by the Contractor to arrive at Bid or Proposal price or Change Order price, as applicable.

(c) In the event it is discovered upon review of the EPD that the EPD is not reasonably complete, this shall be deemed a breach of good faith performance of the Contract, resulting in great difficulty for HART to assess the cost breakdown, insurance costs, change order, request for price adjustment, and claims. In such an event, HART's independent cost estimate shall prevail, and in entering this Agreement, the Contractor has agreed to this arrangement, recognizing that the predicament has resulted from the Contractor's failure to provide the necessary information required in the EPD.

(d) The Schedule of Values, as defined in the Contract, shall be included as a part of or supported by the EPDs.

7.4.3 Availability for Review

(a) The EPDs shall be available during business hours for joint review by the Contractor and HART, within two (2) business days upon request by HART to review the EPDs. HART may at any time conduct a review of the EPDs to determine whether they are complete. Without waiving its right to enforce GCDB Section 7.4.2(c), in the event HART determines that any data is missing, HART may request and Contractor shall provide such data within three (3) business days of the request, and at the time it will be date stamped, labeled to identify it as supplementary EPD information, and added to the EPDs. HART shall be entitled to review all or any part of the EPD in order to satisfy itself regarding the applicability of the individual documents to the matter at issue. HART shall be entitled to make and retain copies of such documents as it deems appropriate in connection with any such matters, provided that HART has executed and delivered to the Contractor a confidentiality agreement specifying that the EPDs will be kept confidential; that copies of such documents will not be distributed to any third parties other than HART's agents, attorneys, and experts, and other dispute resolvers hereunder; and that all copies of such documents (other than those delivered to the dispute resolvers) will be either destroyed or returned to the locked cabinet upon final resolution of the negotiations or disputes. The foregoing shall in no way be deemed a limitation on HART's discovery rights with respect to such documents.

(b) At HART's option, which may be exercised at any time, the EPDs associated with any Change Order or Contract amendment shall be reviewed, organized and indexed in the following manner: Representatives of HART's and the Proposer shall organize the EPDs, labeling each page so that it is obvious that the page is a part of the EPDs and so as to enable a person reviewing the page out of context to determine where it can be found within the EPDs, and shall compile and index listing each document included in the EPDs and briefly describing the document and its location in the EPDs. HART shall have a right to retain a copy of the index. If, following the initial organization, HART determines that the EPDs are incomplete, and without waiving its right to enforce GCDB Section 7.4.2(c), HART may require the Proposer to supply data to make the EPDs complete.

7.4.4 Proprietary Information

The EPD shall be labeled "CONFIDENTIAL." The EPD is, and shall always remain, the property of the Contractor, subject to HART's right to review the EPD as provided herein. HART acknowledges that the Contractor may consider that the EPD constitutes trade secrets or proprietary information. This acknowledgment is based upon HART's understanding that the information contained in the EPD is not

known outside the Contractor's business. The EPD will at all times be treated as proprietary and confidential information and will be used only for the purposes described herein.

7.4.5 Representation

(a) The Contractor represents and warrants that the EPD provided with the Proposal constitutes all of the information used in the preparation of its Proposal and agrees that the information contained in the EPD shall be utilized in resolving disputes or claims. The Contractor also agrees that the EPD is not part of the Contract and that nothing in the EPD shall change or modify the Contract.

(b) The Contractor shall have no right to add documents to the EPD, except as provided in GCDB Section 7.4, or upon HART's request.

(c) The Contractor represents and warrants that the Escrowed Proposal Documents related to the Proposal have been personally examined prior to delivery to escrow by an authorized officer of the Contractor and that they meet the requirements of GCDB Section 7.4.2 and are adequate to enable a complete understanding and interpretation of how the Contractor arrived at its Price Proposal. The Contractor further represents and warrants that the Escrowed Proposal Documents related to each Change Order will be personally examined prior to delivery to escrow by an authorized officer of the Contractor and that they meet the requirements of GCDB Section 7.4.2 and will be adequate to enable a complete understanding and interpretation of how the Contractor arrived at its Change Order price.

7.5 Character of Workers and Key Personnel

7.5.1 Use of Qualified Workers

(a) **Skilled Workers:** The Contractor shall employ only persons who possess sufficient skill and experience required to properly perform the Work assigned to them. When required by HART, whose decision is final, the Contractor shall replace any worker or employee who lacks the skill to perform the Work assigned to the worker or employee or is discourteous or disorderly while performing such Work. If acceptable to HART, a person who has been replaced may be assigned other Work on the Project. Any such acceptance by HART does not relieve the Contractor from performing the Work in accordance with the Contract Documents and taking full responsibility of all actions by its workers or employees.

(b) **Specialized Workers:** All Workers 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 the Work. All Workers shall make due and proper effort to execute the Work in the manner prescribed in the Contract Documents.

(c) **Insufficient Workers:** Should HART find that the Work is not on schedule, the Contractor shall adjust its resources to bring the Work back on schedule at no additional cost to HART.

7.5.2 Key Personnel and Project Organization

(a) The Contractor shall provide key personnel to fulfill the requirements of the Contract. Such personnel identified in the Contract Documents shall be dedicated to fulfill all Contract obligations.

(b) **Personnel Directory:** Within fifteen (15) days after NTP, the Contractor shall submit to HART a directory and organizational chart including resumes of all key personnel. The directory shall be updated throughout the Contract as changes occur. The directory shall include the names, titles, areas of responsibility, office address, office telephone, fax numbers, and cellular and/or pager numbers of key personnel. The Contractor must provide information that will enable HART to contact any of the key personnel on a 24-hour basis during Contract duration. The directory shall be incorporated into the Quality Assurance Plan.

(c) **The Key Personnel positions are as follows:**

- (1) **Corporate Project Principal (or "Project Principal"):** This individual is specified by name in the Contractor's organization diagram as the Contractor's Corporate Project Principal responsible for managing the Project and authorized to make Contract commitments (if not delegated to the Project Manager) and to resolve disputes.
- (2) **Project Manager:** The Project Manager shall serve as the Contractor's full-time, dedicated, on-site manager for the Project, representing the Contractor as the single point of contact for the duration of the Contract. The Project Manager should have demonstrated experience on Design-Build projects of similar size, complexity, and with similar challenges as this Project. The Project Manager shall be located on or near the Project site for the duration of the Contract.
- (3) **Design Manager:** The Design Manager shall be a Hawaii-registered professional engineer or a registered professional architect, or shall cause those in responsible charge of their respective disciplines to be Hawaii-registered professional engineers or Hawaii-registered professional architects, who is an employee of the Contractor's primary design firm. The Design Manager shall have demonstrated experience in

managing design for multi-disciplinary transportation and/or transit projects with similar scope and complexity as this Project and shall have Design-Build experience.

- (4) Construction Manager: The Construction Manager shall serve as the Contractor's full-time, dedicated, on-site manager for the construction phase of the Project. The Construction Manager should have demonstrated experience on design-build projects of similar size, complexity, and with similar challenges as this Project. The Construction Manager shall be located on or near the Project site for the duration of the construction phase of the Contract.
- (5) Quality Manager: The Quality Manager shall have a minimum of five (5) years of experience in Quality Assurance/Quality Control activities, including preparation and implementation of Quality Assurance Plans and procedures for design and construction. The Quality Manager should have demonstrated experience on Design-Build projects of similar size, complexity, and with similar challenges as this Project. The Quality Manager shall interface and coordinate with HART and provide independent Quality Assurance/Quality Control services as set forth in GCDB Section 7.11, Quality Assurance.
- (6) Safety and Security Specialist: The Contractor's Safety and Security Specialist shall be a full-time professional on the project and who shall conduct and document daily safety inspections. Unless otherwise approved by HART, the Safety and Security Specialist shall have no duties other than occupational safety, health and security management, inspections, and enforcement of the Contract. The Safety and Security Specialist is responsible, at a minimum, to perform for occupational safety, health and security management, surveillance, safety inspections, and enforcement for the Contractor. The Contractor's Safety and Security Specialist shall:
 - (A) Report to the Contractor's corporate management or the senior management person on the Contract Project and not to subordinates or line supervisors;
 - (B) Have a minimum of five (5) years of construction safety experience;
 - (C) Have a minimum of five (5) years of experience implementing OSHA programs for construction projects of similar size and scope and as a roadway (highway) safety technician or supervisor;
 - (D) Make best efforts to obtain the following certifications, although not required: Certified Safety Professional (CSP), Construction Health and Safety Technician (CHST), and Certified Industrial Hygienist (CIH);
 - (E) Shall be a Work Zone Safety Supervisor as certified by the American Traffic Safety Service Association or any HART or firm certification program approved by HART;
 - (F) Provide documentation showing completion of the 30-hour OSHA Construction Outreach Course within the past three years of application as key personnel;
 - (G) Have completed a 30-hour OSHA course on Construction Safety and Health;
 - (H) Have attended Competent Person Level training in fall protection, excavation and trenching, confined space, rigging and hand signaling for cranes within the past five (5) years of application as key personnel;

- (I) Provide documentation showing current certification in CPR and Standard First Aid;
 - (J) Be familiar with the Work being performed and be competent to instruct others;
 - (K) Be knowledgeable with the Contractor's Contractor Health and Safety Plan (CHASP) and Site Safety and Security Plan (SSSP) and be responsible for the management and implementation of the SSSP as required by the Construction Safety and Security Plan (CSSP);
 - (L) Shall manage and oversee the Contractor's compliance with the HART Safety and Security Certification Plan. Shall ensure the completion of the Contractor's activities for achieving safety and security certification for all identified certifiable elements and manage the required documentation management system; and
 - (M) Shall have a minimum of five (5) years of experience working with safety and security certification programs.
- (7) Project Controls Manager: The Project Controls Manager shall have a minimum of five (5) years of experience as a Project Controls Manager and have demonstrated experience in project controls for Design-Build projects with similar scope and complexity as this Project.
 - (8) Contractor Interface Manager: The Contractor Interface Manager shall have a minimum of five (5) years of interface experience in projects with similar scope and complexity as this Project.
 - (9) Environmental Compliance Manager: The Environmental Compliance Manager shall have demonstrated experience related to environmental compliance monitoring and reporting during design, construction, and post-construction activities and have experience preparing and reviewing pre-construction assessments.
 - (10) Public Involvement Manager: The Public Involvement Manager shall have at least five (5) years of experience planning, organizing, developing, and implementing public/community outreach and information programs. In serving as liaison between the public and governmental agencies, the Public Involvement Manager should have skills in listening and responding to community concerns and questions and using tact and diplomacy in dealing with sensitive situations and upset individuals is desirable. Should have knowledge, skills, and abilities in:
 - (A) Addressing issues of public concern and conflict;
 - (B) Developing materials such as news releases, fact sheets, flyers for both community and media audiences;
 - (C) Public notification and record keeping protocols; and
 - (D) Technical knowledge of construction projects.

(d) **Substitution of Key Personnel:** The Contractor shall not permanently substitute key personnel without giving HART notice of the substitution, along with the qualifications of the substitute. Notwithstanding the procedures set out herein, HART will have no obligation to consider or approve a request to substitute, but may, at its sole discretion, reserve the right to disapprove a substitution.

- (1) Proposed Replacements: If the Contractor must add, delete, or substitute any key personnel or a major subcontractor, the Contractor shall submit to HART notice at least thirty (30) days in advance of any desired replacement with the qualifications of the addition or substitute along with the reason for proposed change.

In the event of an authorized substitution, the Contractor shall be liable for all cost increases to the Project caused by the replacement of the key personnel.

(e) Temporary Absence of the Project or Construction Manager, Safety and Security Specialist, or Quality Manager. If the Project/Construction Manager, Safety and Security Specialist or the Quality Manager is to be absent from the Project site for more than forty-eight (48) hours, HART shall be informed in writing at least five (5) days in advance of the person temporarily substituting these key persons.

7.5.3 Other Responsibilities within the Contractor's Organization

The Contractor is responsible to provide additional qualified personnel able to provide services associated with, but not limited to, environmental compliance, interface, project controls, estimating, and scheduling in order to meet the requirements and deliverables set forth in the Contract Documents. While these positions are not considered key personnel, the Contractor shall staff the Project adequately to comply with the requirements of the Contract.

7.6 Design and Construction Progress Documentation

7.6.1 General

(a) Scheduling of Work performed by the Contractor under this Contract shall be in accordance with the requirements of this Section.

- (1) The requirements specified herein are established to ensure adequate planning, scheduling, management, and execution of the Work by the Contractor and to enable HART to evaluate progress and validate the Contractor payment requests.
- (2) Development of the Baseline Project Schedule (BPS), cost and resource loading of the BPS, monthly Project Schedule Updates, payment requests, and Project status reporting requirements of the Contract shall employ computerized Critical Path Method (CPM) scheduling, using Primavera P6 Professional Project Management Version 8.3 or later (hereafter referred to as "Primavera" or "P6").
- (3) Submit schedules and reports as specified in this Section, but at a minimum once per month with the Contractor's payment request.
- (4) The Contractor shall follow HART's guidelines regarding required Project coding structure, Work Breakdown Schedule (WBS) dictionary and terminology, and Primavera Methodology.
- (5) The Baseline Project Schedule shall be based on and incorporate Contract milestones and completion dates specified in the Contract Documents. In addition, the Contractor shall establish intermediate milestones as necessary to develop the BPS. Such intermediate milestones must be submitted and accepted by HART before they can be incorporated in the Contractor's BPS or subsequent updates to the BPS.
- (6) The Baseline Project Schedule shall be the basis for evaluating job progress, payment requests, and time extension requests. Responsibility for developing the BPS and maintenance of the updated current Project Schedule to monitor actual progress against the Baseline Project Schedule (BPS) rests with the Contractor. Failure to produce and maintain schedules in accordance with this Section and that accurately reflect the true progress of the job may result in HART withholding authorization of progress payment requests.
- (7) Failure of the Baseline Project Schedule to include any element of the Work or any inaccuracy in updates to the Project Schedule will not relieve the Contractor from responsibility for accomplishing the Work in accordance with the Contract. HART's acceptance of the BPS and updates to the Project Schedule shall be for use in monitoring and evaluating job progress, payment requests, and time extension requests, and shall not, in any manner, impose a duty of care upon HART, or act to relieve the Contractor of its responsibility for means and methods of construction.
- (8) A Scheduler shall be employed by the Contractor, who shall have a minimum of five years' experience using automated scheduling systems. The Scheduler shall cooperate with HART's Project Control staff and shall be available for the purpose of continuously monitoring and maintaining the Contractor's detailed construction scheduling program. Within fifteen (15) calendar days after Contract Award, the Contractor shall submit to HART the Scheduler's resume of experience as a construction project Scheduler, including at least four personal references who have had experience with the individual as a construction project Scheduler. HART has the right to refuse to accept the Contractor's proposed Scheduler based upon lack of

experience as required in this specification. If HART refuses to accept the Scheduler proposed by the Contractor, the Contractor shall provide another Scheduler who meets experience requirements stated herein within fifteen (15) calendar days of receiving HART's denial.

- (9) Contract time extensions for Contract performance will be granted only to the extent that delays or disruptions to affected Work paths exceed total float along those paths of the current and updated Project Schedule approved by HART in effect at time of the delay or disruption. Such delays or disruptions must also cause the end date of Work to exceed the current Substantial Completion Date and must be beyond the control and without fault or negligence of the Contractor or any Contractor's subcontractor at any tier.
- (10) Early Project completion (as in the difference between early completion and contract date) is float to the benefit of the Project.

(b) Baseline Project Schedule (BPS)

The Contractor shall develop, submit, and maintain a cost-loaded Baseline Project Schedule (BPS) within 30 days after NTP to effectively manage and control the performance of the Work. The BPS shall represent the Contractor's plan to complete the Work within the Contract time. Contractor may begin construction when the design is signed, stamped, and submitted to HART, reviewed and approved and accepted by the Contractor's Quality Control Manager. The BPS shall logically incorporate all design and construction activities for the entire Project under this Contract. In addition to the logical design and construction activities, the BPS shall also include the times for procuring materials and equipment, Contractor quality control, acceptance testing, and training. If any construction activity requires HART review, that submittal review time shall be included in the BPS. BPS Requirements include, but are not limited to, the following:

- (1) The BPS shall include required milestones.
- (2) HART's WBS shall be incorporated into the BPS.
- (3) The CPM shall be extracted, identifying the BPS critical path and longest path.
- (4) Use of float-suppression techniques such as preferential sequencing or logic, special lead/lag logic restraints, and extended activity time or duration are prohibited. Use of any network technique solely for purpose of suppressing float shall be cause for rejection of schedule submittal.
- (5) The Contractor shall provide the BPS electronically in Primavera (.xer) and Adobe (.pdf) formats. The diagram shall clearly show activities on the critical path, including the following for each activity:
 - (A) Activity ID;
 - (B) Activity Description;
 - (C) Original Duration in Work Days;
 - (D) Remaining Duration;
 - (E) Percent Complete;
 - (F) Early Start Date;
 - (G) Early Finish Date; and

- (H) Total Float.
- (6) The activity codes as described below shall be included in the BPS.
- (7) At a minimum, the Contractor shall establish activity codes for each of items listed below. Once established, activity codes and values cannot be changed without approval of the Officer-in-Charge:
 - (A) **Phase:** All activities shall be assigned a 4-digit code value based on the phase of the Work it occurs in.
 - (B) **Area Code:** All activities shall be assigned an area code value identifying the area in which the activity occurs. Activities shall not belong to more than one area. "Area" is defined as a distinct space, function or activity category.
 - (C) **Work Item:** All activities in the BPS shall be assigned a 4-digit Work Item Code value.
 - (D) **Location:** Assign a 4-digit location code value to all activities to identify the location within the Area or Work Item that an activity is occurring.
 - (E) **Responsibility Code:** All activities in the BPS shall be identified with the party responsible for completing the task. Activities shall not belong to more than one responsible party.
 - (F) **Project Start Date Milestone:** The first activity on the schedule is "Contract Execution," which shall have a mandatory start constraint equal to the Contract execution date (when all parties have executed the Contract); that is, the first activity shall be the Contract execution date.
 - (G) **Projected Substantial Completion Milestone:** The BPS shall include an unconstrained finish milestone entitled, "Project Substantial Completion." Final Acceptance and Contract Completion Date milestone must be its only successor.
- (8) Other requirements of the BPS shall include, without limitation, as follows:
 - (A) Construction activities are to be shown in work days (material procurement can be in calendar days.);
 - (B) Design activities, including design decision points, design development, final design, and any critical path activities for fast-tracked phases are to be shown in work days;
 - (C) Neither shop drawings development nor procurement activities shall be cost loaded. Progress payments will be made for installed work only;
 - (D) The BPS shall not have any activity with a duration longer than 20 working days, with the exception of submittal review/approval, material fabrication/procurement activities, unless otherwise approved by HART. Activity duration shall equal total number of actual working days required to perform that activity, excluding weekends, holidays, and non-work periods;
 - (E) Show contract milestones and completion dates. At a minimum, show project start date milestone, Substantial Completion Date, Contract Completion Date, Final Acceptance milestones, constraints, sequence of work and operational restrictions specified in the Contract;

- (F) Identify as separate activity, HART-furnished materials and equipment, if any;
- (G) Approvals, tests or inspections required by or performed by regulatory agencies or other third parties;
- (H) Dependencies (or relationships) between activities;
- (I) All sample submittals, sample review/approval, procurement, manufacture, manufacturer test, test report preparation, delivery and installation activities, for all major materials and equipment;
- (J) Show procurement of major equipment, through receipt and inspection at job site, as a separate activity. Include time for fabrication and delivery of manufactured products for Work and dependencies between procurement and construction activities;
- (K) Include in the activity description what Work is to be accomplished and where. Use the Primavera Log for additional descriptive information if required;
- (L) Cost loading shall consist of the total contract price of performing each activity and the budgeted quantity associated with that price. This data will correspond directly with the tabular schedule which will form the basis of monthly payment requests. The sum of prices for all activities shall equal Contract price;
- (M) Identify the activities that constitute the controlling operations or critical path. No more than twenty-five percent (25%) of the activities shall be critical or near critical. Near critical is defined as float in the range of one (1) to ten (10) working days;
- (N) Show the interface with Work of other contractors, HART, and other agencies such as utility companies, including access to and availability of Work areas;
- (O) With the exception of the Contract execution and Contract Completion Date milestone activities, no activity shall be open-ended. Each activity shall have predecessor and successor ties;
- (P) Once an activity exists on the schedule it may not be deleted or renamed to change the scope of the activity and shall not be removed from the schedule logic without approval of the Officer-in-Charge. The ID number for a deleted activity shall not be re-issued for another activity;
- (Q) Plan for phased or total takeover/occupancy by HART;
- (R) Submit a written narrative discussing basic assumptions, detailed activities, restraints, productivity and installation rates, construction staging plans, maintenance of traffic, quantities, potential problem areas, permits, construction equipment planned, construction phases being considered, and other elements related to developing the BPS;
- (S) Submit a written design narrative discussing basic assumptions, detailed design activities, restraints, productivity and installation rates, construction staging plans, maintenance of traffic, quantities, potential problem areas, permits, construction equipment planned, any fast-tracked design and construction phases being considered, other elements related to developing the schedule, and a list of anticipated non-working days, such as weekends and holidays.

The schedule shall exclude in its working day calendar all non-working days on which Contractor anticipates critical Work not be performed;

- (T) Contractor shall distribute the BPS to subcontractors for review and written acceptance; and
- (U) Include safety and security certification activities, including milestones indicating the completion of Conformance Checklists.

Submittal of the BPS and subsequent schedule updates, shall be understood to be the Contractor's representation that the schedule meets requirements of the Contract and that the Work shall be executed in sequence on the schedule.

(c) **Schedule Acceptance Prior to Start of Work**

- (1) The Contractor shall schedule a preliminary meeting after Contract execution to discuss the proposed schedule and requirements prior to the Contractor preparing the BPS.
- (2) HART's review and comments to the Contractor's BPS shall not relieve the Contractor from compliance with requirements of the Contract. Submittal of an "early completion" schedule will not obligate HART for delay damages resulting from an event that delays the "early completion" but does not delay the Contract completion date.
- (3) The Contractor's submittal of the BPS shall be a condition precedent to starting construction Work under the Contract and acceptance of the BPS shall be a condition precedent to processing the Contractor's pay request for activities of Work items Completed.
- (4) Submittal of the BPS and subsequent updated Project schedules shall be understood to be the Contractor's certification that the submitted schedule meets all of the requirements of the Contract, represents the Contractor's plan on how the Work shall be accomplished, and accurately reflects the Work that has been accomplished and how it was sequenced (as-built logic).

(d) **Scheduling Software; Software Settings and Restrictions**

- (1) Software for Scheduling. Project schedules shall be prepared and maintained using Primavera P6 or later version as directed by HART. Importing data into P6 using data conversion techniques or third party software will be cause for rejection of the submitted schedule.
- (2) Software Settings and Restrictions.
 - (A) **Activity constraints:** Date/time constraints, other than those required under the Contract, will not be allowed, unless accepted by the Officer-in-Charge.
 - (B) Identify any constraints proposed and provide an explanation for the purpose of the constraint in the schedule narrative report.
 - (C) **Default Progress Data Disallowed:** Actual start and actual finish dates on the CPM schedule shall match the dates on the Contractor Quality Control and production reports.
 - (D) Scheduling calculations and out-of-sequence progress, if applicable, shall be handled through "Retained Logic," not "Progress Override." All activity

durations and float values will be shown in Work days. Activity progress will be shown using “Remaining Duration.” Default activity type will be set to “Task Dependent.”

- (3) Baseline Project Schedule Settings and Parameters. The following settings and parameters shall be included in preparing the BPS, however, may be changed or added by HART during the term of the Contract:
- (A) **General:** Calendars and Activity Codes should be defined or established at the “Project” level, not “Global” level;
 - (B) The “Time Periods” tab under “Admin Preferences” should be set as follows:
 - (i) Time periods for P6 should be set to 8.0 hours/day, 40.0 hours/week, 172.0 hours/month and 2000 hours/year; and
 - (ii) The “Allow users to specify the number of work hours for each time period” should be unchecked.
 - (C) Under the “Project Level, Date” tab, set “Must Finish By” date to “Contract Completion Date.”
 - (D) Under “Project Level, Default” tab, set as follows:
 - (i) Duration Type: Set to “Fixed Duration & Units;”
 - (ii) Percent Complete Type: Set to “Physical;”
 - (iii) Activity Type: Set to “Task Dependent;” and
 - (iv) Calendar: Set to “Standard 5 Day Workweek.” The calendar shall reflect Saturday, Sunday, Federal and State holidays, and all non-work days. Alternative calendars may only be used with the Officer-in-Charge’s approval.
 - (E) The “Project Level, Calculations” tab should be set as follows:
 - (i) “Activity percent complete based on activity steps” should be checked;
 - (ii) “Reset remaining duration and units to original” should be checked;
 - (iii) “Subtract actual from at completion” should be checked;
 - (iv) “Recalculate actual units and cost when duration % complete changes” should be checked;
 - (v) “Update units when costs change on resource assignments” should be checked; and
 - (vi) “Link actual and actual this period units and cost” should be checked.
 - (F) The “Project Level, Settings” should be set as follows:
 - (i) “Define critical activities;” and
 - (ii) Check “Total float as the longest path.”
 - (G) The “Work Breakdown Schedule Level, Earned Value” tab should be set as follows:
 - (i) Under “Technique for computing performance percent complete,” select “Activity percent complete”;

- (ii) Under “Technique for computing estimate to complete (ETC),” select “ETC = remaining cost for activity.”

(e) **Required Tabular Reports**

The following reports shall be included with the BPS and updated Project Schedules:

- (1) Log Report: Provide a log report that lists all changes made between the previous schedule and current updated schedules.
- (2) Narrative Report: Each entry in the narrative report will cite the respective Activity ID and Activity Description, the date and reason for the change, and the description of the change. Each narrative report shall identify and justify:
 - (A) Progress made in each area of the Project;
 - (B) Critical path;
 - (C) Date/time constraint(s) other than those required by the Contract;
 - (D) Changes in the following:
 - (i) Added or deleted activities;
 - (ii) Original and remaining durations for activities that have not started;
 - (iii) Logic;
 - (iv) Milestones;
 - (v) Planned sequence of operations;
 - (vi) Critical path; and
 - (vii) Cost loading.
 - (E) Any decrease in previously reported activity earned amount;
 - (F) Pending items and status thereof, including permits, change orders, and time extensions;
 - (G) Status of Contract Completion Date and interim milestones;
 - (H) Current and anticipated delays (describe cause of delay and corrective actions); and
 - (I) Description of current and future schedule problem areas.
- (3) Earned Value Report: All listed activities shall be cost-loaded and have a budget amount. The earned value report shall include the compilation of total earnings on the Project from the Notice to Proceed to the current progress payment request. The report shall show the current budget, previous physical percent complete, to-date physical percent complete, previous earned value, to-date earned value and cost to complete on the report for each activity.
- (4) Schedule Variance Control (SVC) Diagram: With each schedule submission, Contractor shall provide a SVC diagram showing: (A) cash flow s-curves indicating planned project cost based on projected early and late activity finishing dates, and (B) earned value to date. The cash flow s-curves shall be revised when the Contract is modified or as directed by the Officer-in-Charge.

(f) **Current Project Schedule**

- (1) Following the acceptance of the Contractor's BPS, the Contractor shall monitor progress of the Work and adjust the schedule each month to reflect accurate progress. The monthly updated schedule submission shall be referred to as the current or updated Project Schedule.
- (2) The Contractor shall schedule and meet with HART (monthly) to discuss the current Project Schedule, progress of the Work, and any potential changes to the current Project Schedule. The Contractor shall submit all changes to HART for acceptance before such changes are incorporated into the current Project Schedule. Contractor shall also bring to HART's attention the minor changes to the current Project Schedule that affect the sequences or durations. The current Project Schedule shall be updated monthly with progress (actual start dates, actual finish dates, remaining duration, and percent complete). The end of the monthly period shall be the last Friday of each month. The submission of an acceptable, Project Schedule to HART is a condition precedent to the processing of Contractor's pay request. An acceptable, updated Project Schedule shall be submitted to HART regardless of whether a Contractor's pay request will be submitted electronically for the given period. The Contractor shall submit the updated current Project Schedule with the Request for Payment and shall include:
 - (A) Time-scaled logic diagram; and
 - (B) Reports listed in GCDB Section 7.6.1(e), Required Tabular Reports.

7.6.2 Project Schedule Revisions

- (a) Updating the current Project Schedule to reflect the actual progress shall not be considered a revision to the schedule. Since scheduling is a dynamic process, revisions to activity duration, percent complete and sequence are expected on a monthly basis.
- (b) Only when revisions to the Project Schedule are necessary, the Contractor shall provide to HART with a written justification including full description and reason(s) for each work activity. For revisions affecting the sequence of work, the Contractor shall provide a schedule diagram comparing the original sequence to the revised sequence of work.
- (c) Pending change orders shall not be incorporated into the Project Schedule. Only after a Change Order has been approved can the changes to the schedule be made and coded as such.
- (d) Schedule revisions shall not be incorporated into any schedule updates until HART has reviewed and approved the proposed changes.

7.6.3 Time Impact Analysis; Recovery Schedule

- (a) Contractor shall submit a Time Impact Analysis (TIA) with each cost and time proposal for each proposed change. The TIA shall illustrate the impact of each change or delay on the Contract Completion Date or milestones. In addition to the limitation of delay damages provided in the Contract, the Contractor shall not be granted any time extensions or delay damages paid unless a delay occurs which consumes all available Project Float, extending the Projected Finish beyond the Contract Completion Date.
- (b) If the Contractor experiences or anticipates a delay greater than thirty (30) days in a specific activity or group of activities from the BPS, the Contractor shall provide a recovery schedule for those activities before the next payment request and provide a narrative of cause and corrective actions taken.

(c) If the Contractor experiences or anticipates a delay greater than 60 days in a specific activity or group of activities from the BPS, and if the Contractor is not able to recover the delay, the Contractor shall re-baseline the BPS and provide a narrative of cause and corrective actions taken.

7.6.4 Float

(a) Project Float is the length of time between the Contractor's projected contract completion date (i.e., Contractor's Early Finish Date) and the Contract Completion Date as established in the Contract.

(b) Schedule Float should not be for exclusive use or benefit of either HART or Contractor but is an expiring resource available to both parties on a non-discriminatory basis. Float shall be used by either party, as needed to meet Contract milestones and Contract completion dates.

7.6.5 Schedule of Values; Periodic Payment Schedule

(a) The Contractor shall extract from the BPS a Schedule of Values with projected monthly payment schedule for the life of the Project with a breakdown of the Price Items and Values of the Work to be provided under the Contract.

(b) The Contractor shall provide a projection of the monthly payment schedule for the life of the Project, referred to here as the Periodic Payment Schedule (PPS). The PPS should reflect the Project Schedule and the estimated value of the Work to be completed on a monthly or periodic basis. The PPS cumulative value shall not exceed the Total Contract Amount. The Contractor shall update and revise the PPS prior to the next pay request. Failure to make corrections will delay processing of the pay request and the periodic payment, and HART shall not be liable for any interest resulting from the delay.

- (1) The cost-loaded BPS will provide the basis for periodic payments and will include:
 - (A) Costs for material/equipment paid for after installation, labor and construction equipment assigned to their respective construction activities (see "Activity Categories" above);
 - (B) The value of inspection/testing activities shall not be less than 10% of the total costs for procurement and construction activities (see "Activity Categories" above);
 - (C) The Contractor's overhead and profit to each activity shall be evenly dispersed over the duration of the Project;
 - (D) Each cost-loaded activity shall have a detailed quantity breakdown and unit of measure; and
 - (E) Costs for incremental design preparation shall be assigned to the respective design phases.

(c) Contractor shall support and provide periodic special schedules as may be necessary for HART to report Contract status to the FTA.

7.6.6 Look Ahead Schedules

(a) Contractor shall prepare rolling "Look Ahead" Schedules for each weekly or bi-weekly progress meeting. Look Ahead Schedules shall be a detailed snapshot of the current Project Schedule covering the current 4-week Work Project period, including one past week, the current week, and the two weeks looking forward. The Look Ahead Schedules shall include efforts of all subcontractors and suppliers during this current period.

(b) Additionally, the Look Ahead Schedule shall include upcoming outages, closures, preparatory meetings, initial meetings, and critical path activities. The Look Ahead Schedule shall be a bar chart type schedule, maintained separately from the current Project Schedule in an electronic spreadsheet program and formatted to print legibly on 8.5" by 11" or 11" by 17" sheets. The preparatory and initial phases for each definable feature of Work shall be added to each 4-Week Look Ahead Schedule and will also be included in each monthly update. The Look Ahead Schedule shall be keyed to current Project Schedule activity numbers.

7.6.7 Data Date

(a) Contractor shall base all reports, pay requests, schedule updates on a specific date(s) in the life of the Contract upon which the defined system of reporting is to provide actual project status, and accomplishments to date.

(b) The Data Date (DD) for documents, including Contract status reports, progress measurements for payment, schedule updates, should be the last Friday of the month. The DD is also referred to as the "as-of-date" and the "time now date."

7.7 Photographic Documentation

7.7.1 Pre-Construction Photographic Survey of Existing Conditions

(a) The Contractor shall provide pre-construction photographs that record specific details of the construction site, including details of historic properties and any other properties specified by HART.

(b) Prior to construction, the Contractor shall perform a photographic survey of all existing conditions of buildings, structures, and pavements that are within one hundred (100) feet of the Contractor's Work areas. The Contractor shall document the survey, at a minimum, with photographs of all existing damage and cracks, along with width measurements of any cracks wider than 1/16 inch. The photographs shall be dated and referenced to locations marked on applicable plans or elevations of the area and accompanied by narrative descriptions of the damage. The photographic survey shall be transmitted to HART prior to the start of construction activities.

7.7.2 Milestones and Stages of Construction

(a) The Contractor shall take photographs of Work progression, including all construction milestones and, shall at a minimum, photograph the following stages of construction:

- (1) Date of initial access of all sites;
- (2) Before commencement of clearing and demolition;
- (3) Immediately upon completion of clearing and demolition;
- (4) Weekly during construction;
- (5) During and at the completion of construction milestones and major activities; and
- (6) Upon completion of the Work.

7.7.3 Quality, Quantity and Format of Photographs

(a) Digital Photographs

- (1) Photographs shall be taken using a GPS enabled device which will record Geotag, longitude, latitude, elevation orientation, date, and time automatically on each digital photograph.
- (2) Provide the resolution quality for an 8x10-inch print at 300 pixels per inch (ppi) or a minimum resolution of 2400 by 3000 pixels.

(b) Submit into CMS digital photographs on a weekly basis in the following format:

- (1) Original digital files from directly from the camera. Copies of the original digital files is not acceptable
- (2) Converted version of photographs into Adobe Acrobat PDF files.
- (3) Files uploaded shall have the filename "date.time. (Contractor's initials)." Additional pertinent information shall be included, such as the Contract number, location, date of activity, names of crew, on each photograph (pdf).

7.8 Submittal Procedures

7.8.1 General

Description: This Section includes the general requirements and procedures for preparing and submitting design and construction information and data for information and review. In general, submittals provided by the Contractor to HART are for informational purposes, with the responsibility for quality review and submittal approval remaining with the Contractor. If HART action is required on submittals of any type, it shall be clearly indicated as such on the submittal. Other requirements for submittals are specified in under applicable sections of the Contract.

7.8.2 Software Requirements; Contractor Responsibilities for HART-Hosted System

(a) **Software and Computer Requirements.** HART hosts a collaborative Contract and Project Management System which consist of two software tools: 1) Oracle Primavera *Contract Management System* (CMS). And 2) Oracle Primavera *P6 Project Management*. The Contractor is required to input daily, specified documents into HART CMS, accessible via the internet. Upon Contract execution, the Contractor shall acquire CMS and provide to HART the CMS licenses for all of Contractor's designated personnel. The Contractor is also responsible for the annual CMS license renewals. Once the licenses are received by HART and the Contractor has completed HART CMS training, the Contractor shall be given access to CMS.

- (1) A web browser is used to access CMS; the appropriate Java plug-in is automatically downloaded and installed, if it is not already on the computer. This process requires "Administrative" privileges to the computer, and the Contractor shall be responsible for this process. HART staff shall be available for technical advice but shall not operate, install, or troubleshoot any software or hardware of the Contractor's that does not function as intended, or adequately, for this application.
- (2) Detailed procedures, workflows and training lessons for using CMS are available in the CMSHELP software system. Except where noted, CMS should eliminate the need to manage multiple hard copies, CDs, etc. for required Contract documentation. Instead, most documents will be submitted and routed electronically with physical copies required only when copying is impractical or not possible, such as with samples, catalog cuts, or large drawings. Original documents may also be necessary when original signatures are required; otherwise, electronic transmittals and documentation shall be used.

(b) The Contractor shall use CMS in accordance with HART's protocols to manage all documents submitted to HART, including but not limited to submittals, correspondence, transmittals, meeting minutes, requests, baselines, deliverables, daily inspection logs, payment requests, and change management documents as follows:

- (1) Submittals – The Contractor is responsible for submitting, tracking and managing all contract submittals for its Contract using CMS. The responsibilities include creating and maintaining the submittal log and providing follow-up responses/actions to HART comments until satisfactorily resolved.
- (2) Correspondence Logs – CMS's Correspondence Received and Sent Logs shall serve as the repository for all correspondence generated during this project between the Contractor, HART, and other project participants. All attached files shall automatically be stored in the content repository software located on CMS, which is the designated file repository. Incoming correspondence with attached electronic files from the Contractor shall be emailed to designated HART representatives. All

correspondence from HART to the Contractor shall be logged into the Correspondence Sent Log.

- (3) Requests – The Contractor shall create and track all Requests for Information, Requests for Deviations or Requests for Changes in CMS.
- (4) Meeting Minutes – The Contractor shall prepare and input meeting minutes for designated meetings into the Meeting Minutes log of CMS.
- (5) Construction Field Reports -The Contractor is responsible for logging construction field reports in CMS on the next business day following the work performed. Project photographs shall be attached to the appropriate daily report as needed.
- (6) Punchlists – The Contractor shall use the Punchlist log from CMS during the Project closeout to list all deficient work. The Contractor shall coordinate with HART to identify and rectify each item listed in the Punchlist log.
- (7) Payment Request – The Contractor shall enter its monthly payment requests using CMS.

7.8.3 Submittal Requirements

- (a) Unless the submittal cannot be converted to an electronic format, all submittals shall be entered into CMS. Submittal data shall be entered into the CMS submittal log using a sequential numbering system.
- (b) The Contractor shall submit a spreadsheet schedule of submittals within thirty (30) days after the issuance of the NTP listing all anticipated submittals throughout the duration of the Contract. Submittals include, but are not limited to drawings, specifications, engineering reports, permits, product data, samples, warranties, and other pertinent data required in the Contract.
 - (1) The schedule of submittals shall include the following, where applicable:
 - (A) The description of the submittal;
 - (B) References to relevant Contract Documents and sections; and
 - (C) Intended submission and resubmission dates;
- (c) Design Documents and Construction Documents shall be prepared by the Engineer of Record and shall be submitted to HART for review and comment as described in the Contract Documents.
- (d) HART intends to perform cursory and/or audit level reviews of the Contractor's submittals to observe that design and construction activities are progressing in general compliance with the Contract. HART's review efforts do not relieve the Contractor of its responsibility for compliance with the Contract.
- (e) The Contractor shall address HART's review comments to HART's satisfaction prior to beginning construction on any related portion of the Work.
- (f) Hard Copy Delivery. For any supporting documentation not readily convertible to electronic format, the Contractor shall provide hard copies on the same day as the electronic portion of submittal was due.
- (g) Submittal Preparation and Requirements. Each submittal shall include a label or title block which contains the following minimum information:

- (1) Contract name and number (and Project location, as applicable);
 - (2) Description of submittal and date submitted;
 - (3) Sheet number and number of sheets included (as applicable), with consecutively numbered drawings;
 - (4) Name of the Contractor, subcontractor, fabricator, supplier, and manufacturer (as applicable);
 - (5) Name of drawing and scale (as applicable);
 - (6) Name and date of each revision;
 - (7) References to relevant Contract Documents and sections;
 - (8) References to the relevant Contract Documents, Construction Drawings and/or Construction Specification section(s); and
 - (9) On each sheet, the name of each item submitted and its location in the Work.
- (h) Professional Seal Requirements
- (1) Submittals of Design Documents and/or Construction Documents, when specified or required by governing codes and regulations, shall be sealed and signed by a professional engineer or architect currently licensed in the State of Hawai'i as appropriate for the specific discipline involved. The design documents that shall be signed and sealed include, but are not limited to, Construction Drawings, Construction Specifications, engineering reports, engineering calculations, and other documents as required by regulatory agencies and the Contract.
- (i) Review Period
- (1) The duration for HART review shall be thirty (30) days unless specified otherwise for specific types of submittals in other Contract Documents.
 - (2) The Contractor shall proactively coordinate and determine if other governmental entities, utility owners, or other relevant agencies require longer review periods. When longer review periods are required, the Contractor shall schedule submittals accordingly, so that Work and schedules are not delayed.
- (j) Include only one item or a group of related items in one submittal. Do not group multiple submittal items under one transmittal form.
- (k) Changes in Accepted Submittals. Changes to accepted submittals will not be allowed unless changes have been resubmitted for review and comment. The re-submittal process is the same as for the original submittal.
- (l) Supplemental Submittals. Supplemental submittals for corrective procedures shall contain sufficient data. Supplemental submittals shall be submitted in the same manner as initial submittals.
- (m) Incomplete submittal packages will not be reviewed.

7.8.4 Contractor's Responsibilities

(a) The Contractor shall submit proof of acceptability prior to material leaving its source such that when it is tested and inspected as placed, it will meet Contract requirements.

(b) Approvals or acceptance of a submittal by another governmental agency or utility agency shall be obtained before a submittal is sent to HART. The Contractor shall obtain non-HART approvals or acceptances in the clearest and most straightforward manner possible.

(c) **Contractor's Review of Submittals**

- (1) The Contractor shall review, stamp, and sign as reviewed and in compliance with Contract Documents before submission to HART.
- (2) The Contractor's review and acknowledgement shall:
 - (A) Ensure submittal is complete and all relevant data required is provided;
 - (B) Check and coordinate information in each submittal for accuracy, completeness, and compliance with Work and Contract Document requirements;
 - (C) Verify materials, field measurements, field construction criteria, catalog numbers, and similar data;
 - (D) Coordinate Work requirements to ensure submittal of one trade is compatible with other related Work submittals;
 - (E) Ensure products are available in quantities required for the Work; and
 - (F) The Contractor shall indicate any variances from Contract Documents within the submittal, requiring approval by HART as a Contract Change.

(d) In addition to the submission into the CMS, the Contractor shall distribute accepted submittals to:

- (1) Contractor/HART field office;
- (2) Affected and concerned subcontractors, suppliers, and fabricators; and
- (3) Affected and concerned members of the Contractor's workforce.

(e) **Work Site Records.** The Contractor shall maintain at Work site a complete up-to-date, organized file of all past and current submittals, including a document control system that identifies the status of each submittal.

7.8.5 Review Protocol

(a) HART review and acceptance of any of the Contractor's submittals, including requests for Contract Change, does not relieve the Contractor from responsibility for:

- (1) Errors and omissions in submittals, such as samples, mock-ups, sample panels, product data, shop drawings, calculations;
- (2) Conformance with Contract requirements;
- (3) Compatibility of described product with contiguous products and the rest of the system and furnishing materials of proper dimensions, quantity, and quality; and
- (4) Prosecution and completion of Work in accordance with Contract Documents.

(b) HART's review of a separate item will not constitute review of an assembly in which the item functions.

(c) HART's review comments may indicate preferences not specifically indicated in the Contract Documents. If the Contractor perceives any such comment that, in the opinion of the

Contractor, causes any change, the Contractor shall notify HART in accordance with GCDB Section 3.1(b) prior to proceeding with the associated revisions.

(d) When responding to a submittal, HART chooses from a standard menu of submittal responses used for all project delivery methods. The responses indicated may not align with the specific responsibilities assigned to the Contractor and/or HART in all cases. The following are responses that the Contractor may receive from HART regarding its submittals:

- (1) ACCEPTED, which indicates that:
 - (A) HART has either elected not to review the subject submittal, or the HART has performed a cursory and/or audit level review of the subject submittal and has no comments.
- (2) ACCEPTED AS NOTED, which indicates that:
 - (A) HART has performed a cursory and/or audit level review and comments are noted but may be addressed without a resubmittal;
 - (B) Contractor need not resubmit unless Contractor challenges the comments provided.
- (3) REVISE AND RESUBMIT, indicates that:
 - (A) HART has performed a cursory and/or audit level review and noted comments; and
 - (B) Resubmittal is required;
- (4) INCOMPLETE, indicates:
 - (A) HART has performed a cursory and/or audit level review and determined the submittal to be deficient; and
 - (B) Contractor shall complete the submittal and resubmit.

7.8.6 Requests for Information (RFIs) submittal process

(a) General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit to HART an RFI in the form specified, using the CMS functionality designated for RFIs.

(b) All RFIs shall be submitted by the General Contractor. Any RFI submitted by any other entity, including entities controlled by the Contractor, will be returned with no response.

(c) Coordinate and submit RFIs in a prompt manner so as to avoid delays in the Work.

(d) Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:

- (1) Date;
- (2) RFI number, numbered sequentially;
- (3) RFI subject;
- (4) Contract Documents title, section, and related paragraphs, as appropriate;
- (5) Drawing number and detail references, as appropriate;
- (6) Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI; and

- (7) Attachments, as appropriate;
- (e) **RFI Forms:** Software-generated form with substantially the same content as indicated above, acceptable to HART.
- (f) Attachments shall be electronic files in Adobe Acrobat PDF format.
- (g) **HART Action:** HART or a HART representative will review each RFI and respond. Allow approximately 10 working days for a HART response for each RFI. RFIs submitted in CMS after 1:00 p.m. will be considered as received the following working day.
- (h) Incomplete RFIs or inaccurately prepared RFIs will be returned without action.
- (i) HART action may include a request for additional information, in which case the HART time for response will date from time of receipt of additional information.
- (j) If the Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, the Contractor shall follow the notice requirements set forth in Chapter 3 of the General Conditions.

7.9 Shop Drawings, Product Data, and Samples

7.9.1 General

This Section provides the general requirements and procedures for preparing and submitting shop drawings, product data and samples required under the Contract.

7.9.2 Submittals

- (a) Submit shop drawings, product data, samples and other submittals to HART.
- (b) Submittals shall comply with GCDB Section 7.8.3.
 - (1) Shop drawings;
 - (2) Product data: including calculations;
 - (3) Other submittals: inspection reports, test reports, and certificates of compliance; and
 - (4) Submit permits and licenses and other documents obtained in HART's name.
- (c) Final shop drawings and catalog cuts become HART's property. All pages of catalog cuts shall be clear, legible, and permanent.
- (d) Indicate "As Built" on final shop drawings and catalog cuts.
- (e) Submittals are not a mechanism for changing the technical terms or conditions of the Contract. The Contractor shall flag any items not in strict compliance with Contract requirements. The Contractor shall be liable for all costs and damages associated or arising out of the Contractor's changes in terms and conditions in the submittals. .

7.9.3 Shop Drawings

- (a) **Definition.** Shop drawings are detailed construction and fabrication drawings that show proposed material, shape, size, and assembly data. Drawings, diagrams, illustrations, schedules, performance charts, brochures, and other data are prepared by the Contractor, subcontractor, manufacturer, supplier, or distributor, to illustrate how specific portions of the Work are to be fabricated, installed, or both.
- (b) The Contractor's shop drawing submittals include fabrication, erection and installation, application, layout, and setting drawings, lists or schedules of materials and equipment, manufacturer's standard drawings, wiring and control diagrams, all other drawings as may be required to show that materials, equipment, and systems, and the positions thereof, comply with Contract requirements.
- (c) Shop drawings shall be completed and submitted for HART's records not less than sixty (60) days before Work involved in such drawings commences and indicate such date on the Contractor's Baseline Project Schedule (BPS).
- (d) Shop drawings shall include details for necessary procurement, installation, maintenance and repair of Contract components or facilities equipment provided.
- (e) **Drawing Format.** Typically, draw plan and section details at a scale of 1/4"=1'-0", details at a scale of 1"=1'-0" or larger. Drawings shall contain cross reference to Contract sections, as appropriate.
- (f) **Drawing Contents.** Drawing contents shall include any pertinent data as necessary in the shop drawing, including but not limited to the following:

- (1) Size and thickness of members;
- (2) Method of anchoring and securing parts;

- (3) Quantity and location of each item;
- (4) Materials and finishes;
- (5) How an item fits to abutting work and requirements for related construction;
- (6) Required connections;
- (7) Overall size and weight;
- (8) Clearances and tolerances;
- (9) Verification of field conditions prior to fabrication;
- (10) Other pertinent data necessary to show where and how Work is to be done; and
- (11) Coordination of shop drawings and data with requirements for related construction.

(g) Use drawing symbols from one standard reference source and provide a complete symbol list that includes non-standard symbols used on the drawing.

(h) Shop drawings shall include illustrations and drawings.

7.9.4 Product Data

(a) **Definition.** Product data is standard printed information describing materials, products, equipment and systems required for some portion of the Work.

(b) The Contractor's product data may include manufacturer-prepared descriptive literature, catalog sheets, brochures, performance data, test data, diagrams, schedules, illustrations, and other information furnished by the Contractor. Project data also includes various product and materials information from suppliers to illustrate and describe a product, material, system, or assembly.

(c) The Contractor shall modify manufacturers' product data standard diagrams, charts, illustrations, brochures, calculations, schematics, catalog cuts, and other descriptive data to delete information not applicable to the Contract. The Contractor shall supplement standard product data, as necessary, to show conformance with Contract requirements.

(d) If the Contractor uses drawings prepared by others, such drawings may include standards and symbols that others use. However, to the greatest extent possible, the Contractor should conform to the Project submittal standards.

7.9.5 Samples

(a) **Definition.** Samples include physical examples of equipment, colors, textures, finishes, functions, configuration, and Work quality, and establish standards of quality and utility, such as:

- (1) Partial sections of manufactured or fabricated work;
- (2) Small cuts or containers of materials;
- (3) Complete units of repetitively-used materials;
- (4) Swatches showing full range of color, texture, and pattern;
- (5) Color range sets;
- (6) Units of Work to be used for independent inspection and testing; and
- (7) Units of Work to be used as a standard to judge materials and workmanship.

(b) The Contractor shall provide samples for items where specified and for items requiring a choice of color, texture, or finish. Samples provided shall represent the materials and workmanship standards by which to judge the completed Work for acceptance.

(c) Samples shall be sent shipping charges pre-paid.

(d) Do not use materials for which samples are required until HART has made its selection in writing.

(e) Label. Each sample should be labeled and include the following data:

- (1) Contract name, number, and location on Project;
- (2) Name of the Contractor;
- (3) Material or equipment represented, and location in the Project;
- (4) Name of producer, brand, trade name, if applicable, and place of origin;
- (5) Construction Specification number and title and related paragraphs, as appropriate;
- (6) Construction Drawing number and detail references, as appropriate; and
- (7) Date of submittal.

(f) Selection or acceptance of a sample is only for the characteristics and use named in the submittal. Selection or acceptance of a sample does not change or modify Contract requirements. Before submitting samples, the Contractor shall ensure that materials or equipment will be available in quantities required. No change or substitution is permitted after a sample has been accepted, unless such change or substitution is accepted by HART in writing.

(g) Submit to HART a list of the Contractor's material sources in sufficient time to permit HART's inspection and testing of materials in advance of their use, if HART so chooses.

(h) While HART has no obligation to do so, HART may take samples of materials delivered to the Project or installed in place for inspection and testing. The following standards shall apply for such sample testing:

- (1) Contractor shall submit three (3) of each sample item.
- (2) Samples taken without HART's presence will not be used for testing.
- (3) Failure of samples to meet Contract requirements will annul previous acceptances of the item tested.
- (4) Failure of any materials to pass the specified tests will be cause for refusal to consider any further samples of the same brand, make, or source of that material.
- (5) HART reserves the right not to accept material which has previously proven unsatisfactory in service.
- (6) Inspections and tests is not a guarantee of acceptance of material which may be delivered later for incorporation into the Work.
- (7) Accepted samples not damaged in testing may be incorporated into the finished Work if marked for identification. Materials incorporated into the Work shall match accepted samples.

7.9.6 Other Submittals

(a) Provide other submittals as specified in the Contract to demonstrate compliance of equipment and materials with the Contract requirements.

(b) Certificate of Compliance

- (1) HART may permit use of certain materials prior to sampling and testing if accompanied by a certificate of compliance stating that materials involved comply in all respects with Contract requirements. The certificate shall be signed by the manufacturer of the material. In such events, a certificate of compliance shall be furnished for each lot of material delivered to the Work. The lot so certified shall be clearly identified in the certificate.
- (2) All materials used on the basis of a certificate of compliance may be sampled and tested by HART at any time. Acceptance of material based on certificate of compliance does not relieve the Contractor of responsibility for incorporating material into the Work that conforms to Contract requirements. Any material not conforming to Contract requirements will be subject to rejection whether in place or not.
- (3) HART reserves the right to refuse any use of material submitted for acceptance solely on the basis of a certificate of compliance.

7.9.7 Changes and Substitutions

(a) Changes in products for which shop drawings, product data, or samples have been submitted will not be permitted, unless those changes have been accepted in writing by HART.

(b) Any substitution request shall be in writing and include justification, quantities, and prices involved, quotations and other documents deemed necessary to support the request. Any savings in cost will accrue to HART. The burden of proof as to the comparative quality and suitability of substitution shall be upon the Contractor.

(c) Substitution requests will be made in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

(d) HART may allow the substitution under the following circumstances:

- (1) A specified item or pre-qualified item is delayed by an unforeseeable event beyond the control of the Contractor, which would impact the timely completion of the Project.
- (2) A specified or pre-qualified item is no longer being manufactured or is no longer reasonably commercially available, and the Contractor was in no way responsible for any delay in procuring the item.
- (3) A specified or pre-qualified item is found to be unsuitable for reasons beyond the Contractor's control.
- (4) When a manufacturer or supplier of a pre-qualified or specified item makes available at no increase in Contract price or Contract time a suitable item that is equal or better than the pre-qualified item or specified. The burden of proof as to the "equal or better" quality shall be the Contractor's.

7.10 Safety And Security Compliance

7.10.1 General

(a) The Contractor assumes full responsibility for and shall give notices and comply with applicable laws, ordinances, rules, regulations and lawful orders of public authorities bearing on safety of persons or property or protection from damage, injury or loss. The Contractor shall comply with all applicable Federal, State and City laws on safety and security, including Hawaii Revised Statutes (HRS) Chapter 396, relating to standards of occupational safety and health, and HRS Section 396-18, relating to safety and health programs for contractors for construction projects where the proposal is in excess of \$100,000, and HART Safety and Security Management Plan, HART Safety and Security Certification Plan, and HART Construction Safety and Security Plan. The Contractor shall complete and submit Exhibit L, Certificate of Compliance with HRS Section 396-10, Safety and Health Program, at the time set under the solicitation documents, but prior to execution of contract.

(b) The Contractor shall be responsible for employing safety and security measures and taking all other actions reasonably necessary to protect the life, health, safety, and security of the public and to protect adjacent and HART-owned property in connection with the performance of the Work.

(c) The Contractor shall have the sole responsibility for the safety, efficiency, and adequacy of the Contractor's plant, appliances, and methods, and for any damage or injury resulting from their failure, or improper maintenance, use, or operation. The Contractor shall be solely and completely responsible for the conditions of the Project site, including safety of all persons and property in performance of the Work. This requirement shall apply continuously, and not to be limited to normal working hours. The required or implied duty of HART to conduct construction review of the Contractor's performance does not, and shall not be intended to, include review and adequacy of the Contractor's safety and security measures in, on or near the Project site.

(d) The Contractor shall establish and supervise:

- (1) A safe, secure, and healthy working environment;
- (2) An accident prevention program; and
- (3) Training programs to improve the skill and competency of all employees in the field of occupational safety and health.

(e) The Contractor shall maintain at its Project site office or other well-known place at the Project site, all articles necessary for providing first aid to the injured. The Contractor shall establish, publish, and make known to all employees, procedures for ensuring immediate removal to a hospital, or doctor's care, persons, including employees, who may have been injured on the Project site. Employees should not be permitted to work on the Project site before the Contractor has established and made known procedures for removal of injured persons to a hospital or a doctor's care.

7.10.2 Construction Safety and Security Plan (CSSP)

(a) HART has prepared a Construction Safety and Security Plan (CSSP) to provide risk management criteria to reduce the risk of occupational injuries, illnesses, property damage and fatalities during the construction operations. The CSSP, as amended, is incorporated by reference as a part of the Contract Documents.

(b) The CSSP establishes the minimum acceptable requirements and procedures for the Contractor and its subcontractors at all tiers. Under the CSSP, the Contractor is required to develop a Contractor Health and Safety Plan (CHASP), which describes the Contractor's program and policies' compliance with Hawaii Administrative Rules §12-110 or § 12-60 written safety and health program criteria. The CHASP shall be submitted to HART for informational purposes only.

(c) The Contractor shall provide a Contractor Site Safety and Security Plan (SSSP) in accordance with the CSSP. HART's acceptance of the Contractor's SSSP shall not relieve the Contractor of its duties and responsibility to comply with the local, state and federal laws and standards.

7.10.3 Safety and Security Certification Plan (SSCP) and Process

(a) HART has prepared a Safety and Security Certification Plan (SSCP) based on the guidelines established by the Federal Transit Administration (FTA) - (FTA Handbook for Transit Safety and Security Certification, Final Report, November 2002, DOT-VNTSC-FTA-02-01) (FTAH). The HART SSCP defines how safety and security certification will be managed for the Project. The HART SSCP is incorporated by reference as part of the Contract Documents.

(b) The Contractor shall implement and successfully complete safety and security certification in compliance with FTA's latest handbook FTAH and further defined in the most current HART SSCP. The preliminary Certifiable Elements List (CEL) and Certifiable Items List (CIL) will be provided to the Contractor upon request. As a part of the certification process, the Contractor's duties include, but are not limited to the following:

- (1) Facilitate, as needed, safety and security certification progress and review meetings, including scheduling and providing meeting minutes;
- (2) Develop safety and security analyses for safety and security certifiable elements and items;
- (3) Resolve any identified safety hazards and security vulnerabilities; and
- (4) Provide Field Verification of the CEL/CIL showing that the Contractor has met the requirements of the base conformance CIL line item checklist, Contract Specification Conformance, and Testing Verification Conformance of the CIL which shall be completed and signed at each phase showing that each certifiable item meets conformance at all phases for HART Safety and Security Certification Program.

(c) The safety and security certification process for each certifiable element is not complete until conformance checklists are completed, signed, and submitted by the Contractor and approved by HART's Safety and Security Review Committee. Additional requirements for the safety and security certification are detailed in the HART SSCP

7.10.4 Sensitive Information Procedure

(a) The Department of Transportation (DOT) regulation "Protection of Sensitive Security Information," 49 CFR part 15, specifies that each recipient must control the release of "sensitive security information" (SSI). DOT published "Interim Policies and Procedures for 49 CFR part 15, Protection of Sensitive Security Information" on June 7, 2005. These DOT policies and procedures apply to all DOT employees and to all DOT contractors, recipients, consultants, licensees, and regulated entities that have access to or receive SSI. Following this DOT guidance, FTA requires recipients with major capital projects covered by 49 CFR part 633 to document or reference their procedures for managing SSI materials in the SSMP. These procedures extend to any contractors involved on the project, to ensure that all project documents are maintained in a secure manner while in the possession or control of contractors.

(b) Contractors are required to adopt and implement the most current HART SSI Plan.

7.11 Quality Assurance

7.11.1 General

(a) The Contractor is responsible for complying with the Quality Assurance (QA) requirements as set forth herein, its Quality Assurance Plan (QAP), and the Contract Documents. Requirements include implementing and maintaining a quality program that will define how Work is to be performed and controlled, and who is responsible to ensure that the Contractor's Work meets Quality Assurance requirements.

(b) HART's Quality Management Plan:

- (1) HART has in place its own Quality Management Plan (QMP) for the Honolulu Rail Transit Project. The QMP is founded on accepted concepts and processes recognized by the American Public Transportation Association (APTA) and Federal Transit Administration Quality Assurance/Quality Control Guidelines (FTA-IT-90-5001-02.1 February 2002 Issue) (hereafter, "FTA QA/QC Guidelines"), which have been successfully utilized in other public transit projects.
- (2) The QMP objective is to ensure that the Project is procured, designed and constructed according to established design, engineering, safety, security, and quality requirements. These requirements provide controls for procurement, design, construction, testing, and inspection that result in quality products necessary for a safe, secure, and reliable transit system operation.

7.11.2 Contractor's Quality Assurance Plan (QAP) Requirements

(a) The Contractor shall complete its Quality Assurance Plan (QAP) within thirty (30) days from the NTP and provide the same to HART for HART's files and records. Work shall not commence without a completed QAP, except where specific prior activities are required and the Contractor has provided a specific quality plan for such specific prior activity.

(b) The Contractor shall be responsible for its own analysis of its quality program and that it meets the requirements of the FTA QA/QC Guidelines and HART's QMP.

(c) The QAP shall include a quality policy, a statement by the Corporate Project Principal duly authorized to commit the Contractor's support and responsibility for quality, and other commitments including, but is not limited to the following:

- (1) The Contractor's management commitment to quality and assignment of resources necessary to complete the Project's Scope of Work to satisfy the Contract Specification requirements;
- (2) The Contractor naming the personnel who will specifically undertake QA and QC activities; and
- (3) Implementation of Quality procedures.

(d) The Contractor's personnel directory and organizational chart showing all key personnel shall be included in the QAP. See GCDB Section 7.5, Character of Workers and Key Personnel.

(e) Quality elements that shall be included as a part of the Contractor's QAP are:

- (1) Management responsibility and support of the quality program:
 - (A) Establish an organization chart showing the interrelationships between the Contractor and its subcontractors, other supporting organizations, and permitting review agencies. Clearly establish and delineate organization

structure, levels of authority, and lines of communication for activities affecting quality.

- (B) Identify Quality personnel with the authority, independence, and responsibility to evaluate and ensure that the QAP is correctly and effectively executed. Where problems are identified, Quality personnel shall have authority and organizational freedom to initiate, recommend, and provide solutions. The Quality Manager shall report only to the Corporate Project Principal.
 - (C) Establish an organizational “checks and balances,” with production and operation components separate and independent from quality for both the design and construction phases. The procedures should include requirement of close coordination and communication between the two sides for effective on-site operation.
- (2) Documented Quality Management System:
- (A) Establish and maintain a documented quality management system to ensure that the Project quality objectives are satisfied.
 - (B) Establish requirements, including procedures and work instructions for activities and work being performed that affect quality in design, construction, installation, and control of processes, including inspection, testing, disposition of nonconformance’s, corrective action, maintenance of quality records, quality audits, and training.
 - (C) Have in place regular management assessment on the adequacy of the QAP to ensure effective implementation and continuous improvement.
- (3) Document Control:
- (A) Establish procedures utilizing HART’s CMS for control of Project documents and data to ensure that all relevant documents are current and available to HART.
 - (B) Include the procedures for issuance, approval, distribution, retention, and maintenance of drawings, specifications, reports, procedures, and other Project documents applicable to construction in accordance with submittal requirements under this Contract. The Contractor’s procedures shall not conflict with the procedures required by HART.
 - (C) Include and identify control documents that specify quality requirements or prescribed activities affecting quality to ensure that correct documents are being employed.
 - (D) Include procedures to identify, label, and store obsolete documents in such a manner that there is no confusion as to their use for the Project.
- (4) Purchasing:
- (A) Ensure that subcontractors and suppliers are competent, reliable, and qualified.
 - (B) Clearly specify the purchasing requirements, including relevant standards, drawings, specifications, process requirements, inspection instructions, approval criteria for materials, processes, and products, and Buy America requirements.

- (C) Ensure that the review and approval of purchasing documents are by authorized personnel for adequacy of specified requirements prior to release.
 - (D) Include a procurement control process, procedure, or both to ensure that purchased materials, machinery, equipment, and services are handled, shipped, delivered, stored, cleaned, and preserved to prevent damage, deterioration, or loss.
 - (E) Include a procurement control process to ensure construction, materials, machinery, and equipment are procured according to the Contract and quality requirements.
 - (F) Define a process for Contract review, to ensure that Contract requirements are understood and disseminated to the appropriate Contractor's project management staff responsible for the Work.
 - (G) Prepare and review procurement documents to include technical, quality, and commercial requirements.
 - (H) Monitor and evaluate performance of subcontractors and suppliers performance to ensure compliance with Contract Documents. Maintain procurement records of the Contractor, subcontractors, and suppliers.
- (5) Product Identification and Traceability:
- (A) Establish procedures that ensure that materials, parts, and components are properly identified, traceable, and controlled.
 - (B) The procedures must, at minimum, comport to the Contract requirements regarding product identification and traceability, including maintaining identification by part number, serial number, bar code, or other appropriate means either on the item or on records traceable to the item as required throughout fabrication or construction of the item.
 - (C) The established procedures in place shall be utilized to prevent nonconforming work, materials, parts, or components from being incorporated into final products.
- (6) Processes Control:
- (A) The Contractor shall identify and plan the production and installation processes that directly affect quality, including but not limited to construction, manufacturing, installation, and testing, to ensure these processes are performed under controlled conditions.
 - (B) To achieve accuracy and consistency in production and installation processes, the quality control shall provide for:
 - (i) Documented procedures and work instructions, where needed;
 - (ii) A suitable work environment by qualified or authorized individuals; and
 - (iii) The Contractor's procedures shall include continuous monitoring during production and installation to ensure conformity with documented procedures and Contract requirements, in particular, during special processes, such as welding, heating treating, non-destructive testing,

where the results will impact quality of the final product, but where inspection after the fact may not reveal the deficiencies.

- (C) Ensure that work is performed in proper sequence.
- (7) Inspection and Testing:
- (A) The Contractor shall have in place inspection and testing procedures to verify quality with emphasis in the following areas: Items or work affecting safety; items that affect systems reliability; items that affect service life; long lead time items or custom manufactured items, high visibility areas; Buy America requirements, and ADA compliance items. Such procedures shall be implemented and executed.
 - (B) Inspections and testing shall be performed for the entire duration of the Contract in accordance with the documented procedures to ensure compliance with Contract requirements and product specifications. The Contractor's inspection and testing procedures shall not conflict with inspection and testing requirements set forth in the Contract.
 - (C) Records shall be maintained of the inspections and tests to provide evidence that the product has passed inspection and test and conform to the acceptance criteria.
- (8) Inspection, Measuring, and Test Equipment:
- (A) Inspection, measuring, and test equipment, such as tools, gauges, instruments, and software, shall be identified, controlled, timely calibrated, properly maintained, and updated, in accordance with national, manufacturer, or certifying agency standards.
 - (B) All testing equipment must be calibrated prior to its use on the Project.
 - (C) Document records of calibration status. Identify and mark equipment to indicate calibration status.
- (9) Inspection and Test Status:
- (A) The Contractor shall establish a process to monitor the inspection and test status of work being conducted so as to ensure that only work that has passed the required inspections and tests is accepted. Examples of ways to monitor test and inspection status may be by markings, stamps, tags, labels, routing cards, inspection records, test software, physical location, or other suitable means. The status identification shall indicate the conformance or nonconformance with regard to inspections and tests performed.
 - (B) At a minimum, the status of completed, tested and inspected construction should be kept as an ongoing record in the daily inspection reports. Nonconforming materials or construction should be recorded with location noted on inspection reports or nonconformance reports as applicable.
- (10) Nonconformance:
- (A) The Contractor shall establish procedures to maintain control of nonconforming work to ensure that nonconforming conditions, processes, parts, materials, and components are not incorporated into the final product.

- (B) Identify, document, and evaluate nonconforming work or processes to determine appropriate disposition for the nonconforming items.
 - (C) Procedures shall include properly identifying and segregating nonconforming items from conforming items while awaiting disposition.
 - (D) All nonconforming items shall be reported for immediate disposition and corrective action.
 - (E) Disposition of nonconforming work shall be documented. Reworked or repaired work shall be re-inspected in accordance with documented procedures.
- (11) Corrective Action:
- The Contractor shall establish corrective action procedures that include procedures for investigating the cause of nonconforming items; the corrective action needed to prevent recurrence; ensuring that conditions adverse to quality are promptly identified and corrected; initiating preventative actions to deal with problems on a level corresponding to the level of risk; ensuring that the corrective actions are taken and that they are effective; and implementing and recording changes in the procedures resulting from corrective action.
- (12) Quality Records:
- (A) The Contractor shall establish and use procedures to ensure that all quality-related documents and evidence are properly accumulated, maintained, organized, and protected.
 - (B) Properly identify, control, and store all documents in a well-defined location.
 - (C) Include supplier, and subcontractor quality records when pertinent.
- (13) Quality Audits:
- (A) The Contractor shall establish an internal audit to ensure that its quality program is being implemented as intended and in compliance with the QAP.
 - (B) The procedures shall include a plan and schedule of audits, with frequency of the audits based on the status and importance of the activity being audited.
 - (C) The Contractor shall ensure that audits are performed by qualified personnel in accordance with a prepared checklist.
 - (D) The Contractor shall ensure all audit results are documented and reviewed by management responsible for the area being audited.
 - (E) The Contractor shall ensure that follow-up actions and verification, including re-audit of deficient areas, are performed.
- (14) Training:
- (A) The Contractor shall establish and maintain procedures for identifying the training needs and providing training for all personnel performing activities affecting quality to ensure that only qualified personnel perform activities affecting quality and their qualifications are maintained. The bases for qualifications are appropriate education, training, and/or experience.
 - (B) The Contractor shall maintain records showing appropriate training and qualifications.

7.11.3 Design Quality Management

- (a) Project Design Quality Management is the responsibility of the Contractor.
- (b) The Contractor shall include procedures regarding design and permitting activities in the Contractor's QAP to ensure that:
 - (1) Adequate resources are available to perform the design and permitting Work;
 - (2) Project organizational aspects are appropriate, and that the workers are proficient, trained, and qualified;
 - (3) Contract Specifications including all relevant statutory requirements and permits are fully understood;
 - (4) Latest approved revision of the Contract Documents, procedures, and instructions are kept in areas where Work is being performed; and
 - (5) Appropriate process and control procedures are established, implemented and documented to ensure quality of the design, including QC requirements for each design and permitting activity.
- (c) Establish design control procedures to ensure Contract Specifications, regulatory and code requirements, and engineering standards are correctly translated into Construction Drawings, Construction Specifications, procedures, and instructions. These may include (but are not limited to) the following:
 - (1) Coordinate with and obtain necessary approvals from authorities regarding temporary road diversions and detours, shutdowns, temporary traffic diversions, utility relocations, and all other matters for which authorization may be required.
 - (2) Document how permit requirements are met in accordance with the Environmental Compliance Plan and that appropriate permits are obtained.
 - (3) Ensure that the responsible Designer(s) completes the necessary reviews, evaluations and quality checks in accordance with the procedures documented in the QAP and file appropriate documentation and certifications.
- (d) Describe procedures for independent design checks, design assessment, and analytical checks. The Contractor shall provide to HART a clear and detailed plan that defines and written procedures for this independent design check.

7.11.4 Construction Quality Management

- (a) Project Construction Quality Management is the responsibility of the Contractor.
- (b) The Contractor shall include procedures regarding construction activities in the Contractor's QAP to ensure that:
 - (1) Adequate resources are available (e.g., construction, manufacturing plants, equipment, fabricators, erectors, machinery, storage facilities, and approved materials) to perform the Work;
 - (2) Project organizational aspects are appropriate, including the independence and authority of the quality personnel in accordance with GCDB Section 7.11.2(e)(1)(B); and that the workers are proficient, trained, and qualified, especially where different organizations are involved (e.g., project management, subcontractors, vendors, and quality assurance, including inspection, testing, and quality control);

- (3) Contract Specifications, all relevant statutory requirements, permits, and Work Plans are fully understood;
- (4) Latest approved revision of the Contract Documents, procedures, and instructions are kept in areas where Work is being performed;
- (5) Environmental conditions for accomplishing the Work are suitable and prerequisites for any given Work have been satisfied;
- (6) Appropriate implementing process and control procedures and Work Plans are established to ensure quality of construction, including QC requirements for each construction activity;
- (7) Training;
- (8) Describe procedures for communication between the Contractor and HART's CE&I consultant for input on the field design, including requests for information and field design changes;
- (9) Describe procedures for communication with the Engineer of Record for input on the field design;
- (10) Describe procedures for submittal of shop drawings; and
- (11) The Contractor's QAP shall include procedures for production, maintenance and control of As-Built Drawings and As-Built Specifications.

(c) **Quality Plan Revisions and Updates:** The Contractor shall revise and update the QAP as the Work progresses. For purposes of HART maintaining complete documentation, the Contractor shall provide to HART, the revised QAP, no later than thirty (30) days prior to the commencement of the Work to which the revision applies.

(d) **Quality Team Organization (Key Personnel):**

- (1) The Contractor shall, at a minimum, identify its Project Principal, Project Manager, Design Manager, Construction Manager, Quality Manager, Safety and Security Specialist, and Public Involvement Manager. See GCDB Section 7.5, Character of Workers and Key Personnel.
- (2) The Contractor's Executive Management shall review the QAP at defined intervals to ensure continuing suitability and effectiveness in satisfying requirements of the Contractor's QAP and the FTA QA/QC Guidelines and its stated quality policy and objectives. Records of the review meetings shall be maintained as Quality records.
- (3) The Contractor's Quality Manager is responsible for managing and administering the accepted QAP, including the Inspection and Testing Plan (ITP) (see below).
- (4) The Contractor's Quality Manager is responsible for the performance of QC activities (see GCDB Section 7.13, Quality Control) during construction in accordance with the established QA requirements and procedures.

(e) **Inspection and Testing Plan (ITP):** The Contractor shall prepare an ITP to be submitted to HART for its files and records, that shall, at a minimum, include the following:

- (1) List inspections, special instructions and tests to be performed;
- (2) Identify the document, section and paragraph containing the inspection or test requirements;

- (3) Identify who is responsible for each test: Contractor, subcontractor, supplier, or manufacturer;
- (4) Identify schedule of inspections and tests;
- (5) Identify independent test laboratories;
- (6) Identify the characteristics to be inspected, examined, and tested at each activity point;
- (7) Specify inspection and test procedures and acceptance criteria to be used;
- (8) Identify inspection checklists and test reports; and
- (9) Identify the Contractor's and HART's witness and hold points.

7.12 Field Samples and Mock-Ups

7.12.1 Field Samples and Mock-Ups

(a) The Contractor shall prepare field samples and mock-ups at the Project site as specified in the Contract Documents. The Contractor shall:

- (1) Construct and provide field samples and Project site mock-ups at designated Project site locations or on the structure as ordered by HART.
- (2) Have product manufacturers inspect and approve field samples and mock-ups that involve their materials. Proper application or installation of the materials shall be according to their respective instructions and recommendations for the conditions or circumstances involved in the application or installation.
- (3) Make arrangements with the respective product manufacturers to provide job or field services when providing field samples or providing mock-ups.

(b) Contractors shall provide as many additional samples and mock-ups as may be required, until desired features, textures, finishes, and colors are obtained. Accepted samples and mock-ups shall serve as the standards of quality for the various affected units of Work.

(c) Preserve accepted field samples and mock-ups for comparison purposes until the affected Work is completed and accepted by HART. Finished Work shall match the accepted field samples and mock-ups.

7.12.2 Nonconformance

(a) Contract shall adhere to and follow the nonconformance requirements and procedures specified in the QAP.

(b) Completed Work that does not adequately match accepted field samples and mock-ups will be rejected. HART will not pay for replacement of such Work that does not exactly match the accepted field samples and mock-ups.

(c) Work started before HART has accepted the field samples or mock-ups shall be at the Contractor's risk of having the Work rejected by HART without compensation.

7.12.3 Removal After Completion

(a) Remove field samples and mock-ups from the Project site and structures after completion and acceptance of the affected Work, or as otherwise ordered by HART.

7.13 Quality Control

7.13.1 General

(a) The Contractor is required to implement and maintain a quality program that defines how the Work is to be performed and controlled and is responsible to ensure that the Work meets Quality Control (QC) requirements for each design and construction activity and that the Work is performed in accordance with the accepted Quality Assurance Plan (QAP), which includes quality control procedures and process for control testing, and documentation of records.

(b) The Contractor's Independent Testing Laboratory: the Contractor shall submit within thirty (30) days after the effective date of the NTP, the name, qualifications, and experience of the Contractor's Independent Testing Laboratory and all subcontracted Testing Laboratories.

7.13.2 Contractor's Design QC

(a) Prepare a Design Review Plan. The Design Review Plan shall be a part of the QAP and shall be submitted for HART review and comment prior to the start of design. The Design Review Plan shall include quality responsibilities of the Design Manager and the Quality Manager. The Design Review Plan shall be specific to each stage of design development. The Design Review Plan shall establish the process by which the Contractor will make a distinct comprehensive design check and design review of plans and specifications at each stage of design development and prior to submittal to HART.

(b) At minimum, the Design Review Plan shall specifically address the Contractor's processes for the following:

- (1) Early clarification of Contract Specifications which influence the design;
- (2) Design coordination and confirmation with third parties and Project stakeholders;
- (3) Design coordination and confirmation with other HART contractors; and
- (4) Interdisciplinary coordination within the Contractor's own design.

(c) At the conclusion of each Design Review, a design review briefing shall be conducted by the Design Manager. The Quality Manager and any design professionals having significant input into the design or review shall be present. The Contractor shall notify and invite HART to observe in these meetings. HART may invite other stakeholders to attend.

(d) The Contractor shall have ready to provide or make available to all participants of the design review meetings all documents (e.g., drawings, reports, specifications, Basis of Design Memoranda and other technical memoranda as necessary to support its design decisions) pertinent to the design review, including all prior comments and actions resulting from the comments. The Contractor shall prepare and distribute minutes from the review meetings.

7.13.3 Contractor's Construction QC

(a) The Contractor shall hold preparatory construction planning meetings (pre-activity or pre-installation meetings) before the start of a definable feature of Work. The purpose of the meetings is to verify that Construction Drawings, Construction specifications, working drawings, and other construction documents are the most current version; that all comments have been resolved on relevant submittals; that necessary materials and equipment are on hand; that personnel are certified, prepared, and understand the requirements and procedures necessary to perform the Work; and that QC inspections and tests to be performed during the Work are established and documented; and that inspections and test procedures and pass/fail criteria are clearly identified.

(b) The Contractor's Construction QC requirements shall be prepared for each construction activity as a part of the QAP. The Construction QC includes, but is not limited to, the following elements:

- (1) Requirements of the QC of all Work;
- (2) Training and qualifications of QC personnel;
- (3) Subcontractor QC controls;
- (4) Installation, inspection, examination, and test control;
- (5) Control of measuring and testing equipment;
- (6) Materials control;
- (7) Supplier and vendor controls;
- (8) Control of nonconforming items;
- (9) QC documentation and records control; and
- (10) Special process control.

(c) Prior to the Contractor's completion of its QAP, the Contractor may prepare and provide to HART for its files, specific Quality Plans for these early activities prior to their commencement. Such plans may be subsequently incorporated as a part of the overall QAP.

(d) The Contractor's QC activities during construction shall include:

- (1) Inspection and Testing (see 7.13.4 below)
- (2) Field-Test Materials: Provide QC sampling and testing to confirm that furnished materials are of quality specified, and furnish quality level analysis during production when required by the QAP, Inspection Testing Plan (ITP), and/or Construction Documents. The Contractor shall provide written notification to HART of any variance from sampling and testing methods and frequencies specified in the QAP, ITP, or the Construction Documents.
- (3) Non Field-Tested Materials: Materials that are not field-tested materials shall conform to Contract Specifications and requirements. For non-field-tested materials, the Contractor shall provide Quality compliance documents, including the Certificate of Compliance. Quality compliance documents include test results, certifications, quality compliance certificates, and equipment list and drawings. The Contractor shall accept non-field-tested materials for use according to the QAP, ITP, and Construction Specifications.
- (4) New Materials and Equipment: Install new materials and equipment for permanent construction. For any material for which no specification is provided, use the highest quality of its class or kind. For purposes of this subsection, "new" is defined as unused material purchased specifically for this Project.
- (5) Handling, storage and shipping shall be conducted in a manner that prevents damage, deterioration or theft, such as, storing hardware and materials in designated controlled areas (for example, stock rooms, environmentally controlled rooms, and segregated areas) in a manner that facilitates accountability.
- (6) Special Inspection (See 7.13.4(e) below)

(e) As-Built Documents shall be produced, maintained and controlled by the Contractor to ensure that the “red-lines” accurately document the constructed Work inclusive of corrected non-conformances and any authorized changes to the Final Design. These modifications to the Final design shall be incorporated into the final Record Drawings and Record Specifications and shall be properly notated on the records plans and specifications and that Quality documents and Project records indicating variances or changes have been reflected on the plans and specifications.

7.13.4 Contractor’s QC Representative

(a) The Contractor shall provide HART the name and contact details of the Contractor’s QC Representative, who will be monitoring the quality of construction activities. The Contractor’s QC Representative shall be able to provide such oversight of the Work free from pressure of costs, construction scheduling and production. The Contractor’s QC Representative’s duties include performing quality verification and audits, which shall identify and record non-conforming items, processes, or conditions. The Contractor’s QC Representative shall have the authority to initiate corrective action processes and verify that effective implementation of corrective action is in place. The Contractor’s QC Representative’s duties also include training employees, so that their roles are performed effectively and initiating preventive actions to avoid potential nonconformance.

(b) The Contractor shall submit within fifteen (15) days after the effective date of the NTP, the name, qualifications and experience of the Contractor’s proposed QC Representative. HART has the right to reject the proposed QC Representative, and the Contractor must resubmit another candidate within fifteen (15) working days of HART’s rejection.

7.13.5 Contractor’s QC Inspection and Testing

(a) The Contractor shall perform QC inspection or testing of materials prior to delivery from a manufacturer or during construction, as often as necessary to ensure compliance with Contract requirements. Tests include, but are not limited to, soils compaction test, load test, concrete tests during placement, concrete strength test, pipe leakage tests, and other tests as specified in the Construction Documents.

(b) In conducting Quality inspections and tests, the Contractor’s responsibilities and requirements include, but are not limited to:

- (1) Assuming full responsibility for quality control testing and giving HART sufficient notice to witness tests;
- (2) The Contractor’s inspectors inspecting all construction processes, procedures, and workmanship. Inspection includes observations and measurements specified in the QAP and the Contract Documents;
- (3) The Contractor shall define the testing requirements utilized in the QAP and ITP. Methods utilized for testing shall be supported by a recognized national organization and based on the most current testing standards. The Contractor shall use the latest, most current Construction Specification in effect on the day a test is performed. Self-certifications will not be accepted;
- (4) The independent testing firm hired by the Contractor shall be a certified testing laboratory, which conducts field-tested materials using testing laboratories that are nationally recognized for applicable tests;
- (5) The Contractor shall submit the name, address, and qualifications of the proposed independent testing firm, together with the scope of proposed testing services, to HART at least thirty (30) days prior to scheduled commencement of any Work

involving such testing. Should the Contractor desire to use more than one firm for quality control testing, the Contractor shall submit required information for each proposed firm; and

- (6) Throughout the term of the Contract, the Contractor shall ensure that the certification of the laboratories is at all times valid and current.

(c) **Test Reports:** The Contractor shall submit test results to HART within five (5) days after completion of testing performed by or for the Contractor. The following information shall be included as part of test reports:

- (1) Actual test results compared with Contract requirements and identification of all nonconforming items.
- (2) Calibration certificate for measuring and testing equipment.

(d) **Manufacturer's Certificates of Compliance:** The Contractor may use certificates of compliance for certain materials and products in lieu of specified sampling and testing procedures. However, HART reserves the right to refuse use of certain materials on the basis of certificates of compliance. HART will accept manufacturer's certification furnished by the Contractor on items of materials and equipment incorporated into the Work, but only to the extent that such items are in full compliance with Contract requirements. HART's acceptance of the manufacturer's certification of compliance does not relieve the Contractor of its obligation to satisfy the Contract Specifications. A manufacturer's certificate of compliance must meet the following requirements:

- (1) Original certificates must be submitted. An authorized representative of the producer or manufacturer shall sign certificates and state that the material complies with the Contract requirements. The certificates shall include the Contractor's name and address, project name, and location.
- (2) Certificates must identify materials or equipment being certified and include information that is specified for submittals in the General Conditions. Certificates must also identify:
 - (A) Referenced standard as applicable;
 - (B) Name and address of organization performing the tests;
 - (C) Date of tests and quantity of material shipped; and
 - (D) Date(s) of shipment or delivery to which certificates apply.
- (3) Along with the certificate of compliance, the Contractor shall provide a certified copy of test results.
- (4) Materials used on the basis of a certificate of compliance may be sampled and tested by HART at any time. Use of a certificate of compliance does not relieve the Contractor of its responsibility for incorporating material in the Work that conforms to requirements of the Contract. Any material not conforming to requirements will be subject to rejection, whether in place or not.

(e) **Special Inspection:** The Contractor shall retain a qualified, independent, third party Special Inspector to perform special inspections, including but not limited to that required in Chapter 17 of the International Building Code for performing special inspections. The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of HART, for inspection of the particular type of construction or operation requiring Special Inspection.

7.13.6 HART Inspections and Tests

(a) HART will perform Independent Assurance (IA) or verification testing of field-tested materials using independent testing laboratories in coordination with the Contractor's testing laboratories performing QC testing of materials. Testing laboratories will be either HART's Testing Laboratory or HART-contracted independent testing laboratories.

(b) HART may perform inspections and tests as necessary to determine the Contractor's compliance with Contract requirements. HART may perform additional inspections and tests as it deems necessary to verify compliance with Contract requirements.

(c) Surveillance Inspection: HART may review, observe, or inspect Contractor personnel, material, equipment, processes, and test results performed at random or at selected stages of construction operations.

- (1) HART surveillance inspection does not take the place of Contractor's quality programs or assume any responsibility for such programs or quality of Work. The Contractor's quality program specifies requirements for inspections and necessary documentation to ensure that acceptable quality has been achieved, including quality of Work performed by subcontractors.
- (2) The Contractor shall provide access to the Work and furnish HART reasonable facilities for obtaining information as may be necessary to be fully informed of quality and progress for the Work.
- (3) Materials Testing: HART may perform materials testing to examine, test, or analyze, sample products or workmanship including, when appropriate, raw materials, components, and intermediate assemblies.

(d) The Contractor shall provide such facilities and assistance as the testing laboratory may require for obtaining necessary samples.

(e) HART may impose inspection witness and hold points to verify compliance to the Construction Specifications during all phases of Work. The Contractor shall not proceed with Work until each witness and hold point has been released by HART. HART inspections do not relieve the Contractor from performing Contract-required inspections and internal in-process and final inspections and compliance with Contract requirements.

(f) The Contractor shall be responsible for all re-testing's if the inspection and testing show that the Work or materials are not compliant with the Construction Specifications.

(g) Covered Work Areas:

- (1) If a portion of the Work area is covered, contrary to the request of HART or to the requirements specifically expressed in the Contract, the area must be uncovered for inspection and be replaced at the Contractor's expense without change in cost or Contract time.
- (2) If a portion of the Work has been covered which HART has not specifically requested to inspect prior to its being covered or is not expressly required by the Contract to remain uncovered for inspection, HART may request to see such Work, and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract, costs of uncovering and replacement shall, by appropriate change order, be charged to HART. If such Work is not in accordance with the Contract, the Contractor shall pay such costs, unless the condition was solely caused by HART.

(h) If Work is not in accordance with the Contract, the Contractor shall promptly correct the Work rejected by HART for failing to conform to the requirements of the Contract, whether or not fabricated, installed or completed. The Contractor shall bear all costs of correcting such rejected work, including additional testing and inspection and compensation for any consultant services and expenses incurred by HART.

(i) The Contractor shall remove from the site, portions of the Work, which are not in accordance with the requirements of the Contract Documents, and are neither corrected by the Contractor nor accepted by HART.

(j) The Contractor shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of HART or other contractors caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract.

(k) Nothing contained herein this Section shall be construed to establish a period of limitation with respect to other obligations which the Contractor might have under the Contract.

7.13.7 HART QC Audits

(a) HART may perform quality control audits of the Contractor's, subcontractors' or suppliers' quality records and performance. The Contractor shall ensure that all quality control records and work locations are open and available to HART for inspection.

(b) The Contractor, subcontractor, or supplier who is being audited shall be available during the HART audit as requested.

(c) Any deficiencies or nonconforming items identified during the audit will be documented in a Non-Conformance Report (NCR). The Contractor shall remedy all items included in the NCR until written notification by HART that the NCR is closed. An open NCR shall preclude Substantial Completion, closeout of the Contract, and payment to the Contractor for milestones associated with the NCR items, including final payment.

7.14 Temporary Utilities

(a) The Contractor shall determine temporary utility services needed to prosecute the Work, including HART and Contractor construction field facilities, and make arrangements and connections with utility companies for such services.

(b) The costs incurred for obtaining permits and payment of any connection and usage fees required for installation and usage of temporary utility services described herein shall solely be the responsibility of the Contractor.

(c) **Temporary Electrical Service:** The Contractor shall ensure that temporary electrical power is provided for the Project to facilitate construction operations. The Contractor shall:

- (1) Provide terminations for each voltage supply complete with circuit breakers, disconnect switches, and other electrical devices, as required, to protect the power supply system.
- (2) Furnish, install, and maintain a temporary lighting system as required by the building trades installed as specified in Occupational Safety and Health Administration (OSHA) requirements to comply with safety and security requirements. Provide temporary lighting system for illumination in all areas.
- (3) Install all temporary equipment and wiring for power and lighting as specified in the applicable provisions of the governing codes.
- (4) Provide power centers for electrically operated and controlled construction facilities, including tools, equipment, testing equipment, and interior construction lighting, and ventilation equipment. Locate power centers so that power is available at any desired point with no more than 100 feet extension.
- (5) When the permanent electrical power and lighting systems are in operating condition, they may be used for temporary power and lighting for construction purposes if accepted by HART.
- (6) Submit a plan of proposed false work lighting installations.

(d) **Temporary Water Service:** Furnish water necessary for construction purposes and ensure continuous water supply to the Project site for emergencies. The Contractor shall:

- (1) Make temporary connections to existing mains;
- (2) Provide temporary meter and make all arrangements and pay charges for the temporary water service including cost of installation, maintenance, water usage, and sewer usage if applicable. Provide all water necessary for construction purposes; and
- (3) When the permanent water supply and distribution system for a HART facility or irrigation system that the Contractor is constructing has been installed, it may be used as a source of water for construction purposes if accepted by HART. Provide all water necessary for construction purposes. Make all temporary connections to existing mains; provide temporary meter; and The Contractor shall maintain full responsibility for the water supply and distribution system and make arrangements and pay for the temporary water service, including cost of installation, maintenance, water usage, and sewer usage if applicable. Furnish drinking water with suitable containers and cups. Drinking water dispensers shall be conveniently located in the building where Work is in progress.

(e) **Temporary Sanitary Service:**

- (1) Temporary sanitation facilities for the use of employees on the work site shall be provided and maintained by the Contractor and their exclusive use strictly enforced. These facilities shall comply with the requirements and regulations of the State, Department of Health.
- (2) The Contractor's temporary sanitation facilities shall be located so that they are as inconspicuous as possible to passing motorists and the facility users.
- (3) The facilities shall be adequately supplied with toilet paper, paper towels, and related supplies.
- (4) In parks and other sites where there are comfort stations and/or public facilities, the Contractor will not be required to provide sanitation facilities, but only if the use of the facilities is for fifteen (15) employees or less. The Contractor shall be responsible to keep the City facilities used by its employees clean and respectable.
- (5) Use of sanitary facilities in adjacent commercial buildings, tenant areas, or other private facilities is not permitted, unless other arrangements are made by the Contractor.
- (6) When the permanent sewage system for a HART facility that the Contractor is constructing has been installed, it may be used as a sanitation facility if accepted by HART. Provide all water necessary for construction purposes. Make all temporary connections to existing mains; provide temporary meter; and the Contractor shall maintain full responsibility for the sanitation facility and make arrangements and pay for the facility, including cost of maintenance, water usage, toilet paper, paper towels, and related supplies.
- (7) At completion of the Work, the Contractor shall disinfect the sanitation facility and remove temporary sanitary facilities from the Project site.

(f) At the completion of construction Work, the Contractor shall remove all materials and equipment involved with temporary utility services as part of final cleanup, except as otherwise required by the Contract Documents. The Contractor shall restore the premises used for temporary utility services to existing conditions, or better.

7.15 Construction Facilities

7.15.1 Construction Facilities

(a) The Contractor shall maintain for the duration of the Contract, a permanent place of business within Oahu, where the Contractor may be served notice and legal process. Written notice may also be served with the Contractor on the Project site personally or via fax, email, or the local post office address or post office box.

(b) The Contractor shall pay for all office and other building space, facilities, and equipment required to meet the requirements of the Contract, including providing an office space in the Contractor's field office(s) for HART's use and construction parking.

(1) The presence or absence of a HART representative for the field office shall not result in the waiver of any requirements of the Contractor; nor shall any act, statement, or omission by a HART representative constitute or be deemed a change.

(c) In making arrangements, the Contractor shall:

(1) Locate the Contractor's project management staff in close proximity to HART's project management staff;

(2) Provide facilities for key personnel to be present in the local office so that they may be available to HART and the Project, whenever required; and

(3) Locate the field office in close proximity to the Project. Location to be approved by HART.

(d) Facilities and Space Requirements: The field office(s), where HART will be provided office space, shall have in place all utility connections and supply, including domestic water, filtered drinking water, electricity, telephone, and sewer. It shall be the Contractor's responsibility to pay for all costs in providing and supplying temporary utility services until at least thirty (30) days after Final Acceptance or after facilities are no longer needed by HART, whichever is earlier.

(e) The field office shall be in good repair and in a clean and sanitary condition and available for occupancy as specified.

(f) The Contractor shall secure the sites, obtain all site permits, install, set up, provide utility services, and maintain the facilities as part of the Work. The facilities shall meet local code requirements for office space and comply with the requirements of the Land Use Ordinance of the City and County of Honolulu, relating to Special Permit Use, and ADAAG requirements.

(g) The field office shall have at least two exits from each building or trailer. Entrance to the offices shall be secured with a door lock plus a dead bolt lock.

(h) All interior spaces shall have overhead lighting that meets OSHA and code requirements for office space. Each work space/office shall have at least two duplex receptacles. There shall be a minimum circuit capacity of 20 amps.

(i) Each office/work space and conference room shall be wired for phone and computer local area network (LAN). Telephone service shall be provided with outside lines for each office/work space in the field office facility, including local and long distance calling. Provide telephone sets with headsets for each office/work space and conference room. At least one additional line will be dedicated for fax service and one additional line will be dedicated to high speed data service. The phone system shall be capable of providing voice mail service to each extension. Establish and maintain telephone and radio communications, as appropriate, to local and regional emergency response agencies, or entities and utility owners. Do not use police or other emergency services' radio frequencies.

(j) The Contractor shall provide daily janitorial service and supplies (except weekends and Holidays) and provide, service, and maintain trash/recycling containers and trash/recycling pickup service.

(1) Restroom supplies shall be provided including toilet paper, paper towels, and soap.

(2) Contractor shall be responsible for maintenance of the exterior area of the field office, including the parking areas.

(k) Provide blinds and walk off mats as needed.

(l) Equipment, supplies, and service for copying, computer, printing, paper shredding, and fax shall be provided.

(m) The field office shall have ventilation and air conditioning/cooling systems capable of maintaining temperature between 70 and 75 degrees Fahrenheit in all spaces throughout the year and meet the required air quality requirements as required by under OSHA laws.

(n) Site identification signage shall be provided at all Project offices, and all sites of Work. See GCDB Section 7.25, Project Identification.

(o) In the event that office spaces or appurtenant facilities are destroyed or damaged during the Contract period, except by fault of HART or its personnel or *force majeure*, the Contractor, at its expense, shall repair or replace those items that the Contractor provided, to their original condition within ten (10) days.

(p) The Contractor shall provide and maintain the field offices and HART office space(s) for at least 30 days after Final Acceptance of the Work or until facilities are no longer needed, whichever is earlier, unless otherwise agreed by HART in writing. The Contractor shall be responsible for the disposal or removal of all Contractor-provided facilities and any site restoration Work required.

(q) Ownership of the field office, equipment, and telephone remains with the Contractor and shall be removed when instructed by HART.

7.15.2 Construction Parking and Worker Transportation

(a) **Parking for Contractor Employees and its Subcontractors:** HART will make no provisions for construction parking. It shall be the Contractor's responsibility to provide construction and employee/workers parking. Parking shall be ADAAG compliant.

(b) **Restrictions:**

(1) Due to the limited amount of parking available to residents and businesses in and around the locations of the Work, personal vehicles shall not be parked in the public right-of-way or in commercial areas where general parking has been prohibited for construction or safety purposes.

(2) Project personnel shall not park their personal vehicles in private business parking lots without prior approval from the business owner.

(3) On-street parking by Contractor employees shall not be permitted within the vicinity of the Work site. During actual hours of Work, park construction vehicles only as absolutely necessary.

(4) The Contractor shall provide specific off-site and off-street area(s) or portion(s) of lots for the use by Project employees during the working day in close proximity to the Project site to serve construction Work adequately and result in minimum interference with performance of Work.

- (5) The Contractor shall ensure that Contractor and subcontractor employees are prohibited from parking anywhere other than Contractor- furnished parking area. Employees will not be allowed to utilize commercial parking facilities as that reduces/eliminates the available parking for the customers/employees of the local businesses.

7.16 Maintenance of Traffic

7.16.1 Traffic Control

The Contractor shall prepare a Transportation Management Plan, Maintenance of Traffic (MOT) Plans, Traffic Control Plans (TCP), and Detour Plans as necessary to obtain design approvals, and site-specific MOT, site-specific TCP, and site-specific Detour plans for obtaining permits for closing traffic facilities from HART, HDOT, and DTS.

(a) The site-specific MOT Plans, site-specific TCPs, and site-specific Detour Plans shall comply with the following requirements:

- (1) Shall be stamped by a Professional Engineer registered in the State of Hawaii;
- (2) Shall be submitted to HART for HART's acceptance at least fifteen (15) working days prior to commencement of the associated Work activity;
- (3) Shall comply with the conditions of the MOT plans, TCP, and Detour Plans provided for design approvals;
- (4) Shall maintain acceptable levels of traffic service and safety during all Work activities on the roadway;
- (5) Shall include a description of the Work activity, duration (estimated number of calendar days), the days and hours operation, and other requirements as listed in the Contract Documents;
- (6) Shall include ADA Compliant provisions for maintaining bus operations and pedestrian and vehicular access to adjacent properties.
- (7) Shall comply with the latest requirements of the follow:
 - (A) Department of Planning and Permitting (DPP) – Traffic Review Branch;
 - (B) DTS;
 - (C) Traffic Code for Honolulu;
 - (D) "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highway in the State of Hawaii," adopted by the Director of Transportation;
 - (E) Federal Highway Administration's latest version of the "Manual of Uniform Traffic Control Devices (MUTCD) for Street and Highways, Part VI – Traffic Controls for Street and Highway Construction and Maintenance Operations,";
 - (F) The Contract Documents; and
 - (G) Directives issued by HART to eliminate other traffic problems and hazards.

(b) The Contractor shall comply with the following requirements:

- (1) For City Maintained State Highways designated in the Master Agreement between HART and HDOT, obtain a HART Street Usage Permit from HART prior to commencing Work on any portion of the highway. A copy of the Master Agreement between HART and HDOT will be furnished to the Contractor upon the Contractor's request.
- (2) For State traffic facilities under the jurisdiction of HDOT Airports Division obtain an HDOT permit from the Airports Division. For other State Highways obtain an

HDOT permit from HDOT Oahu District. The permit shall be obtained prior to commencing Work on any portion of the traffic facility.

- (3) For City Streets, obtain a City Street Usage Permit from City's Department of Transportation Services prior to commencing Work on any portion of a City Street.
- (4) Provide copies of all permits issued for street usage to HART.
- (5) Variances from the site-specific plans shall only be for emergencies affecting life and property. The Contractor shall immediately notify HART and/or HDOT, as applicable, of any such emergency changes.
- (6) Lane closures shall maintain the minimum number of through traffic lanes in accordance with project-specific lane closure charts. No lane closures will be allowed during the Island of Oahu 24-hour periods listed in subsection 645.03(F) of the Hawaii Department of Transportation Standard Specifications. Exceptions to the lane closure hours will require written acceptance from HART. Lane closures on Interstate Freeways and ramps will require additional coordination in accordance with GCDB Section 7.16.2. If the Officer-in-Charge (OIC) determines the permitted closure hours adversely affect traffic, the OIC may adjust the hours accordingly. The OIC will notify the Contractor in writing of any change in the closure hours.
- (7) "Rental fees" will be assessed in accordance with the Contract Specifications for failure to provide the minimum number of lanes open to traffic in accordance with the project-specific lane closure charts.
- (8) Where Work is occurring in consecutive blocks along the street or highway, the temporary lane closures shall be in line with each other, instead of staggered, to minimize the weaving of traffic and shall be coordinated to ensure that simultaneous detours are not required.
- (9) Where Work requires the closure of an exclusive left-turn lane along the facility, the preceding and following left-turn lanes shall remain open to ensure adequate circulation for detoured traffic. Exceptions may be allowed if approved in writing by HART. The Contractor shall identify detour routes on the site-specific TCPs and install and maintain the detour signage.
- (10) Where the Work area obstructs an existing bus stop, the bus stop shall be temporarily relocated in an ADA accessible location in coordination with Oahu Transit Services (OTS) fourteen (14) days prior to the obstruction to the existing bus stop.
- (11) Where Work area obstructs existing pedestrian facilities such as walkways and crosswalks, alternative and/or temporary ADA accessible routes shall be provided. Temporary walkways shall have a width of not less than four (4) feet.
- (12) Provide special duty officers as needed to provide for traffic flow and safety based on the complexity of the TCP, for each location shown on the Project TCPs, as specified in the applicable street usage permit, or as specified in the Contract Documents.
- (13) Prior to starting Work on each phase requiring traffic control, demonstrate to HART's satisfaction that necessary materials, equipment, and personnel are on site and that, once started, Work can be completed in an expeditious manner without interruptions. Schedule surface operations so that Work is not carried on, intermittently, throughout the area. Schedule excavation or construction activities and

pursue to complete as required to permit opening of street areas to traffic without unnecessary delays.

- (14) The Contractor shall assume full responsibility for determining that the jurisdiction through which its haul routes pass will permit the hauling operations with respect to laden weights, type of vehicle, frequency and dimensions of loads, required traffic control and hours of operation. All necessary permits, licenses or bonds shall be obtained and paid for by the Contractor. The unavailability of haul routes or limitations thereon shall not become a basis for claims, for damages or extension of time for completion of the Work.
- (15) Notify Honolulu Police Department (HPD), Honolulu Fire Department (HFD), and Oahu Transit Services of Honolulu, Inc. (OTS), fourteen (14) days prior to any Work blocking any street during construction. Arrange for and pay for all services required by HPD during construction operations on all roads.
- (16) Notify the Traffic Signals and Technology Division, DTS, seventy-two (72) hours prior to any construction within any signalized intersection. The Contractor is responsible for any and all damages to existing traffic signal conduits and loop detectors as a result of its Work. The Contractor shall repair all damages within 24 hours.
- (17) Cooperate with HART, DTS, and other authorized persons in positioning all traffic control devices. If the Contractor fails to promptly provide adequate traffic control devices, HART may provide them at the Contractor's expense. The Contractor shall pay the cost of such work to HART, or HART may deduct the cost from any moneys due the Contractor from HART.
- (18) When material excavated for construction is placed adjacent to the trench or excavation, it shall be placed in such a manner as to economize space and minimize interference with traffic and shall conform to procedures or instructions given by the Department of Environmental Services, Stormwater Quality Division. If necessary, confine such material by suitable bulkheads or other devices. If the street is not of sufficient width to hold excavated material without using part of adjacent walkway, the Contractor shall:
 - (A) Provide a passageway in compliance with the ADAAG requirements;
 - (B) Obtain the necessary street usage permit from the appropriate agency that authorizes the use of the adjacent walkway; and
 - (C) Keep the passageway open at all times.
- (19) If applicable, provide and post signs banning parking on streets to be worked on at least twenty-four (24) hours prior to the Work. Cover all existing parking regulation signs and uncover them after the completion of Work. Signs shall conform to the following requirements:
 - (A) Mount signs on 4-foot high portable stands;
 - (B) Size: 18" x 24" x 0.063" with 1-1/2" radius corners;
 - (C) Materials: Aluminum conforming to ASTM Designation B 209-68;
 - (D) Paint: shall be 3M Scotchlite Process Color or equal;

- (E) Color: Red lettering on white reflectorized background except at the upper left corner where the word “No” will be white lettering on red background; and
- (F) Information on Signs: Signs shall contain the following information and conform to the layout as shown here:

NO PARKING
[TIME] AM to [TIME]
MM/DD/YYYY
[ACTIVITY (e.g. “ROAD RESURFACING”)]
PARKED CARS WILL
BE TOWED AWAY

- (20) While construction is in progress within any public street, provide and maintain traffic lanes in good condition. During non-working hours, cover all trenching located within the existing pavement area and open all lanes to traffic. Cover all trenches within the sidewalk areas with a safe, non-slip bridging material, providing safe passageways for pedestrians. The Contractor shall provide proper traffic bridges where necessary so that all streets, roads, lanes, alleys, driveways, and garages will be accessible to traffic at all times. These bridges shall be constructed so that their decks are flush with the pavement, and maintained free from projecting nails, splinters, or rough edges. In lieu of the traffic bridges, the Contractor may use suitable steel plates. The bridges or steel plates shall be able to support all legal highway loads permitted by law and shall have a non-skid surface. Any steel plate edges shall be in conformance with accessibility requirements pursuant to the Americans with Disabilities Act and related regulations and guidelines.
- (21) Maintain the safety of motorists, pedestrians, bicyclists, and workers in the vicinity of construction and maintenance areas at all times. When traffic conditions dictate, modify Work operations for such length of time as required to alleviate hazardous traffic conditions.
- (22) Safe Passage and Access to Site. The Contractor shall employ such methods in the performance of the contract and provide such barriers, guards, temporary bridges, detours, notices, lights, warnings, and other safeguards as may be necessary to prevent injury to persons and property, and to provide safe access to property. The Contractor shall define the line of safe passage with suitable lights, wherever the public may have access to the site of the Project. All passages and accesses shall be in conformance with the Americans with Disabilities Act and related regulations and guidelines. When excavations cross street intersections, provide and maintain safe crossings for vehicles and pedestrians. Provide safe nonslip material for pedestrian crossings separate from vehicle crossings. Provide handrails except in areas opened for vehicular traffic.
- (23) Public and Private Right-of-Way. The Contractor shall provide safe access to property abutting the site of the project when the usual means of access are obstructed by the performance of the contract. The Contractor shall provide free access to water meters, water valves, and abutting public and private property. No material or obstruction of any sort shall be placed within twenty-five (25) feet of any fire hydrant. Fire hydrants must be readily accessible to the fire department at all

times. Special attention is called to private and public rights-of-way. Driveways shall be kept open unless the owners of the property using these rights-of-way are otherwise provided for satisfactorily. During the construction of driveways and driveway ramps, satisfactory access shall be provided by the Contractor for each driveway and driveway ramp. The accesses provided by the Contractor shall conform to any and all accessibility requirements pursuant to the Americans with Disabilities Act and related regulations and guidelines.

- (24) Vehicle load restriction shall be in accordance with DTS and HDOT requirements, unless the Contractor has obtained an over-legal load permit from the appropriate agency. Movement of any oversized Project construction equipment or material shall be in accordance with DTS and HDOT requirements. No such oversized load is to be moved over public streets without first obtaining approval of the DTS or HDOT, as applicable.
- (25) Remove all temporary signs, barricades, barrier curbs, crash cushions, drums, and cones used to safeguard traffic in connection with construction work at the close of the Work day, unless the Work is such that warning devices are still needed and are adapted for night work lane closures.

7.16.2 Coordination with HDOT

(a) The Contractor shall coordinate Work with HDOT (Highways or Airport, as applicable) and comply with the following requirements:

- (1) Prepare and submit site-specific MOT Plans, TCP's and Detour Plans, as necessary to HDOT Oahu District or HDOT Airports Division, for review and approval, and obtain an HDOT permit when constructing within a State Highway or transportation facility;
- (2) Provide a 30-day advance notice to HDOT for any and all traffic restrictions on a State Highway lane or ramp, or within the Airport;
- (3) Coordinate with HDOT on all details of access and egress to the Work from HDOT right-of-way, and all details of construction staging areas within HDOT right-of-way;
- (4) Lane Closures on Interstate Freeways and ramps will require approval from the Director of the State of Hawaii Department of Transportation;
- (5) Obtain approval for all lane closures or restrictions within right-of-way proposed by the Contractor. These include closures or restrictions along State Highways, lanes, or ramps; and
- (6) Obtain HDOT approval to close additional lanes, left-turn movements, and cross street movements not shown in the project plans. These closures may only be considered for non-peak traffic periods.

7.17 Discovery of Contaminated Material

7.17.1 Contractor Responsibility

(a) In the event the Contractor encounters onsite Contaminated Material (the Contaminated Materials encountered by the Contractor is likely to be soil or groundwater, but is not limited to soil and groundwater), the Contractor shall immediately stop work in the affected area, properly secure or otherwise isolate such conditions, and notify HART. The Contractor shall also submit a written notification of the condition. Work in the non-affected areas can continue.

(b) The Contractor shall proceed with evaluation, field screening, sampling, and initial hazard determination in accordance with the Contractor's Site Safety and Security Plan (SSSP), the Contractor's Environmental Compliance Plan (ECP), the HART Programmatic EHE-EHMP, Project Technical Specification 02 26 00 Discovery and Assessment of Suspect Contaminated Material, and other applicable Contract Documents.

(c) The Contractor shall be responsible for the removal, handling, and disposal of Contaminated Material in accordance with the Contractor's SSSP, the Contractor's ECP, the HART Programmatic EHE-EHMP, and HART Standard and/or Project Specification 02 61 01 Removal and Disposal of Contaminated Material per the Contract Documents.

(d) **Notice.** The Contractor shall give any notices required by law and/or bearing on safety of persons or property or their protection from damage, injury or loss and any other required notices or reports and comply with applicable laws, ordinances, rules, regulations and lawful orders of public authorities.

7.17.2 HART Responsibility

(a) HART will review the Contractor provided information and make a final hazard determination.

(b) HART will manage Hazardous Material and/or Hazardous Waste as defined in GCDB Chapter 2.

7.18 Historical and Archaeological Finds

7.18.1 Historical and Archaeological Finds, Including Burials

(a) The Contractor shall comply with Stipulation XII.B of the Programmatic Agreement, attached hereto as Attachment D, regarding inadvertent discoveries of historical or archaeological finds, including burials, during construction operations. In the event of any conflict between (1) Chapter 6E, Hawaii Revised Statutes, and the Hawaii Administrative Rules promulgated thereunder (collectively, "HRS Chapter 6E") and (2) the PA, the requirements of HRS Chapter 6E shall govern.

(b) In the event of the discovery of suspected human remains (burials) or other archaeological items, Contractor shall immediately stop Work within a 50- foot radius and secure the site. No photos shall be taken of human remains or suspected human remains. The Contractor's Project Manager shall contact HART and the Project Archaeologist of Record. Upon confirmation of a find of human skeletal remains, the Project Archeologist of Record will notify the State Historic Preservation Division, Coroner's Office and Honolulu Police Department.

(c) If the Archaeologist of Record cannot respond immediately, Contractor shall secure the location and, if possible, cover the excavation with a steel plate. In any case, Contractor shall ensure that the remains are covered by tarp or cloth. The Contractor shall contact HART immediately.

7.18.2 Training

(a) The Contractor shall attend a HART provided historic preservation and cultural awareness training orientation class (assume one hour on an annual basis). This applies to Contractor personnel assigned to the Project and Project personnel that the Contractor is responsible for. Training shall include the following topics:

- (1) Illegal collection and disturbance of historic and prehistoric cultural materials, including human remains;
- (2) Scope of applicable laws and regulations; and
- (3) Initial identification and reporting of archaeological materials, human remains, and historic buildings or structures that may potentially be discovered during the course of Work.

(b) The Contractor shall train equipment operators and laborers involved in excavation activities to identify and respond to inadvertent archaeological discovery.

(c) The Contractor shall make available to HART on an annual basis, at a minimum, training materials, schedules, and lists of persons trained.

7.19 Protection of Water Resources and Temporary Dust and Erosion Controls

7.19.1 General

(a) Protection of water resources and temporary dust and erosion controls, and installation, maintenance, monitoring, and removal of best management practices (BMPs) during construction shall be in accordance with Hawaii Standard Specifications (HSS) for Road and Bridge Construction, as cited herein.

7.19.2 Submittals

- (a) The Contractor's submittals under this Section include:
- (1) Site specific BMP plan and other water pollution, dust, and erosion control submittals as specified in HSS Section 209.03(A) – Preconstruction Requirements;
 - (2) Plan outlining design and construction methods for project dust control as specified in HSS Section 620.03(A) – Preconstruction Requirements;
 - (3) Weekly copy of BMP inspection records. Submit amounts expended for initializing and maintaining BMP as specified in HSS Section 209.03(B) – Construction Requirements;
 - (4) Copy of the National Pollutant Discharge Elimination System (NPDES) Hydro-testing Waters Application and Permit as specified in HSS Section – 209.03(C) – Hydro-testing Activities; and
 - (5) A work plan as required by permit, showing the method of diverting any surface water, temporary stream crossings, cofferdams, dewatering systems, or any other activity encroaching on surface waters and wetlands or affecting water quality. Work in surface waters and wetlands shall not commence until a plan that meets permit holder's requirements has been submitted.

7.19.3 Contractor Responsibility

- (a) The Contractor shall provide temporary water pollution, dust, and erosion controls as specified in HSS Section 209 and Section 620.
- (b) All Work shall be done in a way as to minimize or eliminate water pollution of surface water and wetlands and to minimize soil erosion caused by construction activities. Clearing of wetlands shall be limited to what is allowed by permit.
- (c) Wetland areas shall not be used for storage, parking, waste disposal, or any other construction activity unless specified for use by permit.
- (d) Pump effluent shall not be returned directly to any surface waters, but shall be confined in a settling pond for clarification prior to returning to any surface water, or sprayed onto a vegetated upland. Obtain a permit for any discharge into surface waters, including pump effluent, prior to commencing operations. On HDOT right of way, a permit from HDOT may also be required for diverting water by pumping or other means. The Contractor shall be responsible for all governmental compliance.
- (e) The Contractor shall keep vegetation clearing to a minimum. Stumps are to be cut to near ground level or remove; unless directed or approved otherwise, stumps serving as slope stabilization shall remain in place; conduct timber felling with methods designed to minimize damage to such areas; remove slash resulting from these operations where necessary to protect cover, soil, surface waters, and wetlands.
- (f) Revegetation of disturbed areas shall be in the following priority: (1) surface waters and wetlands, (2) all other areas. Revegetation and restoration of disturbed surface waters, and wetlands shall

return the areas to the predisturbed condition or as shown on the plans. These areas shall be protected and maintained from damage until Project Final Acceptance.

(g) The Contractor shall use dikes, berms, cofferdams, work platforms, bridges, culverts, or other acceptable methods to divert water from work areas in or near any surface water or wetlands. Fording or the operation of equipment in surface waters and wetlands shall be only as necessary to complete or remove the temporary surface water and wetland encroachment, or for short term work operations. All machinery and equipment working in or near surface waters and wetlands shall be rubber tired and free of leaking lubricants, coolants, fuel, or other contaminants. All temporary protective works shall be removed in a manner satisfactory to HART.

(h) **Water Pollution.** The Contractor shall comply with the provisions of Chapter 54, Water Quality Standards and Chapter 55, Water Pollution Control, of Title 11, Administrative Rules of the State of Hawaii Department of Health during all phases of work. The Contractor shall not pollute state waters or other water resources, including but not limited to, streams and drainage systems with any pollutant, including but not limited to, fuel, oils, bituminous materials, calcium chloride, acids, construction wastes, wash waters, or other harmful materials. Surface drainage from cuts and fills, whether or not completed, and from borrow and waste disposal areas shall, if turbidity producing materials are present, be held in suitable sedimentation ponds or shall be graded to control erosion to meet legally acceptable limits. Objectionable construction discharges shall be processed, filtered, ponded or otherwise treated prior to discharge into a waterway or drainage system to ensure compliance with the Clean Water Act and applicable permits. Such oversight shall not relieve the Contractor from obtaining permits and meeting any requirements under applicable statutes, ordinances, rules, regulations or guidelines.

(i) Work associated with dewatering activities shall comply with the requirements in HSS 209.03(D) – Dewatering Activities. The Contractor shall be responsible for the water and its control and disposal during the construction of all Work covered by the Contract. Dewatering shall be accomplished by suitable means. The Contractor shall repair any and all damages to property including buildings, retaining walls, resulting from such dewatering operations to the satisfaction of the owners of such property. Dewatering shall be prohibited in areas subject to substantial damages to adjacent buildings and properties resulting from settlement due to dewatering. All concrete pours shall be dewatered in accordance with the applicable sections of the requirements in HSS.

(j) Work associated with hydro-testing activities shall comply with the requirements in HSS 209.03(C) – Hydro-testing Activities.

(k) The Contractor shall examine the Project site and make all necessary arrangements with affected property owners for removal of water from the site. Cost for such work, as necessary, will be considered incidental to the Work.

(l) The Contractor shall provide a bridge or other means to prevent water from flowing into adjacent streets, as a result of the Contractor's activities, and interfering with traffic. Cost for such work, as necessary, will be considered incidental to the Work.

(m) The Contractor is responsible for all additional permits that may be required for removal of water from the site.

(n) **Dust Control.** The Contractor shall maintain all excavation, embankment, stockpiling and all other Work within or adjoining the Project site and shall perform its Work such that it will be free from dust or the release of particulate matter that would cause a hazard or nuisance or could harm human health or the environment. Chemical treatment, bituminous treatment, or similar methods of dust control will only be permitted upon acceptance by HART. Water sprinkling must be repeated at such intervals as to keep all pavements and disturbed areas at least damp enough to prevent dust nuisance at all times, and the Contractor shall have sufficient sprinkling equipment on the job. Wet cutting shall be required for

cement masonry blocks, concrete and asphaltic concrete pavements unless attachments are used with dry cutting equipment to capture the dust created thereby. All grinding work shall be wet. No dry powder brooming will be permitted in unconfined areas--vacuuming, wet mopping, wet sweeping, or wet power brooming may be used upon acceptance by HART. The Contractor shall control fugitive dust and comply with applicable state and federal permit conditions.

7.20 Invasive Species and Noxious Weed Management

7.20.1 General

(a) The Contractor shall use best management practices for the prevention, identification, and reporting of noxious and invasive species. During construction, the Contractor shall employ both preventive and control measures to mitigate the spread of noxious weeds to and from the construction site. The Contractor shall eradicate all discovered noxious weeds. Identified noxious weeds shall not be allowed to reach flowering or seed dispersal stage.

7.20.2 Contractor's Duties

(a) The Contractor's duties include educating construction workers about the importance of weed management and implementing preventive measures to control the spread of noxious weeds, since vehicles and construction equipment associated with construction activities can introduce seeds or rhizomes (horizontal stems) of noxious weeds to the Project site.

(b) The Contractor shall prevent and completely eradicate all noxious weeds in the right-of-way (ROW) that are listed in the State of Hawaii Department of Agriculture Administrative Rules, "Noxious Weed Rules," (HAR Chapter 4-68) and the following high-priority noxious weeds:

- (1) Fountain Grass (*Pennisetum setaceum*);
- (2) Bush Beardgrass (*Schizachyrium condensatum*);
- (3) Pampas grass (*Cortaderia selloana* and *Cortaderia jubata*);
- (4) Fireweed (*Senecio madagascariensis*); and
- (5) Long Thorn Kiawe (*Prosopis juliflora*).

(c) Noxious weed signage shall be prominently posted at the Contractor's trailer at the construction site. Signage shall include one 8.5" x 11" laminated color sign for each of the above listed high-priority noxious weeds.

(d) The Contractor shall obtain all necessary licenses and permits from applicable regulatory agencies for the specific methods proposed for clearing and removal of noxious invasive weeds species.

(e) When possible, the Contractor shall use mechanical methods (e.g., mowing, removal) or commercially available herbicides specified to control the weed species identified. All chemicals used and applied for weed management shall meet Material Safety Data Sheet (MSDS) requirements. If restricted-use herbicides are proposed for use, the Contractor shall ensure that they are applied by a licensed commercial applicator. For any herbicide use, restricted-use or otherwise, the Contractor shall ensure that the herbicide label is in the applicator's possession, that the applicator has proper safety equipment, and the applicator is prepared to handle chemical spills before they occur. If an herbicide spill occurs, HART shall be notified. The Contractor shall be responsible for properly and legally cleaning the spill and contacting any and all necessary governmental agencies. Herbicide mixing and application shall be done in accordance with instructions on the registered product label. The Contractor shall furnish such label information to HART.

(f) When utilizing herbicide, the Contractor's responsibilities include:

- (1) Notifying HART at least (twenty-four) 24 hours prior to each herbicide application and indicate the starting time and location of each application;
- (2) Herbicides shall not be applied when weather conditions, including wind conditions, are unsuitable for such work. Herbicides shall not be applied when soil is extremely dry;

- (3) Herbicides shall not damage the plant growth outside the designated treatment areas. The Contractor shall repair all damage caused by improper herbicide application at the Contractor's expense; and
- (4) For restricted-use herbicides, the Contractor shall keep a record of herbicide application by the commercial applicator and submit a copy to HART for its records.

(g) All noxious weeds not contained within the inventory report conducted prior to construction and discovered on the Project site after the inventory conducted by the Contractor and the inventory list provided to HART shall be deemed to have been introduced by the Contractor. (See GCDB Section 7.20.3 below regarding inventory requirements.)

7.20.3 Inventory and Eradication of Noxious Weeds

(a) Before and after the completion of construction work, the Contractor shall conduct a Right Of Way inventory of all existing noxious weeds and perform an inventory survey by a qualified independent botanist.

(b) The Contractor shall follow its plan and procedures, drafted and completed pursuant to GCDB Section 7.22.2(a)(3)(A)(ix), in eradicating invasive species and noxious weeds.

(c) The Contractor shall spray noxious weeds located within the Project limits prior to starting earth disturbing activities and if they appear during construction, using pre-emergent, selective and non-selective herbicides, as appropriate.

7.20.4 Equipment Cleaning

(a) The Contractor shall ensure that all equipment arrive at the project site clean and weed-free, using methods such as high-pressure water blasting or steam cleaning methods to clean all earth-moving construction equipment (scrapers, bulldozers, excavators, backhoes, trenchers) of dirt, mud, and seed residue prior to entering the project site. The Contractor shall periodically inspect and verify that equipment arrives at the project site free of soil and debris, which are capable of transporting noxious weed seeds, roots, or rhizomes.

(b) The Contractor shall thoroughly inspect seeding equipment prior to conducting seeding activities.

7.20.5 Record Keeping of Destination of Materials Removed from Site

(a) The Contractor shall maintain records of the destination of all earth, fill, or debris removed from the project site under this Contract and shall include in the monthly report, at minimum, the following:

- (1) Type of material;
- (2) Approximate quantity; and
- (3) Address of delivery location.

(b) Data for monthly reports shall be compiled and the reports provided to HART for HART's files. The Contractor shall provide a summary report to HART at final project acceptance or upon request anytime during construction.

7.20.6 Contractor Training

(a) Prior to commencement of clearing and grubbing activities, the Contractor shall ensure that all of its equipment operators shall attend training on the identification of weeds to be avoided and reporting procedures. The Contractor shall coordinate with the Oahu Invasive Species Committee

(OISC), 743 Ulukahiki Street, Kailua, HI 96734, 808-266-7994, Fax 808-266-7995, email: oisc@hawaii.edu, regarding training.

7.21 Noise and Vibration Controls

7.21.1 Compliance with Law and the Mitigation Monitoring Program

(a) The Contractor shall comply with the provisions of the Hawaii Administrative Rules for the State Department of Health, Chapter 46 (HAR Chapter 11-46), Community Noise Control for Oahu and the requirements of a noise permit, noise variance, or both, as applicable to the Project. When a noise permit is required, the Contractor shall obtain the community noise permit or noise variance.

(b) The Contractor shall include in its Environmental Compliance Plan (ECP) a contract-specific construction mitigation plan for noise and vibration pursuant to the latest version of the H RTP Mitigation Monitoring Program.

(c) Contractor shall be responsible for any required noise monitoring.

7.22 Environmental Compliance

7.22.1 General

(a) The Contractor shall prepare the design and conduct construction activities such that no action or inaction on the part of the Contractor shall result in non-compliance with the requirements of laws applicable to the Project. The Contractor shall follow all of the HHCTCP FEIS and ROD mitigation requirements applicable to the DB Project.

(b) The Contractor shall review HART's Mitigation Monitoring Program (MMP) (see Attachment E to the GCDB), prepare an Environmental Compliance Plan for design and construction in accordance with the MMP, and monitor the Project throughout construction to confirm adherence to regulations, approvals, permits, and environmental performance standards.

(c) If the Contractor design requires Work that is not in conformance with the environmental conditions and constraints specified by the permits in place between HART and regulatory authorities, the Contractor shall identify and conduct any additional studies and inventories needed to address environmental impacts.

(d) The BPS shall include the date of submission for the draft ECP. The ECP must be finalized and verified by HART's Project Team, prior to start of construction.

7.22.2 Environmental Compliance Plan (ECP)

(a) The Contractor's ECP, at minimum, shall include the following:

- (1) **Roles and Responsibilities:** Identify roles, responsibilities and authority, and communication protocol for environmental matters. Include an organization chart for flow of communication to include names of on-site staff and HART members involved.
 - (A) **Procedures for environmental emergency response:**
 - (i) Names of contacts on Project team and regulatory authorities;
 - (ii) Office, 24-hour, and mobile telephone numbers, e-mail address, and work address; and
 - (iii) Actions to be taken during an environmental emergency situation.
- (2) **Pre-Construction Assessment:** The Contractor shall review relevant existing background reports and studies for each Work location for environmental conditions and constraints, including but not limited to, historical, archaeological, cultural, and sensitive natural features. The ECP shall include HART provided environmental constraint maps showing the location and extent of wetlands, waterways, floodplains, and habitats; historical, archaeological, and cultural resources; ordinary high water mark; and other sensitive environmental resources.
- (3) **Permits:**
 - (A) Identify all necessary environmental permits and approvals, including:
 - (i) List of all environmental permits and approvals obtained or to be obtained (including those obtained by HART), identifying the issuing regulatory authority contact information and anticipated schedule; and
 - (ii) Date and duration of approval, and any conditions stipulated, in each environmental permit or approval.

- (B) Include a provision to transmit all Contractor-obtained permits to HART via CMS; and
 - (C) Identify key restrictions or limitations (e.g., limit of wetland fill, mitigation requirements).
- (4) Resource Protection and Procedures:
- (A) Provide a Plan within sixty (60) days of the NTP that sets forth the procedures for protection of resources and describe the process for unanticipated impacts or finds, including archaeological resources or human remains. The Plan shall include procedures for the following:
 - (i) Water quality and sediment/erosion control;
 - (ii) Air quality and dust control;
 - (iii) Noise and vibration control;
 - (iv) Archaeological resources;
 - (v) Historic properties;
 - (vi) Contaminated Material and construction waste management;
 - (vii) Water resources (including wetlands);
 - (viii) Wildlife and fish protection; and
 - (ix) Invasive species and noxious weeds.
- (5) Environmental Compliance Monitoring Program:
- (A) The following items from the Environmental Compliance Monitoring Program described in GCDB Section 7.22.3 will be included in the ECP:
 - (i) All applicable mitigation measures from the MMP;
 - (ii) Procedures for reporting and record-keeping;
 - (iii) Identify frequency of monitoring per GCDB Section 7.22.3(c); and
 - (iv) Meeting frequency and description per GCDB Section 7.22.3 (g).

7.22.3 Environmental Compliance Monitoring Program

(a) The Contractor shall monitor the Project throughout the design and construction phases to confirm adherence to regulations, approvals, permits, and environmental performance standards.

(b) The Contractor shall implement an environmental compliance monitoring program, which will include the following:

- (1) All applicable mitigation measures from the MMP;
- (2) Environmental training program (Employee Awareness Training), including description of any special training needs;
- (3) Identify personnel responsible for monitoring;
- (4) Procedures for reporting and record-keeping;

- (5) Procedures for reporting and handling noncompliance, including names of regulatory authority contacts to be notified, the means by which notification is to be accomplished, and the timeframe for notification;
- (6) Identify key personnel responsible for implementing corrective or preventive action; and
- (7) Follow-up procedures and documentation of implementation of corrective action.

(c) The Contractor shall determine the frequency of monitoring depending upon the level of construction activity, proximity of activity to sensitive resources, and the environmental issues associated with the Work location. Monitoring shall occur at a frequency that will ensure there is ongoing compliance with the Contract requirements and ECP.

(d) Incidents of non-compliance noted by the Contractor's field staff or HART shall be field-reviewed by the Project/Construction Manager.

(e) During construction, the Contractor shall maintain an environmental logbook and a photographic record of the Project. The environmental logbook shall be maintained at the Contractor's construction office at the project site and shall contain copies of:

- (1) Monitoring reports;
- (2) Photographs; and
- (3) Applicable environmental permits, programmatic agreements, clearances, and authorizations.

(f) **Construction Monitoring Report:** As part of the Environmental Compliance Monitoring Program, the Contractor shall submit to HART via CMS a bi-weekly Environmental Construction Monitoring Report. This report shall contain the following elements:

- (1) Project name and location;
- (2) Date of site visit;
- (3) Names and responsibilities of persons present during monitoring;
- (4) Summary of general site conditions (describe general environmental condition and character of project site);
- (5) Summary of current construction activities (e.g., describe location of work, type of work, equipment on site);
- (6) Summary of permit condition compliance;
- (7) Problem areas and deficiencies (e.g., active soil erosion, unauthorized filling of wetlands/streams, improper stockpiling of construction materials);
- (8) Corrective actions taken to resolve problems or deficiencies, including summarized discussions and decisions to resolve issues;
- (9) Description of active restoration or mitigation operations that are occurring (if applicable); and
- (10) Photo documentation of sensitive site conditions within the Project area.

(g) **Environmental Task Force Meetings and Reporting:** The Contractor shall be responsible for holding a bi-weekly meeting with HART to discuss construction schedule, sensitive

environmental resources, and environmental issues. The Contractor shall prepare and distribute meeting minutes within seven (7) calendar days of the meeting.

7.22.4 Environmental Incident Report

(a) If there are any unanticipated impacts or events during construction, the Contractor shall submit an Environmental Incident Report to HART within twenty-four (24) hours. This is in addition to the notification processes outlined in the resource-specific section of the ECP.

- (1) The Environmental Incident Report shall include the following:
 - (A) Project name and locations;
 - (B) Date and time of incident;
 - (C) Details of incident --who, what, where, how, including names of people contacted and how the incident was handled; and
 - (D) Further action to be taken by the Contractor.

7.22.5 Noncompliance

(a) The Contractor is responsible for any and all non-compliance of mitigation measures or permit conditions. In the event of noncompliance of mitigation measures or permit conditions, the Contractor shall immediately bring the deficiency to the attention of the Project/Construction Manager and HART. The Contractor shall propose corrective measures and establish the earliest feasible time frame for implementation of the corrective measures. Implementation of the corrective measures shall be documented during subsequent inspections. Monitoring reports shall be completed within fourteen (14) days of each monitoring inspection.

7.22.6 Environmental Post-Construction Monitoring and Reporting

(a) At the end of construction, the Contractor shall ensure that disturbed areas are restored to their preconstruction contours and revegetated as soon as possible following Project completion. The Contractor shall also ensure that no noxious weeds are introduced during the revegetation process.

(b) The Contractor shall perform inspections required during the de-mobilization and final trimming and clean-up phases at each work location. Inspections shall also address the successes, failures, and remedial actions for site restoration and compensatory mitigation sites.

(c) The Contractor is responsible to conduct final monitoring inspections to assess compliance with permit requirements.

7.22.7 Explosives; Hazardous Substance; Protection of Land Resources; Fish and Wildlife

(a) **Explosives, Hazardous Substance.** When use or storage of explosives or Hazardous Substance or equipment or unusual methods are necessary to perform work, the Contractor shall, prior to such usage, notify HART in writing of the nature of the explosive, Hazardous Substance or equipment, its intended use, its intended duration of use on the premises and method of maintenance on the premises. The Contractor shall exercise utmost care in maintaining and using the explosive or Hazardous Substance and carry on such activities under supervision of properly qualified personnel.

(b) **Protection of Land Resources.** Land resources within the project area and areas adjacent to and/or impacted by work performed under the contract shall be preserved in their present condition or be restored to a natural condition that will not detract from the appearance of the surrounding area. Except in areas marked on the drawings to be cleared, the Contractor shall maintain and water trees in the construction area. Except in areas marked on the drawings to be cleared, the Contractor shall not deface, injure or destroy trees or shrubs nor remove or cut them without approval. Any tree or other landscape

features scarred or damaged by the Contractor's equipment or operations shall be restored as nearly as possible to its original condition at the Contractor's expense.

(c) **Protection of Fish and Wildlife.** The Contractor shall at all times perform all work in such a manner as to prevent any interference or disturbance to fish and wildlife as required by law.

7.22.8 Damages and Loss

The Contractor is responsible for any and all compliance of mitigation measures or permit conditions. If the Contractor fails or refuses compliance with these requirements, HART may issue an order stopping all or part of the Work until satisfactory corrective action has been taken. No extension of time or payment for excess costs or damages shall be made for the time lost due to such stop action; the Contractor shall be liable for any costs incurred or damages accrued by HART as a result of this stop action. The cost of the Contractor fails or refuses compliance with these requirements, HART may issue an order stopping all or part of the Work until satisfactory corrective action has been taken. No extension of time or payment environmental pollution control shall not be paid for directly, but shall be considered incidental and included in the proposal prices for the various items of work.

7.22.9 Asbestos Prohibition

No asbestos-containing materials or equipment shall be used for this Project. The Contractor shall ensure that all materials and equipment incorporated in the Project are asbestos-free and shall submit a written certification confirming this.

7.23 Sustainable Practices

7.23.1 General

(a) The Contractor shall submit a Sustainability Action Plan (SAP), within 60 days of the NTP which shall include sustainable strategies for the Project with the goal of achieving sustainable principles of resource conservation, energy efficiency, and reduction of environmental impacts. The SAP should also include a Construction Waste Management Plan (CWMP) that includes a method of verification and means to track on a monthly basis the demolition waste reduction by volume or weight, construction waste disposal and diversion (salvaged and recycled) by volume and weight, post-consumer and post-industrial recycled materials, salvaged and reused materials, bio-based products, certified wood percentage, volatile organic compound (VOC) content and volume, office waste management, and other sustainable content to comply with the latest version of the LEED Reference Guide for Green Building Design and Construction.

(b) The Contractor shall prepare and implement procedures outlined in the CWMP and actions to reduce and recycle waste, salvaging, and reuse of materials during construction as contained in the SAP.

(c) The Contractor shall submit Sustainability Progress Reports to the HART sustainability manager on a quarterly basis. The reports should include an analysis of the data collected including metrics summarizing the progress toward achievement of sustainability goals.

(d) After the award of the Contract and prior to commencement of Work, the Contractor shall schedule and conduct a meeting with HART's sustainability manager to discuss the Construction Waste Management Plan. Sustainable practices specific to each trade shall be reviewed.

7.24 Public Awareness and Community Relations

7.24.1 Submittals

(a) **Submittals by the Contractor under this Section include:**

- (1) Contractor's Public Awareness and Community Relations (PA/CR) Plan (including Business and Residential Impact Mitigation Plan);
- (2) Monthly reports of activities undertaken to implement the PA/CR Plan;
- (3) Weekly reports, including traffic updates and construction activities for HART public information and hotline staff;
- (4) Weekly report of public contacts and responses provided;
- (5) Changes to access along with up-to-date access maps;
- (6) Sample of project identification sign;
- (7) Public notices for scheduled disruptions;
- (8) Public notices for unscheduled disruptions; and
- (9) Monthly public notices with project updates regarding disruptions to be posted on the project website, print outlets, and media outlets.

7.24.2 General

The Contractor shall maintain good communications and community involvement while minimizing impacts to businesses, residents, and traffic, which are critical to the successful development of the Honolulu Rail Transit Project (HRTTP).

7.24.3 Public Awareness and Community Relations Program

(a) HART has developed a system-wide set of goals and objectives covering construction-related activities, including community relations (with specific outreach to impacted businesses), construction and traffic mitigation, public information, and responsiveness to public concerns. Based on HART's goals and objectives, the Contractor shall develop a Project-specific PA/CR Plan to be approved by HART for all construction-related activities. The Plan shall be designed to ensure effective community relations and successful mitigation of construction impacts businesses and residents near construction work sites. Those efforts shall include, at a minimum, an ongoing public information program, public meetings, door-to-door canvassing, construction advisories, newsletters, and/or e-blasts, and public notifications related to construction work and impacts using print, radio, and online ads. If requested by the Contractor, HART will provide a template and/or sample PA/CR Plan for use by the Contractor in developing its PA/CR Plan and Business and Residential Impact Mitigation Plan. The Contractor, under HART's direction, shall also provide other City departments and HDOT with construction advisories and current construction-related traffic information.

(b) **The PA/CR Plan shall include:**

- (1) An implementation plan to build a positive image for the HRTTP;
- (2) Regular reports on the Contractor's progress;
- (3) Acceptable mechanisms for community outreach, public input and responding to construction concerns;
- (4) Mitigation programs for construction impacts for area residents, business owners, and commuters in the vicinity of the Project; and

- (5) Placing a high priority on being responsive to the concerns of the public, neighborhoods, and business owners throughout the life of the Project. Concerns and contacts should be properly documented electronically for future reference and to provide ongoing reports and research and refining outreach and communications plans.
- (c) **HART's Role:**
- (1) HART maintains oversight for public involvement and information for the HRTP in its entirety, from East Kapolei to Ala Moana and, specifically for this Contract, will monitor the Contractor's performance for compliance with the approved PA/CR Program plan. As part of its oversight, HART will:
 - (A) Provide leadership in establishing the messaging for HRTP project communications policy and strategic direction;
 - (B) Provide the Contractor with communications goals and objectives;
 - (C) Ensure that the Contractor's communications programs and products are consistent system-wide and in line with HART's overall public information and outreach efforts; and
 - (D) Conduct HART-sponsored public relations activities targeted to the general public.
- (d) **The Contractor's Role:**
- (1) The Contractor has the responsibility for the PA/CR effort to prepare affected neighborhoods for construction and to minimize the actual impact of construction.
 - (2) The Contractor shall perform the Project-specific PA/CR activities, manage the day-to-day PA/CR program and mitigate the impact of construction for businesses and residents in the Project area.
 - (3) The Contractor shall support HART's general public information and outreach efforts in the Project-specific areas, including providing timely reports, public information and additional personnel to assist in distribution of materials, public canvassing, and participation in HART sponsored activities to ensure a successful program.
 - (4) The Contractor's communications program and products shall be consistent system-wide and in accordance with the communications goals and objectives provided to the Contractor by HART.

7.24.4 Contractor's Responsibilities

(a) **Contractor's PA/CR Plan:** Within thirty (30) days of the NTP, the Contractor shall complete and submit to HART for review, comment and approval a PA/CR Plan, which will include the Business and Residential Impact Mitigation Plan as defined below as a subset of the PA/CR Plan. The PA/CR Plan shall be consistent with HART's communication goals and objectives and shall target PA/CR activities to those most affected by Project construction. The Contractor's PA/CR Plan shall include, at a minimum, the items described in the Contract Documents. The Contractor shall:

- (1) Use the official Honolulu Rail Transit Project (HRTP) logo on all communications products with HART's approval. The Contractor may also identify itself and use its logo, where appropriate. HART must approve all deliverables before final production;

- (2) Update the PA/CR Plan at least semi-annually, soliciting input from the businesses and residents along the corridor and the stakeholders representatives and using the results of market research described later in this Section. Submit a copy of each update to HART for review, comment and approval;
 - (3) Provide monthly reports of activities undertaken and notifications provided in the implementation of the PA/CR Plan in the previous month and anticipated in the coming month. Submit the monthly report in a format acceptable to HART on or before the 10th day of the month for activities undertaken during the previous month;
 - (4) Assess the effectiveness of the PA/CR Plan: Working in conjunction with HART's public involvement team, use market research techniques semi-annually to provide information to HART. Information will be used to determine if any course corrections are needed in the delivery of information and interaction activities with Project area residents, businesses, and commuters; and
 - (5) Coordinate all PA/CR issues directly with HART that arise within and adjacent to the Project's geographical limits during the time the Contract is in force. This includes PA/CR issues that may be attributed to other concurrent H RTP contracts.
- (b) **Staff Requirements:**
- (1) Provide, at a minimum, a full-time Public Involvement Manager (PIM) responsible for managing the Contractor's PA/CR Plan. The PIM is a key person on the Project list of Key Personnel. Other Contractor staff must be provided to accomplish Project specific tasks and to support HART's general public information and outreach efforts. (2) The PIM shall have and provide "real-time" access to all Project details that may be relevant to the public, public agencies, emergency service providers, businesses, and residents. The PIM shall have readily available and provide current and accurate information to HART when requested by HART.
 - (2) The Contractor's PIM is the primary interface between the public and the Contractor's organization.
- (c) **Public Interaction:**
- The Contractor shall maintain day-to-day contact with the affected Project area residents, businesses, and commuters and provide information to all parties impacted by the Project on how to deal with any Project-related disruptions, impacts or issues. If a resident, business, commuter, or other member of the public has a question or comment related to construction or preparation for construction, the first and preferred point-of-contact should be the Contractor.
- (d) **Public Notifications:**
- (1) Notify the public and community in general and specifically, affected businesses and residents along the Project area through personal contact of construction progress and upcoming events. Provide information to mitigate impacts that have immediate and long-term results.

- (2) Provide the specific notifications specified in Table 1 below.

Table 1: Table of Notifications

Notice	Requirement
30-day heavy construction notification	Provide written notification of heavy construction thirty (30) days prior to construction. Provide access maps per the Maintenance of Traffic Plan (MOT).
Utility outages	Provide written notice of at least seven (7) days in advance of, but not more than fourteen (14) days before, utility shut-off and diversions.
Weekly construction updates	Provide a construction update to each business or resident fronting a construction zone. The update shall be a personal visit from the Contractor's PA/CR Team.
Emergency unforeseen utility disruptions, hazardous conditions, traffic signal emergencies, security and loss of access	See GCDB Section 7.24.4(k) below.
Road and driveway closures or changes	Provide written notice and personal contact at least seven (7) days in advance.
Removal of surface encroachment, such as privately owned plants and shrubbery, from the City's right-of-way	Provide notice to affected owners at least two (2) weeks in advance of the commencement of the removal. Provide construction start date and the location of plants or other encroachments to be removed for each owner.

- (3) Utility shut-off/diversion announcements shall be made in the form of personal contact by the PIM or designated member of the Contractor's PA/CR staff. The Contractor shall include written notices to the affected parties.

(e) **24-Hour Public Information Hotline:** HART has established a 24-hour public information hotline for the Project. The Contractor will assist by ensuring that a Contractor representative shall be available at all times to respond to inquiries and reports generated via the hotline and reported by HART. The Contractor shall develop reports on an updated and regular basis for the hotline staff, accepted by HART, containing the necessary guidance needed to address any number of issues called into the hotline, including basic Project information, procedures for handling situations, a prioritized call-tree, the types of notification to use in specific incidences, emergency phone procedures, and any other applicable information. The information provided must always be current.

(f) Submit a weekly written report to HART, identifying the nature of public contacts and Contractor responses for the preceding week. The Contractor's PIM must be available at the request of HART to discuss the report.

(g) **Database:** The Contractor shall log all contacts including canvassing, email, phone calls and other communications it has made with the public. All contact information shall be inputted into a searchable database within three (3) days of contact by the Contractor. HART may provide a spreadsheet template for the Contractor's database to maintain consistency across the HRTP. Entries shall include the following:

- (1) Contact name, business name, address, phone number;
- (2) When the contact was made;
- (3) Who accepted/responded to the contact;
- (4) How the contact was made (in person, phone, e-mail, facsimile);
- (5) A brief description of the nature of the contact;
- (6) A brief description of handouts; and
- (7) A brief description of how any issues or concerns were resolved.

(h) **Complaint/Comment Forms:** Provide complaint/comment forms to businesses and residents along the Project as a method for the public to express Project concerns. These forms shall provide all information needed for entry into the database. The forms shall indicate the business address, website address, and fax number where the forms can be sent and the forms shall include the 24-hour public information hotline number.

(1) Responses to the Hotline Calls and Complaint/Comment Forms shall:

- (A) Respond to complaints within twenty-four (24) hours.
- (B) Evaluate emergency calls relating to hazardous conditions, diminished security, or loss of access or utility services on a case-by-case basis. Verification calls shall be provided on all calls to inform the callers that their calls have been addressed.

(i) **Emergency, Unforeseen Utility Disruptions, Hazardous Conditions, Traffic Signal Emergencies, Security, and Loss-of-Access Notifications:**

- (1) Initiate immediate response to emergencies by trained personnel from an incident response team within thirty (30) minutes of receiving notification from HART, a utility owner, or affected business(es) or resident(s).
- (2) Explain all emergency or unforeseen disruptions to the public immediately by personal contact from the PIM or a designated member of the Contractor's public information staff. The person making the contact shall provide to the affected party(ies) information such as:
 - (A) Cause of disruption (i.e., whether it is construction-oriented or not);
 - (B) Actions being taken to alleviate the problem; and
 - (C) Anticipated duration of the disruption.

(j) **Construction Schedule/Maintenance of Traffic and Access:**

Notify businesses and residents along the Project and publicize commencement of construction in accordance with Table 1 herein. The notices shall provide, at a minimum, information addressing public safety, business impact mitigation, and proposed alternative routes and detours. This notification shall indicate the projected dates for the construction by individual notices to stakeholders, community groups, businesses, and residents along the corridor as well as along alternative routes. Provide all relevant information concerning the construction schedule to HART which will then publicize such information to appropriate media outlets.

7.24.5 Business and Residential Impact Mitigation

(a) **Business and Residential Impact Mitigation Plan:** Complete, update, and submit a Business and Residential Impact Mitigation Plan, which includes but not limited to:

- (1) **Door Hangers:** The Contractor may use door hangers to inform particular property owners/residents about day-to-day construction progress and disruption.
- (2) **Access Maps:** Develop access plans with businesses and residents on each block and provide maps showing existing and planned patron, delivery and residential access during any construction period. The map(s) shall identify times of business operation and deliveries. The Contractor may show the utilization of alleys or adjacent driveways upon receiving written permission from HART or owner having jurisdiction over such driveways or alleys. Individual business and residential access shall be recorded in the database. The Contractor shall make the access maps available at least seven (7) days prior to construction where a business or residence is impacted.
- (3) **Changes to Access:** Inform businesses and residents in writing and by personal contact of any changes to access that may impact them as required in the Table of Notification. Changes in access, along with access maps, shall be submitted to HART for review and comment at least three (3) weeks prior to start of construction.
- (4) **Work within Private Property:** Notify each property owner affected by such work with the approximate start date and total duration of work within their property. Notification shall be made in writing, via a notification flier, in accordance with the timeframes listed in the Table of Notification. Submit draft to HART for review and comment at least three (3) weeks prior to start of construction.
- (5) **Garbage and Recycling Removal:** Provide adequate access for all garbage and recycling removal. Negotiate with public and private garbage and recycling removal services and provide them access at agreed times.
- (6) **Construction Mitigation Signage:** On blocks that are undergoing construction, maintain "open for business" signage at intersections on both sides of the street that includes the names of the businesses impacted by construction where access is limited or disrupted. This signage shall be approved by HART and maintained throughout the duration of construction in any area affected.
- (7) **Public Notification:** Provide and pay for public service announcements to promote safety and construction awareness including, but not limited to, radio and newspaper notices.

7.24.6 Community Updates/Neighborhood Boards

(a) Besides the daily contacts made, conduct community updates to give the public the opportunity to discuss the Project. All neighborhood meetings shall be advertised in neighborhood and community newsletters. At a minimum, community updates shall be hosted once per month starting one month prior to construction. The Contractor is responsible for selecting an appropriate, easily accessible venue and for convening the meetings at a convenient time for maximum attendance. The information displayed or discussed shall include schedule, staging, maintenance of traffic and access, and any other Project information. The stakeholders will be provided the opportunity to participate in all community updates, which are to be advertised in accordance with the Table of Notification.

(b) Accompany HART representatives to neighborhood board meetings in the affected areas to serve as a resource when HART representatives present Project updates.

7.24.7 Construction Tours

When HART schedules construction tours, the Contractor shall observe required safety program guidelines, such as the wearing of protective equipment and waiver of liabilities. The Contractor shall participate in tours as requested to provide construction information.

7.24.8 Incident Notification

Establish and manage an emergency response telephone tree. All appropriate stakeholder personnel shall be included on this telephone tree for immediate response in the event of an emergency. Divide the telephone tree into areas of expertise so that the proper people are called for specific emergency situations.

7.24.9 Media Relations

(a) An ongoing media relations program will be implemented and managed by HART. The Contractor shall not meet with the media without HART's authorization and shall direct all questions from the media to HART. The Contractor shall provide timely information to HART regarding construction activities for use in media events.

(b) The Contractor shall develop press releases for HART as needed to keep the public informed of the Project. All press releases shall receive prior approval from HART before distribution to media outlets. The Contractor shall work with HART to develop a process to ensure that official stakeholders and elected officials will receive press releases before or at the same time as the media.

(c) Radio and television traffic reporters shall receive appropriate and timely updates on construction activity and traffic management information. Public service announcements shall be developed as part of the Contractor's traffic management information.

(d) Neither the Contractor nor any of its subcontractors nor their employees shall conduct or participate in media interviews or events, radio or television broadcasts relating to the Project, without the consent and approval of HART, except in emergencies. In emergency situations, immediately notify HART of any situation that may involve the media.

7.24.10 Public Notices

(a) The Contractor shall prepare public notices and information for radio, television, and cable television and for the HART website and other media outlets to notify the public of inconveniences caused by the project works, including traffic and utility disruptions. The Contractor will submit public notices for scheduled disruptions to HART at least fourteen (14) days in advance of the event. Inconveniences caused by unpredictable events (e.g., damage to utility lines, extended street closures) shall be communicated to the public as expediently as possible. Costs associated with production and publication/airing of these updates will be borne by the Contractor as a part of this Contract.

(b) Submit to HART a regular project updates (monthly or as determined by HART) for posting on the HART website and for use in other print and broadcast media outlets as needed. The information should be designed to prepare Project area residents and business owners for construction and to mitigate the impact of construction. HART has final approval on the content of these updates. Any costs associated with production and publication/airing of these updates will be borne by the Contractor as a part of this Contract.

7.24.11 Special Events

The Contractor shall assist HART as needed with the planning and implementation of special events that recognize significant Project milestone achievements, such as groundbreaking.

7.25 Project Identification

7.25.1 General

The Contractor shall provide temporary project identification signs and general construction signs as specified herein. The Contractor will install signs throughout the project to be placed in prominent auto traffic zones where construction is occurring and at the Contractor's main office and at all field offices. The signs will identify the rail transit project and will comply with Federal Transit Administration (FTA) requirements. The signs will also identify the Contractors name, the project 24-hour public information hotline number and the participating agencies. A sample of the Project Identification Board shall be submitted to HART, and shall be subject to HART's review and comment. Signs and lettering shall be sized appropriate for the speed limit in the area using MUTCD size guidelines and be consistent with applicable City sign ordinance(s).

7.25.2 Project Identification Sign

The Contractor shall provide temporary project identification signs at locations specified in the Contract Documents or as designated by HART. The Contractor may place additional identical signs paid for by the Contractor; provided, however, they do not violate any anti-billboard/advertising laws, and it is acceptable to HART. The Contractor shall not place any other project identification signs on the right-of-way or within the limits of the Project.

7.25.3 Field Office Signs

(a) The Contractor shall provide field office identification signs as indicated or required. The Contractor shall provide field office identification signs for HART's field office and the Contractor's field office.

(b) The Design, Layout, and Size: Design, layout, style of lettering, and colors shall be as follows:

- (1) General construction signs shall be constructed from a sheet of plywood 4 feet by 8 feet (4' x 8') or 3 feet by 6 feet (3' x 6') in size, as appropriate for the location, mounted on two posts set in the ground;
- (2) Field office identification signs shall be constructed from a sheet of plywood 3 feet by 6 feet (3' x 6') in size, for wall or post mounting, as appropriate for the location; and
- (3) General Construction and field office identification signs shall be located as designated in the Contract Documents or as designated by HART.

7.25.4 Signs and Installation

(a) Construction and installation of the signs shall follow the following specifications:

- (1) Materials: Construct sign faces with 3/4-inch thick, 5-ply, exterior grade, A-B faced, Douglas-fir plywood, APA-grade-stamped. The frame shall be nominal 2"-by- 2" or 2"-by-4" stock, either construction-grade Douglas fir or A-grade redwood. Posts shall be 4"-by-6" construction-grade Douglas fir, pressure-preservative-treated, 8 to 12 feet long as required for the location;
- (2) Construction: Set plywood signs into the frames. Miter and screw together frame corners. Screw sign to two 2"-by-6" Douglas-fir cleats and bolt to posts with at least two 1/4-inch bolts per post;

- (3) Installation: Install sign posts in the ground a minimum of 3 feet deep to ensure stability, with the top of the sign horizontal, level, and even with the top of the posts, 7 feet minimum above the ground;
- (4) Painting: Paint signs with one coat of primer sealer and two base coats of exterior semi-gloss enamel. Paint letters and logos in black on a white background. Use Helvetica font style for letters, unless otherwise indicated by HART; and
- (5) Maintenance: Keep signs clean and in good repair until completion of the Contract.

7.25.5 Closeout

Upon completion of the Work, the Contractor shall remove and dispose the signs off the Project site or leave the signs in place if requested by HART.

7.26 Product Requirements

7.26.1 Product Quality

(a) Materials, equipment, appliances, fixtures, and fabricated assemblies to be incorporated in the Work shall be new, except as may be indicated in the Contract Documents.

(b) Furnished/Installed Products

- (1) Furnished products shall be incorporated in the Work as complete assemblies or systems with all appurtenances and installation of anchors, fasteners, and accessories as required providing a complete and finished product installation.
- (2) Installed products with moving parts shall be fully operable at proper settings and levels according to manufacturers' instructions and recommendations.

(3) Transportation and Delivery

- (A) The Contractor shall arrange deliveries of materials and equipment according to the BPS and coordinate to avoid conflict with Work and conditions at the Project site.
- (B) Materials shall be delivered in undamaged condition, in manufacturers' original containers or packaging (where applicable), with identifying labels intact and legible. Packaged materials shall be in their original unbroken packages or containers.
- (C) Cement, prepared dry mortar mixes, grouting material, plaster, and coloring material shall be delivered in original, unopened and sealed containers, bearing the brand and manufacturer's name.

(c) Storage and Protection

- (1) Receiving, storage, quality, and inventory control of equipment and materials required for Contract Work is the responsibility of the Contractor. The Contractor shall store materials in such a manner as to ensure preservation of their quality and fitness for the Work and protect materials and equipment from damage and corrosion during storage. Storage shall be arranged to provide easy access for inspection and identification of each shipment. On each container of parts, there shall be affixed an itemized list and description of contents.
- (2) The Contractor shall perform periodic inspections of stored materials to ensure that materials are maintained under specified conditions and are free from damage or deterioration.

(d) Material Safety Data Sheets (MSDS)

- (1) The Contractor shall furnish Material Safety Data Sheets (MSDS) for all materials to be incorporated in the Work.
 - (A) The Contractor shall provide a file drawer or drawers in the Contractor's field office or other acceptable location for filing of all MSDSs. MSDSs shall be filed according to the Construction Specifications Section numbers and readily available for review by HART, jurisdictional inspection authorities, and all personnel engaged in the Work.
- (2) The Contractor shall post MSDSs for material that is flammable or otherwise hazardous on a bulletin board for this specific purpose. The bulletin board shall be

located at the Project site, sheltered from rain and wind, and readily accessible to all personnel engaged in the Work.

7.27 HART-Furnished Products

7.27.1 General

The Contractor shall be responsible for inspecting and accepting all HART-furnished products, including materials and equipment. Once HART-furnished products have been accepted by the Contractor, the products shall be the responsibility of the Contractor's.

7.27.2 Contractor's Responsibilities

(a) Upon the Contractor's inspection and acceptance of HART-furnished products, the Contractor shall assume custody and full responsibility of such products. The Contractor shall replace lost or damaged materials and equipment at no additional cost to HART should loss or damage occur after Contractor has assumed custody. In such an event, any requested time extensions shall be an unexcused delay.

- (1) The Contractor shall inspect HART-furnished materials and equipment at time of pick up by the Contractor at the storage site or, in the event of delivery of such materials and equipment, at the time of delivery by the respective suppliers to the delivery sites. The Contractor shall submit certification to HART showing the quantity of accepted materials and equipment. The Contractor shall set aside all damaged materials and equipment and immediately notify HART and the delivery carrier in writing of the damage and circumstance of discovery.
- (2) Should there be any discrepancies between the packing list and delivered materials the Contractor shall notify HART immediately.
- (3) The Contractor shall provide an overall schedule of its requirements of HART-furnished products for its Work under the Contract. Any updates to the schedule must be made on a regular basis:
 - (A) The schedule must show the installation sequence of the HART-furnished products and the date on which the Contractor will pick up the products at the designated storage site or, in cases where HART has indicated the materials and equipment will be delivered, then the required dates of such deliveries, and approximate date of construction placement.
 - (B) Excess Materials: Upon Substantial Completion of the Work, the Contractor shall transport, unload, and stockpile all excess HART-furnished materials and equipment to a delivery location on Oahu, as determined by HART.
 - (C) Installation: The Contractor shall install HART-furnished materials and equipment accurately and, if applicable, pursuant to manufacturer's instructions.

7.28 Mobilization

7.28.1 General

Upon NTP or other written instructions from HART, the Contractor shall proceed with preparation work and operations, including but not limited to those necessary for the movement of personnel, equipment, supplies and incidentals to the Project site; for the acquisition of all Work materials; for the establishment of all offices, buildings, and other facilities, excluding field office and Project site laboratories, necessary for the Work on the Project; and for all other Work and operations which must be performed, or costs incurred, prior to beginning Work on the various items on the Project site.

7.28.2 Maximum Allowed Amount for Mobilization

(a) The maximum amount the Contractor is allowed to offer for mobilization is six percent (6%) of the total sum of all items within the group of items in which the mobilization item is included, excluding the price of the mobilization item. If the proposal submitted by the offeror indicates an amount in excess of the allowable maximum, the amount submitted by the offeror shall be reduced to the allowable maximum, and the total sum offer shall be adjusted to reflect any such reduction.

(b) **Payment:** Partial payments will be made as follows:

- (1) When five percent (5%) of the total sum offer is earned, fifty percent (50%) of the amount proposed for mobilization will be paid;
- (2) When ten percent (10%) of the total sum offer is earned, seventy-five percent (75%) of the amount proposed for mobilization will be paid; and
- (3) When twenty percent (20%) of the total sum offer is earned, one hundred percent (100%) of the amount proposed for mobilization will be paid.

7.28.3 Demobilization

The cost of demobilization shall be considered incidental to the mobilization and no further allowances will be made for such costs.

7.29 Field Engineering

7.29.1 General

This Section includes the requirements for field engineering, including:

- (a) Qualified Services;
- (b) Lines and Grades;
- (c) Survey for Layout and Performance;
- (d) Surveying Accuracy and Tolerances in Setting Survey Stakes; and
- (e) Drilled Shaft Survey.

7.29.2 Submittals

(a) The Contractor shall complete survey notes, drawings, and calculations as the Work progresses and submit one copy of each survey document to HART for record purposes.

(b) The Contractor shall submit maps showing all final centerline, station, and other Contractor-installed monuments, properly prepared and submitted to HART for its records.

7.29.3 Qualified Services

The Contractor shall perform surveying services and field engineering services under direct supervision of a professional land surveyor or civil engineer currently licensed in the State of Hawai'i. A civil engineer providing field surveying shall have a current professional land surveyors license in the State of Hawai'i. The Contractor shall furnish a certificate that the completed lines, levels, and elevations are in conformity with the Contract.

7.29.4 Lines and Grades

(a) Primary control lines, monuments, and bench marks shall be set for completion of Work. In general, these will consist of the primary horizontal and vertical control points indicated in the Contract Documents. The Contractor shall establish work points for major structures, track alignments, and roadway alignments. The Contractor shall set survey monuments at each end of station platforms to establish platform finish elevations.

(b) The Contractor shall preserve primary control monuments set by HART. HART will replace or restore, at its earliest convenience, monuments that are destroyed or damaged.

(c) The Contractor shall temporarily suspend work and for such reasonable times as HART may require for resetting monuments destroyed or damaged by the Contractor's operations. The Contractor will not be entitled to additional compensation or extension of time from such activity by HART. The Contractor shall be responsible for all other stakes or markers required to establish the lines and grades for the Work.

7.29.5 Surveys for Layout and Performance

(a) **Surveying Requirements:** The Contractor shall perform all surveys for layout and performance of the Work, reduce field notes, and make all calculations and drawings necessary to carry out such work. The Contractor shall check relative positions of all monuments and bench marks to be used and report any damage or out-of-position monuments to HART at once. The Contractor shall check such relative positions each time the Contractor uses such monument or benchmark.

(b) **Datum:** The Contractor shall verify all lines, levels, and elevations indicated in the Contract before any excavation or construction begins. Any discrepancy shall be immediately brought to the attention of HART and any change shall be made in accordance with this instruction. The Contractor shall not be entitled to any additional payment if it fails to report the discrepancies before proceeding with

work within the area affected by the discrepancies. The Contractor shall correctly locate all lines and grades and perform all measuring as required for the construction and completion of Work from established reference points and information shown in the Contract Documents.

(c) **Equipment and Personnel:** The Contractor shall ensure that instruments and other survey equipment are accurate and suitable for surveys required in accordance with recognized professional standards.

(d) **Field Notes and Records:** The Contractor shall provide original pages of all survey records to HART at intervals required by HART. Each field notebook shall be furnished to HART when filled or completed.

(e) **Use by HART:** HART may at any time use line and grade points and markers established by the Contractor. The Contractor's surveys are a part of the Work and may be checked by HART at any time. The Contractor is responsible for any lines, grades, or measurements which do not comply with specified or proper tolerances, or which are defective, and for any resultant defects. The Contractor shall conduct resurveys or check surveys to correct errors indicated by review of the field notebooks or by survey checks by HART. HART is in no way obligated to conduct survey checks.

7.29.6 Surveying Accuracy and Tolerances in Setting Survey Stakes

(a) **Surveying Accuracy:** The Contractor shall control traverse field surveys and computations, including surveys of main control lines, to determine horizontal and vertical alignment of major structure components that meet accuracy requirements for Second Order, Class II, as defined by the Federal Geodetic Control Committee, and the accuracy requirements for Second Order, Class II Surveys as specified by the National Oceanic and Atmospheric Administration (NOAA), "Surveying Standards," for construction staking or equipment installation.

(b) **Tolerances:** The Contractor shall meet tolerances generally applicable in setting survey stakes as set forth herein, unless stricter tolerances are required by other Contract Documents. The stricter tolerance shall apply, independent of the order of precedence.

7.29.7 Drilled Shaft Survey

Regarding drilled shaft surveys, the Contractor shall:

- (1) Re-survey each control point daily to ensure that movement of a drilled shaft has not occurred which affects the vertical or horizontal position of each of the survey control points therein. Immediately verify apparent changes in location;
- (2) Adjust published horizontal and vertical coordinates of drilled shaft survey points as necessary and provide revised coordinates to HART as soon as possible after verification of the location information;
- (3) Establish convergence pins and other controls as necessary; and
- (4) The Contractor may submit a request to HART to reduce the frequency of re-survey to verify survey control points that are infrequently used and have not shown movement.

7.30 Cleaning

7.30.1 Cleaning and Cleanup During Construction

(a) The Contractor shall keep the Project site, including the Contractor's Work and storage areas, in a neat, clean, and orderly condition at all times during the course of this Contract. HART may, at any time during construction, order a general cleanup of the Project site as part of the Work, and there shall be no additional cost to HART. Contractor shall provide general daily clean-up and disposal service for removal of waste, rubbish, trash, and debris away from the Project site.

(b) The Contractor shall perform cleaning of all facilities and ancillary buildings as required during construction to prevent accumulations of dust, dirt, soil, trash, and debris, so that a clean and safe working environment shall be present at all times.

(c) The Contractor shall keep walkways or designated pathways for authorized visitors neat and free of pebbles and other obstacles to walking comfortably, equivalent to broom clean of paved surfaces.

(d) The Contractor shall provide daily litter pickup within 1/2 block of the Project site in all directions and provide trash receptacles for workers' lunches, cigarette butts, and other miscellaneous garbage.

7.30.2 Dust Control

(a) The Contractor shall clean interior spaces prior to the start of finish painting and the application of other finishes, and continues cleaning as required until such Work is completed.

(b) The Contractor shall schedule operations to prevent dust and other contaminants to prevent dust and contaminants from adhering to newly finished surfaces.

7.30.3 Disposal of Debris

(a) Waste, trash, and debris shall be disposed in a safe, acceptable manner, in accordance with applicable laws and ordinances and as prescribed by authorities having jurisdiction. Waste material and debris shall not be buried. Burning of trash and debris on the site shall not be permitted.

(b) **Salvage of Materials.** All materials such as signs, fencing, lava rock curb, traffic control lights, street lights, and guardrails belonging to public agencies shall be salvaged by the Contractor in substantially similar condition and returned to the appropriate agency as directed by HART or disposed of by the Contractor if directed by HART.

(c) All other salvage materials are assumed to be the property of the Contractor.

7.30.4 Final Site Cleanup

(a) Upon completion and prior to Final Acceptance, the Contractor shall thoroughly clean the entire Project site. The Project site shall be in a clean and neat, acceptable condition. The Contractor shall remove from the site all construction waste and unused materials, dunnage, loose rock and stones, excess earth, and debris of any description resulting from the Work.

(b) All pavement and paved walkways shall be hosed down and scrubbed clean.

(c) Mortar droppings from concrete slabs and pavement shall be thoroughly removed where they occur, and all concrete flatwork and exposed vertical surfaces of concrete and masonry shall be hosed down and scrubbed clean.

(d) All new and existing drainage systems shall be free and clear.

(e) All conduit openings shall be cleaned and protected.

7.30.5 Sustainable Cleaning Products

The Contractor shall utilize cleaning products that meet Green Seal GS 37 or comply with the maximum VOC limits of Title 17.

7.30.6 Restoration and Precautions

(a) The Contractor shall protect property adjacent to the site of the project from damage and shall immediately restore property damaged by the Contractor to the condition it was in prior to the damage. Unless otherwise advised in writing by HART, the requirements in this Section shall be considered incidental to the Contractor's performance of the Contract.

(b) **Buildings and other structures.** If the site of the Project passes close to or under buildings and other structures, the Contractor shall protect all such buildings and structures by suitable means from any and all damages.

(c) **Pavement, Curb and Gutter.** The Contractor shall replace, restore and repair pavements, gutters, and curbs damaged or removed by the Contractor.

(d) **Fences.** The Contractor shall replace fences removed by the Contractor. Livestock shall not be allowed to escape when fences enclosing them are removed and replaced.

(e) **Grass.** When lawns are disturbed by trenching, the area over the trench shall be carefully graded and replanted with similar grass spaced over the trench so that the area is substantially similar to the condition it was in prior to the excavation.

(f) **Trees and Shrubbery.** Trees and shrubbery which must be disturbed shall be transplanted under the direction of the owner or lessee of the property to some other site and, upon completion of the backfill, shall be replanted on the original site, to the satisfaction of the said owner or lessee.

(g) **Property Marks.** The Contractor shall reference and replace marks, stakes, pipes, monuments of the property line, and similar objects which may be disturbed by the Contractor while performing the Contract. Any such replacements shall be certified by a surveyor licensed by the State of Hawai'i.

(h) **Sidewalks, Patios, Driveways and Other like Concrete Construction.** When trenches are to be made across concrete sidewalks, patios, driveways, and other like concrete construction, the Contractor shall make neat cuts in the concrete with pavement saws, or other means acceptable to HART and shall thoroughly compact the backfill and reconstruct such construction with concrete similar to the existing construction.

(i) **Topsoil.** Where private land under cultivation is disturbed, the Contractor shall place the upper twelve inches of topsoil to one side, which shall not be mixed with the general excavated material. After backfill has been made to within twelve inches of the surface, the topsoil shall be replaced.

(j) **Excavated Material.** Unless other specified, all excavated material shall become the property of the Contractor and shall be hauled from the jobsite to an acceptable disposal site. Hauling of wet, dripping material over public streets is not permitted.

(k) **Walls, Rock, and Masonry.** The Contractor shall replace rock and masonry walls removed by the Contractor.

(l) After the construction, the Contractor shall restore the premises used for its operations to its original condition.

7.31 Construction Waste Management

The Contractor shall maximize the diversion of demolition and construction waste from landfill disposal by salvaging and recycling demolition and construction waste. This can include salvaging of non-hazardous demolition and construction waste, recycling non-hazardous demolition and construction waste, and disposing of non-hazardous demolition and construction waste. The Contractor shall reuse, salvage, or recycle as much of the waste materials as is economically feasible to minimize waste disposal in landfills or incinerators, thereby reducing disposal costs.

7.31.1 General

This Section includes administrative and procedural requirements for the salvaging of non-hazardous demolition and construction waste, recycling non-hazardous demolition and construction waste, and disposing of non-hazardous demolition and construction waste and includes:

- (a) Performance Requirements;
- (b) Waste Management Meetings;
- (c) Construction Waste Management Plan (CWMP); and
- (d) Construction Waste Management Resources

7.31.2 Submittals

(a) Within the Sustainability Action Plan (SAP,) the contractor shall submit a Construction Waste Management Plan (CWMP) that includes a method of verification and means to track demolition waste reduction by volume or weight, construction waste disposal and diversion (salvaged and recycled) by volume and weight, post-consumer and post-industrial recycled materials, salvaged and reused materials, bio-based products, certified wood percentage, volatile organic compound (VOC) content and volume, office waste management, and other sustainable content to comply with the latest version of the LEED Reference Guide for Green Building Design and Construction.

(b) The CWMP should include calculations for end-of-project recycling rates, salvaged rates, and landfill rates itemized by waste material. Waste reduction progress information should be included in monthly reports and include documentation of recovery rate (if commingled), waste hauling certificates of receipts, and a brief narrative explaining how and to where each waste type has been diverted. Monthly reports are to be brief and quantitative in nature.

(c) Separate sections in the CWMP shall be included for demolition and construction waste. Quantities by weight or volume shall be indicated, using the same units of measure throughout the CWMP. CWMP shall include:

- (1) Waste identification;
- (2) Landfill options;
- (3) Waste reduction work plan, including the following material wastes:
 - (A) Cardboard;
 - (B) Clean dimensional wood;
 - (C) Beverage and food containers;
 - (D) Paper;
 - (E) Concrete;
 - (F) Concrete masonry units (CMU's);

- (G) Asphalt;
 - (H) Ferrous and non-ferrous metals;
 - (I) Stretch and shrink wrap;
 - (J) Gypsum wallboard;
 - (K) Paint containers; and
 - (L) Soil.
- (4) Meetings; and
 - (5) Materials handling procedures and transportation.

7.31.3 Performance Requirements

HART has established that this Project will generate the least amount of waste possible.

The Contractor's goal for end-of-project rates for salvage/recycling is fifty percent (50%) by weight of construction and demolition waste.

7.31.4 Waste Management Meetings

Construction waste management requirements shall be discussed in the Environmental Task Force (ETF) meetings conducted during the course of the Project. At these meetings, methods and procedures related to construction waste management shall be reviewed.

7.32 Closeout Procedures

7.32.1 General

This Section includes requirements for closeout procedures to ensure that the Contract is officially closed out upon its scheduled completion and that all required deliverables and documentation are received by HART from the Contractor.

7.32.2 Partial Acceptance

(a) The Officer-in-Charge may accept and place parts of the Project in service as completed and the Contractor shall give proper access to such portions for this purpose. However, use by the public without permission of the Officer-in-Charge shall not in any way be construed as an acceptance of the Work under the Contract and shall not in any way relieve the Contractor from the Contractor's obligation under the Contract.

(b) **Occupancy Prior to Acceptance.** HART may occupy or use any completed or partially completed portion of the Work at any stage prior to acceptance when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the Contractor's insurer. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided that HART and the Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage if any, security, maintenance, air conditioning, utilities, damage to the Project and insurance, and have agreed in writing concerning the period for correction of work and commencement of the guarantee required by the Contract. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld.

(c) **Inspection.** Immediately prior to such partial occupancy or use, the Officer-in-Charge and the Contractor shall jointly inspect the area to be occupied or used in order to determine and record the condition of the area.

(d) **No Acceptance of Non-Complying Work.** Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Project shall not constitute acceptance of work not complying with the requirements of the Contract.

7.32.3 Prior to Substantial Completion

(a) Prior to notifying HART that the Contract is substantially complete, including compliance with maintenance of site and final cleanup requirements, the Contractor shall inspect the Project and test all equipment with all of its subcontractors. The Contractor shall proceed to obtain required documents, including, but not limited to:

- (1) All written guarantees, warranties, maintenance agreements, final certifications required under the Contract;
- (2) All As-Built Drawings and Specifications;
- (3) All Record Drawings and Specifications;
- (4) All other record documents;
- (5) All certified payroll affidavits if not submitted earlier;
- (6) Certificate of plumbing and electrical inspection;
- (7) Certificate of building occupancy;
- (8) Certificate of soil and wood treatments;
- (9) Certificate of water system chlorination;

- (10) Maintenance service contract; and
- (11) A list of all equipment installed, tools, spare parts, instructions, and all operating and maintenance manuals required to operate and maintain the Work.

(b) The Contractor shall perform the following prior to requesting final inspection to determine Substantial Completion:

- (1) Arrange to deliver tools, spare parts, extra materials, and similar items to a location designated by HART. Label with manufacturer's name and model number, where applicable;
- (2) Complete startup testing of facility systems;
- (3) Submit test, adjust and balance records;
- (4) Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements;
- (5) Advise HART of changeover of other utilities;
- (6) Ensure that all utilities are connected and in working order;
- (7) Ensure that all air conditioning and other major equipment are in acceptable working condition;
- (8) Ensure that the building, structure, improvement, or site can be used for its intended purpose;
- (9) Ensure that the completed Work conforms to the Contract Documents;
- (10) Repair, reconstruct, restore, and replace the Work or any part thereof which is injured, damaged or vandalized; and
- (11) Ensure that the Project site is clean.

(c) The Contractor shall request HART in writing that the Contract is complete and ready for inspection after finding that everything is in order.

7.32.4 Substantial Completion

(a) The Contractor shall provide written notification to HART that the Project is complete and ready for inspection. HART shall then make a determination as to whether or not the Project is ready for inspection. If HART is not satisfied, the Contractor will be notified in writing of the items that require completion prior to inspection. After the Contractor complies with HART's instructions, the Contractor will again submit, in writing, a request for inspection.

(b) The date of issuance certifying Substantial Completion by HART to the Contractor triggers certain Contract provisions, such as warranties, guarantees, and liabilities.

(c) A pre-final inspection will be conducted by HART upon written request for inspection. HART will inspect the Work with the Contractor. The Contractor's Superintendent, subcontractors and suppliers shall be in attendance to answer the questions of HART's inspection team. HART will examine the Work and all required deliverables and documentation will be reviewed.

(d) If the pre-final inspection discloses only minor discrepancies as determined by HART, HART will accept the Project as Substantially Complete and issue in writing, a list of the discrepancies that need to be corrected, including all documents required by the Contract, hereinafter referred to as the "punchlist," and the time in which the Contractor must complete the punchlist.

(e) The Contractor shall, within seven (7) days after receipt of the punchlist, proceed to complete the items on the punch-list. Upon completion, the Contractor shall submit a written request for a final inspection, after which, if HART finds that all discrepancies are satisfactorily corrected, HART will accept the Project as completed, hereinafter referred to as "Final Acceptance."

(f) If the Contractor fails to proceed or complete the punchlist within the specified time, the Officer-in-Charge may proceed to have such work performed at the Contractor's expense, and the Contractor's sureties will be liable therefore. HART shall be entitled to reasonable attorneys' fees, consultants' fees and costs necessarily incurred by the Contractor's refusal to complete the contract and to pay such costs of corrective work.

7.32.5 Final Acceptance

(a) The Contractor shall complete any specified training for HART personnel prior to Final Acceptance notification for the entire Contract.

(b) **If there are no outstanding items to be completed or corrected, the Contractor shall:**

- (1) Deliver tools, spare parts, instructions, and similar items required to operate and maintain the Work;
- (2) Make changeover of locks and all equipment and facilities and deliver keys and provide lock combinations to HART;
- (3) Upon Final Acceptance, the Contractor shall be relieved of its responsibility in maintaining and protecting the Work and Site and for injury to persons or property; and
- (4) Prior to release of final payment, the Contractor shall submit, within thirty (30) days after Final Acceptance, or within such time as the Officer-in-Charge may allow, all remaining documents required by the Contract, including special guarantees, operation and maintenance manuals, including, warranties, maintenance agreements, final certifications, and similar documents as required by the Contract.

7.32.6 Contractor's Demobilization

Upon satisfactory inspection of the Work by HART, HART will authorize the demobilization of the Contractor from the Project site and those areas along the right-of-way that have been occupied by the Contractor and the associated subcontractors. All temporary facilities and equipment, including but not limited to all materials, utility hookups, rubbish, and any other and all such items shall be removed, leaving the area neat and clean.

7.32.7 Contract Closeout Checklist

HART will complete the Contract Closeout Checklist (GCDB Section 7.32, Exhibit 1). If HART's review indicates that the Contractor has not met all requirements, HART will notify the Contractor of the deficiencies in writing.

7.32.8 Final Payment

Upon Final Acceptance of the Work by HART, HART will transmit a Release of and Certificate of Final Payment (GCDB Section 7.32, Exhibit 2) to the Contractor for execution. After receipt of the executed Release of Certificate of Final Payment from the Contractor, HART will pay the approved invoice for final payment.

Exhibits Attached

PROJECT CLOSEOUT CHECKLIST (SAMPLE/TEMPLATE)*

Project name: _____

Owner: _____

Project number: _____

No.	Description	<u>Responsibility</u>	Date complete
1	Punchlist completion		
2	Remove all temporary site facilities, trailers, etc.		
3	Collect all final invoices/billings: complete and deliver final billing		
4	Complete and collect all final lien waivers		
5	Final inspections/secure certificate of occupancy from code authority		
6	Contact insurance carrier(s) – policy end		
7	Final cleaning – interior		
8	Final cleaning/rubbish removal – site		
9	Secure as-built drawings and Record Documents		
10	Secure operations & maintenance (O & M) manuals		
11	Secure all product warranties (*may be part of O & M)		
12	Facility systems start-up and HART employee training programs		
13	Supply HART with additional material and spare parts per spec		
14	Collect and transfer keys to HART prior to final keying		
15	Change over utility connections/fees (gas, electric, telephone, etc.)		
16	Reconcile change orders and retainages		
17	Prepare final manual(s) per specification		
18	Complete final A/E affidavits and closeout documents		
19	Notice of completion/closeout documents from A/E		
20			
21			
22			
23			

*The list of items may be subject to change, and it is not exhaustive, however, provides generally the requirements for closeout.

Release and Certificate of Final Payment

With reference to Contract/P.O. No. _____ dated _____,

(Name of Contractor) _____ and

the HONOLULU AUTHORITY FOR RAPID TRANSPORTATION (“HART”),

the Undersigned hereby certifies and represents that it has made full payment of all costs, charges and expenses incurred by it or on its behalf for work, labor, services, materials and equipment provided or used by the Contractor in connection with the Work under the said Contract/P.O.

The Undersigned further certifies that to its best knowledge and belief, each of its subcontractors and materials has made full payment of costs, charges, and expenses incurred by them or on their behalf for work, labor, services, materials, and equipment provided or used by them in connection with the Undersigned’s work under said subcontract and has obtained releases to that effect.

In consideration of the final payment under the Contract, the Undersigned hereby unconditionally releases and forever discharges HART and the City and County of Honolulu (“City”) from all claims, liens, and obligations of every nature arising out of or in connection with the performance of the said Contract and all amendments thereto, except as set forth below (or attached):

 [Note: If none, write “None” in space above any claims excepted must be described and the specific amount claimed must be set forth.]

As additional consideration for this payment, the Contractor agrees to the fullest extent of the law to indemnify and hold harmless HART and the City from and against all costs, losses, damages, claims, causes of action, judgments and expenses, including attorney’s fees, arising out of or in connection with claims against HART or the City, which claims arise out of the performance of the Work under the Contract and which may be asserted by the Contractor or any of its suppliers, subcontractors of any tier or any of their representatives, officers, agents or employees except for those claims listed above (or attached), and except for claims arising out of the sole negligence or willful misconduct of the City or HART.

The foregoing shall not relieve the Undersigned of its obligations under the provisions of said Contract, as amended, which by their nature survive completion of the Work including, without limitation, warranties, guarantees, and indemnities.

Executed this _____ day of _____, 20____

 (Name of Contractor)

SIGNED (AUTHORITY SIGNATORY FOR CONTRACTOR)

TITLE

7.33 Operation and Maintenance Data

7.33.1 Contractor's Responsibilities

(a) The Contractor shall provide and install, where specified or directed, a printed sheet under framed clear acrylic plastic, giving brief, concise operating and maintenance instructions for all items of mechanical and electrical equipment and similar equipment and specialty items, as applicable, at their respective locations.

(b) The Contractor shall submit to HART via CMS, the manufacturer's certificates, warranty slips, parts lists, descriptive brochures, maintenance and operating instructions for all equipment and systems installed, properly tabbed and identified for easy reference.

- (1) The maintenance and operating instructions shall include a front page with a recognizable illustration of the equipment described, the name and function of the equipment, manufacturer's identification number, and the Contract Specifications number and title.
- (2) The maintenance and operating instructions shall also include information covering description, installation (including pre-installation inspection), operation (step-by-step procedures for starting, restarting, operating, shutdown, emergency requirements, and trouble-shooting), preventive maintenance, corrective maintenance, overhaul, calibration, list of recommended spare parts, and parts list with all necessary information, including part numbers and catalog item numbers, if applicable, for identifying parts, and whether such parts were obtained by another manufacturer and names of such manufacturers. Include information on performance specifications and operating limitations and safety precautions.
- (3) Before Final Acceptance and after receipt from HART notifying the Contractor that the maintenance and operating instructions do not conform or are properly drafted, Contractor shall revise and resubmit via CMS the revised instructions for HART's review.
- (4) Before Final Acceptance, the Contractor shall provide instructions to designated HART personnel in the operation, adjustment, and maintenance of all installed equipment and systems.

7.34 Project Record Documents

7.34.1 Maintenance of Record Documents

(a) The Contractor shall maintain at the Project site relevant contractual documents for record purposes (“Record Documents”), including, but not limited to:

- (1) As-Built Drawings and Specifications;
- (2) Change Orders;
- (3) Submittals provided to HART;
- (4) Clarifications or explanatory details;
- (5) Inspection reports;
- (6) Laboratory test records;
- (7) Field test reports and records;
- (8) Factory test reports and records; and
- (9) Interface Documentation per GCDB 7.2

(b) Record Documents shall not be used for construction or fabrication purposes. Record Documents shall be used for record purposes only and stored in the Contractor’s field office or other accepted location, apart from the documents used for construction.

(c) Work shall not be permanently concealed until the required information has been recorded.

(d) The Contractor shall maintain electronic files for shop drawings and other documents which are required to be submitted electronically. The Contractor shall ensure that backups of electronic files are made regularly after Record Documents are updated.

(e) The Contractor shall provide files and racks for storage of documents at the field office for easy access.

(f) The Record Documents shall be filed in accordance with the section number and title of the Construction Specifications.

(g) The Record Documents shall be maintained in a clean, dry, legible condition.

(h) The Contractor shall make documents available at all times for inspection by HART and make copies of electronic documents available upon HART’s request.

(i) The Contractors Engineer shall update the electronic Construction Drawings and Technical Specifications to establish a conformed electronic set of As-Built documents.

7.34.2 Record Documents: As-Built Drawings

(a) The Contractor shall maintain one set of full size As-Built Drawings of all Work and subcontractors’ work continuously as the job progresses. The Contractor shall keep a separate set of prints, for this purpose only, at the Contractor’s field office at all times.

(b) The Contractor shall clearly and legibly mark As-Built Drawings in red ink, or in red pencil, if sharp, neat and clearly legible to show all variations between actual construction(s) and that are indicated or specified in the Construction Drawings. The As-Built Drawings shall show variances from the Construction Drawings in detail. Variances from the Construction Drawings include utilities and services, mechanical and electrical lines, details, and other Work installed in walls or otherwise concealed. The As-Built Drawings shall show location of main runs, whether wiring, piping, conduit,

ductwork, or drain lines, by dimension and elevation. Shop drawings may be used to reflect record conditions, in which case, the Contractor shall mark the appropriate Construction Documents to refer to such shop drawings as part of the record configuration.

(c) HART may withhold progress payments if As-Built Drawings are not kept current.

(d) Where a choice of material or method is permitted herein or where variations in scope or character of Work from that of the original Construction Documents are authorized, the Contractor shall mark the As-Built Drawings to define the construction actually provided. For equipment installation, As-Built Drawings shall show the size, manufacturer's name, model number, and power input or output characteristic applicable.

(e) Contractor-furnished drawings shall be of sufficient size, scale, and detail.

(f) Prior to final inspection, the Contractor shall submit via CMS the marked-up As-Built Drawings and a letter of certification stating that construction is in accordance with the requirements of the Contract Documents and as represented in the attached As-Built drawings. The following information shall be included, at minimum, in the letter of certification:

- (1) Date of submission;
- (2) Project title and number;
- (3) The Contractor's name and address;
- (4) Title and number of each record drawing, group in categories or divisions of work or as specified by HART;
- (5) Certification that each document as submitted is complete and accurate; and
- (6) Signature of the Contractor's authorized representative.

(g) In addition to the marked-up set of record drawings, the Contractor's Engineer shall prove an electronic version of the As-Built documents (Contractor's Construction Drawings and Technical Specifications).

7.34.3 Record Documents: Change Orders

(a) Changes, as provided in Change Orders, shall be incorporated into the record contract drawings. The Contractor shall identify the changes by Change Order number and the effective date.

(b) When revised Contract Drawings are issued as the basis of or along with Change Orders, the Contractor shall incorporate the revised drawings into the As-Built Drawings and annotate as a Change Order.

7.34.4 Record Documents: Specifications

(a) The Contractor shall maintain one set of As-Built Specifications for all Work continuously as the job progresses. The Contractor shall keep a separate set of prints, for this purpose only, at the Contractor's field office at all times.

(b) The Contractor shall clearly and legibly mark As-Built Specifications in red ink, red pencil, or electronically; to show all variations between actual constructed Work and that indicated in the Construction Specifications. In applicable Construction Specification sections, record the manufacturer, trade name, catalog number, and supplier of each product and item of equipment actually furnished and installed, including manufacturer and supplier's address and telephone number. The As-Built Specifications shall be complete and shall include all applicable Construction Documents other than drawings.

(c) HART may withhold progress payments if As-Built Drawings and/or Specifications are not kept current.

(d) Prior to final inspection, the Contractor shall submit via CMS the marked-up As-Built Drawings and a letter of certification stating that construction is in accordance with the requirements of the Contract Documents and as represented in the attached As- Built Drawings. The following information shall be included, at minimum, in the letter of certification:

- (1) Date of submission;
 - (2) Project title and number;
 - (3) The Contractor's name and address;
 - (4) Title and number of each drawing, group in categories or divisions of work or as specified by HART;
 - (5) Certification that each document as submitted is complete and accurate; and
 - (6) Signature of the Contractor's authorized representative
- (e) Prior to Contract Closeout, the Contractor shall submit via CMS final Record Specifications.

7.35 Spare Parts

- (a) The Contractor shall provide specific spare parts in quantities as specified in the Contract Documents.
- (b) Spare parts shall be identical to the parts installed in the Work.
- (c) Wear: The Contractor shall provide spare parts for components which may be expected to require regular replacement under normal maintenance schedules, such as mechanical parts subject to continuous operation.
- (d) Consumability: The Contractor shall provide spare parts for components with a life-expectancy of less than five (5) years.
- (e) One-Time Limited Service: The Contractor shall provide spare parts that normally require replacement after performing their function one time, such as fuses.
- (f) Long Lead Time: The Contractor shall provide spare parts for components that are not readily available from distributors, such as for custom-fabricated components.
- (g) Exchange Assemblies: The Contractor shall provide assemblies which will be exchanged with malfunctioning units for installed equipment and which shall be inventoried as complete assemblies.

7.36 Demonstration and Training

7.36.1 Contractor's Responsibilities

As a part of its duties and responsibilities under the Contract, the Contractor shall:

- (1) Provide training sessions, training manuals, and training aids for HART and its authorized entities;
- (2) Prior to final inspection and Final Acceptance, provide instruction and training to HART's designated personnel in the operation, start-up and shut-down, adjustment, troubleshooting, servicing, and preventive maintenance of all installed equipment and facility systems;
- (3) Provide training manuals and other instructional materials and teaching aids required to perform the instruction and training. All such instructional materials and teaching aids shall become the property of HART. HART reserves the right to copy all training manual and teaching aids for use in HART-conducted training courses;
- (4) Provide classroom and/or on-site instruction, as appropriate, if requested by HART for the particular installed equipment or system; and
- (5) Provide the services of manufacturers' representatives for instruction and training when special equipment and systems require the knowledge and expertise of various manufacturers for proper operation and servicing of such equipment and systems and/or requested by HART.

7.36.2 Videotapes of Training Sessions

HART has the right to videotape any and all training sessions presented by the Contractor. HART also has the right to use these videotapes for future HART-conducted training courses.

7.37 Materials and Equipment

7.37.1 Short Supply Materials and Equipment

(a) HART does not assume any responsibility for the availability of any materials required under this Contract. Unless otherwise specified in the solicitation documents, the Offeror shall be considered as having taken into account the availability of materials required under the Contract when submitting a proposal.

(b) **Price Adjustment for Short Supply Materials.** HART recognizes that certain items of material to be incorporated into the Project and/or used in performance of the Work may be temporarily in short supply, beyond the control and without fault of either HART or the Contractor. The effects of such shortages may result in periodic fluctuations in the posted prices of such short supply materials. However, the only materials that will be considered to be in short supply under this Contract are Asphalt Bitumen, Portland Cement, Ready-Mix Concrete, Crushed Stone, Base Course, Rolled Steel (including Structural Steel, Pipe, Shaft Casing, and Galvanized Steel), and Reinforcing Bars (Rebar) (hereafter, collectively referred to as “Short Supply Material”).

(c) **Procedure for Adjustment.** The Engineering News Record (ENR) Construction Economics, 20-city average price shall be the basis for determining an adjustment in price of Short Supply Material. If the Current ENR 20-City Average Price (the ENR 20-city average price at the time of delivery of the materials at the Project site) of the Short Supply Material increases or decreases by more than 10% from the Base ENR 20-City average price (the ENR 20-city average price at the time of submission of the final Proposal), the Contractor may submit to HART a written request for an equitable price adjustment no later than thirty (30) days upon delivery of the Short Supply Material and in no event after the start of incorporating the materials into the Project Work.

(d) No price adjustment will be allowed when the increase or decrease in the Current ENR 20-City Average Price for Short Supply Material is less than 10% of the Base ENR 20-City average.

(e) If the Current ENR 20-City Average Price decreases greater than 10% below the Base ENR 20-City Average Price of Short Supply Material, HART shall be credited the difference.

(f) When a price adjustment is made in accordance with this Section, the price adjustment will be allowed so long as the Current ENR 20-City Average Price of Short Supply Material remains at least 10% more or 10% less than the Base ENR 20-City Average Price until the end of the month of the delivery of the Short Supply Material.

(g) **Compensation formulas.** The Short Supply Material price adjustment formula will be used only when the increase or decrease is greater than 10% of the Base ENR 20-City Average Price. Price adjustment computation for the Short Supply Material will be as follows:

- (1) $PA=Q(SMCP-1.10SMBP)$, if the increase is greater than 10% of the base ENR 20-city price; and
- (2) $PA=Q(SMCP-0.90SMBP)$, if the decrease is greater than 10% of the Base ENR 20-city price;
 - PA =Price adjustment in dollars;
 - Q =Total installed quantity of the specific Short Supply Material installed during the month (as an example; tons of asphalt, base course, crushed stone or cost per hundred weight (\$/cwt) for steel or rebar);
 - $SMCP$ =Short Supply Material Current Price in the ENR 20-city average for the specific material; and

- SMBP = Short Supply Material Base Price in the ENR 20-city average for the specific material.

END OF CHAPTER