TECHNICAL PROVISIONS FOR:

KAUMUALII HIGHWAY,
LIHUE MILL BRIDGE TO RICE STREET
PROJECT NO. ARR-050-1(036)

I OVERVIEW

The Kaumualii Highway, Lihue Mill Bridge to Rice Street ("Project") is a design-build project and will be awarded using the two-step process described herein and in the Request for Proposals (RFP).

The Proposer ("Proposer") is defined as all participants involved in the design and construction of the Project, Project No. ARR-050-1(36). The Proposer will be responsible to use the information contained in this package to:

- Obtain other information as determined by the Proposer
- Prepare documents such as but not limited to construction drawings, specifications, shop drawings, estimates, permits, clearances, etc.
- Obtain the State Highway Division's (HDOT) confirmation of compliance of the Proposer's designed construction documents
- Provide quality control measures
- Construct the Project in accordance with the accepted construction documents

The purpose of this package is to provide prospective Proposers with available information and parameters so that a detailed proposal for the design and construction of this Project can be prepared and submitted to HDOT for evaluation and award in accordance with these Special Provisions. HDOT's intent is to have the Proposer combine engineering services, project management, and construction under one contract between HDOT and the Proposer and to establish a single point of responsibility for the work.

HDOT reserves the right to revise these Technical Provisions up to the time of the final submittal of the design proposal. Such revisions, if any, will be in the form of written addenda issued by HDOT. HDOT will post a notification on the HDOT website that an addenda is being issued and notify all known RFP recipients that the addenda is available for pick up at the Contracts Office.

II DESIGN AND CONSTRUCTION CRITERIA AND PARAMETERS

A. PROJECT DESCRIPTION

The project includes: design and construction services to widen Kaumualii Highway from the existing two (2) lanes to a four (4) lane divided highway, construct a new bridge structure spanning Nawiliwili Stream, rehabilitate and widen the existing Lihue Mill

Bridge and realign Hoomana Road. Other work consists of, but is not limited to the design and construction of new asphalt and portland cement concrete pavements, drainage systems, sidewalks, pavement markings, traffic signs, guardrails, highway lighting, landscape planting, relocation/installation of utilities, temporary traffic control, addressing mitigation of archaeological and historic sites within the project limits, providing temporary and permanent Best Management Practices (BMP), and processing permits required to complete the project in conformance with appropriate Federal, State, and local standards and laws.

Road Design:

1) General Description of Existing Roadway

a. The existing Kaumualii Highway is a two-lane undivided highway. It is the main highway connecting Lihue with the other towns in the south-central and southwestern portions of Kauai, such as Kalaheo, Hanapepe and Waimea.

b. Lane widths along the highway generally vary between 11 feet and 12 feet. Shoulder widths generally vary from 0 feet to 15 feet.

c. Traveled way pavement consists of flexible asphalt concrete (AC) as well as newly installed portland cement concrete pavement (PCC).

d. The highway contains drainage systems along both shoulders. Drainage facilities generally consist of open swales with grated inlets, headwall or catch basins. Runoff from inlets are collected by pipes and discharged at stream crossings or other external drainage systems.

e. The existing Lihue Mill Bridge is located within the project area and will remain in-place.

f. Hoomana Road serves as access to German Hill Subdivision, which is a residential neighborhood with approximately 20 houses.

2) Scope of Improvements

The project scope generally includes, but is not limited to:

a. Design and construction services to widen Kaumualii Highway from the existing two (2) lanes to a four (4) lane divided highway.

b. Construction of a new bridge structure spanning Nawiliwili Stream.

c. Rehabilitation and widening of the existing Lihue Mill Bridge.

i. The bridge should conform to HDOT Design Criteria for Bridge and Structures unless certain criteria are waived by HDOT for specific design elements to meet Section 106 MOA stipulations. The HDOT may waive criteria before and after the proposal deadline if deemed necessary by the final Section 106 Memorandum of Agreement. A copy of the draft Memorandum of Agreement is included in this RFP for information purposes. To the extent possible, the historically significant features of the bridge should be preserved. Changes to the MOA could possibly restrict the widening of the existing bridge to its current cross section. If this happens then work on the existing bridge will be limited to rehabilitation and restoration only. The Proposers will be notified by addenda if the MOA restricts the widening. Proposers are to proceed as if widening and rehabilitation is required unless notified through addenda otherwise.

ii. The bridge should be widened to conform to the cross section of the conceptual plans.

iii. The existing structural steel framing should be preserved and the substructure's aesthetic appearance and reinforcement consistent with Kauai Historic Preservation Review Commission's (KHPRC) and State Historic Preservation Division's (SHPD) preference should be provided. Any deviation from the concept shown in this document should be coordinated and approved by KHPRC and SHPD. The existing structural elements of the bridge should be cleaned, repaired, painted, and restored to like new. Color should be coordinated with KHPRC and HDOT.

iv. The bridge railing on the existing bridge should be upgraded to meet the HDOT Design Criteria for Bridge and Structures. The design of the railings should, to the maximum extent possible, be consistent with the existing design, i.e., the design should be consistent with KHPRC

and SHPD preference. The Proposer may submit design exception requests. These requests should be submitted after the Proposer has been selected. The requests should comply with current HDOT procedures for design exceptions. Acceptance and approval of the design exception requests will be at the discretion of HDOT.

d. Realignment of Hoomana Road

B. DESIGN AND CONSTRUCTION PROVISIONS

For evaluation purposes, HDOT will assume conformance to these provisions unless specifically stated otherwise in the Proposer's proposal. Variances from these provisions are subject to HDOT acceptance. The Proposer's proposal may deviate from these provisions at the Proposer's risk. Proposals which are considered as deviating from these technical provisions may not necessarily be considered non-responsive, but will be scored with respect to all the stated requirements and their benefits and/or detriment to the project.

One 12-foot wide lane of traffic in both directions with a two foot "shy line" clearance should be provided at all times through the project area unless an exception is accepted by HDOT through the Alternative Technical Concept process. In areas of the project where the existing road will be maintained, the lane width should match the existing traffic lane width.

New and temporary facilities should be designed and constructed to the following guidelines:

1) Design Designation

Existing 2010 ADT	29,700
Projected 2030 ADT	36,800
DHV	2,900
Directional Distribution % (DES)	55/45
Trucks % (DES)	4.5
V	35 MPH
Design vehicle	SU, WB-50
Functional Classification:	Urban Arterial
Maximum superelevation Rate (e max):	8%

2) Design Parameters

New Widened Highway (High Volume Urban)

a. Four (4) lane divided highway;

b. Twelve (12) foot wide travel lanes;

c. Paved shoulders (see drawings);

d. Two (2) foot gutter;

e. Six (6) and eight (8) foot wide sidewalk (East Bound);

f. Median width – 16 to 22.5 feet;

g. The pavement for new roadways should be concrete to blend in with the newly constructed concrete sections;

h. Areas where the concrete changes from asphalt concrete pavement to concrete pavement or vice versa should include a transition piece at the interface area;

The new Nawiliwili Stream Bridge structure should be designed to the following (see drawings for typical section):

a. Two (2)-12 foot wide travel lanes;

b. Four (4) foot wide shoulders on South side and eight (8) foot wide median on North side;

c. Six (6) foot wide bike lane;

d. Current HDOT drainage criteria for highway drainage;

e. Provide NCHRP 350 TL 3 end treatment to all ends of the railing;

f. Other design criteria items contained in the plans and technical provisions;

g. The bridge type and configuration should be aesthetically similar to the existing Lihue Mill Bridge in profile and style;

h. The foundation of the new bridge should consist of drilled shafts or driven piles. Method used for the installation of piles should not utilize or damage the adjacent existing Lihue Mill Bridge;

The existing Lihue Mill Bridge structure should be designed to the following:

a. Two (2) – Twelve (12) foot wide travel lanes;

b. Eight (8) foot wide shoulder;

c. Six (6) foot wide sidewalk;

d. Five (5) foot – seven (7) inch wide median;

e. Current HDOT drainage criteria for highway drainage.

The foundation of the existing bridge widening structure should utilize drilled shafts, driven piles, or micropiles. Other foundation types may be considered;

f. Provide NCHRP 350 TL 3 end treatment to all ends of the railing with context sensitivity;

g. Other design criteria items contained in the plans and technical provisions;

3) The project limits should be:

The transition area from the Kaumualii Highway Widening project located approximately 420 feet southwest of Hala Road (approximate Station 359+60) to approximately 50 feet north of Rice Street (approximate Station 384+59.97).

4) The Proposer should develop a work zone mobility traffic management plan for review and approval by the HDOT. The Proposer is responsible for coordinating construction activities with other work being done in the vicinity of this project.

5) Bifurcation of the roadway is allowed provided that the finished roadway grading allows for the ultimate full cross-section build-out scenario without requiring any additional retaining walls or structures to be constructed.

6) All roadway improvements should be contained within the existing highway right-of-way (ROW). All permanent improvements should be located within existing State ROW or permanent acquisition parcels and all temporary improvements should be located in existing State ROW,

permanent acquisition parcels, or construction parcels. It is the responsibility of the Proposer to verify ROW and obtain additional easements or construction parcels.

7) Median breaks should only occur at signalized intersections or as accepted by HDOT.

8) Appropriate pavement markings, signage, and signals should be provided by the Proposer.

9) Documentation for Design Exceptions should be prepared by the Proposer and submitted to HDOT for review and approval processing. Design exception approval submittal deadlines will be accordance with the Alternative Technical Concepts Provisions.

10) Install new guardrails in areas where guardrails are warranted and replace existing guardrail to be consistent with the project improvements and current standards. The Proposer should perform a warrant for guardrail assessment.

11) The improvements should be designed based on a design speed of 35 miles per hour.

12) The improvements should be designed based on a design vehicle SU, WB-50.

13) Utility Corridor and Utility Company Systems

Scope of Improvements: The work should include, but is not limited to, the following:

a. Relocate existing utilities affected by proposed work in coordination with Utility Companies having jurisdiction, as necessary.

b. Relocate existing Sandwich Isle Communications facilities as necessary. HDOT will not pay for this relocation. Coordinate payment and relocation with Sandwich Isle Communications (SIC).

c. Except for minor and isolated areas, relocate all utilities impacted by the new work in accordance with the directive provided in this document, with HAR Chapter 19-105, "Accommodation and Installation of Utilities on State Highways and Federal Aid County

Highways", with the requirements of the utility company or government agency involved, and the Contract Documents. Should a conflict arise, HDOT will have the final say.

d. In accordance with HDOT's Pipeline Removal Policy, all segments of existing utility rendered inactive as a result of any relocation work should be removed from the highway right-of-way. Some pipes may be considered hazardous waste and should be removed and disposed of as such.

e. Prepare construction plans and detailed cost proposal for the utility relocation and obtain plan and cost proposal acceptance from the affected utility or government agency and from the HDOT. Utility relocation will be paid for on a Force Account basis. Utility companies are responsible for all betterment costs (direct and indirect), and will be required to provide funds in advance of construction. If the utility company does not comply with these requirements, no betterment work will be considered by the HDOT in this project. Existing utilities no longer in use due to relocation should be removed.

Utility Agreements or MOUs for the following utilities, if affected by the Project, are required

i. Kauai Island Utility Cooperative
ii. Hawaiian Telcom Utilities
iii. Oceanic Time-Warner Utilities
iv. Department of Water

f. Temporary work required for incremental work:
Proposer will be responsible to design, install and remove from the project all temporary work necessary to tie in a completed increment(s) to the existing or new roadway. This work includes but is not limited to pavement striping and markers, traffic signs, lighting, traffic signals, utilities, and drainage.

HDOT will consider the temporary work as included in the contract prices of the various contract items and will not pay for the temporary work separately.

g. Maintenance of Completed Increments: The Proposer will be responsible to maintain any completed increment(s) opened for public use in accordance with Hawaii Standard Specifications for Road and Bridge Construction 2005 Subsection 105.13

Maintenance. HDOT will consider this maintenance work as included in the contract prices for the various contract items and will not pay for this maintenance work separately.

h. Miscellaneous Work: The Proposer is responsible for all work necessary to complete the Project, even if the work is not described in the contract documents, e.g., Specifications, Attachments, the Proposal Schedule, etc. The HDOT, at its sole discretion, may compensate the Proposer for any HDOT directed changes.

14) Codes and Design Standards to be used in design:

a. A Policy on Geometric Design for Highways and Streets, 5th edition by AASHTO (Green Book),

b. AASHTO LRFD Bridge Design Specifications, US Units 5th edition (2010) and subsequent interim revisions,

c. AASHTO AWS D1.5M D1.5:2008 Bridge Welding Code, with 2009 AASHTO Interim,

d. Hawaii Statewide Uniform Design Manual for Streets and Highways, State of Hawaii Division, October 1980,

e. Roadside Design Guide including Chapter 6 (2006), including latest revisions, AASHTO 2002,

f. Guide for the Development of Bicycle Facilities, AASHTO, 1999,

g. NCHRP Report 350,

h. Manual on Uniform Traffic Control Devices, 2003 edition,

i. Guide for the Planning, Design and Operation of Pedestrian Facilities, AASHTO,

j. Design Criteria for Highway Drainage, HDOT Highways Division, dated 10/1/2010,

k. Evaluating Scour at Bridge, Second Edition, HEC #18, U.S. Department of Transportation Federal Highway Administration, April 1993,

l. Stream Stability at Highways Structures, HEC #20, U.S.

Department of Transportation Federal Highway Administration,

m. Other Applicable Hydraulic Engineer Circulars (HEC) and Hydraulic Design Series (HDS), U.S. Department of Transportation, Federal Highway Administration,

n. State of Hawaii, Department of Transportation, Design Criteria for Bridges and Structures, 10/20/2010,

o. State of Hawaii, Department of Transportation, Highways Division, Statewide Policy for Permanent Highway Safety Hardware, March 1, 1999 (HWY-TD2.2822),

p. Required Data for Consultant Design Projects or Design-Built Project, dated November 24, 1999, HDOT, Bridge,

q. Roadway Lighting Design Guide, AASHTO, 2005,

r. Pavement Design Manual by the Materials Testing and Research Branch, Highways Division, Department of Transportation, March 2002,

s. Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signal, 5th Edition, 2009 including interim revisions; Published by the American Association of State Highway and Transportation Officials,

t. National Electric Code, 2002 Edition, NFPA 70,

u. Applicable sections of 23 CFR 650,

v. FEMA/ National Flood Insurance Program requirements,

w. Standard Details for Public Work Construction, Sept. 1984,

x. Standard Specifications for Public Work Construction, Sept. 1986,

y. Standard Plans, HDOT, Highways Division, 2008 (STANDARD PLANS, 2008),

z. Standard Specifications for Road and Bridge Construction, including Special Provisions, HDOT, Highways Division, 2005 (Standard Specifications),

aa. Water System Standards, Department of Water Supply, 2002 as amended,

bb. Storm Water Permanent Best Management Practices Manual, March 2007,

cc. Clean Water Act Section 401 404 MOU, July 2003,

dd. Pipeline Removal Policy, April 2005,

ee. Design Exception Policy,

ff. Statewide Work Zone Safety and Mobility Process, October 4, 2007 (HWY-TD 2.5931),

gg. Construction Best Management Practices Field Manual, HDOT, Highways Division, January 2008,

hh. Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Plans and Specifications, Publication No. FHWA ED-88-053,

ii. Accommodation and Installation of Utilities on State Highway and Federal Aid County Highway, Hawaii Administrative Rules, Title 19, Chapter 105,

jj. Updated Operating and Inventory Rating Using Load Factor Design (LFD) (HWY-DB 2.6272),

kk. Basic Wind Speed: 105 mph,

ll. Mean Recurrence Interval: 100 years,

mm. Standards for Fiber Optic Outside Plan Communications Cable, ANSI/ICEA S-87-640-1992,

nn. Americans with Disabilities Act,

oo. American Disabilities Act - ADAAG reference manual, Designing Sidewalks and Trails for Access Part I and II, 7/99,

pp. Any other applicable codes and standards used for the design of highway projects. If there is a conflict between documents, the

more stringent should apply. Where it is unclear, HDOT will make the determination as to which document will apply.

C. AVAILABLE DRAWINGS AND/OR REFERENCES

1) As-Built Drawings

The following drawings are available for on-line viewing at the Department of Transportation, Highways Division, Kauai District. Please contact Mr. Stanford Iwamoto at (808) 241-3015 or by email at Stanford.M.Iwamoto@hawaii.gov to arrange an appointment. Viewing stations are limited.

Project Title	Project Number	Date
Lihue Road (Kaumualii Highway)	WPGS-24-A	1935
Kaumualii Highway, Kuhio Highway, and Rice Street Intersection Improvements	50E-01-98	2001
Kaumualii Highway Widening, Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge	NH-050-1(31)	2010

2) Reference Drawings

a. A conceptual version of the Kaumualii Highway from the existing two (2) lanes to a four (4) lane divided highway, and new bridge structure spanning Nawiliwili Stream are provided as an attachment to the RFP. The existing Lihue Mill Bridge will be widened to be consistent with the conceptual plans. Please note that the conceptual plans do not necessarily comply with the requirements as stated in this Request for Proposals (RFP) and, therefore, are for reference and/or information purposes only. The conceptual design provided in the RFP does not necessarily meet all required criteria. **Should the Proposer choose to further develop this design, in whole or in part, the Proposer is responsible to meet design criteria items contained in the plans and technical provisions.**

D. PROJECT OBJECTIVES

HDOT is seeking the following characteristics:

1) Minimize Project Cost – project cost should be within the estimated budget of $35M to 45M.

2) Effective Traffic Management – the Proposer utilizes a combination of efficient construction traffic control and project duration which balances the effect of construction impact to the traveling public and safe work zones for highway users and workers.

3) Technical Approach – the Proposer maximizes conformance to the specified guidelines and mitigation measures and establishes a cooperative work process which allows the HDOT an opportunity within the design process to collaborate and offer input. Variances from any requirements require HDOT approval prior to implementation.

4) Aesthetics of Design and Context Sensitivity – the Proposer provides a balance of aesthetics with principles of sustainability and low maintenance. The Proposer provides a design that retains, to the highest extent possible, the historically significant features of the existing Lihue Mill Bridge. The Proposer identifies measures to limit and mitigate erosion as best as possible. The Proposer provides a design to encourage safe bicycle and pedestrian use of the project area. Include reviews and approvals in project schedule.

5) QC plan - the Proposer provides quality control (QC) for both the design and construction elements of the project, and coordinate design review and quality control activities with HDOT or other affected agencies. Perform tests for quality control, provide inspection, and exercise management control to ensure that work conforms to the contract requirements. Provide for all needed material, time, labor, equipment, data, schedules, etc. needed by HDOT and other affected agencies to conduct their QA activities.

E. SCOPE OF WORK AND SERVICES

The Proposer shall be responsible for including as part of the Proposer's engineering consultants and sub consultants (Civil, Structural, Geotechnical, Environmental, Electrical, Traffic, Surveying, Landscape and others as deemed necessary by HDOT) with designated leads who have the necessary licenses and experience to practice in the State of Hawaii. The Proposer shall prepare construction drawings and specifications as

well as all other needed documents to be used by the Proposer to construct the project, and by HDOT to ensure the project is constructed as designed. The Proposer's consultant or subconsultant shall sign and stamp all design documents they contributed including but not limited to drawings, calculations and basis of design. A topographic study has been performed and is available from HDOT. The Proposer will be responsible for verifying the information included in the topographic study.

The Proposer is solely responsible for the design and successful construction of the project using the Proposer prepared construction drawings and specifications. No claims shall be made by the Proposer for any items that HDOT may have reviewed in the Proposer's submittals, that may have contained design errors or omissions, changes, scheduling conflicts, improper material, or other conflicting information that HDOT did not comment on or specifically accept in previous submittals. HDOT may compensate the Proposer for claims related to HDOT directed changes to the work scope, as solely determined by HDOT. Compensation for these changes shall only be claimed for by the Proposer if the original Proposer's design could be constructed without the directed change and still meet all the requirements of the contract.

Elements of work will include but should not be limited to: additional topographic surveys, design work, design coordination with the Kauai County projects or known private projects, additional geotechnical investigations, temporary and permanent Best Management Practices, drainage studies, utilities coordination, utility relocations, construction of County utility improvements, obtaining and complying with all applicable clearances and permits, temporary and permanent traffic control and maintenance, temporary and permanent pavement markings, dewatering provisions, temporary and permanent roadway lighting, construction of all temporary and permanent features, obtaining additional construction parcels or easements if needed, public notifications, public meetings and consultations, paying for permit application fees, and all other necessary incidental items for a complete project.

A Final Environmental Assessment (FEA) and Finding of No Significant Impact (FONSI) published on 8/23/2000 has been prepared for the improvements to Kaumualii Highway. All design and construction work should conform to all commitments contained in these documents. Electronic copies of the FEA/FONSI on CD can be requested from HDOT and are available from the Highways Division Kauai District Office. Call Stanford Iwamoto at (808)241-3015 to check for availability.

This scope of work and services is intended to clarify the total scope that the Proposer must assume. It should not be considered a complete statement of work. As stated previously, the intent of this design/build contract is to combine all work and services for the project into one contract and point of responsibility.

The Proposer will be responsible for furnishing all supervision, professional services, labor, equipment, tools, supplies, permanent materials, and temporary materials required

to provide the following services:

1) Design Services

The Proposer's engineer will be responsible for providing the following services and preparing:

a. Basis of Geometric Design summary

b. Drainage report

The Drainage Report should be completed and accepted before any earthwork commences. The Drainage Report should evaluate drainage for both off-site and on-site improvements. The contents of the report should follow the guidelines in the current HDOT's "Design Criteria for Highway Drainage", dated 10/1/10.

c. Topographic surveys, as deemed necessary.

d. Boundary surveys,

e. All engineering and survey calculations,

f. Structural design calculations and load rating analysis for bridges and culvert crossings (if applicable),

g. Utilities coordination and Utilities Agreement estimates and documents,

h. Public announcements and conducting public meetings,

i. Site-Specific Best management plan and details to comply with various permit requirements including a Permanent Best Management Practices (BMP) Report,

If permanent BMP is required, a Permanent BMP Report should be submitted to include, but not be limited to, the following:

i. Table of Contents

ii. Executive Summary

iii. Introduction (include description of project area, location and vicinity maps)

iv. Permanent BMP checklist

v. Outfall (include location of affected outfall area, coordinate outfall with potential downstream archaeological sites to ensure no adverse impact, description of outfall condition and potential impact)

vi. Permanent BMP Description (include description and intended treatment, description of environmental resources, regulatory requirements, construction plans/ details showing permanent BMP locations, location of outfalls impacted by the drainage improvements, calculations of surface area and volume tabulation, right-of-way requirements, maintenance requirements, construction cost estimate)

vii. Appendix (include applicable computations, existing and proposed drainage maps, photos)

viii. References

If Permanent BMP is not required for the project, a completed Permanent BMP checklist should be submitted.

2) Alternative Technical Concepts

To promote innovation by the Proposers and to maintain flexibility of design and construction, HDOT will allow Proposers to submit for consideration Alternative Technical Concepts (ATCs) that provides a variation in the Scope of Improvements. Proposed ATCs should not have an adverse effect on project quality and objectives. This will be determined by HDOT at its sole discretion. HDOT reserves the right to reject proposed ATCs or ask the Proposer to revise and resubmit at their sole discretion. Proposed ATCs most likely to receive favorable consideration are those that are consistent with HDOT's project objectives, and more specifically, maximize efficiency, incorporate technical innovation, reduce project schedule, minimize project cost, minimize traffic impacts, provide for reduction of maintenance, increase service life, or otherwise improve the quality of the project or reduce the contract time, thereby benefiting the public. The Proposer should demonstrate that the proposed ATC was either used successfully on a similar project under comparable circumstances or otherwise demonstrate the reliability and efficiency of the proposed ATC. HDOT will not consider any change that would require excessive time or cost for review, evaluation, investigation, or that does not result in increased benefits or savings to

HDOT. ATCs should be submitted to the Department of Transportation Contracts Office, 869 Punchbowl Street Honolulu, Hawaii 96813.

a. Pre-Proposal submittal of ATCs

To be considered, a proposed ATC must be submitted to HDOT no later than 30 calendar days prior to the proposal (Design and Price Proposal) submittal date. This deadline applies to both initial ATCs and ATCs that have been revised for resubmittal in response to HDOT's comments. Each ATC submittal package should consist of 10 copies and should address all of the following elements:

i. Description – A detailed description of and schematic drawings of the configuration of the ATC or other appropriate descriptive information including, if appropriate, product details (i.e. specifications, special provisions);
ii. Usage – A description of where and how the ATC would be used on the project;
iii. Variations – References to requirements in the RFP documents that are not consistent with the proposed ATC, an explanation of the nature of the variation from said requirements, and a request for approval of such deviations;
iv. Analysis – An analysis justifying use of the ATC and demonstrating why the requested variation from the requirements of the RFP documents should be allowed;
v. Impacts – Traffic study needed for changes to alignment. Existing TIAR and EA did not comprehensively analyze the intersection improvements at Kaumualii Highway and Hoomana Road. The Proposer should confirm and supplement the information in the existing TIAR and EA to appropriately analyze the existing intersection improvements;
vi. History – A detailed description of three other projects where the ATC has been used. Include project costs, lengths, and over run percentage, the success of such usage, and names and telephone numbers of project owners that can confirm such usage;
vii. Benefit – An estimate of cost savings and added value likely to result if the ATC were approved and implemented;
viii. Goals – Discussion on how the ATC is consistent with HDOT's Project Goals and Objectives.

b. Pre-Proposal Review of ATCs

Incomplete ATC submittal packages may be returned by HDOT without review or comment. HDOT may, in its discretion, request additional information regarding a proposed ATC and/or conduct meetings with the Proposer of ATC(s). In the event an incomplete ATC is received by HDOT but the Proposer fails to complete all revisions prior to the ATC submittal cutoff date as specified in 2.a. above, that ATC will not be considered or reviewed by HDOT. If an ATC is received before or on the cutoff date, HDOT may at its sole discretion request clarification or additional information providing the ATC addressed all, if any, comments made by HDOT previously. If it did not address the comments, the ATC will be considered incomplete and will not be considered or reviewed by HDOT. The Proposer in this situation shall, if additional information is requested by HDOT after the cutoff date, submit the information within two days of notice or the ATC will be rejected.

HDOT will return a determination to the Proposer submitting the ATC within 10 business days of receipt, provided HDOT has received all requested information regarding the ATC. HDOT's determination will indicate one of the following:

i. The ATC is approved; or
ii. The ATC is not approved; or
iii. The ATC is not approved in its present form, but may be approved upon satisfaction, in HDOT's sole judgment, of certain identified conditions that must be met or certain clarifications or modifications that must be made; or
iv. The submittal does not qualify as an ATC, but is eligible to be included in the Proposal without an ATC (i.e. concept conforms to the basic scope of improvements and is consistent with other contract requirements); or
v. The submittal does not qualify as an ATC and may not be included in the Proposal.

3) Traffic Engineering Plan

The Proposer will be responsible for submitting a Traffic Engineering Plan which articulates how they will address construction traffic control and traffic engineering design.

a. Construction phasing and traffic control around the work areas should consider:

i. Traffic flow;

ii. Pedestrians and bicycle traffic;
iii. Work zone mobility safety; and

HDOT reserves the right to impose revisions, as determined at the sole discretion of HDOT and at no additional cost or time, in the event that the practical effect of the Proposer's plan generates an undue amount of public complaints or other inconveniences.

The Proposer should obtain the services of a Traffic/Transportation Engineer specifically for the duration of the project construction for the entire corridor. The tasks for this traffic engineer should include, but not be limited to:

i. Provide the traffic operations function in support of construction activities, including managing messages posted on portable variable message signs.
ii. Provide construction management support as it relates to work zone traffic control and the observed impact to traffic.

Since traffic impacts or solutions may not be limited to the physical project limits, the Proposer's Traffic/Transportation Engineer should not limit the analysis of traffic impacts or the resolution of traffic impacts caused by the project to the limits of the project.

b. Traffic Engineering Design

The Proposer should complete a traffic study for the project area including the intersection of Kaumualii Highway and Hoomana Road. The traffic study should take into consideration future background traffic growth in addition to impact from all applicable surrounding developments. Intersection location should be considered for acceptable line-of-sight and lane configuration.

The Proposer will be responsible for the review of any and all previous documents as part of the FEA year 2000. The expectation of scope is not limited to the following:

- Update traffic data year of opening 2011 and horizon year 2030 as applied in all traffic operational components of the project.
- Safety and level of service operations analysis at new and existing intersections
- Warrant analysis per MUTCD 2009 for traffic controls
- Channelization design parameters
- Build consensus on the assumptions for existing and future

roadways, anticipated competed development projects, and operational analyses documented in a technical memorandum

- Update FEA traffic analysis

c. Intersection Street Lighting

Street lighting is required at all intersections. Limits include all auxiliary lanes (including tapers) and side roads up to the right-of-way line. The Proposer shall provide luminaries that meet the KIUC and HDOT highway lighting standards.

4) Landscape Design Services

The Proposer should prepare Construction Documents for landscaping improvements.

a. Intersection Landscaping

i. Design Criteria

Landscaping should be designed by a licensed landscape architect using the following criteria:

(a) Native, drought resistant, durable, and sustainable plant palette approved by HDOT Highways.
(b) No permanent irrigation.
(c) Improvements should retain a Kauai sense-of-place and should consider public input provided prior to final design.
(d) Low maintenance
(e) Landscape scope to include complete restoration of all existing improvements removed during construction. Proposer to include conceptual planting plans with list of plants to install including plant name, quantity, width, height, brown trunk height and trunk caliper size. Conceptual planting plan to include projected cost estimate for annual contracted maintenance.

b. Design

The Proposer will be responsible to prepare conceptual design plans for the landscaping. The plans should be drawn to HDOT Standards and in coordination with the HDOT Highways Division Landscape Architect.

The plans should include the following minimum information:

i. Limits of landscaping.
ii. Planting Plan
iii. Landscape Maintenance Specifications

The Landscape Maintenance Specifications should include the following in the State Department of Transportation format:

(a) Introduction and Summary;
(b) Operating Guidelines – Irrigation and watering schedule;
(c) Landscape Maintenance Specifications;

1. Invasive Species Management
2. Pruning,
3. Weeding,
4. Pest eradication and control,
5. Fertilizing,
6. Chemical Storage,
7. Waste Disposal,
8. Removal of temporary appurtenances,
9. Drainage facilities,
10. Root Pruning,
11. All applicable sections of the Standard Specifications,

(d) Maintenance Plan showing tasks and required frequency;
(e) Maintenance Specifications;

1. Fertilizer specifications and application,
2. Plant Material Inventory and Maintenance requirements,
3. Estimated water usage (gpd), and other maintenance costs,

(f) Representative Plant Material Photographs illustrating desired appearance.

The Proposer shall submit the conceptual design as part of the design package for review and acceptance. The successful Proposer shall submit the final design for review and acceptance to HDOT prior to planting.

5) Archaeological and Historic Preservation Services

The Proposer will be responsible for providing archaeological and historic preservation services as directed and comply with the following:

a. SHPD Consultation

i. The Proposer will conduct SHPD consultation during design to determine if additional field inspection services are required.

ii. If determined to be necessary by SHPD, the Proposer will coordinate the new bridge design with SHPD for review and approval.

b. There is a Memorandum of Agreement (MOA) between the Advisory Council on Historic Preservation, Federal Highway Administration, and the Hawaii State Historic Preservation Officer dated July 10, 2000. This document is in draft form and is included for information. The Proposer will be responsible for providing photo and written documentation to the satisfaction of the Hawaii State Historic Preservation Officer as required by stipulations 1, 2 and 3 of the MOA. The Proposer should present the design to the Kauai Historic Preservation Review Commission (KHPRC) at the conceptual and pre-final stage. KHPRC should be given the opportunity to provide comments and the Proposer will be responsible to address all comments to the satisfaction of KHPRC.

6) Utilities

a. Kauai Island Utility Cooperative

The Proposer will be responsible to furnish the design, materials, labor and equipment for the installation/ relocation of affected Kauai Island Utility Cooperative utilities/ facilities within the project limits or to the limits of the impact the change to the utility would make, e.g., to the nearest pull box or manhole outside the project limits etc. This work will include coordination with the respective utility company and executing a utility agreement. The Proposer will be responsible for preparing the utility agreement with the assistance of HDOT.

b. Hawaiian Telcom Utilities

The Proposer will be responsible for furnishing the design, materials, labor and equipment for the installation/ relocation of affected Hawaiian Telcom utilities within the project limits. This work will include coordination with the respective utility company and executing a utility agreement. The Proposer will prepare the utility agreement with the assistance of the HDOT's Engineer.

c. Oceanic Time-Warner Utilities

The Proposer will be responsible for furnishing the design, materials, labor and equipment for the installation/ relocation of affected Oceanic Time-Warner utilities within the project limits or to the limits of the impact the change to the utility would make, e.g., to the nearest pull box or manhole outside the project limits, etc. This work will include coordination with the respective utility company and executing a utility agreement. The Proposer will prepare the utility agreement with the assistance of HDOT.

d. Department of Water

The Proposer will be responsible for furnishing the design, materials, labor and equipment for the installation/ relocation of affected Department of Water utilities within the project limits or to the limits of the impact the change to the utility would make, e.g., to the nearest connection point or similar point outside the project limits etc. This work will include coordination with the respective utility company and executing a utility agreement. The Proposer will prepare the utility agreement with the assistance of HDOT.

F. PROJECT MANAGEMENT AND COORDINATION

The Proposer will be responsible for the overall project management and coordination of all professional design consultants and subconsultants, construction subcontractor, government agencies, landowners and tenants, and utility companies. This includes processing and paying consultant's and subcontractor's payment requests, settlement of disputes within the Proposer, participation in disputes with HDOT and providing all information requested by HDOT related to that dispute, distribution of required documents, providing submittals to HDOT, coordination of work on site, project schedule development and updates, document control, material control, conducting project related meetings, resolving public complaints, and all other coordination related to the Proposer's responsibilities required to complete the project.

All activities and decisions of the Proposer relating to the project where the following are involved will be subject to the review and acceptance by HDOT and FHWA:

1) Changes to the quality or quantity of materials,

2) Changes to utilities cost or utilities schedule,

3) Changes to project schedule,

4) Changes in permit requirements or changes that require revisions to permits,

5) Decisions or activities that may require changes to the Final Environmental Assessment (FEA),

6) Decisions or activities where landowners or tenants will be affected,

7) Decisions or activities where the traveling public or community members will be affected,

8) Decisions or activities that will require additional land acquisition or rentals.

In the event the Proposer's design changes any existing provisions in the FEA, the Proposer will be responsible for all delays and associated costs related to additional public notices or hearings and review by all affected agencies and processing an amendment to the FEA. Time required for these processes should be clearly noted as an activity on the Project Schedule. The Proposer should submit 10 copies of documentation related to item numbers F1 to F8 above for HDOT and FHWA's review and acceptance. HDOT and FHWA will review any such submittals within 30 calendar days upon receipt from the Proposer. In the event this review period falls on the critical path of the project, the project completion time will not be extended.

G. PERMITS AND CLEARANCES

The Proposer will be responsible for the preparation, submittal, and approval of all permits necessary to construct and complete the project, including but not limited to:

1) NPDES Permits for discharge of storm water associated with Construction Activities, Hydrotesting Activities, and discharge of effluent from dewatering operations.

2) Stream Channel Alteration Permit (SCAP),

3) Water Quality Certification (Section 401),

4) US Army Corps of Engineers Permit (Section 404),

5) CZM Federal Consistency Determination,

6) County Stockpiling, Grading, Disposal and Excavating Permits,

7) Assist the HDOT and the FHWA as needed with the National Historic Preservation Act (Section 106),

8) Assist the HDOT and the FHWA as needed with Section 4 (f) and 6 (f) Department of Transportation Act of 1966, as applicable,

9) Assist HDOT and FHWA as needed with Section 7 Endangered Species Act as applicable,

10) Work to Perform Upon County Highway Permit,

11) Noise Permit for Construction activities,

12) Noise variance permit for any nighttime work,

13) Underground Injection Control (UIC) permit, and

14) Other permits as required.

All permits and clearances should be obtained prior to the start of any construction pertaining to permit activities. The Proposer, its subcontractors and design consultants will be responsible for ensuring that all design and construction work complies with all permit conditions and commitments made with environmental and other agencies. HDOT will consider permit fees as included in the contract prices for the various contract items and will not pay for permit fees separately. No time extensions will be granted for delays due to the permitting process as a result of the Proposer's actions. Delays to the permitting agency actions may qualify for a time extension which will be the exclusive relief granted on account of such delays.

H. HDOT AND FHWA REVIEW OF CONSTRUCTION DOCUMENTS

Prior to commencing with the construction documents, the Proposer should meet with HDOT's Project Manager to confirm the drawing requirements such as sheet size and content of drawings and special provision requirements. Drawing requirements may vary

based on proposed concepts. These requirements can be addressed in discussions with HDOT during preparation of Design and Cost Proposals. The cost of reproduction of the submittals will be borne by the Proposer.

The Proposer is encouraged to maintain close communications with HDOT throughout the design and construction of the project. It is anticipated that this close communication will serve to expedite submittal review; facilitate the incorporation of innovative project solutions that will enhance the project; and facilitate final acceptance of the project.

Should the Proposer choose to hold meetings with HDOT, HDOT would be available to meet weekly during the design phase. Proposer should provide a minimum five working days notice to allow coordination of Key HDOT personnel schedules. The Proposer will be responsible for all meeting agendas (to be sent to invitees prior to meeting), and HDOT and FHWA may add items to agenda. The Proposer will be responsible for providing meeting facilities, and preparing meeting minutes to be sent to meeting participants within 7 calendar days. HDOT and FHWA will return comments, if any, on the minutes within 7 calendar days of receiving the minutes. The Proposer will be responsible for finalizing the minutes within 7 calendar days of receiving the comments.

If the Project is done in increments, the construction drawings for each increment should be complete and "stand alone." Cross referencing between increment plans will not be allowed.

The Special Provisions, which are part of the Request for Proposal, are the specifications governing the construction of the Project. The Proposer will be responsible for adding to or modifying the sections in Division 200 to 700 to suit the final design. If there are any additions or modifications, the Proposer will be responsible for submitting a compilation of RFP Special Provisions, Proposal, Contract and Bond and those changes with the appropriate submittal.

HDOT will not pay claims for any item that HDOT may have reviewed in the Proposer's submittals, that may have contained design errors or omissions, changes, scheduling conflicts, improper material, or other conflicting information that HDOT did not comment on or accept in previous submittals.

1) Submittal Format Submit CAD files for construction drawings in Microstation V8.0 or AutoCAD 2009 using the Protocol for Line Weight, Color, Level, Size, Grid Reference, Standard Units, Fonts, and Symbology for Microstation Produced Contract Plans ("State Drafting Protocol"), dated December 1999 on CD-ROM or DVD. CAD files are required for Final Submittal Only.

a. All other electronic files should be usable in Microsoft Word 2003 and Microsoft Excel 2003 on CD-ROM or DVD with the exception of the schedules in item b below.

b. Submit Design and Construction schedules in multicolor. Schedules should be produced using Primavera P6 professional Project Management or alternative software accepted by HDOT. Critical path should be indicated in red. Schedules should conform to requirements in Section 108 of the Standard Specifications.

c. Print hardcopies on 20 pound bond and bind.

d. Detailed cost estimates should follow HDOT's format used for Federal Aid projects.

e. Plot tracings on vellums (20 lb) or alternative media approved by HDOT.

2) Copies per Submittal to HDOT and FHWA

a. Submit five copies of licensed engineer stamped full size construction drawing sheets and 20 copies of licensed engineer stamped half-size construction drawings,

b. Five sets of licensed engineer stamped calculations,

c. Five copies of permit applications and fully processed permits,

d. 12 sets of design reports,

e. 12 sets of detailed cost estimates,

f. 12 sets of special provisions specifications,

g. 12 sets of legible Design and Construction schedule plots on construction drawing size (or larger) sheets, and,

h. CD-ROM or DVD containing CAD and other electronic files.

The Proposer will be responsible for making the necessary submittals to other government agencies and utility companies and secure the required acceptances independent of HDOT's review and acceptance.

3. Design Submittal and Review by HDOT and FHWA

HDOT and FHWA will review all scheduled submittals within 30 calendar days after HDOT notifies the Proposer in writing that a complete submittal was received as determined by HDOT. In the event a resubmittal is required due to incompleteness or non-conformance to HDOT's requirements as determined by HDOT, HDOT will be afforded an additional 30 calendar days to review any resubmittals. The Project's completion time will not be extended due to any review time required by HDOT for resubmittals due to incompleteness or non-conformance to HDOT's requirements. Scheduled submittals shall be as follows:

a. 50% Design Submittal: Develop conceptual plans necessary to clearly document the complete scope of improvements and to allow the Proposer to determine the permitting, plan acceptances, and construction parcels necessary to accomplish the work. This may include, but may not be limited to:

i. Proposer's Implementation Plan,

ii. Prefinal Structural Design Report,

iii. Prefinal Drainage Report,

iv. Site specific best management plan (BMP), and details,

v. Prefinal Geotechnical Report, as required,

vi. Landscape Maintenance Specifications,

vii. Pavement Justification Report,

viii. Basis for Design for elements not covered by a specific report,

ix. Conceptual construction drawings for all of the highway improvements, temporary construction including traffic control plans,

x. Request for Utility Agreement, Utility Relocation plan(s) and estimate(s),

xi. Highway lighting and voltage drop calculations,

xii. Construction parcel requirements,

xiii. Log of submittals made to other government agencies and utility companies and status of coordination and approvals,

xiv. Log of permit applications to be made in conjunction with the work proposed and copies of draft permit applications,

xv. The Progress schedules shall be prepared in accordance with Section 108.06-Progress Schedules of the Standard Specifications and any activities including non-construction activities with durations exceeding one month shall be broken into smaller sub-activities,

xvi. Schedule and copies of public announcements, in coordination with HDOT,

xvii. New special provisions section (Division 200-700), as applicable,

xviii. Quality Control and Assurance Plan,

xix. Operational and Maintenance Plan and detail breakdown of estimated O&M costs,

xx. Detailed breakdown of contract payment items with schedule of values and theoretical quantities, broken down by increments and in smaller more measurable units,

xxi. Design Exceptions, as necessary,

xxii. Prefinal Traffic Control Plan,

xxiii. Prefinal Safety Plan,

xxiv. Prefinal Permanent Best Management Practice Report,

xxv. Any ATC submittals as needed,

b. 100% Design Submittal (Final Design): Develop all final plans and any documentation required (i.e. permitting, etc.) for construction of the proposed improvements. This may include, but may not be limited to:

i. Design and construction phasing schedule (updated as necessary),

ii. Construction drawings,

iii. Finalized calculations,

iv. Finalized cost estimate (including Operation & Maintenance costs),

v. Finalized Geotechnical Report,

vi. Finalized Drainage Report,

vii. Compilation of RFP Special Provisions, Proposal, Contract and Bond and accepted additions and modifications to Division 200 to 700,

viii. Completed "Permanent BMP Consideration Checklist and Project Record",

ix. Finalized "Request for Utility Agreement" document,

x. Finalized Easement documentation, and,

xi. Tabulation of how each comment from the 50% submittal was addressed,

xii. CAD files for construction drawings,

xiii. Finalized Design Exceptions,

xiv. Finalized Traffic Control Plan,

xv. Finalized Safety Plan,

xvi. Final Permanent Best Management Practice Report,

xvii. Finalized ATC submittals,

c. End of Job Design Submittal. At the completion of the construction work, furnish metes and bounds description of the utility corridor for power and communication cables, as required; as-built vellum drawings prepared within 90 calendar days of the completion of construction work in accordance with the *Hawaii Standard Specifications for Road and Bridge Construction* Section 108.13(B) (2) As-Built Drawing and with the State Drafting Protocol, and any other submittals to complete the design and construction of the Project.

I. CODES AND DESIGN STANDARDS

All permanent and temporary features of the project should be designed and constructed according to the specified codes and guidelines and as amended. Other Codes, Design Standards, or Rules and Regulations not listed may also apply to the Project and it will be the sole responsibility of the Proposer to adhere to the appropriate documents. See the list of referenced standards in Section II.B.14.

J. CONSTRUCTION WORK DURING DESIGN

1) If HDOT determines that the construction drawings and other design documents satisfactorily address all comments related to utilities, drainage, access, and archaeology and traffic control, HDOT may, at its sole discretion, authorize the Proposer in writing to start construction on utility relocations, mass grading, and installation of traffic control/traffic detours providing the Proposer has:

   a. Satisfactorily completed the 50% design plans, including horizontal and vertical alignment for the highway and intersections,

   b. Submitted copies of approved applicable permits to HDOT prior to start of any construction work,

   c. Placed all site-specific Best Management Practice measures,

   d. Obtained written approval from all utility companies,

   e. Obtained written approval from the County of Kauai,

   f. Established the State Field Office, State Laboratory and their utility connections, and

g. Submitted to HDOT and obtained written acceptance of all proposed materials to be used at this stage,

h. Hold public meeting to apprise the public of construction and anticipated impacts, and project status.

2) If HDOT determines that the construction drawings and other design documents satisfactorily address all comments related to the bridge and wall foundations, HDOT may, at its sole discretion, authorize the Proposer in writing, to start construction on that portion of work, provided that the Proposer has:

a. Submitted copies of approved applicable permits to HDOT prior to start of any construction work for this and latter phases of work,

b. Placed all site-specific Best Management Practice measures,

c. Obtained written approval from all utility companies,

d. Obtained written approval from the County of Kauai,

e. Submitted to HDOT and obtained written acceptance of all proposed materials to be used,

f. Submitted to HDOT and obtain acceptance of shop drawing and other document that are required to be submitted in the Standard Specifications prior to construction work starting.

g. Held public meeting to apprise the public of construction and anticipated impacts, and project status.

The Proposer will be responsible for constructing the improvements in accordance with the engineered construction drawings and specifications. The Proposer will be responsible for providing licensed engineer stamped and signed revised drawings and applicable calculations to HDOT for all revisions or deviations from the accepted construction drawings for review and acceptance prior to performing the work.

The Proposer will be responsible for providing to HDOT, copies of all communications, e.g., letters, memorandums, e-mails, etc. that pertain to any corrections or clarifications to the shop drawings and specifications.

K. INSURANCE AND BOND REQUIREMENTS

The Proposer will be responsible for maintaining throughout the term of the Project for any design and construction work within State Right-of-Way and construction parcels, a policy or policies of general liability and automobile liability insurance with an insurance company licensed to do business in the State of Hawaii, naming County of Kauai and the State of Hawaii as additionally insured, with a limit of Excess Liability of not less than Two million dollars ($2,000,000) for each occurrence and covering (i) all of the Proposer's operations, (ii) operations of the Proposer's subcontractors, (iii) Proposer's completed operations, (iv) motor vehicles of every description for which the Proposer is legally responsible, and (v) pedestrian and other non-motor vehicular traffic of every description for which the Proposer is legally responsible during the Project construction.

Minimum coverage for Personal Injury and Property Damage Liability and Automobile Bodily Injury and Property Damage Liability shall be as specified in Section 103 of the Special Provisions.

The Proposer will provide three copies of a certificate of insurance to HDOT in advance of any activities conducted on HDOT or County of Kauai property.

The Proposer will be responsible for having in force a Builders Risk insurance policy from the date of the Notice to Proceed through the day of final acceptance of the project.

"(1) **Builder's Risk:**

(a) New Buildings or Bridges. The Proposer will be responsible for taking out a policy of builder's risk insurance, for the full replacement value of the insurable improvements of the project from a company licensed to do business in the State of Hawaii, covering all work, labor and materials furnished by such Proposer and all its team members, subcontractors against loss by fire, windstorm, lightning, explosion and other perils covered by the standard Extended Coverage Endorsement, and vandalism and malicious mischief.

The State of Hawaii, its officers and employees, shall be as additional insured under these coverages.

(b) Building or Bridge Renovation Contract. The Proposer will be responsible for taking out a policy of builder's risk insurance in the amount equivalent to the contract amount, covering all work, labor and materials furnished by such Proposer and all its team members, subcontractors against loss by fire, windstorm, lightning, explosion and other perils covered by the Extended Coverage Endorsement, and vandalism and malicious mischief.

The State of Hawaii, its officers and employees, will be as additional

insured under these coverages.

L. PRECEDENCE OF CONTRACT DOCUMENTS

The contract documents are complimentary. Any requirement occurring in one document is as binding as though occurring in all. A stricter requirement prevails over any less strict requirement. The stricter requirement will be the requirement that provides the greater product life, durability, strength and function.

The Proposer will be responsible for carefully studying and comparing the contract documents with each other, with field conditions and with the information furnished by the State and should immediately report to the Engineer errors, conflicts, ambiguities, inconsistencies, or omissions discovered. If an item is not sufficiently detailed or explained in the contract documents, the Proposer should report to the HDOT immediately and request HDOT's clarification and interpretation. The HDOT will issue a clarification or interpretation that is consistent with the intent of and reasonably inferred from the contract documents.

M. PLANS, SPECIFICATIONS, AND ATTACHMENTS

In addition to the items covered in this Technical Provisions document and other CODES AND DESIGN STANDARDS referenced in Section II.B, the following is a listing of Project Plans and Specifications that should be used as applicable for the preparation of Construction Drawings, Project Specifications, and Estimates.

Plans Sheet	Description
	Typical Section – Utilizing Existing Roadway (3 sheets)
	Figure 6 – Short-Term Intersection Configuration
	Right Of Way Maps (7 sheets)
All applicable sheets	State of Hawaii, Department of Transportation Highways Division STANDARD PLANS, 2008, and subsequent revisions. The Proposer shall include the latest revisions from the HDOT Project Manager at project award.

Special Provisions for HDOT/Federal Projects:

The Proposer shall use applicable portions of the DOT/Federal projects Special Provisions for 2005 Standard Specifications found at http://hawaii.gov/dot/highways/specifications2005/

provisions/projectspprov/sp_fed.htm/.

See the table of contents in this document for all applicable specification sections included in the special provisions. All other applicable 200 to 700 Sections should have the measurement and payment subsections modified to reflect lump-sum payment for all items except for force-account items listed in the attached Proposal. Latest versions of the specifications should be used from the HDOT's websites: http://hawaii.gov/dot/highways/specifications2005/specifications/spectble.htm as modified by standard special provisions for 2005 Standard Specifications for DOT/ Federal projects.

N. DESIGN-BUILD QC PLAN REQUIREMENTS

1) Description

For construction work, the Proposer does QC, but not QA. This section is for both Design and Construction. The Proposer will be responsible for preparation of a QC Plan acceptable to the HDOT. The Proposer will not be allowed to commence with design until their QC Plan has been accepted in writing by HDOT.

The plan shall detail how the Proposer's Design Team shall provide quality control (QC) and allow HDOT to perform quality assurance (QA) for all the design elements of the project and coordinate design review with HDOT or other affected agencies.

The Proposer's QC Plan should include a description of the quality control organization, including the number of full-time equivalent employees with specific Quality Control responsibilities and a chart showing lines of authority and reporting responsibilities. The persons and organizations performing Quality Control functions should have sufficient authority and organizational autonomy to identify quality problems, and to initiate, recommend, and verify implementation of solutions should a problem occur. Persons performing design Quality Control functions should be at an organizational level which ensures that they are not influenced by the impact of implementation of Quality Control measures on the Project schedule, performance or cost. To ensure the above organizational independence, at the very least, the QC organization should be established as a separate entity operating under a separate profit center from the design and production organization. All key personnel performing Quality Control functions should be exclusively designated to such and should not be assigned to perform other duties. The Proposer's Design Team's QC plan should describe in detail how, at the very least, the QC organization should be established as a separate

entity and operate under a separate profit center from the design and production organization. Also, it should describe in detail how it will accomplish the ability of QC organization not to be influenced by the Project schedule, performance or cost.

Partnering should be considered an integral part of the Design Quality Control program. Utilize as a guide Section 692 Partnering of the Standard Specifications. A partnering agreement is recommended to handle disputes. In addition, a separate procedure with escalation ladder for issue resolution should be developed and agreed to by the partnering participants. The procedure may include, but is not limited to, the following elements.

a. Disputes should be delegated to the lowest appropriate level of authority on the project team to resolve within a specified timeframe.

b. A timeframe for each level of authority should be established before the project begins for a list of typical disputes that could occur on a project.

c. If the dispute is not resolved to the satisfaction of both parties within the specified timeframe, the dispute would be automatically escalated to the next level of authority on the project team.

d. If left unresolved, the process would then continue to escalate to the highest level of authority where a final resolution would be arbitrated by an unbiased third party, whose selection would be agreed upon in advance as part of the QC Plan.

e. A written report describing the dispute, all subsequent actions, and final disposition of the dispute should be submitted to the project records.

f. If subsequent disputes arise on the same issue, the written report should be included as a resource during the resolution process. Disputes not resolved informally through the partnering process may be brought by either party to the Disputes Review Board.

2) Proposer's Design Team's QC Staff

At a minimum the Proposer's Design Team's QC staff should include the following:

a. Proposer's Design Team Quality System Manager

The Proposer's Design Team Quality System Manager is the individual with overall responsibility for development of and adherence to the Proposer's Design Team's QC Plan. This individual should be a Professional Engineer licensed by the State of Hawaii having a minimum of ten years supervisory experience in Portland cement and asphalt concrete roadways or bridge design or ten years supervisory experience in inspection or materials testing on highway transportation construction projects or a combination thereof.

b. Proposer's Design Team Design QC Manager

The Proposer's Design Team's Design QC manager is the individual with overall responsibility for the Design portion of the Design-Build QC Plan. This individual should have a minimum of five years supervisory experience in Portland cement and asphalt concrete roadway design and construction on highway transportation construction projects.

3) Design QC Plan Requirements

a. General

The quality control and quality assurance procedures for each type of Design Document and Construction Document should be organized by engineering discipline (such as structural, civil and utilities). These procedures should specify measures to be taken by the Proposer's Design Team:

(1) to ensure that appropriate quality standards are specified and included in the Design Documents and Construction Documents and to control deviations from such standards, it being understood and agreed that no deviations from such standards should be made unless they have been previously approved by HDOT at HDOT's sole discretion, and
(2) for the selection of suitability of materials, and elements of the Work that are included in the Project.

The Design QC Plan should include the following:

- Quality control procedures for preparing and checking all plans, calculations, drawings and other items submitted, to ensure that they are independently checked and back-checked in accordance with generally accepted architectural and engineering practices, by experienced architects and engineers, respectively who are experienced in the type of design and construction methods to be

used. The originator, checker and back-checker should be clearly identified on the face of all submittals. Specific procedures for verifying computer programs used should also be included. Plans, reports and other documents shall be stamped, signed and dated by the responsible Hawaii registered architect or engineer where required under the Contract Provisions, under generally accepted architectural or engineering practices or by applicable laws.

- The plan should set forth the level, frequency and methods of review of the adequacy of the design of the Project, including the methods by which all final Design Documents and Construction Documents shall be independently reviewed and verified for adequacy of design and back-checked in accordance with generally accepted design and engineering practice by architects and engineers experienced in the type design and construction methods to be used and who have not been involved with the preparation of such Documents.

- The plan should set forth the procedures for coordinating work performed by different persons in the same area, or in adjacent areas or in related tasks to ensure that conflicts, omissions or misalignments do not occur between drawings or between the drawings and the specifications, and to coordinate the review, approval, release, distribution and revision of documents involving such persons.

- The plan should identify those elements of the Contract Provisions, Design Documents or Construction Documents, if any, requiring special Quality Control attention or emphasis, including applicable standards of quality or practice to be met, level of completeness and/or extent of detailing required or on-site training of the Proposer's staff and HDOT.

The plan should identify in a table the discipline, the name, qualifications, duties, responsibilities and authorities for all persons proposed to be responsible for QC.

- The plan should state any requirement for, and the name, qualifications, duties, responsibilities and authorities of, external technical experts necessary to ensure the quality of the design of the Project, the anticipated timing of use of, the expected availability of, and any coordination required with respect to any such experts.

- The plan should describe the required design quality control and assurance functions, including scheduled activities for Design QC

identifying the Design Documents and Construction Documents to be delivered to HDOT for its review at each stage of the design or work phase of the Project.

The Proposer's Design Team will be responsible for maintaining all documents for the duration of the Contract and shall be organized, indexed and delivered to HDOT

(1) upon Final Acceptance unless required to be delivered earlier pursuant to the Contract Provisions, or
(2) even if incomplete, within seven days of receipt of request from HDOT.

These documents should include, but not be limited to, the following items: design criteria, reports and notes, calculations, drawings, schematics, supporting materials, etc.

b. HDOT/County Review of Design Work

HDOT will not officially accept Design Work after initial acceptance of the Proposer's Design Team's Proposal, except as noted for requests for deviations from the RFP, right of way plans, and permit documents. HDOT will reach agreement with the Proposer's Design Team on dates and times for design reviews, and will comment on Design Work, but will not require comment responses unless specifically requested or if work is deemed to be outside the provisions of the contract or has omissions. If HDOT at any time determines that the Design Work is not conforming to Contract or plan requirements, HDOT reserves the right to suspend work for cause until resolution of the issue.

Proposers Design Team will be responsible for submitting to the County for all applicable reviews and shall be responsible for obtaining approvals to satisfy County requirements.

All submissions should be done in a timely manner so that the review and acceptance process will not cause a delay. No extension of time will be granted for review delays.

c. Design Quality Review

Prior to the release of final Design Documents and Construction Documents, the Proposer's Design Team will be responsible for completing reviews with architects and engineers experienced in the appropriate disciplines(s) and type of work and design. The review should verify that the Design Documents and Construction Documents were

prepared in such a manner as to ensure that they will be acceptable to HDOT, as well as the Proposer. The criteria used in such review should include:

i. conformity of the final Design Documents and Construction Documents with the Contract Provisions,

ii. assurance that all materials, equipment and elements of the Work provided for in such documents which will be incorporated into the Project have been provided for and designed to perform satisfactorily for the purpose intended,

iii. the appearance, organization, technical and grammatical accuracy of such documents,

iv. verification that such documents have been checked and signed by the drafter, designer, checker and reviewers,

v. where required under the contract, generally accepted architectural or engineering practices or applicable law, verification that such documents have been stamped, signed and dated by the responsible Hawaii registered civil engineer or architect; and,

vi. assurance that such documents fully provide for constructability, compatibility of materials and conformity to acceptance criteria for inspections and tests as provided in the Contract.

d. Plan Approvals by HDOT

Permit drawings and utility construction drawings should be developed to the appropriate design standards as specified. HDOT or the appropriate agency will approve these drawings after a thorough review for completeness and conformance to standards. HDOT will return all non-conforming drawings to the Proposer's Design Team for corrective action.

i. Plans Distribution

The Proposer's Design Team will be responsible for providing to HDOT the following documents, with all design changes and revisions shown, upon their being stamped "Released for Construction". These documents will be used by HDOT to facilitate their administration and inspection responsibilities:

- All Design and Construction Documents
- All shop or fabrication drawings which have been approved by the Proposer's Design Team
- All forming plans which have been approved by the Proposer's Design Team All traffic control plans which have been approved by the Proposer's Design Team

e. QC of Design Changes

Changes, including field changes, in the design of the project or any portion thereof as shown on the Design and Construction Documents, should be subject to design QC measures and procedures commensurate with those applied to the original design of the portion of the Project being changed. Furthermore, all changes described in this Section should be approved in writing by the organization that performed the original design, with the written acceptance of HDOT. Any changes affecting the basic configuration of the Project will also be subject to the requirements contained in this Section. Documents containing design and/or field changes should be distributed according to the requirements set forth in the section entitled "Plans Distribution".

f. Submittals for Review by HDOT

Design and Construction Documents relating to the following construction phases should be submitted to HDOT for review. HDOT acceptance of these submittals is not required and will not be provided. Any review comments made by HDOT will be provided, in writing, to the Proposer's Design Team within 30 calendar days, or as agreed to in writing. The following table indicates the submittals for review.

The Proposer's Design Team will be fully responsible for the schedule impacts and costs of revisions arising from HDOT's review of the Construction Documents for consistency with the requirements of the Contract Provisions and caused by the Proposer's Design Team's non-compliance with Contract requirements.

Construction Phase	Documents
Environmental	All required permits
Earthwork	Roadway Geometrics (Plan and Profile) Channelization Plan Intersection Plan Traffic Control Plan Erosion Control Plan Clearing & Grubbing Roadway Quantities Geotechnical Report Construction Specifications
Geotechnical	Draft Geotechnical Report Final Geotechnical Report
Surfacing and Pavements	Pavement Justification Report Roadway Geometrics Roadway Sections Superelevation diagrams Paving Quantities Paving Plan Construction Specifications
Drainage Structures & Hydraulics	Hydraulics Report Design calculations Drainage Plans & Profiles Drawing & Special Details Construction Specifications
Landscaping	Planting Plan Construction Specifications
Safety and Traffic Items	Phasing and Construction Sequence Report Sign Inventory Traffic Markings and Delineation Guardrail Highway Lighting Permanent Signing Transportation Management Plan Work Zone Traffic Control Construction Specifications Traffic Study
Misc. Construction	Plans and Plan Details Construction Specifications

4) Construction QC Plan Requirements

a. General

The plan should at a minimum address the following:

i. Describe the Proposer's quality control organization, including the number of full-time equivalent employees with specific Quality Control responsibilities and including a chart showing lines of authority and reporting responsibilities;

ii. List by discipline the name, qualifications, duties, responsibilities and authorities for all persons proposed to be responsible for Construction Quality Control;

iii. Project progress schedule;

iv. Submittal schedule;

v. Inspection requirements;

vi. Quality control sampling, testing, and analysis plan with frequencies, location and methods;

vii. Identify the laboratory(s) to be used;

viii. Specify documentation for QC activities, including control charts;

ix. Contract requirements for corrective action when quality control and/or acceptance results indicate nonconformance;

x. Communication procedures with HDOT inspection staff

The Contract Provisions may also require specific quality control measures for certain materials. When so required, the Proposer will be responsible for providing all personnel, equipment, supplies, and facilities necessary to perform quality control, obtain samples, and perform tests required in the Contract Provisions.

b. Proposer's Responsibilities

The Proposer will be responsible for the quality of construction and materials incorporated into the project. The Proposer's Quality Control measures are to insure that operational techniques and activities provide material of acceptable quality. Proposer sampling and testing should be performed to control the processes and determine the degree of material compliance with the Contract Provisions. The plan should detail how the Proposer will provide quality control (QC) for all construction elements of the project, e.g., perform tests for quality control, provide inspection, and exercise management control to ensure that work conforms to the contract requirements. The plan should also detail how the Proposer will assist HDOT with their independent QA program

c. Proposer's Construction QC Manager

The Proposer's Construction QC manager is the individual with overall responsibility for the Construction portion of the Proposer's Design Team QC Plan. This individual will be responsible for implementing, monitoring and, as necessary, adjusting the processes to assure acceptable quality. This individual should have a minimum of five years supervisory experience in inspection or documentation or testing materials or combination thereof on highway transportation construction projects, and should meet one of the following additional requirements:

- A Professional Engineer registered in the State of Hawaii with at least two years of highway materials and/or inspection experience acceptable to the State, or

- A Bachelor of Science Degree in Civil Engineering, or Construction with at least six years of highway materials and/or inspection experience acceptable to the State.

The Construction QC Manager or his designated representative should be available on the project when work is being done by the Proposer's Design Team, or any of its subcontractors or agents.

d. Quality Testing Supervisor

The Quality Testing Supervisor may be an employee of the Proposer's laboratory, and should be on the site during testing. Disclose resume of the proposed individual as part of the RFP-selection process. The Quality Testing Supervisor should meet one of the following requirements:

i. A Professional Engineer, registered in the State of Hawaii, with at least one year of highway materials testing experience acceptable to the State, or
ii. A Bachelor of Science Degree in Civil Engineering or related field acceptable to HDOT and at least three years of highway materials testing experience acceptable to the State, or
iii. An individual with at least eight years of highway materials testing and construction experience acceptable to the State.

e. Inspection Technicians

The Proposer's QC field and lab Inspection Technicians should have a minimum of three years roadway construction inspection experience in the work activity being inspected. All field technicians should be HDOT certified and all labs must be AMRL or CCRL - approved in the test methods to be performed. All lab personnel should have training records in the AMRL folders for all tests to be performed by the testing firm or be witnessed by HDOT during all testing.

3) The Proposer's Part in HDOT QA Program

As stated previously only HDOT is allowed to perform QA testing for acceptance and the Proposer's QA portion of the team is to provide aid, assistance and information so HDOT will be able to conduct their QA program. The Proposer's QA Team will be responsible for supplying material testing equipment for HDOT's use. This includes all necessary materials to test portland concrete cylinders and beams, with all needed molds, caps and other attachments and devices to perform the tests including cabinets of sufficient size for initial and final curing of all specimens to be tested. Provide equipment to test aggregate and soil. Provide a FEDEX or UPS or equal account so that other material samples may be sent directly to HWY-L on Oahu for testing. Pickup of material samples to be sent to HWY-L for testing will be at Kauai District Office. The Proposer will be responsible for supplying all packing material required for material samples to be sent to HWY-L. The testing

equipment may be used for other HDOT projects if HDOT determines the need. The Proposer will be responsible for calibrating all testing equipment yearly. The Proposer should provide help to HDOT as requested. The Proposer should also be responsible for disposing of all waste material created due to the testing of material. Testing Equipment should be installed at HWY-K's testing laboratory. At the end of the project or upon receiving direction from HDOT, equipment should be removed and the area restored. This testing equipment should be installed and operational before construction work starts. Submit equipment and material list as part of the Proposer's QC plan. Should an AMRL or a CCRL qualified facility not be available on Kauai and the testing equipment to do the test is available the Proposer may use the supplied testing equipment during normal business hours.

a. HDOT's Responsibilities

Verification acceptance sampling and testing will be performed by HDOT to validate the Proposer's sampling and testing as well as the quality of the material produced. An Independent Assurance Program will also be conducted by HDOT to evaluate all sampling and testing used in the acceptance of materials. HDOT will sample and test materials following the guidelines of the minimum sampling of material as shown in Subsection 106A of the DOT/Federal projects Special Provisions for 2005 Standard Specifications. HDOT reserves the right to increase the sampling rate from the amounts listed at no additional cost as necessary. The sampling of material (time, unit, location) and testing for verification purposes needs to be controlled by HDOT or its agent. In addition, all samples that will be used for verification acceptance testing by HDOT will be stored and transported to the testing laboratory by HDOT or its agent. Samples not meeting these requirements will not be used for HDOT's QA.

The Proposer will be responsible for providing a schedule for material testing to be conducted by HDOT as required by these documents. The schedule should state a suggested response time. The response times will be reviewed by HDOT. Verification acceptance testing as well as inspection is for the benefit of HDOT and the Proposer's QC will be responsible for ensuring the quality of the work and material meets contract requirements.

HDOT will be solely responsible for determining the acceptability of materials incorporated into the project. Disputes in the acceptability of a material will be addressed in accordance with HDOT's current "Quality Assurance Manual for Materials, Highways Division, Materials Testing and Research Branch" Dated October 2001.

b. Activities Meetings

Prior to the start of any work activity, the Proposer will be responsible for holding an Activity Meeting to ensure that all project personnel have a thorough understanding of work to be done. Work activities generally correspond to the sections of the Standard Specifications, such as clearing and grubbing, earthwork, etc. or a definable feature of work such as a pre-paving conference. The Activity Meeting should include discussions related to what will be accomplished, by whom it will be performed, and where, when, and how the work will be done. The Activity Meetings are to ensure that all parties have the same understanding of the design intent, have the appropriate plans, specifications and any special details, and are aware of safety regulations and procedures that need to be followed. At this time the QC inspection checklist for this activity should be reviewed. Activity Meetings should be scheduled several weeks in advance of the actual work beginning on an activity to allow for additional preparation if necessary. The Activity Meetings should be planned and conducted by the Proposer's Construction QC Manager. Minutes of the meeting should be taken to document any clarifications and understandings related to the construction of the item that are not documented elsewhere. Activity Meetings are classified as activity milestones and should be identified in the Proposer's QC plan.

c. Proposer Sampling and Testing

Proposer field and laboratory sampling and testing should be performed as specified in the Standard Specifications and HDOT's "Quality Assurance Manual for Materials, Highways Division, Materials Testing and Research Branch" Dated October 2001, and any updated addendums, and should also comply with the HDOT Materials Quality Control Manual. Sampling and testing should be performed by qualified testing personnel defined in this specification and should be performed in a laboratory that is AMRL or CCRL-certified in the test method they will be performing for the project. Representative samples shall be randomly obtained by the Proposer at specified frequencies and locations and as the material properties change. The Proposer shall furnish copies of all test results to HDOT within 24 hours of acquiring the sample or the next day of business.

The Proposer should provide to HDOT a testing plan for each material. The testing plan should be submitted prior to the beginning of production or placement of the material. The Proposer should maintain a material summary of quantities of each specific material incorporated into the work with dates and results of quality control testing associated with the

material usage and compliance to contract requirements. This Summary should be made available to HDOT when requested. All of the testing equipment should be calibrated by an independent certified calibration company within 1 year previously and be continually checked with verification tests as required by AMRL. Prior to being approved for testing, the equipment proposed for use needs to be listed and should be inspected by HDOT testing lab personnel prior to use. The concrete testing apparatus should have either neoprene caps or sulfur caps that fit the cylinder ends.

All laboratory soil tests and field density tests shall be performed by the Proposer's Geotechnical Engineering firm.
All concrete tests should be conducted to failure and data should include the strain rate.

The Proposer is responsible for providing HDOT a complete acceptance and testing plan for all foundation types. This plan shall be submitted and approved by the HDOT before any work commences. HDOT shall be allowed 20 working days to review the plan.

d. Material Certification

When the project is completed, the Proposer will be responsible for completing a thorough final review of the documentations of material compliance to Contract requirements by verifying that all test reports, inspection reports and other pertinent information and reports have been recorded and that such documents contain the required information.

The Proposer will be responsible for preparing and submitting a letter of material certification to the Engineer. The letter should include the following statement:

This is to certify that:

> The results of quality control tests indicate that the materials incorporated into the construction work and construction operations, controlled by sampling and testing were in conformity to the Contract requirements. Explanations for exceptions to the Contract requirements are as follows:

The material certification letter should list any exceptions and how they were resolved, which includes any explanation for justification of material compliance or usage.

4) Quality Control Inspections

a. Coordination and Notification

The Proposer's Construction QC manager should designate a primary point of contact to notify HDOT of their construction activity schedule in a timely manner so that HDOT may conduct an inspection if it chooses. An alternate individual may be designated to function in this capacity in his/her absence. HDOT will also designate one individual to handle responses to the Proposer.

b. Quality Control Inspection

The QC Plan should contain inspection plans for each construction work item included in the project whether performed by the Proposer or a subcontractor or vendor. Work items may be definable features or items of work defined by HDOT's Hawaii Standard Specifications for Road and Bridge Construction, 2005.

c. Work Activities

The Proposer should provide inspection for all work activities for conformance with the construction requirements in the Contract Provisions.

d. Inspection Guidelines

Inspections should be performed during all phases of the project from start to completion in order to assure that the work meets, and is being performed in accordance with the Contract Provisions, plans, specifications, approved submittals, and any other requirements.

e. Inspection Documentation

Each of the Proposer's QC inspectors should summarize their daily inspections, test and material sampling activities in a daily report. Copies of the inspector's diaries should be provided to HDOT daily.

O. PUBLIC RELATIONS AND PUBLIC COMPLAINTS

HDOT's goal is to minimize the emotional and physical impact on highway users, businesses and neighborhoods that abut, or are serviced by, the highways that comprise this project. It will be the responsibility of the Proposer to provide the following services for the well-being of the affected highway users, residents, and businesses.

The Proposer will be responsible for providing a public information specialist responsible for managing public information and public involvement activities outlined below. This staff member should be experienced in all aspects of providing the public with information on public works projects, including newsletter writing, design and production, direct mailing, telecommunications, news release writing, webpage management and public speaking. This public information specialist will be expected to work with HDOT staff in a team effort to help promote public satisfaction with the project. All information released should be submitted in advance by HDOT for review and acceptance.

The public information specialist should have "real-time" access to all project details that may be relevant to the public, public agencies, emergency service providers, businesses, and other interested groups. The public information specialist is expected to provide that "real-time" information to HDOT's public information staff located at the Highways Division office at (808) 587-2160, or by email at DOTPAO@hawaii.gov on a weekly basis at a minimum, and more frequently if deemed necessary by HDOT. The public information specialist is also expected to maintain a 24-hour hotline to handle public inquiries and complaints.

Although media interviews will mainly be the responsibility of HDOT, the Proposer or the public information specialist may be asked to provide the media with an interview or other information on short notice. In such a case, the Proposer or the public information specialist will be responsible for delivering a message consistent with HDOT's message. The Proposer or designee should inform and coordinate this activity with HDOT prior to the interview.

In addition, all written, audio and video materials produced by the Proposer's staff for public dissemination should comply with HDOT's standards. A copy of all such materials should be provided to HDOT for preapproval at least seven (7) calendar days prior to scheduled distribution.

The goal of written, audio or video materials should be to increase stakeholder satisfaction of the project by educating and informing the public about the project, including long-term, short-term and daily disruptions or changes to traffic conditions, project benefits, project staging when appropriate, and other relevant issues.

At least three weeks before construction activities begin, HDOT's public information staff will meet with the Proposer and public information specialist to review the following requirements. Give HDOT three weeks' notice of the meeting.

1) Public Meetings

The Proposer will be responsible for having well-trained and informed speakers, familiar with local issues, available for public meetings, community and civic organizations, neighborhoods associations, private businesses, and other stakeholders.

The Proposer will be responsible for organizing, preparing, attending, and conducting, a minimum of 4 Public Informational Meetings (PIM). Two PIMs will be conducted during design to provide project status and information to the community. A third PIM will be conducted just prior to construction to advise the community of temporary construction impacts and schedule. A fourth PIM will be conducted after the start of construction to address any public complaints received by HDOT or the Proposer.

If required and as solely determined by HDOT, any additional PIMs conducted by the Proposer may be considered as extra work and compensable by change order. HDOT will not pay for the cost of public meeting(s) associated with the permits separately, if required. HDOT will consider the cost of the public meeting(s) associated with the permits as included in the contract prices for the various contract pay items.

For each meeting, the Proposer will be responsible for providing technical assistance, data, and information necessary to produce display boards, printed materials, video graphics, and other forms of information necessary for dialogue with the public per NCHRP 407. The Proposer will also be responsible for providing the necessary staffing and video equipment to present the information. The Proposer should find a suitable venue (non-government place, ADA accessible) to conduct the PIM and make arrangements to reserve the meeting facility. The Proposer shall make accommodations for disabled or disadvantaged people. The Proposer will be responsible for submitting a newspaper notice to HDOT for review and acceptance, and after obtaining HDOT's acceptance, the Proposer will publish the notice in The Garden Island News and the Honolulu Star Advertiser. The notice should be published no later than 14 calendar days prior to the PIM date.

In addition to the general public attending the PIM, the Proposer should at a minimum, contact the following organizations:

a. State Department of Land and Natural Resources, CWRM

b. State Historic Preservation Division, SHPD

c. Office of Hawaiian Affairs, OHA

d. Kauai Island Burial Council,

e. Kauai Visitors Bureau,

f. Kauai Historic Preservation Review Commission,

g. Lihue Business Association,

h. Hawaiian Telcom,

i. Kauai Police Department,

j. Kauai Fire Department,

k. Owners/lessees within 500-feet,

l. Kauai Department of Water,

m. Kauai Department of Public Works,

n. Kauai Island Utility Cooperative,

o. Grove Farm Properties, Inc.,

p. Kauai Community College,

q. Kauai Humane Society,

r. Kauai Outdoor Circle,

s. Lihue Public Cemetery Association,

t. Mayor, Kauai County,

u. Council Members of Kauai County Council

v. Legislative delegation from Kauai: Senator Ronald Kouchi, Representative Danette Morikawa, Representative James Tokioka, Representative Derick Kawakami

The Proposer will be responsible for preparing a list of attendees and meeting minutes. The meeting minutes should accurately record all discussions in the PIM and identify all action items and responsible parties for each action item. Twenty (20) copies of the list of attendees and meeting minutes should be provided to HDOT within seven calendar days from the PIM date.

2) Bi-Weekly Progress Reports

The Proposer will be responsible for providing updates every two weeks to the HDOT Project Manager. That information should specify details of the following period's closures, detours, general project status and other information relevant to the motoring public.

The proposer will be responsible for providing the HDOT Project Manager a summary of public inquiries, complaints and comments every two weeks that includes general categories and trends of comments and an explanation of how the Proposer has responded to those comments.

3) Project Web Page

The Proposer will be responsible for developing and maintaining a project web page that will contain information listed below and in Section 697 of the DOT/Federal Special Provisions:

Information	Update Frequency
Project Work Scope	Beginning of job
Project Site Map	Beginning of job
Proposer call-in number for complaints	Beginning of job
Progress Schedule/ Milestones	Beginning of job and when schedule is adjusted. Schedule changes must be approved by HDOT prior to posting.

Information	Update Frequency
Email list serve	Beginning of job
Contacts and emails or Physical Address	Beginning of job

Work progress narrative with sketches	every 2 weeks
Scheduled Road/Lane Closures	14 calendar days prior to closure changes. HDOT shall be provided 14 calendar days notice for any road/lane closures or changes to road/lane closures.

HDOT may link this project web page to the Hawaii DOT's website. The Proposer should include the web page address on a construction advisory sign that will be visible to the public in a location and format as directed by HDOT.

P. CONTRACT TIME

The Project Completion date is March 30, 2015. For any work beyond the established completion date, the Proposer will be subject to Liquidated Damages in accordance with Section 108.08 of the Special Provisions.

III. QUALIFICATIONS PROPOSAL

Each Proposer interested in being considered for this project is required to submit a Qualifications Proposal, limited to 100 pages, no later than the date and time specified in the Request for Proposals, at the Department of Transportation Contracts Office, 869 Punchbowl Street Honolulu, Hawaii 96813.

HDOT has scheduled a pre-qualifications proposal meeting for all interested Proposers at the time, date, and location specified in the Request for Proposals. At a minimum, representative(s) from the prime firms making up the Proposer should attend this meeting. The purpose of this meeting will be to present a summary of the information contained in the technical provisions related to the Project scope of work and guidelines, and to discuss the proposal, selection and award process. HDOT will give all attendees an opportunity to pose questions to HDOT. Meeting minutes will be taken and these minutes will be issued as an addendum before the qualifications proposals are due.

A. QUALIFICATIONS PROPOSAL ITEMS

The Qualification Proposal should contain the following:

1) Proposer, key subcontractors and key consultants' experience and qualifications relevant to the Project and to the Design Build process. Key personnel should include, but may not be limited to, Project Manager, Design Lead, Construction Lead, QC Manager, QC personnel, and Public Information Specialist. Documentation showing 2 years experience by

prime or sub-contractor in bridge construction including the use of volumetric concrete mixers and a minimum of 5,000 square feet of bridge construction all completed within the last 4 years.

2) Past performances on highway projects of similar scope. Provide a list of specific projects, owner, and client contracts. Indicate which projects, if any were design build.

3) Capacity to accomplish the work in the required time (Proposer's proposed staffing plan showing the organizational structure proposed to accomplish the management, design and permitting, construction, quality control, and administrative services).

4) Proposer's understanding of the project scope of work and the Proposer's proposed approach to accomplishing the work;

5) Draft Quality Control Plan, which at a minimum should provide an organizational chart identifying the personnel, the name of the laboratory(s), and the flow chart of the documentation that will be required to comply with the requirements of HDOT's Quality Assurance Manual for Materials, October 2001.

6) Demonstration of financial capability. This may include a certification or letter from a financial institution attesting that the Proposer is financially capable of undertaking the project. If balance sheets, consolidated statements of income or consolidated statements of cash flow are included, the Proposer shall enclose one copy of these documents in a separate sealed envelope marked "CONFIDENTIAL". The financial documents in the separate sealed envelope will not be counted towards the 100 page qualification proposal limitation.

Submit 10 hard copies of the Qualification Proposal in a bound volume on 8 ½" x 11" letter size paper. Drawings, charts, or exhibits may be of larger size up to 11" x 17" and optionally "Z" folded down to letter size. To facilitate HDOT's review, the Proposer should include a Table of Contents and tab each of the above six items clearly.

In addition to the items contained in the six categories above, a completed CONFLICT OF INTEREST (COI) DISCLOSURE FORM shall be included as a separate tabbed appendix to the Qualification Proposal. A blank form is provided after the Technical Provisions. All known potential conflicts of interest shall be disclosed in the COI Disclosure Form. The Proposer may include a conflict mitigation plan as described in the COI disclosure form. If the Proposer was aware of an organizational COI as defined in the COI form prior to award of the contract and did not disclose the conflict or potential COI to HDOT, HDOT may delay contract execution or rescind award, or may terminate

the contract for default if discovery is made after contract execution and the COI is not addressed. The separately sealed financial documents, COI forms and tabs will not count against the Qualification Proposal 100-page limitation.

The COI forms shall be used throughout the term of the contract to disclose any conflicts that may arise (i.e. new contract awards, replacement of subcontractors/subconsultants, etc.).

Submit a pdf copy of the Qualification Proposal, including the COI disclosure forms, on CD-ROM or DVD.

B. QUALIFICATIONS PROPOSAL EVALUATION CRITERIA

HDOT's Review Committee will review the Qualifications Proposal and a Qualifications Score will be based on the following criteria items tabulated below:

	CRITERIA ITEM	MAXIMUM POINTS	ACTUAL POINTS
1	Experience and qualifications of the Proposer's staff (engineers and construction members to be assigned to the Project), relevant to the Project and to the Design Build process.	30	
2	Past performance on highway projects of similar scope for public agencies or private industry. Provide a list of specific project titles, project owners, and current contacts. Indicate which projects were Design-Build.	20	
3	Capacity to accomplish the work by the required contract completion date (Proposer's proposed staffing plan showing the organizational structure proposed to accomplish the management, design and permitting, construction, quality control and administrative services.)	20	
4	Proposer's understanding of the project scope of work and the Proposer's proposed approach to accomplishing the work.	10	
5	Draft Quality Control Plan, which at a minimum should include an organizational chart identifying the personnel, and the flow chart of the documentation that will be required to comply with the requirements of HDOT's Quality Assurance Manual for Materials, October 2001.	10	

6	Demonstration of financial capability	10	
	QUALIFICATIONS PROPOSAL SCORE:		_____ Pts

Total Qualification Points Possible = 100 Points

Concurrently with the submittal of the qualifications proposal, the Proposer shall submit a list of all projects that the Proposer's General Contractor has done with HDOT-Highways in the past five years and the associated amount of cost overrun for each project. This information will be considered under Criteria 1. Failure to submit the list concurrently with the qualifications proposal would classify the Proposer as nonresponsive and they shall be ineligible to be selected as one of the top three qualified teams. In the event of a tie, the tie breaker shall be a minimum history of cost overruns.

The total number of pages including the introductory letters, evaluation criteria items, exhibits, and references shall not exceed 100 pages. Tabs will not be counted as a page. A penalty of five points will be deducted from the total score for each page exceeding the 100 page total limit. If double-sided pages are used, each printed face will count as one page. (Example, 2 sheets of paper with one sheet double sided print and one sheet single sided print will count as three pages.) All pages shall be sequentially numbered.

All information required for HDOT to properly evaluate the Proposer for each criteria item contained in six categories identified should be submitted in the Qualifications Submittal for HDOT to assign a credible score. Failure to provide complete information in the Qualifications Proposal may automatically result in a reduced score for a given Criteria Item where complete information is not provided. If no information is provided for a given criteria item, this will automatically result in a score of zero points for the criteria item. In addition, HDOT, at its sole discretion, may deem the Qualifications Submittal as non responsive if the information submitted is incomplete and HDOT is unable to assign a credible Qualifications Proposal score due to the incomplete submittal.

The maximum Qualifications Proposal score is 100. Any score of 60 or less will be considered as non-qualified for the project.

In the event only one qualified Proposer remains after all Qualifications Proposals are evaluated, HDOT reserves the right to cancel this Request for Proposals and re-advertise the project.

C. DETERMINATION OF TOP THREE QUALIFIED PROPOSERS

HDOT will use the three highest Qualifications Proposal Total Scores to determine the top three qualified Proposers who will be invited to submit Design and Price proposals.

In the event of a tie, for this stage, the Proposer with the higher combined score under criteria 3 plus 4 will prevail. The non-successful Proposers may request a debriefing in writing, emailed to the following address: stanford.m.iwamoto@hawaii.gov

For Example:

Proposer	Qualifications Proposal Total Score	Total Sum of 3 and 4	Rank
Proposer A	75	30	3*
Proposer B	75	25	4
Proposer C	78	30	2*
Proposer D	80	35	1*
*Proposers invited to submit Design and Price Proposal			

When HDOT's determination of the top three qualified Proposers is made, HDOT will notify the selected and non-selected firms in writing within the time frame outlined in the Request for Proposals. HDOT will invite the top three qualified Proposers to submit a Design concept and Price Proposal as described in Section IV below.

IV. DESIGN CONCEPT DOCUMENTS AND PRICE PROPOSAL

The Design Concept Documents and Price Proposal shall be received no later than the date and time specified in the Request for Proposals at the Department of Transportation Contracts Office, 869 Punchbowl Street Honolulu, Hawaii 96813.

By submitting a Design and Price Proposal, the Proposer acknowledges the Proposer is fully qualified to complete the Project and that the allocated time was sufficient to collect the necessary information and to prepare designs to base its price proposal. There will be no claims due to "insufficient time to collect information and prepare studies and designs."

A. DESIGN CONCEPT DOCUMENTS

Design Concept Documents from the top three qualified Proposers shall be submitted in a separate box(es) or envelope(s) from the Price Proposal. The Price Proposal shall be submitted in a separate sealed envelope described in subsection B below.

A $50,000 stipend will be paid to the Proposers who receive the second and third highest scores. When the stipend is paid to the Proposer, HDOT shall become the owner of the design.

HDOT has provided a Geotechnical Engineering Exploration Report dated September 12, 2002 to be used at the Proposer's **own risk** and a Pavement Type Justification Report, Supplement No. 2 for this project.

HDOT has also provided a topographic survey dated 2008 in this package to reduce time

and cost incurred by the Proposer in producing the Design Concept Documents. An electronic file of the topographic survey on CD will be provided to each Proposer. The Proposer may use this survey **at its own risk** in the design of the project, however the Proposer shall not be entitled to any claims to HDOT that is related to changed features or missing features in the HDOT furnished topographic survey. The topographic survey was taken during the design phase of the Kaumualii Widening, Phase I project. It is required in the Standard Specifications that site visits be conducted to ascertain changed features from the time the HDOT topo was taken.

To aid in preparing the above proposal, an electronic copy of the Final EA on CD can be obtained from Department of Transportation Contracts Office. Call Stanford Iwamoto at (808) 241-3015 to check for availability.

All teams shall submit complete DBE documentation as stated in Section III of the Regulatory Requirements for Federal-Aid Projects Regarding Disadvantaged Business Enterprises (DBE) form within five working days of the notification date. It is anticipated that notification will occur on **September 16, 2011**.

1) REQUESTS FOR INFORMATION

HDOT will accept Requests for Information (RFI) related to preparing the Design Documents up to 40 calendar days prior to the Proposal (Design and Price Proposal) submittal date specified in the Request for Proposals. All RFIs will be received by HDOT in writing, by FAX, letter, or email by 4:00 pm of this date. RFIs shall be emailed to the following address: stanford.m.iwamoto@hawaii.gov or faxed to the following number: 808-241-3011, attention: Mr. Stanford Iwamoto. No verbal inquiries will be accepted by HDOT.

HDOT's responses to the RFIs related to the preparation of the design documents will be issued by Addendum no later than 30 calendar days prior to the Proposal submittal date. After the Addendum is received, the Proposers shall finish their design documentation according to their best understanding of the project given all information received in this Request for Proposal Documents, in the pre-qualifications proposal meeting, and any addenda documents received to that point.

2) DESIGN CONCEPT DOCUMENTS REQUIREMENTS

The Design Concept Documents should contain the following:

a. An itemized, written statement of conformance affirming any/ all technical provisions that the Proposer will comply with.

b. An itemized, written statement of any/ all technical provisions that

the Proposer will deviate from along with a mitigation description explaining how and/or why the deviation will add value to the project.

Any variations from the Scope of Improvements or any other section of this RFP, including Alternative Technical Concepts (ATC), shall be identified by the Proposer. Any variations, either perceived or noted by the Proposer shall not necessarily cause a proposal to be considered non-responsive and shall not be grounds for filing a protest. HDOT will assess the variations during the evaluation process and score the proposal accordingly.

c. 20 or 40 scale schematic drawings showing temporary and final roadway alignments, roadway profiles, traffic control phasing and management scheme, temporary and final utilities alignment and locations. Other drawings at appropriate scales should include: structure plan and elevations, foundations schematic drawings, drainage plans, and other details at a scale and level of detail necessary to effectively present the design concept to HDOT. Clearly show date when four lanes will be permanently available for use by the public.

d. Landscape plans and/or renderings and estimated annual maintenance costs.

e. Project Schedule - A critical path method schedule showing the sequence of design, permitting and construction work leading to the completion of each increment and the Project. The schedule should indicate that the project will be completed by the required contract completion date. See Section II.P. Contract Time. The schedule shall show a separate path for each increment outlining the sequence of design, permitting and construction work leading to the completion of an increment and the relationship of that increment to other increments. Schedule should indicate work hours, e.g., number of shifts per 24 hour period, number of days per week that work will be done etc. This schedule should include the following milestones with sufficient documentation:

i. Conceptual Design Submittal,
ii. 100% Design Submittal,
iii. End of Job Design Submittal,
iv. HDOT design reviews,
w. Value Engineering,
vi. Permitting activities,

vii. Public meetings,
viii. Scheduled public events,
ix.. Start of Construction,
x. Mass Grading
xi. Relocation of utilities,
xii. Construction Phasing Plan,
xiii. Retaining walls,
xiv. Intersection Improvements
xv. Landscaping
xvi. Completion of All Work Items, and
xvii. 9-month Plant Establishment Period.

f. Updated Quality Control Plan containing all materials or elements known at the Design Concept stage.

3) DESIGN CONCEPT DOCUMENT SUBMITTAL

The submittal should contain the following:

a. 15 bound sets of schematic drawings and renderings (half-size prints

b. Five bound sets of calculations,

c. 15 copies of a listing of anticipated permits and clearances to be obtained,

d. 15 plots of the Project Schedule neatly folded to 8 ½ x 11" size,

e. 15 bound sets of proposed materials list and draft Quality Control Plan, and

f. A pdf copy of the Design Concept Document Submittal on CD-ROM or DVD.

4) DESIGN-BUILD SCORING

a. Evaluation Plan

Evaluation of the Design Concept Documents will be conducted by a review committee consisting of a three member scoring panel (Evaluation Committee) and a non-scoring Technical Advisory Committee (TAC) comprised of personnel from the various disciplines covered within the

proposal.

The review committee will convene and review the proposals as a group over the course of one week. During this initial review, the group will post their comments on a group spreadsheet evaluating the pros and cons of each proposal on a relative basis for comparison.

Upon completion of the initial review, HDOT will schedule an interview with each Proposer that is invited to submit a proposal. Each Proposer and its designer will be given an opportunity to present their design concept to HDOT's Review Committee after HDOT establishes an initial Design Concept Score but before the Price Proposals are opened. These interviews will be held to allow HDOT to clarify any questions it may have.

Upon completion of the Proposer interviews, HDOT's Review Committee will reconvene to finalize their comments to the Proposer proposals.

Once the comments have been finalized, the Evaluation Committee will score the proposals.

After the Design Concept Document scores have been finalized, the Project Manager will open the Price Proposals to calculate each Proposer's total score. Total scores will be rounded to the nearest tenth of a point.

	CRITERIA ITEM	**MAX POINTS**	**ACTUAL POINTS**
1	Effective Traffic Management	20	
2	Technical Approach	30	
3	Aesthetics of Design and Context Sensitivity	10	
4	QC	10	

DESIGN CONCEPT SCORE : ____ Points

Total Design Concept Points Possible = 70 points

Breakdown of Points for evaluation

1	Effective Traffic Management (20 pts max)	0 – 7.5 pts: Traffic control plan; operational efficiency, safety
		0 – 7.5 pts: Project duration; construction duration
		0– 5 pts: Work zone safety
2	Technical Approach (30 pts max)	0 - 10 pts: Highway widening
		0 - 10 pts: Bridge construction and rehabilitation
		0 – 10 pts: Other construction (Drainage, Hoomana Realignment, etc.)
3	Aesthetics; Context Sensitivity (10 pts max)	0 - 5 pts: Lihue Mill Bridge Rehabilitation
		0 – 5 pts: Environmental considerations (aesthetics, landscaping, BMPs, etc.)
4	QC (10 pts max)	0-10 pts: QC plan

b. Price Score

The envelopes containing the sealed Price Proposal will be opened after the Design Concept Documents have been evaluated and scored, and a Price Score will be determined by HDOT's Review Committee as follows:

$$\text{Price Score} : \frac{30 \text{ points} \times \text{Low Bid Amount}}{\text{Bid Amount of any given Proposer}}$$

The score will be rounded to the nearest tenth of a point. Any score of 0.05 or greater will be rounded to the next higher tenth of a point.

c. Total Score

Total design-build score will be the sum of Design Concept and Price Scores (a + b).

5) INTERVIEWS WITH PROPOSERS (OPTIONAL)

Each Proposer and its designer will be given an opportunity to present their design concept to HDOT's Review Committee after HDOT establishes an initial Design Concept Score but before the Price Proposals are opened. These interviews will be held to allow HDOT to clarify any questions it may have.

Any substantial oral clarification by the Proposer shall be reduced to writing by the Proposer. HDOT will consider all information presented in this meeting before determining a final Design Concept Score.

The winning Proposer will be expected to incorporate into their design and construction, any items presented in this interview that were not reflected in the Design Concept Documents. HDOT may take meeting minutes, audio and/or video records and will verify that all items discussed and written clarification offered by the Proposer have been incorporated into subsequent design submittals.

The Proposer shall be permitted to submit a new proposal or amend those submitted if, and only if, HDOT issues an addendum following these interviews.

Each interview will be limited to 75 minutes maximum. 30 minutes will be given to the Proposer for presentation purposes, and a 45-minute questions and answers session. HDOT will contact each Proposer to set the final time, date, and location of the interview and will provide a minimum 7 days notice.

B. PRICE PROPOSAL

1) PRICE PROPOSAL ITEMS

The Project is a design build project to be priced for a total lump sum price plus force account work items. The itemized lump sum prices in the Proposal Schedule are intended principally to serve as a guide in determining and comparing the price proposals. The Schedule may not include all units of work traditionally itemized in other HDOT projects. It is the responsibility of the Proposer to price the total scope of work necessary to complete the Project.

The Price Proposal shall consist of the completed PROPOSAL SCHEDULE and contract documentation attached.

The completed Price Proposal Items should be submitted in a sealed envelope that is separate from the Design Concept Documents and shall be clearly marked.

HDOT will consider this Price Proposal to be the Proposer's Best and Final offer

unless HDOT issues addendum(s) to the Request for Proposal after receiving the Design and Price Proposals.

2) CASH FLOW SCHEDULE

In addition to the project schedule submitted with the Technical Proposal, each Proposer shall submit a schedule of the projected monthly payments that would be earned if its proposed construction schedule is followed. These Cash Flow Schedules shall be submitted in a single copy.

The above documentation shall be submitted with the Price Proposal in a separate sealed envelope.

C. DETERMINATION OF PROJECT AWARD AND CONTRACT EXECUTION

The project will be awarded to the Proposer with the highest total of Design Concept Score and Price Score.

In the event of a tie, the Proposer with the highest Price Proposal Score will prevail.

After HDOT completes its review of the completed Proposal Documents and determines the documents are in order and verifies that sufficient funds are available, HDOT will issue an award letter to the apparent best value Proposer.

For the two non-successful Proposers who are not awarded the Project and who submitted complete Design Concept Documents described in subsection IV. A. of the Technical Provisions, HDOT will execute a $50,000.00 contract for the stipend amount only. After the contract is executed, the non-successful Proposer shall submit a $50,000.00 payment request for the stipend amount. Once this payment is made, HDOT will proceed with contract closeout.

The winning Proposer should, for monthly payment and measurement purposes, break down any of the contract items contained in the Proposal Schedule to smaller, more easily measurable elements. The winning Proposer shall provide a schedule of values and the theoretical quantities associated with each value item, and should clearly indicate which contract item and specification section(s) it applies to. Unless otherwise shown in the Proposal Schedule, all items should be lump sum based on theoretical quantities. This breakdown of items should be provided as indicated in the Proposer's proposal.

Once Price Proposals are opened and the Total Score is calculated, the winning Proposer as determined by the process specified above who submitted a responsive proposal will not be allowed to withdraw from the project.

In the event after evaluation of the Design Concept Documents and Price Proposal that

there is less than two responsive Proposers or if the construction cost for the apparent successful Proposer substantially exceeds HDOT's project budget, the HDOT may at its sole discretion, cancel this Request for Proposal and re-advertise the project.

END OF TECHNICAL PROVISIONS