

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

**ADDENDUM NO. 1  
for  
TRAFFIC SIGNAL MODERNIZATION AT VARIOUS LOCATIONS  
PROJECT NO. HWY-M-02-17**

The following amendments shall be made to the Bid Documents:

**A. NOTICE TO BIDDERS**

Remove the NOTICE TO BIDDERS and replace it with the attached NOTICE TO BIDDERS dated r06/01/17. The licensing requirements have been revised.

**B. SPECIFICATIONS**

1. Remove the TABLE OF CONTENTS dated 7/6/15 and replace it with the attached TABLE OF CONTENTS dated r06/01/17.
2. Remove SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS dated 01/03/12 and replace it with the attached SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS dated r06/01/17.
3. Remove SECTION 770 - TRAFFIC SIGNAL MATERIALS dated 04/21/17 with the attached SECTION 770 - TRAFFIC SIGNAL MATERIALS dated r06/02/17.

**C. PROPOSAL**

1. Remove PROPOSAL Page P-1 dated 7/01/08 and replace it with the attached PROPOSAL Page P-1 dated r06/01/17.

The May 31, 2017 Pre-bid Meeting Minutes and Attendance Sheet are attached for your information.

Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

  
FORD N. FUCHIGAMI  
Director of Transportation

Addendum No. 1  
6/2/17

## **NOTICE TO BIDDERS**

(Chapter 103D, HRS)

SEALED BIDS for:

**Traffic Signal Modernization at Various Locations  
Project No. HWY-M-02-17  
District of Lahaina, Makawao, and Wailuku  
Island of Maui**

will be received at the:

  x   Contracts Office, Department of Transportation  
869 Punchbowl Street, Honolulu, Hawaii 96813

  x   Office of the District Engineer – Maui  
650 Palapala Drive, Kahului, Hawaii 96732

until 2:00 P.M., Hawaii Standard Time (HST), June 16, 2017, at which time and place(s) they will be publicly opened and read.

A compact disc containing the plans, specifications, proposal, contract forms may be obtained from the above offices. Bids (hard copies) shall be submitted in a sealed envelope, and shall be on the Proposal Form provided on the compact disc furnished by said Department. Bids received after the established due date and time will not be considered.

**The project includes furnishing and installing a cloud based Advanced Traffic Management System (ATMS), including controllers, a travel time system, cellular communications, conflict monitor units, system monitors, and all necessary equipment, programming, and data to provide a fully functional system that meets the contract specifications. Estimated construction cost is between \$1,000,000 and \$3,000,000 .**

Licensing is not required to bid; however, electrical work must be performed by a licensed Contractor possessing a valid State of Hawaii Engineering Contractor's "A" license or Specialty Contractor's "C-13" or "C-15" license.

The Hawaii Products Preference pursuant to Act 175, SLH 2009, is applicable to this project. Persons wishing to certify and qualify a product as a Hawaii Product shall submit a Certification for Hawaii Product Preference (SPO-Form 38) to the DOT Contracts office no later than 4:30 P.M., fourteen (14) calendar days prior to the bid opening date. Late submittals for this project will not be reviewed by the DOT. A separate SPO-Form 38 shall be completed and submitted for each product. Forms are available at

<http://spo.hawaii.gov/wp-content/uploads/2013/12/spo-038.doc>.

A 5% bid adjustment for bidders that are parties to apprenticeship agreements pursuant to Section 103-55.6, Hawaii Revised Statutes (HRS), is applicable to this project.

Compliance with Act 192, SLH 2011 is a requirement whereby a minimum of 80% of the bidder's work force on this project **must** consist of Hawaii residents.

A pre-bid conference is set for 2:00 P.M. May 31, 2017 at the Highways Division, Maui District Office Conference Room, 650 Palapala Drive, Kahului, Hawaii, 96732. All prospective bidders or their representatives (employees) are encouraged to attend, but attendance is not mandatory. Persons needing special accommodations at the pre-bid conference due to a disability may

contact Ervin Pigao at the State of Hawaii, Department of Transportation, Highways Division, Maui District Office by phone at (808) 873-3535 or by facsimile at (808) 873-3544.

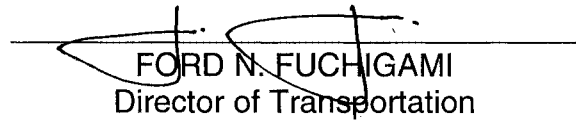
Campaign contributions by State and County Contractors. Contractors are hereby notified of the applicability of Section 11-355, HRS, which states that campaign contributions are prohibited from specified State or county government contractors during the term of the contract if the contractors are paid with funds appropriated by the legislative body. For more information, contact the Campaign Spending Commission at (808) 586-0285.

The Equal Employment Opportunity Regulations of the Secretary of Labor implementing Executive Order 11246, as amended, shall be complied with on this on this project.

The U.S. Department of Transportation Regulation entitled "Nondiscrimination in Federally-Assisted Programs of the U.S. Department of Transportation," Title 49, Code of Federal Regulations (CFR), Part 21 is applicable to this project. Bidders are hereby notified that the Department of Transportation will affirmatively ensure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the grounds of race, color, national origin or sex (as directed by 23 CFR Part 200).

For additional information on this project, contact Ervin Pigao at (808) 873-3535, fax (808) 873-3544, email [ervinanthony.r.pigao@hawaii.gov](mailto:ervinanthony.r.pigao@hawaii.gov), or by mail at 650 Palapala Drive, Kahului, Hawaii 96732-2321.

The State reserves the right to reject any or all proposals and to waive any defects in said proposals for the best interest of the public.

  
FORD N. FUCHIGAMI  
Director of Transportation

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Performance Bond

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Labor and Material Payment Bond

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1 Make this section a part of the Standard Specifications:  
2

3 **"SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS**  
4

5 **102.01 Prequalification of Bidders.** Prospective bidders shall be  
6 capable of performing the work for which they are bidding.  
7

8 In accordance with HRS Chapter 103D-310, the Department may require  
9 any prospective bidder to submit answers to questions contained in the  
10 'Standard Qualification Questionnaire For Prospective Bidders On Public Works  
11 Contracts' furnished by the Department, properly executed and notarized,  
12 setting forth a complete statement of the experience of such prospective bidder  
13 and its organization in performing similar work and a statement of the equipment  
14 proposed to be used, together with adequate proof of the availability of such  
15 equipment. Whenever it appears to the Department, from answers to the  
16 questionnaire or otherwise, that the prospective bidder is not fully qualified and  
17 able to perform the intended work, the Department will, after affording the  
18 prospective bidder an opportunity to be heard and if still of the opinion that the  
19 bidder is not fully qualified to perform the work, refuse to receive or consider any  
20 bid offered by the prospective bidder. All information contained in the answers  
21 to the questionnaire shall be kept confidential. Questionnaire so submitted  
22 shall be returned to the bidders after serving their purpose.  
23

24 No person, firm or corporation may bid where (1) the person, firm, or  
25 corporation, or (2) a corporation owned substantially by the person, firm, or  
26 corporation, or (3) a substantial stockholder or an officer of the corporation, or  
27 (4) a partner or substantial investor in the firm is in arrears in payments owed to  
28 the State or its political subdivisions or is in default as a surety or failure to do  
29 faithfully and diligently previous contracts with the State.  
30

31 **102.02 Contents of Proposal Forms.** The Department will furnish  
32 prospective bidders with proposal forms stating:  
33

- 34 (1) The location,  
35  
36 (2) Description of the proposed work,  
37  
38 (3) The approximate quantities,  
39  
40 (4) Items of work to be done or materials to be furnished,  
41  
42 (5) A schedule of items, and  
43  
44 (6) The time in which the work shall be completed.  
45



Papers bound with or attached to the proposal form are part of the proposal. The bidder shall not detach or alter the papers bound with or attached to the proposal when the bidder submits its proposal.

Also, the bidder shall consider other documents including the plans and specifications a part of the proposal form whether attached or not.

**102.03 Issuance of Proposal Forms.** The Department reserves the right to refuse to issue proposal forms to prospective bidders, which refusal may be based on the following:

- (1) Lack of competency or adequate machinery, plant, and other equipment (which determination may be based on the financial statement and experience questionnaires required under Subsection 102.01 - Prequalification of Bidders);
- (2) Uncompleted work that might hinder or prevent the prompt completion of additional work if awarded;
- (3) Failure to pay or settle bills due for labor and material on former contracts in force at the time of issuance of the project proposal forms;
- (4) Failure to comply with qualification regulations of the Department;
- (5) Default under previous contracts; or
- (6) Lack of responsibility and cooperation from past work.

**102.04 Estimated Quantities.** The quantities shown in the contract are approximate and are for the comparison of bids only. The actual quantity of work may not correspond with the quantities shown in the contract. The Department will make payment to the Contractor for unit price items in accordance with the contract for only the following:

- (1) Actual quantities of work done and accepted, not the estimated quantities; or
- (2) Actual quantities of materials furnished, not the estimated quantities.

The Department may increase, decrease, or omit each scheduled quantities of work to be done and materials to be furnished. When the Department increases or decreases the estimated quantity of a contract item by more than 15% the Department will make payment for such items in accordance with Subsection 104.06 - Methods of Price Adjustment.

**102.05 Examination of Contract and Site of Work.** The bidder shall examine carefully the site of the proposed work and contract before submitting a proposal.

By the act of submitting a bid for the proposed contract, the bidder warrants that:

(1) The bidder and its Subcontractors have reviewed the contract documents and found them free from ambiguities and sufficient for the purpose intended;

(2) The bidder and its workers, employees and subcontractors have the skills and experience in the type of work required by the contract documents bid upon;

(3) Neither the bidder nor its employees, agents, suppliers or subcontractors have relied upon verbal representations from the Department, its employees or agents, including architects, engineers or consultants, in assembling the bid figure; and

(4) The bases for the bid figure are solely on the construction contract documents.

Also, the bidder warrants that the bidder has examined the site of the work. From its investigations, the bidder acknowledges satisfaction on:

(1) The nature and location of the work;

(2) The character, quality, and quantity of materials;

(3) The difficulties to be encountered; and

(4) The kind and amount of equipment and other facilities needed;

Subsurface information or hydrographic survey data furnished are for the bidders' convenience only. The data and information furnished are the product of the Department's interpretation gathered in investigations made at the specific locations. These conditions may not be typical of conditions at other locations within the project area or that such conditions remain unchanged. Also, conditions found at the time of the subsurface explorations may not be the same conditions when work starts. The bidder shall be solely responsible for assumptions, deductions, or conclusions the bidder may derive from the subsurface information or data furnished.

If the Engineer determines that the natural conditions differ from that originally anticipated or contemplated by the Contractor in the items of

excavation, the State may treat the difference in natural conditions, as falling within the meaning of Subsection 104.02 – Changes.

**102.06 Preparation of Proposal.** The submittal of its proposal shall be on forms furnished by the Department. The bidder shall specify in words or figures:

- (1) A unit price for each pay item with a quantity given;
- (2) The products of the respective unit prices and quantities
- (3) The lump sum amount; and
- (4) The total amount of the proposal obtained by adding the amounts of the several items.

The words and figures shall be in ink or typed. If a discrepancy occurs between the prices written in words and those written in figures, the prices written in words shall govern.

When an item in the proposal contains an option to be made, the bidder shall choose in accordance with the contract for that particular item. Determination of an option will not permit the Contractor to choose again.

The bidder shall sign the proposal properly in ink. A duly authorized representatives of the bidder or by an agent of the bidder legally qualified and acceptable to the Department shall sign, including one or more partners of the bidder and one or more representatives of each entity comprising a joint venture.

When an agent, other than the officer(s) of a corporation authorized to sign contracts for the corporation or a partner of a partnership, signs the proposals, a 'Power of Attorney' shall be on file with the Department or submitted with the proposal. Otherwise, the Department will reject the proposal as irregular and unauthorized.

The bidder shall submit acceptable evidence of the authority of the partner, member(s) or officer(s) to sign for the partnership, joint venture, or corporation respectively with the proposal. Otherwise, the Department will reject the proposal as irregular and unauthorized.

**102.07 Irregular Proposals.** The Department may consider proposals irregular and may reject the proposals for the following reasons:

- (1) The proposal is a form not furnished by the Department, altered, or detached;

184 (2) The proposal contains unauthorized additions, conditions, or  
185 alternates. Also, the proposal contains irregularities that may tend to  
186 make the proposal incomplete, indefinite, or ambiguous to its meaning;  
187

188 (3) The bidder adds provisions reserving the right to accept or reject an  
189 award. Also, the bidder adds provisions into a contract before an  
190 award;  
191

192 (4) The proposal does not contain a unit price for each pay item listed  
193 except authorized optional pay items; and  
194

195 (5) Prices for some items are out of proportion to the prices for other  
196 items.  
197

198 (6) If in the opinion of the Director, the bidder and its listed  
199 subcontractors do not have the Contractor's licenses or combination of  
200 Contractor's licenses necessary to complete the work.  
201

202 Where the prospective bidder is bidding on multiple projects  
203 simultaneously and the proposal limits the maximum gross amount of awards  
204 that the bidder can accept at one bid letting, the proposal is not irregular if the  
205 limit on the gross amount of awards is clear and the Department selects the  
206 awards that can be given.  
207

208 **102.08 Proposal Guaranty.** The Department will not consider a proposal of  
209 \$25,000 or more unless accompanied by:  
210

211 (1) A deposit of legal tender; or  
212

213 (2) A valid surety bid bond, underwritten by a company licensed to  
214 issue bonds in the State of Hawaii, in the form and composed,  
215 substantially, with the same language as provided herewith and signed by  
216 both parties; or  
217

218 (3) A certificate of deposit, share certificate, cashier's check,  
219 treasurer's check, teller's check, or official check drawn by, or a certified  
220 check accepted by and payable on demand to the State by a bank,  
221 savings institution, or credit union insured by the Federal Deposit  
222 Insurance Corporation (FDIC) or the National Credit Union Administration  
223 (NCUA).  
224

225 (a) The bidder may use these instruments only to a maximum of  
226 \$100,000.  
227

(b) If the required security or bond amount totals over \$100,000 more than one instrument not exceeding \$100,000 each and issued by different financial institutions shall be acceptable.

(c) The instrument shall be made payable at sight to the Department.

In accordance with HRS Chapter 103D-323, the above shall be in a sum not less than 5% of the amount bid.

**102.09 Delivery of Proposal.** The bidder shall submit the proposal in a sealed envelope, bearing on the outside the identity of the project and the its name and address. The Department will reject and return a proposal unopened if received after the time set for the opening of bids.

**102.10 Withdrawal or Revision of Proposals.** A bidder may withdraw or revise a proposal after the bidder deposits the proposal with the Department, provided the Department receives such withdrawal or revision request in writing before the time set for the opening of bids.

**102.11 Public Opening of Proposals.** The Department will open and read the proposals publicly at the time and place shown in the Notice to Bidders. Invited are bidders, their authorized agents, and other interested parties to be present.

**102.12 Disqualification of Bidders.** The Department may disqualify a bidder and reject its proposal for the following reasons:

- (1) Submittal of more than one proposal whether under the same or different name.
- (2) Evidence of collusion among bidders. The Department will not recognize participants in collusion as bidders for any future work of the Department until such participants are reinstated as qualified bidders.
- (3) Lack of proposal guaranty.
- (4) Submittal of an unsigned or improperly signed proposal.
- (5) Submittal of a proposal without a listing of subcontractors or containing only a partial or incomplete listing of subcontractors.
- (6) Submittal of an irregular proposal in accordance with Subsection 102.07 - Irregular Proposals.

(7) Evidence of assistance from a person who has been an employee of the agency within the preceding two years and who participated while in State office or employment in the matter with which the contract is directly concerned, pursuant to HRS Chapter 84-15.

(8) Suspended or debarred in accordance with HRS Chapter 104-25.

(9) Failure to complete the prequalification questionnaire.

**102.13 Material Guaranty.** The successful bidder may be required to furnish a statement of the composition, origin, manufacture of materials, and samples.

**102.14 Substitution of Materials and Equipment Before Bid Opening.** See Subsection 106.13 for Substitution Of Materials and Equipment After Bid Opening.

**(A) General.** When brand names of materials or equipment are specified in the contract documents, they are to indicate a quality, style, appearance, or performance and not to limit competition. The bidder shall base its bid on one of the specified brand names unless alternate brands are qualified as equal or better in an addendum. Qualification of such proposed alternate brands shall be submitted in writing and addressed to the Contracts Officer. The face of the envelope containing the request must be clearly marked 'SUBSTITUTION REQUEST'. The request may be hand-carried or mailed to the DOT Contracts Office, Room 105, 869 Punchbowl Street, Honolulu, Hawaii 96813. In either case, the written request must be received by the DOT Contracts Office no later than 14 calendar days before the bid opening date, not including the bid opening date. The written request will be time stamped by the DOT Contracts Office. For the purpose of this section, the time designated by the time stamping device in the DOT Contracts Office shall be official. If the written request is hand-carried, the bearer is responsible to ensure that the request is time stamped by the DOT Contracts Office.

Submit 5 sets of the written request, technical brochures, and a statement of variances.

An addendum will be issued to inform all prospective bidders of any accepted substitution in accordance with Subsection 102.17 – Addenda .

**(B) Statement of Variances.** The statement of variances must list all features of the proposed substitution that differ from the contract documents and must further certify that the substitution has no other

variant features. The brochure and information submitted shall be clearly marked showing make, model, size, options, and any other features requested by the Engineer and must include sufficient evidence to evaluate each feature listed as a variance. A request will be denied if submitted without sufficient evidence. If after installing the substituted product, an unlisted variance is discovered, the Contractor shall immediately replace the product with a specified product at no increase in contract price and contract time.

**(C) Substitution Denial.** Any substitution request not complying with the above requirements will be denied.

## **102.15 Preferences.**

**(A) Preference for Hawaii Products.** The bidder's attention is directed to Sections 103D-1001 and 103D-1002, HRS and Subchapter 1, Chapter 124, Subtitle 11 of Title 3, HAR which provide preferences for Hawaii Products. According to Section 103D-1002, HRS, the bidder may examine the Hawaii Products List at the State Procurement Office, State Office Building, 1151 Punchbowl Street, Honolulu, Hawaii 96813.

If a product listed in the Hawaii Products List is available and meets project specifications, such product will be designated in the contract documents as a qualified product which may be used in the performance of the project.

If the bidder intends to claim preference for products on the Hawaii Product List and such is not listed, the bidder shall immediately notify the Contracts Office, Department of Transportation, so the Engineer may take corrective or other appropriate actions.

It is further understood by the bidder that if the bidder elects to furnish qualified Hawaii Products, and is awarded the contract, then fails to use such products or meet the requirements of such preference, the bidder shall be subject to the statutory penalties, provided in HRS Chapter 103D-1002, and such other remedies as may be available to the State.

For the purpose of determining the lowest bid price only, the provisions of HRS Chapter 103D-1002 shall apply. Any contract awarded or executed in violation of HRS Chapter 103D-1002 shall be void and no payment shall be made on account of such contract.

**(B) Preferences for Apprenticeship Programs.** In accordance with ACT 17, SLH 2009 – Apprenticeship Program, a 5% bid adjustment for bidders that are parties to apprenticeship agreements pursuant to Hawaii Revised Statutes (HRS) Section 103-55.6 may be applied to the

bidder's price for evaluation purposes. These procedures apply to public works projects with estimated cost of \$250,000 or more and entered into under the provisions of HRS Chapter 103.

The following provisions apply to this Apprenticeship Program.

**(1) Definitions**

**(a)** "Apprenticeable trade", HRS Section 103-55.6 (c), shall have the same meaning as 'apprenticeable occupation' pursuant to Hawaii Administrative Rules (HAR) Section 30-1-5.

**(b)** "Department" means the department of labor and industrial relations.

**(c)** "Director" means the director of labor and industrial relations.

**(d)** "Employ" means the employment of a person in an employer-employee relations.

**(e)** "Governmental body" means as defined in HRS Section 103D-104.

**(f)** "Party to an apprenticeship agreement" means party to a registered apprenticeship program with the department of labor and industrial relations.

**(g)** "Preference" means the 5% by which the qualified bidder's offer amount would be decreased for evaluation purposes.

**(h)** "Public work" shall be as defined in HRS Section 104-2 and HAR Section 12-22-1.

**(i)** "Registered apprenticeship program" means a construction trade program approved by the department pursuant to HAR Section 12-30-1 and Section 12-30-4.

**(j)** "Sponsor" means an operator of an apprenticeship program and in whose name the program is approved and registered with the department of labor and industrial relations pursuant to HAR Section 12-30-1.

**(k)** Offeror – Entity/bidder submitting a proposal to undertake a project.

**(l)** Procurement Officer – Director of Transportation or his authorized representative.

**(2) Qualification Procedures**

**(a)** Any bidder seeking the preference must be a party to an apprenticeship agreement registered with the department at the



time the offer is made for each apprenticeable trade the bidder will employ to construct the public works projects for which the offer is being made.

1. The apprenticeship agreement shall be registered and conform to the requirements of HRS Chapter 372.

2. Subcontractors do not have to be a party to an apprenticeship agreement for the bidder to obtain the preference.

3. The bidder is not required to have apprentices in its employ at the time of submittal of an offer to qualify for the preference.

(b) The department shall:

1. Develop and maintain a list of construction trades in registered apprenticeship programs which conform to HRS Chapter 372; and

2. Electronically post the list; including any amendments, on the department website (<http://hawaii.gov/labor/wdd>).

(c) Bidder is responsible to comply with all submission requirements for registration of its apprenticeship program before requesting a preference.

(d) Bidder shall provide a certification by the sponsor of the respective registered apprenticeship programs covering the relevant trade(s) for the public works project.

(e) *Certification Form 1* issued by the department shall include:

1. Contractor information;

2. Solicitation reference;

3. Trade(s);

4. Date and name of apprenticeship program;

5. Signature of authorized training coordinator or training trust fund administrator certifying that the contractor is a participant in the program, and that the program is registered with the department;

6. Contract information for sponsor's authorized representative signing the form;

472 7. Number of apprentices enrolled in the program, number  
473 who successfully completed the apprenticeship program in  
474 the past 12 months, including whether the contractor is  
475 signatory to a collective bargaining agreement for that  
476 trade, or if not, provide for attachment of a copy of the  
477 agreement between the contractor and the program.  
478

479 (3) Solicitation Procedures  
480

481 (a) If the NTB indicates that this project is covered by this  
482 preference, and the offer is less than \$250,000 this preference  
483 will still be applicable in determining the lowest bidder.  
484

485 (b) A claim for this preference must include the following:  
486

487 1. Allow bidder seeking to claim the preference to state  
488 the trades the bidder will employ to perform the work;  
489

490 2. For each trade to be employed to perform the work,  
491 the bidder shall submit a completed signed original  
492 *Certification Form 1* verifying participation in an  
493 apprenticeship program registered with the department.  
494

495 3. The *Certification Form 1* shall be authorized by an  
496 apprenticeship sponsor of the department's list of  
497 registered apprenticeship programs. The authorization  
498 shall be an original signature by an authorized official of  
499 the apprenticeship sponsor; and  
500

501 4. The completed *Certification Form 1* for each trade  
502 must be submitted by the bidder with the offer. Previous  
503 certifications shall not apply unless allowed by the  
504 solicitation.  
505

506 (c) Upon receiving *Certification Form 1*, the procurement  
507 officer will verify with the department that the apprenticeship  
508 program is on the list of apprenticeship programs registered  
509 with the department. If the programs are not confirmed by the  
510 department, the bidder will not qualify for the preference.  
511

512 (4) Evaluation and Contract Award  
513

514 (a) If the bidder certifies participation in an apprenticeship  
515 program for each trade which will be employed by the bidder for  
516 the project, the procurement officer shall apply the preference  
517 and decrease the bidder's total bid amount by five per cent (5%)  
518 for evaluation purposes.  
519

520 (b) Should the bidder qualify for other statutory preferences  
521 (for example, Hawaii products), all applicable preferences shall  
522 be applied to the bidder's price.  
523

524 (c) The contract amount shall be the original offer amount,

525 exclusive of any preference; the preference is only for  
526 evaluation purposes.

527  
528 (d) Any claims challenging a bidder's representation that the  
529 bidder is a participant in an apprenticeship program(s) as  
530 claimed, shall be submitted to the procurement officer. The  
531 procurement officer will refer the challenge to the department of  
532 labor and industrial relations who shall investigate any such  
533 claims and shall make a determination.

534  
535 (5) Contract Administration  
536

537 (a) For the duration of a contract awarded utilizing the  
538 apprenticeship preference, the contractor shall certify each  
539 month that work is being conducted on the project, that it  
540 continues to be a participant in the relevant apprenticeship  
541 program for each trade it employs.

542  
543 (b) Monthly certification shall be made on *Monthly Certification*  
544 *Form 2* prepared and made available by the department, be a  
545 signed original by the respective apprenticeship program  
546 sponsors authorized official, and submitted by the contractor  
547 with its monthly payment requests.

548  
549 (c) Should the contractor fail or refuse to submit its monthly  
550 certification forms, or at any time during the construction of the  
551 project, cease to be a part to a registered apprenticeship  
552 agreement for each apprenticeable trades the contractor  
553 employs, or will employ, the contractor will be subject to the  
554 following sanctions:

555  
556 1. Withholding of the requested payment until the  
557 required form(s) are submitted;

558  
559 2. Temporary or permanent cessation of work on the  
560 project, without recourse to breach of contract claims by  
561 the contractor; provided the agency shall be entitled to  
562 restitution for nonperformance or liquidated damages  
563 claims; or

564  
565 3. Proceed to debar or suspend pursuant to HRS  
566 Section 103D-702.

567  
568 (d) If events such as "acts of God," acts of a public enemy,  
569 acts of the State or any other governmental body in its  
570 sovereign or contractual capacity, fires, floods, epidemics,  
571 freight embargoes, unusually severe weather, or strikes or other  
572 labor disputes prevent the contractor from submitting the  
573 certification forms, the contractor shall not be penalized as  
574 provided herein, provided the contractor completely and  
575 expeditiously complies with the certification process when the  
576 event is over.  
577

578 This subsection shall not apply when its application will disqualify  
579 the State from receiving federal funds or aid.  
580

581 **(C) Preference for Recycled Products.** Recycled Products shall  
582 not apply to this project.  
583

584 **(D) Evaluation Procedures and Contract Award.** For bid  
585 evaluation, the Engineer will evaluate the bids by applying the applicable  
586 preferences selected by the bidders according to the contract. The  
587 Engineer will base the calculations for adjustments upon the original bid  
588 prices offered. If more than one preference applies, the evaluated bid  
589 price shall be the sum of the original bid price plus applicable preference  
590 adjustments.  
591

592 If a bidder has designated use of a Hawaii Product and fails to  
593 provide the product, the contract will become void and no payments will  
594 be made.  
595

596 The Engineer will award the contract to the responsible bidder  
597 submitting the responsive bid with the lowest evaluated bid price. The  
598 contract amount of the contract awarded shall be the original bid price  
599 offered exclusive of any preference.  
600

601 **102.16 Certification for Safety and Health Program for Bids in excess**  
602 **of \$100,000.** In accordance with HRS Chapter 396-18, the bidder or offeror,  
603 by signing and submitting this proposal, certifies that a written safety and health  
604 plan for this project will be available and implemented by the notice to proceed  
605 date for this project. Details of the requirements of this plan may be obtained  
606 from the State Department of Labor and Industrial Relations, Occupational  
607 Safety and Health Division (HIOSH).  
608

609 **102.17 Addenda.** Addenda issued shall become part of the contract  
610 documents. Addenda to the bid documents will be provided to all prospective  
611 bidders at the respective offices furnished for such purposes. Each addendum  
612 shall be an addition to the contract documents. The terms and requirements of  
613 the bid documents (i.e. drawings, specifications and other bid and contract  
614 documents) cannot be changed prior to the bid opening except by a duly issued  
615 addendum."  
616  
617  
618  
619  
620  
621

**END OF SECTION 102**

1                                   **SECTION 770 – TRAFFIC SIGNAL MATERIALS**

2  
3       Make the following amendments to said Section:

4  
5       **(I)**     Replace **Section 770 – Traffic Signal Materials** in its entirety:

6  
7       **770.01    Advanced Traffic Management System (ATMS)**

8  
9           **(A)**    **The ATMS shall;**

10  
11                   **(1)**    Have all servers and necessary hardware to operate the  
12                   ATMS software, be cloud based and maintained by the supplier.  
13                   Troubleshooting, repair, and maintenance of the ATMS shall be the  
14                   responsibility of the supplier for the duration of the contract.

15  
16                   **(2)**    Have a platform that allows remote access.

17  
18                   **(3)**    The ATMS software shall communicate to the latest version  
19                   of the current controller software for the life of the system.

20  
21                   **(4)**    Have current industry standard security measures or better.

22  
23                   **(5)**    Be capable of being upgraded or reinstalled directly over  
24                   existing installation and upgrades and operation shall be  
25                   guaranteed for the duration of the contract.

26  
27                   **(6)**    Be compatible with ATC 2070 1C / equivalent or better  
28                   controllers. Be compliant with NTCIP 1202 communications  
29                   protocol standards.

30  
31                   **(7)**    Have a system and controller firmware that are NTCIP  
32                   compliant and compatible.

33  
34                   **(8)**    Incorporate an agency-wide map as the major portion of the  
35                   main graphics display.

36  
37                   **(9)**    Have a display that allows pan and zoom capabilities.

38  
39                   **(10)**   Be capable of employing multiple map sources for the base  
40                   map. These sources shall include, but not be limited to:

- 41                   a.     ESRI shape files.  
42                   b.     Bing or Google Maps  
43                   c.     ArcGIS Maps.

44  
45                   **(11)**   At a minimum, have active intersection graphics that depicts  
46                   all lanes, intersection configuration, phases of the intersection in

real time, detection indication for active calls, plans and offsets, coordination, and date and time.

**(12)** Provide an alert indicator, providing real-time details on the number of open alerts and the criticality of each alert on each workstation logged into system.

**(13)** Provide the ability for users to schedule a database comparison based on a user defined Time of Day (TOD) or Day of Week (DOW) schedule that automatically uploads the database from the device and compares it to the central database.

**(14)** Provide a comparison of scheduled database comparisons in a report that includes the following:

- a. Device number
- b. Status of upload
- c. Date and time of last comparison

**(15)** At a minimum, include alerts for:

- a. Timing and discrepancies
- b. Date and time discrepancies
- c. Coordination failure
- d. Detector failures
- e. Communication failures
- f. Flashing

**(16)** Be capable of automatically sending alphanumeric text messages or email notifications to cell phones or other hand held or portable device upon detecting problems with the system or any device and the capability to escalate alarms to a defined user group matrix automatically.

**(17)** Support a live travel time software interface that is integrated into the ATMS software.

**(18)** Provide reporting capabilities allowing users to see travel times and speed for selected roadway segments where travel time data is available.

**(19)** Provide a display where intersection timing plans and signal phasing is presented in graphical form.

**(20)** Display an intersection by selecting the location on the main map.

94  
95 (21) Be programmable for up to 16 phases, including  
96 protected/permissive movements and overlaps.  
97

98  
99 (22) Have protected/permissive indications configured as one of  
100 the following:  
101

- 102 a. MUTCD flashing left turn yellow arrow, or
- 103 b. Five-section left protected/permissive left turn.  
104

105 (23) Provided a means by which a user can schedule events and  
106 functions to be implemented or terminated by (TOD) or (DOW), and  
107 shall include means by which the events can be called with the  
108 following frequencies:  
109

- 110 a. Daily.
- 111 b. Weekly.
- 112 c. Annually.
- 113 d. One-time Event – provide the ability to run an event  
114 once and only once.
- 115 e. Provide a means by which alerts can be configured to  
116 be delivered to different individuals via text or email  
117 messages by time of day / day of week.  
118

119 (24) Allow the operator to display time-space diagrams and  
120 reports.  
121

122 (25) Display time-space diagrams for both programmed, real-  
123 time, and historical coordination timings.  
124

125 (26) Have time-space diagrams that provide information on  
126 offset, cycle times and the main street actual and programmed split  
127 times of the intersections being viewed.  
128

129 (27) The system shall include a real-time split monitor that  
130 provides, at a minimum, the following functionality:  
131

- 132 a. An analysis of the splits of an intersection per phase.
- 133 b. View and process programmed, historical, and live  
134 data.
- 135 c. View live data for each phase from the controller.  
136

137 (28) The system user shall be able to view and process both  
138 programmed, historical and real-time data.  
139

(29) Each split shown includes the set pattern, the set offset, the set cycle length, the actual cycle length, the set split values and the actual split values.

(30) It shall be possible to select the period for which the data shall be displayed by start and stop time and date, day of week, the last occurrence of a plan

(31) The system shall be able to provide pdf, word, and excel format reports, providing information compiled from data retrieved from the system. These reports shall include, but not be limited to the following:

- a. Alerts log report.
- b. System events report including failures.
- c. Detector report.
- d. Upload and compare report.
- e. Scheduler/TOD report.
- f. Split Monitor report.
- g. Intersection Events report.
- h. Time Space Diagram report.
- i. Cycle Length report.
- j. Travel Time reports.

(32) The following communication hardware is supported:

- a. Ethernet.
- b. Serial.
- c. Fiber.
- d. Wireless.

(33) Have a Warranty period of five (5) years. Warranty to include the following:

- a. Servicing of system/replacement of any parts necessary until the end of the warranty period. If a Contractor is needed, this cost shall be considered incidental to this work.
- b. Offer an additional three (3), twelve (12) month renewal periods.

## **770.02 Controller**

**(A) Controller shall be;**

- (1) A model 2070 1C.**



- 187  
188 (2) On the most current CalTrans Qualified Products List, or  
189 (3) A pre-approved equal or better (approval must be obtained  
190 before bid opening).  
191

192 **770.03 Cellular Access Point**

193  
194 **(A) Cellular Router shall;**

- 195  
196 (1) Be a Digi WR 44-L500\_CEI-RF equal or better.  
197  
198 (2) Include all hardware, antennae, and other components  
199 necessary to ensure communication between the controller  
200 and the ATMS, and,  
201  
202 (3) Include service to Verizon Wireless until the end of the  
203 warranty period.  
204

205 **770.04 Travel Time System**

206  
207 **(A) Travel Time System shall be;**

- 208  
209 (1) Blue Toad by Traffic Cast / equivalent or better.  
210  
211 (2) Blue tooth.  
212  
213 (3) Roadside unit must have Ethernet capability.  
214  
215 (4) Be integrated into the ATMS.  
216  
  
217 (5) Have a Warranty period of five (5) years. Warranty to  
218 include the following:  
219  
220 a. Servicing of system/replacement of any parts  
221 necessary until the end of the warranty period. If a  
222 Contractor is needed, this cost shall be considered  
223 incidental to this work.  
224 b. Offer an additional three (3), twelve (12) month  
225 renewal periods.  
226

227 **770.05 System Monitors**

228  
229 **(A) System Monitors shall be;**

- 230  
231 (1) The newest version available of Dell Latitude 14 Rugged  
232 equal or better that is compatible with the system.

233  
234 **770.06 Conflict Monitoring Unit (CMU)**  
235

236 **(A) Conflict Monitoring Unit shall be;**  
237

238 **(1)** An Eberle Design Inc. (EDI) model 2010ECL Signal Monitor  
239 equal or better.

240  
241 **(2)** Meets all requirements of the CalTrans "TSCE Specifications  
242 1/89".  
243

**END OF SECTION 770**

**PROPOSAL TO THE  
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION**

**PROJECT: Traffic Signal Modernization at Various Locations**

**PROJECT NO.: HWY-M-02-17**

**COMPLETION TIME: 180 Working days from the date indicated in the  
Notice to Proceed from the Department.**

**DESIGN PROJECT MANAGER:**

<b>NAME:</b>	<b>Ervin Pigao</b>
<b>ADDRESS:</b>	<b>650 Palapala Drive, Kahului, HI 96732-2321</b>
<b>PHONE NO.:</b>	<b>(808) 873-3535</b>
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<b>FAX NO.:</b>	<b>(808) 873-3544</b>

June 5, 2017

## **MEETING MINUTES**

Date of Meeting: May 31, 2017, 2:00PM

Location: DOT-HWY, Maui District Office

Subject: Pre-Bid Meeting for Traffic Signal Modernization Project

Attendees: DOT – Donald Smith (via teleconference), Fred Gutierrez & Alan Matsuda  
Econolite – Stan Garren  
Shah & Associates – Khal Shah & Calvin Matsuura  
Austin, Tsutsumi & Associates, Inc. (ATA) – Tyler Fujiwara & Allison Ichikawa

## **PURPOSE OF MEETING**

This meeting was held to gather any questions or comments from contractors on the proposed Traffic Signal Modernization Project.

## **SUMMARY OF DISCUSSION**

1. Econolite – Can contractor license requirements be waived?
  - a. DOT – We'll look into this on a follow-up Addendum.
  - b. ATA follow-up response – Licensing requirement updated in Addendum.
2. Econolite – There's possibly a 5-year commitment to be bonded, with the potential for an additional 3 years (Section 770.01.33). When will the bond be released? Will it be for the full 5 years or can they be released after a certain period?
  - a. DOT – We'll look into this on a follow-up Addendum.
  - b. ATA follow-up response – Bonding requirement to remain as stated in Special Provisions.
3. Shah – Electrical contractors may not have those capabilities, to meet the bonding requirements.
  - a. DOT – We'll look into this on a follow-up Addendum.
  - b. ATA follow-up response – Bonding requirement to remain as stated in Special Provisions.

4. Econolite – When can we provide all our questions/comments?
  - a. ATA – We would like to have any follow-up questions by Thursday, June 1<sup>st</sup>, so we can package the addenda by Friday, June 2<sup>nd</sup>.
5. Econolite – Econolite's Cobalt controller supersedes the model 2070-1C. Will DOT accept this (Cobalt) in place of 2070-1C?
  - a. DOT – Econolite will need to submit something to DOT to say that it meets the identified controller spec requirements, such as meeting/exceeding the CalTrans requirement (Qualified Products List).
6. Econolite – Travel Time system is cloud based and tied to the ATMS. Do we need a 5 year license agreement?
  - a. DOT – We'll look into this on a follow-up Addendum.
  - b. ATA follow-up response – Travel Time system licensing updated in Addendum.
7. Econolite – There's a requirement of 10% spare parts (Plan Sheet C-2). Is this in addition to the 80 controllers? So do we need 88 controllers?
  - a. DOT – Bidding 80 intersections with 10% spares. All wires, cables, hardware. This includes 10% additional bluetoads.
  - b. Econolite – So this is 8 extra hardware components, but not ATMS or system monitors?
  - c. DOT – Affirmative.
8. Econolite – CMU mentioned, but can't find any directions on it.
  - a. DOT – Need to add in addendum, to furnish and install CMU's.
  - b. ATA follow-up response – Notice to bidders section states that the project shall furnish and install CMU's.
9. Econolite – Spec calls for pre-bid meeting. "Notice to Bidders" section says attendance is not mandatory. Section 102.12.10 says Department may disqualify bidder for failure to attend the mandatory pre-bid meeting, if applicable. Which supersedes?
  - a. DOT – Pre-bid meeting is NOT mandatory.

## ATTENDANCE LIST – PRE-BID MEETING

TRAFFIC SIGNAL MODERNIZATION  
AT VARIOUS LOCATIONS  
Project No. HWY-M-02-17

MAUI DISTRICT COFERENCE ROOM  
May 31, 2017, 2:00 PM

Donald Smith, HWY M - 933-8866  
Fred Gutierrez, HWY M - 873-3419  
Christopher Della, HWY M

*Secretary*  
933-0647

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