

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS

ADDENDUM NO. 1

TO

SPECIFICATIONS AND PROPOSAL

PAVEMENT REPAIRS AT VARIOUS LOCATIONS,
HILO HARBOR, HAWAII ISLAND, HAWAII
PROJECT NO. S50203

May 3, 2023

This Addendum shall make the following amendments to the Bid Documents:

1. NOTICE TO BIDDERS

Prospective bidders are hereby notified that the receiving of bids, scheduled for Friday, May 5, 2023, at 2:00 p.m. Hawaii Standard Time (HST), is HEREBY POSTPONED until **Tuesday, May 16, 2023, at 2:00 p.m. HST**. The attached Notice to Bidders dated r5/2/2023 shall be incorporated and made part of the original Notice to Bidders.

2. TABLE OF CONTENTS

Delete the TABLE OF CONTENTS and replace it with the attached TABLE OF CONTENTS dated r5/2/2023.

3. SPECIAL PROVISIONS

Delete the entire SPECIAL PROVISIONS section and replace it with the attached SPECIAL PROVISIONS dated r5/2/2023.

4. SPECIFICATIONS

a. ARTICLE X – PROJECT DESCRIPTION

Delete page 10-9 and replace it with the attached page 10-9 dated r5/2/2023.

b. ARTICLE XII – PAVEMENT REPAIRS

Delete pages 12-5 thru 12-8 and replace it with the attached pages 12-5 thru 12-8 dated r5/2/2023.

c. ARTICLE XV – TRIAXIAL GEOGRID

Add and make a part of the SPECIFICATIONS the attached ARTICLE XV – TRIAXIAL GEOGRID dated r5/2/2023.

5. PROPOSAL

Delete page P-1 and replace it with the attached page P-1 dated r5/2/2023.

6. PROPOSAL SCHEDULE

Delete page P-7 and replace with the attached page P-7 dated r5/2/2023.

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.



DREANALEE K. KALILI

Deputy Director

Department of Transportation, Harbors

NOTICE TO BIDDERS
(Chapter 103D, Hawaii Revised Statutes)

The receiving of SEALED BIDS for PAVEMENT REPAIRS AT VARIOUS LOCATIONS, HILO HARBOR, HAWAII ISLAND, HAWAII – JOB S50203, will begin as advertised in HiePRO. Bidders are to register and submit bids through HiePRO only. See the following HiePRO link for important information on registering:

<https://hiepro.ehawaii.gov/welcome.html>.

Plans, specifications, proposal, contract forms, and any other applicable documents may be obtained from HiePRO.

Deadline to submit bids, scheduled for Friday, May 5, 2023, at 2:00 p.m. Hawaii Standard Time (HST), is HEREBY POSTPONED until **Tuesday, May 16, 2023, at 2:00 p.m. HST**. Bids received after said due date and time shall not be considered.



DREANALEE K. KALILI
Deputy Director
Department of Transportation, Harbors

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SPECIAL PROVISIONS

The General Provision is amended as follows:

A. ARTICLE I - TERMS, ABBREVIATIONS, AND DEFINITIONS

1. Section 1.3 Definitions: The definition for “Subcontractor” is amended by deleting it and replacing it with the following:

“Subcontractor – An individual, partnership, firm, corporation, or joint venture, or other legal entity, as licensed or required to be licensed under Chapter 444, Hawaii Revised Statutes (HRS), as amended, which enters into an agreement with the Contractor to perform a portion of the work.”

2. Add the following to section 1.3 Definitions.

“HAWAII ePROCUREMENT SYSTEM (HIePRO) - The State of Hawaii eProcurement System for issuing solicitations, receiving proposals and responses, and issuing notices of award.”

B. ARTICLE II – STANDARD PROVISIONS FOR COMPETITIVE SEALED BIDS AND AWARDS

1. 2.7 Request for Substitution of Specified Materials and Equipment Before Bid Opening is amended as follows:

- a. The last sentence in the first paragraph (lines 147 to 152) be replaced with the following:

“Where a bidder intends to use a material or equipment of an unspecified brand, make, or model, the bidder must submit a request to the Department for review and approval at the earliest date possible. Requests shall be submitted via email to the contact person listed in HIePRO for the solicitation and also posted as a question in HIePRO under the question/answer tab referencing the email with the request. The request must be posted in HIePRO no later than 17 calendar days before the bid opening date, not including the bid opening date.”

- b. The first sentence in the second paragraph (lines 154 to 156) shall be replaced with the following:

“It shall be the responsibility of the bidder to submit sufficient evidence based upon which a determination can be made by the Department that the alternate brand is a qualified equivalent.”

2. 2.8 Preparation and Delivery of Bid is amended as follows: Last paragraph (lines 189 to 192) shall be replaced with the following:

“The bidder shall submit the proposal in HiePRO. The proposal shall be UPLOADED to HiePRO prior to the bid opening date and time. Proposals received after said due date and time shall not be considered. Original (wet ink) proposal documents are not required to be submitted. The award will be made based on proposals uploaded in HiePRO. Any and all other additional documents explicitly designated and labeled as CONFIDENTIAL or PROPRIETARY shall be UPLOADED SEPARATELY to HiePRO.”

3. 2.11 Bid Security is amended as follows:

Delete 2.11(a) in its entirety and replace with the following:

“(a) Each bid shall be accompanied by bid security which is intended to protect the Department against failure or refusal of a bidder to execute the Contract for the work bid or to supply the required performance and payment bonds. In as much as the Contract to be executed is an Open-End Contract under which the Contract price, or total amount to be paid the Contractor cannot be determined at the time the Contract is executed, the bid security required shall be as follows:

Bid Security Amount\$15,000.00

Bid security shall be one of the following forms:

1. A deposit of legal tender,
2. A valid surety bid bond, underwritten by a company licensed to issue bonds in the State of Hawaii, or
3. A certificate of deposit; credit union share certificate; or cashier’s, treasurer’s, teller’s or official check drawn by or a certified check accepted by a bank, savings institution, or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration and payable at sight or unconditionally assigned to the Department. These instruments may be utilized only to a maximum of \$100,000.00. If the required amount totals over \$100,000.00, more than one instrument not exceeding \$100,000.00 each and issued by different financial institutions shall be accepted.

4. Proposal Guaranty listed in (1) and (3) shall be in its original form, and shall be received at the Contracts Office, Department of Transportation, Aliiimoku Hale, 869 Punchbowl Street, Room 105, Honolulu, Hawaii 96813 before the bid deadline.”

4. 2.12 Pre-Opening Modification or Withdrawal of Bids is amended by deleting 2.12 Pre-Opening Modification or Withdrawal of Bids in its entirety and replacing it with the following:

“2.12 Pre-Opening Modification or Withdrawal of Bids. A bidder may withdraw or modify a proposal after the bidder submits the proposal in HiePRO. Withdrawal or modification of proposal must be completed before the time set for the receiving of bids.”

5. 2.14 Public Opening of Bids is amended by deleting 2.14 Public Opening of Bids in its entirety.

6. 2.20 Bid Evaluation and Award is amended by replacing 2.20(a) and 2.20(b) with the following:

“(a) The award shall be made to the lowest, responsive, responsible bidder within 120 days after bid opening and shall be based on the criteria set forth in the invitation for bids. The Department may request the bidders to allow the Department to consider the bids for the issuance of an award beyond the 120-day period. Agreement to such an extension must be made by a bidder in writing. Only bidders who have agreed to such an extension will be eligible for the award.

(b) No bid shall be withdrawn or corrected for a period of 120 days after bid opening except for a mistake as described in this article; however, a bidder may withdraw a bid without penalty any time prior to award of the Contract if it finds it is unable to comply with the provisions regarding the employment of State of Hawaii residents as described in Section 7.2 and 103B-3, HRS.”

7. 2.24 Requirements of Contract Bonds is amended by deleting 2.24(c) in its entirety and replacing with the following:

“(c) Prior to execution of the Contract, the successful bidder shall file a good and sufficient performance bond and payment bond on the forms furnished by the Department, each in the amount equal to the following:

Performance and Payment Bond.....\$300,000.00”

C. ARTICLE VII – LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

1. 7.1 Insurance Requirements is amended by deleting paragraph “(b)(4) Builder’s Risk for All Work” in its entirety.

pavement, compaction testing, and all other incidental work required to complete this item.

Item 2 – Type “B” Repairs. Payment shall be made at the unit price bid per square yard in the Proposal Schedule for Type “B” Repairs. Such payment shall include removing three-inch deep existing asphalt pavement by cold planing, disposing of existing asphalt pavement, cleaning the existing asphalt pavement surfaces, applying bituminous tack coat, and placing three-inch thick State Mix No. III or Superpave 19 mm pavement, compaction testing, and all other incidental work required to complete this item.

Item 3 – Type “C” Repairs. Payment shall be made at the unit price bid per square yard in the Proposal Schedule for Type “C” Repairs. Such payment shall include removing two-inch deep existing asphalt pavement by cold planing, disposing of existing asphalt pavement materials, cleaning existing asphalt pavement surfaces, applying bituminous tack coat, placing new two-inch thick State Mix IV HMA pavement, and all other incidental work required to complete this item.

Item 4 – Type “D” Repairs. Payment shall be made at the unit price bid per square yard in the Proposal Schedule for Type “D” Repairs. Such payment shall include removing and relocating the existing removable bullrails to a temporary location, removing 1.5-inch deep existing asphalt pavement by cold planing, disposing of existing asphalt pavement materials, cleaning the existing asphalt pavement surfaces, applying bituminous tack coat, and placing new 1.5-inch thick State Mix V HMA pavement, compaction testing, returning the removable bullrails to their original locations, and all other incidental work required to complete this item.

Item 5 – Flowable Fill. Payment shall be made at the unit price bid per cubic yard in the Proposal Schedule for Flowable Fill. Such payment shall include filling existing holes with flowable fill material and all other incidental work required to complete this item.

Item 6 – Triaxial Geogrid. Payment shall be made at the unit price bid per square yard in the Proposal Schedule for Triaxial Geogrid. Such payment shall include installing new triaxial geogrid and all other incidental work required to complete this item.

Item 7 – Pavement Markings. Payment shall be made at the unit price bid per lineal foot in the Proposal Schedule for Pavement Markings. Such payment shall include laying out control points, cleaning pavement surfaces and placing new pavement markings, and all other incidental work required to complete this item.

Standard Specifications.

- G. Flowable Fill Material shall have a strength of 50-100 psi and shall conform to Section 314 “Controlled Low Strength Material For Utilities and Structures” of the Standard Specifications.

12.3 CONSTRUCTION CRITERIA

- A. The finished pavement shall be constructed to maintain the existing drainage patterns.
- B. Where more than one course of new asphalt pavement is placed, a tack coat shall be provided between each course.
- C. The new pavement shall be placed to provide a smooth riding transition between the new pavement and the existing areas.
- D. The new pavement shall be feathered into existing utility, hatches, drain inlets, valve covers and manholes.
- E. The completed thickness of the pavement repairs varies. Uniform slopes shall be maintained on the finished pavement surfaces. Thinner and thicker pavement surfaces shall be provided to maintain uniform slopes, fill low spots and minimize ponding.

12.4 CONSTRUCTION

- A. TYPE “A” REPAIRS – Type “A” Repairs shall be done in areas where the asphalt pavement is unraveled, torn, uplifted, subsided or otherwise damaged. Damage extends into the base course.

Type “A” Repairs shall include the following work:

- 1. The existing asphalt pavement and base course shall be removed to a depth of 10 inches below the existing grade by cold planing. Cold planing shall be done in accordance with Section 415 of the Standard Specifications. If the subbase is disturbed, the disturbed subbase material shall be compacted to at least 95 percent relative compaction. The removed asphalt pavement and base course shall not be reused as base material, and shall be hauled away daily from the job site and disposed of by the Contractor. **If holes are encountered after cold planing the existing asphalt pavement, flowable fill material shall be placed to fill the existing holes. New triaxial geogrid shall be placed on the prepared subbase.**

2. A bituminous tack coat shall be applied on the prepared subbase surface in accordance with Section 407.03 of the Standard Specifications.
 3. New 5-inch thick HMAB course shall be placed on a properly prepared subbase and shall conform to Section 301.03 of the Standard Specifications. The subbase shall be prepared conforming to the requirements of subsection 203.03(D) – Subgrade Preparation of the Standard Specifications.
 4. A bituminous tack coat shall be applied on HMAB course in accordance with Section 407.03 of the Standard Specifications.
 5. New 5-inch thick HMA pavement State Mix III or Superpave 19 mm shall be placed in accordance with Section 401.03 of the Standard Specifications. The finished pavement shall be smooth, dense, uniformly graded, well drained while maintaining existing drainage, and compacted to a density of not less than 92 percent nor greater than 97 percent of maximum theoretical specific gravity in accordance with AASHTO T 209 modified by deletion of Supplemental Procedure for Mixtures Containing Porous Aggregate.
- B. TYPE “B” REPAIRS – Type “B” Repairs shall be done at areas where the existing asphalt pavement is worn, uneven, slightly cracked and the base course is not damaged or contaminated.

Type “B” Repairs shall include the following work:

1. The existing asphalt pavement shall be removed to a depth of three inches below the existing grade by cold planing. Cold planing shall be done in accordance with Section 415 of the Standard Specifications. The removed asphalt pavement materials shall be hauled away daily from the job site and disposed of by the Contractor.
2. The pavement area shall be swept clean of all loose material, water, dirt, excess dust or other objectionable matter.
3. A bituminous tack coat shall be applied on the asphalt concrete base course in accordance with Section 407.03 of the Standard Specifications.
4. New three-inch thick HMA pavement State Mix III or Superpave 19 mm shall be placed in accordance with Section 401.03 of the Standard Specifications. The finished pavement shall be smooth, dense, uniformly graded, well drained while maintaining existing drainage, and compacted to not less than 92 percent nor greater than 97 percent of the maximum specific gravity determined in accordance with AASHTO T 209, modified

by deletion of Supplemental Procedure for Mixtures Containing Porous Aggregate.

- C. TYPE “C” REPAIRS – Type “C” Repairs shall be done at areas where the existing asphalt pavement is worn, uneven, slightly cracked and the base course is not damaged or contaminated.

Type “C” Repairs shall include the following work:

1. The existing asphalt pavement shall be removed to a depth of two inches below the existing grade by cold planing. Cold planing shall be done in accordance with Section 415 of the Standard Specifications. The removed asphalt pavement materials shall be hauled away daily from the job site and disposed of by the Contractor.
2. The pavement area shall be swept clean of all loose material, water, dirt, excess dust or other objectionable matter.
3. A bituminous tack coat shall be applied on the existing asphalt pavement surface in accordance with Section 407.03 of the Standard Specifications.
4. New two-inch thick HMA pavement State Mix IV shall be placed in accordance with Section 401.03 of the Standard Specifications. The finished pavement shall be smooth, dense, uniformly graded, well drained while maintaining existing drainage patterns. The pavement shall be placed to meet the criteria defined in paragraph 12.3 above.

- C. TYPE “D” REPAIRS – Type “D” Repairs shall be done at pier apron areas where the existing asphalt pavement is worn, uneven, or slightly cracked. For bidding purposes, repair thickness shall be 1.5 inches. Actual thickness will vary from one inch to two inches.

Type “D” Repairs shall include the following work:

1. To allow for paving work, the Contractor shall remove and relocate temporarily the existing bullrails to a designated location within the Harbor as determined by the Construction Engineer. The Contractor shall note the layout of the existing removable bullrails so that they may be returned to their original locations.
2. The existing asphalt pavement shall be removed completely down to the top surface of the existing concrete slab. Cold planing shall be done in accordance with Section 415 of the Standard Specifications. The removed asphalt pavement materials shall be hauled away daily from the job site and disposed of by the Contractor.

When cold planing the existing asphalt pavement, the Contractor shall exercise caution to prevent damage to the existing concrete slab, apron hatches, manhole covers, bollards, and other protrusions from the concrete slab.

3. The pavement area shall be swept clean of all loose material, water, dirt, excess dust or other objectionable matter.
 4. A bituminous tack coat shall be applied on the existing asphalt pavement in accordance with Section 407.03 of the Standard Specifications.
 5. New HMA pavement State Mix V shall be placed to match the existing grade of the adjacent pavement, and in accordance with Section 401.03 of the Standard Specifications. The finished pavement shall be smooth, dense, uniformly graded, well drained while maintaining existing drainage patterns. The pavement shall be placed to meet the criteria defined in paragraph 12.3 above.
 6. The pier apron shall not be subjected to excessive loads (above 500 pounds per square foot). Vibrating rollers shall not be allowed on the pier apron.
 7. The removed bullrails shall be put back to their original locations.
- E. The Contractor shall hire an independent qualified testing lab to verify asphalt pavement compaction requirements using field compaction testing in accordance with ASTM D2950, density test method by nuclear methods. Tests shall be performed at the minimum rate of three tests per 1,000 square yards.

12.5 PAYMENT – Payment for pavement repairs shall be made as described in Article X of these Specifications.

ARTICLE XV – TRIAXIAL GEOGRID

15.1 DESCRIPTION – This section describes furnishing and placing a triaxial geogrid on a prepared surface.

15.2 MATERIALS

- A. General. Unless otherwise indicated in the contract documents, geogrid shall be manufactured from a punched and drawn polypropylene material formed into a radially stable network of open equilateral apertures with six intersecting ribs at each junction and a minimum mid-rib aspect ratio of 1.50, to allow interlocking with the unbound aggregate or base course materials. The combination of the two materials creates an improved mechanically stabilized layer (MSL) with significantly improved properties and performance capabilities that quantifiably allows a designer to modify aggregate and/or pavement sections.
- B. Geogrid Acceptance. The manufacturer's certificate of compliance and certified test results from a nationally accredited U.S. testing laboratory on the product, tested within six months of the submittal date shall be submitted for approval. Additionally, the following shall be included in the submittal:
 - 1. Manufacturer's name, current address, and telephone number.
 - 2. Manufacturer's current Quality Assurance/Quality Control Manual.
 - 3. Full product name by trademark and product number.
 - 4. Geogrid polymer type(s).
 - 5. Recommended overlap.
 - 6. Six square yards of geogrid sample. Geogrid sample shall conform to requirements of Subsection 721.01(C) - Sampling.
- C. Sampling. Sampling shall be in accordance with ASTM D4354.
- D. Physical Properties. Physical property values in these specifications represent minimum average roll values and are included for quality assurance purposes only. Average test results for any individual roll tested within a lot sampled shall meet or exceed specified values.
- E. Packaging. Geogrids shall be provided in roll form of length and width to meet requirements.

- F. Identification. Unless otherwise indicated in the Contract documents, geogrid shall be identified in accordance with ASTM D4873 and this subsection. Include the following information:
1. Unique roll number serially designated.
 2. Manufacturer's lot numbers or control numbers.
 3. Name of geogrid manufacturer.
 4. Date of manufacture.
 5. Product brand name.
 6. Manufacturer's style or catalog designation of the geogrid.
 7. Roll width, in feet.
 8. Roll length, in feet.
 9. Net weight of geogrid.
- G. Storage and Handling. Geogrids shall be stored and handled in accordance with ASTM D4873 and this subsection. During shipment and storage, material shall not be exposed to sunlight or other forms of light that contain ultraviolet rays, for more than six months.
- H. Geogrid Pavement Modification Material. Material shall be Tensar TriAx TX7 Geogrid, as manufactured by Tensar International Corporation, or approved equal.
- I. Performance Requirements for Proposing Equal Geogrid Materials
1. Performance testing validation with Accelerated Pavement Tests (APT) at a facility in the U.S., in compliance with National Cooperative Highway Research Program Report 512 and Synthesis 325 and AASHTO R-50. A minimum of three APT shall be performed on paved structures and use the specific branded product proposed for use. Performance of pavement sections must be evaluated with standard highway moving wheel loads. Geogrid reinforced sections with thinner asphalt sections shall be compared to control section(s) with a thicker asphalt section. Test results are only valid if total equivalent single axle loads (ESAL) trafficked on each section tested falls within range of ESAL predicted in the design of those sections, with a minimum trafficking requirement of 800,000 ESAL at less than one-inch permanent surface deformation.

2. No proposed alternative equal geogrid will be accepted based on material index properties or explanations of performance based on testing of geogrid index properties, or the use of research conducted on other branded geogrid products (including those of similar manufacturing type). Geotextile materials shall not be considered as an alternate to geogrid materials for subgrade improvement, flexible pavement asphalt and aggregate base section modification.
3. Any submittal for an alternate MSL must be submitted at least two weeks in advance of the bid date. Submittals submitted less than two weeks before the bid date will be considered non-responsive and be considered invalid. The alternate MSL shall contain the following:
 - a. A written statement from the alternative pavement Design Engineer of record that the proper calibration and validation testing has been performed for the geogrid reinforcement utilized in the MSL in accordance with these specifications.
 - b. A submittal package that includes performance studies referenced in section 13.2.I.1 above and documented evidence of calibration and validation testing.
 - c. Any other information as requested by the Engineer.

15.3 CONSTRUCTION – Before placing triaxial geogrid, remove loose or extraneous material and prepare subbase according to the plan. Place triaxial geogrid under manufacturer’s instructions, longitudinally along roadway alignment, and with minimal wrinkles. Overlap adjacent edges of the rolls at least 1.5 feet in the direction the material is spread covering the geogrid. The geogrid may be cut to conform to curves.

15.4 PAYMENT – Payment for pavement repairs shall be made as described in Article X of these Specifications.

PROPOSAL TO THE STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HARBORS

PROJECT: PAVEMENT REPAIRS AT VARIOUS LOCATIONS,
HILO HARBOR, HAWAII ISLAND, HAWAII

PROJECT NO.: S50203

COMPLETION TIME: All work shall be completed within 12 MONTHS from
the date indicated in the Notice to Proceed from the
Department with an option to extend for two additional
12-month periods upon mutual agreement.

LIQUIDATED DAMAGES: ONE HUNDRED FIFTY AND NO/100 DOLLARS
(\$150.00) for each and every calendar day which the
Contractor has delayed the completion of this project.

ELECTRONIC SUBMITTAL: **The bidder shall submit the proposal in HiePRO. The
proposal shall be UPLOADED to HiePRO prior to the
bid opening date and time. See SPECIAL
PROVISIONS, Section 2.8 PREPARATION AND
DELIVERY OF BID, for additional information.**

DESIGN PROJECT MANAGER: MR. EMMANUEL LEGASPI
DEPARTMENT OF TRANSPORTATION
HARBORS
HALE AWA MOKU
79 S. NIMITZ HIGHWAY
HONOLULU, HAWAII 96813
PHONE: (808) 587-1875

PAVEMENT REPAIRS AT VARIOUS LOCATIONS, HILO HARBOR

HAWAII ISLAND, HAWAII

JOB S50203

PROPOSAL SCHEDULE

| Item No. | Item Description | Approx. Quantity (a) | Unit | Unit Price (b) | Amount Bid (a x b) |
|--|-------------------|----------------------|--------------|----------------|--------------------|
| 1 | Type "A" Repairs | 1000 | Square Yards | \$ _____ | \$ _____ |
| 2 | Type "B" Repairs | 1500 | Square Yard | \$ _____ | \$ _____ |
| 3 | Type "C" Repairs | 200 | Square Yard | \$ _____ | \$ _____ |
| 4 | Type "D" Repairs | 200 | Square Yard | \$ _____ | \$ _____ |
| 5 | Flowable Fill | 10 | Cubic Yard | \$ _____ | \$ _____ |
| 6 | Triaxial Geogrid | 100 | Square Yard | \$ _____ | \$ _____ |
| 7 | Pavement Markings | 1,000 | Lineal Foot | \$ _____ | \$ _____ |
| TOTAL AMOUNT FOR COMPARISON OF BIDS \$ _____ | | | | | |

The bidder shall submit the proposal in HIePRO. The proposal shall be **UPLOADED** to HIePRO prior to the bid opening date and time. Proposals received after said due date and time shall not be considered. Original (wet ink) proposal documents are not required to be submitted. The award will be made based on proposals uploaded in HIePRO. Any and all other additional documents explicitly designated and labeled as **CONFIDENTIAL** or **PROPRIETARY** shall be **UPLOADED SEPARATELY** to HIePRO.

Bids shall include all Federal, State, County and other applicable taxes and fees.

The TOTAL AMOUNT FOR COMPARISON OF BIDS will be used to determine the lowest responsible bidder.

Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.