ADDENDUM NUMBER TWO
To Contract Documents for:
CLIVE PUBLIC SAFETY FACILITY
SVPA Project No. 19056

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SVPA No. 19056
Clive Public Safety Facility
Clive, IA
This addendum is issued to modify, clarify, or amend the original Project Manual and/or Drawings and is hereby made part of the Contract Documents dated August 27, 2020. The Contractor shall be responsible for incorporating items in this Addendum to the Work. Attach this addendum to the Project Manual(s) in your possession. Acknowledge receipt of this Addendum by number where indicated on the Bid Form. Failure to do so may subject Bidder to disqualification. The following shall take precedence over anything to the contrary in the Project Manual, in the Drawings, or in prior Addenda

This Addendum consists of (9) pages and the following attachments:
(1) Page Boring Locations for Geotechnical Exploration
(10) Page Document AIA A701 2018
(2) Page Bidder Status Form
(3) Page New Section 072700
(1) 8 1/2 x 11 Supplemental Civil Drawing ADC-01

PRODUCT APPROVALS

Preliminary approvals of products are indicative of the general acceptability of the product based on the quality, manufacturer's and representative's integrity, availability of service and similar general considerations. Final approval will be contingent upon compliance with detailed Specifications.

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ADDENDUM NO. 2
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QUESTION AND RESPONSES

1. **What is Engineers Estimate for each Bid Package?**
   A. Bid Package #1 - $1,040,559.00
   B. Bid Package #2 - $970,706.00
   C. Bid Package #3 - $1,781,444.00
   D. Bid Package #4 - $1,076,474.00
   E. Bid Package #5 - $165,042.00
   F. Bid Package #6 - $1,840,255.00
   G. Bid Package #7 - $2,379,320.00
   H. Bid Package #8 - $177,420.00
   I. Bid Package #9 - $568,280.00
   J. Bid Package #10 - $287,477.00
   K. Bid Package #11 - $1,856,448.00

2. In reading through the specs, packages and general requirements, all temp heat and enclosures for the project are by other packages and not to be included in package 2 pricing correct? No ground heaters are to be anticipated, correct? It looks to me like the intent is to get the footings done and then the building shell up and then pump heat into the building so no ground thaw would be necessary prior to SOG prep and pour correct?
   A. Correct, that is the intent. Bid Package #7 is responsible for temporary heating of the building shell, as required.

3. If the preliminary schedule pushes and the some of the footing work pushes into winter conditions, will the City issue a change order for the winter costs for the portion of the footing work that would push into winter?
   A. If delays occur in the schedule that results in additional winter conditions expense, it shall be the responsibility of the contractor causing the delay to bear the expenses incurred.

4. **00 74 03 – Bid Package #3 – 1.4. B ... and prefinished brake metal cover...” Does Package #3 furnish & install the parapet cap flashing (as opposed to the roofing package furnishing & installing it)?**
   A. Parapet caps are to be provided by Roofing Bid Package, the prefinished brake in question is referring to detail 11/A501 & 15/A501.

5. **00 74 03 – Bid Package #3 – Lists “05 40 00 – Cold-Formed Metal Framing” in the scope sections. Are we to include the CFMF in package #3 or is that by Bid Package #4?**
   A. 05 40 00 Cold-Formed Metal Framing shall be the responsibility of Bid Package #4. All structural steel to be by Bid Package #03.

6. **00 74 02 – Bid Package #2 – 07 14 00 – Fluid-Applied Waterproofing & item 1.3. W. - All the footings are trench footings. Where is the foundation waterproofing & protection board required?**
   A. See detail 18/S201.

7. **00 74 06 - Bid Package #6 Electrical calls for relocation of guy wire and to coordinate with Mid-American. Typically this is a Mid-American only item.**
   A. Work is to be completed by Mid-American, DCI Group will coordinate the work.

8. **00 74 06 - Bid Package #6 Electrical calls for damage of existing utilities to be repaired by this contractor. This could be a large cost if damaged, how much should we anticipate for an allowance to cover this?**
   A. It shall be the responsibility of each contractor to coordinate locations for all underground utilities that may be impacted by their scope of work. Each contractor will be responsible for damage caused to utilities due to the actions of their bid package. It is not the intent that one bid package will be responsible for the damages caused by other bid packages. This does not negate the responsibility of each contractor to protect their work from damage.

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ADDENDUM NO. 2
00 90 00-5
9. MH502 ventilation schedule list CF-1 which are fans in apparatus 207 room. Is the mechanical contractor supplying and installing these fans since there listed in mechanical schedule?
   A. 00 74 06 calls for the electrical contractor to both supply and install all fans.
10. Is AIA Form 310 acceptable for bond?
    A. Yes
11. 07 27 00 is missing. Section 03 references this section for under slab vapor barrier.
    A. Section is included in Addendum 02.
12. Who will cover survey?
    A. Bid Package #01 shall be responsible for site staking required for their scope of work. See 00 7401 1.4.B - Site staking by a licensed land surveyor will be the responsibility of this Contractor. Bid Package #02 shall be responsible for all layout and surveying as needed for their installations.
13. Is there a map showing where soil boring locations were done on site? The Geotechnical Report seems to be missing the Exploration Plan showing these locations.
    A. See attached Exploration Plan.
14. Spec section 07 41 13 calls for concealed fastener wall panels FMP1 (Matrix 6.0) and FMP2 (F-24). Where are these panels to be installed?
    A. These panels are for the mechanical screen wall.
15. Alternate #1 – In regards to the roofing Bid Package, how many roof penetrations will be needed?
    A. The panels themselves will sit on pads and not require penetrations. The only penetrations required will be at the electrical feed into the building.
16. Alternate #2 - Is there any scope of work for roofing contractor on this?
    A. No, it is not anticipated that the UV lighting will affect the roofing scope.
17. Is there an instruction to bidders to explain how to submit the bid?
    A. See the attached instruction to bidders document.

**CHANGES TO THE PROCUREMENT DOCUMENTS**

1. **Section 00 21 13 Instruction to Bidders**
   A. Addition of a new specification section including the AIA Document A701 Instruction to Bidders and Bidder Status Form.
2. **Section 00 30 00 Information Available to Bidders**
   A. Addition of the Exploration Map identifying boring locations.

**CHANGES TO THE SPECIFICATIONS**

1. **Section 06 40 23 Interior Architectural Woodwork**
   A. Paragraph 2.6.B.2.c: Delete “Grade HGS” and replace with “Grade VGS”.
2. **Section 07 27 00 Underslab Vapor Barrier**
   A. Add this Section in its entirety, attached to this Addendum.
3. **Section 09 51 23 Acoustical Tile Ceilings**
   A. Paragraph 2.2.A.1: Add (0.90) to the end of the sentence for the NRC requirement.
   B. Paragraph 2.2.B.1: Add (0.90) to the end of the sentence for the NRC requirements.
4. **ADD** the following new Article 2.11 to Section 23 31 00.
   A. **GREASE EXHAUST DUCT (ROUND) PREFABRICATED SYSTEM**
      1. Ductwork shall have a 0.035” Type 304 stainless inner wall and 0.025” aluminized steel outer wall.
      2. 4” annular space between inner and outer walls shall be filled with 4” of high temperature ceramic fiber insulation.
3. Seal ductwork liquid-tight by mechanical joint consisting of integral flanges, with stainless steel flange band and sealed with type P080 sealant.

4. Ductwork shall include hood and fan transitions, cleanout ports, fire suppression and washdown nozzles, expansion joints, and other ductwork provided by manufacturer to ensure completely rated system.

5. Ductwork shall require zero clearance to combustibles. Seal and/or firestop ductwork through non-rated and up to two hour rated penetrations. Firestop with ductwork manufacturer approved materials.

6. Provide all duct access doors and labels required by NFPA 96. Provide access at each change in direction and at maximum 12-foot intervals.

7. Where grease ducts are 20" diameter or larger, install access for personnel to enter duct. Duct supports must be sized to support the duct weight and an additional 800 lbs. per NFPA 96.

8. Do not penetrate fire rated partitions, unless protected as required by applicable codes.


10. Grease exhaust duct doors shall be grease and airtight, UL 1978 listed, meet NFPA 96 standards, and all mechanical codes. Grease duct access doors can be sandwich type or with a weld-on frame, with/without hinge.

   a. Approved Manufacturer: Ductmate Industries “Ultimate Round” style door or approved equal

11. All grease duct access doors used must be accompanied by independent testing in conjunction with each manufacturer’s respective wrap system for high temperature applications.

12. Ductwork shall be rated for continuous operation at 500°F and intermittently at 2000°F.

5. **DELETE** the following row from Article 3.2, Ductwork Application Schedule, in Section 23 31 00:

<table>
<thead>
<tr>
<th>USAGE</th>
<th>MATERIAL</th>
<th>PRESSURE CLASS</th>
<th>SEAL CLASS</th>
<th>INSULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposed Supply Duct from Kitchen Make-Up Air Unit to Hood</td>
<td>Double Wall, Galvanized Sheet Metal (round or flat oval)</td>
<td>2&quot;</td>
<td>A</td>
<td>1&quot; thick Type E (R=3.7)</td>
</tr>
</tbody>
</table>
CHANGES TO THE DRAWINGS

1. C400 UTILITY PLAN
   A. Revise location of water main connection in NE corner of site to avoid a potential existing thrust block.
   B. Clarify the need to field verify location of existing water stub and church water service in southwest corner of site. Field adjusting the connection may be necessary if a thrust block existing in the proposed connection location.
   C. See attached Supplemental Drawing ADC-01.

2. A700 – FIRST FLOOR REFLECTED CEILING PLAN
   A. REVISE Training 162 ceiling height to be 9'-6" AFF.

3. MH101A - FLOOR PLAN - AREA A - VENTILATION
   A. ADD keynote 13 for clarification on ductwork type. Refer to attached revised drawing MH101A.

4. MH101B - FLOOR PLAN - AREA B - VENTILATION
   A. ADD keynote 17 for clarification on ductwork type. Refer to attached revised drawing MH101B.
   B. REVISE ductwork sizes above Training 162. Refer to attached revised drawing MH101B.

5. MH401 - VENTILATION CONTROLS
   A. REVISE Generator Monitoring Control description. Refer to attached revised drawing MH401.

6. MH500 - VENTILATION SCHEDULES
   A. REVISE RTU-1 electrical data. Refer to attached revised drawing MH500.
   B. REVISE DOAS-1 dimensional data. Refer to attached revised drawing MH500.

7. P10UA - UNDERFLOOR PLAN - AREA A - PLUMBING
   A. ADD FD, associated sanitary, and vent piping. Refer to attached revised drawing P10UA.

8. P101A - FLOOR PLAN - AREA A - PLUMBING
   A. ADD FD-1 and associated piping. Refer to attached revised drawing P101A.

9. P200 - PLUMBING ENLARGED PLANS
   A. REVISE sink in Kitchenette 164 to SK-5. Refer to attached revised drawing P200.
   B. REVISE sink in Break 122 to SK-5. Refer to attached revised drawing P200.

10. P600 - PLUMBING MATERIAL LIST
    A. REVISE SK-2 description. Refer to attached revised drawing P600.
    B. ADD SK-5. Refer to attached revised drawing P600.

11. E500 - LED LUMINAIRE SCHEDULE
    A. CLARIFICATION: Type F7, F7A, F7B - All leads and all components to be assembled at factory. Verify exact lengths with millwork provider prior to ordering.
    B. CLARIFICATION: Types P1, P1A, P2, P2A, P3 - provide with poles painted to match luminaire finish. Finish to be a minimum of 6 mil powder coat finish with a 5-year finish warranty.
    C. CLARIFICATION: Types P1 - provide with 15,221 absolute lumens.
    D. CLARIFICATION: Types P1A - provide with 7,535 absolute lumens.
    E. CLARIFICATION: Types P2 - provide with 14,200 absolute lumens.
    F. CLARIFICATION: Types P2A - provide with 6,497 absolute lumens.
    G. CLARIFICATION: Types P3 - provide with 6,660 absolute lumens.
    H. CLARIFICATION: Types S1 - provide with 4000K color temperature.

12. TC101A - FLOOR PLAN - AREA A - COMMUNICATIONS
    A. REVISE keynote 8 to read:
      "PLACE 4X4 BOX AT HEIGHT SHOWN AND ROUTE (1) 2" CONDUIT THRU ROOF ABOVE AND TERMINATE WITH WEATHERHEAD FASTENED TO STRUCTURE FOR DIRECT MOUNTING OF OFOI ANTENNA. ROUTE CONDUIT THRU 12x12x4 NEMA BOX MOUNTED AT STRUCTURE BELOW ROOF. ROUTE #6 GROUND WIRE FROM MC-1 GROUND BAR SC-GND-1 TO NEMA BOX, REFER TO 2/T300. BOND ADDITIONAL #6 GROUND WIRE TO CONDUIT JUST BELOW ROOF AND ROUTE TO NEMA BOX. PROVIDE 2' COILS OF BOTH GROUND CABLES IN NEMA BOX FOR CONNECTION TO OFOI SURGE SUPPRESSION."
    B. REVISE keynote 10 to read:
      "MOUNT 12X12X4 NEMA BOX ADJACENT TO ELECTRICAL DUPLEX FOR OFOI GPS REPEATER CONTROL PANEL. ROUTE (1) 2" CONDUIT THRU ROOF ABOVE AND TERMINATE WITH WEATHERHEAD FASTENED TO STRUCTURE FOR DIRECT MOUNTING
OF OFOI ANTENNA. ROUTE #6 GROUND WIRE FROM MC-1 GROUND BAR SC-GND-1 TO NEMA BOX, REFER TO 2/T300. BOND ADDITIONAL #6 GROUND WIRE TO CONDUIT JUST BELOW ROOF AND ROUTE TO NEMA BOX. PROVIDE 2’ COILS OF BOTH GROUND CABLES IN NEMA BOX FOR CONNECTION TO OFOI SURGE SUPPRESSION. NEMA BOX ALSO RECEIVES (4) 1” CONDUITS FROM INTERIOR ANTENNA LOCATIONS IN APPARATUS BAY, REFER TO KEYNOTE 9.”

13. TC101B - FLOOR PLAN - AREA B - COMMUNICATIONS

A. REVISE keynote 5 to read:

“PLACE 4X4 BOX AT +18” UNO AND ROUTE (1) 2” CONDUIT THRU ROOF ABOVE AND TERMINATE WITH WEATHERHEAD FASTENED TO STRUCTURE FOR DIRECT MOUNTING OF OFOI ANTENNA. ROUTE CONDUIT THRU 12x12x4 NEMA BOX MOUNTED AT STRUCTURE BELOW ROOF. ROUTE #6 GROUND WIRE FROM MC-1 GROUND BAR SC-GND-1 TO NEMA BOX, REFER TO 2/T300. BOND ADDITIONAL #6 GROUND WIRE TO CONDUIT JUST BELOW ROOF AND ROUTE TO NEMA BOX. PROVIDE 2’ COILS OF BOTH GROUND CABLES IN NEMA BOX FOR CONNECTION TO OFOI SURGE SUPPRESSION.”

END OF ADDENDUM 02
Instructions to Bidders

for the following Project:
(Name, location, and detailed description)

THE OWNER:
(Name, legal status, address, and other information)

THE ARCHITECT:
(Name, legal status, address, and other information)

TABLE OF ARTICLES

1. DEFINITIONS
2. BIDDER’S REPRESENTATIONS
3. BIDDING DOCUMENTS
4. BIDDING PROCEDURES
5. CONSIDERATION OF BIDS
6. POST-BID INFORMATION
7. PERFORMANCE BOND AND PAYMENT BOND
8. ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

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ARTICLE 1 DEFINITIONS
§ 1.1 Bidding Documents include the Bidding Requirements and the Proposed Contract Documents. The Bidding Requirements consist of the advertisement or invitation to bid Notice of Bid Letting, Instructions to Bidders, supplementary instructions to bidders, the bid form, and any other bidding forms. The Proposed Contract Documents consist of the unexecuted form of Agreement between the Owner and Contractor and that Agreement’s Exhibits, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, all Addenda, and all other documents enumerated in Article 8 of these Instructions.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, or in other Proposed Contract Documents apply to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect, which, by additions, deletions, clarifications, or corrections, modify or interpret the Bidding Documents.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents, to which Work may be added or deleted by sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from, or that does not change, the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment, or labor for a portion of the Work.

ARTICLE 2 BIDDER’S REPRESENTATIONS
§ 2.1 By submitting a Bid, the Bidder represents that:
1. the Bidder has read and understands the Bidding Documents;
2. the Bidder understands how the Bidding Documents relate to other portions of the Project, if any, being bid concurrently or presently under construction;
3. the Bid complies with the Bidding Documents;
4. the Bidder has visited the site, become familiar with local conditions under which the Work is to be performed, and has correlated the Bidder’s observations with the requirements of the Proposed Contract Documents;
5. the Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception; and
6. the Bidder has read and understands the provisions for liquidated damages, if any, set forth in the form of Agreement between the Owner and Contractor.

ARTICLE 3 BIDDING DOCUMENTS
§ 3.1 Distribution
§ 3.1.1 Bidders shall obtain complete Bidding Documents, as indicated below, from the issuing office designated in the advertisement or invitation to bid Notice of Bid Letting, for the deposit sum, if any, stated therein. (Indicate how, such as by email, website, host site platform, paper copy, or other method Bidders shall obtain Bidding Documents.)

Specifications and Bid Forms for the project are available from Action Reprographics at 5037 NE 14th Street, Des Moines, IA 50313. Alternatively, Bid Documents can be viewed at actionpro.com. Project documents will be loaned to qualified bidders upon receipt of either a Master Builders of Iowa non-cash deposit card, or a check for two-hundred and fifty dollars ($250.00) per set. Deposit checks will be refunded if

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User Notes:
documents are returned complete and in a reusable condition to Action Reprographics within fourteen (14) days after the award of the project. Checks are to be made to Action Reprographics. »

§ 3.1.2 Any required deposit shall be refunded to Bidders who submit a bona fide Bid and return the paper Bidding Documents in good condition within ten days after receipt of Bids. The cost to replace missing or damaged paper documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the paper Bidding Documents, and the Bidder’s deposit will be refunded.

§ 3.1.3 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the advertisement or invitation to bid, or in supplementary instructions to bidders.

§ 3.1.4 Bidders shall use complete Bidding Documents in preparing Bids. Neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete Bidding Documents.

§ 3.1.5 The Bidding Documents will be available for the sole purpose of obtaining Bids on the Work. No license or grant of use is conferred by distribution of the Bidding Documents.

§ 3.2 Modification or Interpretation of Bidding Documents

§ 3.2.1 The Bidder shall carefully study the Bidding Documents, shall examine the site and local conditions, and shall notify the Architect of errors, inconsistencies, or ambiguities discovered and request clarification or interpretation pursuant to Section 3.2.2.

§ 3.2.2 Requests for clarification or interpretation of the Bidding Documents shall be submitted by the Bidder in writing and shall be received by the Architect at least seven days prior to the date for receipt of Bids by 2:00 PM CST on September 10th, 2020. (Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidder shall submit requests for clarification and interpretation.)

«Questions to be submitted by email to Michael.Szoda@jopauls.com.»

§ 3.2.3 Modifications and interpretations of the Bidding Documents shall be made by Addendum. Modifications and interpretations of the Bidding Documents made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3 Substitutions

§ 3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

§ 3.3.2 Substitution Process

§ 3.3.2.1 Written requests for substitutions shall be received by the Architect at least ten days prior to the date for receipt of Bids by 2:00 PM on September 10th, 2020. Requests shall be submitted in the same manner as that established for submitting clarifications and interpretations in Section 3.2.2.

§ 3.3.2.2 Bidders shall submit substitution requests on a Substitution Request Form if one is provided in the Bidding Documents.

§ 3.3.2.3 If a Substitution Request Form is not provided, requests shall include (1) the name of the material or equipment specified in the Bidding Documents; (2) the reason for the requested substitution; (3) a complete description of the proposed substitution including the name of the material or equipment proposed as the substitute, performance and test data, and relevant drawings; and (4) any other information necessary for an evaluation. The request shall include a statement setting forth changes in other materials, equipment, or other portions of the Work, including changes in the work of other contracts or the impact on any Project Certification (such as LEED), that will result from incorporation of the proposed substitution.

§ 3.3.3 The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect’s decision of approval or disapproval of a proposed substitution shall be final.
§ 3.3.4 If the Architect approves a proposed substitution prior to receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3.5 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

§ 3.4 Addenda
§ 3.4.1 Addenda will be transmitted to Bidders known by the issuing office to have received complete Bidding Documents.

(Indicate how, such as by email, website, host site/platform, paper copy, or other method Addenda will be transmitted.)

§ 3.4.2 Addenda will be available where Bidding Documents are on file.

§ 3.4.3 Addenda will be issued no later than four-two days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Prior to submitting a Bid, each Bidder shall ascertain that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

§ 3.5 BID PACKAGE CONTRACT WORK
§ 3.5.1 Separate Lump Sum Bids will be received for the Bid Packages identified in the Notice to Bidders. Bids will be received and awarded with Work to be performed under separate contracts.

ARTICLE 4 BIDDING PROCEDURES
§ 4.1 Preparation of Bids
§ 4.1.1 Bids shall be submitted on the forms included with or identified in the Bidding Documents.

§ 4.1.2 All blanks on the bid form shall be legibly executed. Paper bid forms shall be executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and numbers, unless noted otherwise on the bid form. In case of discrepancy, the amount entered in words shall govern.

§ 4.1.4 Edits to entries made on paper bid forms must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter “No Change” or as required by the bid form.

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder’s refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall neither make additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name and legal status of the Bidder. As part of the documentation submitted with the Bid, the Bidder shall provide evidence of its legal authority to perform the Work in the jurisdiction where the Project is located. Each copy of the Bid shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further name the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached, certifying the agent’s authority to bind the Bidder.

§ 4.1.8 A Bidder shall incur all costs associated with the preparation of its Bid.
§ 4.2 Bid Security

§ 4.2.1 Each Bid shall be accompanied by a certified check, cashier’s check, certified share draft or Bid Bond in the amount equal to ten percent (10%) of the amount of the Bid as guarantee that the Bidder will furnish a one hundred percent (100%) Performance Bond and a Labor and Material Payment Bond, and within ten (10) days after the date of award will enter into a Contract with the Owner in accordance with the terms of the Bid. Bid security shall be made payable to City of Clive, the following bid security:
(Inset the form and amount of bid security.)

§ 4.2.2 The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and shall, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty. In the event the Owner fails to comply with Section 6.2, the amount of the bid security shall not be forfeited to the Owner.

§ 4.2.3 If a surety bond is required as bid security, it shall be written on AIA Document A310™, Bid Bond, unless otherwise provided in the Bidding Documents. The attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of an acceptable power of attorney. The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 4.2.4 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until (a) the Contract has been executed and bonds, if required, and certificate of insurance have been furnished; (b) the specified time has elapsed so that Bids may be withdrawn; or (c) all Bids have been rejected. However, if no Contract has been awarded or a Bidder has not been notified of the acceptance of its Bid, a Bidder may, beginning three (3) days after the opening of Bids, withdraw its Bid and request the return of its bid security.

§ 4.3 Submission of Bids

§ 4.3.1 A Bidder shall submit its Bid as indicated below:
(Indicate how, such as by website, host site platform, paper copy, or other method Bidders shall submit their Bid.)

§ 4.3.2 Paper copies of the Bid, the bid security, and any other documents required to be submitted with the Bid shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the Bids and shall be identified with the Project name, the Bidder’s name and address, and, if applicable, the designated portion of the Work for which the Bid is submitted. If the Bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation “SEALED BID ENCLOSED” on the face thereof.

§ 4.3.3 Bids shall be submitted by the date and time and at the place indicated in the invitation to bid. Bids submitted after the date and time for receipt of Bids, or at an incorrect place, will not be accepted.

§ 4.3.4 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.5 A Bid submitted by any method other than as provided in this Section 4.3 will not be accepted.

§ 4.3.5 Bidders may bid on more than one Bid Package; however, combined bids will not be accepted. Any alteration of the Bid Form may be cause for rejection of the Bid.

§ 4.3.6 Bidders are hereby given notice to check carefully the accuracy and arithmetic of their bids before submission. Errors in bids may result in rejection of that bid and award to the next low bidder.
§ 4.4 Modification or Withdrawal of Bid
§ 4.4.1 Prior to the date and time designated for receipt of Bids, a Bidder may submit a new Bid to replace a Bid previously submitted, or withdraw its Bid entirely, by notice to the party designated to receive the Bids. Such notice shall be received and duly recorded by the receiving party on or before the date and time set for receipt of Bids. The receiving party shall verify that replaced or withdrawn Bids are removed from the other submitted Bids and not considered. Notice of submission of a replacement Bid or withdrawal of a Bid shall be worded so as not to reveal the amount of the original Bid.

§ 4.4.2 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids in the same format as that established in Section 4.3, provided they fully conform with these Instructions to Bidders. Bid security shall be in an amount sufficient for the Bid as resubmitted.

§ 4.4.3 After the date and time designated for receipt of Bids, a Bidder who discovers that it made a clerical error in its Bid shall notify the Architect of such error within two days, or pursuant to a timeframe specified by the law of the jurisdiction where the Project is located, requesting withdrawal of its Bid. Upon providing evidence of such error to the reasonable satisfaction of the Architect, the Bid shall be withdrawn and not resubmitted. If a Bid is withdrawn pursuant to this Section 4.4.3, the bid security will be attended to as follows:

(Not the terms and conditions, such as Bid rank, for returning or retaining the bid security.)

ARTICLE 5 CONSIDERATION OF BIDS
§ 5.1 Opening of Bids
If stipulated in an advertisement or invitation to bid, or when otherwise required by law, Bids properly identified and received within the specified time limits will be publicly opened and read aloud. A summary of the Bids may be made available to Bidders.

§ 5.2 Rejection of Bids
Unless otherwise prohibited by law, the Owner shall have the right to reject any or all Bids. A Bid not accompanied by a required bid security or by other data required by the Bidding Documents, or a Bid which is in any way incomplete or irregular is subject to rejection.

§ 5.3 Acceptance of Bid (Award)
§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest responsive and responsible Bidder, provided the bid has been submitted in accordance with the requirements of the Bidding Documents. Unless otherwise prohibited by law, the Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner’s judgment, is in the Owner’s best interests.

§ 5.3.2 Unless otherwise prohibited by law, the Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the lowest responsive and responsible Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION
§ 6.1 Contractor’s Qualification Statement
Bidders to whom award of a Contract is under consideration shall submit to the Architect and Construction Manager, upon request and within the timeframe specified by the Architect, a properly executed AIA Document A305™, Contractor’s Qualification Statement, unless such a Statement has been previously required and submitted for this Bid.

§ 6.2 Owner’s Financial Capability
A Bidder to whom award of a Contract is under consideration may request in writing, fourteen days prior to the expiration of the time for withdrawal of Bids, that the Owner furnish to the Bidder reasonable evidence that financial arrangements have been made to fulfill the Owner’s obligations under the Contract. The Owner shall then furnish such reasonable evidence to the Bidder no later than seven days prior to the expiration of the time for withdrawal of Bids. Unless such reasonable evidence is furnished within the allotted time, the Bidder will not be required to execute the Agreement between the Owner and Contractor.
§ 6.3 Submittals
§ 6.3.1 After notification of selection for the award of the Contract, the Bidder shall, as soon as practicable, within ten (10) days or as stipulated in the Bidding Documents, submit in writing to the Owner through the Architect Construction Manager:

.1 designation of the Work to be performed with the Bidder's own forces;

.2 names of the principal products and systems proposed for the Work and the manufacturers and suppliers of each; and

.3 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

§ 6.3.2 The Bidder will be required to establish to the satisfaction of the Construction Manager, Architect and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Construction Manager will notify the Bidder if either the Owner or Architect, Construction Manager, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect or Construction Manager has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, withdraw the Bid or submit an acceptable substitute person or entity. The Bidder may also submit any required adjustment in the Base Bid or Alternate Bid to account for the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner, Construction Manager, and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner, Construction Manager, and Architect.

ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND
§ 7.1 Bond Requirements
§ 7.1.1 The Bidder shall furnish, in duplicate, a Performance Bond and Labor and Material Payment Bond, each in the amount of one hundred percent (100%) of the Contract Sum, issued by a responsible surety approved by the Owner and shall be on AIA Document A312. If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost of furnishing such bonds shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 7.1.4 Unless otherwise indicated below, the Penal Sum of the Payment and Performance Bonds shall be the amount of the Contract Sum.

(If Payment or Performance Bonds are to be in an amount other than 100% of the Contract Sum, indicate the dollar amount or percentage of the Contract Sum.)

§ 7.2 Time of Delivery and Form of Bonds
§ 7.2.1 The Bidder shall deliver the required bonds, together with the executed Owner-Contractor Agreement(s) and Certificate of Insurance, to the Owner not later than three (10) days following the date of execution of the Contract award. If the Work is to commence sooner in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this Section 7.2.1.

§ 7.2.2 Unless otherwise provided, the bonds shall be written on AIA Document A312, Performance Bond and Payment Bond.
§ 7.2.3 The bonds shall be dated on or after the date of the Contract Agreement between Owner and Contractor.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.

ARTICLE 8 ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

§ 8.1 Unless otherwise required in the Bidding Documents, the Agreement for the Work will be written on AIA Document A132-2009, Standard Form of Agreement Between Owner and Contractor Where the Basis of Payment Is a Stipulated Sum. Copies of the proposed Contract Documents have been made available to the Bidder and consist of the following documents:

AIA Document A101-2017, Standard Form of Agreement Between Owner and Contractor, unless otherwise stated below.

(Insert the complete AIA Document number, including year, and Document title.)

ARTICLE 9 SUPPLEMENTARY INSTRUCTIONS

§ 9.1 PREPARATION OF BIDS

§ 9.1.1 Bids shall be submitted on the Bid Form provided with the bidding Documents and shall be subject to all requirements of the Contract Documents and these Instructions to Bidders. The Bidder must bid all of the Alternates that pertain to the work included within the Bidder’s Bid Package. Special care shall be exercised in the preparation of Bids. All Bids must be regular in every respect and no interlineations, or special conditions shall be made or included in the bid form of the Bidder.

§ 9.1.2 Bidders shall carefully examine the Bidding Documents and construction site to obtain firsthand knowledge of existing conditions. The Contractors will not be given extra payments for conditions which can be determined by examining the site and Bidding Documents.

§ 9.2 SALES AND USE TAX

§ 9.2.1 The Bidder shall not include in the bid State of Iowa and Local Option Sales and Use Tax for building materials that will be incorporated into real property for this Project. Each Bid Package Contractor shall provide a list of subcontractors and sub-sub contractors with their Federal Identification Number to the Owner. The Owner will issue exemption certificates to contractors, subcontractors, sub-sub contractors and suppliers in order to eliminate tax from the construction materials following award of contracts. If material is purchased outside the state of Iowa and the other State requires that the contractors, subcontractors, and sub-sub contractors and suppliers pay sales tax, they are recommended to include this price in their Bid unless they are able to obtain a sales tax refund from said State.

§ 9.3 ERRORS IN BID

§ 9.3.1 Bidders or their authorized agents are expected to examine all Contract Documents, Drawings, Specifications, circulars, schedules, and other instructions pertaining to the Work. Failure to do so will be at the Bidder’s own risk and Bidder cannot secure relief on the plea of error in the Bid.

§ 9.4 CONTRACT TIME

§ 9.4.1 Bidder agrees to commence Work as soon as all required paperwork, bonds and insurance certificates are in place with Owner and all Contract Documents have been executed by all parties.
§ 10 LAW AND REGULATIONS
§ 10.1 The Bidder’s attention is directed to the fact that all applicable state laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over construction of the Contract are applicable the same as though herein written out in full. The selected Contractor will be expected to perform all Work under the awarded Contract in accordance with all applicable laws, rules, regulations and Owner policies and procedures.

§ 11 STATUTORY AUTHORITY
§ 11.1 In accordance with Iowa statutes, a resident bidder shall be allowed a preference as against a nonresident bidder from a state or foreign country if that state or foreign country gives or requires any preference to bidders from that state or foreign country, including but not limited to, any preference to bidders, the imposition of any type of labor force preference, or any other form of preferential treatment to bidders or laborers from that state or foreign country. The preference allowed shall be equal to the preference given or required by the state or foreign country in which the nonresident bidder is a resident. In the instance of a resident labor force preference, a nonresident bidder shall apply the same resident labor force preference to a public improvement in this state as would be required in the construction of a public improvement by the state or foreign country in which the nonresident bidder is a resident.

§ 11.2 In accordance with Department of Labor Rules located at 875 IAC 156.2, the Owner requests a statement from each bidder regarding the bidder’s resident status. This statement shall be on the Bidder Status Form designated by the labor commissioner and available online at: http://www.iowaworkforce.org/labor/bidderstatusform.pdf. This statement shall require each bidder to certify whether the bidder is a resident bidder or non-resident bidder. In the case of a resident bidder to certify whether the bidder is a resident bidder or non-resident bidder. In the case of a resident bidder, the statement shall require the resident bidder to identify each office at which the resident bidder has conducted business in the state during the previous three years and the dates on which the resident bidder conducted business at each office. In the case of a non-resident bidder, the statement shall require the non-resident bidder to identify the non-resident bidder’s home state or foreign country as reported to the Iowa Secretary of State, to identify each preference offered by the non-resident bidder’s home state or foreign country, and to certify that, except as set forth on the form, there are no other preferences offered by the non-resident bidder’s home state or foreign country. The statement shall include such other additional information as requested by the labor commissioner form. The statement must be signed by an authorized representative of the bidder. A fully completed statement shall be deemed to be incorporated by reference into all project bid specifications and contract documents with any bidder on the project. Failure by any bidder to provide a completed statement with its bid may result in the Owner rejecting the bid as non-responsive.

.2 AIA Document A101™-2017, Exhibit A, Insurance and Bonds, unless otherwise stated below:
   (Insert the complete AIA Document number, including year, and Document title)

.3 AIA Document A201™-2017, General Conditions of the Contract for Construction, unless otherwise stated below:
   (Insert the complete AIA Document number, including year, and Document title)

.4 AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, dated as indicated below:
   (Insert the date of the E203-2013)

.5 Drawings

   Number | Title | Date

.6 Specifications
<table>
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<tr>
<th>Section</th>
<th>Title</th>
<th>Date</th>
<th>Pages</th>
</tr>
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</table>

**7. Addenda:**

<table>
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<th>Number</th>
<th>Date</th>
<th>Pages</th>
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**8. Other Exhibits:**

*Check all boxes that apply and include appropriate information identifying the exhibit where required:*

- [ ] AIA Document E204™-2017, Sustainable Projects Exhibit, dated as indicated below.
  (Insert the date of the E204-2017.)

- [ ] The Sustainability Plan:

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<th>Title</th>
<th>Date</th>
<th>Pages</th>
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- [ ] Supplementary and other Conditions of the Contract:

<table>
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<tr>
<th>Document</th>
<th>Title</th>
<th>Date</th>
<th>Pages</th>
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</table>

**9. Other documents listed below:**

*List here any additional documents that are intended to form part of the Proposed Contract Documents:*

---

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User Notes:
Bidder Status Form

To be completed by all bidders

Part A

Please answer “Yes” or “No” for each of the following:

☐ Yes ☐ No My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet on the next page).

☐ Yes ☐ No My company has an office to transact business in Iowa.

☐ Yes ☐ No My company’s office in Iowa is suitable for more than receiving mail, telephone calls, and e-mail.

☐ Yes ☐ No My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.

☐ Yes ☐ No My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.

If you answered “Yes” for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.

If you answered “No” to one or more questions above, your company is a nonresident bidder. Please complete Parts C and D of this form.

Part B

To be completed by resident bidders

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: __________________________

City, State, Zip: __________________________

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: __________________________

City, State, Zip: __________________________

Dates: _____ / _____ / _____ to _____ / _____ / _____ Address: __________________________

City, State, Zip: __________________________

You may attach additional sheet(s) if needed.

Part C

To be completed by non-resident bidders

1. Name of home state or foreign country reported to the Iowa Secretary of State:

________________________________________________________________________

2. Does your company’s home state or foreign country offer preferences to resident bidders, resident labor force preferences or any other type of preference to bidders or laborers? ☐ Yes ☐ No

3. If you answered “Yes” to question 2, identify each preference offered by your company’s home state or foreign country and the appropriate legal citation.

________________________________________________________________________

________________________________________________________________________

You may attach additional sheet(s) if needed.

Part D

To be completed by all bidders

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be a reason to reject my bid.

Firm Name: ____________________________________________________________

Signature: __________________________________ Date: ________________________

You must submit the completed form to the governmental body requesting bids per 875 Iowa Administrative Code Chapter 156. This form has been approved by the Iowa Labor Commissioner.

308-6001 (09-15) SP2-2
Worksheet: Authorization to Transact Business

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

☐ Yes ☐ No  My business is currently registered as a contractor with the Iowa Division of Labor.

☐ Yes ☐ No  My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.

☐ Yes ☐ No  My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.

☐ Yes ☐ No  My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.

☐ Yes ☐ No  My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa secretary of state, has filed its most recent biennial report with the secretary of state, and has neither received a certificate of withdrawal from the secretary of state nor had its authority revoked.

☐ Yes ☐ No  My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.

☐ Yes ☐ No  My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.

☐ Yes ☐ No  My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.

☐ Yes ☐ No  My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.

☐ Yes ☐ No  My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.

☐ Yes ☐ No  My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.
SECTION 07 27 00
UNDER-SLAB VAPOR BARRIER

PART 1 – GENERAL

1.1 SUMMARY

A. Products Supplied Under This Section
   1. Vapor Barrier, seam tape, mastic, pipe boots, detail strip for installation under concrete slabs.

B. Related Sections
   1. Section 03 33 00 Cast-in-place Concrete

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM)
   3. ASTM E154 - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs.
   4. ASTM E1643 - Standard Practice for Installation of Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs.
   5. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs.

B. American Concrete Institute (ACI):
   1. ACI 302.2R-06 Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials.

1.3 SUBMITTALS

A. Quality Control / Assurance
   1. Independent laboratory test results showing compliance with ASTM & ACI Standards. ASTM E1745 testing must be performed on a single production roll per ASTM E1745 Section 8.1.
   2. Manufacturer’s samples, literature
   3. Manufacturer’s installation instructions for placement, seaming and pipe boot installation
   4. Single source: All materials and accessories must be provided by manufacturer and meet manufacturer’s written approval.
   5. 12x12 sample of each product being provided by contractor.

1.4 PRE-INSTALLATION MEETING

A. General Contractor to have vapor barrier installer attend cast-in-place concrete pre-installation meeting.
PART 2 – PRODUCTS

2.1 MATERIALS

A. Vapor Barrier
   1. Vapor Barrier must have the following qualities
      a. Strength: ASTM E 1745 Class A.
      b. Permeance Rating: ASTM E-96 Less than 0.01 perms after mandatory conditioning tests per ASTM E 1745 (7.1.1-7.1.5), not less than 15 mils (0.375 mm) thick.
      c. Puncture Resistance: ASTM D-1709 minimum 2200 grams
      d. Tensile Strength: ASTM D-88s minimum 50.0 lbf/in

2. Vapor Barrier Products
   a. Basis of Design: Stego Wrap (15 mil) Vapor Barrier by STEGO INDUSTRIES LLC, San Juan Capistrano, CA (877) 464-7834 www.stegoindustries.com
   b. Reef-Industries - Vaporguard.
   c. Fortifiber Moistop Ultra 15 mil.
   d. Substitutions: Not allowed.

2.2 ACCESSORIES

A. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.

B. Adhesive for Vapor Retarders: Product recommended by vapor-retarder manufacturer and has demonstrated capability to bond vapor retarders securely to substrates indicated.

C. Mastic: Product recommended by vapor-retarder manufacturer for sealing vapor barrier penetrations.

D. Pipe Boots: Manufacturer’s standard, factory-fabricated boots, manufactured of 15 mil vapor barrier material.

E. Perimeter/Edge Seals: Manufacturer-recommended two-sided seaming tape and/or termination bars.
   1. Stego “Crete Claw” preferred for Stego installations.
   2. Stego “Stegotack” tape with term bar.
   3. Use of single-sided seaming tape to seal perimeter must be submitted to architect for pre-approval.

PART 3 – EXECUTION

3.1 PREPARATION

A. Ensure that subsoil is approved by architect or geotechnical firm
   1. Level and tamp or roll aggregate, sand or tamped earth base.

3.2 INSTALLATION

A. Install vapor barrier in accordance ASTM E1643.
   1. Unroll vapor barrier with the longest dimension parallel with the direction of the concrete placement and face laps away from the expected direction of the placement whenever possible.
2. Extend vapor barrier to the perimeter of the slab. If practicable, terminate it at the top of the slab, otherwise (a) at a point acceptable to the structural engineer or (b) where obstructed by impediments, such as dowels, waterstops, or any other site condition requiring early termination of the vapor barrier. At the point of termination, seal vapor barrier to the foundation wall, grade beam or slab itself.

   a. Seal vapor barrier to the entire slab perimeter using Stego Crete Claw, per manufacturer's instructions.

   OR

   b. Seal vapor barrier to the entire perimeter wall or footing/grade beam with double sided tape, or both termination bar and double-sided tape, per manufacturer's instructions. Ensure concrete is clean and dry prior to adhering tape.

3. Overlap joints 6 inches and seal with manufacturer's seam tape.

4. Apply seam tape/Crete Claw to clean and dry vapor barrier.

5. Seal all penetrations (including pipes) per manufacturer's instructions.

6. Avoid the use of non-permanent stakes driven through vapor retarder.

7. If non-permanent stakes are driven through vapor retarder, repair as recommended by vapor retarder manufacturer.

8. Repair damaged areas with vapor barrier material of similar (or better) permeance, puncture and tensile strength.

B. Prior to concrete placement, receive letter from vapor barrier manufacturer verifying installation is per ASTM E1643.

END OF SECTION 07 27 00
CONNECT TO EXISTING WATER MAIN EAST OF 90° BEND TO AVOID THRUST BLOCK. FIELD VERIFY EXISTING WATER MAIN AND ADJUST AS NECESSARY.

FIELD VERIFY EXISTING WATER MAIN STUB AND CHURCH SERVICE LOCATIONS. ADJUST LOCATION OF WATER MAIN CONNECTION AS NECESSARY IF THRUST BLOCK IS LOCATED AT PROPOSED CONNECTION POINT.
### Schedule General Notes

- This schedule is intended for use on the project.
- It includes information related to the project's equipment and systems.
- The schedule covers various systems such as air conditioning and electrical.
- Specific notes are provided for each section.

### Package Rooftop Unit Schedule – DX (Cooling Only) - Part 1

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### Package Rooftop Unit Schedule – DX (Cooling Only) - Part 2

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### Dedicated Outdoor Air Unit – Part 1

- This part includes specific details for dedicated outdoor air units.
- The units are designed to ensure proper ventilation and temperature control.
- Detailed specifications are provided for each unit.

### Dedicated Outdoor Air Unit – Part 2

- This part continues with additional details for dedicated outdoor air units.
- It covers specific features and requirements for the units.
- Specific notes are provided for each unit.

### Make-Up Air Unit Schedule

- This schedule covers make-up air units, which are essential for maintaining indoor air quality.
- Specific details are provided for each unit, including model numbers and specifications.

### Make-Up Air Unit Schedule – Gas - DX

<table>
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### Fan Schedule

- This section covers the fans used in the system, including their specifications.
- Specific details are provided for each fan, including model numbers and performance ratings.

### Motor Operated Damper Schedule

- This schedule covers the motor-operated dampers used in the system.
- Specific details are provided for each damper, including model numbers and specifications.

### Schematic Diagrams

- The diagrams provide a visual representation of the system layout and connections.
- They are crucial for understanding the interconnections and flow of the system.