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|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                       | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>1<br>of<br>67 |   |

**INVITATION FOR BID#: IFB 21-02 | SFB #BRG-DSGN-00098**

**MATERIAL OR SERVICE:** **REQUEST FOR BIDS**

**PLANS AVAILABLE:** **December 4, 2020**

**DUE DATE AND TIME:** **December 18, 2020 at 10:00AM**

**BID OPENING DATE:** **December 18, 2020 at 10:30AM**

**AWARD CONTRACT (ESTIMATE):** **January 14, 2021**

**OPENING LOCATION:** **Santa Cruz Valley Unified School District Office  
570 Camino Lito Galindo  
Rio Rico, AZ 85648  
Attention: Lourdes Ocampo, Purchasing Department  
[locampo@scv35.org](mailto:locampo@scv35.org)**

**PRE-BID CONFERENCE DATE|TIME:** **There will be no Pre-Bid Conference**

**PRE-BID CONFERENCE LOCATION:** **N/A**

**SUBSTITUTION REQUESTS, DUE BY EMAIL:** **December 14, 2020 at 2:00PM**

**QUESTIONS, DUE BY EMAIL:** **No later than December 14, 2020 at 2:00PM/AZ Time**

In accordance with School District Procurement Rules in the Arizona Administrative Code (A.A.C.) promulgated by the State Board of Education pursuant to A.R.S. 15-213, bids for the material or services specified will be received by the Santa Cruz Valley Unified School District No. 35, at the above specified location, until the time and date cited. Bids received by the correct time and date shall be opened and the Offeror's submitting shall be publicly read. All other information contained in the bid shall remain confidential until award is made. If you need directions to our office, please call (520) 281-8282.

Lourdes Ocampo  
 Purchasing  
 (520) 375-8272  
[locampo@scv35.org](mailto:locampo@scv35.org)

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Three (3) sets of the bid package are requested: one marked "Original", one marked "Copy", and one electronic copy on a USB. Should the hard copy and USB copy inadvertently have a discrepancy, the hard copy shall prevail. Bids shall be in the actual possession of the District, at the location indicated, on or prior to the exact time and date indicated above. Late bids shall not be considered. Bids must be submitted in a sealed envelope with the solicitation number and Offeror's name and address clearly indicated on the package. All bids must be written legibly in ink or typewritten. Additional instructions for preparing a bid are provided herein.

**VENDORS ARE STRONGLY ENCOURAGED TO CAREFULLY READ THE ENTIRE INVITATION FOR BID.**

Questions regarding this Invitation for Bid should be directed to:

**Lourdes Ocampo, Purchasing**  
 Email : [locampo@scv35.org](mailto:locampo@scv35.org)

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**DOCUMENTS REFERENCED**

You may access a copy of the documents referenced within this bid at the following web addresses:

**Arizona Revised Statutes (A.R.S.) is available at:** <https://www.azleg.gov>

**The Arizona School District Procurement Rules in the Arizona Administrative Code is available at:** [https://apps.azsos.gov/public\\_services/Title\\_07/7-02.pdf](https://apps.azsos.gov/public_services/Title_07/7-02.pdf)

**I.R.S. W-9 Form (Request for Taxpayer I.D. Number) is available at:** <http://www.irs.gov/pub/irs-pdf/iw9.pdf>



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## UNIFORM INSTRUCTIONS TO OFFERORS

### 1. Definition of Terms

As used in these instructions, the terms listed below are defined as follows:

- I. **“Attachment”** means any item the Solicitation requires an Offeror to submit as part of the Offer.
- II. **“Contract”** means the combination of the Solicitation, including the uniform and Special Instructions to Offerors, the Uniform and Special Terms and Conditions, and the Specifications and Statement or Scope of Work; the Offer and any Best and Final Offers; and any Solicitation Amendments (Addenda) or Contract Amendments; and any terms applied by law.
- III. **“Contract Amendment”** means a written document signed by the Procurement Officer that is issued for the purpose of making changes in the Contract.
- IV. **“Contractor”** means any person who has a contract with the School District.
- V. **“Days”** means calendar days unless otherwise specified.
- VI. **“Exhibit”** means any item labeled as an Exhibit in the Solicitation or placed in the Exhibits section of the solicitation.
- VII. **“Gratuity”** means a payment, loan, subscription, advance, deposit of money, services, or anything of more than nominal value present or promised, unless consideration of substantially equal or greater value is received.
- VIII. **“Offer”** means bid, proposal or quotation.
- IX. **“Offeror”** means a vendor who responds to a Solicitation.
  - X. **“Procurement Officer”** means the person duly authorized to enter into and administer Contracts and make written determinations with respect to the Contract or his or her designee.
- XI. **“Responsible Offeror”** means the Offeror who has the capability to perform the contract requirements and the integrity and reliability to assure complete and good faith performance and who submits the lowest bid.
- XII. **“Responsive Offeror”** means the Offeror who submits a bid that conforms in all material respects to this Invitation for Bid, Instruction to Offeror and the Plans and Specifications which are incorporated herein by this reference.
- XIII. **“Solicitation”** means an Invitation for Bids (IFB), a Request for Proposals (RFP), or a Request for Quotations (RFQ).
- XIV. **“Solicitation Amendment (or Addendum)”** means a written document that is authorized by the Procurement Officer and issued for the purpose of making changes to the Solicitation.
- XV. **“Subcontract”** means any Contract, express or implied, between the Contractor and another party or between a subcontractor and another party delegating or assigning, in whole or in part, the making or furnishings of any material or any service required for the performance of the Contract.
- XVI. **“School District”** means the School District that executes the contract.

### 2. Inquiries

**Duty to Examine.** It is the responsibility of each Offeror to examine the entire Solicitation, seek clarification in writing, and check its Offer for accuracy before submitting the Offer. Lack of care in preparing an Offer shall not be grounds for withdrawing the Offer after the Offer due date and time nor shall it give rise to any Contract claim.

- I. **Solicitation Contact Person.** Any inquiry related to a Solicitation, including any requests for or inquiries regarding standards referenced in the Solicitation shall be directed solely to the Solicitation contact person.

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The Offeror shall not contact or direct inquiries concerning this Solicitation to any other employee unless the Solicitation specifically identifies a person other than the Solicitation contact person as a contact.

- II. **Submission of Inquiries.** The Procurement Officer or the person identified in the Solicitation as the contact for inquiries may require that an inquiry be submitted in writing. Any inquiry related to a Solicitation shall refer to the appropriate Solicitation number, page, and paragraph. Do not place the Solicitation number on the outside of the envelope containing that inquiry since it may then be identified as an Offer and not be opened until after the Offer due date and time.
- III. **Timeliness.** Any inquiry shall be submitted as soon as possible and at least seven (7) days before the Offer due date and time. Failure to do so may result in the inquiry not being answered.
- IV. **No Right to Rely on Verbal Responses.** Any inquiry that results in changes to the Solicitation shall be answered solely through a written Solicitation Amendment or Addendum. An Offeror may not rely on verbal responses to inquiries.
- V. **Solicitation Amendments/Addenda.** The Solicitation shall only be modified by a Solicitation Amendment or Addendum.
- VI. **Pre-Offer Conference.** If a pre-offer conference has been scheduled under this Solicitation, the date, time, and location appear on the Solicitation cover sheet or elsewhere in the Solicitation. An Offeror should raise any questions it may have about the Solicitation or the procurement at that time. An Offeror may not rely on any verbal responses to questions at the conference. Material issues raised at the conference that result in changes to the Solicitation shall be answered solely through a written Solicitation Amendment or Addendum.
- VII. **Persons with Disabilities.** Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting the appropriate Solicitation contact person. Requests shall be made as early as possible to allow time to arrange the accommodation.

### 3. Offer Preparation

- I. **Forms: No Facsimile or Electronic Offers.** An Offer shall be submitted either on the forms provided in this Solicitation or their substantial equivalent. Any substitute document for the forms provided in this Solicitation will be legible and contain the same information requested on the form. A facsimile, electronic or mailgram offer shall be rejected.
- II. **Typed or Ink; Corrections.** The Offer must be typed or in ink. Erasures, interlineations or other modifications in the Offer must be initialed in ink by the person signing the Offer. Modifications shall not be permitted after Offers have been opened except as otherwise provided under applicable law.
- III. **Evidence of Intent to be Bound.** The Offer and Acceptance form within the Solicitation must be submitted with the Offer and must include a signature by a person authorized to sign the Offer. The signature shall signify the Offeror's intent to be bound by the Offer and the terms of the Solicitation and that the information provided is true, accurate, and complete. Failure to submit verifiable evidence of intent to be bound, such as an original signature, may result in rejection of the Offer.
- IV. **Exceptions to Terms and Conditions.** All exceptions included with the Offer shall be submitted in a clearly identified separate section of the Offer in which the Offeror clearly identifies the specific paragraphs of the Solicitation where the exceptions occur. Any exceptions not included in such a section shall be without force and effect in any resulting Contract unless such exception is specifically referenced by the Procurement Officer in a written statement. The Offeror's preprinted or standard terms will not be considered as a part of any resulting Contract.
- V. **Subcontracts.** Offeror shall clearly list any proposed subcontractors and the subcontractor's proposed responsibilities in the Offer.
- VI. **Cost of Offer Preparation.** The District will not reimburse any Offeror the cost of responding to a Solicitation.

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- VII. **Solicitation Amendments/Addenda.** Unless otherwise stated in the Solicitation, each Solicitation Amendment or Addendum shall be signed with an original signature by the person signing the Offer due date and time. Failure to return a signed copy of a material Solicitation Amendment or Addendum or to follow the instructions for acknowledgement of the Solicitation Amendment/Addendum may result in rejection of the Offer.
- VIII. **Federal Excise Tax.** School Districts are exempt from Federal Excise Tax on manufactured goods. Exemption Certificates will be prepared upon request.
- IX. **Provision of Tax Identification Numbers.** Offerors are required to provide their Arizona Transaction Privilege Tax number and/or Federal Employer Identification number, if applicable, in the space provided on the Offer and Acceptance Form and provide the tax rate and amount, if applicable, on the Cost Form.
- X. **Identification of Taxes in Offer.** School Districts are subject to all applicable state and local transaction privilege taxes. If Arizona resident Offerors do not indicate taxes on a separate item in the Offer, the School District will conclude that the price(s) offered includes all applicable taxes.
- XI. **Disclosure.** If the Firm, business, or person submitting this Offer has been debarred, suspended, or otherwise lawfully precluded from participating in any public procurement activity, including being disapproved as a subcontractor with any federal, state, or local government, or if any such preclusion from participation from any public procurement activity is currently pending, the Offeror must fully explain the circumstances relating to the preclusion or proposed preclusion in the Offer. The Offeror shall include a letter with its Offer setting forth the name and address of the governmental unit, the effective date of this suspension or debarment, the duration of the suspension or debarment, and the relevant circumstances relating to the suspension or debarment. If suspension or debarment is currently pending, a detailed description of all relevant circumstances including the details enumerated above must be provided.
- XII. **Solicitation Order of Precedence.** In the event of a conflict in the provisions of this Solicitation, the following shall prevail in the order set forth below:
1. Addenda/Amendments;
  2. Special Terms and Conditions;
  3. Uniform General Terms and Conditions;
  4. Statement of Scope of Work;
  5. Specifications;
  6. Attachments;
  7. Exhibits;
  8. Special Instructions to Offerors; and
  9. Uniform Instructions to Offerors
- XIII. **Delivery.** Unless stated otherwise in the Solicitation, all prices shall be F.O.B. Destination and shall include all delivery and unloading at the destination(s).

#### 4. Submission of Offer

- I. **Sealed Envelope or Package.** Each Offer shall be submitted to the submittal location identified in this Solicitation, in a sealed envelope or package that identifies its contents as an Offer and the Solicitation number to which it responds. The appropriate Solicitation number shall be plainly marked on the outside of the envelope or package.
- II. **Offer Amendment or Withdrawal.** An Offer may not be amended or withdrawn after the Offer due date and time except as otherwise provided under applicable law.
- III. **Public Record.** Under applicable law, all Offers submitted and opened are public records and must be retained by the School District. Offers shall be open to public inspection after Contract award, except for such Offers deemed to be confidential by the School District. If an Offeror believes that information in its

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Offer should remain confidential, it shall stamp as confidential that information and submit a statement with its Offer detailing the reasons that information should not be disclosed. The School District shall make a determination on whether the stamped information is confidential pursuant to the School District's Procurement Code.

IV. **Non-collusion, Employment, and Services.** By signing the Offer and Acceptance form and notarization the non-collusion affidavit or other official contract form, the Offeror certifies that:

1. It did not engage in collusion or other anti-competitive practices in connection with the preparation or submission of its offer; and
2. It does not discriminate against any employee, applicant for employment, or person to whom it provides services because of race, color, religion, sex, national origin, or disability, and that it complies with all applicable federal, state, and local laws and executive orders regarding employment.

## 5. Additional Bid Information

- I. **Unit Price Prevails.** Where applicable, in the case of discrepancy between the unit price or rate and the extension of that unit price or rate, the unit price or rate shall govern.
- II. **Late Offers.** An offer submitted after the exact Offer due date and exact time shall be rejected.
- III. **Disqualification.** The Offer of an Offeror who is currently debarred, suspended or otherwise lawfully prohibited from any public procurement activity may be rejected.
- IV. **Offer Acceptance Period.** An Offeror submitting an Offer under this Solicitation shall hold its Offer open for the number of days from the Offer due date that is stated in the Solicitation. If the Solicitation does not specifically state a number of days for the Offer acceptance, the number of days shall be ninety (90).
- V. **Payment.** Payments shall comply with the requirements of A.R.S. Titles 35 and 41, Net 30 days. Upon receipt and acceptance of goods or services, the Contractor shall submit a complete and accurate invoice for payment within thirty (30) days.
- VI. **Waiver and Rejection Rights.** Notwithstanding any other provision of the solicitation, the School District reserves the right to:
  1. Waive any minor informality;
  2. Reject any and all offers or portions thereof; or
  3. Cancel a solicitation.

## 6. Award

- A. **Number or Types of Awards.** Where applicable, the School District reserves the right to make multiple awards or to award a Contract by individual line items, by a group of line items, or to make an aggregate award, whichever is deemed most advantageous to the School District. If the Procurement Officer determines that an aggregate award to one Offeror is not in the School District's interest, "all or none" Offers shall be rejected.
- B. **Contract Inception.** An Offer does not constitute a Contract nor does it confer any rights on the Offeror to the award of a Contract. A Contract is not created until the Offer is accepted in writing by an authorized District Representative of the Offer and Acceptance Form. A letter or other notice of award or of the intent to award shall not constitute acceptance of the Offer.

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C. **Effective Date.** The effective date of this Contract shall be the date that the authorized District Representative signs the Offer and Acceptance Form or other official contract form, unless another date is specifically stated in the Contract.

D. **Final acceptance.** The final acceptance will be contingent upon the approval of the Governing Board.

## 7. Protests

A protest shall comply with and be resolved according to Arizona Department of Education School District Procurement Code Rule A.A.C. R7-2-1141 through R7-2-1153. Protests shall be in writing and be filed with the District Representative, Laura Noel, Ed.D. Superintendent. A protest of a Solicitation shall be received by the District Representative before the due date. A protest of a proposed award or of an award shall be filed with the Procurement Officer within ten (10) days after the protester knows or should have known the basis of the protest. A protest shall include:

1. The name, addresses, and telephone number of the protester;
2. The signature of the protester or its representative;
3. Identification of the purchasing agency and the Solicitation or Contract number;
4. A detailed statement of the legal and factual grounds of the protest including copies of relevant documents; and
5. The form of relief requested.



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## UNIFORM GENERAL TERMS AND CONDITIONS

### 1. Contract Interpretation

A. Arizona Law. The law of Arizona applies to this Contract including, where applicable, the Uniform Commercial Code as adopted by the State of Arizona and the Arizona School District Procurement Code, Arizona Revised Statutes (A.R.S.) 15-213, and its implementing rules, Arizona Administrative Code (A.A.C.) Title 7, Chapter 2, Articles 10 and 11.

B. Implied Contract Terms. Each Provision of law and any terms required by law to be in this Contract are a part of this Contract as if fully stated in it.

C. Relationship of Parties. The Contractor under this Contract is an independent Contractor. Neither party to this Contract shall be deemed to be the employee agent of the other party to the Contract.

D. Severability. The provisions of this Contract are severable. Any term or condition deemed illegal or invalid shall not affect any other term or condition of the Contract.

E. No Parol Evidence. This Contract is intended by the parties as a final and complete expression of their agreement. No course of prior dealings between the parties and no usage of the trade shall supplement or explain any terms used in this document.

F. No Waiver. Either party's failure to insist on strict performance of any term or condition of the Contract shall not be deemed waiver of that term or condition even if the party accepting or acquiescing in the nonconforming performance knows of the nature of the performance and fails to object to it.

### 2. Contract Administration and Operation

A. Records. Under A.R.S. § 35-214 and § 35-215, the Contractor shall retain and shall Contractually require each Subcontractor to retain all data and other records ("records") relating to the acquisition and performance of the Contract for a period of five years. After the completion of the Contract. All records shall be subject to inspection and audit at reasonable times. Upon request, the Contractor shall produce a legible copy of any or all such records.

B. Non-Discrimination. The Contractor shall comply with State Executive Order No. 99-4, 2000-4 and all other applicable Federal and State laws, rules and regulations, including the Americans with Disabilities Act.

C. Audit. At any time during the term of this Contract and five (5) years. Thereafter, the Contractor's or any Subcontractor's books and records shall be subject to audit by the School District and, where applicable, the Federal Government, the extent that the books and records relate to the performance of the Contract or Subcontract.

D. Inspection and Testing. The Contractor agrees to permit access to its facilities, Subcontractor facilities and the Contractor's processes for producing the materials, at reasonable time for inspection of the materials and services covered under this Contract. The School District shall also have the right to test at its own cost the materials to be supplied under this Contract. Neither inspection at the Contractor's facilities nor testing shall constitute final acceptance of the materials. If the School District determines non-compliance of the materials,

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the Contractor shall be responsible for the payment of all costs incurred by the School District for testing and inspection.

E. Notices. Notices to the Contractor required by this Contract shall be made by the School District to the person indicated on the Offer and Acceptance form submitted by the Contractor unless otherwise stated in the Contract. Notices to the School District required by the Contract shall be made by the Contractor to the Solicitation Contact Person indicated on the Solicitation cover sheet, unless otherwise stated in the Contract. An authorized Procurement Officer and an authorized Contractor representative may change their respective person to whom notices shall be given by written notice and an Amendment to the Contract shall not be necessary.

F. Advertising and Promotion of Contract. The Contractor shall not advertise or publish information for commercial benefit concerning this Contract without the prior written approval of the Procurement Officer.

G. Property of the School District. Any materials, including reports, computer programs and other deliverables, created under this Contract are the sole property of the School District. The Contractor is not entitled to a patent or copyright on those materials and may not transfer the patent or copyright to anyone else. The Contractor shall not use or release these materials without the prior written consent of the School District.

### 3. Costs and Payments

A. Payments. Payments shall comply with the requirements of A.R.S. Titles 35 and 41, Net 30 days. Upon receipt and acceptance of goods or services, the Contractor shall submit a complete and accurate invoice for payment from the School District within thirty (30) days. The Purchase Order number must be referenced on the invoice.

B. Applicable Taxes.

1. Payment of Taxes by the School District. The School District will pay only the rate and/or amount of taxes identified in the Offer and in any resulting Contract/Purchase Order.

2. State and Local Transaction Privilege Taxes. The School District is subject to all applicable state and local transaction privilege taxes. Transaction privilege taxes apply to the sale and are the responsibility of the seller to remit. Failure to collect taxes from the buyer does not relieve the seller from its obligation to remit taxes.

3. Tax Indemnification. Contractor and all Subcontractors shall pay all federal, state, and local taxes applicable to its operation and any persons employed by the Contractor. Contractor shall, and require all Subcontractors to hold the School District harmless from any responsibility for taxes, damages and interest, if applicable, contributions required under federal, and/or state and local laws and regulations and any other costs including transaction privilege taxes, unemployment compensation insurance, Social Security and Worker's Compensation.

4. IRS W-9. In order to receive payment under any resulting Contract, Contractor shall have a current I.R.S. W-9 Form on file with the School District.

5. Availability of Funds for the Next Fiscal Year. Funds may not presently be available for performance under this Contract beyond the current fiscal year. No legal liability on the part of the School District for any

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|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
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payment may arise under this Contract beyond the current fiscal year until funds are made available for performance of the Contract. The School District will make reasonable efforts to secure such funds.

#### 4. Contract Changes

A. Amendments. This Contract is issued under the authority of the Procurement Officer who signed this Contract. The Contract may be modified only through a Contract Amendment within the scope of the Contract signed by the Procurement Officer. Changes to the Contract, including the addition of work or materials, the revision of payment terms, or the substitution of work or materials, directed by an unauthorized employee or made unilaterally by the Contractor are violations of the Contract and of applicable law. Such changes, including unauthorized written Contract Amendments, shall be void and without effect, and the Contractor shall not be entitled to any claim and this Contract based on those changes.

B. Subcontracts. The Contractor shall not enter into any Subcontract under this Contract without the advance written approval of the Procurement Officer. The Subcontract shall incorporate by reference the terms and conditions of this Contract.

C. Assignment and Delegation. The Contractor shall not assign any right nor delegate any duty under this Contract without the prior written approval of the Authorized District Representative.

#### 5. Risk and Liability

A. Risk of Loss. The Contractor shall bear all loss of conforming material covered under this Contract until received by authorized personnel at the location designated in the purchase order or Contract. Mere receipt does not constitute final acceptance. The risk of loss for nonconforming materials shall remain with the Contractor regardless of receipt.

B. General Indemnification. Any contract entered by the District shall include the following indemnification language.

"Contractor shall indemnify, defend, save and hold harmless Santa Cruz Valley Unified School District #35 and its officers, officials, agents, and employees (hereinafter referred to as "Indemnitee") from and against any and all claims, actions, liabilities, damages, losses, or expenses (including court costs, attorneys' fees, and costs of claim processing, investigation and litigation) (hereinafter referred to as "Claims") for bodily injury or personal injury (including death), or loss or damage to tangible or intangible property caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of Contractor or any of its Districts, officers, directors, agents, employees or subcontractors. This indemnity includes any claim or amount arising out of or recovered under the Workers' Compensation Law or arising out of the failure of such Contractor to conform to any federal, state or local law, statute, ordinance, rule, regulation or court decree. It is the specific intention of the parties that the Indemnitee shall, in all instances, except for Claims arising solely from the negligent or willful acts or omissions of the Indemnitee, be indemnified by Contractor from and against any and all claims. It is agreed that Contractor will be responsible for primary loss investigation, defense and judgment costs where this indemnification is applicable. In consideration of the award of this contract, the Contractor agrees to waive all rights of subrogation against the District, its officers, officials, agents and employees for losses arising from the work performed by the Contractor for the District."

C. Indemnification - Patent and Copyright. To the extent permitted by law, the Contractor shall defend, indemnify and hold harmless the School District against any liability, including costs and expenses, for



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infringement of any patent, trademark, or copyright arising out of Contract performance or use by the School District of materials furnished or work performed under this Contract. The School District shall reasonably notify the Contractor of any claim for which it may be liable under this paragraph.

**D. Force Majeure.**

1. Except for payment of sums due, neither party shall be liable to the other nor deemed in default under this Contract if and to the extent that such party's performance of this Contract is prevented by reason of force majeure. The term "*force majeure*" means an occurrence that is beyond the control of the party affected and occurs without its fault or negligence. Without limiting the foregoing, force majeure includes acts of God; acts of the public enemy; war; riots; strikes; mobilization; labor disputes; civil disorders; fire; flood; lockouts; injections-intervention acts; or failures or refusals to act by government authority; and other similar occurrences beyond the control of the party declaring force majeure which such party is unable to prevent by exercising reasonable diligence.

2. Force Majeure shall not include the following occurrences:

- a) Late delivery of equipment or materials caused by congestion at a manufacturer's plant or elsewhere, or an oversold condition of the market; or
- b) Late performance by a Subcontractor unless the delay arises out of a force majeure occurrence in accordance with this force majeure term and condition; or
- c) Inability of either the Contractor or any Subcontractor to acquire or maintain any required insurance, bonds, licenses, or permits.

3. If either party is delayed at any time in the progress of the work by force majeure, the delayed party shall notify the other party in writing of such delay, as soon as is practicable and no later than the following working day, of the commencement thereof and shall specify the causes of such delay in such notice. Such notice shall be delivered or mailed certified-return receipt requested, and shall make a specific reference to this article, thereby invoking its provisions. The delayed party shall cause such delay to cease as soon as practicable and shall notify the other party in writing when it has done so. The time of completion shall be extended by Contract Amendment for a period of time equal to the time that results or effects of such delay prevent the delayed party from performing in accordance with this Contract.

4. Any delay or failure in performance by either party hereto shall not constitute default hereunder or give rise to any claim for damages or loss of anticipated profits if, and to the extent that such delay or failure is caused by force majeure.

5. Third Party Antitrust Violations. The Contractor assigns to the School District any claim for overcharges resulting from antitrust violation the extent that those violations concern materials of services supplied by third parties to the Contractor toward fulfillment of this Contract.

**6. Warranties**

- A. **Liens.** The Contractor warrants that the materials supplied under this Contract are free of liens.
- B. **Quality.** Unless otherwise modified elsewhere in these terms and conditions, the Contractor warrants that for two years after acceptance by the School District of the materials or services, they shall be:

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1. of a quality to pass without objection in the trade under the Contract description;
2. fit for the intended purposes for which the materials or services are used;
3. within the variations permitted by the Contract and are of even kind, quality, and quality within each unit and among all units;
4. adequately contained, packaged and marked as the Contract may require; and
5. conform to the written promises or affirmations of fact made by the Contractor.

**C. Fitness.** The Contractor warrants that any material or service supplied to the School District shall fully conform to all requirements of the Solicitation and all representations of the Contractor, and shall be fit for all purposes and uses required by the Contract.

**D. Inspection/Testing.** The warranties set forth in subparagraphs A through C of this paragraph are not affected by inspection testing of or payment for the materials or services by the School District.

**E. Exclusions.** Except as otherwise set forth in this Contract, there are no express or implied warranties or merchant ability fitness.

**F. Compliance with Applicable Laws.** The materials and services supplied under this Contract shall comply with all applicable federal, state and local laws, and the Contract shall maintain all applicable licenses and permits.

**G. Survival of Rights and Obligations after Contract Expiration or Termination.**

1. Contractor’s Representations and Warranties. All representations and warranties made by the Contractor under this Contract shall survive the expiration of termination hereof. In addition, the parties hereto acknowledge that pursuant to A.R.S. § 12-510, except as provided in A.R.S. § 12-529, the School District is not subject to or barred by any limitations of actions prescribed in A.R.S. Title 12, Chapter 5.

2. Purchase Orders. The Contractor shall, in accordance with all terms and conditions of the Contract, fully perform and shall be obligated to comply with all purchase orders received by the Contractor prior to the expiration or termination hereof, unless otherwise directed in writing by the Procurement Offices, including, without limitation, all purchase orders received prior to but not fully performed and satisfied at the expiration or termination of this Contract.

**7. School District’s Contractual Remedies**

**A. Right to Assurance.** If the School District in good faith has reason to believe that the Contractor does not intend to, or is unable to perform or continue performing the Contract, the Procurement Officer may demand in writing that the Contractor give a written assurance of intent or ability to perform. Failure by the Contractor to provide written assurance within the number of days specified in the demand may, at the School District’s option, be the basis for terminating the Contract under the Uniform General Terms and Conditions.

**B. Stop Work Order.**

1. The School District may, at any time, by written order to the Contractor, require the Contractor to stop all or any part, of the work called for by this Contract for a period of up to ninety (90) days after the

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order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage.

2. If a stop work order issued under this clause is canceled or the period of the order or any extension expires, the Contractor shall resume work. The Procurement Officer shall make an equitable adjustment in the delivery schedule or Contract price, or both, and the Contract shall be amended in writing accordingly.

**C. Non-exclusive Remedies.** The rights and the remedies of the School District under this Contract are not exclusive.

**D. Nonconforming Tender.** Materials supplied under this Contract shall fully comply with the Contract. The delivery of materials or a portion of the materials in an installment that do not fully comply constitutes a breach of Contract. On delivery of nonconforming materials, the School District may terminate the Contract for default under applicable termination clauses in the Contract, exercise any of its remedies under the Uniform Commercial Code, or pursue any other right or remedy available to it.

**E. Right to Offset.** The School District shall be entitled to offset against any sums due the Contractor, any expenses or costs incurred by the School District or damages assessed by the School District concerning the Contractor's nonconforming performance or failure to perform the Contract, including expenses, costs and damages described in the Uniform General Terms and Conditions.

**8. Contract Termination**

**A. Cancellation for Conflict of Interest.** Per A.R.S. 38-511 the School District may cancel this Contract within three (3) years after Contract execution without penalty or further obligation if any person significantly involved in initiating, negotiating, securing, drafting, or creating the Contract on behalf of the School District is, or becomes at any time while the Contract or an extension the Contract is in effect, an employee of or a consultant to any other party to this Contract with respect to the subject matter of the Contract. The cancellation shall be effective when the Contractor receives written notice of the cancellation unless the notice specifies a later time.

**B. Gratuities.** The School District may, by written notice, terminate this Contract, in whole or in part, if the School District determines that employment or gratuity was offered or made by the Contractor or a representative of the Contractor to any officer or employee of the School District for the purpose of influencing the outcome of the procurement or securing the Contract, an Amendment to the Contract, or favorable treatment concerning the Contract, including the making of any determination or decision about Contract performance. The School District, in addition to any other rights or remedies, shall be entitled to recover exemplary damages in the amount of three (3) times the value of the gratuity offered by the Contractor.

**C. Suspension or Debarment.** The School District may, by written notice to the Contractor, immediately terminate this Contract if the school District determines that the Contractor has been disbarred, suspended or otherwise lawfully prohibited from participating in any public procurement activity, including but not limited to, being disapproved as a Subcontractor of any public procurement unit or other governmental body.

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**D. Termination for Convenience.** The School District reserves the right to terminate the Contract, in whole or in part at any time, when in the best interests of the School District without penalty recourse. Upon receipt of the written notice, the Contractor shall immediately stop all work, as directed in the notice, notify all Subcontractors of the effective date of the termination and minimize all further costs to the School District. In the event of termination under this paragraph, all documents, data and reports prepared by the Contractor under the Contract shall become the property of and be delivered to the School District. The Contractor shall be entitled to receive just and equitable compensation for work in progress, work completed, and materials accepted before the effective date of the termination. The cost principles and procedures provided in A.A.C. R7-2-1125 shall apply.

**E. Termination for Default.**

1. In addition to the rights reserved in the Uniform Terms and Conditions, the School District reserves the right to terminate the Contract in whole or in part due to the failure of the Contractor to comply with any term or condition of the Contract, to acquire and maintain all required insurance policies, bonds, licenses and permits, or to make satisfactory progress in performing the Contract. The Procurement Officer shall provide written notice of the termination and the reasons for it to the Contractor.

2. Upon termination under this paragraph, all documents, data and reports prepared by the Contractor under the Contract shall become the property of and be delivered to the School District.

3. The School District may, upon termination of this Contract, procure, on terms and in the manner that it deems appropriate, materials and services to replace those under this Contract. The Contractor shall be liable to the School District for any excess costs incurred by the School District re-procuring the materials or services.

**F. Continuation of Performance through Termination.** The Contractor shall continue to perform, in accordance with the requirements of the Contract, up to the date of termination, as directed in the termination notice.

**9. Contract Claims**

All Contract claims and controversies under this Contract shall be resolved according to A.R.S. Title 15-213 and rules adopted thereunder.

**10. Offshore Performance**

Due to security and identity protection concerns, direct services under any subsequent contract shall be performed within the borders of the United States. Any services that are described in the specifications or scope of work that directly serve the school district(s) or charter school(s) or its clients and may involve access to secure or sensitive data or personal client data or development or modification of software for the State shall be performed within the borders of the United States. Unless specifically stated otherwise in the specifications, this definition does not apply to indirect or “overhead” services, redundant back-up services or services that are incidental to the performance of the contract. This provision applies to work performed by subcontractors at all tiers.

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### 11. Contractor’s Employment Eligibility

By entering the contract, contractor warrants compliance with A.R.S. 41-4401, A.R.S. 23-214, the Federal 17 Immigration and Nationality Act (FINA), and all other federal immigration laws and regulations.

The District may request verification of compliance from any contractor or subcontractor performing work under this contract. The District reserves the right to confirm compliance in accordance with applicable laws.

Should the District suspect or find that the contractor or any of its subcontractors are not in compliance, the District may pursue any and all remedies allowed by law, including, but not limited to: suspension of work, termination of the contract for default, and suspension and/or debarment of the contractor. All costs necessary to verify compliance are the responsibility of the contractor.

### 12. Terrorism Country Divestments

Per A.R.S. 35-392, the District is prohibited from purchasing from a company that is in violation of the Export Administration Act.

### 13. Scrutinized Business Operations

Per A.R.S. 35-391, the District is prohibited from purchasing from a company with scrutinized business operations in Sudan. Per A.R.S. 35-393, the District is prohibited from purchasing from a company with scrutinized business operations in Iran.

In accordance with A.R.S. §§ 35-393, the Offeror is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

### 14. Fingerprint Clearance Cards

In accordance with A.R.S 15-512(H), a contractor, subcontractor or vendor or any employee of a contractor, subcontractor or vendor who is contracted to provide services on a regular basis at an individual school may be required to obtain a valid fingerprint clearance card pursuant to Title 41, Chapter 12, Article 3.1. An exception to this requirement may be made as authorized in Governing Board policy. Contractor, subcontractors, vendors and their employees shall not provide services on school district properties until authorized by the District. Additionally, contractor shall comply with Governing Board Policies of the Santa Cruz Valley Unified School District.

### 15. Registered Sex Offender Notification Restriction

Contractor represents and warrants that no employee of the Contractor, or of its subcontractor, who has been adjudicated to be a registered sex offender will perform work on District’s premises at any time without written approval of the District Representative.

Any breach of Contractor’s or any subcontractor’s warranty shall be deemed to be a material breach of this Contract, subjecting Contractor to penalties up to and including suspension or termination of this Contract. If the breach is by a subcontractor, and the subcontract is suspended or terminated as a result, Contractor shall



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be required to take such steps as may be necessary to either self-perform the services that would have been provided under the subcontract or retain a replacement subcontractor as soon as possible so as not to delay project completion.

Contractor shall advise each subcontractor of the District's rights and the subcontractor's obligations hereunder. Any additional costs attributable directly or indirectly to remedial action under this Article shall be the responsibility of Contractor.

**16. Clarifications/Discussions**

Clarification means communication with Offeror for the sole purpose of eliminating minor irregularities, informalities, or apparent clerical mistakes in the Bid. It is achieved by explanation or substantiation, either in response to an inquiry from the District or as initiated by Offeror. Clarification does not give Offeror an opportunity to revise or modify its Offer, except to the extent that correction of apparent clerical mistakes results in a revision.

**17. Confidential Information**

Confidential information request: If Offeror believes that its Bid contains trade secrets or proprietary information that should be withheld from public inspection, a statement advising the School District of this fact shall accompany the Bid, and the information shall be so identified wherever it appears. The School District shall review the statement and shall determine in writing whether the information shall be withheld. If the School District determines to disclose the information, the School District shall inform Offeror in writing of such determination.

**18. Prohibition of Reprisals**

The Santa Cruz Valley Unified School District is committed to complying with Federal requirements related to whistleblower protections. To that end, an employee may not be discharged, demoted, or otherwise discriminated against as a reprisal for disclosing, including a disclosure made in the ordinary course of an employee's duties, to the Board, an inspector general, the Comptroller General, a member of Congress, a State or Federal regulatory or law enforcement agency, a person with supervisory authority over the employee (or such person working for the employer who has the authority to investigate, discover, or terminate misconduct), a court or grand jury, the head of a Federal agency, or their representatives, information that the employee reasonably believes is evidence of;

1. gross mismanagement of a contract or grant;
2. a gross waste of public funds;
3. a substantial and specific danger to public health or safety related to the implementation or use of public funds;
4. an abuse of authority related to the implementation or use of public funds; or a violation of law, rule, or regulation related to a school district contract (including the competition for or negotiation of a contract) or grant, awarded or issued relating to public funds.

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## SPECIAL INSTRUCTIONS TO OFFERORS

### 1. Pre-Bid Conference

There will not be a Pre-Bid Conference.

### 2. Inquiries

All questions regarding this IFB must be submitted by email no later than 2:00 p.m. Arizona Time, on December 14, 2020 to Lourdes Ocampo at [locampo@scv35.org](mailto:locampo@scv35.org). The Offeror shall not contact any other individuals to obtain information concerning the solicitation or its contents.

### 3. Interpretations and Amendments

Should a Offeror find discrepancies in, or omissions from, the Solicitation Documents, or is in doubt as to their meaning, Offeror must at once notify the District, who will send a written instruction to each person receiving a set of documents. The Offeror submitting a request for interpretations will be responsible for its prompt delivery. All requests for interpretations shall be made in writing. The District will not be responsible for any explanations or interpretations except those duly issued in the form of written Amendment. Receipt of any Amendment so issued during the time of bidding shall be included in the bid and shall be acknowledged in the Bid and be made a part of the Contract Documents.

### 4. Purpose of Specifications

Specifications are designed to enable Offeror to satisfy a requirement for a product, material, process, or service. A specification may be expressed as a standard, part of a standard, or independent of a standard. No specification is intended to limit competition by eliminating items capable of satisfactorily meeting the requirements of the procurement. If Offeror believes a specification is unnecessarily restrictive, Offeror must indicate such in its bid.

### 5. Use of Brand Names

Brand names, trade names, model numbers, and/or catalog numbers are used to indicate the character, quality, and/or performance characteristics of the materials desired. Use of the name of a manufacturer, brand, make or catalog number does not restrict Offeror from offering suitable alternates. However, Santa Cruz Valley Unified School District reserves the right to decide whether alternatives to the identified manufacturer and brand are equal to the materials, equipment described in the solicitation. Santa Cruz Valley Unified School District will be the sole judge on the question of equal quality, and the District's decision shall be final.

### 6. Examination of Contract Documents and Project Site

**A.** Before submitting a Bid, Offerors shall carefully examine all of the Contract Documents and visit the Project site and fully inform themselves as to all existing conditions and limitations. Offerors shall include in their Bid a sum to cover the cost of all items included in the Contract. The Offeror, if awarded the Contract, shall not be allowed any extra compensation by reason of any matter or thing, concerning which such Offeror might have fully informed themselves prior to the bidding.

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**B.** All quantities for bid submittal purposes are to be field verified by Offeror prior to submitting bid submittal. The Offeror is cautioned that it is the Offerors sole responsibility to submit information related to the evaluation categories and that the Santa Cruz Valley Unified School District is under no obligation to solicit such information if it is not included with the Offerors bid. Failure by the Offeror to submit such information may cause an adverse impact on the evaluation of the Offerors bid.

## 7. Request for Approved Equal

Identification of material or equipment by manufacturer's name or trade name is not meant to give preference to any manufacturer, but merely to establish a standard.

**A.** Offerors shall submit written requests to obtain approval to use unspecified products no later than **2:00 p.m. on December 14, 2020**. Requests received after this time will not be considered. Requests shall clearly describe the product for which approval is asked, including data necessary to demonstrate acceptability. The District shall consider and either approve or reject all proposals submitted and shall comply with the following requirements:

1. If the District has approved an alternative product offering, the Offeror will be contacted with the approval and the Offeror's Bidding Documents shall be modified to include the alternative products.
2. If the District rejects an alternative product proposal, notice of the rejection shall be given to the Offeror prior to the deadline for receiving bids. Notice shall include an explanation for rejection of the product.

- B.** The Offeror's request for approval of any substitution shall include all of the following:
1. Complete data substantiating compliance of the proposed substitution with the Contract Documents.
  2. Product identification, including manufacturer's name, address and phone number.
  3. Manufacturer's literature showing complete product description, performance and test data and all reference standards.
  4. Samples and colors in the case of articles or products.
  5. Name and address of similar projects on which the product was used and date of installation.
  6. For construction methods, include a detailed description for proposed methods.
  7. Itemized comparison of proposed substitutions with product or method specified.
  8. An "Intent to Warranty" on letterhead from the manufacturer or reputable distributor listing Santa Cruz Valley School District as the District with the School Site as the address.

**C.** Substitution requests shall be made on the "Substitution Request Form" included in this bid package.

**D.** The decision of the District regarding the approval of items for which substitution is requested will be final. In the event of an approved substitution, if such substitution is later determined by the District to be unacceptable for any reason, including the necessity to perform extended redesign or rework of the project in order to accommodate the substitution, or if it becomes apparent to the District that the substituted item will not perform or function as well as the specified item, the Offeror will be required to furnish the original specified item or request approval to use another substitution. The Offeror will pay all costs, expenses or damages associated with or related to the unacceptability of a substitution and the resultant utilization of any item. The Offeror further understands and agrees that a time extension will not be granted due to delays associated with or related to the unacceptability of a substitution.



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E. If a substitution is approved; no subsequent change in brand or make will be permitted unless satisfactory written evidence is presented to the District that the manufacturer cannot make scheduled delivery of the approved substitute item.

F. Substitutions will not be considered for approval by the District prior to or after the award of the Contract if:


1. The proposed substitution is indicated or implied on shop drawings or product data submittals and has not been formally submitted for approval by the Offeror in accordance with the above stated requirements.
2. Acceptance of the proposed substitution will require substantial design revisions to the Contract Documents or is otherwise not acceptable to the District.

**8. Approval of Equal Items of Equipment and/or Materials Before Submission of Bids**

Time is of the essence for this project. If an Offeror wishes to use items of equipment and/or materials other than those identified by trade or manufacturer's name, model or catalog number in the Specifications, Offeror shall submit the request for approval to the District no later than 2:00 p.m. on December 14, 2020. Approvals will be granted only upon individual requests of prime bidding contractors. No approvals for substitutions will be granted directly to suppliers, distributors or subcontractors. Each request shall include all basic data and characteristics of the proposed item, so that a direct comparison can be readily made. It is the sole responsibility of the Offeror to submit complete descriptive and technical information so that the District can make a proper appraisal. All requests shall be in writing, addressed to Lourdes Ocampo at [locampo@scv35.org](mailto:locampo@scv35.org). If the District has approved an alternative product offering, the Offeror will be contacted with the approval and the Offeror's Bidding Documents shall be modified to include the alternative products.

**9. Submission of Bid Package**

The bid package, also known as the Offer, should be prepared simply and economically, providing a straightforward, concise description of the capabilities to satisfy the requirements of the IFB. Emphasis should be on the completeness and clarity of content and should include the forms and information listed within this Section. Using the Bid Cover Sheet (Checklist) provided within the IFB is strongly recommended to ensure all necessary information is included for the submission of a bid package.

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1. **Questionnaire:** A completed Questionnaire is required and provides pertinent details about the Offeror. Details sought in the Questionnaire include:

I. Company Profile

- a. Primary Office location and Contact details (address, phone numbers, email address, etc.)
- b. AZ ROC license(s)
- c. Litigation and Complaints
- d. Fingerprinting and Background Clearances

2. **References:** A minimum of three (3) references should be included for projects of similar scope in Arizona including the following details: District, Contact Person, Cell Phone Number, Email Address and Date of Project.

3. **Amendment Acknowledgement:** The form shall be used to acknowledge any/all Amendments that may be issued. The form does not have to be submitted within the bid package if no Amendment(s) is issued. Signatures provided on this document serve as confirmation that the Offeror has reviewed and acknowledges any change, clarification or modification made to the original bid and/or related documents.

4. **Bonding:** All bonds shall be provided to Santa Cruz Valley Unified School District and must be from Surety Companies licensed in the State of Arizona, with a General Power of Attorney and rated "A+" in Best's Guide.

1. **Bid Bond:** An irrevocable bid security payable to the Santa Cruz Valley Unified School District in the amount of 10.00% of the total bid project cost is required. This security should be in the form of a bid bond, certified check, cashier's check, or cash and must be in the possession of the District by the due time and date cited for this solicitation.

2. **Performance Bond:** The contractor shall be required to furnish an irrevocable security in the amount of 100.00% of the total contract price payable to the Santa Cruz Valley Unified School District, binding the contractor to provide faithful performance of the contract. This security must be in the possession of the District within 48 hours after receipt of purchase order or other notice of award. The cost of this bond is itemized on the bid submittal form.

Performance security shall be in the form of a performance bond, certified check or cashier's check. This security must be in the possession of the District within 48 hours after receipt of purchase order or other notice of award. If the contractor fails to execute the security document, as required, the contractor may be found in default and the contract terminated by the District. In case of default, the District reserves all rights to recover as provided by law.

All performance bonds must be executed on forms substantially equivalent to the form included with this solicitation. This security must be in the possession of the District within 48 hours after receipt of purchase order or other notice of award.

3. **Payment Bond:** The Contractor shall be required to furnish non-revocable security for the protection of all persons supplying labor and material to the contractor or any subcontractor for the performance of any work related to the contract. Payment security shall be in the amount of

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100% of the total contract price and be payable to the Santa Cruz Valley Unified School District. The cost of this bond is included in your base bid.

Payment security shall be in the form of a payment bond, certified check or cashier's check. All payment bonds must be executed on forms substantially equivalent to the payment bond forms on file at the District and incorporated by this reference. This security must be in the possession of the District within 48 hours after receipt of purchase order or other notice of award.

**D. Subcontractors:** A completed Subcontractor form shall be included listing only one name for each branch of the work. This form should be included even if your firm is self-performing 100% of the work and not utilizing any Subcontractor(s). The Subcontractor list should be submitted in separate envelope in the bid package. It is the contractor's responsibility to know if their license classification is valid to perform the Scope of Work, as presented. Contractors listed on the Subcontractor form are only valid if the firm possesses a license for the specified type of work. The Subcontractor list may not be changed from as submitted without the District's written approval.

**E. Confidential Information:** If a person believes that any portion of a proposal, bid, offer, specification, protest or correspondence contains information that should be withheld, then the Procurement Officer shall be so advised in writing (price is not confidential and will not be withheld). Such material shall be identified as confidential wherever it appears. The District, pursuant to R7-2-1016, shall review all requests for confidentiality and provide a written determination. If the confidential request is denied, such information shall be disclosed as public information, unless the person utilizes the 'Protest' provision as noted in R7-2-1142.

**F. Bid Pricing Submittal:** Offerors must submit their pricing as outlined on the Bid Pricing Submittal form. Additions and subtractions will be determined upon project completion. These line items are to be added to the Base Bid and other line items listed to provide the overall Total Bid Project Cost. Other items listed on the Bid Pricing Submittal include:

1. Restatement of Work: The Restatement of Work should provide a few short sentences detailing the major tasks involved in the project and include the product(s) being used. A statement such as "per plans and specs" does not qualify as indication of understanding of the Scope of Work and is not acceptable. This Restatement of Work should also include the major product(s) being used for the project. Failure to provide the restatement demonstrating competence and understanding of the Scope of Work and specifications for the project could result in the bid being determined non-responsive.

2. Schedule (Based on Notice to Proceed): On your letterhead, a schedule based on Notice to Proceed through Substantial Completion (May 1, 2021) should be provided and include milestones for the project.

**G. Vendor Payment Form:** A completed Vendor Payment form provides necessary information for the District to create a purchase order and subsequent payments and should be included in the bid package.

**H. Asbestos Certification - Notarized:** The completed form should be notarized and included in the bid package to attest that all materials to be used in the project are and shall be free of asbestos.

**I. Offer and Acceptance:** Offeror shall include a signed Offer and Acceptance Form. The Offer and Acceptance Form shall be signed with an original signature by an Authorized Representative of the Offeror, and shall be submitted with the submitted bid no later than the Offer due date and time. Failure to return a signed Offer and Acceptance Form may result in rejection of the Offer.

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**J. Deviations and Exceptions:** The form shall be completed if there are any deviations/exceptions to the information found within the Invitation for Bid. Any deviation or exception not included on the form provided shall be without force and effect in any resulting Contract. Failure to show specific deviations indicates full compliance with the IFB.

**K. Conflict of Interest:** A statement disclosing any relationship with a District Employee or Governing Board member must be included in the bid package.

**L. Drug-Free Workplace:** The form indicates if your firm has a policy in place or not and should be included in the bid package.

**M. Non-Collusion – Notarized:** Offeror attests that the bid is genuine, is neither a sham nor collusive, nor is made in the interest for or on behalf of any person or corporation not named within the bid. The Offeror has not in any manner sought by collusion or anti-competitive means or practices to secure for itself an advantage over any other Offeror. It also certifies that the Offeror has not directly or indirectly induced or solicited any other Offeror to put in a sham or collusive bid, or induced or solicited any other Offeror to refrain from submitting an offer. This form shall be notarized.

**N. I.R.S. W-9 Form, Request for Taxpayer Information:** Offeror should submit a current I.R.S. W-9 Form with the bid package. The W-9 form is required in order to receive payment under the Contract.

**O. Vendor Application Form:** Offeror should submit a current Vendor Application Form with the bid package. The vendor application form is required in order ensure correct order and payment information under this Contract.

**10. Offer Submission, Due Date and Time**

It is the Offeror’s responsibility to ensure that the bid package is delivered on the due date by the time required. Delivery times vary for all packages delivered to the Santa Cruz Valley Unified School District. If packages are received after the due date and time specified in the solicitation due to carriers like UPS or Fed Ex delivering late, Santa Cruz Valley Unified School District will not be held responsible and the late bid package shall not be considered.

**11. Evaluation**

**Opening:** Sealed bids received by the correct time and date shall be opened and each Offeror’s pricing shall be publicly read and entered into a spreadsheet. Due to COVID-19 precautions, the Bid Opening will be conducted via **Zoom Conference at this link:** <https://us02web.zoom.us/j/82387938666>.

- A. All other information contained in the Offer shall remain confidential until award is made.
- B. **Evaluation Criteria:** Bids may not be considered responsive and/or acceptable if they do not contain information sufficient to perform the necessary vetting of information requested in the IFB. Necessary components include an indication of the Offeror's intent to be bound, bid pricing submittal, acknowledgement of amendment(s), appropriate bonds, warranty information, company profile and any pertinent reference data as required. As stated in the Uniform Instructions, Exceptions to the Terms and Conditions may impact a Offeror's susceptibility for award. Once the bid package is determined responsive

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and the Offeror is determined to be responsible, price is the most important factor. A tally sheet will be developed with the pricing and costs requested in the IFB.

- C. **Clarification of Bid Submittals:** Clarification means communication with Offeror for the sole purpose of eliminating minor irregularities, informalities, or apparent clerical mistakes in the Bid. It is achieved by explanation or substantiation, either in response to an inquiry from the District or as initiated by Offeror. Clarification does not give Offeror an opportunity to revise or modify its Offer.
- D. **Responsibility, Responsiveness and Acceptability:** In accordance with R7-2-1 076, R7-2-1161, R7-2-1168, R7-2- 1171, and R7-2-1003 (B), R7-2-1031 or R7-2-1046, the District shall consider the following in determining Offeror’s responsibility as the responsiveness of bids submitted in response to the solicitation. Determinations of non-responsibility and/or non-responsiveness shall be made in writing and shall set forth the bases for the determination. Bids determined to be non-responsive and/or non-responsible shall prevent the bid from evaluation and the Offeror shall be notified accordingly.

**1. Mandatory Responsiveness Requirements:**

- a. A Signed Offer Form is included;
- b. A Bid Bond is included;
- c. Offeror possesses a valid license to perform the Scope of Work identified;
- d. Offeror does not have any unresolved issues at the Arizona Registrar of Contractors;
- e. Offeror does not have any unresolved issues with previous District; and
- f. References demonstrating experience with similar projects of size and scope in Arizona.

**2. Debarment, Suspension or Contract Termination**

Offerors may not be considered responsible if they have been debarred from the practice of their profession that would otherwise be necessary in the provision of goods and services under any resulting contract. Offerors may not be considered responsible if they have had a contract with the District, within the last three-years, that was terminated for cause, due to breach or similar failure to comply with the terms of any such contract. Offerors may also not be considered responsible if there is factual evidence of their frequent and reoccurring failure to satisfy the terms of their agreements and contractual relationships, both with the District or other government entities. Factual evidence shall consist of any documented vendor performance reports, customer complaints and/or negative references.

**3. Bid Submittal Package**

Bids may not be considered responsive if they are not submitted in the requested format; if they include significant exceptions to any requirements, terms or conditions that render the bid unacceptable; or do not contain sufficient contents with which to evaluate the bid, e.g., bonds, product information, key personnel, references, pricing and/or other requested information. Failure to submit all requested information in rejection of the bid.

**4. Additional Responsibility Factors**

- a. The proposed contractor's stability, material, personnel and other resources, including



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subcontractors;

- b.** The proposed contractor's record of performance and integrity;
- c.** Whether the proposed contractor is qualified legally to contract with the public entity;
- d.** Whether the proposed contractor supplied all necessary information concerning its responsibility;
- e.** Complaints on file with the Registrar of Contractors;
- f.** Prior litigation history; and References may result.

## 12. Award

**A. Contract Award:** An award will be made to the lowest responsive and responsible Offeror that conforms in all material respects to the requirements outlined in the Invitation for Bid. The District reserves the right to award the base bid and any combination of alternates, if any, that is deemed most advantageous to the District in determining the lowest responsive and responsive Offeror. If an Offeror is awarded a contract and is unable to meet its contractual obligations, Santa Cruz Valley Unified School District may cancel the Contract and award to the next lowest ranked Offeror if the determination occurs within a reasonable time period after original Contract Award.

**B. Contract Implementation Meetings:** The Contractor may be required to participate in meetings for the successful implementation of the contract. Meetings, if any, will be at the discretion of the District. The Contractor will be notified in advance of any meeting times, frequency for future meetings, if any, and locations to ensure all appropriate district and contractor staff/representatives attend. The District reserves the right to decline conference call attendance or participation.

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**SPECIAL TERMS AND CONDITIONS**

**1. Purpose**

The purpose of this solicitation is to hire a qualified Contractor who can provide construction services for the replacement of the fire alarm systems of Coatimundi Middle School, Santa Cruz Valley Unified School District.

**2. Site Visit**

The contractor is responsible to visit the site to ascertain the full extent of work be required. No additional compensation will be allowed for failure to ascertain full extent of the work through visual inspection of existing conditions. All interested parties will have the opportunity for a visual inspection by calling Scott Peters, Santa Cruz Valley Facilities Manager, at (520) 619-1190.

**3. Contract**

This contract between the District and the Contractor shall consist of the solicitation as amended, any requests for clarifications, and the bid submitted by the Contractor. In the event of a conflict in language between the documents referenced above, the provisions and requirements set forth and/or referenced in the solicitation as amended shall govern. However, the District reserves the right to clarify any contractual requirement in writing and such written clarification shall govern in case of conflict with the applicable requirements stated in the solicitation as amended or the Contractor's bid. In all other matters not affected by the written clarification, if any, the solicitation shall govern.

**4. Contract Type**

This contract is a Fixed Firm Price.

**5. Price Clause**

Prices shall be firm for the term of the contract. Prices as stated must be complete for the services offered and shall include all associated costs.

**6. Substitute Securities**

The District will accept substitute securities in lieu of retention only in strict compliance with R7-2-11 14. If satisfactory progress is made on the Project, one-half of the funds held as substitute security will be returned upon fifty percent (50%) completion of the Project. Interest on all substitute securities will be held until final payment. All requests for substitute securities must be made on District approved forms, copies of which may be obtained from the District upon request.

**7. Investigation by Offeror.**

By submitting a bid, the Offeror certifies the Offeror has investigated all required fees, permits and regulatory requirements of authorities having jurisdiction and has properly included in the submitted bid the costs of such fees, permits and requirements not otherwise indicated as provided by the District.

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**8. Contract Award.**

The District intends to award a fixed firm price contract to a single Offeror, unless otherwise indicated, resulting from this solicitation to the responsible Offeror whose bid represents the best value after evaluation in accordance with the criteria identified in the solicitation. The District may waive informalities and minor irregularities on bids received. The Offeror’s initial bid should contain the Offeror’s best terms from a price or cost and technical standpoint. The District reserves the right to make an award on any item for any quantity less than the quantity offered, at unit costs or prices offered, unless the Offeror specifies otherwise in the bid. The District may reject any or all bids if such action is in the District’s best interest.

**9. Terms of Award**

It is the intent of the District to recommend a **single award** of this contract to the Santa Cruz Valley Unified School District Governing Board.

**10. Award Basis**

The successful Offeror(s) will be determined by the Evaluation Criteria, as presented. Awards will not be made based on price alone, as the Offeror must be responsive and responsible. The District reserves the right to award as many contracts for the services as may be in the best interest of the District. If a contractor receives a bid award, an order is placed and contractor is unable to meet the delivery requirements, meet service requirements, or material that meets the Districts needs as outlined in this Invitation for Bid, or is unable to hold bid price, or fails to provide product or service within a reasonable period of time, AND/OR fails to provide product complying with bid specifications, as determined by the District, the District reserves the right to go to the next lowest bid price of equal quality which meets bid specifications. If the bid item delivered does not meet specifications or is received in an unsatisfactory condition and is in a damaged or unusable condition, or if service is unsatisfactory, contractor must pick up item immediately and replace to the District's satisfaction at no additional charge, or issue full credit, for service a return visit must be re-scheduled within 24 hours. Rejected items must be removed from the District's premises by the Offeror upon verbal notification.

However, if an Offeror receives a contract award and is unable to meet the service requirements as outlined in this Solicitation (and subsequent contract), or is unable to hold the contract price, or fails to provide acceptable service as determined by the District, the District reserves the right to go to the next highest ranked Offeror if this determination occurs within a reasonable time period after contract award.

**11. Retention**

ADM Group, Inc. and the Santa Cruz Valley Unified School District shall perform the final inspection. R7-2-1104 requires 10% retention of the total cost of the job will be held until the final inspection is accepted by the District and School Facilities Board Representative. The Contractor shall seek written approval from an appropriate District Representative for any changes or deviations from specifications or instructions.

**12. Progress Payments**

Progress payments may be allowed. Requests for payment must be submitted through ADM Group, Inc. for approval and sign-off. Retention, often percent (10%) of the requested payment, will be withheld until the final punch list is completed.



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On or about the first day of each calendar month during the course of construction, the Contractor shall submit an itemized Application to ADM Group, Inc. supported by such data substantiating the Contractor's right to payment as the District or ADM Group, Inc. may require.

Payment shall be based on the work actually performed during the preceding calendar month. Payment may be made for equipment not yet installed but delivered and suitably stored at the project site, or at some other location agreed upon in writing by ADM Group, Inc. and the District to be transported to the site and installed at a later date, under such conditions agreed upon in writing by the District.

Material delivered and suitably stored at the project site, or at some other agreed upon location by the Contractor, subcontractors, sub-subcontractors or material suppliers shall be insured to the full value of the material and shall be suitably stored and protected. Any material that is in accordance with the Contract Documents shall be installed into the Work. Until the final acceptance of the building by the District, it shall be the Contractor's responsibility to protect all materials and equipment installed or delivered to the Project.

The Contractor warrants and guarantees that title for all Work, materials and equipment covered by the Contract Documents shall be passed to the District upon final acceptance and that such Work, materials and equipment shall be free and clear of all liens, claims, security interests or encumbrances.

### 13. Approvals for Payment

If the Contractor has submitted an Application as above (Progress Payments), then not later than the fifth day of the month, ADM Group, Inc. and Santa Cruz Valley Unified School District's Representative shall approve or otherwise act on the Application and forward the Application to the District immediately for such amount as determined to be properly due, or state in writing the reasons for withholding a part of or the entire amount of the amount applied for as provided in the Subsection, Payments Withheld.

Approval of the Application will constitute a representation by ADM Group, Inc. to the District, based on observations at the site, As-Built drawings reflect current information and the data comprising the Application, that the Work has progressed to the point indicated; that, to the best of ADM Group's knowledge, information and belief, the equality of the Work is in accordance with the Contract Documents (subject to (1) an evaluation of the Work as a functioning whole upon Substantial Completion, (2) to the results of any subsequent test required by the Contract Documents, (3) to minor deviations from the Contract Documents correctable prior to final completion, and (4) to any specific qualifications stated in his approval of the Application); and that the Contractor is entitled to payment in the amount approved. In addition, ADM Group, Inc. and District's Representative final approval for payment will constitute a further representation that all the conditions precedent to the Contractor's being entitled to final payment has been fulfilled.

### 14. Payments Withheld

ADM Group, Inc. and/or School Facilities Board may decline to approve an Application and may withhold a Certificate in whole or in part if unable to make representations to the District as provided in Approvals for Payment. ADM Group, Inc. and/or School Facilities Board may also decline to approve any Application or, because of subsequently discovered evidence or subsequent inspections, may nullify the whole or any part of any Certificate for Payment previously issued to such extent as may be necessary if within a professional opinion to protect the District from loss because of:

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- A. Defective work not remedied;
- B. Claims filed or reasonable evidence indicating probable filing of claim;
- C. Failure of the Contractor to make payments to Subcontractors or for labor, materials or equipment;
- D. Reasonable doubt that the Work can be completed for the unpaid balance of the Contract Sum;
- E. Damage to another contractor;
- F. Reasonable indication that the Work will not be completed within the Contract Time; or
- G. Unsatisfactory prosecution of the Work by the Contractor.

**15. District’s Right to Request Completion of Work**

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents, or fails to perform any provision of the Contract, the District shall after seven days' written notice to the Contractor, and without prejudice to any other remedy he may have, notify the bonding company of such default or lack of performance, and proceed to make such other necessary and reasonable arrangements to carry out the work in accordance with the Contract Documents, all at the expense of the Contractor, including the District's costs and attorneys' fees.

**16. Key Personnel**

It is essential that the contractor provide adequate experienced personnel, capable of and devoted to the successful accomplishment of work to be performed under this contract. The contractor must agree to assign specific individuals to the key positions.

A. The contractor agrees that, once assigned to work under this contract, key personnel shall not be removed or replaced without written notice to the District.

B. If key personnel are not available for work under this contract, for a continuous period exceeding 3 calendar days, or are expected to devote substantially less effort to the work than initially anticipated, the contractor shall immediately notify the District, and shall, subject to the concurrence of the District, replace such personnel with personnel with personnel of substantially equal ability and qualifications.

**17. Insurance**

Offeror agrees to maintain such insurance as will fully protect Offeror and the District from any and all claims under any workers' compensation statute or unemployment compensation laws, and from any and all other claims of any kind or nature for damage to property or personal injury, including death, made by anyone, that may arise from work or other activities carried on, under, or facilitated by this Agreement, either by Offeror, its employees, or by anyone directly or indirectly engaged or employed by Offeror. Offeror agrees to maintain such automobile liability insurance as will fully protect Offeror and the District for bodily injury and property damage claims arising out of the ownership, maintenance or use of owned, hired or non-owned vehicles used by Offeror or its employees, while providing services to the District.

Successful Offeror will be required to provide proof of and maintain comprehensive general liability insurance with a limit of not less than \$1,000,000 per occurrence and \$2,000,000 aggregate coverage with a deductible of not more than \$5,000 and naming Santa Cruz Valley Unified School District as an additional insured party. Successful Offeror will be required to submit proof of and maintain Worker's Compensation and Employer's Liability Insurance as required by law.

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## 18. Acceptance Period

In order to allow for an adequate evaluation, the District requires an offer in response to the solicitation to be valid and irrevocable for 90 days after the opening time and date.

## 19. Time frame For Completion

Work shall commence on upon award, and the notice to proceed in the form of a Purchase Order. The substantial completion date is May 1, 2021.

## 20. District's Contingency Allowance

The District is not providing any contingency allowance for this solicitation.

## 21. Liquidated Damages

If the selected Offeror fails to meet the substantial time requirements for the delivery and/or installed acceptable implementation of the project, liquidated damages of \$750 per day may be assessed for each day beyond sunset May 1, 2021. However, should an unforeseen problem arise, an extension may be granted in writing at the discretion of the District. **Substantial completion must be by sunset May 1, 2021.**

If the selected Offeror shall fail or refuse to complete the work within the time specified, then the selected Offeror shall agree as a partial consideration for the awarding of the contract, that the Santa Cruz Valley Unified School District may retain from compensation otherwise to be paid to the selected Offeror, or may recover by all remedies at law, the amount specified , not as penalty but as liquidated damages, for each and every calendar day that the selected Offeror shall be default after the time stipulated in the bid for completion of substantial work status and final completion.

## 22. Inspection

The job will have a final inspection and acceptance by the Santa Cruz Valley Unified School District. Any discrepancies noted during the inspection will be corrected prior to final payment. Field inspections will be performed by ADM Group, Inc. and a representative of the Santa Cruz Valley Unified School District upon completion of the Project.

## 23. Damages

The successful contractor shall be liable for any and all damage caused by the firm and or its employees to the Santa Cruz Valley Unified School District premises. The Offeror shall hold and save the Santa Cruz Valley Unified School District free and harmless from liability of any nature or kind arising from any use, trespass, or damage occasioned by Offeror's operations on premises or third persons.

## 24. Source Limitations

Obtain materials from the source or producer that will provide the required warranty.

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## 25. Licenses

Contractor shall maintain in current status all federal, state and local licenses, bonds and permits required for the operation of the business conducted by Contractor. Contractor shall remain fully informed of and in compliance with all ordinances and regulations pertaining to the lawful provision of services under the Contract. The District reserves the right to stop work and/or cancel the contract of any Contractor whose license(s) expire, lapse, are suspended or terminated.

## 26. Compliance with Specifications

The fact that a manufacturer, supplier or Offeror chooses not to produce or supply equipment, supplies or services to meet the specifications will not be considered sufficient cause to adjudge the specifications as restrictive. Offerors shall offer equipment, supplies, and/or services that meet the specifications as presented. The work shall meet the minimum industry standards, as applicable:

- A. American Coating Association (ACA)
- B. American Concrete Institute (ACI)
- C. American Institute of Architects (AIA)
- D. American National Standards Institute (ANSI)
- E. American Standards Association (ASA)
- F. American Society of Safety Engineers (ASSE)
- G. American Society for Testing and Materials (ASTM)
- H. Asphalt Roofing Manufacturers Association (ARMA)
- I. Construction Specifications Institute (CST)
- J. Factory Mutual (FM)
- K. International Energy Conservation Code (IECC)
- L. International Fire Code (IFC)
- M. International Mechanical Code (IMC)
- N. International Plumbing Code (IPC)
- O. National Electrical Code (NEC)
- P. National Demolition Association (NDA)
- Q. National Electrical Code (NEC)
- R. National Emission Standards for Hazardous Air Pollutants (NESHAP)
- S. National Roofing Contractors Association (NRCA)
- T. Sheet Metal Air Conditioning National Association (SMACNA)
- U. Spray Polyurethane Foam Alliance (SPF A)
- V. Tile Council of North America (TCNA)
- W. The Society for Protective Coatings (SSPC)
- X. Underwriter's Laboratories, Inc. (UL)
- Y. Western States Roofing Contractors Association (WSRCA)

## 27. Warranty and Quality Guarantee

Contractor warrants that any equipment or material supplied to the District shall fully conform to all requirements of the contract and all representations of contractor and shall be fit for all purposes and uses required by the contract.

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**28. Contractor's Warranty:** Provide 2-year warranty, or a longer period when so specified, for all content as required by the Arizona Registrar of Contractors.

**29. Americans with Disabilities Act of 1990**

The Contractor shall comply with the Americans with Disabilities Act of 1990 (Public Law 101-336) and the Arizona Disability Act of 1992 (A.R.S § 41-1492 et. seq.), which prohibits discrimination on the basis of physical or mental disabilities in delivering contract services or in the employment, or advancement in employment of qualified individuals.

Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting the procurement officer for the solicitation. Request should be made as early as possible to allow time to arrange the accommodation

**30. Fingerprinting Requirements**

The District anticipates that services under this contract may cause the contractor and proposed subcontractors to have direct, unsupervised contact with pupils. In accordance with A.R.S. 15-512(H), a contractor, subcontractor or vendor or any employee of a contractor, subcontractor or vendor who is contracted to provide services on a regular basis at an individual school shall be required to obtain a valid fingerprint clearance card pursuant to title 41, chapter 12, Article 3.1. Therefore, the Contractor and any proposed subcontractors warrant compliance with A.R.S. subsection 41-4401, A.R.S. subsection 23- 214, the Federal Immigration and Nationality ACT (FINA) and all other federal, state and local immigration laws and regulations related to the immigration status of its employees. The contractor must have all employees on-site submit to a fingerprint clearance conducted by Department of Public Safety and all employees must carry fingerprint card at all times. These warranties shall remain in effect through the term of the contract.

The District may, at its sole discretion, require evidence of compliance during the evaluation process or contract term. Should the District request evidence of compliance, the Contractor and any proposed subcontractors shall have 5 working days from receipt of the request to supply adequate information. Failure to supply the requested information or if the District suspects or finds the Contractor or any of its subcontractors are not in compliance, the District may pursue any and all remedies allowed by law, including, but not limited to: non consideration of contract award, suspension of work, termination of the contract for default, and suspension and/or debarment of the Contractor. All costs associated with verification and any remedies are the sole responsibility of the Contractor and any proposed subcontractor.

**31. Hazard Notification**

Contractor must advise Santa Cruz Valley Unified School District whenever work is expected to be hazardous to school children, District employees and/or operators. In the event that these or other hazardous materials are identified, it must be brought to the attention of ADM Group, Inc. immediately to determine remediation efforts.

**32. Regulatory Agencies**

It will be necessary that all work meet the requirements of all Federal, State and local regulatory agencies.



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### 33. Buy American Provision

Contractor will purchase, to the maximum extent practicable, domestic commodities or products in accordance with 7CFR§210.21(d) and 7CFR§220.16(d). Contractor shall purchase, to the maximum extent practicable, domestic agricultural commodities or products substantially processed in the United States. "Substantially" means the final processed product contains over 51% domestically grown agricultural commodities. This provision applies to all food purchases paid from the nonprofit school food services account. There are limited exceptions to this provision which allow for the purchase of products not meeting the "domestic" standard as described above ("non-domestic") in circumstances when use of domestic products is truly not practicable. However, before utilizing an exception, alternatives to purchasing non-domestic food products should be considered.

### 34. Small Businesses, Minority-Owned Firms, and Women's Business Enterprises

In accordance with OMB Circular A-110, the District shall make a positive effort to utilize small businesses, minority-owned firms, and women's business enterprises (SMWBE), whenever possible by 1) ensuring that SMWBE are used to the fullest extent practicable; 2) making information on forthcoming opportunities available and arranging time frames for purchases and contracts to encourage and facilitate participation by SMWBE; 3) considering in the contract process whether firms competing for larger contracts intend to subcontract with SMWBE; 4) encouraging contracting with consortiums of SMWBE when a contract is too large for one of these firms to handle individually; and 5) using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Department of Commerce's Minority Business Development Agency in the solicitation and utilization of SMWBE.

### 35. Disclosure of Lobbying Activities

Pursuant to Byrd Anti-Lobbying Amendment 31 USC 1352, Contractor must disclose lobbying activities in connection with school nutrition programs. If there are material changes after the initial filing, updated reports must be submitted on a quarterly basis. 7CFR§3018.100 (Only applies to contracts over \$100,000)

### 36. Certification Regarding Lobbying

Pursuant to 31 USC 1352, Contractor must submit a certification regarding lobbying which conforms in substance with the language provided in C.F.R. Part 200.450. By signing the Offer & Acceptance form, Contractor shall certify that no appropriated funds may be expended by the recipient of a Federal contract, grant, loan, or cooperative Agreement to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions. (Only applies to contracts over \$100,000)

### 37. Certificate of Independent Price Determination

Offeror agrees that all prices in this Offer have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other Offeror or with any competitor certification regarding non-collusion.

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### 38. Civil Rights Compliance

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, sex, disability, age, or reprisal or retaliation for prior civil rights activity in any program or activity conducted or funded by USDA.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the Agency (State or local) where they applied for benefits.

Individuals who are deaf, hard of hearing or have speech disabilities may contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program complaint of discrimination, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at [http://www.ascr.usda.gov/complaint\\_filing\\_cust.html](http://www.ascr.usda.gov/complaint_filing_cust.html), and at any USDA office, or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690- 7442; or (3) email: [program.intake@usda.gov](mailto:program.intake@usda.gov).

### 39. Clean Air Act, Clean Water Act, and Environmental Protection Agency Regulation

Contractor shall comply with all applicable standards, orders or requirements issued under Section 306 of the Clean Air Act, Section 508 of the Clean Water Act, Executive Order 11738 and Environmental Protection Agency regulations which prohibit the use, under nonexempt federal contracts, grants or loans to facilities included on the EPA List of Violating Facilities. The District will report all violations to ADE and to the USEPA Assistant Administrator for Enforcement. (Only applies to contracts over \$100,000)

### 40. Contract Work Hours and Safety Standard Act

Contractor shall comply with Sections 103 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327– 330) as supplemented by Department of Labor regulations (29 C.F.R. Part 5). (Only applies to contracts over \$2,500)

### 41. Debarment, Suspension, Ineligibility and Voluntary Exclusion

By signing the Offer & Acceptance form, Contractor shall certify that they have not been debarred, suspended, or otherwise excluded from or ineligible for participation in federal assistance programs under executive order 12549 and 12689. Contractor shall comply with regulations implementing Office of Management and Budget Guidance in Non-Procurement Debarment and Suspension codified at 2 C.F.R. Part 180 and 2 C.F.R. Part 417. These regulations restrict transactions with certain parties that are debarred, suspended or otherwise excluded from, or ineligible for, participation in Federal assistance programs or activities. (Only applies to contracts over \$25,000)

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**42. Energy Policy and Conservation Act**

Contractor shall meet the mandatory standards and policies relating to energy efficiency which are contained in the State Energy Conservation Plan issued in compliance with the Energy Policy and Conservation Act. (Pub. L. 94-163, 89 Stat. 871.)

**43. Equal Employment Opportunity**

Contractor shall comply with Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 C.F.R. chapters 60).

**44. Record Keeping**

The books, documents, papers and records of Contractor pertaining to operations under this Agreement shall be available to the District at any reasonable time. These records are subject to inspection or audit by duly authorized representatives of the District, State Agency, the US Department of Agriculture, and the US General Accounting Office at any reasonable time and place. The District shall maintain such records, for a period of not less than five (5) years after the final day of the contract, or longer if required for audit resolution (A.R.S §35-214). 7CFR§210.23 and 2 C.F.R. Part 200.318(i).

**45. Invoicing**

Contractor fully discloses all discounts, rebates, allowances and incentives received by Contractor from its suppliers. If Contractor receives a discount, rebate, allowance, or incentive from any supplier, Contractor must disclose and return to the District the full amount of the discount, rebate, or applicable credit that is received based on the purchases made on behalf of the District. Contractor must identify the amount of each discount, rebate and other applicable credit on bills and invoices presented to the school food authority for payment and individually identify the amount as a discount, rebate, or in the case of other applicable credits, the nature of the credit. 7CFR§210.21(f)(1)(iv).

No expenditure may be made from the nonprofit school food service account for any cost resulting from a cost-reimbursable contract that fails to include the requirements of 7CFR§210.21, nor may any expenditure be made from the nonprofit school food service account that permits or results in Contractor receiving payments in excess of the Contractor's actual, net allowable costs. 7CFR§210.21 (f)(2)

**46. Termination Clause**

The contract may be terminated for cause and for convenience by the District. Appendix II to 2 C.F.R. Part 200. (Only applies to contracts over \$10,000).



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#### 47. Other Requirements

This is an occupied school campus where the educational process comes first. Therefore, scheduling is essential to completing the project successfully. Significant coordination is required in terms of work processes to avoid disruption of the educational environment. Thus, the ultimate standards must be in place:

- A. Sign-in and present positive identification
- B. Park in assigned locations
- C. No weapons in vehicles or on campus
- D. No smoking on campus
- E. No foul or offensive language
- F. No alcohol or tobacco use of any kind on campus to include on person, in vehicles or equipment
- G. No clothing referencing any of the above
- H. No speaking to students
- I. No leering or whistling
- J. Site must be safe at the end of each day
- K. These are no tolerance terms

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### Scope of Work

#### Project

Coatimundi Middle School - Fire Alarm Replacement

#### Contractor Requirements

Contractor shall have a minimum of five (5) years of experience in new construction services.

#### Drawings, Detailed Scope of Work and Specifications

Construction documents from ADM Group, Inc. are titled as follows:

“Coatimundi Middle School – Fire Alarm Replacement”

#### Project Manual

Exhibit A: Construction Documents – Drawings

Exhibit B: Specifications “SCVUSD Coatimundi Middle School-Fire Alarm Replacement”

All materials and equipment shall be new. Refurbished materials and equipment will not be accepted.

#### Preconstruction Meeting

This date will be established after the award of contract.

#### School Information

Santa Cruz Valley Unified School District - 570 Camino Lito Galindo, Rio Rico AZ

Office Hours: 7:30 a.m. – 4:00 p.m. | Office Phone: (520) 281-8282

**Work Hours:** Due to COVID19, HOURS ARE LIMITED

**Utilities** - Contractor shall provide, and maintain in clean order, temporary toilet facilities for use throughout the project duration.

#### General Project Notes

- A. The contractor shall be responsible for verifying the existence and location of all underground or concealed utilities in advance of any construction. The contractor is responsible to hire a private utility locating service to locate all underground utilities on or near the project site.
- B. Contractor shall be responsible for verifying any or all existing conditions prior to the start of construction. Any utilities found to be in the way of the new construction shall be removed, relocated or replaced as directed. Refer to plumbing, electrical, mechanical and/or civil plans for specific requirements.

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- C. It shall be the contractor's responsibility to remove all abandoned (retired) utilities that interfere with the construction project. The contractors and local utility and traffic crews shall coordinate work schedules so as to prevent any conflicting work conditions.
- D. Contractor shall repair any and all utilities damaged during the course of construction in accordance with local specifications, at no additional cost.
- E. Contractor to notify "Arizona 811" @ 1-800-782-5348, at least 48-hours in advance of any excavation. Utility locations shall be coordinated with the architect.
- F. All items removed shall be temporarily stored in a location approved by the owner, and the owner shall review all items prior to any disposal. Any item which is deemed salvageable shall remain the owner's property and will be removed to storage facilities designated by the owner for future use. If the owner deems an item as non-salvageable, the contractor shall dispose of it.
- G. The contractor is responsible for the removal and disposal of any debris resulting from the demolition and construction. At no time shall any of this material obstruct the normal operation.
- H. Contractor shall be responsible for the removal of any or all excess excavation and construction related debris, at the end of each work day.
- I. The contractor is advised that damage to any portion of this project's building(s) & surrounding area as a result of this project is to be repaired at the contractor's expense.
- J. It is the contractor's responsibility to inspect the job site to familiarize her/him-self with all the existing conditions that could affect the installation of any work set forth in these plans.
- K. The job site, at the completion of construction, shall be cleaned of any debris or spoils resulting from the construction.
- L. The contractor is responsible to field verify all existing recorded dimensions indicated and all existing conditions that impact new construction.
- M. The contractor shall establish all quantities based on actual conditions. These drawings are not to be scaled.
- N. Metal stud partitions are dimensioned to face of stud. All rough openings are located 4" to nearest adjacent wall unless dimensioned otherwise.
- O. Comply with all applicable codes, rules and regulations. Obtain and pay for all permits and licenses required.
- P. Refer to building code analysis sheets for additional code requirements.
- Q. The contractor shall notify the architect at least 72 hours in advance of any construction that requires special/required inspection(s).
- R. Reference all architectural, civil, landscaping, mechanical, plumbing, electrical, and telecommunication sheets for scope of work & coordination.
- S. All materials required shall be of a grade and quality consistent with the intended use as specified & approved by the architect.
- T. All equipment or materials not shown or specified on the plans or in the specifications but are required to complete the installation shall be supplied by the contractor as part of the contract work.
- U. Seal all penetrations around pipe/conduit at all wall penetrations.
- V. Unless otherwise noted all blocking or backing material shall be solid wood for all wall mounted items.
- W. Install a continuous bead of sealant at all gaps/seams between immovable equipment and walls.
- X. All surfaces shall be painted or finished per specification. Refer to floor plans, room finish schedule, building/wall sections, details and specifications for additional painting & finish requirements.
- Y. All terminations of carpet, tile, or vct to another floor material shall have transition or reducer strips - see specs.
- Z. All interior finishes shall conform to the requirements of chapter 8 of the 2018 international building code.
- AA. Provide an escutcheon at each pipe penetration @ floor and/or wall surfaces, typical.
- BB. All cores into walls and slabs shall be prior approved by the architect and structural engineer.

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- CC. Install gypsum board control joints at all locations indicated or if not indicated as according to the requirements that are established in the specifications.
- DD. Fire lanes shall be maintained in a condition to assure access to all buildings during construction.
- EE. All new roofing systems to have a class "a" fire rating per specification section 07527.
- FF. Smoking, tobacco products, or electronic cigarettes are prohibited on campus.

**Cleanup**

The Contractor, at all times, shall keep the premises free from accumulation of waste materials or rubbish caused by construction operations. Upon completion of the work, remove all waste materials and rubbish from and about the Project, as tools, construction equipment, machinery and surplus materials. If the Contractor fails to clean up the work, the District may do so and the cost thereof shall be charged back to the Contractor. Remove all surplus materials and debris of every nature resulting from operations, and put the site in a neat, orderly condition. District trash receptacles shall not be utilized without specific written approval.

**Worksite Safety Restoration**

The contractor shall repair, rebuild or otherwise acceptably restore any property on or adjacent to the worksite that was damaged during the course of work on the project. Such restoration shall be at the contractor's expense, and is not subject to reimbursement by the District. Awarded firm shall remove all old equipment, trash/waste from the worksite as a result of their efforts.

**Questions**

Offerors who have questions about this IFB are required to submit their questions, by email, to Lourdes Ocampo at [locampo@scv35.org](mailto:locampo@scv35.org). **All questions must be submitted by December 14, 2020 at 2:00 p.m. Arizona Time.** Responses will be addressed in an Addendum to the IFB if necessary. Addendums must be acknowledged where designated in the solicitation. The purpose of the Addendum is to clarify, if necessary, the terms of this Invitation for Bid, and to prevent any misunderstanding of the District's intention in this matter. If anyone should have a discrepancy in, or omission from, the general terms and conditions of this Invitation for Bid, or if in doubt as to their meaning, such matters should be presented in writing.

Phone calls with questions or requests for information regarding the Invitation for Bid will not be accepted. Oral statements or instructions will not constitute an amendment to this Invitation for Bid. Please submit any questions or discrepancies to Lourdes Ocampo at [locampo@scv35.org](mailto:locampo@scv35.org). We recommend you request a delivery and read receipt of all e-mails sent to the District regarding this solicitation.

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**SUBSTITUTION REQUEST FORM**

**If your organization is offering substitution equipment for consideration submit this completed form via email to:**

Santa Cruz Valley Unified School District, Lourdes Ocampo at [locampo@scv35.org](mailto:locampo@scv35.org) and ADM Group, Inc.'s representative, Jenifer Weskalnies at [jweskalnies@admgrouppinc.com](mailto:jweskalnies@admgrouppinc.com) no later than **2:00 p.m. Arizona Time, December 14, 2020.**

The following is hereby submitted for consideration:

Proposed Substitution:

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The complete product description, drawings, photographs, performance and test data and other information necessary for evaluation are found attached, including specific model numbers, finishes, options, etc.

**A.** Is the "Intent to Warranty" from the manufacturer or reputable distributor attached listing the School Site address and Santa Cruz Valley Unified School District as the Owner?

Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

**B.** Are changes required to the current project design in order to properly install proposed substitutions? Is the weight equal?

Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

**C.** Will the undersigned pay for changes to the project design, including engineering and drawing costs, caused by requested substitutions?

Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

**D.** List differences between proposed substitution(s) and specified item. (Additional sheets may be included to support your statements below).

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**E.** Does substitution affect Drawing dimensions?

Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

**F.** What effect does substitution have on other trades?

Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

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|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>42<br>of<br>67 |   |

**G.** Does manufacturer's warranty or proposed substitution differ from that specified?  
 Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

**H.** Will substitution affect progress schedule?  
 Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

**I.** Will substitution require more license fees or royalties than specified product?  
 Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

**J.** Will maintenance and service parts be locally available for substitutions?  
 Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

**K.** Does the manufacturer have an unresolved warranty issues with any previous District projects?  
 Yes \_\_\_ No \_\_\_ If No, explain: \_\_\_\_\_

Submitted By: \_\_\_\_\_

\_\_\_\_\_  
**Signature** **Printed Name** **Date**

\_\_\_\_\_  
**Telephone** **Email** **Fax**

**For District/ADM Group, Inc. Only:**

\_\_\_\_\_  
**Signature** **Printed Name** **Date**

**Accepted:** \_\_\_\_\_  
**Accepted as Noted Signature**

**Rejected:** \_\_\_\_\_  
**Rejected as Noted Signature**

**Remarks:**  
 \_\_\_\_\_  
 \_\_\_\_\_



|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>43<br>of<br>67 |   |

## BID COVER SHEET

### Coatimundi Middle School - Fire Alarm Replacement

Three (3) copies of your bid, (1) original, (1) copy, and one (1) USB must be submitted. The Santa Cruz Valley Unified School District #35 will not assume responsibility for any costs related to the preparation or submission of the bid.

| Checklist  | Initial each Box when completed |
|--|---------------------------------|
| <b>Bid Pricing Submittal</b> – should include  |                                 |
| <i>Guarantees of materials, warranty and workmanship</i>   |                                 |
| <i>Restatement of Work</i>   |                                 |
| <i>Scheduled based on Notice to Proceed through Substantial Completion on company letterhead</i>   |                                 |
| <i>Intent to Warranty – required for applied coating systems only</i>  |                                 |
| <b>Bid Bond</b> – 10% of the Total Bid Project Cost <b>Performance Bond</b> – <i>within 48 hours of award</i>  |                                 |
| <b>Payment Bond</b> – <i>within 48 hours of award</i>  |                                 |
| <b>Subcontractor List</b> – Should be completed and submitted in a separate envelope even if self- performing 100% of the work. Applied coating systems certification should be included, if applicable to any Subcontractors listed |                                 |
| <b>Asbestos Certification Statement - <i>Notarized</i> Questionnaire</b>   |                                 |
| <i>Company Profile Information</i>   |                                 |
| <i>References</i>  |                                 |
| <i>Copy of appropriate AZ Construction License(s)</i>  |                                 |
| <b>Addendum(s)</b>   |                                 |
| <b>Drug Free Work Place Form Confidential / Proprietary Statement Conflict of Interest</b>   |                                 |
| <b>Non-Collusion Statement - <i>Notarized</i> Deviations and Exceptions</b>  |                                 |
| <b>Offer and Acceptance</b>  |                                 |
| <b>Certification of Insurance</b>  |                                 |
| <b>Vendor Application</b>  |                                 |
| <b>I.R.S. W-9 Form</b>   |                                 |
| <b>Bid Package Label</b>   |                                 |

The form of contract for any award made as a result of this bid will be a district purchase order referencing this bid. The amount will be based upon the fees shown in the bid, and will take into consideration previous and anticipated expenses for the forthcoming year. If your firm will require the District to sign an additional or separate contract, a copy of the proposed contract must be included with the bid.

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>44<br>of<br>67 |   |

**BID FORMS**

RE:               SANTA CRUZ VALLEY UNIFIED SCHOOL DISTRICT  
                     COATIMUNDI MIDDLE SCHOOL - FIRE ALARM REPLACEMENT

TO:               SANTA CRUZ VALLEY UNIFIED SCHOOL DISTRICT  
                     570 CAMINO LITO GALINDO  
                     RIO RICO, ARIZONA 85648

We, the undersigned, propose to do all the work and furnish all the labor, physical plant and materials necessary for the work set forth in the Bidding Documents, titled *Coatimundi Middle School-Fire Alarm Replacement*. We further declare that we have carefully read and examined the referenced Bidding Documents that we have made a personal examination of the site, we understand the exact Scope of the Project, and by making the Bid, declare that we are in compliance with all requirements thereof. We acknowledge receipt

of the following Drawing Issue and Addenda and have included their provisions in this Bid.

|                          |                      |
|--------------------------|----------------------|
| Addendum No. _____ Dated | Drawings Dated       |
| Addendum No. _____ Dated | Specifications Dated |
| Addendum No. _____ Dated | Drawings Dated       |
| Addendum No. _____ Dated | Specifications Dated |

1. To hold the Bid open until 60 days after date for receipt of bids.
2. To enter into and execute a Contract, and to furnish Statutory Performance and Payment Bonds and Insurance Certificates in accordance with the Contract Documents, within 24 hours after notice of award of contract.
3. To accomplish the work in accordance with the Contract Documents.
4. To provide substantial completion of the work by the date stated in the Calendar of Events contained in the Project Manual and that failure to meet this provision will result in Owner applying provisions of liquidated damages in accordance with the Contract Documents.

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>45<br>of<br>67 |   |

**Base Bid - SFB Funded Scope of Work:**

Coatimundi Middle School – Fire Alarm Replacement

The undersigned agrees to perform the work as described in the Contract Documents for the following lump sum price:

\_\_\_\_\_ Dollars

(\$ \_\_\_\_\_ )

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>46<br>of<br>67 |   |

We have enclosed the required photocopy of License(s) and Subcontractor List Form with this Bid.

Date \_\_\_\_\_

Contractor \_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Telephone \_\_\_\_\_

Surety \_\_\_\_\_

License No. \_\_\_\_\_

(Seal if Corporation)

**NOTE: Contractor has included all Allowance amounts found in Specifications Manual Section 01 21 in this Base Bid Amount**

**END OF SECTION**

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>47<br>of<br>67 |   |

**PROPOSED SUBCONTRACTORS FORM**

**PARTICULARS**

1.01 HEREWITH IS THE LIST OF SUBCONTRACTORS REFERENCED IN THE BID: SUBMITTED BY CONTRACTOR: [ ]

1.02 (OWNER): **SANTA CRUZ VALLEY UNIFIED SCHOOL DISTRICT**

1.03 THE FOLLOWING SUBCONTRACTORS WILL WORK ON THE CONSTRUCTION OF THE ABOVE NAMED PROJECT IF THE BID IS ACCEPTED BY THE OWNER FROM THE ABOVE NAMED GENERAL CONTRACTOR. "GENERAL CONTRACTOR" IS INSERTED FOR THOSE CATEGORIES FOR WHICH NO SUB-CONTRACT WILL BE LET. "NOT APPLICABLE" IS INSERTED FOR THOSE CATEGORIES WHICH THE GENERAL CONTRACTOR BELIEVES ARE NOT APPLICABLE TO THIS PROJECT.

**LIST OF SUBCONTRACTORS**

**CONCRETE: (DIVISION 3)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**MASONRY: (DIVISION 4)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**STEEL: (DIVISION 5)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**ROUGH CARPENTRY: (06 10 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>48<br>of<br>67 |   |

**ARCHITECTURAL WOOD WORK: (06 40 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**WATERPROOFING: (07 13 13)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**INSULATION: (07 21 29)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**ROOFING: (07 31 13)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**FLASHING AND SHEET METAL: (07 62 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**HOLLOW METAL DOORS AND FRAMES: (08 11 13)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |



|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>49<br>of<br>67 |   |

**DOOR HARDWARE (08 71 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**GLAZING (08 80 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**GYPSUM BOARD (09 21 16)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**TILE (09 30 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**ACOUSTICAL CEILINGS (09 51 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**PAINTING: (09 91 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>50<br>of<br>67 |   |

**TOILET ACCESSORIES: (10 28 13)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**PLASTIC LAMINATE FACED CASEWORK: (12 34 19)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**PLUMBING: (DIVISION 22)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**HVAC: (DIVISION 23)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**ELECTRICAL: (DIVISION 26)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>51<br>of<br>67 |   |

**PRE-ENGINEERED METAL BUILDING: (13 34 19)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**SOIL TREATMENT (31 31 00)**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**FIRE PROTECTION / FIRE ALARM**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**FIRE PROTECTION / FIRE SPRINKLER**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**THEATRICAL SEATING**

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |



**NOTICE OF INVITATION FOR BID**

IFB: 21-02  
SFB#: BRG-DSGN-00098  
PROJECT: Coatimundi Middle School  
SFB BRG for Fire Alarm Replacement

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of  
67

Santa Cruz Valley Unified  
School District #35  
570 Camino Lito Galindo  
Rio Rico, AZ 85648  
520-281-8282

OTHER

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

OTHER

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

OTHER

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

OTHER

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

OTHER

|                      |  |              |  |
|----------------------|--|--------------|--|
| Name:                |  | License No.: |  |
| Address:             |  | Contact:     |  |
| Address - City State |  | Class:       |  |
| Phone:               |  |              |  |

**END OF SECTION**

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>53<br>of<br>67 |   |

**BID BOND PURSUANT TO RULE R7-2-1102  
 OF THE ARIZONA ADMINISTRATIVE CODE  
 (SCHOOL DISTRICT PROCUREMENT RULES)  
 (Penalty of this bond must be not less than 10% of the bid amount)**

Coatimundi Middle School – Fire Alarm Replacement

KNOW ALL PERSONS BY THESE PRESENTS:

THAT, (hereinafter called the "Principal"), as Principal, and \_\_\_\_\_, a corporation organized and existing under the laws of the State of, with its principal office in the City of (hereinafter called the Surety"), as Surety, are held and firmly bound unto Santa Cruz Valley Unified School District No. 35 (hereinafter called the ("Obligee") in the amount of \_\_\_\_\_ Dollars (\$\_\_\_\_\_), for the payment whereof, the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for \_\_\_\_\_

NOW, THEREFORE, if the Obligee shall accept the proposal of the Principal and the Principal shall enter into a contract with the Obligee in accordance with the terms of the proposal and give the bonds and certificates of insurance as specified in the standard specifications with good and sufficient surety for the faithful performance of the contract and for the prompt payment of labor and materials furnished in the prosecution of the contract, or in the event of the failure of the Principal to enter into the contract and give the bonds and certificates of insurance, if the Principal pays the Obligee the difference not to exceed the penalty of the bond between the amount specified in the proposal and such larger amount for which the Obligee may in good faith contract with another party to perform the work covered by the proposal, then this obligation is void. Otherwise, it remains in full force and effect; provided, however, that this bond is executed pursuant to the provisions of Ariz. Admin. Code Rule R7-2-1102, and all liabilities on this bond shall be determined in accordance with the provisions of the section to the extent as if it were copied at length herein.

The prevailing party in a suit on this bond shall recover as a part of his judgment such reasonable attorneys' fees as may be fixed by a judge of the Court.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 2020. \_\_\_\_\_

PRINCIPAL

\_\_\_\_\_

AGENCY OF RECORD

\_\_\_\_\_

Agency Address

Seal

By \_\_\_\_\_ Title \_\_\_\_\_

SURETY Seal By \_\_\_\_\_

Title \_\_\_\_\_

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>54<br>of<br>67 |   |

**PERFORMANCE BOND  
 PURSUANT TO R7-2-1103 OF THE ARIZONA ADMINISTRATIVE CODE  
 (SCHOOL DISTRICT PROCUREMENT RULES)  
 (Penalty of this bond must be 100% of the Contract Amount)**

Coatimundi Middle School – Fire Alarm Replacement

KNOW ALL PERSONS BY THESE PRESENTS: THAT, \_\_\_\_\_  
 (hereinafter called the "Principal"), as Principal, and \_\_\_\_\_, a corporation organized and existing under  
 the laws of the State of \_\_\_\_\_, with its principal office in the City of \_\_\_\_\_ (hereinafter called the "Surety"), as  
 Surety, are held and firmly bound unto Santa Cruz Valley Unified School District No. 35, Santa Cruz County, Arizona (hereinafter  
 called the "Obligee"), for the amount of \_\_\_\_\_ Dollars (\$\_\_\_\_\_) for the payment whereof,  
 the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors, and assigns, jointly and severally,  
 firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the Obligee, entitled Contract and General Conditions  
 Between Owner and Contractor, dated the \_\_\_\_ day of \_\_\_\_\_, 2020 ("Contract"), to construct and complete certain work  
 described as \_\_\_\_\_, which Contract is hereby referred to and made a part hereof as fully and to  
 the same extent as if copied at length herein.

NOW, THEREFORE, the condition of this obligation is such that if the Principal faithfully performs and fulfills all of the  
 undertakings, covenants, terms, conditions and agreements of the Contract during the original term of the Contract and any extension  
 of the Contract, with or without notice to the Surety, and during the life of any guaranty required under the Contract, and also  
 performs and fulfills all of the undertakings, covenants, terms, conditions and agreements of all duly authorized modifications of the  
 Contract that may hereafter be made, notice of which modifications to the Surety being hereby waived, the above obligation is void.  
 Otherwise, it remains in full force and effect.

Provided, however, that this bond is executed pursuant to the provisions of Arizona Administrative Code Rule R7-2-1103, and all  
 liabilities on this bond shall be determined in accordance with the provisions of said Rule, to the extent as if it were copied at length in  
 this agreement.

The prevailing party in a suit on this bond shall recover as part of the judgment reasonable attorney fees that may be fixed by a judge  
 of the Court.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 2020. \_\_\_\_\_

PRINCIPAL

\_\_\_\_\_

AGENCY OF RECORD

\_\_\_\_\_

Agency Address

Seal

By \_\_\_\_\_ Title \_\_\_\_\_

SURETY Seal By \_\_\_\_\_ Title \_\_\_\_\_



|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>55<br>of<br>67 |   |

**PAYMENT BOND**  
**PURSUANT TO R7-2-1103 OF THE ARIZONA ADMINISTRATIVE CODE**  
**(SCHOOL DISTRICT PROCUREMENT RULES)**  
**(Penalty of this bond must be 100% of the Contract Amount)**

Coatimundi Middle School – Fire Alarm Replacement

KNOW ALL PERSONS BY THESE PRESENTS:

THAT, \_\_\_\_\_ (hereinafter called the "Principal"), as Principal, and \_\_\_\_\_, a corporation organized and existing under the laws of the State of \_\_\_\_\_, with its principal office in the City of \_\_\_\_\_ (hereinafter called the "Surety"), as Surety, are held and firmly bound unto Santa Cruz Valley Unified School District No. 35, Santa Cruz County, Arizona (hereinafter called the "Obligee"), for the amount of \_\_\_\_\_ Dollars (\$\_\_\_\_\_) for the payment whereof, the said Principal and Surety bind themselves, and their heirs, administrators, executors, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the Obligee, entitled Contract and General Conditions Between Owner and Contractor, dated the \_\_\_\_ day of \_\_\_\_\_, 2020 ("Contract"), to construct and complete certain work described as \_\_\_\_\_, which Contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, the condition of this obligation is such that if the Principal promptly pays all monies due to all persons supplying labor or materials to the Principal or the Principal's subcontractors in the prosecution of the work provided for in the Contract, this obligation is void. Otherwise it remains in full force and effect.

Provided, however, that this bond is executed pursuant to the provisions of Arizona Administrative Code Rule R7-2-1103, and all liabilities on this bond shall be determined in accordance with the provisions, conditions and limitations of said Rule, to the extent as if it were copied at length in this agreement.

The prevailing party in a suit on this bond shall recover as part of the judgment reasonable attorney fees that may be fixed by a judge of the Court.

Witness our hands this \_\_\_\_\_ day of \_\_\_\_\_, 2020. \_\_\_\_\_

PRINCIPAL

\_\_\_\_\_

AGENCY OF RECORD

\_\_\_\_\_

Agency Address

Seal By \_\_\_\_\_ Title \_\_\_\_\_

SURETY Seal By \_\_\_\_\_ Title \_\_\_\_\_

|  |                                     |      |   |
|--|-------------------------------------|------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b> |      | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02                          | Page |   |
|  | SFB#: BRG-DSGN-00098                | 56   |   |
|  | PROJECT: Coatimundi Middle School   | of   |   |
|  | SFB BRG for Fire Alarm Replacement  | 67   |   |

## ASBESTOS CERTIFICATION STATEMENT

**PROJECT:** Coatimundi Middle School – Fire Alarm Replacement

CONTRACTOR, The person, corporation or company who makes the accompanying Bid, having first been duly sworn, deposes and says: All materials to be used in the above referenced project are and shall be free of asbestos.

\_\_\_\_\_

(Name)

\_\_\_\_\_

(Title)

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 2020

Signature of Notary Public in and for the

State of \_\_\_\_\_

County of \_\_\_\_\_

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>57<br>of<br>67 |   |

## QUESTIONNAIRE

A. Provide the name and address of the primary contact person and servicing office location:

|   |  |
|---|--|
| Name  |  |
| Title   |  |
| Company Name                                    |  |
| Physical Address                                |  |
| City, State and Zip                             |  |
| Main Number                                     |  |
| Alternate or Cell Number                        |  |
| Email Address                                   |  |
| AZ Construction License(s) ROC# (attach copies) |  |

B. Contractor is licensed and registered in State of Arizona. YES \_\_\_\_\_ NO \_\_\_\_\_

C. Contractor has a minimum of five (5) years' experience in new construction services. YES \_\_\_\_\_ NO \_\_\_\_\_

D. Contractor has provided a list of previous projects with experience. YES \_\_\_\_\_ NO \_\_\_\_\_

E. Does your firm obtain current valid fingerprint clearance cards from employees? YES \_\_\_\_\_ NO \_\_\_\_\_

F. Does your firm perform criminal background checks on employees? YES \_\_\_\_\_ NO \_\_\_\_\_

G. Does your firm conduct random drug screens for employees? YES \_\_\_\_\_ NO \_\_\_\_\_

H. Are there any pending reviews or litigation involving your firm in the past five years? YES \_\_\_\_\_ NO \_\_\_\_\_ If Yes, attached explanation.

I. Have you had any complaints filed with the Better Business Bureau in the last five years? YES \_\_\_\_\_ NO \_\_\_\_\_ If Yes, attached explanation and details how the complaints were resolved?

J. List three (3) Arizona References of similar projects:

**District/Owner Contact Phone Email Contract Term**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
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## DRUG FREE WORK PLACE FORM

- The use, possession, solicitation for or sale of narcotics or other illegal drugs, alcohol, or prescription medication without a prescription on District premises or while performing an assignment.
- Being impaired or under the influence of legal or illegal drugs or alcohol away from the District premises, if such impairment or influence adversely affects the employee's work performance, the safety of the employee or of others, or puts at risk the District's reputation.
- Possession, use, solicitation for, or sale of legal or illegal drugs or alcohol on District premises.
- The presence of any detectable amount of prohibited substances in the employee's system while at work, while on the District premises, or while on company business. "Prohibited substances" include illegal drugs, alcohol, or prescription drugs not taken in accordance with a prescription given to the employee.

The Offeror may conduct drug and/or alcohol testing under any of the following circumstances:

- **RANDOM TESTING:** Employees may be selected at random for drug and/or alcohol testing at any interval determined by the Company.
- **FOR-CAUSE TESTING:** The Company may ask an employee to submit to a drug and/or alcohol test at any time it feels that the employee may be under the influence of drugs or alcohol, including, but not limited to, the following circumstances: evidence of drugs or alcohol on or about the employee's person or in the employee's vicinity, unusual conduct on the employee's part that suggests impairment or influence of drugs or alcohol, negative performance patterns, or excessive and unexplained absenteeism or tardiness.
- **POST-ACCIDENT TESTING:** Any employee involved in an on-the-job accident or injury under circumstances that suggest possible use or influence of drugs or alcohol in the accident or injury event may be asked to submit to a drug and/or alcohol test. "Involved in an on-the-job accident or injury" means not only the one who was or could have been injured, but also any employee who potentially contributed to the accident or injury event in any way.

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Firm

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Authorized Signature

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>59<br>of<br>67 |   |

## CONFIDENTIAL/PROPRIETARY SUBMITTALS

Confidential/Proprietary Submittals (mark one):

No confidential/proprietary materials have been included with this offer.

Confidential/Proprietary materials included. Offerors should identify below any portion of their offer deemed confidential or proprietary (see Uniform General Terms and Conditions, paragraph 17).

Identification in this section does not guarantee that disclosure will be prevented but that the item will be subject to review by the Offeror and the District prior to any public disclosure. Requests to deem the entire offer or price as confidential will not be considered. The School District/Public Entity will not consider pricing to be confidential or proprietary.

Santa Cruz Valley Unified School District No. 35

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Firm

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Authorized Signature





|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>61<br>of<br>67 |   |

## NON-COLLUSION AFFIDAVIT

State of                    )  
                                   ) ss.  
 County of                )

\_\_\_\_\_  
 (Name)

the \_\_\_\_\_  
 (Title)

\_\_\_\_\_  
 (Contractor/Offeror)

The persons, corporation, or company who makes the accompanying bid, having first been duly sworn, deposes and says:

That such bid is genuine and not sham or collusive, nor made in the interest of, or behalf of, any persons not herein named, and that the Offeror has not directly or indirectly induces or solicited any other Offeror to put in a sham bid, or any other person, firm or corporation to refrain from bidding, and that the Offeror has not in any manner sought by collusion to secure for itself an advantage over any other Offeror.

\_\_\_\_\_  
 \_\_\_\_\_

(Title) Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_

Signature of Notary Public in and

for the County of \_\_\_\_\_ State of \_\_\_\_\_

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
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## DEVIATIONS AND EXCEPTIONS

Offerors shall indicate any and all exceptions taken to the provisions or specifications in this solicitation document. Exceptions (mark one):

\_\_\_\_\_ No exceptions

\_\_\_\_\_ Exceptions taken (describe below – attach additional pages if needed)

\_\_\_\_\_

Firm

\_\_\_\_\_

Authorized Signature

\_\_\_\_\_

By signature in the Offer section above, the Offeror certifies:

1. The submission of the offer did not involve collusion or other anti-competitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 75-5 or A.R.S. §§ 41-1461 through 1465 et. seq.
3. The Offeror has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror complies and maintains compliance with the Federal Immigration and Nationality Act (FINA), A.R.S. §41- 4401 and §23-214 which requires compliance with federal immigration laws by State employers, State contractors and State subcontractors in accordance with E-Verify Employee Eligibility Verification Program.
5. In accordance with A.R.S. §35-391, the Offeror does not have scrutinized business operations in Sudan.
6. In accordance with A.R.S. §35-392, the Offeror is in compliance and shall remain in compliance with the Export Administration Act.
7. In accordance with A.R.S. §35-393, the Offeror does not have scrutinized business operations in Iran.
8. In accordance with A.R.S. §15-512, the Offeror shall comply with fingerprinting requirements unless otherwise exempted.
9. By submission of this bid, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
10. By submission of this bid, that no Federal appropriated funds have been paid or will be paid by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with the awarding of a Federal contract, the making of a Federal grant, the making of a Federal loan, the entering into a Cooperative Agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative agreement.
11. In accordance with A.R.S. §§ 35-393, the Offeror is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
|  | IFB: 21-02<br>SFB#: BRG-DSGN-00098<br>PROJECT: Coatimundi Middle School<br>SFB BRG for Fire Alarm Replacement | Page<br>63<br>of<br>67 |   |

Contract Title: **IFB 21-02: Santa Cruz Valley Unified School District**

**ACCEPTANCE OF OFFER**

The Proposal is hereby accepted. The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the solicitation, including all terms, conditions, specifications, amendments, etc., and the Contractor’s Proposal as accepted by the School District/Public Entity.

This contract shall henceforth be referred to as Contract No **IFB 21-02 | SFB #BRG-DSGN-00098**. The Contractor is cautioned not to commence any billable work or to provide any material or service under this contract until Contractor receives a purchase order, contract release document, or written notice to proceed.

Awarded this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_

\_\_\_\_\_  
 Lourdes Ocampo, Purchasing

**CUT ALONG THE LINE AND AFFIX TO THE FRONT OF YOUR BID CONTAINER**

|  |   |                        |   |
|--|---|------------------------|---|
|  <b>SANTA CRUZ VALLEY</b><br>Unified School District No. 35<br>Educate Everyone Every Day | <b>NOTICE OF INVITATION FOR BID</b>   |                        | Santa Cruz Valley Unified<br>School District #35<br>570 Camino Lito Galindo<br>Rio Rico, AZ 85648<br>520-281-8282 |
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# SEALED BID

**Do not open this package until the due date and time listed below**

**Deliver To:**

Santa Cruz Valley Unified School District #35

**Attn: Purchasing Department | Lourdes Ocampo**

570 Camino Lito Galindo

Rio Rico, AZ 85648

**IFB 21-03 Santa Cruz Valley Unified School District**

**Opening Date: December 18, 2020 at 10:30AM**

**\*bids received after this date will not be opened**

**CUT ALONG THE LINE AND AFFIX TO THE FRONT OF YOUR BID CONTAINER**



**NOTICE OF INVITATION FOR BID**

IFB: 21-02  
 SFB#: BRG-DSGN-00098  
 PROJECT: Coatimundi Middle School  
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Santa Cruz Valley Unified  
 School District #35  
 570 Camino Lito Galindo  
 Rio Rico, AZ 85648  
 520-281-8282

Form **W-9**  
 (Rev. October 2018)  
 Department of the Treasury  
 Internal Revenue Service

**Request for Taxpayer  
 Identification Number and Certification**

**Give Form to the  
 requester. Do not  
 send to the IRS.**

► Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

**1** Name (as shown on your Income tax return). Name is required on this line; do not leave this line blank.

**2** Business name/disregarded entity name, if different from above

**3** Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

Individual/sole proprietor or single-member LLC

C Corporation

S Corporation

Partnership

Trust/estate

Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► \_\_\_\_\_

**Note:** Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

Other (see instructions) ► \_\_\_\_\_

**4** Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) \_\_\_\_\_

Exemption from FATCA reporting code (if any) \_\_\_\_\_

*(Applies to accounts maintained outside the U.S.)*

**5** Address (number, street, and apt. or suite no.) See instructions.

**6** City, state, and ZIP code

**7** List account number(s) here (optional)

Requester's name and address (optional)

**Part I Taxpayer Identification Number (TIN)**

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

**Note:** If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

**Social security number**

\_\_\_\_ - \_\_\_\_ - \_\_\_\_\_

**or**

**Employer identification number**

\_\_\_\_ - \_\_\_\_\_

**Part II Certification**

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

**Sign Here** Signature of U.S. person ► \_\_\_\_\_ Date ► \_\_\_\_\_

**General Instructions**

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

**Purpose of Form**

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
  - Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
  - Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
  - Form 1099-S (proceeds from real estate transactions)
  - Form 1099-K (merchant card and third party network transactions)
  - Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
  - Form 1099-C (canceled debt)
  - Form 1099-A (acquisition or abandonment of secured property)
- Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.
- If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.*



**SANTA CRUZ VALLEY**  
Unified School District No. 35  
Educate Everyone Every Day

**NOTICE OF INVITATION FOR BID**

IFB: 21-02  
SFB#: BRG-DSGN-00098  
PROJECT: Coatimundi Middle School  
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Santa Cruz Valley Unified  
School District #35  
570 Camino Lito Galindo  
Rio Rico, AZ 85648  
520-281-8282

**EXHIBIT A**  
**DRAWINGS**



# ABBREVIATIONS

|         |                              |           |                                      |
|---------|------------------------------|-----------|--------------------------------------|
| A/C     | AIR CONDITIONING             | A.B.      | ANCHOR BOLTS                         |
| ABC     | AGGREGATE BASE COURSE        | ABV.      | ABOVE                                |
| A.C.    | ACOUSTICAL                   | A.D.      | AREA DRAIN                           |
| AC.T.   | ACOUSTICAL TILE              | ADH.      | ADHESIVE                             |
| ADD.    | ADDENDUM                     | ADJ.T.    | ADJUSTABLE                           |
| ADJ.    | ADJACENT                     | AL.       | ALUMINUM                             |
| A.F.F.  | ABOVE FINISH FLOOR           | ANC.      | ANCHOR, ANCHORAGE                    |
| ALT.    | ALTERNATE                    | A.P.      | ACCESS PANEL                         |
| ANOD.   | ANODIZED                     | ARCH.     | ARCHITECT                            |
| APPROX. | APPROXIMATE                  | ASPH.     | ASPHALT                              |
| BD.     | BOARD                        | AUTO.     | AUTOMATIC                            |
| BIT.    | BITUMINOUS                   | BSMT.     | BASEMENT                             |
| BLK.    | BLOCK                        | BUILD.    | BUILDING                             |
| BRG.    | BEARING                      | BLKG.     | BLOCKING                             |
| CAB.    | CABINET                      | BRK.      | BRICK                                |
| C.B.    | CATCH BASIN                  | CM        | CENTIMETER                           |
| CER.    | CERAMIC                      | C.O.      | CLEAN OUT                            |
| C.G.    | CORNER GUARD                 | CER.      | CERAMIC                              |
| CHBD.   | CHALKBOARD                   | CEM.      | CEMENT                               |
| CLG.    | CEILING                      | C.F.      | CUBIC FOOT                           |
| CLR.    | CLEAR(ANCE)                  | C.I.      | CAST IRON                            |
| CONC.   | CONCRETE                     | CMU       | CONCRETE MASONRY UNIT                |
| CONST.  | CONSTRUCTION                 | COL.      | COLUMN                               |
| CRS.    | COURSE(S)                    | CY.       | CUBIC YARD                           |
| CTR.    | COUNTER                      | CONT.     | CONTINUOUS, CONTINUE                 |
| C.I.P.  | CAST-IN-PLACE                | CORR.     | CORRUGATED                           |
| D.      | DRAIN                        | C.T.      | CERAMIC TILE                         |
| DET.    | DETAIL OR D+1                | D.F.      | DRINKING FOUNTAIN                    |
| D.G.    | DECOMPOSED GRANITE           | DWG.      | DRAWING                              |
| D.L.    | DEAD LOAD                    | DIA.      | DIAMETER                             |
| DR.     | DOOR                         | DIM.      | DIMENSION                            |
| EDF.    | ELECTRIC DRINKING FOUNTAIN   | D.T.      | DRAIN TILE                           |
| E.J.    | EXPANSION JOINT              | EL.       | ELEVATION                            |
| ELEC.   | ELECTRIC(AL)                 | ELV.      | ELEVATOR                             |
| EQMT.   | EQUIPMENT                    | ENCL.     | ENCLOSE(URE)                         |
| EXH.    | EXHAUST                      | EQ        | EQUAL                                |
| E.B.    | EXPANSION BOLT               | EXIST.    | EXISTING                             |
| F.A.    | FIRE ALARM, FRESH AIR        | EXT.      | EXTERIOR                             |
| F.E.    | FIRE EXTINGUISHER            | F.B.O.    | FURNISHED BY OTHERS                  |
| F.F.    | FACTORY FINISH, FINISH FLOOR | F.D.      | FLOOR DRAIN                          |
| FLR.    | FLOOR(ING)                   | F.E.C.    | FIRE EXTINGUISHER CABINET            |
| F.O.M.  | FACE OF MASONRY              | FIN.      | FINISH(ED)                           |
| FP.     | FIREPROOF                    | FLG.      | FLASHING                             |
| FR.     | FRAME(D), (ING)              | FLUOR.    | FLUORESCENT                          |
| GA.     | GALVE                        | FND.      | FOUNDATION                           |
| G.I.    | GALVANIZED IRON              | F.O.S.    | FACE OF STUDS                        |
| GL.     | GLASS, GLAZING               | FTG.      | FOOTING                              |
| GVL.    | GRAVEL                       | GYP.BD.   | GYP SUM BOARD                        |
| H.B.    | HOSE BIBB                    | GALV.     | GALVANIZED                           |
| H.C.    | HOLLOW CORE                  | GD.       | GRADE, GRADING                       |
| H.M.    | HOLLOW METAL                 | GYP.      | GYP SUM                              |
| HC      | HANDICAPPED                  | HWD.      | HARDWOOD                             |
| I.C.F.  | INSULATED CONCRETE FORM(S)   | HORIZ.    | HORIZONTAL                           |
| I.D.    | INSIDE DIAMETER              | HT.       | HEIGHT                               |
| INS.    | INSULATE(D), (ION)           | HVAC      | HEATING/VENTILATING/AIR CONDITIONING |
| INT.    | INTERIOR                     | INCL.     | INCLUDE(D), (ING)                    |
| JST.    | JOIST                        | INV.      | INVERT                               |
| J.C.    | JANITOR'S CLOSET             | JOINT     | JOINT                                |
| K.D.    | KNOCKED DOWN                 | KITCHEN   | KITCHEN                              |
| LAV.    | LAVATORY                     | LAM.(D)   | LAMINATE(D)                          |
| L.H.    | LEFT HAND                    | LIVE LOAD | LIVE LOAD                            |
| L.L.V.  | LONG LEG VERTICAL            | LVR.      | LOUVER                               |
| LT.     | LIGHT                        | MAS.      | MASONRY                              |
| L.P.T.  | LOW POINT                    | MH.       | MANHOLE                              |
| MAX.    | MAXIMUM                      | MIN.      | MINIMUM                              |
| MET.    | METAL                        | M.O.      | MASONRY OPENING                      |
| MFR.    | MANUFACTURE(R)               | MOV.      | MOVABLE                              |
| MLD.    | MOULDING                     | MT.       | MOUNT(ED), (ING)                     |
| MMB.    | MEMBRANE                     | N.T.S.    | NOT TO SCALE                         |
| M.R.D.  | METAL ROOF DECKING           | N.I.C.    | NOT IN CONTRACT                      |
| MWK.    | MILLWORK                     | O.D.      | OUTSIDE DIAMETER                     |
| N.      | NORTH                        | OPNG.     | OPENING                              |
| NOM.    | NOMINAL                      | PVMT.     | PAVEMENT                             |
| OA      | OVERALL                      | PC.       | PRECAST                              |
| O.C.    | ON CENTER(S)                 | PL.       | PLATE, PROPERTY LINE                 |
| OPP.    | OPPOSITE                     | PTN       | PARTITION                            |
| P.BD.   | PARTICLE BOARD               | PVC       | POLYVINYL CHLORIDE                   |
| PKG.    | PARKING                      | PWD.      | PLYWOOD                              |
| PLAS.   | PLASTER                      | PT.       | POINT                                |
| PNL.    | PANEL                        | PTD.      | PAINTED                              |
| PREFAB. | PREFABRICATE(D)              | R.        | RADIUS, RISER(S)                     |
| Q.T.    | QUARRY TILE                  | R.O.      | ROUGH OPENING                        |
| R.A.    | RETURN AIR                   | R.D.      | ROOF DRAIN                           |
| RECEPT. | RECEPTACLE                   | REM.      | REMOVE                               |
| REF.    | REFERENCE, REFRIGERATOR      | RET.      | RETURN                               |
| REINF.  | REINFORCE(D), (ING)          | RFT.      | ROOFING                              |
| REV.    | REVISION(S), REVISED         | R.O.W.    | RIGHT OF WAY                         |
| S       | SOUTH                        | ST.       | STEEL                                |
| SF      | SQUARE FOOT, (FEET)          | S.C.      | SOLID CORE                           |
| SHT.    | SHEET                        | S.D.      | STORM DRAIN                          |
| SIM.    | SIMILAR                      | S.E.S.    | SERVICE ENTRANCE SECTION             |
| SLV.    | SHORT LEG VERTICAL           | SLMT.     | SEALANT                              |
| SPEC.   | SPECIFICATION(S)             | SO.       | SQUARE                               |
| SPL.    | SPECIAL                      | S.ST.     | STAINLESS STEEL                      |
| STD.    | STANDARD                     | SUS.      | SUSPENDED                            |
| STO.    | STORAGE                      | STR.      | STRUCTURAL                           |
| T.B.    | TOP OF BEAM, TOWEL BAR       | T&G       | TONGUE AND GROOVE                    |
| TEL.    | TELEPHONE                    | T.C.      | TERRA COTTA, TOP OF CURVE            |
| T.M.    | TOP OF MASONRY               | THK.      | THICK(NESS)                          |
| T.P.    | TOP OF PAVER                 | T.J.      | TOP OF JOIST                         |
| T.S.    | TOP OF PAVEMENT              | T.ST.     | TOP OF STEEL                         |
| TV      | TELEVISION                   | T.W.      | TOP OF WALL                          |
| TYP.    | TYPICAL                      | V.B.      | VAPOR BARRIER                        |
| UNF.    | UNFINISHED                   | VCT       | VINYL COMPOSITION TILE               |
| VERT.   | VERTICAL                     | WH        | WATER HEATER                         |
| V.W.C.  | VINYL WALL COVERING          | W/        | WITH                                 |
| W       | WEST, WIDTH, WIDE            | W.P.F.    | WATERPROOFING                        |
| W/O     | WITHOUT                      | W.W.F.    | WELDED WIRE FABRIC                   |
| W.C.    | WATER CLOSET                 | WD.       | WOOD                                 |



# SANTA CRUZ VALLEY UNIFIED SCHOOL DISTRICT

COATIMUNDI MIDDLE SCHOOL  
 FIRE ALARM REPLACEMENT  
 1374 W. FRONTAGE ROAD  
 RIO RICO, ARIZONA 85648

SFB #BRG-DSGN-00098

## CONSTRUCTION DOCUMENTS DECEMBER 4, 2020

### BID ALTERNATES

**BID ALTERNATE NO. 1: NEW TRENCHING AND CONDUITS**

BASE BID : THE BASE BID SHALL ASSUME THAT EXISTING CONDUITS BETWEEN BUILDING AREA ADEQUATELY SIZED AND ABLE TO BE REUSED FOR THE NEW WIRE PULLS

BID ALTERNATE : INCLUDE A CONTINGENCY TO PROVIDE NEW TRENCHING AND CONDUIT BETWEEN THE BUILDING AS SHOWN IN THE DRAWINGS IF IT IS DISCOVERED THAT THE EXISTING CONDUITS ARE NOT ADEQUATELY SIZED OR ARE NOT ABLE TO BE REUSED. COST TO INCLUDE RETURNING TRENCHED AREAS TO EXISTING CONDITION - IE: CONCRETE, ASPHALT, DG, OR LANDSCAPING REPLACEMENT.

### SHEET INDEX

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|                      | A0.2  | AERIAL SITE PLAN                         |
|                      | A0.3  | SITE PLAN                                |
| <b>ELECTRICAL</b>    | FE0.0 | FIRE ALARM REPLACEMENT PLAN              |
|                      | FE1.1 | FIRE ALARM REPLACEMENT OVERALL SITE PLAN |
|                      | FE2.1 | FIRE ALARM REPLACEMENT PLAN AREA A       |
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|                      | FE2.7 | FIRE ALARM REPLACEMENT PLAN AREA G       |

### CONSULTANTS

**ARCHITECT:** ADM GROUP, INC.  
 2100 W. 15TH STREET  
 TEMPE, ARIZONA 85281

**PHONE:** 480.285.3801

**CONSULTANTS:** **ELECTRICAL**  
 ENERGY SYSTEMS DESIGN INC.  
 7135 E. CAMELBACK RD. UNIT 275  
 SCOTTSDALE, ARIZONA 85251  
 480.481.4900

### PROJECT INFORMATION

**CLIENT:** SANTA CRUZ VALLEY UNIFIED SCHOOL DISTRICT

**PROJECT ADDRESS:** 1374 W. FRONTAGE ROAD  
 RIO RICO, ARIZONA 85648

**CONSTRUCTION TYPE:** EXISTING

**APN:** 124-03-122

**ZONING:** PF

**OCCUPANCY:** E OCCUPANCY

EDUCATIONAL GROUP E OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE

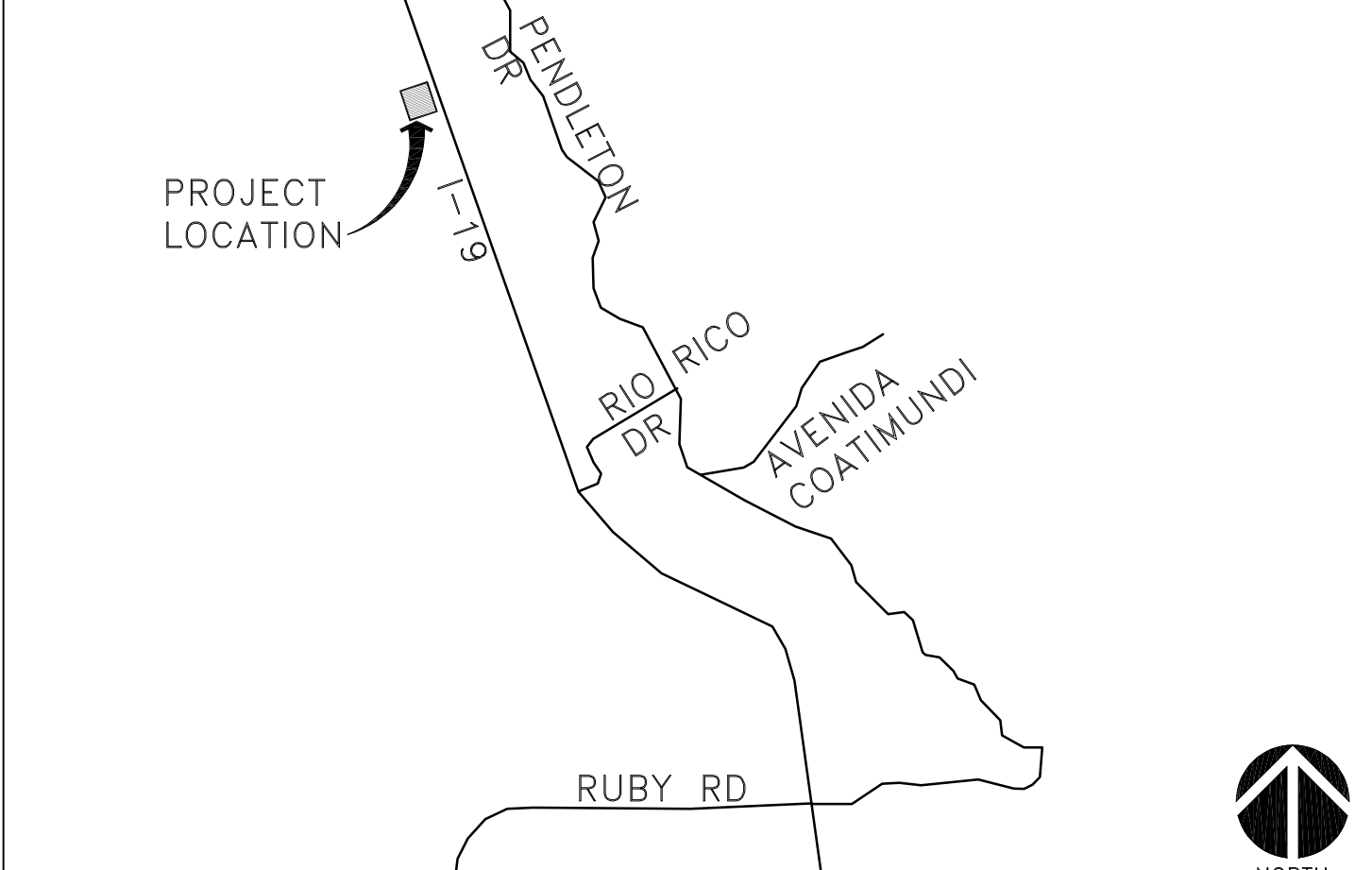
### PROJECT DESCRIPTION

REPLACEMENT OF THE CAMPUS FIRE ALARM.

### ARCHITECTURAL SYMBOLS LEGEND

|  |                   |  |                           |
|--|-------------------|--|---------------------------|
|  | BUILDING SECTION  |  | ELEVATION                 |
|  | DETAIL REFERENCE  |  | BREAK LINE                |
|  | SECTION/ELEVATION |  | DELTA AND REVISION CLOUD  |
|  | KEY NOTE          |  | FINISH TYPE/SKETCH REF. # |
|  | WALL TYPE TAG     |  | WINDOW TYPE               |
|  | ROOM NAME/NUMBER  |  | SLOPE INDICATOR           |
|  | DOOR NUMBER       |  | START POINT               |
|  | DIMENSIONAL ALIGN |  | NORTH ARROW               |
|  | POINT ELEVATION   |  |                           |

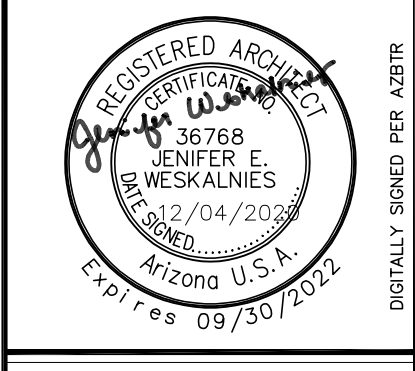
### VICINITY MAP



**architecture.**  
**design.**  
**management.**

**dnouib adm**

2100 WEST 15TH STREET | TEMPE, AZ 85281 | 480.285.3800



SANTA CRUZ VALLEY UNIFIED SCHOOL DISTRICT  
 1374 W. FRONTAGE ROAD  
 RIO RICO, ARIZONA 85648

COATIMUNDI MIDDLE SCHOOL FIRE ALARM REPLACEMENT



|                |            |
|----------------|------------|
| Date           |            |
| Revisions      |            |
| Project Number | 7054-109   |
| Date           | 12.04.2020 |
| Drawn By       | V/G        |
| Checked By     | JJU        |

COVER SHEET  
 A0.1

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# AERIAL SITE PLAN COATIMUNDI MIDDLE SCHOOL

SCALE: 1"=50'-0"

COATIMUNDI ES - EXIT PLAN.dwg



SANTA CRUZ VALLEY  
UNIFIED SCHOOL DISTRICT  
1374 W. FRONTAGE ROAD  
RIO RICO, ARIZONA 85648  
**COATIMUNDI MIDDLE SCHOOL FIRE  
ALARM REPLACEMENT**



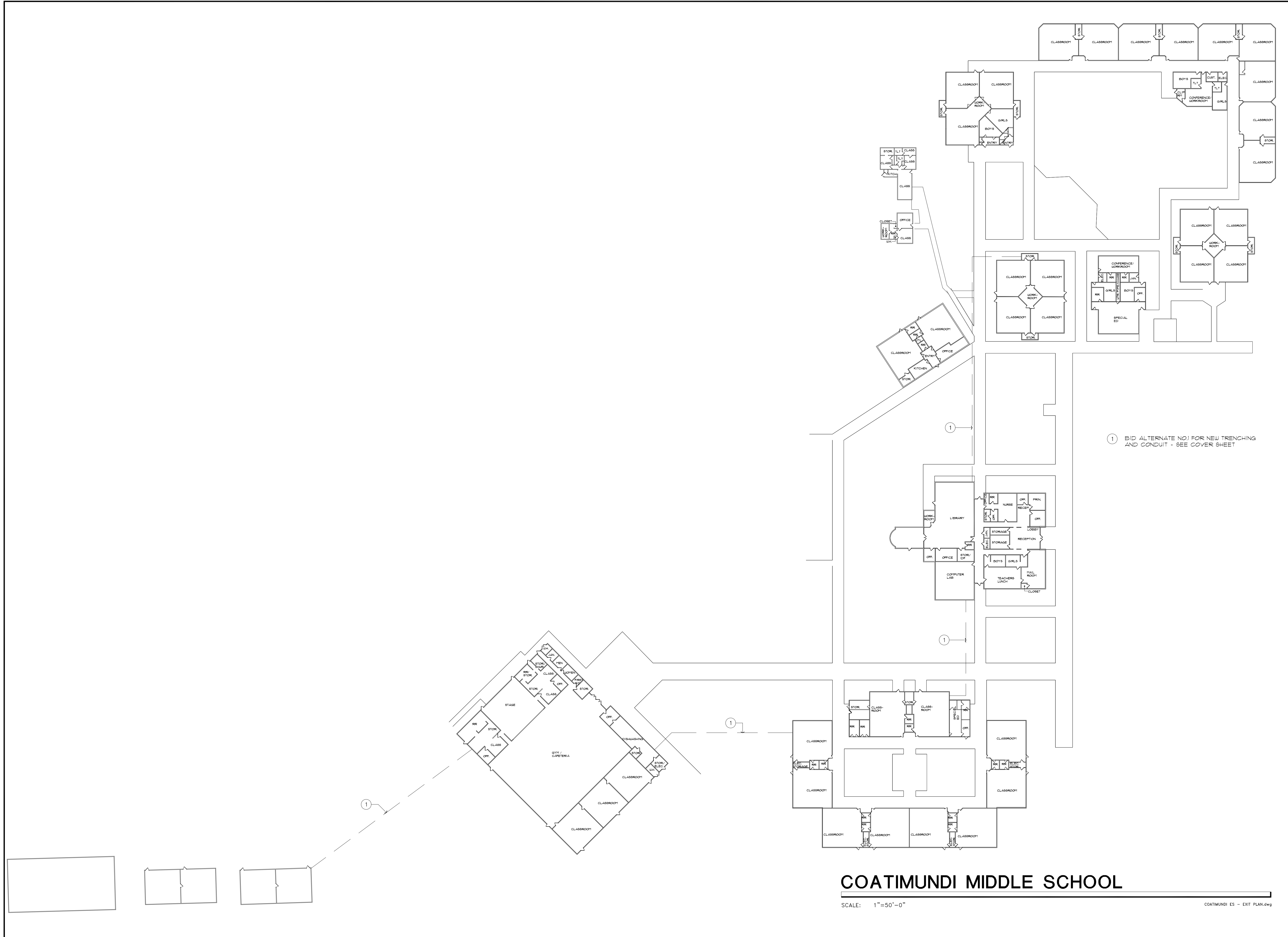
**adm** **group**  
**architecture.**  
**design.**  
**management.**  
2100 WEST 15TH STREET | TEMPE, AZ 85281 | 480.285.3800

| Revisions | Date |
|-----------|------|
|           |      |
|           |      |
|           |      |

|                            |                    |                 |                   |
|----------------------------|--------------------|-----------------|-------------------|
| Project Number<br>7054-109 | Date<br>12.04.2020 | Drawn By<br>V/G | Checked By<br>J/J |
|----------------------------|--------------------|-----------------|-------------------|

COATIMUNDI  
AERIAL SITE PLAN  
A0.2





# COATIMUNDI MIDDLE SCHOOL

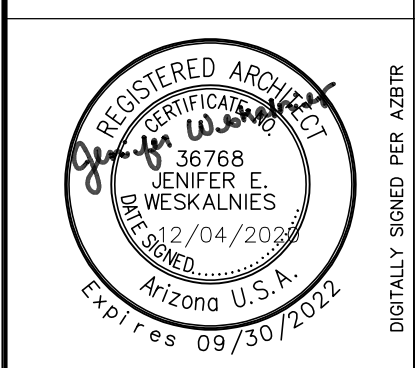
SCALE: 1"=50'-0"

COATIMUNDI ES - EXIT PLAN.dwg

**architecture.**  
**design.**  
**management.**

**adm**  
**group**

2100 WEST 15TH STREET | TEMPE, AZ 85281 | 480.285.3800



SANTA CRUZ VALLEY  
UNIFIED SCHOOL DISTRICT  
1374 W. FRONTAGE ROAD  
RIO RICO, ARIZONA 85648

COATIMUNDI MIDDLE SCHOOL FIRE  
ALARM REPLACEMENT

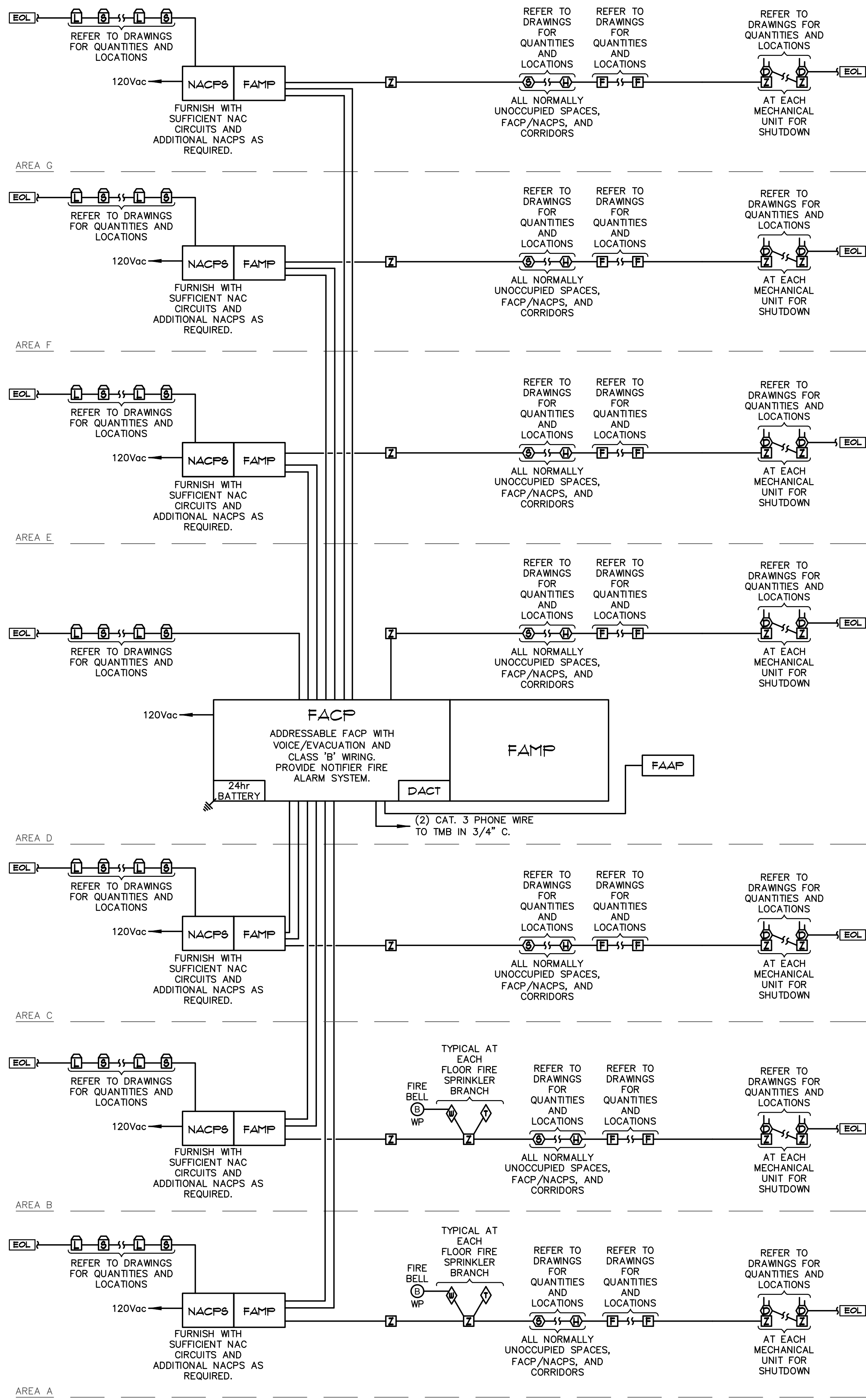


| Revisions | Date |
|-----------|------|
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|                            |                    |                 |                   |
|----------------------------|--------------------|-----------------|-------------------|
| Project Number<br>7054-109 | Date<br>12.04.2020 | Drawn By<br>S/P | Checked By<br>J/J |
|----------------------------|--------------------|-----------------|-------------------|

COATIMUNDI  
SITE PLAN  
A0.3

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**FIRE ALARM RISER DIAGRAM**

SCALE: NOT TO SCALE

**NOTES:**

1. CONTRACTOR SHALL PROVIDE ALL A COMPLETE VOICE/EVACUATION SYSTEM INCLUDING NECESSARY HARDWARE, PROGRAMMING, WIRING, BATTERIES, ETC., AS REQUIRED BY THESE DRAWINGS.

**FIRE ALARM SYSTEM PERFORMANCE NOTES**

1. FIRE ALARM SYSTEM SHALL BE DESIGNED AND PROVIDED PER LATEST ADOPTED EDITION OF ALL APPLICABLE CODES (IFC, IBC, IMC, NEC) IN EFFECT FOR THE CODE ENFORCEMENT DEPARTMENT HAVING JURISDICTION. IN ADDITION THE FIRE ALARM SYSTEM SHALL MEET THE OWNER AND ENGINEERS REQUIREMENTS THAT MAY REQUIRE A SYSTEM EXCEEDING CODE REQUIREMENTS. FIRE ALARM SYSTEM DEVICES SHALL BE INSTALLED PER NFPA 72 AND THEIR LISTING REQUIREMENTS. ALL SYSTEMS ARE TO BE ADA COMPLIANT. CONTRACT DOCUMENTS (INCLUDING ELECTRICAL/FIRE ALARM DRAWINGS AND SPECIFICATIONS) PROVIDE ENGINEER'S INTENT OF THE FIRE ALARM SYSTEM; HOWEVER FINAL QUANTITY AND TYPE OF DEVICES/INTERCONNECTIONS/CIRCUITRY/CONTROL RELAYS/ETC. SHALL BE DETERMINED BY THE FIRE ALARM SYSTEM DESIGNER AND INCLUDED IN BID PRICE.
2. 'CONTRACT DOCUMENTS' SHALL BE DEFINED FOR THESE NOTES TO INCLUDE ALL DISCIPLINES DRAWINGS, SPECIFICATIONS, ADDENDUMS, SUPPLEMENTAL INSTRUCTIONS AND THE GENERAL CONDITIONS. THE ARCHITECT/ENGINEER SHALL DETERMINE SUBSTANTIAL EQUIVALENCY OF SUBMISSIONS FOR PRIOR APPROVAL AND SUBSTITUTIONS. ALL AUTHORIZED FIRE ALARM CONTRACTORS SHALL ATTEND THE MANDATORY PRE-BID MEETING.
3. DEVICE LOCATIONS AND QUANTITIES SHOWN ON THE DRAWINGS SHOW MINIMUM REQUIRED, HOWEVER, THE BIDDING FIRE ALARM CONTRACTOR SHALL REVIEW AND ADD ADDITIONAL DEVICES TO MEET CODE (WITHOUT MOVING OR DELETING AUDIO/VISUAL DEVICES ALREADY SHOWN ON THE DRAWINGS). AUDIO/VISUAL DEVICES SHALL REMAIN WHERE SHOWN AND PREVIOUSLY COORDINATED WITH ARCHITECT/ENGINEER. WHEN ADDING DEVICES, THE FINAL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT FOR APPEARANCE IN THE SPACE. SOME INEFFICIENCIES MAY OCCUR ADDING DEVICES INSTEAD OF RE-ARRANGING DEVICES SHOWN ON THE DRAWINGS. ALSO PROVIDING DEVICES SHOWN ON THE DRAWINGS IN ADDITION TO ANY OTHER DEVICES OR SYSTEM COMPONENTS REQUIRED FOR A CODE COMPLIANT SYSTEM MAY EXCEED STANDARD CODE REQUIREMENTS. THE BIDDING CONTRACTOR SHALL ANTICIPATE THIS IN THE BID.
4. WHERE THE FIRE ALARM SYSTEM DESIGNER BELIEVES THE CONTRACT DOCUMENTS ARE IN CONFLICT WITH ADOPTED CODE, THE SYSTEM DESIGNER SHALL CONTACT THE ENGINEER FOR REVIEW OF THE APPLICATION PRIOR TO BID. IF ISSUE IS NOT RESOLVED BEFORE THE BID THEN THE CONTRACTOR SHALL INCLUDE IN THE BID TO PROVIDE A CODE REQUIRED SYSTEM IN ADDITION TO THE ENGINEER INTENDED SYSTEM. CREDIT SHALL BE ISSUED BACK TO THE JOB FOR EXTRA SYSTEM COMPONENTS NOT USED ONCE THE ISSUE IS RESOLVED.
5. A COMPLETE, CODE COMPLIANT, FIRE ALARM SYSTEM ALONG WITH ALL FIRE ALARM DEVICES SHALL BE PROVIDED BY THE FIRE ALARM SYSTEM CONTRACTOR. DEVICES SUPPLIED SHALL ALSO INCLUDE SMOKE DETECTORS FOR SMOKE FIRE DAMPERS WITH REQUIRED CIRCUITRY.
6. THE FIRE ALARM SYSTEM DESIGN DRAWINGS SHALL BE STAMPED BY AN INDEPENDENT, REGISTERED ENGINEER IN THE STATE OF ARIZONA WITH NOT LESS THAN 5 YEARS DEMONSTRATED COMMERCIAL FIRE ALARM SYSTEM EXPERIENCE (NOT ASSOCIATED WITH THE VENDOR OR DESIGN TEAM) OR A CERTIFIED PERSON HOLDING A CURRENT NICET LEVEL III OR IV DESIGNER IN FIRE ALARM SYSTEMS.
7. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SUBMIT CODE COMPLIANT FIRE ALARM SYSTEM SHOP DRAWINGS, EQUIPMENT CUT SHEETS, AND ALL OTHER NECESSARY INFORMATION TO AUTHORITIES HAVING JURISDICTION (AHJ) FOR REVIEW AS MAY BE REQUESTED OR OTHERWISE REQUIRED TO SECURE APPROVAL AND TO ARRANGE PERTINENT FIELD OBSERVATIONS DURING CONSTRUCTION. ALL SUBMITTALS AND APPROVALS SHALL BE PROVIDED IN A TIMELY MANNER AND AS REQUIRED TO MEET ALL PROJECT SCHEDULES. ARCHITECT/ENGINEER SHALL BE COPIED FOR REVIEW OF DEVICE LOCATIONS AND GENERAL SYSTEM CONFORMANCE WITH SPECIFICATIONS. A/E WILL NOT REVIEW SUBMITTALS FOR CODE COMPLIANCY AS THE DOCUMENTS SHALL BE SEALED OR CERTIFIED BY OTHERS.
8. FIRE ALARM CONTRACTOR SHALL INCLUDE IN BID PRICE ALL PLAN REVIEW FEES, PROGRAMMING OF NEW SYSTEM FOR ALL DEVICES SHOWN AND ANY OTHER FIRE ALARM SYSTEM WORK.
9. NO WORK SHALL COMMENCE ON THE SYSTEM OR MODIFICATIONS MADE UNTIL A SET OF PLANS APPROVED BY THE STATE OF ARIZONA FIRE MARSHALL. NO EXCEPTIONS.
10. FIRE ALARM CONTRACTOR TO VISIT SITE PRIOR TO SUBMITTING BID TO VERIFY EXISTING CONDITIONS AND DOCUMENT SYSTEM FUNCTION AND STATUS. CONTRACTOR TO MAKE ARRANGEMENTS WITH OWNER FOR PROPER DISCONNECT OF SYSTEMS AFFECTED BY CONSTRUCTION. FIRE ALARM CONTRACTOR SHALL NOT DISCONNECT ANY SYSTEM WITHOUT OWNER AND FIRE MARSHALL APPROVAL. ANY OFF NORMAL STATUS SHALL BE DOCUMENTED AND REPORTED TO THE OWNER, ARCHITECT & ENGINEER.
11. PROVIDE ALL NECESSARY HARDWARE AND SOFTWARE FOR A CODE COMPLIANT SYSTEM. AS A MINIMUM PROVIDE 24 HOUR BATTERY BACKUP WITH 5 MINUTES OF ALARM TIME ON SYSTEM.
12. THE FIRE ALARM SYSTEM REPLACEMENT AND INSTALLATION SHALL BE PROVIDED BY THE FIRE ALARM SYSTEM CONTRACTOR. THE CONTRACTORS BID PRICE SHALL INCLUDE ALL FEES, DEVICES, WIRE, CONDUIT, LABOR, MATERIAL AND EQUIPMENT TO PROVIDE THE INTENDED INSTALLATION AS INDICATED ON THE CONTRACT DRAWINGS AND THESE NOTES. CONTRACTOR SHALL BE LICENSED TO PERFORM THIS WORK.
13. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE SET OF INSTALLATION DRAWINGS TO THE ARCHITECT/ENGINEER. THESE DRAWINGS SHALL BE INCLUSIVE OF FLOOR PLANS, RISER DIAGRAMS, CIRCUIT AND BATTERY CALCULATIONS, DEVICE TERMINATIONS, ETC.
14. ALL FIRE ALARM DEVICES AND SYSTEM COMPONENTS SHALL BE NEW AND PROVIDED BY THE FIRE ALARM SYSTEM CONTRACTOR.
15. ALL FIRE ALARM SYSTEM DEVICES (SMOKE, HEAT DETECTORS, ETC.), SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE UL LISTING REQUIREMENTS OF THE DEVICES. DEVICES SHALL COMPLY WITH THE ABOVE MENTIONED CODES, STANDARDS/DEVICE LISTINGS INCLUDING UL AS APPLICABLE.
16. THE FIRE ALARM CONTRACTOR SHALL TEST ALL STROBES, SPEAKERS, AND WIRING THAT WILL BE AFFECTED BY THIS PROJECT PRIOR TO BEGINNING ANY WORK. ANY PROBLEMS SHALL BE MADE KNOWN TO THE OWNER. AFTER THIS PROJECT IS COMPLETE, THE FIRE ALARM CONTRACTOR SHALL TEST ALL NEW DEVICES, WIRING AND PROGRAMMING AFFECTED BY THIS PROJECT. AFTER ALL WIRING AND DEVICES HAVE BEEN VERIFIED TO BE CORRECT, THE FIRE ALARM CONTRACTOR SHALL COMPLETE AN 'INSPECTION AND TESTING' FORM FOR THE PROJECT. FORM SHALL BE AS SHOWN IN THE NATIONAL FIRE ALARM CODE IN ADDITION TO ANY FORMS REQUIRED BY THE STATE OF ARIZONA FIRE MARSHALL.
17. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE STATUS OF THE FACP EVERY DAY THAT WORK IS PERFORMED ON THE SYSTEM. ANY OFF NORMAL CONDITION SHALL BE REPORTED TO THE BUILDING ENGINEER/OWNER. ANY SYSTEM DISARRANGEMENT CAUSED BY WORK ON THIS PROJECT SHALL BE IMMEDIATELY CORRECTED.
18. WHERE DUCT SMOKE DETECTORS ARE INDICATED, THE DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE FIRE ALARM CONTRACTOR.
19. THE FIRE ALARM CONTRACTOR SHALL PROVIDE COMPLETE RECORD DRAWINGS OF THE NEW AND EXISTING FIRE ALARM INSTALLATION WITHIN THE AREA SHOWN AS THE SCOPE OF WORK. THE RECORD DRAWINGS SHALL REFLECT ALL DEVICE LOCATIONS, WIRE/CONDUIT RUNS AS WELL AS ANY MODIFICATIONS MADE TO THE FIRE ALARM PANEL OR ANNUNCIATOR. THESE PLANS SHALL BECOME A PART OF THE OWNERS 'AS-BUILT' PLAN SET. RECORD DRAWINGS AND CLOSE OUT PACKAGE SHALL MEET OR EXCEED AAFAA RECOMMENDATIONS.
20. PER NEC 760.41 (A) AND (B) ALL BRANCH CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL HAVE A LOCK-ON DEVICE AND RED IDENTIFICATION THAT DOES NOT DAMAGE OR OBSCURE THE MANUFACTURER'S MARKING.
21. PROVIDE REQUIRED WIRING INSTALLED IN MINIMUM 3/4" EMT AND RED COLORED CONDUIT.

**SCOPE OF WORK**

1. THIS PROJECT CONSISTS OF THE REMOVAL OF THE EXISTING FIRE ALARM SYSTEM AND REPLACEMENT OF A NEW ADDRESSABLE CLASS 'B' SYSTEM WITH VOICE/EVACUATION.
2. COMPLETELY REMOVE ALL EXISTING HEADEND EQUIPMENT, DEVICES, AND CABLING.
3. PROVIDE A COMPLETE NEW SYSTEM INCLUDING HEADEND EQUIPMENT, DEVICES, AND CABLING.
4. REUSE OF EXISTING RACEWAYS WILL BE PERMITTED. PROVIDE REQUIRED RACEWAYS WITHIN BUILDINGS AND INTERCONNECTING RACEWAYS IF REQUIRED.
5. REUSE OF EXISTING WALL LOCATION WILL BE PERMITTED.

**GENERAL NOTES**

1. ALL ELECTRICAL CONDUIT, DEVICES AND EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. DO NOT SCALE. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION WITH ARCHITECT/OWNER PRIOR TO ANY ROUGH IN.
2. DRAWINGS SHOW EXISTING CONDITIONS OF THE SITE. AN ATTEMPT HAS BEEN MADE TO SHOW EXISTING BUILDINGS, DETAILS, ETC., BUT ACCURACY CANNOT BE GUARANTEED. VERIFY EXACT LOCATIONS OF ALL CIRCUITS, CONDUIT, EQUIPMENT, ETC. VERIFY ALL BUILDING DETAILS.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE DRAWINGS AND EXISTING PREMISES PRIOR TO BIDDING. NO SUBSEQUENT ALLOWANCES WILL BE MADE FOR NOT BEING KNOWLEDGEABLE OF EXISTING CONDITIONS.
4. CONTRACTOR SHALL NOT INTERRUPT OR REMOVE ANY EXISTING CIRCUITS OR EQUIPMENT UNLESS NOTED OTHERWISE ON PLANS. ANY DAMAGED OR DISRUPTED CIRCUITS OR EQUIPMENT SHALL BE RESTORED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER.
5. ELECTRICAL CONTRACTOR SHALL REPAIR AND/OR PATCH AND PAINT TO MATCH ALL AREAS DAMAGED DURING INSTALLATION OF ANY ELECTRICAL EQUIPMENT IN THIS CONTRACT.
6. PLAN AND INSTALL WORK IN SUCH A MANNER AS TO PREVENT OBSTRUCTIONS, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. CONSULT GENERAL CONTRACT DRAWINGS FOR CONDITIONS AFFECTING THIS WORK AND VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. NOTIFY ENGINEER IMMEDIATELY OF POSSIBLE CONFLICTS. WHERE INTERFERENCES WITH STRUCTURAL, MECHANICAL OR OTHER FEATURES EXIST, OR WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS AND ARRANGEMENT OF INDICATED EQUIPMENT, CONDUIT, OUTLETS OR WIRING, CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT EXTRA COST TO OWNER, ARCHITECT OR ENGINEER.
7. ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION, THE PRODUCT OF SUBSTANTIALLY ESTABLISHED AND RECOGNIZED MANUFACTURERS. REFER TO BOOK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8. ALL POWER CIRCUITS SHALL BE MINIMUM: #12 THHN/THWN COPPER W/#12 COPPER BOND IN 3/4" CONDUIT UNLESS NOTED OTHERWISE. ALL CONDUCTORS, REGARDLESS OF SIZE SHALL BE 90°C RATED, THHN OR XHHW. ALL WIRING SHALL BE IN CONDUIT WITH N.E.C. SIZED BONDING CONDUCTORS UNLESS NOTED OTHERWISE.
9. FURNISH AND INSTALL ALL ELECTRICAL WIRING, RACEWAYS, JUNCTION BOXES, AND CONTROLS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS, UNLESS NOTED OTHERWISE. VERIFY EQUIPMENT REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO BID.
10. AS A MINIMUM REQUIREMENT ALL WORK SHALL COMPLY WITH THE LATEST ACTIVE OR ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE, STATE OR LOCAL ELECTRICAL CODES, AND THE REQUIREMENTS OF THE POWER COMPANY. WHERE CONFLICTS OCCUR THE MORE STRINGENT OR THE CODE ENFORCED BY THE AUTHORITY HAVING JURISDICTION SHALL APPLY.
11. ALL PENETRATIONS OF FIRE-RESISTIVE SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS." THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE UL TO THE ARCHITECT. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION, WITH ALL VARIABLES DEFINED.
12. CONTRACTOR SHALL FIELD VERIFY SOURCE OF ALL FIRE ALARM POWER CIRCUITS, BY PANEL AND POLE NUMBERS, WHETHER EXISTING OR NEW. FOR ENTIRE CONTRACT AREA. PRIOR TO CONSTRUCTION CLOSE OUT. THE CONTRACTOR SHALL PROVIDE NEW, TYPED, PANELBOARD DIRECTORIES FOR ALL NEW AND/OR EXISTING PANELS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORIES SHALL INDICATE THE LOAD TYPE AND AREA SERVED. PROVIDE ALL FIELD VERIFICATION WORK AS NECESSARY.
13. NEW CONDUIT OR EXISTING CONDUIT WHICH MUST BE MODIFIED, WITHIN THE SCOPE OF THIS PROJECT SHALL NOT BE ATTACHED TO NOR SUPPORTED BY ANY WIRE OR CABLE WHICH IS USED TO SUSPEND THE CEILING GRID. NEW CONDUIT SUPPORTS OR SUPPORT WIRES AND APPROVED SUPPORTING DEVICES SHALL BE PROVIDED AS NECESSARY.
14. TYPE MC (METAL-CLAD) POWER CABLE MAY BE USED ON THIS PROJECT SUBJECT TO THE FOLLOWING:
  - A. THE LOCAL AUTHORITIES HAVING JURISDICTION ALLOW THE USE OF MC CABLE.
  - B. THE CABLE MANUFACTURE & INSTALLATION IS IN ACCORDANCE WITH ALL N.E.C. & LOCAL CODE REQUIREMENTS.
  - C. THE MC CABLE CONDUCTOR SIZE, INSULATION (MINIMUM #12 AWG, THHN/THWN) AND CONFIGURATION IS AS REQUIRED FOR USE ON THIS PROJECT AND AN N.E.C. SIZED, GREEN GROUNDING CONDUCTOR (MINIMUM #12 AWG, THHN/THWN) IS INCLUDED IN ALL CABLE ASSEMBLIES.
  - D. AS-BUILT AND RECORD DRAWINGS SHALL REFLECT THE USE AND ROUTING LOCATIONS OF THE MC CABLE RUNS.

**FIRE ALARM SYMBOLS**

- [H] HORN ONLY
- [F] MANUAL PULL STATION
- [S] SMOKE DETECTOR (ADD TYPE)
- [H] HEAT DETECTOR (SHOW TEMP RATING)
- [D] DUCT SMOKE DETECTOR
- [S] SPEAKER STROBE (SHOW CANDELA)
- [L] STROBE ONLY (SHOW CANDELA)
- [DACT] DIGITAL ALARM COMMUNICATING TRANSMITTER
- [FAAP] FIRE ALARM ANNUNCIATOR
- [FACP] FIRE ALARM CONTROL PANEL
- [NACPS] NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY
- [FAMP] FIRE ALARM AUDIO AMPLIFIER
- [S] FIRE SPRINKLER TAMPER / OSY / PIV VALVE SUPERVISORY SWITCH
- [W] WATERFLOW DEVICE
- [K] INTERFACE TO KITCHEN HOOD
- [EOL] END OF LINE RESISTOR
- VG VANDAL GUARD
- C CEILING MOUNTED FIRE ALARM DEVICE
- WP WEATHERPROOF
- XR INDICATES EXISTING EQUIPMENT/DEVICE TO BE REMOVED
- RI REMOTE INDICATOR

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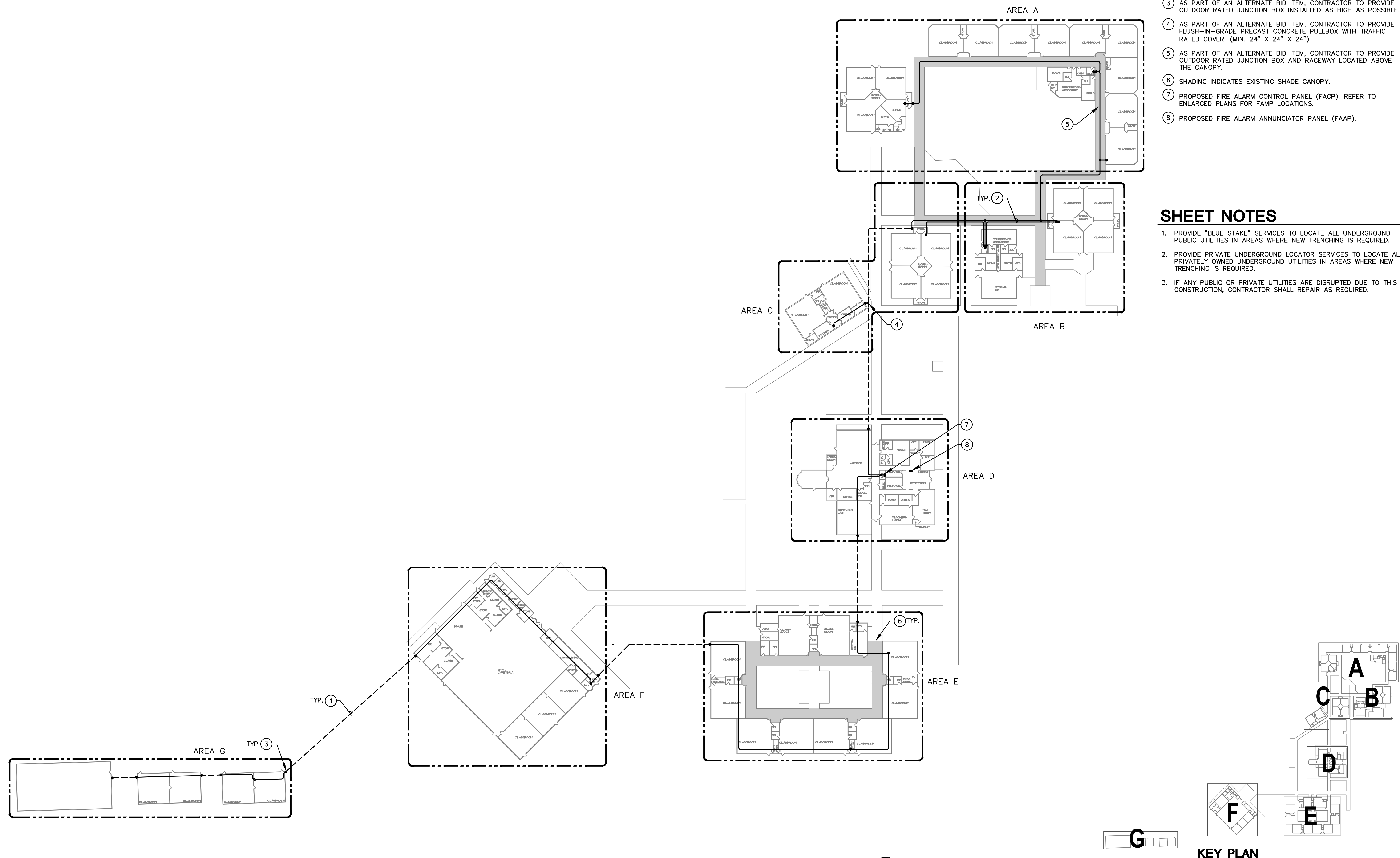
**ENERGY SYSTEMS DESIGN**  
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Project # 201101  
Design Contact: DICK SANTISTEVAN

**SANTA CRUZ VALLEY UNIFIED DISTRICT**  
1412 W FRONTAGE RD  
RIO RICO, AZ 85648  
**COATIMUNDI MIDDLE SCHOOL FIRE ALARM REPLACEMENT**

| Project Number | Date       | Drawn By | Checked By |
|----------------|------------|----------|------------|
| 201101         | 12.03.2010 | DW       | HAL        |

FIRE ALARM REPLACEMENT PLAN  
**FE0.0**





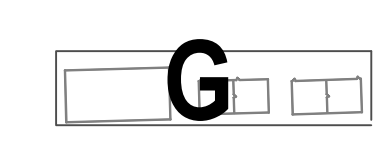
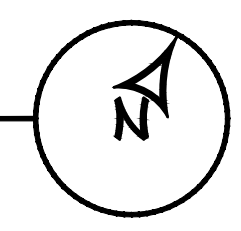
**KEYNOTES**

- 1 AS PART OF AN ALTERNATE BID ITEM, CONTRACTOR TO PROVIDE MINIMUM 2" UNDERGROUND CONDUIT WITH REQUIRED CABLING BETWEEN BUILDINGS.
- 2 AS PART OF AN ALTERNATE BID ITEM, CONTRACTOR TO PROVIDE MINIMUM OF 2" OVERHEAD CONDUITS WITH REQUIRED CABLING INSTALLED ABOVE THE CANOPY.
- 3 AS PART OF AN ALTERNATE BID ITEM, CONTRACTOR TO PROVIDE OUTDOOR RATED JUNCTION BOX INSTALLED AS HIGH AS POSSIBLE.
- 4 AS PART OF AN ALTERNATE BID ITEM, CONTRACTOR TO PROVIDE FLUSH-IN-GRADE PRECAST CONCRETE PULLBOX WITH TRAFFIC RATED COVER. (MIN. 24" X 24" X 24")
- 5 AS PART OF AN ALTERNATE BID ITEM, CONTRACTOR TO PROVIDE OUTDOOR RATED JUNCTION BOX AND RACEWAY LOCATED ABOVE THE CANOPY.
- 6 SHADING INDICATES EXISTING SHADE CANOPY.
- 7 PROPOSED FIRE ALARM CONTROL PANEL (FACP). REFER TO ENLARGED PLANS FOR FACP LOCATIONS.
- 8 PROPOSED FIRE ALARM ANNUNCIATOR PANEL (FAAP).

**SHEET NOTES**

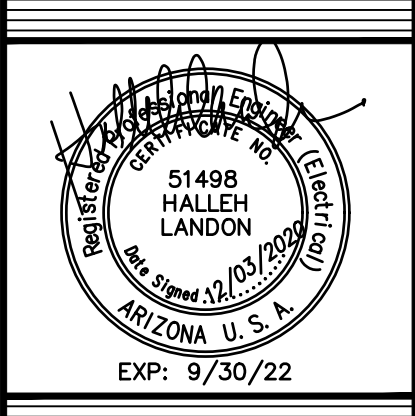
1. PROVIDE "BLUE STAKE" SERVICES TO LOCATE ALL UNDERGROUND PUBLIC UTILITIES IN AREAS WHERE NEW TRENCHING IS REQUIRED.
2. PROVIDE PRIVATE UNDERGROUND LOCATOR SERVICES TO LOCATE ALL PRIVATELY OWNED UNDERGROUND UTILITIES IN AREAS WHERE NEW TRENCHING IS REQUIRED.
3. IF ANY PUBLIC OR PRIVATE UTILITIES ARE DISRUPTED DUE TO THIS CONSTRUCTION, CONTRACTOR SHALL REPAIR AS REQUIRED.

**FIRE ALARM REPLACEMENT - OVERALL SITE PLAN**  
 SCALE: 1"=50'-0"



**KEY PLAN**  
 NOT TO SCALE

**adm group**  
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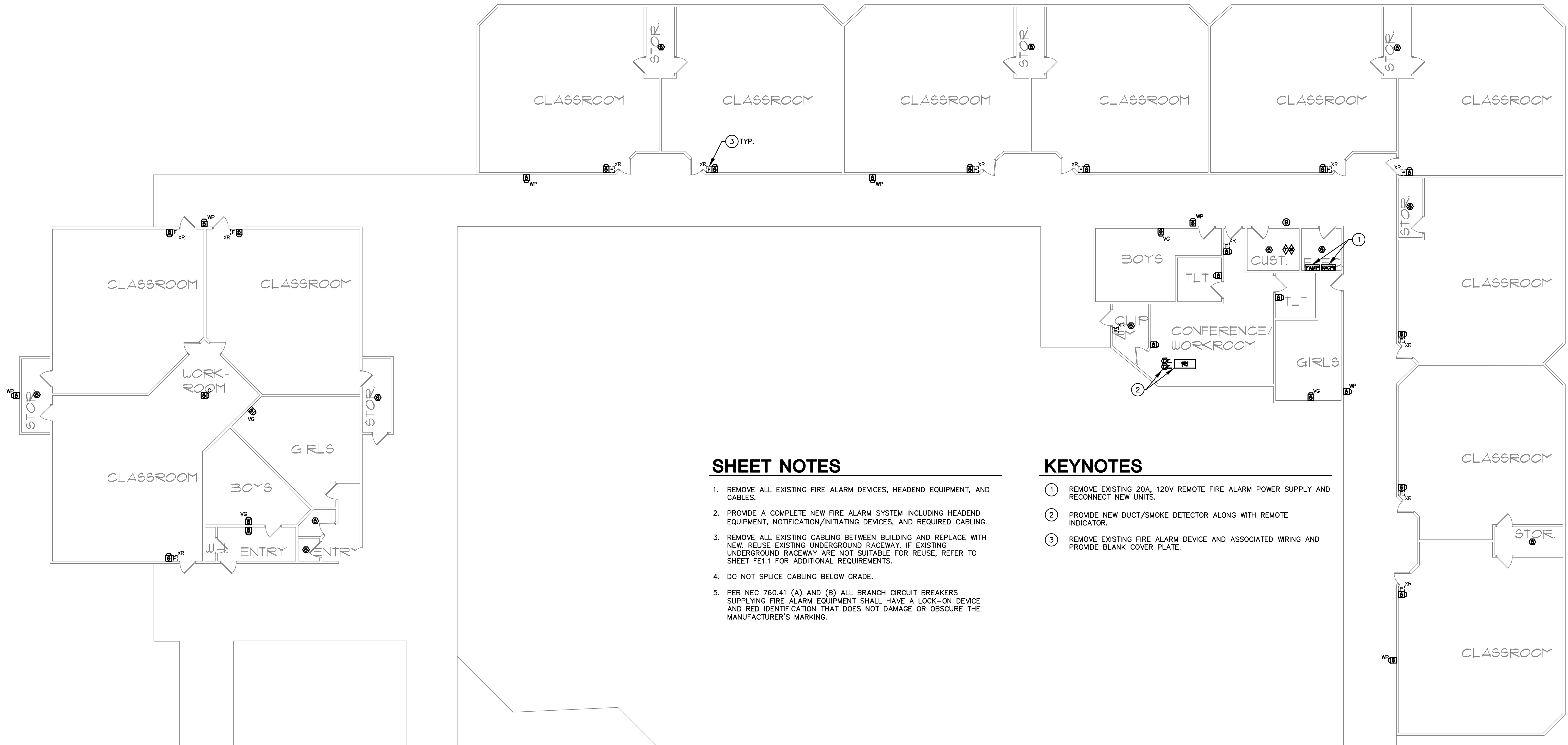
**ENERGY SYSTEMS DESIGN**  
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 7135 East Camelback Road  
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 Design Contact: DICK SANTISTEVAN  
 Project #: 201101

**SANTA CRUZ VALLEY UNIFIED DISTRICT**  
 1412 W FRONTAGE RD  
 RIO RICO, AZ 85648  
**COATIMUNDI MIDDLE SCHOOL FIRE ALARM REPLACEMENT**

| Revisions | Date |
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| Project Number<br>201101 | Date<br>12.03.2020 | Drawn By<br>DW | Checked By<br>HAL |
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FIRE ALARM REPLACEMENT OVERALL SITE PLAN  
**FE1.1**



**SHEET NOTES**

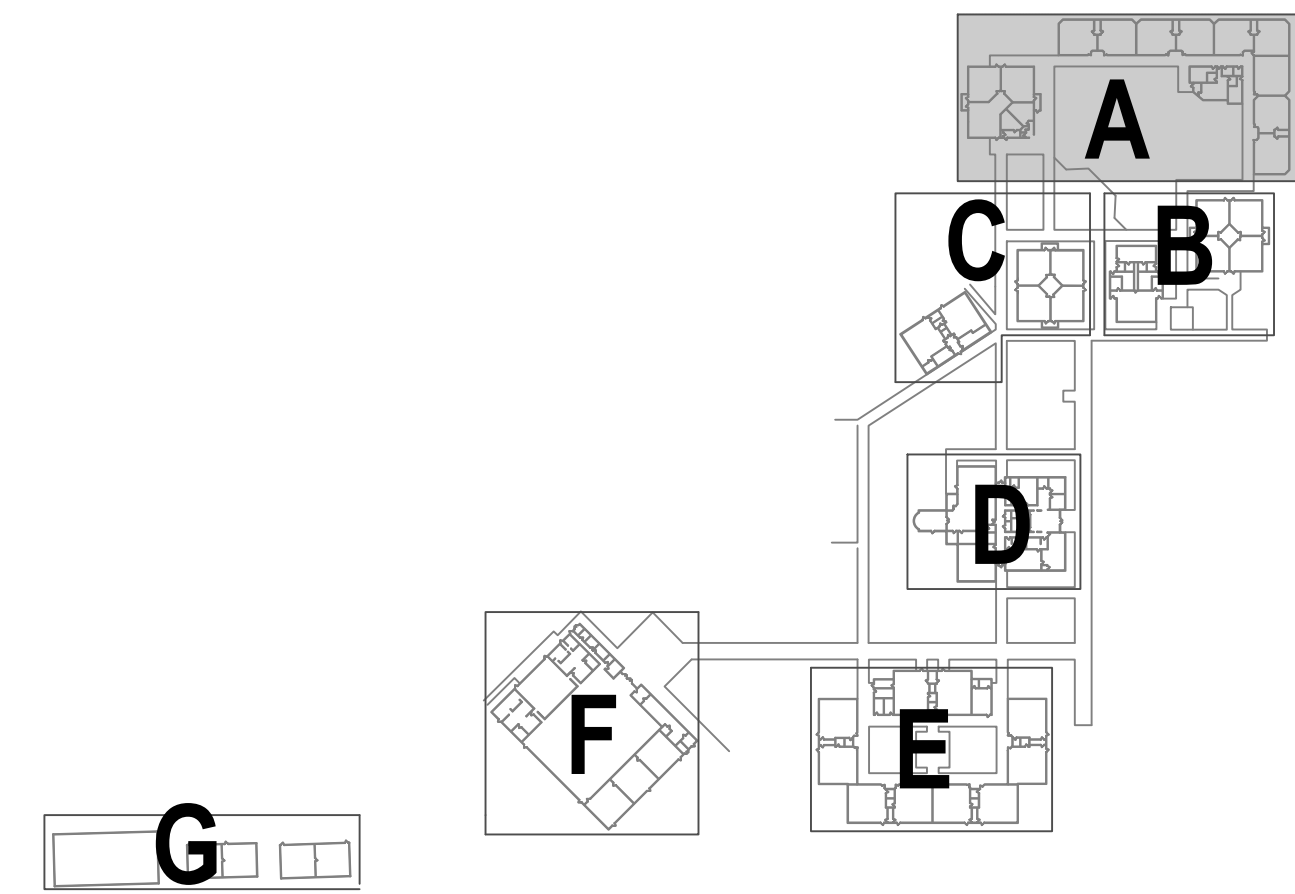
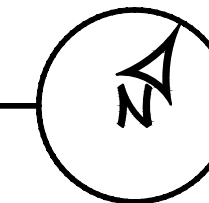
1. REMOVE ALL EXISTING FIRE ALARM DEVICES, HEADEND EQUIPMENT, AND CABLES.
2. PROVIDE A COMPLETE NEW FIRE ALARM SYSTEM INCLUDING HEADEND EQUIPMENT, NOTIFICATION/INITIATING DEVICES, AND REQUIRED CABLING.
3. REMOVE ALL EXISTING CABLING BETWEEN BUILDING AND REPLACE WITH NEW. REUSE EXISTING UNDERGROUND RACEWAY. IF EXISTING UNDERGROUND RACEWAY ARE NOT SUITABLE FOR REUSE, REFER TO SHEET FE1.1 FOR ADDITIONAL REQUIREMENTS.
4. DO NOT SPLICE CABLING BELOW GRADE.
5. PER NEC 760.41 (A) AND (B) ALL BRANCH CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL HAVE A LOCK-ON DEVICE AND RED IDENTIFICATION THAT DOES NOT DAMAGE OR OBSCURE THE MANUFACTURER'S MARKING.

**KEYNOTES**

- ① REMOVE EXISTING 20A, 120V REMOTE FIRE ALARM POWER SUPPLY AND RECONNECT NEW UNITS.
- ② PROVIDE NEW DUCT/SMOKE DETECTOR ALONG WITH REMOTE INDICATOR.
- ③ REMOVE EXISTING FIRE ALARM DEVICE AND ASSOCIATED WIRING AND PROVIDE BLANK COVER PLATE.

**FIRE ALARM REPLACEMENT PLAN - AREA A**

SCALE: 3/32"=1'-0"



**KEY PLAN**  
NOT TO SCALE



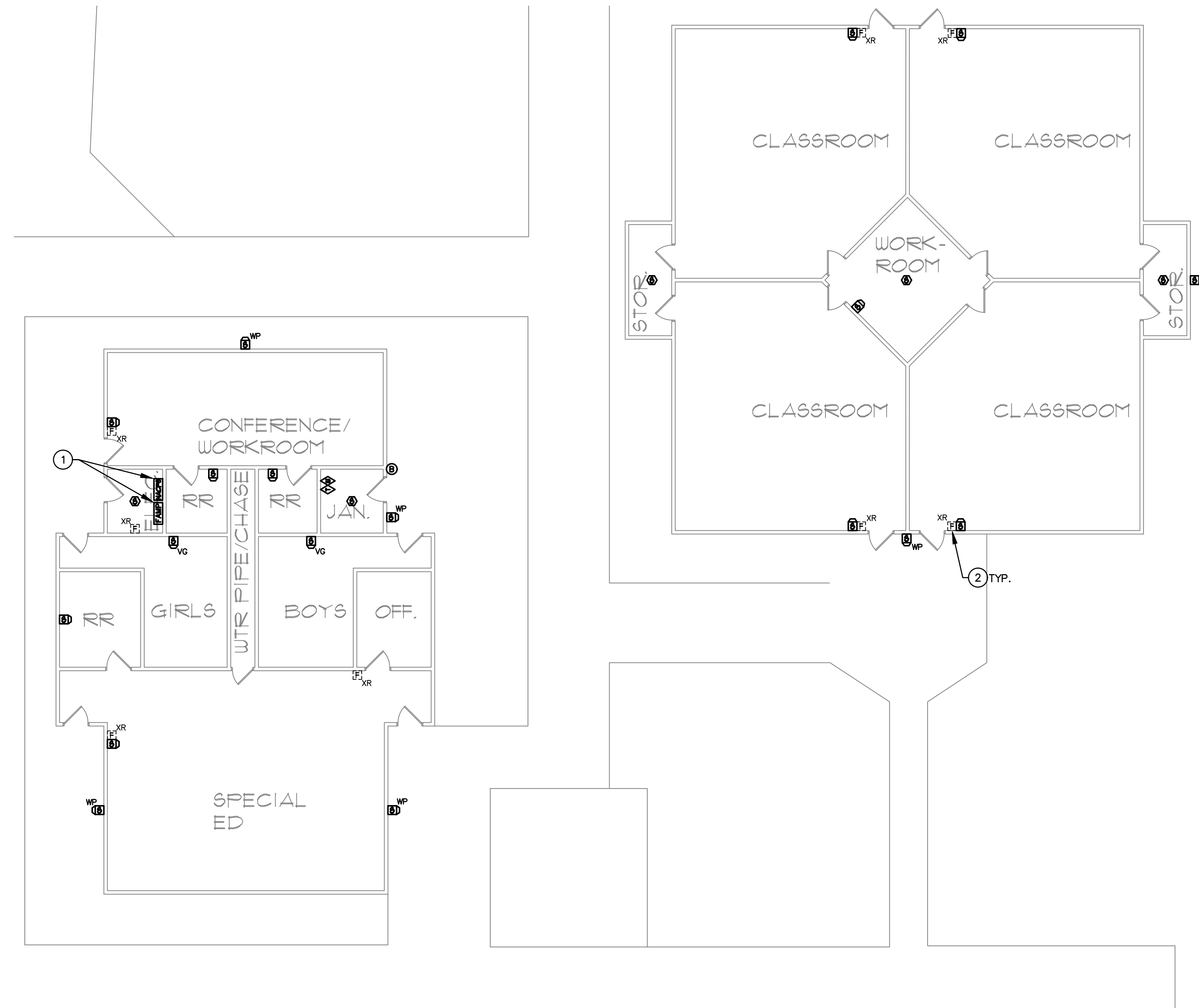
**ENERGY SYSTEMS DESIGN**  
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Project # 201101  
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**SANTA CRUZ VALLEY  
UNIFIED DISTRICT**  
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RIO RICO, AZ 85648  
**COATIMUNDI MIDDLE SCHOOL  
FIRE ALARM REPLACEMENT**

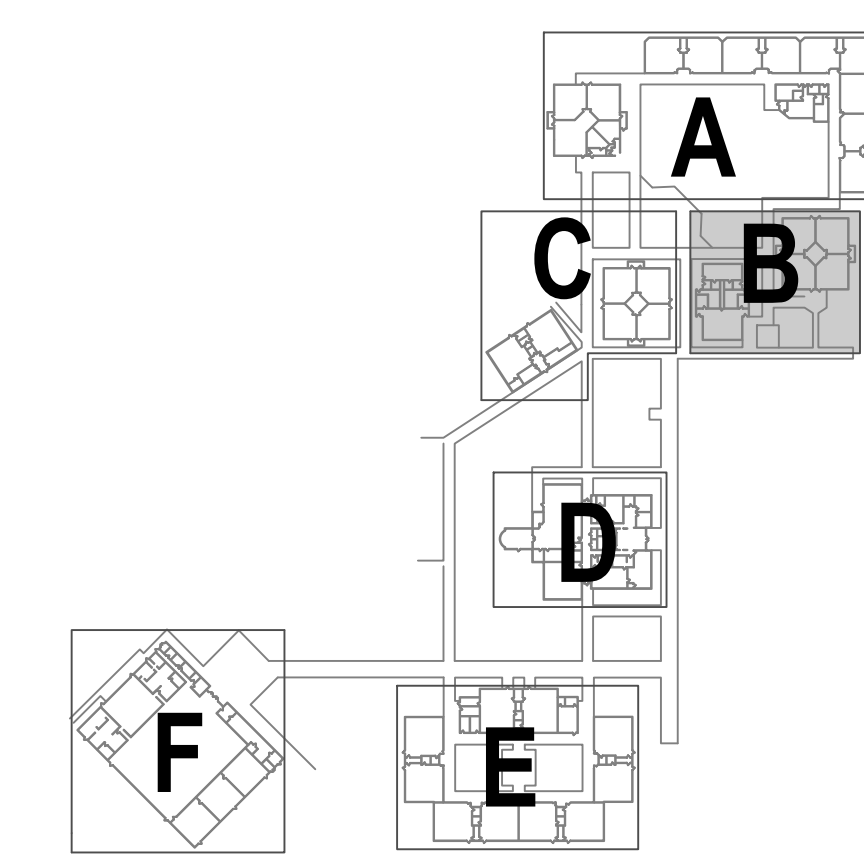
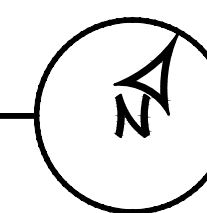
| Project Number | Date       | Drawn By | Checked By |
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| 201101         | 12.03.2020 | DW       | HAL        |

FIRE ALARM  
REPLACEMENT PLAN  
AREA A  
**FE2.1**





**FIRE ALARM REPLACEMENT PLAN - AREA B**  
SCALE: 3/32"=1'-0"



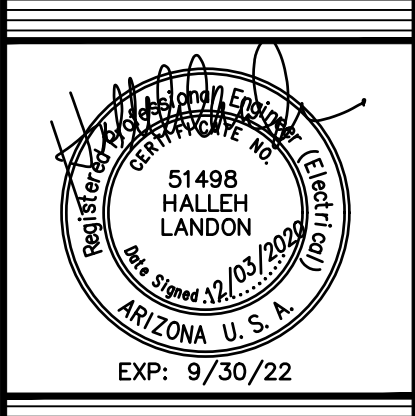
**KEY PLAN**  
NOT TO SCALE

**KEYNOTES**

- ① REMOVE EXISTING 20A, 120V REMOTE FIRE ALARM POWER SUPPLY AND RECONNECT NEW UNITS.
- ② REMOVE EXISTING FIRE ALARM DEVICE AND ASSOCIATED WIRING AND PROVIDE BLANK COVER PLATE.

**SHEET NOTES**

- 1. REMOVE ALL EXISTING FIRE ALARM DEVICES, HEADEND EQUIPMENT, AND CABLES.
- 2. PROVIDE A COMPLETE NEW FIRE ALARM SYSTEM INCLUDING HEADEND EQUIPMENT, NOTIFICATION/INITIATING DEVICES, AND REQUIRED CABLING.
- 3. REMOVE ALL EXISTING CABLING BETWEEN BUILDING AND REPLACE WITH NEW. REUSE EXISTING UNDERGROUND RACEWAY. IF EXISTING UNDERGROUND RACEWAY ARE NOT SUITABLE FOR REUSE, REFER TO SHEET FE1.1 FOR ADDITIONAL REQUIREMENTS.
- 4. DO NOT SPLICE CABLING BELOW GRADE.
- 5. PER NEC 760.41 (A) AND (B) ALL BRANCH CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL HAVE A LOCK-ON DEVICE AND RED IDENTIFICATION THAT DOES NOT DAMAGE OR OBSCURE THE MANUFACTURER'S MARKING.



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Project # 201101

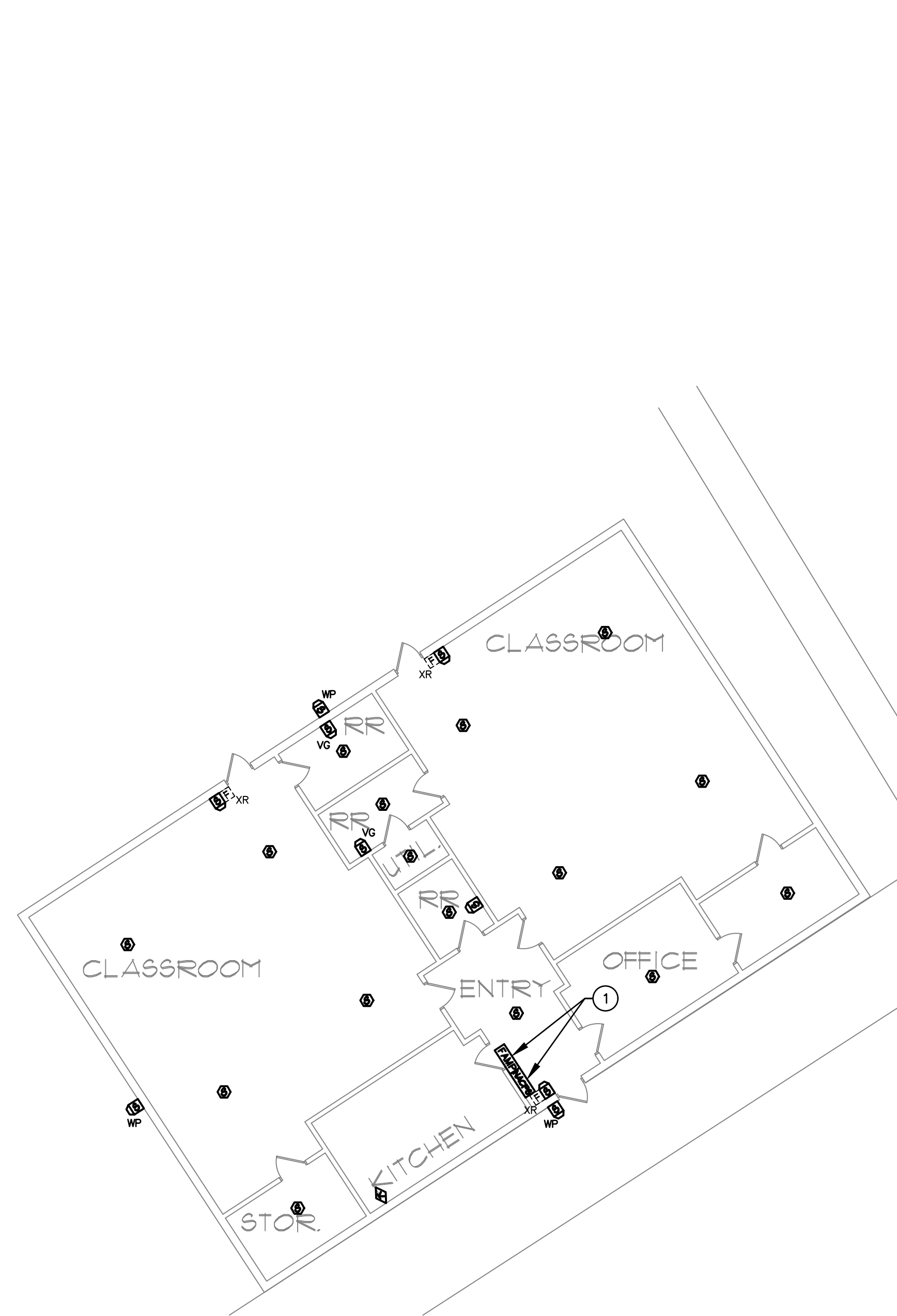
**SANTA CRUZ VALLEY  
UNIFIED DISTRICT**  
1412 W FRONTAGE RD  
RIO RICO, AZ 85648

**COATIMUNDI MIDDLE SCHOOL  
FIRE ALARM REPLACEMENT**

| Revisions | Date |
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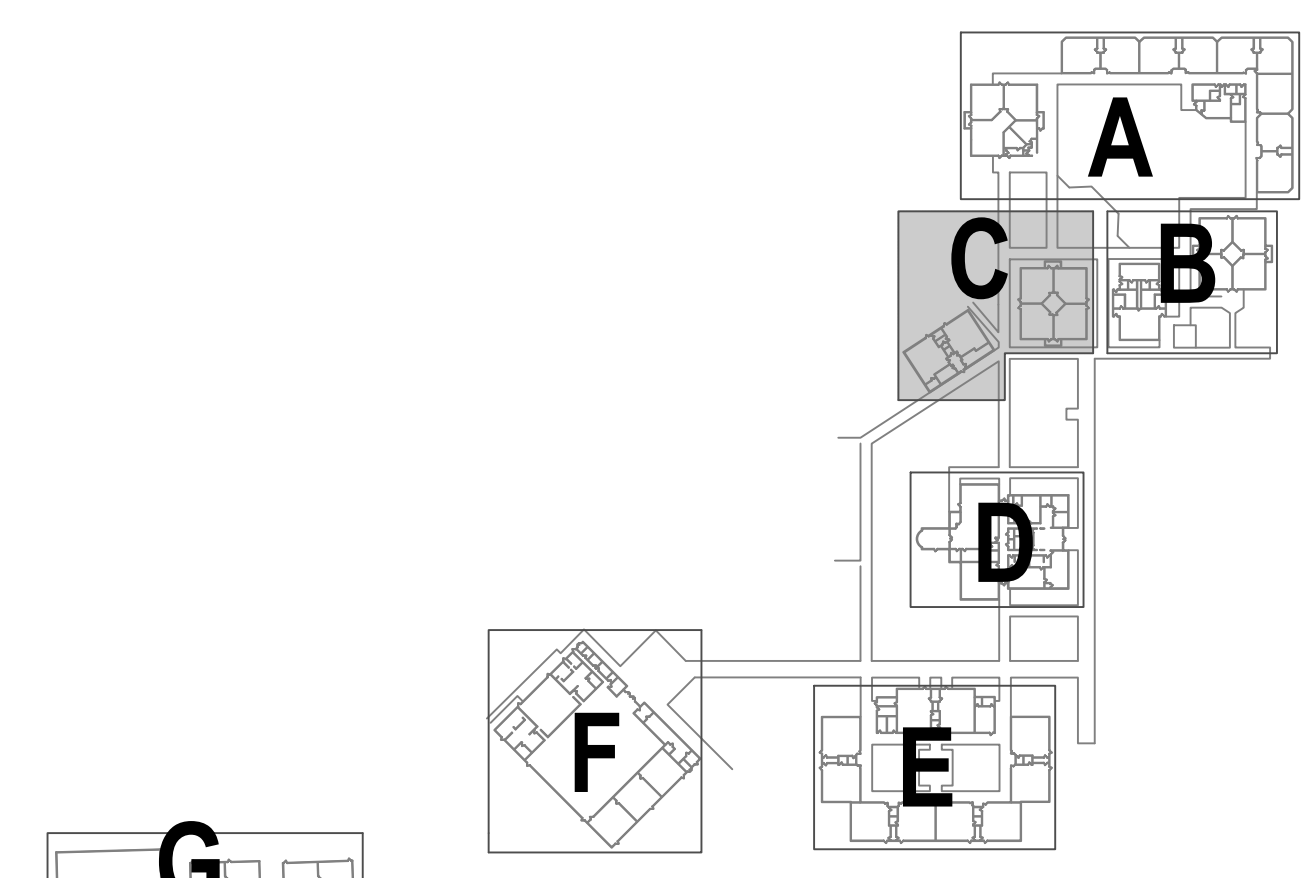
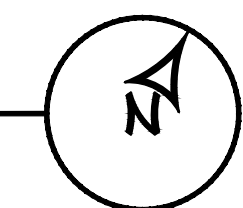
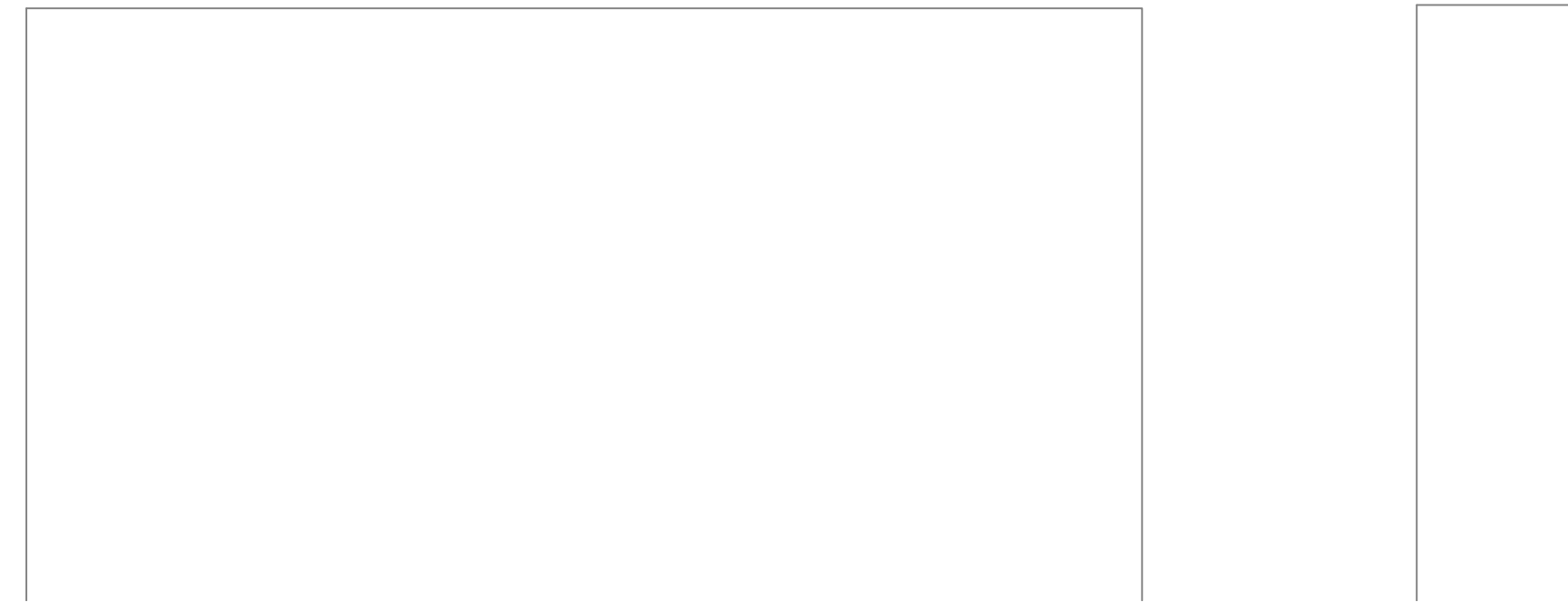
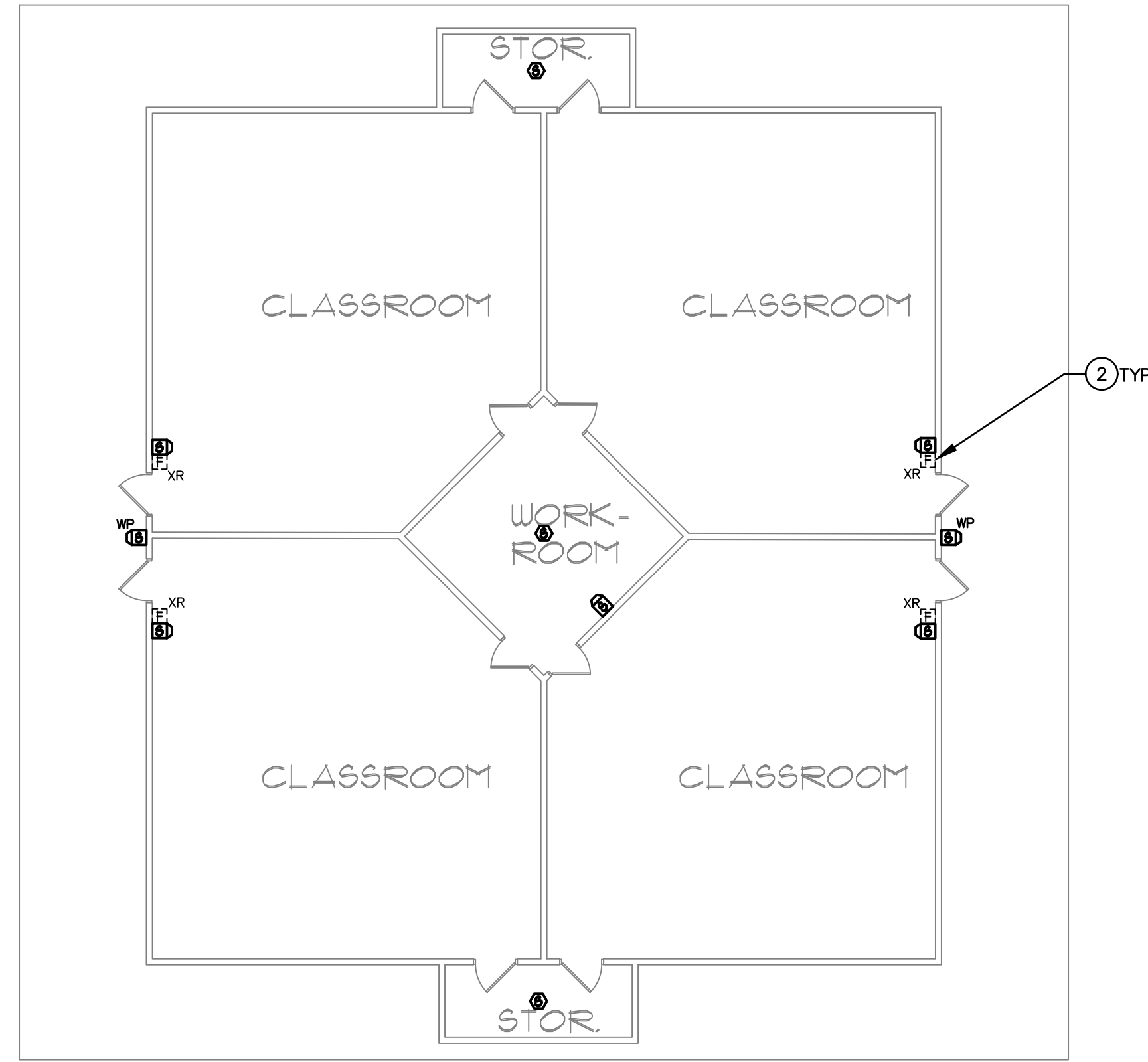
  

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| Project Number | 201101     |
| Date           | 12.03.2020 |
| Drawn By       | DW         |
| Checked By     | HAL        |



**FIRE ALARM REPLACEMENT PLAN - AREA C**

SCALE: 3/32"=1'-0"



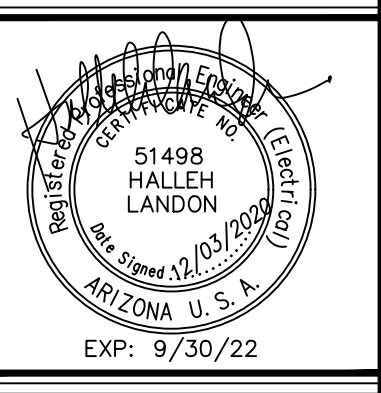
**KEY PLAN**  
NOT TO SCALE

**KEYNOTES**

- ① REMOVE EXISTING 20A, 120V REMOTE FIRE ALARM POWER SUPPLY AND RECONNECT NEW UNITS.
- ② REMOVE EXISTING FIRE ALARM DEVICE AND ASSOCIATED WIRING AND PROVIDE BLANK COVER PLATE.

**SHEET NOTES**

1. REMOVE ALL EXISTING FIRE ALARM DEVICES, HEADEND EQUIPMENT, AND CABLES.
2. PROVIDE A COMPLETE NEW FIRE ALARM SYSTEM INCLUDING HEADEND EQUIPMENT, NOTIFICATION/INITIATING DEVICES, AND REQUIRED CABLING.
3. REMOVE ALL EXISTING CABLING BETWEEN BUILDING AND REPLACE WITH NEW. REUSE EXISTING UNDERGROUND RACEWAY. IF EXISTING UNDERGROUND RACEWAY ARE NOT SUITABLE FOR REUSE, REFER TO SHEET FE1.1 FOR ADDITIONAL REQUIREMENTS.
4. DO NOT SPLICE CABLING BELOW GRADE.
5. PER NEC 760.41 (A) AND (B) ALL BRANCH CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL HAVE A LOCK-ON DEVICE AND RED IDENTIFICATION THAT DOES NOT DAMAGE OR OBSCURE THE MANUFACTURER'S MARKING.



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Project # 201101

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RIO RICO, AZ 85648

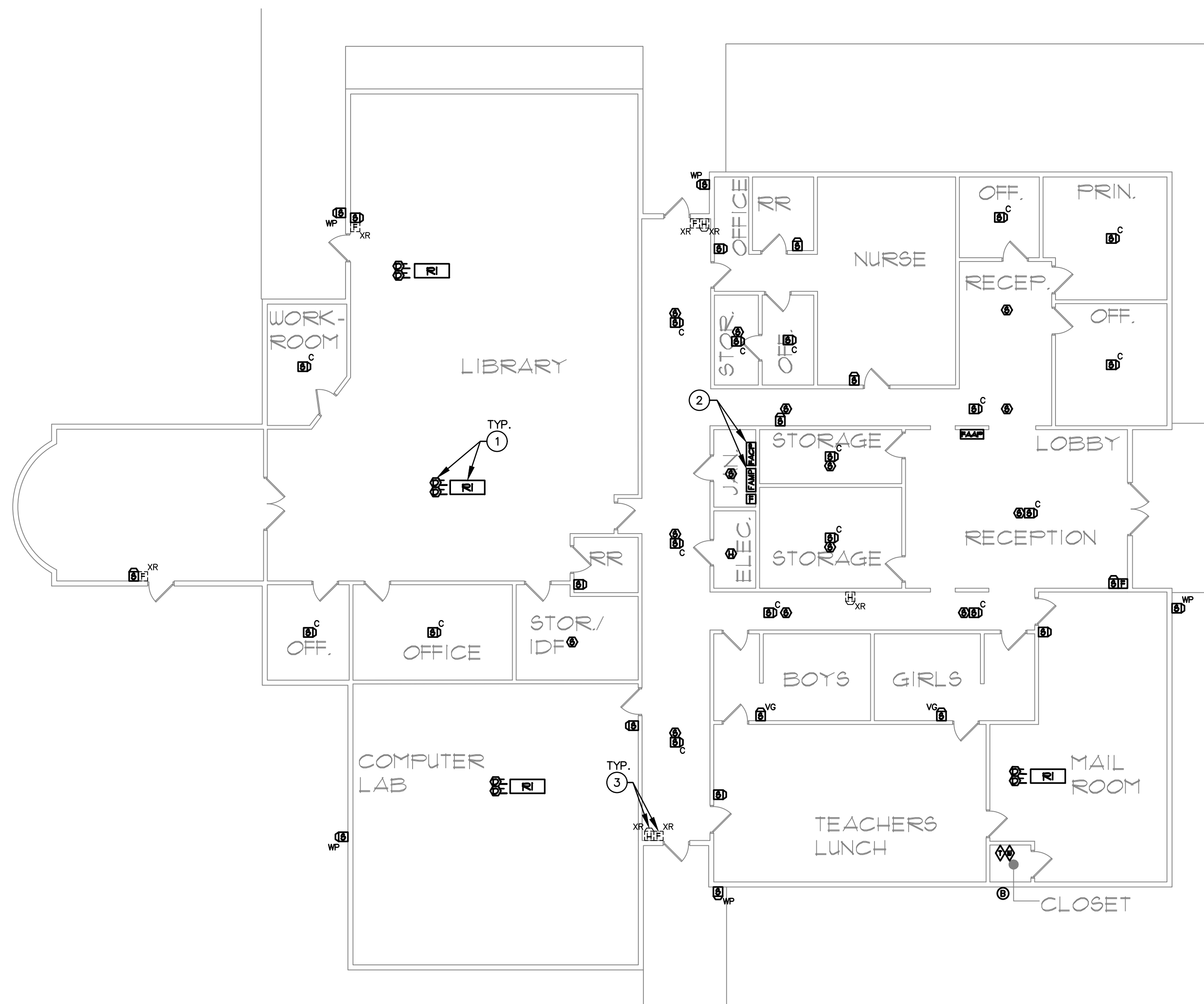
**COATIMUNDI MIDDLE SCHOOL  
FIRE ALARM REPLACEMENT**

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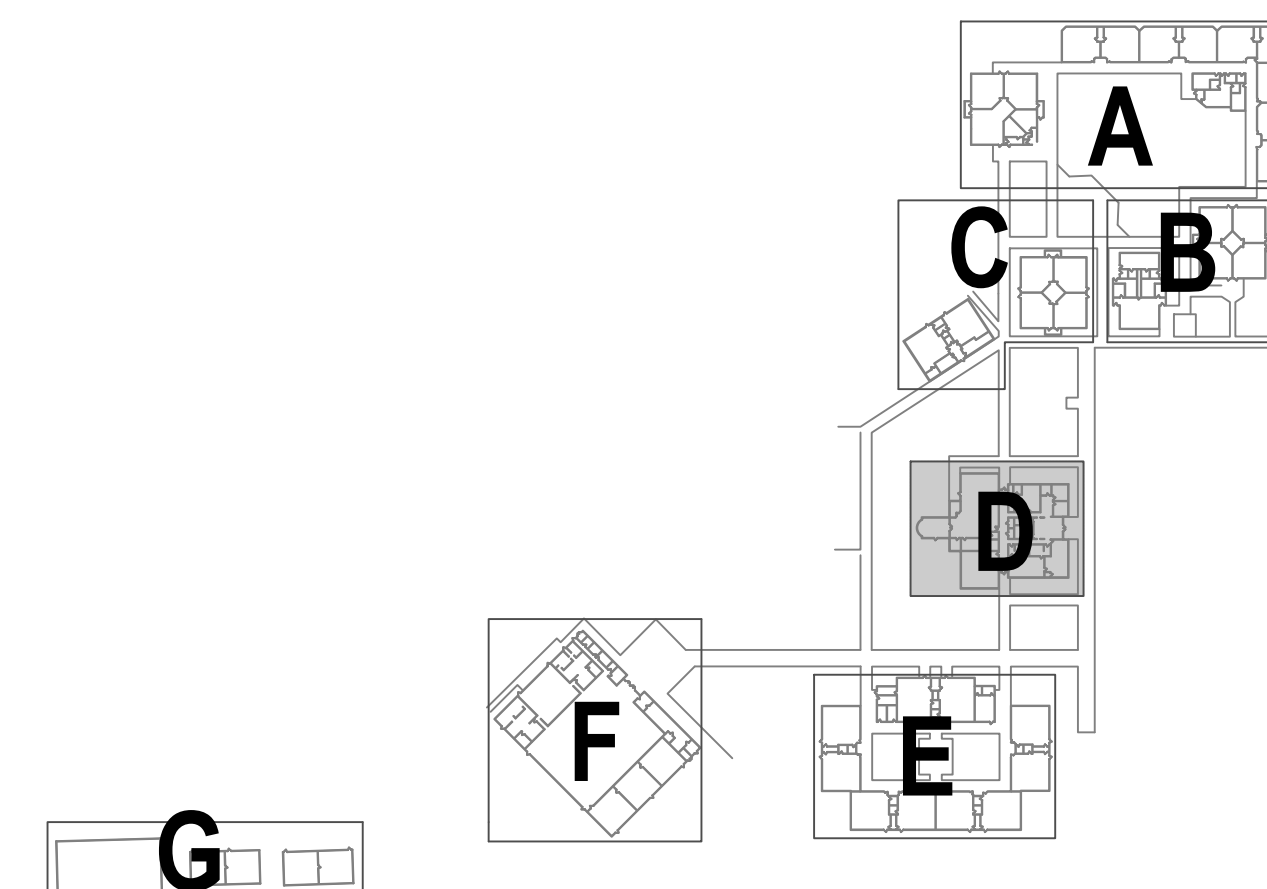
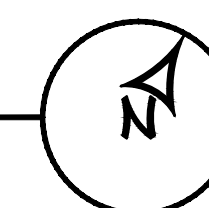
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| Project Number<br>201101 | Date<br>12.03.2020 | Drawn By<br>DW | Checked By<br>HAL |
|--------------------------|--------------------|----------------|-------------------|

FIRE ALARM  
REPLACEMENT PLAN  
AREA C  
**FE2.3**



**FIRE ALARM REPLACEMENT PLAN - AREA D**

SCALE: 3/32"=1'-0"



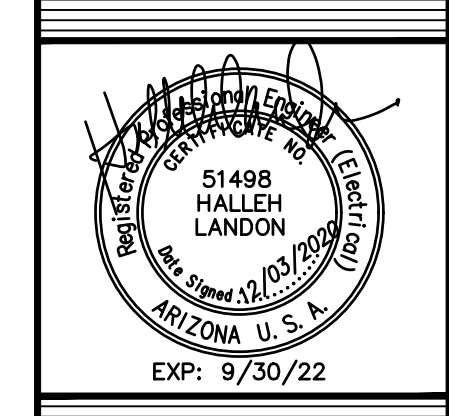
**KEY PLAN**  
NOT TO SCALE

**KEYNOTES**

- ① PROVIDE NEW DUCT/SMOKE DETECTOR ALONG WITH REMOTE INDICATOR.
- ② REMOVE EXISTING 20A,120V NOTIFIER 2020 WITH POWER SUPPLY LOCATED BELOW FACP CONNECTION AND RECONNECT NEW UNITS.
- ③ REMOVE EXISTING WALL NOTIFICATION DEVICE AND PROVIDE BLANK COVER PLATE.

**SHEET NOTES**

1. REMOVE ALL EXISTING FIRE ALARM DEVICES, HEADEND EQUIPMENT, AND CABLES.
2. PROVIDE A COMPLETE NEW FIRE ALARM SYSTEM INCLUDING HEADEND EQUIPMENT, NOTIFICATION/INITIATING DEVICES, AND REQUIRED CABLING.
3. REMOVE ALL EXISTING CABLING BETWEEN BUILDING AND REPLACE WITH NEW. REUSE EXISTING UNDERGROUND RACEWAY. IF EXISTING UNDERGROUND RACEWAY ARE NOT SUITABLE FOR REUSE, REFER TO SHEET FE1.1 FOR ADDITIONAL REQUIREMENTS.
4. DO NOT SPLICE CABLING BELOW GRADE.
5. PER NEC 760.41 (A) AND (B) ALL BRANCH CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL HAVE A LOCK-ON DEVICE AND RED IDENTIFICATION THAT DOES NOT DAMAGE OR OBSCURE THE MANUFACTURER'S MARKING.



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Design Contact:  
**DICK SANTISTEVAN**  
Project # 201101

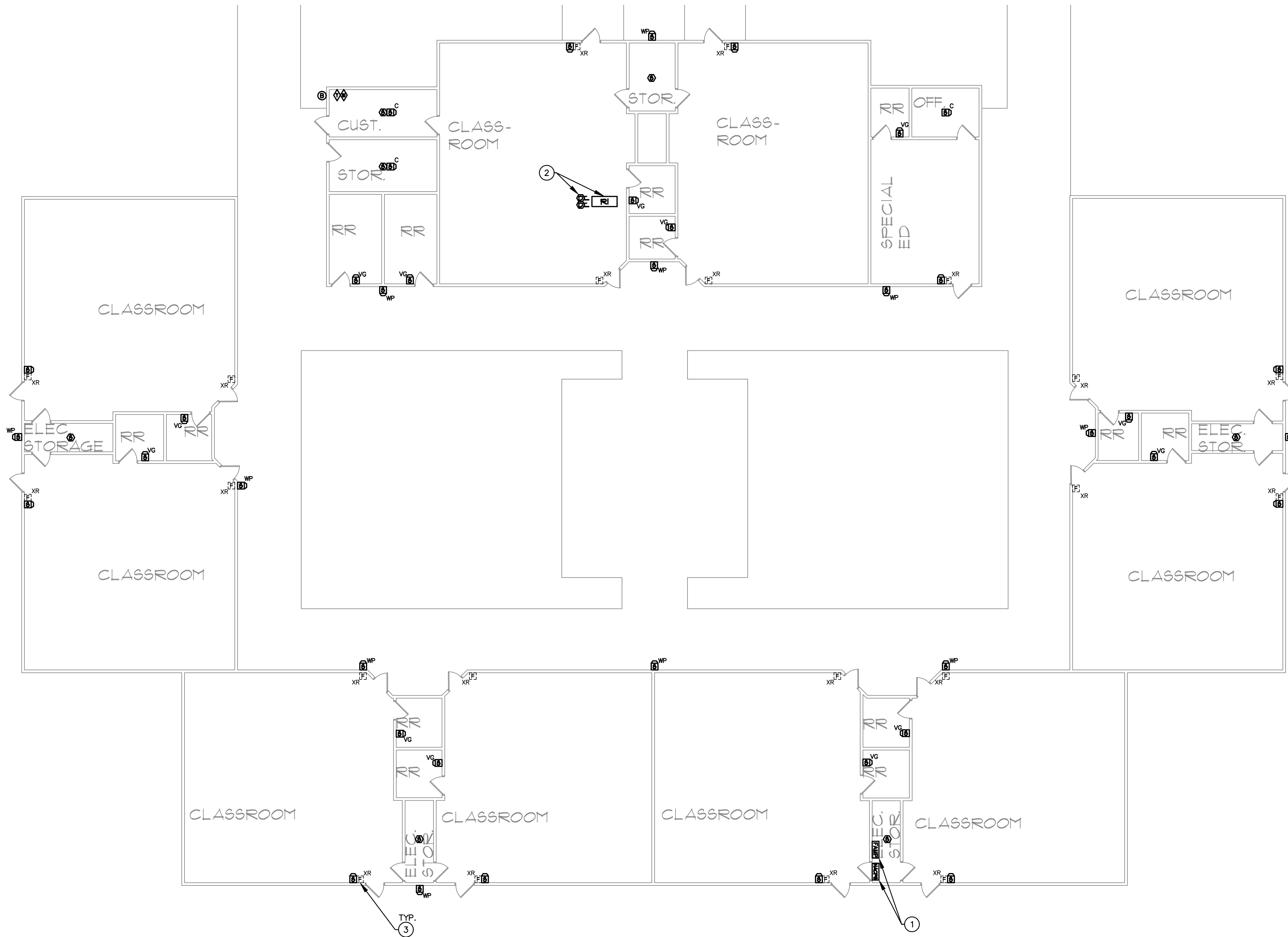
**SANTA CRUZ VALLEY  
UNIFIED DISTRICT**  
1412 W FRONTAGE RD  
RIO RICO, AZ 85648

**COATIMUNDI MIDDLE SCHOOL  
FIRE ALARM REPLACEMENT**

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| Project Number | 201101     |
| Date           | 12.03.2020 |
| Drawn By       | DW         |
| Checked By     | HAL        |



**FIRE ALARM REPLACEMENT PLAN - AREA E**

SCALE: 3/32"=1'-0"



**KEY PLAN**  
NOT TO SCALE

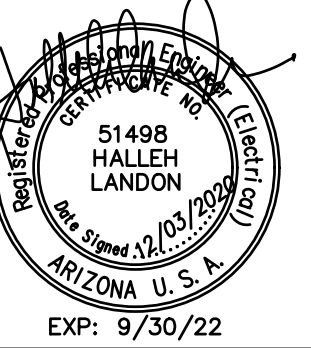
**KEYNOTES**

- ① REMOVE EXISTING 20A, 120V REMOTE FIRE ALARM POWER SUPPLY AND RECONNECT NEW UNITS.
- ② PROVIDE NEW DUCT/SMOKE DETECTOR ALONG WITH REMOTE INDICATOR.
- ③ REMOVE EXISTING FIRE ALARM DEVICE AND ASSOCIATED WIRING AND PROVIDE BLANK COVER PLATE.

**SHEET NOTES**

1. REMOVE ALL EXISTING FIRE ALARM DEVICES, HEADEND EQUIPMENT, AND CABLES.
2. PROVIDE A COMPLETE NEW FIRE ALARM SYSTEM INCLUDING HEADEND EQUIPMENT, NOTIFICATION/INITIATING DEVICES, AND REQUIRED CABLING.
3. REMOVE ALL EXISTING CABLING BETWEEN BUILDING AND REPLACE WITH NEW. REUSE EXISTING UNDERGROUND RACEWAY. IF EXISTING UNDERGROUND RACEWAY ARE NOT SUITABLE FOR REUSE, REFER TO SHEET FE1.1 FOR ADDITIONAL REQUIREMENTS.
4. DO NOT SPLICE CABLING BELOW GRADE.
5. PER NEC 760.41 (A) AND (B) ALL BRANCH CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL HAVE A LOCK-ON DEVICE AND RED IDENTIFICATION THAT DOES NOT DAMAGE OR OBSCURE THE MANUFACTURER'S MARKING.

**adm group**  
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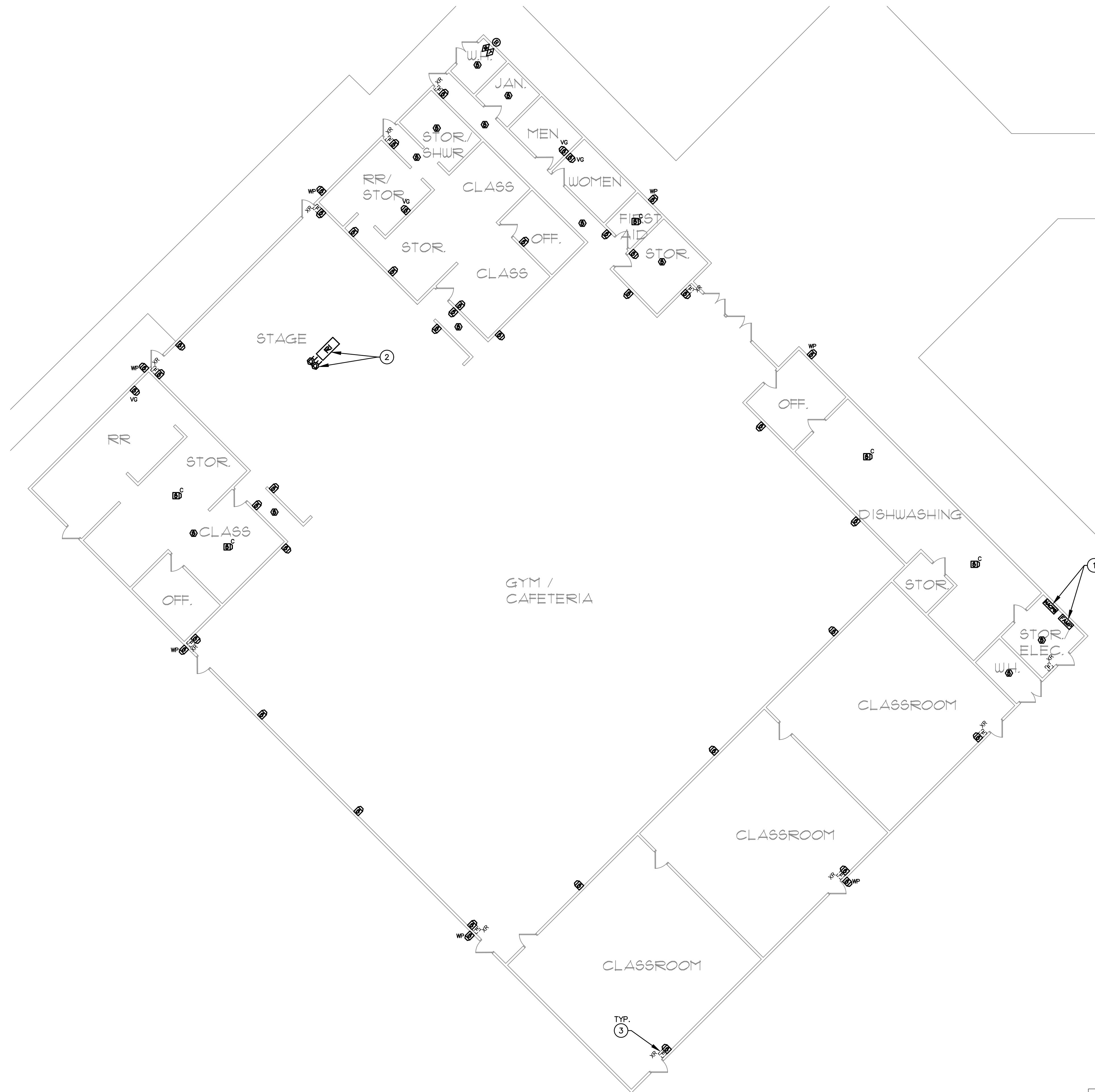
**ENERGY SYSTEMS DESIGN**  
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Scottsdale, AZ 85251  
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Project # 201101  
Design Contact:  
DICK SANTISTEVAN

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**COA TIMUNDI MIDDLE SCHOOL  
FIRE ALARM REPLACEMENT**

| Revisions | Date |
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| Project Number<br>201101 | Date<br>12.03.2020 | Drawn By<br>DW | Checked By<br>HAL |
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FIRE ALARM  
REPLACEMENT PLAN  
AREA E  
**FE2.5**

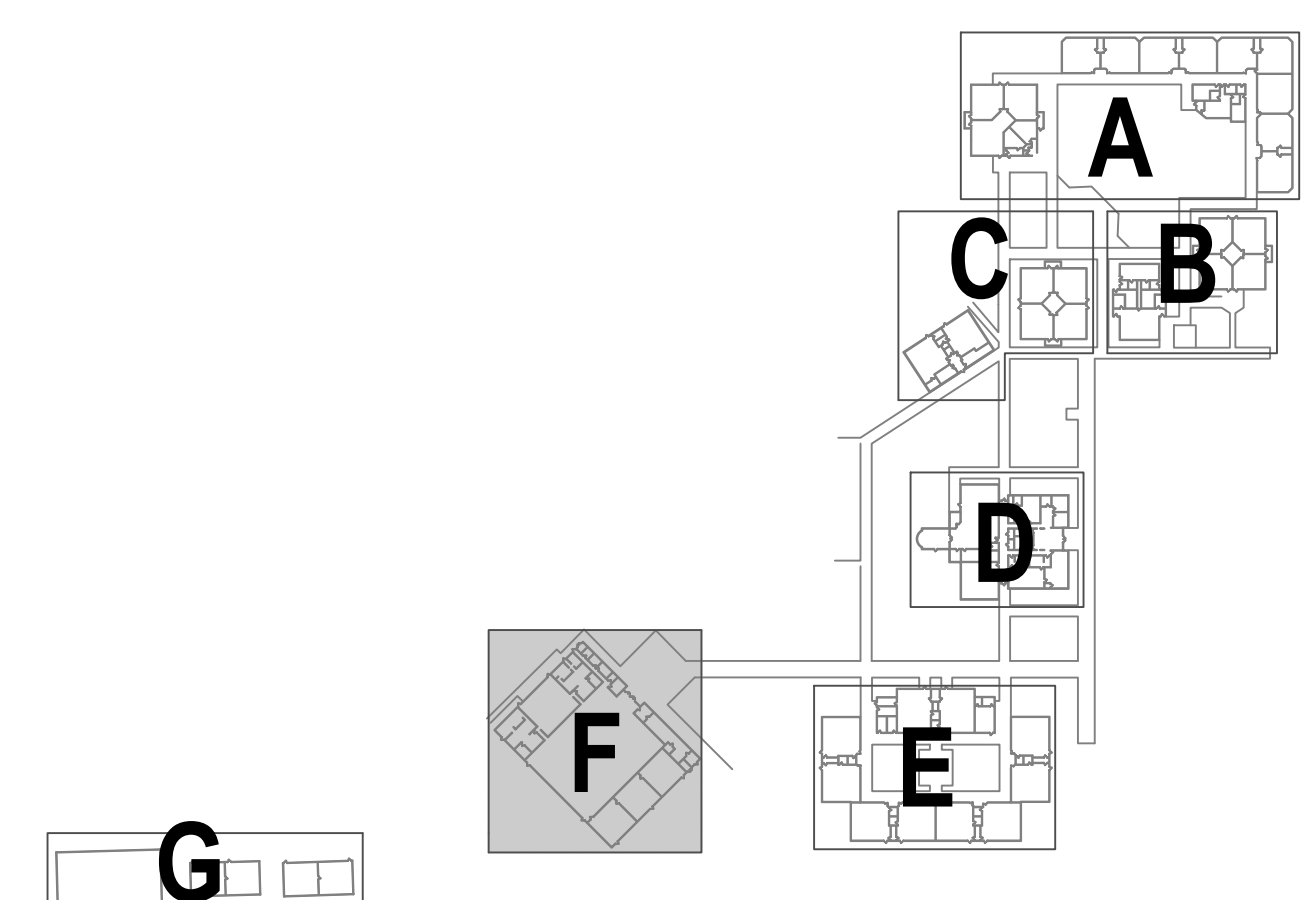


**KEYNOTES**

- ① FOR NEW NACPS/FACP, PROVIDE 20A,120V POWER CONNECTION FOR EACH. EXTEND TO NEAREST 120/208V PANEL BOARD AND PROVIDE NEW 20A/1P CIRCUIT BREAKER.
- ② PROVIDE NEW DUCT/SMOKE DETECTOR ALONG WITH REMOTE INDICATOR.
- ③ REMOVE EXISTING FIRE ALARM DEVICE AND ASSOCIATED WIRING AND PROVIDE BLANK COVER PLATE.

**SHEET NOTES**

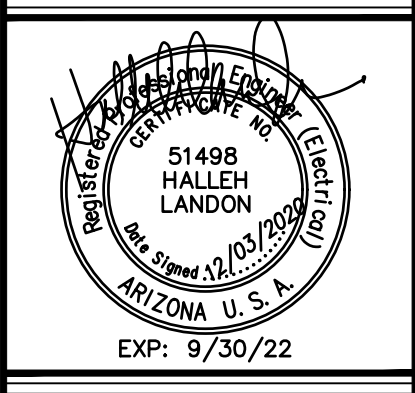
- 1. REMOVE ALL EXISTING FIRE ALARM DEVICES, HEADEND EQUIPMENT, AND CABLES.
- 2. PROVIDE A COMPLETE NEW FIRE ALARM SYSTEM INCLUDING HEADEND EQUIPMENT, NOTIFICATION/INITIATING DEVICES, AND REQUIRED CABLING.
- 3. REMOVE ALL EXISTING CABLING BETWEEN BUILDING AND REPLACE WITH NEW. REUSE EXISTING UNDERGROUND RACEWAY. IF EXISTING UNDERGROUND RACEWAY ARE NOT SUITABLE FOR REUSE, REFER TO SHEET FE1.1 FOR ADDITIONAL REQUIREMENTS.
- 4. DO NOT SPLICE CABLING BELOW GRADE.
- 5. PER NEC 760.41 (A) AND (B) ALL BRANCH CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL HAVE A LOCK-ON DEVICE AND RED IDENTIFICATION THAT DOES NOT DAMAGE OR OBSCURE THE MANUFACTURER'S MARKING.



**KEY PLAN**  
NOT TO SCALE

**FIRE ALARM REPLACEMENT PLAN - AREA F**  
SCALE: 3/32"=1'-0"

**adm group**  
2100 West 15th Street | Phoenix, Arizona 85021  
Tel: 480.285.3800 | Fax: 480.285.3801



**ENERGY SYSTEMS DESIGN**  
Suite 275  
7135 East Camelback Road  
Scottsdale, AZ 85261  
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Design Contact:  
DICK SANTISTEVAN  
Project # 201101

**SANTA CRUZ VALLEY  
UNIFIED DISTRICT**  
1412 W FRONTAGE RD  
RIO RICO, AZ 85648  
**COATIMUNDI MIDDLE SCHOOL  
FIRE ALARM REPLACEMENT**

| Revisions | Date |
|-----------|------|
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|--------------------------|--------------------|----------------|-------------------|
| Project Number<br>201101 | Date<br>12.03.2020 | Drawn By<br>DW | Checked By<br>HAL |
|--------------------------|--------------------|----------------|-------------------|

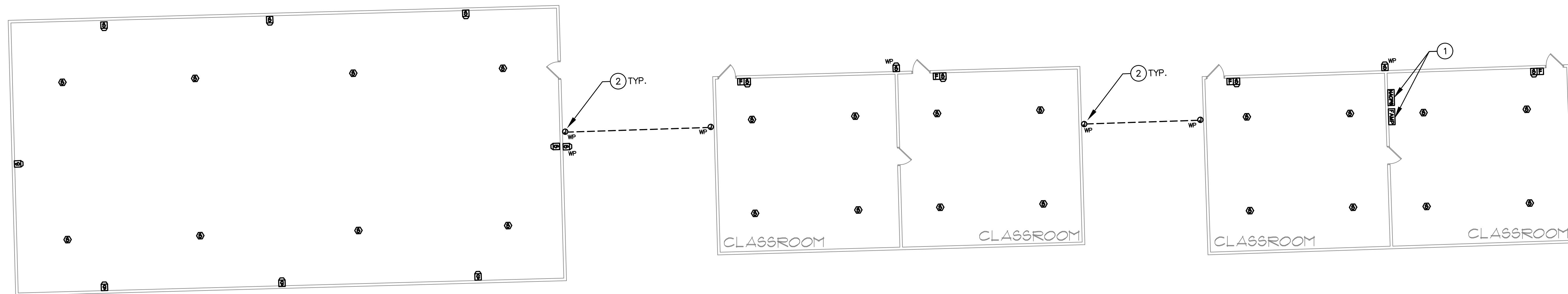
FIRE ALARM  
REPLACEMENT PLAN  
AREA F  
**FE2.6**

**KEYNOTES**

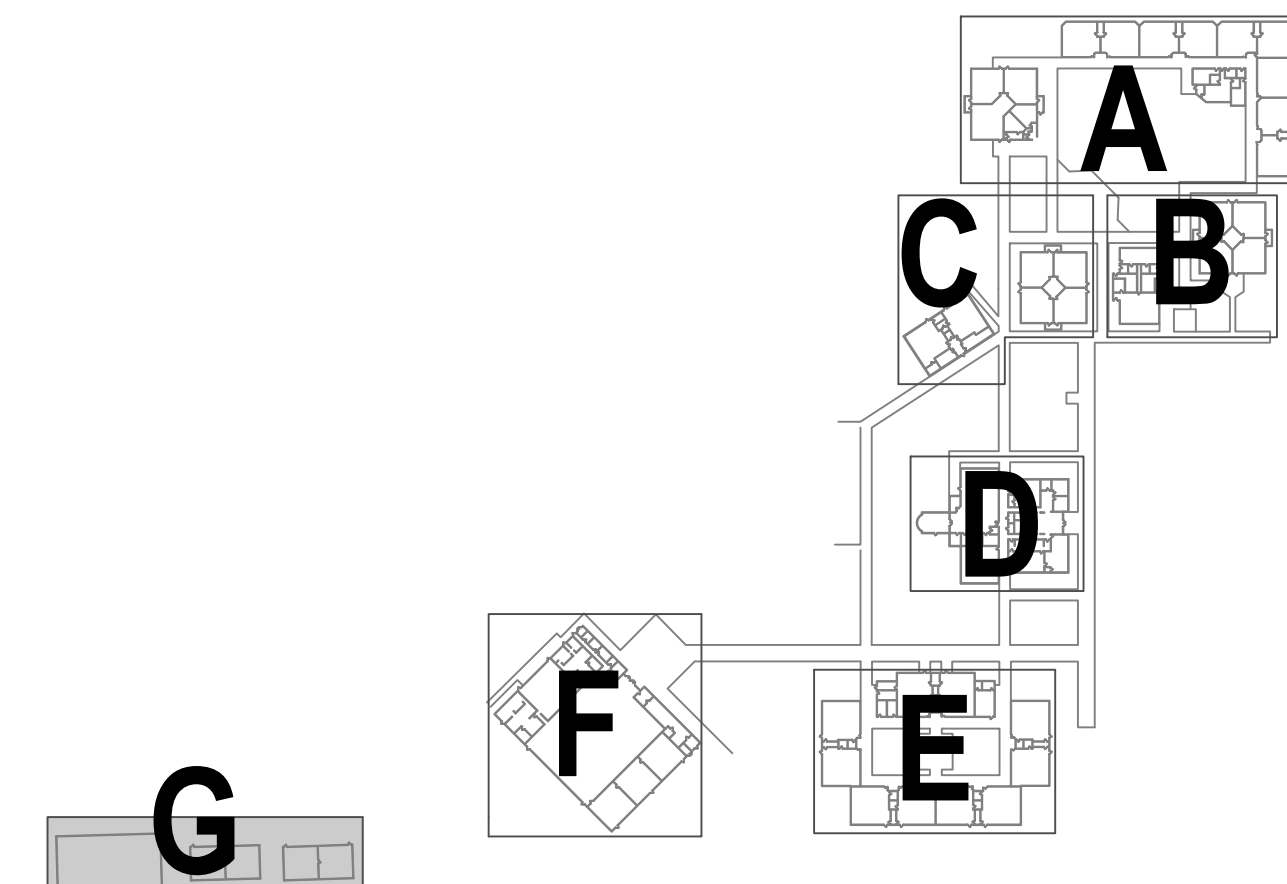
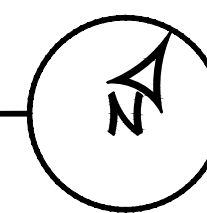
- ① REMOVE EXISTING 20A, 120V REMOTE FIRE ALARM POWER SUPPLY AND RECONNECT NEW UNITS.
- ② EXTEND NEW UNDERGROUND FIRE ALARM CIRCUIT TO FAMP LOCATED AT ADJACENT PORTABLE BUILDING.

**SHEET NOTES**

- 1. REMOVE ALL EXISTING FIRE ALARM DEVICES, HEADEND EQUIPMENT, AND CABLES.
- 2. PROVIDE A COMPLETE NEW FIRE ALARM SYSTEM INCLUDING HEADEND EQUIPMENT, NOTIFICATION/INITIATING DEVICES, AND REQUIRED CABLING.
- 3. REMOVE ALL EXISTING CABLING BETWEEN BUILDING AND REPLACE WITH NEW. REUSE EXISTING UNDERGROUND RACEWAY. IF EXISTING UNDERGROUND RACEWAY ARE NOT SUITABLE FOR REUSE, REFER TO SHEET FE1.1 FOR ADDITIONAL REQUIREMENTS.
- 4. DO NOT SPLICE CABLING BELOW GRADE.
- 5. PER NEC 760.41 (A) AND (B) ALL BRANCH CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT SHALL HAVE A LOCK-ON DEVICE AND RED IDENTIFICATION THAT DOES NOT DAMAGE OR OBSCURE THE MANUFACTURER'S MARKING.



**FIRE ALARM REPLACEMENT PLAN - AREA G**  
SCALE: 3/32"=1'-0"



**KEY PLAN**  
NOT TO SCALE

**adm group**  
2100 West 15th Street | Tempe, Arizona 85281  
Tel: 480.285.3800 | Fax: 480.285.3801



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Project # 201101  
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**SANTA CRUZ VALLEY  
UNIFIED DISTRICT**  
1412 W FRONTAGE RD  
RIO RICO, AZ 85648  
**COATIMUNDI MIDDLE SCHOOL  
FIRE ALARM REPLACEMENT**

| Revisions | Date |
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|--------------------------|--------------------|----------------|-------------------|
| Project Number<br>201101 | Date<br>12.03.2020 | Drawn By<br>DW | Checked By<br>HAL |
|--------------------------|--------------------|----------------|-------------------|

**FIRE ALARM  
REPLACEMENT PLAN  
AREA G  
FE2.1**



**NOTICE OF INVITATION FOR BID**

IFB: 21-02  
SFB#: BRG-DSGN-00098  
PROJECT: Coatimundi Middle School  
SFB BRG for Fire Alarm Replacement

Page  
67  
of  
67

Santa Cruz Valley Unified  
School District #35  
570 Camino Lito Galindo  
Rio Rico, AZ 85648  
520-281-8282

**EXHIBIT B**  
**SPECIFICATIONS**



# **Project Manual**

**Santa Cruz Valley Unified School District**  
570 Camino Lito Galindo  
Rio Rico, AZ 85648

## **Coatimundi Middle School Campus Fire Alarm Replacement**

1374 E. Frontage Road  
Rio Rico, AZ 85648

**ADM Project No. 7054-109**

**SFB #BRG-DSGN-00098**



by:

### **ADM Group, Inc.**

2100 West 15th Street  
Tempe, Arizona 85281  
480-285-3800

Construction Documents  
December 4, 2020

**DIVISION 26 - ELECTRICAL**

- 26 00 10 General Provisions
- 26 00 20 Scope of Work
- 26 05 00 Common Work Results for Electrical
- 26 05 19 Low-Voltage Electrical Power Conductors & Cables
- 26 05 26 Grounding & Bonding for Electrical Systems
- 26 05 29 Hangers & Supports for Electrical Systems
- 26 05 33 Raceway & Boxes for Electrical Systems
- 26 05 53 Identification for Electrical Systems

**DIVISION 28 – ELECTRONIC SAFETY AND SECURITY**

- 28 31 11 Addressable Voice Evacuation Fire Alarm System



EXP: 9/30/22

**SECTION 260010  
GENERAL PROVISIONS**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. This section of the specifications outlines the provisions of the contract work to be performed under this Division and is valid only when considered in total with other Contract Documents. This section applies to and forms a part of each section of the specifications in Division 26 and all work performed under the electrical and communications contracts. Cross references are for convenience of reader and their inclusion in or omission from any section in no way limits its scope or intent of any Contract Document.
- B. In addition, work in this Division is governed by the provisions of the Bidding Requirements, Contract Forms, General Conditions, and all sections under General Requirements.
- C. These specifications contain statements which are more definitive or more restrictive than those contained in the General Conditions. Where these statements occur, they shall take precedence over the General Conditions. Where the word "provide" or "provision" is used, it shall be definitely interpreted as "furnishing and installing complete in operating condition." Where the words "as indicated" or "as shown" are used, they shall mean as shown on contract drawings. Where items are specified in the singular, this Division shall provide the quantity as shown on the drawings plus any spares or extras mentioned on drawings or in specifications. All specified and supplied equipment shall be new.

**1.02 CODES, PERMITS AND FEES**

- A. Comply with all applicable laws, ordinances, rules, regulations, codes or rulings of governmental units having jurisdiction, as well as standards of the National Fire Protection Association and serving utility requirements.
- B. Obtain and pay for permits, fees, inspections, meters, utility connections and extensions and the like associated with work in each section of this Division.
- C. Installation procedure, methods and conditions shall comply with the latest requirements of the Federal Occupational Safety and Health Act (OSHA).

**1.03 EXAMINATION OF PREMISES**

- A. Examine the construction drawings and premises prior to bidding. No allowances will be made for not being knowledgeable of existing conditions.

**1.04 STANDARDS**

- A. The following standard publications of the latest editions and supplements thereto shall form a part of these specifications. All electrical work must, at a minimum, be in accordance with the applicable sections of these standards.
  - National Electrical Code (NEC)
  - National Fire Protection Association Standards (NFPA).
  - Underwriters' Laboratories, Inc. (UL).
  - National Electrical Manufacturers Association (NEMA).
  - Institute of Electrical and Electronic Engineers (IEEE).
  - American Society for Testing and Materials (ASTM).

- National Board of Fire Underwriters (NBFU).
- National Board of Standards (NBS).
- American National Standards Institute (ANSI).
- Insulated Power Cable Engineers Association (IPCEA).
- Electrical Testing Laboratories (ETL).
- Local Building Codes.

## 1.05 DEFINITIONS

- A. Concealed: Hidden from sight, as in trenches, chases, hollow construction, above furred spaces, suspended ceilings (acoustical or plastic type), or exposed to view only in tunnels, attics, shafts, crawl spaces, unfinished spaces, or other areas solely for maintenance and repair.
- B. Exposed: Not concealed.
- C. Unfinished Space: A room or space that is ordinarily accessible only to building maintenance personnel, a room noted on the "Finish Schedule" with exposed and unpainted construction for walls, floor or ceilings, or specifically mentioned as "unfinished."
- D. Finished Spaces: Any space ordinarily visible to the visiting public, including exterior areas.
- E. "Wiring" includes, in addition to conductors, all raceways, conduit, fittings, boxes, switches, hangers and other accessories related to such wiring.
- F. "Regulating authorities" means all governmental, utility, and fire protection authorities having jurisdiction.
- G. "Provide" means to supply, erect, install, and connect up complete, the particular work referred to, in readiness for regular operation.
- H. "Furnish" means to supply and deliver to the job.
- I. "Install" means to set in place, erect, and connect up complete, the particular work referred to, in readiness for regular operation.
- J. "Approved equal" means equipment or materials which, in the opinion of the Architect, is equal in quality, durability, appearance, strength, design and performance to equipment or material specified and will function adequately in accordance with the general design.

## 1.06 WORK AND MATERIALS

- A. All electrical materials and equipment shall be new and of the type and quality specified, listed by UL and bear their label where standards have been established, in compliance with the applicable standards of NEC (NFPA 70), NFPA, ANSI, IEEE, IPCEA and NEMA. Replace or repair any nonconforming, damaged or defective items at no extra cost to the Owner.
- B. Materials and equipment shall be standard products of a reputable manufacturer regularly engaged in manufacture of the specified item. Where more than one unit is required of any item, furnish by the same manufacturer, except where specified otherwise. Install material and equipment in accordance with manufacturer's recommendations. Should variance between plans and Specifications occur with these, contact the Architect immediately so that variations in installation can be known by all parties concerned.

- C. Deliver materials or equipment to the Project in the manufacturer's original, unopened, labeled containers, and adequately protect against moisture, tampering or damage from improper handling or storage. Do not deliver materials to the job before they are ready for installation unless adequate security is provided.
- D. Perform all labor in a thorough and workmanlike manner, to the satisfaction of the Architect. Contractor must staff the project with sufficient skilled workmen, including a fully qualified superintendent, to complete the work in the time allotted. Superintendent must be qualified to supervise all of the work of this Division.
- E. Materials provided under the contract for which the UL label is not normally available shall be mounted in separate enclosures and wired to the labeled units in an acceptable manner.
- F. No electrical equipment, lighting fixtures, junction boxes, etc. shall contain or use foam tape for gaskets or other purposes. Gasket materials shall consist of closed cell neoprene or other approved material.

### 1.07 SHOP DRAWINGS

- A. Submit all shop drawings and data in accordance with the Special Conditions and at one time for all equipment provided under this Division. All submittals pertaining to electrical specifications shall be submitted to ESD as one complete package/binder in electronic and one in non-electronic format. **ESD will not accept and will not review separate electronic submittals for each specification section or pieces of a single section.** The complete hard copy of the electrical shop drawings shall all be bound in one 3-ring binder indexed to this Division.
- B. Shop drawing submittals processed are not change orders. The purpose of shop drawing submittals by the contractor is to demonstrate that the contractor understands the design concept; he demonstrates his understanding by indicating which equipment and material he intends to furnish and install and by detailing the fabrication and installation methods he intends to use. If deviation, discrepancies or conflicts between shop drawings and specifications are discovered, either prior to or after shop drawing submittals are processed, the design drawings and specifications shall control and shall be followed.
- C. Manufacturers' data and dimension sheets shall be submitted giving all pertinent physical and engineering data including weights, cross-sections and maintenance instruction.
- D. Index all submittals and reference to these specifications.

### 1.08 EQUIPMENT PURCHASES

- A. Arrange for purchase and delivery of all materials and equipment within 20 days after approval of submittal. All materials and equipment must be ordered in ample quantities for delivery at the proper time. If items are not on the project in time to expedite completion, the Owner may purchase said equipment and materials and deduct the cost from the Contract Sum.
- B. Provide all materials of similar class or service by one manufacturer.

### 1.09 COORDINATION OF TRADES

- A. Schedule and coordinate work with that of other divisions and sections to execute the Contract expeditiously and avoid unnecessary delays.
- B. Examine all specifications and drawings to become familiar with all conditions affecting work

and consult and cooperate with other divisions and sections for determining space requirements and adequate clearances with respect to other equipment in the building. Architect reserves the right to determine space priority in the event of interference between piping, conduit and equipment of various trades.

- C. Complete rough-in requirements of all equipment to be wired under the contract are not indicated. Coordinate with respective trades furnishing equipment or with Architect, as the case may be, for complete and accurate requirements to result in a neat, workmanlike installation.
- D. If work is installed without coordinating with other trades, and such installation interferes with their installation, correct without charge any work requiring alteration and any damage to adjacent work caused by the alteration.
- E. Provide fabrication drawings of critical areas if so directed by Architect.

#### **1.10 PATENTS**

- A. Refer to the General Conditions for Contractor's responsibilities regarding patents.

### **PART 2 - PRODUCTS**

#### **2.01 WORK AND MATERIALS**

- A. All electrical materials and equipment shall be new and of the type and quality specified, listed by UL and bear their label where standards have been established, in compliance with the applicable standards of NEC (NFPA 70), NFPA, ANSI, IEEE, IPCEA and NEMA. Replace or repair any nonconforming, damaged or defective items at no extra cost to the Owner.
- B. Materials shall be suitable for intended use and location. Unless otherwise shown use enclosure types NEMA-1 for interior areas and NEMA-3R for exterior areas.
- C. Perform all labor in a thorough and workmanlike manner, to the satisfaction of the Architect/Engineer. Contractor must staff the project with sufficient skilled workmen, including a fully qualified superintendent, to complete the work in the time allotted. Superintendent must be qualified to supervise all of the work of this Division.
- D. Materials provided under the contract for which the UL label is not normally available shall be mounted in separate enclosures and wired to the labeled units in an acceptable manner.

#### **2.02 APPROVAL OF MATERIALS AND EQUIPMENT**

- A. Refer to Supplementary General Conditions for description of alternate material and equipment.

## **PART 3 - EXECUTION**

### **3.01 VERIFICATION OF DIMENSIONS**

- A. Scaled and figured dimensions are approximate only. Before proceeding with work, carefully check and verify dimensions, etc., on architectural drawings, and be responsible for properly fitting equipment and materials together and to the structure in spaces provided.
- B. Drawings are essentially diagrammatic, and many offsets, bends, pull boxes, special fittings, and exact locations are not indicated. Carefully study drawings and premises in order to determine best methods, exact locations, routes, building obstructions, etc., and install apparatus and equipment in available locations. Install apparatus and equipment in manner and locations to avoid obstructions, preserve headroom, and keep openings and passageways clear.
- C. Verify location and mounting height of all receptacles, wall mounted fixtures, switches, and other equipment before roughing in. See drawings for pertinent information. Refer questionable cases to Architect.

### **3.02 RECORD DRAWINGS**

- A. Maintain at site a set of record drawings in accordance with Section, which clearly indicate (by shading, coloring, or some other acceptable method) the day-by-day extent of work installed.

### **3.03 CLOSING-IN OF UNINSPECTED WORK**

- A. Cover no work until inspected, tested and approved. Where work is covered before inspection and test, uncover it, and when inspected, tested and approved, restore all work to original proper condition.

### **3.04 FLASHING**

- A. Flash and counterflash all conduits penetrating roofing membrane.

### **3.05 CONSTRUCTION FACILITIES**

- A. General: Under this section of the specifications, execute all work in a manner to provide safe and lawful ingress and egress to the Owner's establishment, and such facilities shall be kept clear of materials or equipment as directed by Architect.
- B. Furnish and maintain from the beginning to completion all lawful and necessary guards, railings, warning signs, etc. Take all necessary precautions required by city and state laws and OSHA to avoid injury or damage to any persons and property.
- C. Provide scaffolding, rigging, hoisting, and services necessary for erection and delivery of equipment and materials provided under this Division. Remove same from premises when no longer required.
- D. Temporary toilet facilities are specified and furnished under another section.

### **3.06 WIRING OF EQUIPMENT FURNISHED UNDER OTHER SECTIONS**

- A. Provide conduit, wire, manual motor protection switches, magnetic motor protection switches,



remote push-button switches, etc., as required and make power connections to motors and equipment furnished under other divisions of the Specifications as noted on the drawings. Provide control wiring (except as specified under Automatic Temperature Control) as outlined above for "power connections".

- B. Wiring diagrams complete with all connection details shall be furnished under each respective section.

### **3.07 EQUIPMENT ROUGH-IN**

- A. Rough in all equipment, etc., as designated on the drawings and as specified herein. The drawings indicate only the approximate location of rough-ins. The exact rough-in locations must be determined from Architectural and equipment shop drawings as applicable. The Contractor shall confirm all rough-in information with the Architect before progressing with any work for rough-in connections.
- B. Minor changes in the contract drawings shall be anticipated and provided for under this Division to comply with rough-in drawings.

### **3.08 OWNER FURNISHED AND OTHER EQUIPMENT**

- A. Rough in and make final connections to all Owner furnished equipment shown on the drawings and specified and all equipment furnished under other sections of the specifications.

### **3.09 EQUIPMENT FINAL CONNECTIONS**

- A. Provide all final connections for the following:
  - 1. All equipment furnished under this Division.
  - 2. Equipment requiring line voltage electric furnished under other sections of the specifications (except as otherwise designated).

### **3.10 CLEANUP**

- A. In addition to cleanup specified under other sections, thoroughly clean all parts of the equipment. Where exposed parts are to be painted, thoroughly clean off any spattered construction materials and remove all oil and grease spots. Wipe the surface carefully and scrape out all cracks and corners.
- B. Use steel brushes on exposed metal work to carefully remove rust, etc., and leave smooth and clean.
- C. During the progress of the work, keep the premises clean and free of debris.

### **3.11 PROJECT CLOSEOUT**

- A. Prior to completion of project, compile a complete equipment maintenance manual for all equipment supplied under sections of this Division, as described below.

### **3.12 EQUIPMENT LISTS AND MAINTENANCE MANUALS**

- A. Prior to completion of job, Contractor shall compile a complete equipment list and maintenance manual per Division 1 requirements. At a minimum the equipment list shall include the following items for every piece of material and equipment supplied under this section of the specifications.
  - 1. Name, model and manufacturer.

2. Complete parts drawings and list.
  3. Local supply for parts and replacement and telephone number.
  4. All tags, inspection slips, instruction packages, etc., removed from equipment as shipped from the factory, properly identified as to the piece of equipment it was taken from.
- B. Maintenance manuals shall be furnished for each applicable section of the specifications per Division 1 requirements. At a minimum the maintenance manual shall include all available manufacturers' operation and maintenance instructions, together with as-built drawings and lists hereinbefore specified and all other diagrams and instructions necessary to properly operate and maintain the equipment. The maintenance manuals shall also include the name, address and phone number of the General Contractor and all subcontractors involved in any of the work specified herein.

### **3.13 TESTING**

- A. Upon completion of the electrical work, the entire installation shall be tested and demonstrated to be operating satisfactorily.
- B. Wiring shall be tested for continuity, short circuits and/or accidental grounds.
- C. Tests and adjustments shall be made prior to acceptance of the electrical installation by the Architect, and a certificate of inspection and acceptance of the electrical installation by local inspection authorities shall be provided.
- D. All equipment or wiring provided, which tests prove to be defective or operating improperly, shall be corrected or replaced promptly, at no additional cost to the Owner.

### **3.14 FINAL OBSERVATION**

- A. Comply with the requirements of Division 1 - General Requirements.
- B. Prior to notifying the Architect/Engineer the project is ready for the final observation, the contractor shall verify the following:
  1. The fire alarm system is complete, operational and fire marshal acceptance.
  2. All existing control system that are impacted by the fire alarm systems are complete and operational and are functioning properly.
- C. Once notified the Architect/Engineer will visit the jobsite and will prepare a final "punch list" of all items to be finished or corrected prior to project acceptance by the owner. This division will be responsible to finish or correct all items on this list prior to subsequent verification visit by the Architect/Engineer. In the event additional verification visit(s) are required, the Architect/Engineer shall be compensated at his/her normal rates for subsequent by the contractor responsible for this Division work. Payment for subsequent verification visit(s) is due and payable prior to issuance of final acceptance observation report for this Division.

### **3.15 GUARANTEE**

- A. Guarantee all material, equipment and workmanship for all sections under this Division in writing to be free from defects of material and workmanship for one year from date of final acceptance, as outlined in the General Conditions. Replace without charge any material or equipment proving defective during this period. The guarantee shall include performance of equipment under all conditions of load, installing any additional items of control and/or protective devices as required.

**END OF SECTION**

**SECTION 260020  
SCOPE OF WORK**

**PART 1 - GENERAL**

- 1.01** The work under this Division includes furnishing all labor, material and equipment necessary for the installation and placing into operation of the electrical systems including fire alarm specified herein and as indicated on the drawings.
- 1.02** The work shall also include the completion of such minor details of electrical work not mentioned or shown which are necessary for the successful operation of all electrical systems described on the drawings or required by these specifications.

**PART 2 - SCOPE**

- 2.01** The work includes, but is not necessarily limited to, provision of the following:
- A. Fire Alarm (FA) system with full ADA and Fire Marshal compliance.
  - B. Required telephone/Data wiring and conduit system.
  - C. Line voltage power connections for the fire alarm headend equipment/power supplies.
  - D. All equipment and materials specified in this Division.
  - E. Penetration fire stop materials and installation as indicated on the drawings.

**PART 3 - AS-BUILT DRAWINGS**

- 3.01** The Electrical Division shall maintain as-built drawings as specified in Division 1 requirements.
- 3.02** Drawings shall show locations of all concealed and exposed conduit runs, giving the number and size of conduit and wire. Underground ducts shall be shown with cross-section elevations. Any pipe, conduit or lines of other trades shall be included.
- 3.03** Reproducible as-built drawings shall be delivered to the Architect.
- 3.04** See Division 1 for additional requirements.

**END OF SECTION**

**SECTION 260500**  
**COMMON WORK RESULTS FOR ELECTRICAL**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section Includes:
  - 1. Sleeves for raceways and cables.
  - 2. Sleeve seals.
  - 3. Grout.
  - 4. Common electrical installation requirements.

**1.02 SUBMITTALS**

- A. Product Data: For sleeve seals.

**PART 2 - PRODUCTS**

**2.01 SLEEVES FOR RACEWAYS AND CABLES**

- A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.
- B. Sleeves for Rectangular Openings: Galvanized sheet steel.
  - 1. Minimum Metal Thickness:
    - a. For sleeve cross-section rectangle perimeter less than 50 in (1270 mm) and no side more than 16 in (400 mm), thickness shall be 0.052 in (1.3 mm).
    - b. For sleeve cross-section rectangle perimeter equal to, or more than, 50 in (1270 mm) and 1 or more sides equal to, or more than, 16 in (400 mm), thickness shall be 0.138 in (3.5 mm).

**2.02 SLEEVE SEALS**

- A. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and raceway or cable.
  - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Advance Products & Systems, Inc.
    - b. Calpico, Inc.
    - c. Metraflex Co.
    - d. Pipeline Seal and Insulator, Inc.
    - e. 3M, Inc.
  - 2. Sealing Elements: EPDM or NBR interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
  - 3. Pressure Plates: Carbon steel. Include two for each sealing element.
  - 4. Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements. Include one for each sealing element.

**2.03 GROUT**

- A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

## **PART 3 - EXECUTION**

### **3.01 COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION**

- A. Comply with NECA 1.
- B. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.
- C. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom consistent with these requirements.
- D. Equipment: Install to facilitate service, maintenance, and repair or replacement of components of both electrical equipment and other nearby installations. Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.

### **3.02 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS**

- A. Electrical penetrations occur when raceways, cables or wireways, penetrate concrete slabs, concrete or masonry walls, or fire-rated floor and wall assemblies.
- B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.
- C. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.
- D. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.
- E. Cut sleeves to length for mounting flush with both surfaces of walls.
- F. Extend sleeves installed in floors 2 in (50 mm) above finished floor level.
- G. Size pipe sleeves to provide 1/4 in (6.4 mm) annular clear space between sleeve and raceway or cable, unless indicated otherwise.
- H. Seal space outside of sleeves with grout for penetrations of concrete and masonry
  - 1. Promptly pack grout solidly between sleeve and wall so no voids remain. Tool exposed surfaces smooth; protect grout while curing.
- I. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway or cable, using joint sealant appropriate for size, depth, and location of joint.
- J. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway and cable penetrations. Install sleeves and seal raceway and cable penetration sleeves with firestop materials.

- K. Roof-Penetration Sleeves: Seal penetration of individual raceways and cables with flexible boot-type flashing units applied in coordination with roofing work.
- L. Aboveground, Exterior-Wall Penetrations: Seal penetrations using steel pipe sleeves and mechanical sleeve seals. Select sleeve size to allow for 1 in (25 mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.
- M. Underground, Exterior-Wall Penetrations: Install cast-iron pipe sleeves. Size sleeves to allow for 1 in (25 mm) annular clear space between raceway or cable and sleeve for installing mechanical sleeve seals.

### **3.03 SLEEVE-SEAL INSTALLATION**

- A. Install to seal exterior wall penetrations.
- B. Use type and number of sealing elements recommended by manufacturer for raceway or cable material and size. Position raceway or cable in center of sleeve. Assemble mechanical sleeve seals and install in annular space between raceway or cable and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

### **3.04 FIRESTOPPING**

- A. Apply firestopping to penetrations of fire-rated floor and wall assemblies for electrical installations to restore original fire-resistance rating of assembly.

**END OF SECTION**

**SECTION 260519**  
**LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. This Section includes the following:
  - 1. Building wires and cables rated 600 V and less.
  - 2. Connectors, splices, and terminations rated 600 V and less.
  - 3. Sleeves and sleeve seals for cables.

**1.02 SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. Field quality-control test reports.

**1.03 QUALITY ASSURANCE**

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

**PART 2 - PRODUCTS**

**2.01 CONDUCTORS AND CABLES**

- A. Copper Conductors: Comply with NEMA WC 70.
- B. Conductor Insulation: Comply with NEMA WC 70 for Types THHN-THWN, XHHW and SO.
- C. Multiconductor Cable: Comply with NEMA WC 70 for metal-clad cable, Type MC and Type SOJ with ground wire.

**2.02 CONNECTORS AND SPLICES**

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. AFC Cable Systems, Inc.
  - 2. Hubbell Power Systems, Inc.
  - 3. O-Z/Gedney; EGS Electrical Group LLC.
  - 4. 3M; Electrical Products Division.
  - 5. Tyco Electronics Corp.
- C. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.



### **2.03 SLEEVES FOR CABLES**

- A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.
- B. Cast-Iron Pipe Sleeves: Cast or fabricated "wall pipe," equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.
- C. Coordinate sleeve selection and application with selection and application of firestopping.

### **2.04 SLEEVE SEALS**

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Advance Products & Systems, Inc.
  - 2. Calpico, Inc.
  - 3. Metraflex Co.
  - 4. Pipeline Seal and Insulator, Inc.
  - 5. 3M, Inc.
- C. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and cable.
  - 1. Sealing Elements: EPDM or NBR interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
  - 2. Pressure Plates: Carbon steel. Include two for each sealing element.
  - 3. Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements. Include one for each sealing element.

## **PART 3 - EXECUTION**

### **3.01 CONDUCTOR MATERIAL APPLICATIONS**

- A. Branch Circuits: Copper, 90 degree C rated insulation. Solid for #10 AWG and smaller; stranded for #8 AWG and larger.

### **3.02 CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING METHODS**

- A. Exposed Branch Circuits, Including in Crawlspace: Type THHN-THWN-2, copper, stranded and single conductors in raceway.
- B. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN-THWN-2, copper, stranded and single conductors in raceway.
- C. Coordinate first paragraph below with Division 26 Section "Underground Ducts and Raceways for Electrical Systems."
- D. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-THWN-2, single conductors in raceway.

- E. Class 1 Control Circuits: Type THHN-THWN-2, in raceway.
- F. Class 2 Control Circuits: Type THHN-THWN-2, in raceway, Power-limited cable, concealed in building finishes, and Power-limited tray cable, in cable tray. Cable shall be plenum rated where not in conduit and installed in plenums or environmental air spaces.

### **3.03 INSTALLATION OF CONDUCTORS AND CABLES**

- A. Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.
- B. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.
- C. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.
- D. Install exposed cables parallel and perpendicular to surfaces of exposed structural members and follow surface contours where possible.
- E. Support cables according to Division 26 Sections "Hangers and Supports for Electrical Systems."
- F. Identify and color-code conductors and cables according to Division 26 Section "Identification for Electrical Systems."
- G. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.
- H. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.
  - 1. Use oxide inhibitor in each splice and tap conductor for aluminum conductors.

### **3.04 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS**

- A. Coordinate sleeve selection and application with selection and application of firestopping.
- B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.
- C. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.
- D. Cut sleeves to length for mounting flush with both wall surfaces.
- E. Extend sleeves installed in floors 2 in (50 mm) above finished floor level.
- F. Size pipe sleeves to provide 1/4 in (6.4 mm) annular clear space between sleeve and cable unless sleeve seal is to be installed.
- G. Seal space outside of sleeves with grout for penetrations of concrete and masonry and with approved joint compound for gypsum board assemblies.

- H. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and cable, using joint sealant appropriate for size, depth, and location of joint according to Division 07 Section "Joint Sealants."
- I. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at cable penetrations. Install sleeves and seal with firestop materials according to Division 07 Section "Penetration Firestopping."
- J. Roof-Penetration Sleeves: Seal penetration of individual cables with flexible boot-type flashing units applied in coordination with roofing work.
- K. Aboveground Exterior-Wall Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Size sleeves to allow for 1 in (25 mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.

### **3.05 SLEEVE-SEAL INSTALLATION**

- A. Install to seal underground exterior-wall penetrations.
- B. Use type and number of sealing elements recommended by manufacturer for cable material and size. Position cable in center of sleeve. Assemble mechanical sleeve seals and install in annular space between cable and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

### **3.06 FIRESTOPPING**

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly.

### **3.07 FIELD QUALITY CONTROL**

- A. Perform tests and inspections and prepare test reports.
- B. Tests and Inspections:
  - 1. After installing conductors and cables and before electrical circuitry has been energized, test feeder conductors, and conductors feeding the following critical equipment and services for compliance with requirements.
  - 2. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
- C. Test Reports: Prepare a written report to record the following:
  - 1. Test procedures used.
  - 2. Test results that comply with requirements.
  - 3. Test results that do not comply with requirements and corrective action taken to achieve compliance with requirements.
- D. Remove and replace malfunctioning units and retest as specified above.

**END OF SECTION**

**SECTION 260526**  
**GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. This Section includes methods and materials for grounding systems and equipment.

**1.02 SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. Field quality-control test reports.

**1.03 QUALITY ASSURANCE**

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with UL 467 for grounding and bonding materials and equipment.

**PART 2 - PRODUCTS**

**2.01 CONDUCTORS**

- A. Insulated Conductors: Copper or tinned-copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.
- B. Bare Copper Conductors:
  - 1. Solid Conductors: ASTM B 3.
  - 2. Stranded Conductors: ASTM B 8.
  - 3. Tinned Conductors: ASTM B 33.

**2.02 CONNECTORS**

- A. Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.

**PART 3 - EXECUTION**

**3.01 EQUIPMENT GROUNDING**

- A. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:
  - 1. Branch circuits.
  - 2. Flexible raceway runs.
  - 3. Armored and metal-clad cable runs.

### **3.02 INSTALLATION**

- A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.

### **3.03 FIELD QUALITY CONTROL**

- A. Perform the following tests and inspections and prepare test reports:
  - 1. After installing grounding system but before permanent electrical circuits have been energized, test for compliance with requirements.
  - 2. Test completed grounding system at each location where a maximum ground-resistance level is specified, at service disconnect enclosure grounding terminal, and at ground test wells.
    - a. Measure ground resistance not less than two full days after last trace of precipitation and without soil being moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural ground resistance.
    - b. Perform tests by fall-of-potential method according to IEEE 81.

**END OF SECTION**

**SECTION 260529**  
**HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section includes:
  - 1. Hangers and supports for electrical equipment and systems.
  - 2. Construction requirements for concrete bases.

**1.02 PERFORMANCE REQUIREMENTS**

- A. Delegated Design: Design supports for multiple raceways, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. Design supports for multiple raceways capable of supporting combined weight of supported systems and its contents.
- C. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.
- D. Rated Strength: Adequate in tension, shear, and pullout force to resist maximum loads calculated or imposed for this Project, with a minimum structural safety factor of five times the applied force.

**1.03 SUBMITTALS**

- A. Product Data: For steel slotted support systems.
- B. Shop Drawings: Signed and sealed by a qualified professional engineer. Show fabrication and installation details and include calculations for the following:
  - 1. Equipment supports.
- C. Welding certificates.

**1.04 QUALITY ASSURANCE**

- A. Welding: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- B. Comply with NFPA 70.

## PART 2 - PRODUCTS

### 2.01 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS

- A. Steel Slotted Support Systems: Comply with MFMA-4, factory-fabricated components for field assembly.
  - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Allied Tube & Conduit.
    - b. Cooper B-Line, Inc.; a division of Cooper Industries.
    - c. ERICO International Corporation.
    - d. GS Metals Corp.
    - e. Thomas & Betts Corporation.
    - f. Unistrut; Tyco International, Ltd.
    - g. Wesanco, Inc.
  - 3. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.
  - 4. Nonmetallic Coatings: Manufacturer's standard PVC, polyurethane, or polyester coating applied according to MFMA-4.
  - 5. Painted Coatings: Manufacturer's standard painted coating applied according to MFMA-4.
  - 6. Channel Dimensions: Selected for applicable load criteria.
- B. Raceway and Cable Supports: As described in NECA 1 and NECA 101.
- C. Conduit and Cable Support Devices: Steel hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.
- D. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:
  - 1. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete, steel, or wood, with tension, shear, and pullout capacities appropriate for supported loads and building materials where used.
    - a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - b. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      - 1) Hilti Inc.
      - 2) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.
      - 3) MKT Fastening, LLC.
      - 4) Simpson Strong-Tie Co., Inc.; Masterset Fastening Systems Unit.
  - 2. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.
    - a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - b. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      - 1) Cooper B-Line, Inc.; a division of Cooper Industries.
      - 2) Empire Tool and Manufacturing Co., Inc.



- 3) Hilti Inc.
- 4) ITW Ramset/Red Head; a division of Illinois Tool Works, Inc.
- 5) MKT Fastening, LLC.
- 3. Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.
- 4. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.
- 5. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.
- 6. Toggle Bolts: All-steel springhead type.
- 7. Hanger Rods: Threaded steel.

## **2.02 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES**

- A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.
- B. Materials: Comply with requirements in Division 05 Section "Metal Fabrications" for steel shapes and plates.

## **PART 3 - EXECUTION**

### **3.01 APPLICATION**

- A. Comply with NECA 1 and NECA 101 for application of hangers and supports for electrical equipment and systems except if requirements in this Section are stricter.
- B. Maximum Support Spacing and Minimum Hanger Rod Size for Raceway: Space supports for EMT, IMC, and RMC as scheduled in NECA 1, where its Table 1 lists maximum spacings less than stated in NFPA 70. Minimum rod size shall be 1/4 in (6 mm) in diameter.
- C. Multiple Raceways or Cables: Install trapeze-type supports fabricated with steel slotted support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits.
  - 1. Secure raceways and cables to these supports with two-bolt conduit clamps, single-bolt conduit clamps, or single-bolt conduit clamps using spring friction action for retention in support channel.
- D. Spring-steel clamps designed for supporting single conduits without bolts may be used for 1-1/2 in (38 mm) and smaller raceways serving branch circuits and communication systems above suspended ceilings and for fastening raceways to trapeze supports.

### **3.02 SUPPORT INSTALLATION**

- A. Comply with NECA 1 and NECA 101 for installation requirements except as specified in this Article.
- B. Raceway Support Methods: In addition to methods described in NECA 1, EMT, IMC, and RMC may be supported by openings through structure members, as permitted in NFPA 70.
- C. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb (90 kg).

- D. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:
1. To Existing Concrete: Expansion anchor fasteners.
  2. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 in (100 mm) thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 in (100 mm) thick.
  3. To Steel: Welded threaded studs complying with AWS D1.1/D1.1M, with lock washers and nuts, Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69, or Spring-tension clamps.
  4. To Light Steel: Sheet metal screws.
  5. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate by means that meet seismic-restraint strength and anchorage requirements.
- E. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.

### **3.03 INSTALLATION OF FABRICATED METAL SUPPORTS**

- A. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.
- B. Field Welding: Comply with AWS D1.1/D1.1M.

### **3.04 PAINTING**

- A. Touchup: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils (0.05 mm).
- B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

**END OF SECTION**

**SECTION 260533**  
**RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.

**1.02 SUBMITTALS**

- A. Product Data: For surface raceways, wireways and fittings, floor boxes, hinged-cover enclosures, and cabinets.
- B. Shop Drawings: For custom enclosures and cabinets. Include plans, elevations, sections, details, and attachments to other work.

**1.03 QUALITY ASSURANCE**

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Comply with NFPA 70.

**PART 2 - PRODUCTS**

**2.01 METAL CONDUIT AND TUBING**

- A. Rigid Steel Conduit: ANSI C80.1.
- B. IMC: ANSI C80.6.
- C. EMT: ANSI C80.3.
- D. FMC: Zinc-coated steel.
- E. LFMC: Flexible steel conduit with PVC jacket.
- F. Fittings for Conduit (Including all Types and Flexible and Liquidtight), EMT, and Cable: NEMA FB 1; listed for type and size raceway with which used, and for application and environment in which installed.
  - 1. Fittings for EMT: Steel or die-cast, set-screw or compression type.

**2.02 NONMETALLIC CONDUIT AND TUBING**

- A. ENT: NEMA TC 13.
- B. RNC: NEMA TC 2, Type EPC-40-PVC, unless otherwise indicated.

- C. LFNC: UL 1660.
- D. Fittings for ENT and RNC: NEMA TC 3; match to conduit or tubing type and material.
- E. Fittings for LFNC: UL 514B.

### **2.03 METAL WIREWAYS**

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Cooper B-Line, Inc.
  - 2. Hoffman.
  - 3. Square D; Schneider Electric.
- B. Description: Sheet metal sized and shaped as indicated, NEMA 250, Type 1, 12, or 3R, unless otherwise indicated.
- C. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.
- D. Wireway Covers: Hinged type, Screw-cover type, Flanged-and-gasketed type, or as indicated.
- E. Finish: Manufacturer's standard enamel finish.

### **2.04 NONMETALLIC WIREWAYS**

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Hoffman.
  - 2. Lamson & Sessions; Carlon Electrical Products.
  - 3. Approved equal.
- B. Description: PVC plastic, extruded and fabricated to size and shape indicated, with snap-on cover and mechanically coupled connections with plastic fasteners.
- C. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.

### **2.05 SURFACE RACEWAYS**

- A. Surface Metal Raceways: Galvanized steel with snap-on covers. Manufacturer's standard enamel finish in color selected by Architect, or Prime coating, ready for field painting, where indicated.
  - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Thomas & Betts Corporation.
    - b. Walker Systems, Inc.; Wiremold Company (The).
    - c. Wiremold Company (The); Electrical Sales Division.

- B. Surface Nonmetallic Raceways: Two-piece construction, manufactured of rigid PVC with texture and color selected by Architect from manufacturer's standard or custom colors, where indicated.
  - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Butler Manufacturing Company; Walker Division.
    - b. Enduro Systems, Inc.; Composite Products Division.
    - c. Hubbell Incorporated; Wiring Device-Kellems Division.
    - d. Lamson & Sessions; Carlon Electrical Products.
    - e. Panduit Corp.
    - f. Walker Systems, Inc.; Wiremold Company (The).
    - g. Wiremold Company (The); Electrical Sales Division.

## **2.06 BOXES, ENCLOSURES, AND CABINETS**

- A. Sheet Metal Outlet and Device Boxes: NEMA OS 1.
- B. Cast-Metal Outlet and Device Boxes: NEMA FB 1, aluminum, Type FD, with gasketed cover.
- C. Nonmetallic Outlet and Device Boxes: NEMA OS 2.
- D. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.
- E. Cast-Metal Access, Pull, and Junction Boxes: NEMA FB 1, galvanized, with gasketed cover.
- F. Hinged-Cover Enclosures: NEMA 250, Type 1, with continuous-hinge cover with flush latch, unless otherwise indicated.
  - 1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.
- G. Cabinets:
  - 1. NEMA 250, Type 1, galvanized-steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel.
  - 2. Hinged door in front cover with flush latch and concealed hinge.
  - 3. Metal barriers to separate wiring of different systems and voltage.
  - 4. Accessory feet where required for freestanding equipment.

## **PART 3 - EXECUTION**

### **3.01 RACEWAY APPLICATION**

- A. Outdoors: Apply raceway products as specified below, unless otherwise indicated:
  - 1. Exposed Conduit: Rigid steel conduit or IMC where installed below 8' AFG or otherwise subject to damage. EMT with compression fittings otherwise.
  - 2. Concealed Conduit, Aboveground: EMT.
  - 3. Underground Conduit: RNC, Type EPC-40, direct buried.
  - 4. Connection to Vibrating Equipment: LFMC.
  - 5. Boxes and Enclosures, Aboveground: NEMA 250, Type 3R.
- B. Comply with the following indoor applications, unless otherwise indicated:
  - 1. Exposed, Not Subject to Physical Damage: EMT.
  - 2. Exposed, Not Subject to Severe Physical Damage: EMT.
  - 3. Concealed in Ceilings and Interior Walls and Partitions: EMT.
  - 4. Damp or Wet Locations: Rigid steel conduit or IMC.

5. Raceways for Optical Fiber or Communications Cable: EMT.
  6. Boxes and Enclosures: NEMA 250, Type 1, except use NEMA 250, Type 4, in damp or wet locations.
- C. Minimum Raceway Size: 3/4-inch (21-mm) trade size.
- D. Raceway Fittings: Compatible with raceways and suitable for use and location.
1. Rigid and Intermediate Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.

### 3.02 INSTALLATION

- A. Comply with NECA 1 for installation requirements applicable to products specified in Part 2 except where requirements on Drawings or in this Article are stricter.
- B. Keep raceways at least 6 inches away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.
- C. Complete raceway installation before starting conductor installation.
- D. Support raceways as specified in Division 26 Section "Hangers and Supports for Electrical Systems."
- E. Arrange stub-ups so curved portions of bends are not visible above the finished slab.
- F. Install no more than the equivalent of four 90 degree bends in any conduit run except for communications conduits, for which fewer bends are allowed.
- G. Conceal conduit and EMT within finished walls, ceilings, and floors, unless otherwise indicated.
- H. Raceways Embedded in Slabs:
1. Run conduit larger than 1 in (27 mm) trade size, parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place conduit close to slab support.
  2. Arrange raceways to cross building expansion joints at right angles with expansion fittings.
- I. Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors, including conductors smaller than #4 AWG.
- J. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200 lb (90 kg) tensile strength. Leave at least 12 in (300 mm) of slack at each end of pull wire.
- K. Raceways for Optical Fiber and Communications Cable: Install as follows:
1. 3/4 in (19 mm) Trade Size and Smaller: Install raceways in maximum lengths of 50 ft (15 m).
  2. 1 in (25 mm) Trade Size and Larger: Install raceways in maximum lengths of 75 ft (23 m).
  3. Install with a maximum of two 90-degree bends or equivalent for each length of raceway unless Drawings show stricter requirements. Separate lengths with pull or junction boxes or terminations at distribution frames or cabinets where necessary to comply with these requirements.

- L. Install raceway sealing fittings at suitable, approved, and accessible locations and fill them with listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points:
  - 1. Where conduits pass from warm to cold locations, such as boundaries of refrigerated spaces.
  - 2. Where otherwise required by NFPA 70.
  
- M. Flexible Conduit Connections: Use maximum of 48 inches (1220 mm) of flexible conduit for recessed and semi-recessed lighting fixtures, equipment subject to vibration, noise transmission, or movement; and for transformers and motors.
  - 1. Use LFMC in damp or wet locations.

### **3.03 FIRESTOPPING**

- A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly.

**END OF SECTION**

**SECTION 260553**  
**IDENTIFICATION FOR ELECTRICAL SYSTEMS**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section Includes:
  - 1. Identification for conductors.
  - 2. Warning labels and signs.
  - 3. Instruction signs.
  - 4. Miscellaneous identification products.
  
- B. Product Data: For each electrical identification product indicated.

**1.02 QUALITY ASSURANCE**

- A. Comply with ANSI A13.1.
- B. Comply with NFPA 70.
- C. Comply with 29 CFR 1910.144 and 29 CFR 1910.145.
- D. Comply with ANSI Z535.4 for safety signs and labels.
- E. Adhesive-attached labeling materials, including label stocks, laminating adhesives, and inks used by label printers, shall comply with UL 969.

**PART 2 - PRODUCTS**

**2.01 UNDERGROUND-LINE WARNING TAPE**

- A. Tape:
  - 1. Recommended by manufacturer for the method of installation and suitable to identify and locate underground electrical and special systems lines.
  - 2. Printing on tape shall be permanent and shall not be damaged by burial operations.
  - 3. Tape material and ink shall be chemically inert, and not subject to degrading when exposed to acids, alkalis, and other destructive substances commonly found in soils.
  
- B. Color and Printing:
  - 1. Comply with ANSI Z535.1 through ANSI Z535.5.
  - 2. Inscriptions for Orange-Colored Tapes: FIRE ALARM CABLE.

**2.02 WARNING LABELS AND SIGNS**

- A. Comply with NFPA 70 and 29 CFR 1910.145.
  
- B. Baked-Enamel Warning Signs:
  - 1. Preprinted aluminum signs, punched or drilled for fasteners, with colors, legend, and size required for application.
  - 2. 1/4 in (6.4 mm) grommets in corners for mounting.
  - 3. Nominal size, 7 in by 10 in (180 mm by 250 mm).



- C. Metal-Backed, Butyrate Warning Signs:
  - 1. Weather-resistant, nonfading, preprinted, cellulose-acetate butyrate signs with 0.0396 in (1 mm) galvanized-steel backing; and with colors, legend, and size required for application.
  - 2. 1/4 in (6.4 mm) grommets in corners for mounting.
  - 3. Nominal size, 10 in by 14 in (250 mm by 360 mm).

### **2.03 EQUIPMENT IDENTIFICATION LABELS**

- A. Self-Adhesive, Engraved, Laminated Acrylic or Melamine Label: Adhesive backed, with white letters on a black background. Minimum letter height shall be 3/8 in (10 mm).

### **2.04 MISCELLANEOUS IDENTIFICATION PRODUCTS**

- A. Fasteners for Labels and Signs: Self-tapping, stainless-steel screws or stainless-steel machine screws with nuts and flat and lock washers.

## **PART 3 - EXECUTION**

### **3.01 INSTALLATION**

- A. Location: Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.
- B. Apply identification devices to surfaces that require finish after completing finish work.
- C. Self-Adhesive Identification Products: Clean surfaces before application, using materials and methods recommended by manufacturer of identification device.
- D. Attach signs and plastic labels that are not self-adhesive type with mechanical fasteners appropriate to the location and substrate.

### **3.02 IDENTIFICATION SCHEDULE**

- A. Power-Circuit Conductor Identification, 600 V or Less: For conductors in vaults, pull and junction boxes, manholes, and handholes, use color-coding conductor tape to identify the phase.
  - 1. Color-Coding for Phase and Voltage Level] Identification, 600 V or Less: Use colors listed below for ungrounded service, feeder, and branch-circuit conductors.
    - a. Color shall be factory applied or field applied for sizes larger than # 8 AWG, if authorities having jurisdiction permit.
    - b. Colors for 208/120 V Circuits:
      - 1) Phase A: Black.
      - 2) Phase B: Red.
      - 3) Phase C: Blue.
    - c. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 in (150 mm) from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.
- B. Install instructional sign including the color-code for grounded and ungrounded conductors using adhesive-film-type labels.

- C. Workspace Indication: Install floor marking tape to show working clearances in the direction of access to live parts. Workspace shall be as required by NFPA 70 and 29 CFR 1926.403 unless otherwise indicated. Do not install at flush-mounted panelboards and similar equipment in finished spaces.
  
- D. Warning Labels for Indoor Cabinets, Boxes, and Enclosures for Power and Lighting: Baked-enamel warning signs.
  - 1. Comply with 29 CFR 1910.145.
  - 2. Identify system voltage with black letters on an orange background.
  - 3. Apply to exterior of door, cover, or other access.
  - 4. For equipment with multiple power or control sources, apply to door or cover of equipment including, but not limited to, the following:
    - a. Controls with external control power connections.
  
- E. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with schedules. Apply labels to fire alarm headend panels unless equipment is provided with its own identification.
  - 1. Labeling Instructions:
    - a. Indoor Equipment: Engraved, laminated acrylic or melamine label. Unless otherwise indicated, provide a single line of text with 1/2 in (13 mm) high letters on 1-1/2 in (38 mm) high label; where two lines of text are required, use labels 2 in (50 mm) high.
    - b. Elevated Components: Increase sizes of labels and letters to those appropriate for viewing from the floor.
    - c. Fasten labels with appropriate mechanical fasteners that do not change the NEMA or NRTL rating of the enclosure.

**END OF SECTION**

## SECTION 28 31 11

### ADDRESSABLE VOICE EVACUATION FIRE ALARM SYSTEM

#### PART 1 GENERAL

##### 1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

##### 1.02 SUMMARY

- A. Section Includes:
  1. Fire-alarm control unit.
  2. Manual fire-alarm boxes.
  3. System smoke detectors.
  4. Heat detectors.
  5. Notification appliances.
  6. Remote annunciator.
  7. Addressable interface device.

##### 1.03 DEFINITIONS

- A. LED: Light-emitting diode.
- B. NICET: National Institute for Certification in Engineering Technologies.

##### 1.04 SYSTEM DESCRIPTION

- A. Noncoded addressable evacuation system, with automatic sensitivity control of smoke detectors and multiplexed signal transmission, dedicated to fire-alarm service only.
- B. All fire alarm wiring shall be in conduit.
- C. Fire alarm system shall be designed and provided per latest adopted edition of all applicable codes (IFC, IBC, IMC, NEC) in effect for the code enforcement department having jurisdiction. In addition the Fire alarm System shall meet the Owner and Engineers Requirements that may require a system exceeding code requirements. Fire alarm system devices shall be installed per NFPA 72 and their listing requirements. All systems are to be ADA compliant. Contract documents (including mechanical/electrical control/fire alarm drawings and specifications) provide engineer's intent of the fire alarm system; however final number and type of devices/interconnections/circuitry/control relays/etc., shall be determined by the system designer and included in bid price.
- D. Contractor shall review and provide fire alarm devices, control functions, and associated control power per contract documents. "Contract documents" shall be defined to include all disciplines drawings, specifications, addendums, supplemental instructions, general conditions, and control shop drawings (which will not be available until construction is ongoing).

- E. Device locations and quantities shown on the drawings show minimum required, however, bidding Contractor shall review and add additional devices to meet code (without moving or deleting Audio/Visual devices already shown on the drawings). Audio/Visual devices shall remain where shown and previously coordinated with architect. When adding devices they shall be added and then the locations approved by the Architect for appearance in the space. Some inefficiency may occur adding devices instead of re-arranging devices shown on the drawings. Also providing devices shown on the drawings in addition to any other devices or system components required for a code compliant system may exceed standard code requirements. Bidding Contractor shall anticipate this in the bid.
- F. Where the system designer believes the contract documents are in conflict with adopted code, the system designer shall contact the engineer for review of the application prior to bid. If issue is not resolved before the bid then the Contractor shall include in the bid to provide a code required system in addition to the engineer intended system. Credit shall be issued back to the job for extra system components not used once the issue is resolved.
- G. A complete, code compliant, fire alarm system along with all fire alarm devices / interconnection / wiring shall be provided by the Fire Alarm System Contractor. Provide devices including smoke detectors for smoke fire dampers with required circuitry, duct detectors, and other similar fire alarm devices that on other projects may have been provided by another division.

#### 1.05 SUBMITTALS

- A. General Submittal Requirements
  - 1. Submittals shall be approved by authorities having jurisdiction prior to submitting them to Architect.
  - 2. It shall be the General Contractor and Fire Alarm Contractors responsibility to submit code compliant fire alarm system shop drawings, equipment cut sheets, and all other necessary information to Authorities Having Jurisdiction (AHJ) for review as may be requested or otherwise required to secure approval and to arrange pertinent field observations during construction. All submittals and approvals shall be provided in a timely manner and as required to meet all project schedules. Architect / Engineer shall be copied for review of device locations and general system conformance with specifications. A/E will not review submittals for code compliancy as the docents were sealed or certified by others.
  - 3. Shop Drawings shall be prepared by persons with the following qualifications:
    - a. Trained and certified by manufacturer in fire-alarm system design.
    - b. System design drawings shall be stamped by an independent, registered engineer not associated with the vendor or design team. Or the system design drawings shall be certified by a level 3 NICET designer.
    - c. Licensed or certified by authorities having jurisdiction.
- B. Product Data: For each type of product indicated.

- C. Shop Drawings: For fire-alarm system. Include plans, elevations, sections, details, and attachments to other work.
1. Comply with recommendations in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter in NFPA 72.
  2. Include voltage drop calculations for notification appliance circuits.
  3. Include battery-size calculations.
  4. Include performance parameters and installation details for each detector, verifying that each detector is listed for complete range of air velocity, temperature, and humidity possible when air-handling system is operating.
  5. Include plans, sections, and elevations of heating, ventilating, and air-conditioning ducts, drawn to scale and coordinating installation of duct smoke detectors and access to them. Show critical dimensions that relate to placement and support of sampling tubes, detector housing, and remote status and alarm indicators. Locate detectors according to manufacturer's written recommendations.
  6. Include floor plans to indicate final locations of each addressable device. Show size and route of cable and conduits.
  7. Include voice/alarm signaling-service equipment rack or console layout, grounding schematic, amplifier power calculation, and single-line connection diagram.
  8. Device locations and quantities shown on the drawings show minimum required, however, bidding Contractor shall review and add additional devices to meet code (without moving or deleting Audio/Visual devices already shown on the drawings). Audio/Visual devices shall remain where shown and previously coordinated with architect. When adding devices they shall be added and then the locations approved by the Architect for appearance in the space. Some inefficiencies may occur adding devices instead of re-arranging devices shown on the drawings. Also providing devices shown on the drawings in addition to any other devices or system components required for a code compliant system may exceed standard code requirements. Bidding Contractor shall anticipate this in the bid
  9. Confirm final room names / numbers with the Owner prior to providing final programming for names and locations shown on the alarm panel or transmitted to the remote monitoring.
- D. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
1. Comply with the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
  2. Provide "Record of Completion Documents" according to NFPA 72 article "Permanent Records" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter.
  3. Record copy of site-specific software.
  4. Provide "Maintenance, Inspection and Testing Records" according to NFPA 72 article of the same name and include the following:
    - a. Frequency of testing of installed components.
    - b. Frequency of inspection of installed components.
    - c. Requirements and recommendations related to results of maintenance.
    - d. Manufacturer's user training manuals.
  5. Manufacturer's required maintenance related to system warranty requirements.
  6. Abbreviated operating instructions for mounting at fire-alarm control unit.
  7. Copy of NFPA 25.
- E. Software and Firmware Operational Documentation:

1. Software operating and upgrade manuals.
  2. Program Software Backup: On magnetic media or compact disk, complete with data files.
  3. Device address list.
  4. Printout of software application.
  5. As-built show drawings / system.
- F. Printed and scanned close out materials listed above shall be contained on a CD containing device listing and as-built drawings located in a lockable box located next to the fire alarm control panel. Provide lockable box sized as required.

#### 1.06 QUALITY ASSURANCE

- A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.
- B. Installer Qualifications: Installation shall be supervised by personnel certified by NICET as fire-alarm Level II technician.
- C. Source Limitations for Fire-Alarm System and Components: Obtain fire-alarm system from single source from single manufacturer.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

#### 1.07 SOFTWARE SERVICE AGREEMENT

- A. Comply with UL 864.
- B. Technical Support: Beginning with Substantial Completion, provide software support for two years.
- C. Upgrade Service: Update software to latest version at Project completion. Install and program software upgrades that become available within two years from date of Substantial Completion. Upgrading software shall include operating system.

#### 1.08 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  1. Smoke Detectors, Heat Detectors and Flame Detectors: Quantity equal to five percent of amount of each type installed, but no fewer than 1 unit of each type.
  2. Detector Bases: Quantity equal to five percent of amount of each type installed, but no fewer than 1 unit of each type.
  3. Keys and Tools: One extra set for access to locked and tamperproofed components.
  4. Audible and Visual Notification Appliances: five percent of each type installed, but no fewer than 1 unit of each type.

## **PART 2      PRODUCTS**

### **2.01    MANUFACTURERS**

- A.    Manufacturers: Subject to compliance with requirements, provide products by one of the following. Any system provided shall be non-proprietary.
  - 1.      Notifier, EST-3, Firetrol,

### **2.02    SYSTEMS OPERATIONAL DESCRIPTION**

- A.    Fire-alarm signal initiation shall be by one or more of the following devices:
  - 1.      Manual stations.
  - 2.      Heat detectors.
  - 3.      Flame detectors.
  - 4.      Smoke detectors.
  - 5.      Verified automatic alarm operation of smoke detectors.
  - 6.      Automatic sprinkler system water flow.
  - 7.      Sprinkler Tamper switch.
- B.    Fire-alarm signal shall initiate the following actions:
  - 1.      Continuously operate alarm notification appliances.
  - 2.      Identify alarm at fire-alarm control unit and remote annunciator.
  - 3.      Transmit an alarm signal to the remote alarm receiving station.
  - 4.      Activate voice/alarm communication system.
  - 5.      Close smoke dampers in air ducts of designated air-conditioning duct systems.
  - 6.      Record events in the system memory.
- C.    Supervisory signal initiation shall be by one or more of the following devices and actions:
  - 1.      Valve supervisory switch.
- D.    System trouble signal initiation shall be by one or more of the following devices and actions:
  - 1.      Open circuits, shorts, and grounds in designated circuits.
  - 2.      Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
  - 3.      Loss of primary power at fire-alarm control unit.
  - 4.      Ground or a single break in fire-alarm control unit internal circuits.
  - 5.      Abnormal ac voltage at fire-alarm control unit.
  - 6.      Break in standby battery circuitry.
  - 7.      Failure of battery charging.
  - 8.      Abnormal position of any switch at fire-alarm control unit or annunciator.
- E.    System Trouble and Supervisory Signal Actions: Initiate notification appliance and annunciate at fire-alarm control unit and remote annunciators.

### **2.03    FIRE-ALARM CONTROL UNIT**

- A.    General Requirements for Fire-Alarm Control Unit:
  - 1.      Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864 and listed and labeled by an NRTL.

- a. System software and programs shall be held in flash electrically erasable programmable read-only memory (EEPROM), retaining the information through failure of primary and secondary power supplies.
    - b. Include a real-time clock for time annotation of events on the event recorder and printer.
  - 2. Addressable initiation devices that communicate device identity and status.
    - a. Smoke sensors shall additionally communicate sensitivity setting and allow for adjustment of sensitivity at fire-alarm control unit.
    - b. Temperature sensors shall additionally test for and communicate the sensitivity range of the device.
    - c. Addressable control circuits for operation of mechanical equipment.
    - d. Batteries shall be located only in conditioned spaces. If the fire alarm panel contains the batteries and the panel is located in an unconditioned space, such as an exterior fire riser room, building cooling shall be provided in the riser room or batteries shall be remotely located within a conditioned space. Owner will approve location of remote batteries to assure easy access to service.
- B. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.
  - 1. Annunciator and Display: Liquid-crystal type.
  - 2. Keypad: Arranged to permit entry and execution of programming, display, and control commands
- C. Circuits:
  - 1. Initiating Device, Notification Appliance, and Signaling Line Circuits: NFPA 72, Class B.
    - a. Initiating Device Circuits: Style D-
    - b. Notification Appliance Circuits: Style Z.
    - c. Signaling Line Circuits: Style 6.
    - d. Install no more than 80% of capacity of addressable devices on each signaling line circuit.
- D. Smoke-Alarm Verification:
  - 1. Initiate audible and visible indication of an "alarm-verification" signal at fire-alarm control unit.
  - 2. Activate an NRTL-listed and -approved "alarm-verification" sequence at fire-alarm control unit and detector.
  - 3. Sound general alarm if the alarm is verified.
  - 4. Cancel fire-alarm control unit indication and system reset if the alarm is not verified.
- E. Notification Appliance Circuit: Operation shall sound in a Temporal Code.
- F. Voice/Alarm Signaling Service: Central emergency communication system with redundant microphones, preamplifiers, amplifiers, and tone generators provided as a special module that is part of fire-alarm control unit.
  - 1. Indicated number of alarm channels for automatic, simultaneous transmission of different announcements to different zones or for manual transmission of announcements by use of the central-control microphone. Amplifiers shall comply with UL 1711 and be listed by an NRTL.
    - a. Allow the application of and evacuation signal to indicated number of zones and, at same time, allow voice paging to the other zones selectively or in any combination.



- b. Programmable tone and message sequence selection.
    - c. Standard digitally recorded messages for "Evacuation" and "All Clear."
    - d. Generate tones to be sequenced with audio messages of type recommended by NFPA 72 and that are compatible with tone patterns of notification appliance circuits of fire-alarm control unit.
  - 2. Status Annunciator: Indicate the status of various voice/alarm speaker zones and the status of firefighters' two-way telephone communication zones.
  - 3. Preamplifiers, amplifiers, and tone generators shall automatically transfer to backup units, on primary equipment failure.
- G. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station.
- H. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory and digital alarm communicator transmitters shall be powered by 24-V dc source.
- 1. Alarm current draw of entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.
- I. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch. System shall operate under secondary power for 24 hours of supervisory current and 5 minutes of alarm condition.
- 1. Batteries: Sealed, valve-regulated, recombinant lead acid.

## 2.04 MANUAL FIRE-ALARM BOXES

- A. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38. Boxes shall be finished in red with molded, raised-letter operating instructions in contrasting color; shall show visible indication of operation; and shall be mounted on recessed outlet box. If indicated as surface mounted, provide manufacturer's surface back box.
- 1. Double-action mechanism requiring two actions to initiate an alarm; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.
  - 2. Station Reset: Key- or wrench-operated switch.

## 2.05 SYSTEM SMOKE DETECTORS

- A. General Requirements for System Smoke Detectors:
- 1. Comply with UL 268; operating at 24-V dc, nominal.
  - 2. Detectors shall be two wire type.
  - 3. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to fire-alarm control unit.
  - 4. Base Mounting: Detector and associated electronic components shall be mounted in a twist-lock module that connects to a fixed base.
  - 5. Integral Visual-Indicating Light: LED type indicating detector has operated.
  - 6. Remote Control: Unless otherwise indicated, detectors shall be analog-addressable type, individually monitored at fire-alarm control unit for calibration, sensitivity, and alarm condition and individually adjustable for sensitivity by fire-alarm control unit.
    - a. Rate-of-rise temperature characteristic shall be selectable at fire-alarm control unit for 15 or 20 deg F per minute.
    - b. Fixed-temperature sensing shall be independent of rate-of-rise sensing and shall be settable at fire-alarm control unit to operate at 135 or 155 deg F.

- c. Provide multiple levels of detection sensitivity for each sensor.
- B. Photoelectric Smoke Detectors:
- 1. Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.
  - 2. An operator at fire-alarm control unit, having the designated access level, shall be able to manually access the following for each detector:
    - a. Primary status.
    - b. Device type.
    - c. Present average value.
    - d. Present sensitivity selected.
    - e. Sensor range (normal, dirty, etc.).

## 2.06 NOTIFICATION APPLIANCES

- A. General Requirements for Notification Appliances: Connected to notification appliance signal circuits, zoned as indicated, equipped for mounting as indicated and with screw terminals for system connections.
- 1. Combination Devices: Factory-integrated audible and visible devices in a single-mounting assembly, equipped for mounting as indicated and with screw terminals for system connections.
- B. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 92 dBA, measured 10 feet from the horn, using the coded signal prescribed in UL 464 test protocol.
- C. Voice/Tone Notification Appliances:
- 1. Appliances shall comply with UL 1480 and shall be listed and labeled by an NRTL.
  - 2. High-Range Units: Rated 2 to 15 W.
  - 3. Low-Range Units: Rated 1 to 2 W.
  - 4. Mounting: Flush.
  - 5. Matching Transformers: Tap range matched to acoustical environment of speaker location.
  - 6. Mounting Faceplate: Factory finished, white.

## 2.07 ADDRESSABLE INTERFACE DEVICE

- A. Description: Microelectronic monitor module, NRTL listed for use in providing a system address for alarm-initiating devices for wired applications with normally open contacts.
- B. Integral Relay: Capable of providing a direct signal to elevator controller to initiate elevator recall or to circuit-breaker shunt trip for power shutdown. See drawings for connection.

## 2.08 2.13 DEVICE COLOR

- A. Color of fire alarm devices (red or white) to be determined by architect during submittal review of fire alarm floor plans.

- B. Horn and/or strobes shall be rectangular in shape.

### **PART 3 EXECUTION**

#### **3.01 EQUIPMENT INSTALLATION**

- A. Comply with NFPA 72 for installation of fire-alarm equipment.
- B. Equipment Mounting: Install fire-alarm control unit with tops of cabinets not more than 72 inches above the finished floor.
- C. Equipment Mounting: Install fire-alarm control unit on finished floor with tops of cabinets not more than 72 inches above the finished floor.
- D. Smoke- or Heat-Detector Spacing:
  - 1. Comply with NFPA 72, "Smoke-Sensing Fire Detectors" Section in the "Initiating Devices" Chapter, for smoke-detector spacing.
  - 2. Comply with NFPA 72, "Heat-Sensing Fire Detectors" Section in the "Initiating Devices" Chapter, for heat-detector spacing.
  - 3. Smooth ceiling spacing shall not exceed 30 feet.
  - 4. Spacing of detectors for irregular areas, for irregular ceiling construction, and for high ceiling areas shall be determined according to Appendix A or Appendix B in NFPA 72.
  - 5. HVAC: Locate detectors not closer than 3 feet from air-supply diffuser or return-air opening.
  - 6. Lighting Fixtures: Locate detectors not closer than 12 inches from any part of a lighting fixture.
- E. Audible Alarm-Indicating Devices: Install per NFPA 72 requirements
- F. Visible Alarm-Indicating Devices: Install per NFPA 72 requirements.
- G. Device Location-Indicating Lights: Locate in public space near the device they monitor.
- H. Fire-Alarm Control Unit: Surface mounted, with tops of cabinets not more than 72 inches above the finished floor.

#### **3.02 CONNECTIONS**

- A. Make addressable connections with a supervised interface device to the following devices and systems. Install the interface device less than 3 feet from the device controlled. Make an addressable confirmation connection when such feedback is available at the device or system being controlled.
  - 1. Supervisory connections at valve supervisory switches.

#### **3.03 IDENTIFICATION**

- A. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Division 26 Section "Identification for Electrical Systems."

- B. Fire Alarm Annunciator plaque at FACP: Provide Permanently affixed floor plan(s) map, depicting all of the initiating devices, (CAD generated, appropriately sized drawing) which are affixed and oriented according to the applicable FAAP and FACP locations. Plaque shall clearly indicate which way is up (i.e. top of floor plan is away from the location and user)(North East South or West.)
- C. Install framed instructions in a location visible from fire-alarm control unit.

### 3.04 GROUNDING

- A. Ground fire-alarm control unit and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to fire-alarm control unit.

### 3.05 FIELD QUALITY CONTROL

- A. Field tests shall be witnessed by authorities having jurisdiction (AHJ).
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- C. Perform tests and inspections.
  - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- D. Tests and Inspections:
  - 1. Visual Inspection: Conduct visual inspection prior to testing.
    - a. Inspection shall be based on completed Record Drawings and system documentation that is required by NFPA 72 in its "Completion Documents, Preparation" Table in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter.
    - b. Comply with "Visual Inspection Frequencies" Table in the "Inspection" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72; retain the "Initial/Reacceptance" column and list only the installed components.
  - 2. System Testing: Comply with "Test Methods" Table in the "Testing" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
  - 3. Test audible appliances for the public operating mode according to manufacturer's written instructions. Perform the test using a portable sound-level meter complying with Type 2 requirements in ANSI S1.4.
  - 4. Test audible appliances for the private operating mode according to manufacturer's written instructions.
  - 5. Test visible appliances for the public operating mode according to manufacturer's written instructions.  
Test fire alarm system with any other system, i.e. fire sprinkler, kitchen hood, air handling shut down, etc. Contractor to arrange for architect/electrical engineer/mechanical engineer and a representative of their respective system to be present to witness and accept their interface is operating correctly. Mechanical engineer to deliver air handling shut down certifications and provide copied to the Fire Marsahll.
  - 6. Factory-authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" Section of the "Fundamentals of

Fire Alarm Systems" Chapter in NFPA 72 and the "Inspection and Testing Form" in the "Records" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.

- E. Reacceptance Testing: Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.
- F. Fire-alarm system will be considered defective if it does not pass tests and inspections.
- G. Prepare test and inspection reports.
- H. Maintenance Test and Inspection: Owner or owner's representative shall perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.
- I. Annual Test and Inspection: One year after date of Substantial Completion, owner or owner's representative shall test fire-alarm system complying with visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.

### 3.06 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to operate the fire-alarm system. Allow two sessions on different days of 4 hours for this training.

### 3.07 WARRANTY

- A. The contractor shall warranty all materials, installation and workmanship for one year from date of acceptance, unless otherwise specified. A copy of the manufacturer's warranty shall be provided with close-out documentation and included with the operation and installation manuals.
- B. The System Supplier shall maintain a service organization with adequate spare parts stock within 75 miles of the installation. Any defects that render the system inoperative shall be repaired within 24 hours of the owner notifying the contractor.
- C. Warrantee shall not be affected if the Owner chooses not to enter into a maintenance / monitoring contract with the installing vendor/contractor. There shall be no cap on liability if the Owner chooses not to enter into a maintenance contract with the installing vendor/contractor.

END OF SECTION