

**ADDENDUM #3**

ISSUED BY EDiS COMPANY

110 S. POPLAR STREET, WILMINGTON, DE 19801

**Bids will be received until 3:00 PM on Friday May 27, 2016 at 1798 Limestone Road, Wilmington, DE.**

NOTICE: Attach this addendum to the Project Manual for this project. It modifies and becomes a part of the Contract Documents. Work for materials not specifically mentioned herein are to be as described in the main body of the specifications and as shown on the Drawings. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**SPECIFICATION REVISIONS:**

- a.) Section 000115 List of Drawings – Replace in its entirety with new section annotated Addendum #3 25 May 2016.
- b.) Section 011100 Summary of Work – Replace in its entirety with new section annotated Addendum #3 25 May 2016.

**DRAWING REVISIONS:**

**Electrical Drawings:**

- a.) E9.6 First Floor Electrical Plan – Alternate #1 Replace in its entirety with Sheet E9.6 dated 25 May 2016. Note: Room 108 is to be a new speaker as per not E-1. Speakers in rooms 106A Principals Office, 106 Conference Room, & A1 Intervention Room are to hang and be re-installed in new ACT Ceiling at a later date.

**MISCELLANEOUS INFORMATION:**

- a.) Studio JAED – Panel Board Information – Dated 25 May 2016

SECTION 000115 LIST OF DRAWINGS

DRWG NO.	DRAWING NAME	BID PACK	ISSUE DATE	LATEST REV. DATE
G1.0	COVER SHEET	A	3/9/16	
G1.1	LIFE SAFETY PLAN	A	3/9/16	
A3.1	BASEMENT FLOOR PLAN	A	3/9/16	
A3.2	FIRST FLOOR PLAN	A	3/9/16	
A3.3	ALTERNATE 1 PLANS	A	3/9/16	5/13/16
A6.1	STOREFRONT ELEVATIONS - DOOR SCHEDULE	A	3/9/16	5/13/16
A6.2	ALTERNATE #1 DETAILS	A	3/9/16	5/13/16
M8.0	MECHANICAL COVER SHEET	A	3/9/16	
M8.1	FIRST FLOOR MECHANICAL PLAN	A	3/9/16	
M8.2	FIRST FLOOR MECHANICAL PLAN - ALTERNATE 1	A	3/9/16	
M8.3	ROOF MECHANICAL PLAN	A	3/9/16	
M8.4	ROOF MECHANICAL PLAN - ALTERNATE 1	A	3/9/16	
M8.5	MECHANICAL SCHEDULES	A	3/9/16	
E9.0	ELECTRICAL COVER SHEET	A	3/9/16	
E9.1	BASEMENT ELECTRICAL DEMOLITION PLAN	A	3/9/16	
E9.2	FIRST FLOOR ELECTRICAL DEMOLITION PLAN	A	3/9/16	
E9.3	SECOND FLOOR ELECTRICAL DEMOLITION PLAN	A	3/9/16	
E9.4	BASEMENT ELECTRICAL PLAN	A	3/9/16	
E9.5	FIRST FLOOR ELECTRICAL PLAN	A	3/9/16	
E9.6	FIRST FLOOR ELECTRICAL PLAN - ALTERNATE 1	A	3/9/16	5/25/16
E9.7	SECOND FLOOR ELECTRICAL PLAN	A	3/9/16	
E9.8	FIRST FLOOR ELECTRICAL LIGHTING PLAN	A	3/9/16	
E9.9	ROOF ELECTRICAL PLAN	A	3/9/16	
E9.10	ROOF ELECTRICAL PLAN - ALTERNATE 1	A	3/9/16	
E9.11	ELECTRICAL PANEL SCHEDULES & SINGLE LINE DIAGRAMS	A	3/9/16	
P10.0	PLUMBING COVER SHEET	A	3/9/16	
P10.1	BASEMENT PLUMBING DEMOLITION PLAN	A	3/9/16	
P10.2	FIRST FLOOR PLUMBING DEMOLITION PLAN	A	3/9/16	
P10.3	SECOND FLOOR PLUMBING DEMOLITION PLAN	A	3/9/16	

Red Clay Consolidated School District  
Capital Improvements  
Lewis Elementary School  
Bid Pack A  
January 25, 2016

Addendum #2  
23 May 2016

P10.4	BASEMENT PLUMBING PLAN	A	3/9/16	
P10.5	FIRST FLOOR PLUMBING PLAN	A	3/9/16	
P10.6	SECOND FLOOR PLUMBING PLAN	A	3/9/16	
P10.7	FIRST FLOOR PLUMBING PLAN ALTERNATE #1	A	3/9/16	5/13/16
FP11.1	FIRE PROTECTION PLAN - ALTERNATE #1	A	3/9/16	

END OF SECTION

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SECTION 011100 - SUMMARY OF WORK

1. RELATED DOCUMENTS

1.1 Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Sections, apply to work of this Section.

2. CONTRACTS

2.1 The work will be performed under separate prime contracts managed by the Construction Manager.

3. ALTERATIONS & COORDINATION

3.1 Contractor shall be responsible to coordinate their work with the work of others, including, but not limited to, the preparation of general coordination drawings, diagrams and schedules, and control of site utilization, from the beginning of activity, through project close-out and warranty periods.

4. KNOWLEDGE OF CONTRACT REQUIREMENTS

4.1 The Contractor and his Subcontractors, Sub-subcontractors and material men shall consult in detail the Contract Documents for instructions and requirements pertaining to the Work, and at his and their cost, shall provide all labor, materials, equipment and services necessary to furnish, install and complete the work in strict conformance with all provisions thereof.

4.2 The Contractor will be held to have examined the site of the Work prior to submitting his proposal and informed himself, his Subcontractors, Sub-subcontractors and material men of all existing conditions affecting the execution of the Work.

4.3 The Contractor will be held to have examined the Contract Documents and modifications thereto, as they may affect subdivisions of the Work and informed himself, his Subcontractors, Sub-subcontractors and material men of all conditions thereof affecting the execution of the Work.

4.4 The Scope of Work for the Contract is not necessarily limited to the description of each section of the Specifications and the illustrations shown on the Drawings. Include all minor items not expressly indicated in the Contract Documents, or as might be found necessary as a result of field conditions, in order to complete the Work as it is intended, without any gaps between the various subdivisions of work.

4.5 The Contractor will be held to be thoroughly familiar with all conditions affecting labor in the area of the Project including, but not limited to, Unions, incentive pay, procurements, living,

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parking and commuting conditions and to have informed his Subcontractors and Sub-subcontractors thereof.

5. CONTRACT DOCUMENTS INFORMATION

- 5.1 The Contract Documents are prepared in accordance with available information as to existing conditions and locations. If, during construction, conditions are revealed at variance with the Contract Documents, notify the Construction Manager immediately, but no more than three (3) days from the day the variance is first known. Failure to give timely notice shall operate to waive any claim Contractor might otherwise have for an adjustment to Contract Time or Sum as a consequence of such variance.
- 5.2 The Specifications determine the kinds and methods of installation of the various materials, the Drawings establish the quantities, dimensions and details of materials, the schedules on the Drawings give the location, type and extent of the materials.
- 5.3 Dimensions given on the Drawings govern scale measurements and large scale drawings govern small scale drawings, except as to anything omitted unless such omission is expressly noted on the large scale drawings.
- 5.4 The techniques or methods of specifying to record requirements varies throughout text, and may include "prescriptive", "open generic/descriptive", "compliance with standards", "performance", "proprietary", or a combination of these. The methods used for specifying one unit of work has no bearing on requirements for another unit of work.
- 5.5 Whenever a material, article or piece of equipment is referred to in the singular number in the Contract Documents, it shall be the same as referring to it in the plural. As many such materials, articles or pieces of equipment shall be provided as are required to complete the Work.
- 5.6 Whenever a material, article or piece of equipment is specified by reference to a governmental, trade association of similar standard, it shall comply with the requirements of the latest publication thereof and amendments thereto in effect on the bid date.
- 5.7 In addition to the requirements of the Contract Documents, Contractor's work shall also comply with applicable standards of the construction industry and those industry standards are made a part of Contract Documents by reference, as if copied directly into Contract Documents, or as if published copies were bound herein.
- 5.8 Where compliance with two (2) or more industry standards, contract requirements, or sets of requirements is specified, and overlapping of those different standards or requirements establishes different or conflicting minimums or levels of quality, then the most stringent requirements, which are generally recognized to be also the most costly, is intended and will

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be enforced, unless specifically detailed language written into the Contract Documents clearly indicates that a less stringent requirement is to be fulfilled. Refer apparently equal but different requirements, and uncertainties as to which level of quality is more stringent, to Architect for decision before proceeding.

5.9 Reference standards referenced directly in Contract Documents or by governing regulations have precedence over non-reference standards which are recognized in industry for applicability of work.

5.10 Contractor's bid is based on the complete set of Contract Documents including documents not specifically issued as part of the bid pack but referenced in same.

6. SCOPE OF WORK/GENERAL INFORMATION

6.1 A Scope of Work for each contract to be awarded on the project follows in this section. When a Contract has been awarded to a Contractor, the successful Contractor will be listed after the title of the Contract. When no Contract has yet been awarded, no Contractor's name will be listed. Previous Scopes of Work include addendum changes.

6.2 Contractor is responsible for performing the work listed in the Summary of Work for his contract. Contractor is also responsible for knowing the work that has been assigned to preceding contracts. No additional compensation or extension of time will be allowed a Contractor due to his ignorance of the work assigned to his Contract or to other contracts which may affect his work. The Contractor is responsible, however, for all items which are covered in the Specifications and Drawings relating to their Contract if not specifically mentioned in the Summary of Work.

6.3 The Construction Manager will provide on site a source for temporary electric, temporary water and portable sanitation facilities only. It is each Contractor's responsibility to make the necessary connections, including all material for temporary electric and water. Please note that utility charges for office trailers will be the responsibility of the individual Contractors.

6.4 A dumpster will be provided on site for free use by Contractors to dispose of non-hazardous, common, work-related refuse. Clean-up is the responsibility of each Contractor. Clean up shall be performed on a daily basis. Contractors not complying will be advised in writing and back charged for all costs associated with the clean up of their work.

6.5 Contractors are reminded that there are limited storage areas available on site. Off site storage will be the responsibility of each individual Contractor.

6.6 Office trailer permits off site will be the responsibility of each individual Contractor. On site Contractor's field offices, one (1) per Contractor, if required, will be located as directed by the Construction Manager.

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- 6.7 Contractor will be prepared to discuss and submit a detailed project schedule seven (7) days after receipt of Notice to Proceed and to begin its submittal process. The Project Schedule is an integral part of this contract. Certain construction sequences and priorities must take place in order to meet the target dates. Concentrated work periods will occur and each Contractor is responsible to staff the project as required by the current Construction Schedule or as directed by the Construction Manager. Contractor will cooperate with the Construction Manager in planning and meeting the required sequences of work and Project Schedule as periodically updated by the Construction Manager.
  - 6.8 All bids must include insurance limits in accordance with Article 11 of the Section 007300 SUPPLEMENTARY CONDITIONS.
  - 6.9 Hoisting, scaffolding and material handling is the responsibility of each Contractor, unless otherwise noted.
  - 6.10 Contractor will be responsible for layout of its own work. The Construction Manager will provide benchmark and layout of the building line.
  - 6.11 Contractor will be responsible to keep clean public roadways soiled by construction traffic on a daily basis. If cleaning is not done, the Construction Manager may perform the cleaning on an overtime basis and backcharge the Contractor responsible.
  - 6.12 Contractor Scopes of Work and Schedule are interrelated. Familiarity with each is required.
  - 6.13 The Construction Manager will provide testing services for soil, concrete and steel. Other testing as required by the Contract Documents will be in accordance with the technical specifications and/or the individual scope of work. Refer to Specification Section 004500 - QUALITY CONTROL.
  - 6.14 Safety is the responsibility of each individual Contractor. The project will be governed under the guidelines of OSHA.
  - 6.15 Inter-Contractor shop drawing distribution will be performed by the Construction Manager. Contractor is individually responsible for either coordinating his work with these distributed drawings or notifying the Construction Manager, in writing, of any discrepancies.
  - 6.16 Coordination with other trades will be required. The Contractor will be required to attend periodic coordination meetings with other trades where requirements, conflicts and coordination issues will be discussed and resolved. Attendance when requested will be mandatory. If inter-Contractor coordination is not satisfactorily performed, the conflicting Contractors shall mutually share the cost to relocate and/or reinstall their work.

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- 6.17 Contractor shall submit a schedule of values to the Construction Manager prior to the submission of their first invoice for approval on AIA G702/CMa, Application for Payment and G703, Continuation Sheet.
- 6.18 Contractor is expected to review and coordinate its Work with the complete set of Contract Documents, including all items noted as by his trade whether or not shown on that particular set of drawings. Documents are available at the site for review.
- 6.19 Contractor is responsible for obtaining all necessary permits required for his work, including street permits. Unless otherwise noted, building permit shall be secured by the Construction Manager. Any subcontractor who will be restricting access to street, right of way or adjacent property must notify the Construction Manager 48 hours in advance.
- 6.20 Contractor's License: Submit a copy of all business licenses required by local and state agencies.
- 6.21 Contractor shall absorb, without additional compensation, any and all costs of working beyond normal hours to maintain job progress in accordance with the current construction schedule.
- 6.22 No asbestos or PCB's in or on any material or equipment will be accepted or allowed on this project. All hazardous materials will be treated in accordance with all State and Federal regulations.
- 6.23 Daily clean up of the work is the responsibility of each individual Contractor which includes broom cleaning of their debris as required. Contractor will be individually back charged by the Construction Manager for clean up not satisfactorily performed by the Contractor.
- 6.24 In the event asbestos is uncovered, the Contractor shall notify the Construction Manager of the areas requiring removal of asbestos. The Construction Manager shall then coordinate the removal with the Owner.
- 6.25 This project is to be constructed adjacent to and in existing buildings. Contractor shall exercise all due precautions to minimize noise, air pollution and any other construction hazards which in any way would cause discomfort or danger to the occupants of the existing building in the area.
- 6.26 Existing mechanical, electrical, plumbing, sprinkler, medical gas, fire alarm, etc. systems will be shut off and locked out by the Owner as required by the Work. Tie-in's and modifications to those systems will be performed by the specific Contractor associated with the work as indicated in the Contract Documents. Re-energizing and re-start up of all systems should be performed by the Owner.

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- 6.27 The Safety Cable System shall not be altered or removed without a written request submitted to the Project Manager with a copy to the Field Manager. It shall be the responsibility of each and every Contractor that is removing or altering the Safety Cable System to maintain the fall protection safety provided by the safety cable and not leave the area unprotected. Each and every Contractor shall be responsible to re-install the Safety Cable System immediately after work is completed. Each and every Contractor shall be responsible to re-install the Safety Cable System in accordance to OSHA standards.
- 6.28 Normal work hours for this project are from 7:00 a.m. to 3:30 p.m. Any work to be performed outside of these hours must receive prior approval from the Construction Manager. Requests to work beyond normal work hours shall be submitted at least 48 hours prior.
- 6.29 Contractor is responsible for having a competent project superintendent/foreman on-site during all work performed under its contract.
- 6.30 In the event the Contractor has non-English speaking employees or subcontractors on the project, they shall have a superintendent or foreman on site, at all times, who speaks English and can communicate with Contractor's employees. Should the Contractor fail to meet this requirement, at any time, Construction Manager may direct all Work to stop until the proper supervision is on site. The Contractor will be responsible for maintaining the project work schedule and make up at its own expense, any delay to the Schedule resulting from the work stoppage.
- 6.31 Punch List Procedures: Contractor shall be given a copy of the punch list with his appropriate work identified. Contractor shall have nine (9) calendar work days to complete its punch list work. On the 10th day or as determined by the Construction Manager, the Construction Manager shall employ other contractors, as required, to complete any incomplete punch list work and retain from the appropriate Contractors retainage all costs incurred.
- 6.32 Contractor shall provide the necessary safety barricades and railings required to complete their work and comply with all OSHA, local code and contract specifications.
- 6.33 Temporary Protection: Provide temporary protection to ensure that no damages occur to existing or new finishes, building components, materials, equipment, etc. In addition, provide all approved signage and safety devices applicable to the referenced temporary protection. An approved temporary protection plan will be required before the initial start of the work.
- 6.34 Provide fine clean up on a daily basis. Fine cleaning will be defined as those means/methods utilized to ensure that all odors, dust, and debris will be non-existent within the project area at the end of each workday. In addition, means and methods shall be utilized that prevent the migration of odors, dust, debris, and excessive noise from migrating into non-working areas. An approved cleanup plan will be required before the initial start of the work

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CONTRACT NO. A-01 – CARPENTRY

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 00	Bidding and Contract Requirements
Division 01	General Requirements
Division 02	Existing Conditions
Division 03	Concrete
Division 04	Masonry
Division 06	Wood, Plastics, and Composites
Division 07	Thermal and Moisture Protection
Division 08	Openings
Division 09	Finishes
Division 10	Specialties
Division 12	Furnishings
Division 21	Fire Protection

B. This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide all labor, material, trucking, equipment, hoisting, scaffolding, power, temporary facilities, permit fees, supervision, layout, clean up, haul off, dumpsters, etc. for the complete performance of all demolition work for door modifications, restroom modifications, sink modifications, HVAC modifications, secure vestibule modifications.
2. Coordinate mechanical, plumbing and electrical demolition with the Mechanical and Electrical Contractors. Those Contractors will safe off items requiring removal or relocation. The Carpentry and General Work Contractor will remove the item (i.e. lights, fixtures, diffusers, ductwork) and dispose of in a proper receptacle. Removal of mechanical and electrical equipment (faucets, unit ventilators, air handlers, etc.) shall be provided by the Mechanical Contractor. This includes hoisting, rigging and required equipment to safely remove the equipment requiring demolition from its current location and dispose of same off site.
3. This Contractor shall notify the Construction Manager immediately if hazardous materials (i.e. asbestos, lead, PCB's, etc.) are uncovered. At that time, all work in the affected area will be stopped until proper removal can be completed by others (i.e. hazardous material abatement contractor).

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4. Coordination of this scope of work with abatement contractor. Abatement contractor to remove asbestos materials.
  5. This Contractor shall provide any and all "fire watch" personnel required due to the Contractor's cutting, burning, welding or other open flame activity.
  6. This Contractor shall submit proposed methods and operations of building demolition to the Owner, his representative or agents for review prior to the start of work, including a schedule of coordinating the shut off, capping and/or continuation of utility services as required.
  7. This Contractor shall visit the site of the proposed work, fully acquaint and familiarize himself with the conditions as they exist and the character of the operations to be carried out under the proposed Contract, and make such investigation as he may see fit so that he shall fully understand the facilities, physical conditions and restrictions affecting the work under the Contract. Claims for additional compensation and/or extensions of time because of Contractor's failure to familiarize himself with all conditions which might affect the work shall not be allowed.
  8. This Contractor, in the performance of the Work under his subcontractor, shall maintain all required means of egress from the existing buildings and alter such stairs, platforms and fire escapes as required to satisfy all agencies having jurisdiction.
  9. Contractor shall remove debris promptly. Any storage of debris will be coordinated with site superintendent.
  10. Removal, storage and reinstall of suspended ceiling tile necessary for this scope of work
  11. Removal, safe storage and reinstall of 2,000 sf of suspended ceiling tile in rooms 106A, 106, 105, A1, and part of Corridor 1. Scope of work to be coordinated with MEP subcontractors for Base Bid. Alt #1 shall include 3,200 sf of ceiling tile.
  12. Patch areas damaged by demolition, including areas damaged by other trades. Patch areas to match existing conditions.
  13. Provide Masonry as required to repair walls after demo from this scope of work. Damage by others will be identified by location and square feet, documented and submitted to Project Manager prior to repair .
  14. Provide all rough carpentry related to the interior of the building including blocking, wood nailers, etc. for the installation of fire extinguishers, doors, windows, toilet accessories, cabinets, toilet partitions, casework, millwork, etc. including fire treating, as required.

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15. Provide hollow metal and wood doors and frames, fire rated and non-fire-rated, all accessory materials including glazing, stops, astragals, silencers, door sweeps, thresholds, weather stripping, frame spreaders, primer and bituminous coating, sound ratings and other requirements as required.
  16. Provide finish hardware related to all doors (hollow metal, wood and aluminum). Include preparation taking caution to coordinate combined requirements for each type specified. Coordinate cylinder cores with Owner. Provide cylinders and keying, gasketing and weather stripping, thresholds, silencers and other accessories. Coordinate electrical/special system requirements with the Electrical Contractor.
  17. Provide aluminum-framed storefronts, aluminum windows, glazing, operating hardware, insect screens, operable sash weather stripping, flashing, metal trim, drip edge, etc. Provide field quality control testing as outlined.
  18. Provide fireproofing, both exposed and concealed.
  19. Provide Break Metal, Sheet Metal, Flashing and Trim
  20. Provide Joint Sealers for flashing, glazing, and non-like surface intersections under this scope of work.
  21. Provide Access Doors and Panels. (Assume 15 total).
  22. Provide gypsum board assemblies including insulation at new and modified construction. Provide demolition scar patches, opening infills, and other cutting and patching associated with the scope of this Contract.
  23. Patching and leveling of floor. Allow 200 SF for base bid and 400 SF for Alt #1.
  24. Provide VCT.
  25. Provide tiling as required to repair wall and floor tile after demo from this scope of work. Damage by others will be identified by location and square feet, documented and submitted to Project Manager prior to repair.
  26. Provide resilient flooring as required to repair wall and floor tile after demo from this scope of work. Damage by others will be identified by location and square feet, documented and submitted to Project Manager prior to repair.
  27. Provide carpeting as required to repair wall and floor tile after demo from this scope of work. Damage by others will be identified by location and square feet, documented and

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submitted to Project Manager prior to repair.

28. In rooms 208T and 207T paint all walls after patching from demo. Include touch-up after plumbing scope is complete.
29. Paint all doors, frames, walls in rooms A1, 104 Vestibule, 105 Reception Area, 106 Reception Desk, 107 Principal, 108 Assist. Principal, 109 Copy Area, 110 Toilet, 111 Storage, 112 Corridor, 113 Conference, 114 Classroom, and 500 SF in Corridor 1 for Alt. #1
30. Include relocation of 10 sprinkler heads in base bid to work around new HVAC. Include relocation of 30 sprinkler heads in alt. #1 for wall adjustments and new HVAC.
31. Provide one visual display board for Alternate #1
32. Provide pricing for Alternate # 1 (including room 103 classroom)
33. Provide pricing for Alternate # 2
34. Provide pricing for Alternate # 3
35. Provide Signage. Match existing signage. Provide 0 for base bid and 13 for Alt #1
36. Provide Roller Shades.
37. Provide Door Hardware.
38. Hoisting/scaffolding related to the work of this Contract
39. Caulk between the materials supplied under this section and the adjacent surfaces
40. Project start is estimated to be 6/10/16 and completion 8/15/16, any expediting of design, shop drawings, manufacturing, shipping, etc. Should be part of base bid.
41. Provide daily cleaning of this scope of work.
42. Provide cleaning of windows at end of project.
43. Provide Final Cleaning at end of project.
44. This Contractor shall include the following allowances in the Base Bid. Allowances to be used at the discretion of the Construction Manager. Unused portions of the allowance shall be returned to the Owner via change order.

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- a. \$5,000 allowance for replacement of toilet accessories
  - b. \$10,000 allowance for Acoustical Ceiling Tile, repair or replace
  - c. \$5,000 allowance for Painting
  - d. \$8,000 allowance for wall repair
  - e. \$8,000 allowance for Floor repair
  - f. \$5,000 allowance for overtime and or expediting

45. Provide pricing for all alternates as described in Section 012300-Alternates.

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CONTRACT NO. A-02 - MECHANICAL AND PLUMBING

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 01	General Requirements
Division 22	Plumbing
Division 23	HVAC
Division 26	Electrical (for reference and coordination)

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete mechanical, plumbing and piping system as indicated in the Contract Documents.
2. This Contractor shall be responsible to designate an individual within his organization, intimately familiar with this project and assigned on site, to act as the System Start-up Coordinator. This individual must be pre-approved by the Construction Manager. This individual's responsibilities shall include, but not be limited to, coordinating the start-up of all mechanical equipment, including the coordination between the Electrical Contractor, the Controls Contractor, and all testing, adjusting and balancing work. This individual shall report on a weekly basis, in written form, to the Construction Manager. These reports shall include a summary of current conditions including manufacturers' start-ups, systems' deficiencies noted to date and the remediation of same, coordination issues between trades, system interfacing and forecasting, as necessary to project the completion of each individual system within the building.
3. Provide safing off of and temporary protection of items requiring selective demolition. Coordinate this work with the Carpentry and General Work Contractor and the Electrical Contractor who will be providing the electrical/special system safing off and the removal of items as outlined. Mechanical equipment such as faucets, unit ventilators and air handlers will be demolition, removed and disposed of off site by the Mechanical Contractor. Extent of removal of ceilings, walls and other existing construction shall be closely coordinated by this Contractor with the Carpentry and General Work Contractor.
4. Provide complete piping, plumbing fixtures and trim.

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5. Provide plumbing insulation and covering.
  6. Provide domestic cold water, hot water and recirculating water piping. Complete flow balancing of entire domestic water, water return system.
  7. Provide plumbing system testing (domestic cold, hot and hot water return, gas piping and sanitary and condensate waste drainage piping) as indicated in the Contract Documents.
  8. Provide domestic hot water and hot water return system balancing as indicated in the Contract Documents.
  9. Provide HVAC system, including but not limited to rooftop units, heat pumps, unit ventilator, energy recovery ventilator, fan coils, electric heater, pumps, valves, louvers, screens, insulation and covering. Insulation and covering at supply ductwork, return ductwork and outside air intake and relief ductwork, vibration and sound insulation, piping systems and accessories.
  10. Provide complete insulated roof cap to provide a weather tight seal after unit AC-1 is removed. (Base Bid)
  11. Provide complete RTU-1, including a complete curb adapter unit. Alt #1
  12. Provide water treatment for cleaning and treatment of HVAC chilled water, hot water and steam system.
  13. Provide air distribution and accessories, Verify and coordinate work with the Electrical Contractor (and Fire Alarm vendor) for the locations and mounting of all duct smoke detectors – shown on the mechanical drawings for reference. Final locations determined on approved FA drawings. Mounting shall comply with NFPA. Coordinate damper size, location and type of damper with architectural drawings.
  14. Provide fans, terminal heating units, terminal heating and cooling equipment, air handling equipment. Coordinate power wiring and other requirements for HVAC equipment including the coordination of furnishing and installing motor starters as noted in the Contract Documents.
  15. Provide an extension of the existing controls and head end DDC system to control all HVAC Systems, associated components and accessories described in the Contract Documents. Coordinate with the Electrical Contractor for power requirements and wiring.
  16. Provide equipment bases and housekeeping pads.
  17. Provide pipe and equipment labeling and identification.

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18. Provide permits, testing and inspections.
  19. Provide testing and balancing of mechanical system.
  20. Provide sleeves for penetrations through wall, floors, roofs etc. including cutting, patching and fire safing.
  21. Provide hoisting, rigging and scaffolding required to perform the scope of this Contract.
  22. Provide sleeves for penetrations through wall, floors, roofs etc. including cutting, patching and fire safing.
  23. Provide louvers and vents related to HVAC operations.
  24. Provide gas piping and accessories .
  25. Provide piping enclosures.
  26. This Contractor shall include the following allowances in the Base Bid. Allowances to be used at the discretion of the Construction Manager. Unused portions of the allowance shall be returned to the Owner via change order.
    1. \$5,000 for miscellaneous mechanical or plumbing work.
    2. \$5,000 for plumbing or duct insulation.
    3. \$5,000 for equipment pads.
    4. \$5,000 for tie-in locations.
    5. \$5,000 for ductwork support.
    6. \$5,000 for roof patching.
  22. Provide pricing for Alternate # 1. (including room 103 classroom)
  23. Provide pricing for Alternate # 2.
  24. Provide pricing for Alternate # 3.
  25. Provide operation and maintenance manuals, attic stock, maintenance tools, demonstration and training.
  26. All warranties begin at overall project substantial completion. This project requires a two-year general warranty, in addition to the specific warranties required by the Contract Documents.

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CONTRACT NO. A-03 - ELECTRICAL

A. Work included in this contract consists of, but is not necessarily limited to, all labor, materials and equipment for:

- Technical Specification Sections:

Division 0	Bidding and Contract Requirements
Division 01	General Requirements
Division 22	Plumbing (for reference and coordination)
Division 23	HVAC (for reference and coordination)
Division 26	Electrical

This contract also includes, but is not necessarily limited to, all labor, materials and equipment for the following:

1. Provide a complete electrical system as indicated on the Contract Documents.
2. Provide safing off of items requiring selective demolition. Coordinate this work with the Carpentry and General Work Contractor and the Mechanical Contractor who will be providing the plumbing and HVAC system safing off and the removal of items as outlined. Extent of removal of ceilings, walls and other existing construction shall be closely coordinated by this Contractor with the Carpentry and General Work Contractor.
3. Provide removal of panel cover and breakers; disconnect incoming and outgoing feeders, and remove bus bars.
4. Disconnect and remove existing power wiring, disconnects and control wiring with conduit back to source panel completely.
5. Provide and install new bus bars into existing back box, reconnect incoming and outgoing feeders with extensions as required. Retain existing directories
6. Furnish and install new breakers, which are to replace existing in kind.
7. Provide new double-hinged cover.
8. Provide electrical identification and labeling.
9. Provide raceways, wires and cables, electrical boxes and fittings and wiring devices required for the scope of this Contract.

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10. Provide motor starters. Coordinate the design equipment characteristics with the Mechanical Contractors.
  11. Provide motor and circuit disconnects. Coordinate access, clearances and maintenance prior to installation to avoid conflicts.
  12. Provide overcurrent protective devices.
  13. Provide supporting devices.
  14. Provide feeder circuits and branch circuits.
  15. Provide temporary electric installation, maintenance and removal. Refer to Division 1, Specification Section 015113 - TEMPORARY ELECTRIC, for specific scope.
  16. Rough in and final connection and related work for equipment provided under other contracts (i.e., HVAC, sprinkler, motorized doors, etc.)
  17. Furnish duct smoke detectors. Verify and coordinate work with the Mechanical Contractor (and Fire Alarm vendor) for the locations and mounting of all duct smoke detectors – shown on the mechanical drawings for reference. Final locations determined on approved FA drawings. Mounting shall comply with NFPA.
  18. Provide sleeves for penetrations through wall, floors, roofs etc. including cutting, patching and fire safing.
  19. Provide hoisting, rigging and scaffolding required to perform the scope of this Contract.
  20. Provide rough-in and final connection and related work for equipment provided under other contracts (i.e. elevators, HVAC, sprinkler, motorized doors, etc.).
  21. Provide lighting fixtures.
  22. Provide electrical door hardware and associated wiring. Coordinate with Carpentry & General Work contractor through installation.
  23. Provide relocation of PA System Console & Clock System console.
  24. Relocated CCTV Monitor/System to new office as directed by owner.
  25. Provide 1 & 2-way ceiling mounted PA speaker to match existing where indicated on drawings. Connect to PA system and confirm proper operation with PA system.

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26. Provide pricing for Alternate No. 1 (including room 103 classroom)
  27. Provide pricing for Alternate No. 2
  28. Provide pricing for Alternate No. 3
  29. This Contractor shall include the following allowances in the Base Bid. Allowances to be used at the discretion of the Construction Manager. Unused portions of the allowance shall be returned to the Owner via change order.
    - a. \$10,000 for miscellaneous and unforeseen electrical work.
  30. Provide permits, testing and inspections.
  31. Provide operation and maintenance manuals, attic stock, maintenance tools, demonstration and training.
  32. All warranties begin at overall project substantial completion. This project requires a two-year general warranty, in addition to the specific warranties required by the Contract Documents.

RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	P3A
LOCATION:	2ND FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	480/277V
AMPACITY OF BUSBARS:	225A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	36
WALL OPENING DIMENSIONS:	40 1/4" H x 20" W x 5 5/8" D
BREAKER COMBINATIONS:	(6) 20A/IP + (2) 20A/3P + (6) 30 A/3P + (6) Spaces.



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	3L2A
LOCATION:	2ND FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	480/277V
AMPACITY OF BUSBARS:	100
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	12
WALL OPENING DIMENSIONS:	22" H x 20" W x 5 5/8" D
BREAKER COMBINATIONS:	(12) 20A/1P



25 May 2016

RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	3L1A
LOCATION:	2ND FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	208/120V
AMPACITY OF BUSBARS:	100
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	36
WALL OPENING DIMENSIONS:	34" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(34) 20A/1P + (1) 30A/2P



25 May 2016

RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	P3B
LOCATION:	2ND FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	480/277V
AMPACITY OF BUSBARS:	100A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	36
WALL OPENING DIMENSIONS:	40 1/4" H x 20" W x 5 5/8" D
BREAKER COMBINATIONS:	(6) 20A/IP + (8) 30A/3P + (6) Spaces.

# No Photo Available

25 May 2016

RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	2L2A
LOCATION:	1ST FLOOR
MFG / TYPE:	CULTER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	480/277
AMPACITY OF BUSBARS:	100A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	18
WALL OPENING DIMENSIONS:	28" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(10) 20A/1P + (8) SPACES



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	P2A
LOCATION:	1ST FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	480/277V
AMPACITY OF BUSBARS:	225A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	32
WALL OPENING DIMENSIONS:	40 1/8" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(9) 30A/3P + (10) Spaces.



25 May 2016

RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	2L1A
LOCATION:	1ST FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	208/120V
AMPACITY OF BUSBARS:	225A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	42
WALL OPENING DIMENSIONS:	40 1/8" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(35) 20A/1P + (2) 30A/1P + (2) 30 A/2P



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	2L3B
LOCATION:	1ST FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	SURFACE
VOLTAGE:	208/120V
AMPACITY OF BUSBARS:	100A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	54
WALL OPENING DIMENSIONS:	42 1/8" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(38) 20A/1P + (1) 100A/3P + (1) 20A/2P + (11) SPACES



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	2L3A-2 (Tied to adjacent panel, same designation)
LOCATION:	1ST FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	SURFACE
VOLTAGE:	480/277V
AMPACITY OF BUSBARS:	400A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	42
WALL OPENING DIMENSIONS:	66" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	- (8) 20A/1P - (3) 30A/3P - (1) 20A/3P (21) SPACES



25 May 2016

RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	2L3A-1 (Tied to adjacent panel, same designation)
LOCATION:	1ST FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	SURFACE
VOLTAGE:	480/277V
AMPACITY OF BUSBARS:	400A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	42
WALL OPENING DIMENSIONS:	66" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	- (17) 20A/1P - (1) 20A/3P - (3) 30A/3P - (1) 50A/3P (1) 60A/3P



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	2L1B-A
LOCATION:	COMP LAB
MFG / TYPE:	SQ D QO LOAD CENTER
RECESSED OR SURFACE:	SURFACE
VOLTAGE:	208/120V
AMPACITY OF BUSBARS:	100A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	24
WALL OPENING DIMENSIONS:	20 15/16" H x 14 1/4" W x 3 3/4" D
BREAKER COMBINATIONS:	- (12) 20A/1P - (1) 20A/2P (10) SPACES



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	2L1B
LOCATION:	1ST FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	208/120
AMPACITY OF BUSBARS:	100A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	30
WALL OPENING DIMENSIONS:	34 1/8" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(30) 20A/1P



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	2L2B
LOCATION:	1ST FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	480/277
AMPACITY OF BUSBARS:	100A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	18
WALL OPENING DIMENSIONS:	28" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(10) 20A/1P (8) SPACES



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	P2C
LOCATION:	1ST FLOOR
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	480/277
AMPACITY OF BUSBARS:	400A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	42
WALL OPENING DIMENSIONS:	46" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(1) 20A/1P (1) 20A/3P (4) 30A/3P (1) 40A/3P (23) SPACES



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	1L1A
LOCATION:	BASEMENT
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	SURFACE
VOLTAGE:	208/120V
AMPACITY OF BUSBARS:	100A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	42
WALL OPENING DIMENSIONS:	40 1/8" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(40) 20A/1P (1) 50A/2P



RED CLAY SCHOOL DISTRICT

SCHOOL: LEWIS  
PANEL DESIGNATION: 1L2A  
LOCATION: CAFETERIA  
MFG / TYPE: CUTLER HAMMER  
RECESSED OR SURFACE: RECESSED  
VOLTAGE: 480/277  
AMPACITY OF BUSBARS: 100A  
MAIN BREAKER OR MAIN LUGS: MLO  
CIRCUIT SLOTS 18  
WALL OPENING DIMENSIONS: 28" H x 20" W x 5 3/4" D  
BREAKER COMBINATIONS: (8) 20A/1P  
(10) SPACES



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	P1A
LOCATION:	CAFETERIA
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	480/277
AMPACITY OF BUSBARS:	400A
MAIN BREAKER OR MAIN LUGS:	MLO
WALL OPENING DIMENSIONS:	84 1/4" H x 30 1/8" W x 8 1/2" D
BREAKER COMBINATIONS:	- (2) 100A/3P - (4) 70A/3P - (2) 40A/3P - (1) 50A/3P - (2) 30A/3P - (10) 20A/3P - (6) 20A/3P



25 May 2016

RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	KP
LOCATION:	KITCHEN
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	208/120
AMPACITY OF BUSBARS:	225A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	42
WALL OPENING DIMENSIONS:	40 1/8" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	- (11) 20A/1P - (6) 20A/3P - (1) 30A/1P - (2) 40A/2P



RED CLAY SCHOOL DISTRICT

SCHOOL:	LEWIS
PANEL DESIGNATION:	KP
LOCATION:	KITCHEN
MFG / TYPE:	CUTLER HAMMER
RECESSED OR SURFACE:	RECESSED
VOLTAGE:	208/120V
AMPACITY OF BUSBARS:	225A
MAIN BREAKER OR MAIN LUGS:	MLO
CIRCUIT SLOTS	42
WALL OPENING DIMENSIONS:	40 1/8" H x 20" W x 5 3/4" D
BREAKER COMBINATIONS:	(15) 20A/1P (4) 20A/3P (1) 30A/3P

