Project:

A NEW CAFETERIA ADDITION TO THE
UNION HILL SCHOOL FOR THE
MORGAN COUNTY BOARD OF EDUCATION
SOMERVILLE, ALABAMA

MCKEE PROJECT NO. 18-237
ALABAMA BUILDING COMMISSION NO. 2019075

The following changes and/or substitutions to the plans and specifications are hereby made a part of
same and are incorporated in full force as part of the contract.

Bidders shall acknowledge receipt of this Addendum in writing on his Proposal Form.

A3.1 GENERAL MODIFICATIONS:

A. Refer to the Advertisement for Bids and General Contractor Prequalification, Change Bid Date
to May 7, 2019 as follows:

Sealed proposals will be received only from previously qualified General Contractors by
Morgan County Schools located at 235 Highway 67 South, Decatur, Alabama 35603, as
follows:

Proposal “A”- McKee Project No. 18-227 New AG Shop / Home Economics Building &
Alterations to Existing Band Building for Falkville High School for the Morgan County Board of
Education Decatur, Alabama. Sealed proposal will be received until 2:00 p.m., on Tuesday
May 7, 2019, and held until 3:00 p.m., and then read aloud.

Proposal “B”- McKee Project No. 18-237 New Cafeteria Addition to the Union Hill School
for the Morgan County Board of Education Decatur, Alabama. Sealed proposal will be received
until 2:30 p.m., on Tuesday May 7, 2019, and held until 3:00 p.m., and then read aloud.

Proposal “C”- Combination Bid of Proposal “A” and Proposal “B” as identified above.
Sealed proposal will be received until 3:00 p.m., on Tuesday May 7, 2019, and then read
aloud.

A3.2 SPECIFICATION MODIFICATIONS:

A. See the attached Section 09510, Acoustical Ceilings (Revised 4.23.19), herein.

A. See the attached Section 01010, Scope of the Work (Revised 4.23.19), herein.

A3.3 DRAWING MODIFICATIONS:

A. See the attached Drawings as follows:

Sheet E2.1 (dated 4.23.19)
Sheet E3.1 (dated 4.23.19)
B3.1 CLARIFICATIONS & RESPONSES:

A. See the following responses to RFI questions received from Contractor’s

Question:
Acoustical ceiling in Room A104 is drawn as clouds please specify edge trim. B/A6.2: Room A100 side should go outside wall to outside wall. How far should Room A101 extend?

Answer: (1) See this Addendum #3 for revised specification section 09510 Acoustical Ceilings for edge trim specification. (2) See Drawing G1.1 for entire area of rated ceiling furr down.

Question:
Addendum #1 requested a combination bid of both Falkville AG Shop and Union Hill Cafeteria proposals. Addendum #2 only requested a proposal for each separately. Is a combination proposal still being requested and if so, will there be a specific proposal form issued to include both projects? Will there be a third bid bond required for the combination proposal?

Answer: (1) See this addendum #3 for requested sealed proposals. (2) Bids must be submitted on proposal form provided in the project manual and copies thereof for multiple proposals. (3) Contractor is to identify the Advertised Proposal information on the proposal form blank area where marked “Work”. (4) Each separate sealed proposal must include a separate bid bond for that particular proposal.

Question:
This project is to be submitted at the same time as the Falkville High School AG Building project but as a separate proposal. Does each proposal require it’s own bid bond?

Answer: Each separate sealed proposal must include a separate bid bond for that particular proposal.

Question:
Drawing details of Connector A100 as shown on all Architectural Drawings does not match the details shown on all Electrical Drawings. Please advise the correct detail.

Answer: See attached revised electrical drawings in this addendum #3.

Question:
Sheet A6.5 Section A has a note stating “Concrete Footings (See Structural)”. There is no detail in the Structural drawings. Please provide a detail.

Answer: See attached revised structural drawings in this addendum #3.

B. Clarification: Septic tank permit filed by owner’s representative shall be available prior to construction.

END OF ADDENDUM THREE
PART 1 – GENERAL

RELATED DOCUMENTS AND GENERAL INFORMATION:

Drawings and general provisions of the Contract including General and Supplementary Conditions and other Division 1 specification sections apply to the work of this section.

SUMMARY:

This Section includes the following:

1. Type of the Contract.
3. Work Under This Contract
4. Project Work Identification.
5. Owner-furnished products.
7. Contractor Use of premises.
8. Work Under Other Contracts.
13. Protection of Work in Place.
15. Owner's occupancy requirements.

Related Sections include the following:

1. Division 1 Section 01500 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

TYPE OF CONTRACT:

1. Construction Contract (ABC Form C-5, August 2001).

BUILDING COMMISSION USER FEES:


1. The General Contractor shall include in his Base Bid Proposal all “Permit” and any “Inspection” fees addressed as stated in this memorandum.
2. **Do not** include the “Plan Review Fee” or the “Contract Administration Fee” in your Proposal.

**WORK UNDER THIS CONTRACT:**

**Construction Phasing:**

**Utility Phasing work to be performed in the following order:**

1. **New Septic Tank and New Grease Trap** -
   Install new septic tank and New Grease trap at the same time. Connect new septic tank to existing buildings per Plumbing drawings and fill in area at existing septic tank. Install new grease trap at same time of new septic tank install. Connect existing kitchen to new grease trap. Remove existing grease trap. Infill as required. All work is to be coordinated with owner and approved at least 7-days in advance. Work shall be done during non-school hours and be completed no later than August 2, 2019.

2. **Electrical** -
   Phase 1 - The underground electrical work indicated on sheet E1.1 has to be performed as soon as the contractor gets on site to reroute electrical lines to make way for the new building and maintain power to existing buildings to remain. This includes the setting of the new pad mounted transformers and sectionalizing cabinet. Providing all underground primary and underground communications duct banks. Providing new underground secondary feeds to the existing band building and shop building. Existing band building, shop building, and existing transformer to be refeed will require outages. All outages shall be coordinated with owner and approved at least 7-days in advance. Outages shall be done during non-school hours.
   Phase 2 - Work required for Cafeteria.

3. **Temporary Propane Tank** -
   Install temporary propane tank, connect to existing kitchen and have ready for owner’s use. All work is to be coordinated with owner and approved at least 7-days in advance. Work shall be done during non-school hours and be completed no later than August 2, 2019.

4. Kitchen deliveries shall be dropped off at new dock location once existing parking lot area is demolished. Coordinate with owner, Volkert and Architect an area for access during construction.

5. **Fire Sprinkler Vault and Water Line** -
   Installation of new fire sprinkler vault and new water line is to be Coordinated with Arab Water Authority.

6. **Existing Cooler and Freezer Relocation** -
   Relocate existing cooler and freezer (with compressors) after completion of new kitchen. All work is to be coordinated with owner and approved at least 7-days in advance. Work shall be done during non-school hours and be completed no later than August 2, 2019.
General Phasing Work:

   Existing elevated exit walkway –  
   Install New egress pathway prior to enclosure of new connector to existing exit egress 
   pathway. **Note:** All existing exits to remain accessible to a public way during 
   construction.

Completion Schedule:

1. This project shall be completed within 180 calendar days.
2. Demolition of existing cafeteria building to be completed within 30 calendar days after 
   completion of New Cafeteria building.
3. Owner reserves Seven (7) working days to move contents from old building to new 
   building.

PROJECT / WORK IDENTIFICATION:

**General:** Project name is as indicated in the Advertisement For Bids and as shown on the 
Contract Documents prepared by McKee & Associates, 631 S. Hull Street Montgomery, Alabama 
36104.

**Contract Documents:** Indicate the work of the Contract and related requirements and conditions 
that have an impact on the project. Related requirements and conditions that are indicated on the 
Contract Documents include, but are not limited to the following:

1. Existing site conditions and restrictions on use of the site including ingress and egress to 
   the site.
2. Grading operations at the site.
3. The Contractor shall be responsible to secure the site during the execution of the work and 
   provide proof of insurance including but not limited to General Liability, W/C, Auto, 
   Equipment, Etc.

**Summary by References:** Work of the Contract can be summarized by references to the 
Contract, General Conditions, Supplementary Conditions, the Project Manual, Technical 
Specification Sections, Drawings, Addenda and modifications to the Contract Documents 
issued subsequent to the initial printing of this Project Manual and the Drawings, and 
including but not necessarily limited to, printed material referenced by any of the above. It 
is recognized that the Work of the Contract is also unavoidably affected or influenced by 
governing regulations, natural phenomenon including weather conditions, and other forces 
outside the contract documents.

**OWNER FURNISHED PRODUCTS:** NONE

**SUPERVISION:**

**Supervision:** The Contractor shall provide adequate supervision of the project to ensure proper 
supervision for all work.
CONTRACTOR USE OF PREMISES:

**General:** During the entire cleanup period the Contractor shall have the exclusive use of the premises for cleanup operations, including full use of the site as shown on the Drawings.

Limitations of exclusive use of the site:

a. Confine operations at the site to the areas permitted under the Contract. Portions of the site beyond areas on which work is indicated are not to be disturbed. Conform to applicable rules and regulations affecting the work while engaged in project performance. See site plan for ingress and egress to the site, or if not indicated, same shall be as designated by the Architect.

b. Keep existing public roads, driveways and entrances serving the premises clear and available at all times. Do not use these areas for parking or storage of materials. Remove dirt, mud, debris, etc., from site, sidewalks, streets, and public right-of-way as it occurs.

c. Do not unreasonably encumber the site with materials or equipment. Confine stockpiling of materials and location of storage sheds and or designated storage areas as indicated.

d. Lock automotive type vehicles, such as passenger cars and trucks and other mechanized or motorized construction equipment, when parked and unattended, so as to prevent unauthorized use. Do not leave such vehicles or equipment unattended with the motor running or the ignition key in place.

e. The Owner, and their representatives, the Architect and their Consultants, as well as authorities having jurisdiction will require site accessibility for inspections, observations, and perhaps other purposes, related to the planned new construction. All Contractors shall assist in such accessibility, to at least the point of providing and maintaining accessible dry paths to work in progress.

f. Furnish and install by contractor temporary barricades, fencing, etc., as indicated or otherwise required, to restrict pedestrian and vehicular traffic from construction operations, including in part, Owner's staff, the public, students, children, and residents of the adjacent residential neighborhoods.

g. Construction operations shall not affect in any manner, the on-going operations of the Owner, immediately adjacent facilities, adjacent property owners or businesses, or others. Refer to Division 1 Section "Special Conditions" for additional information and requirements regarding coordination with Owner's activities, etc.

h. Construction equipment shall not come in contact with or swing over existing facilities to remain, public areas, occupied buildings, right-of-ways, etc., which are to remain.

i. All contractors and their employees shall limit any discussion of the Work of this project to the Owner's representatives named in the front of this Project Manual, Consultants employed, inspecting authorities with jurisdiction, and the Architect. In no instance shall
j. Parking on-site, if any, shall be limited to the "staging areas" indicated on the Drawings, or if not indicated, as mutually agreed between the Architect and Contractor at the Pre-Construction Conference.

k. Smoking or other use of tobacco products shall not be permitted within the structure of the Building, Owner's facilities or on roofs.

l. The use or presence of alcohol and/or other debilitating substances shall not be permitted in the construction of the building and or on the project site.

m. Firearms and/or other weapons shall not be permitted on the project site.

n. The Contractor shall furnish necessary temporary toilets for all work forces on the job site.

PART 2 - SCOPE OF THE WORK:

The Scope of the Work of the Contract is meant to be viewed as a successor to the General Special Conditions of the Contract. Should any discrepancy or ambiguity be noted, the Scope of the Work of the Contract shall apply and the General Special Conditions of the Contract shall defer to Scope of the Work of the Contract Documents. The scope of the work shall be taken in its entirety by all contractors. In signing the contract all contractors have read and understand that the Scope of the Work and the General Special Conditions are taken in their entirety.

The term "Design Consultant" shall be construed to mean "Architect".

The terms "Owner" shall mean "The Morgan County Board of Education".

WORK UNDER OTHER CONTRACTS

General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract. Coordinate the Work of this Contract with work performed under separate contracts.

Concurrent Work: Owner will award separate contract(s) for the following construction operations at the Project site. Those operations will be conducted simultaneously with work under this Contract.

1. Work done by others or by Owner.
   a. Any items noted N.I.C.
   b. Construction Testing as defined in Section 01400 Quality Requirements.

BUILDING AND SITE CONSTRUCTION:

1. The Contractor shall maintain the entire site, provide dust control and keep the streets clean at all times and as directed by the Architect. The Contractor shall call for and be
responsible for the locating of all utilities prior to start of work. Use extreme care when working in close proximity to the existing water lines to prevent movement and damage to the water lines.

2. The Contractor shall install and or replace all fencing including furnish and install all temporary fencing as required for all work including safety barriers, signs, traffic directional signals, temporary stripping, flagman, temporary road plates and any temporary roads around any obstruction and or work being constructed. The Contractor shall make all provisions to keep the public and or temporary access roads open during the duration of the work.

3. The Contractor shall maintain & level, all temporary roads and temporary lay down and storage areas using same stone base material. Roads must have no potholes, dips, or rises and provide access to and from the site and other locations on site. The Contractor shall maintain the temporary roads used to move material on the site. Temporary roads are existing and the Contractor shall maintain these temporary roads throughout the duration of construction activity while Contractor is onsite.

GENERAL ISSUES:

1. The Contractor shall be responsible for their own on-site safety requirements within the site per OSHA regulations.

2. Only an approved company owned and insured vehicle shall be allowed on to the construction site. Vehicles shall be clearly marked and identified with the company logo and or name.

TEMPORARY ELECTRICAL POWER AND JOBSITE UTILITIES:

1. The Contractor is responsible for the all costs associated with temporary electrical requirements for performance of the work. The Contractor shall be responsible for the all costs associated with temporary water required for the performance of the work. The Contractor is responsible for all other utility costs as required for the performance of the work.

SITE SECURITY / INSURANCE REQUIREMENTS:

1. The Contractor shall have care custody and control of the site. Contractor shall be responsible for the replacement of their material, equipment and any loss of such. Contractor shall be responsible for securing all material and equipment. If there is a loss and or damage of material and equipment, that loss shall go against the Contractor's insurance coverage.

PROTECTION OF WORK IN PLACE:

1. The Contractor shall protect all completed work and any rework shall be the responsibility of the contractor at no additional cost to the owner.
WORK RESTRICTIONS

Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Architect and Owner not less than two days in advance of the proposed utility interruptions.

2. Do not proceed with utility interruptions without Architect's and Owner's written permission.

Nonsmoking Building: Smoking and smokeless tobacco will not be permitted within the new construction after floor slabs are poured.

OWNER’S OCCUPANCY REQUIREMENTS

Owner Occupancy: Owner will occupy adjacent parking lots during entire construction period. Cooperate with Owner during construction operations adjacent to or near the existing building and parking to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits, unless otherwise indicated.

Maintain access to existing walkways and other adjacent occupied or used facilities. Do not close or obstruct walkways or other occupied or used facilities without written permission from Owner and authorities having jurisdiction. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

Owner Occupancy of Completed Areas of Construction: Owner reserves the right to place and install equipment in completed areas of building, before Substantial Completion, provided such does not interfere with completion of the Work. Such placement of equipment shall not constitute acceptance of the total Work.

SPECIFICATION FORMATS AND CONVENTIONS

Specification Format: The Specifications are organized into Divisions and Sections using the 16-division format numbering system.

1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.

Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Abbreviated Language: Language used in the Specifications another Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate.
Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.

2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
   a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

END OF SECTION
SECTION 09510 - ACOUSTICAL CEILINGS (Revised 4.23.19)

PART 1 – GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections apply to work of this section.

SUMMARY:

Extent of acoustical ceilings specified in this section include the following:

1. Acoustical lay-in panel ceilings in an exposed suspended metal grid system.

SUBMITTALS:

Product Data: Submit manufacturer’s technical data for each type of acoustical ceiling unit and suspension system required.

1. Full size sample of each acoustical panel type, pattern and color.
2. Set of 12” long samples of exposed runners and moldings for each color and system type required.

Certificates: Submit certificates from manufacturers of acoustical ceiling units and suspension systems attesting that their products comply with specification requirements.

QUALITY ASSURANCE:

Fire Performance Characteristics: Provide acoustical ceiling components that are identical to those tested for the following fire performance characteristics, according to ASTM test method indicated, by UL or other testing and inspecting agency acceptable to authorities having jurisdiction. Identify acoustical ceiling components with appropriate marking of applicable testing and inspecting agency.

1. Surface Burning Characteristics: As follows, tested per ASTM E 84.
2. Flame Spread: 25 or less.
3. Smoke Developed: 50 or less.

Fire Resistance Ratings: As indicated by reference to design designation in UL “Fire Resistance Directory” for floor, roof or beam assemblies in which acoustical ceilings function as a fire protective membrane; tested per ASTM E 119. Provide protection materials for lighting fixtures and air ducts to comply with requirements indicated for rated assembly.

Coordination of Work: Coordinate layout and installation of acoustical ceiling units and suspension system components with other work supported by, or penetrating through, ceilings, including light fixtures, HVAC equipment, fire-suppression system components (if any), and partition system (if any).

Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.
DELIVERY, STORAGE AND HANDLING:

Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination or other causes.

Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.

Handle acoustical ceiling units carefully to avoid chipping edges or damaging units in any way.

PROJECT CONDITIONS:

Space Enclosures: Do not install interior acoustical ceilings until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete and ambient conditions of temperature and humidity will be continuously maintained at values near those indicated for final occupancy.

PART 2 – PRODUCTS

MANUFACTURERS:

The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

1. USG Interiors, LLC. (Basis of Design) | www.usg.com | Ph: 1.800.950.3839
2. Certainteed Corporation | www.certainteed.com | Ph: 1.800.233.8990

Equal products of other manufacturers may be used in the work provide such products have been approved, by the Architect, not less than Ten (10) days prior to scheduled bid opening.

GENERAL ACOUSTICAL CEILING TILE UNITS

Standard for Acoustical Ceiling Tile Units: Provide manufacturer's standard units of configuration indicated which are prepared for mounting method designated and which comply with FS SS-S-118 requirements, including those indicated by reference to type, form, pattern, grade (NRC or NIC’ as applicable), light reflectance coefficient (LR), edge detail, and joint detail (if any).

1. Mounting Method for Measuring NRC: No. 7 (mechanically mounted on special metal support), FS SS-S-118; or Type E-400 mounting as per ASTM E 795.

Sound Attenuation Performance: Provide acoustical ceiling units with ratings for ceiling sound transmission class (STC) of range indicated as determined according to AMA 1-II "Ceiling Sound Transmission Test by Two-Room Method" with ceilings continuous at partitions and supported by a metal suspension system of type appropriate for ceiling unit of configuration indicated (concealed for tile, exposed for panels).
Colors, Textures and Patterns: Provide products to match appearance characteristics indicated or, if not otherwise indicated, as selected by Architect from manufacturer's standard colors, surface textures, and patterns available for acoustical ceiling units and exposed metal suspension system members of quality designated.

ACOUSTICAL TILES

A. Acoustical Panel Type: Vinyl Covered Ceiling Panels

1. USG “Sheetrock Brand Clean Room Lay-In Gypsum Panels”.
2. Classification: Provide ceiling panels complying with ASTM E 1264 for type, form and pattern as follows:
   a. Type XX, mineral based with membrane faced overlay. Vinyl face, back and sides covered gypsum ceiling panels.
   b. Form: Not Applicable
   c. Pattern: Smooth
4. LR: Not less than 0.77
5. NRC: Not less than: N/A
6. CAC: Not less than 35
7. Edge / Joint Detail:
   a. Square (Typical if not indicated on drawings).
   b. SLT Beveled Reveal (Only if indicated on drawings).
8. Panel Thickness: 1/2 inch (12.7 mm).
9. Modular Size: 24 by 24 inches (610 by 610 mm).
10. Recycled Content: 80%.
12. Clean room performance: Acceptable in applications up to Class 100 Clean rooms.
13. ClimaPlus™ 30 year limited system warranty. Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.
14. Suspension Grid/Width: USG Donn ZXLA; 15/16”.

B. Acoustical Panel Type: Lay-In Acoustical Ceiling Panels

1. USG “Radar” Acoustical Panels
2. Classification: Provide ceiling panels complying with ASTM E 1264 for type, form and pattern as follows:
   a. Type III, mineral base with painted finish
   b. Form: 2, water felted.
   c. Pattern: Perforated, small holes and light texture.
4. LR: Not less than 0.84
5. NRC: Not less than 0.45
6. CAC: Not less than 33
7. Edge / Joint Detail:
   a. SQ Square (Typical if not indicated on drawings).
   b. SLT Beveled Reveal (Only if indicated on drawings).
8. Panel Thickness: 5/8 inch (15.8mm).
9. Modular Size: 24 by 24 inches (600 by 600 mm).
10. Recycled Content: Up to 59%.
11. Panel Features:
   a. Biobased product that is USDA certified.
   b. Abuse Resistant, high durability and can be cleaned easily with a soft brush & vacuumed.
12. ClimaPlus™ 30 year limited system warranty. Contains a broad spectrum antimicrobial additive on the face and back of the panel that provides resistance against the growth of mold and mildew. Includes sag resistance performance.
13. Suspension Grid/Width: USG Donn DX; 15/16" (24mm).

GENERAL METAL SUSPENSION SYSTEMS

Standard for Metal Suspension Systems: Provide metal suspension systems of type, structural classification and finish indicated which comply with applicable STM C 635 requirements.

Finishes and Colors: Provide manufacturer's standard factory applied finish for type of system indicated. For exposed suspension members and accessories with painted finish, provide color indicated or, if not otherwise indicated, as selected by Architect from manufacturer's full range of standard colors.

  1. White.

Attachment Devices: Size for 5 times design load indicated in ASTM C 635, Table 1, Direct Hung.

Hanger Wire: Galvanized carbon steel wire, ASTM A 641, soft temper, prestretched, Class 1 coating, sized so that stress at 3- times hanger design load (ASTM C 635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gage.

Edge Moldings and Trim: Formed steel section; exposed surfaces prefinished to match suspension system components.

  1. Provide shadow molding for edges equal to MS174; 9/16" thick exposed flange; 3/8" x 3/8" reveal; 7/8" vertical flange.
  2. At penetrations of ceiling install manufacturer's standard molding which fits with type of edge detail and suspension system indicated.
  3. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

Hold-Down/Impact Clips: Where indicated provide manufacturer's standard impact clip system design to absorb impact forces against lay-in panels. Install hold down clips at all ceiling panels within 10'-0" of and exterior door.

METAL SUSPENSION SYSTEMS

A. USG Donn Brand ZXLA 15/16” Acoustical Suspension System

  1. Double-web design; Intermediate Duty as defined by ASTM C635. Bottom face with 15/16" (24mm) exposed flange with pre-painted aluminum cap; cross tee holes and hanger wire holes at 6 in oc; integral reversible splices, commercial quality pretreated and painted, exposed surfaces prefinished in manufacturer's enhanced
corrosion resistant polyester paint finish. Cross tees; roll-formed into double-web design with rectangular bulb; 15/16 (24mm) in exposed flange with pre-painted aluminum cap; Stainless Steel clips clenched to the web Main tees and cross tees shall be positively locked yet shall be removable without the use of tools.

3. Tee Profile: 15/16" (24mm) wide.
4. Color: White

B. USG Donn Brand DX/DXL 15/16” Acoustical Suspension System

1. Narrow Face, Capped, Double Web, Cold Rolled Steel Suspension System: Main and Cross Tees as defined by ASTM C635, commercial quality pretreated and painted hot-dipped galvanized cold-rolled steel, exposed surfaces prefinished in manufacturer’s standard corrosion resistant enamel paint finish
3. Tee Profile: Narrow Face 15/16” (22mm) wide.
4. Color: White

DECORATIVE MOULDING & TRIM

A. USG Compässo™ Standard Metal Edge Moldings and Trim

1. Where indicated, provide decorative metal edge moulding and trim. The trim will feature smooth visible face with return edges. The non-visible face shall include flanges to accommodate Compässo™ Standard attachment clips that attach trim to adjacent ceiling grid. At vertical butt joints between adjacent trim pieces, utilize Compässo™ standard splice clips. Prefabricated corner pieces accommodate inwards and outwards 90 degree corners. [At 10” and 12” Compässo™ standard trim include diagonal bracing with L9 angle and attach to top clip slot with additional Compässo™ clip].

2. Basis of Design: USG Interiors, LLC, “USG COMPÄSSO™ STANDARD TRIM”.
   a. Trim Height: 6” (152 mm).
   b. Trim Depth: 9/16” (14 mm).
   c. Trim Length: 10'-0” (3048 mm).
   d. Color: Standard flat white 050.

3. Compässo Standard Trim:
   a. Face width as indicated on drawings otherwise as required
   b. 9/16" horizontal legs with hems formed for attachment to the Compässo Standard mounting clip.
   c. Commercial quality cold-rolled 24-gauge steel
   d. Factory finished in (baked enamel paint finish) Standard flat white 050.
   e. Splice plate: Steel in finish to match trim pans; formed for snap-fit into pan ends.
   f. Attachment clips: hot-dipped galvanized steel in (galvanized finish) (finish to match pans) formed for snap-fit into pan and attached to suspension system members.
   g. 90° corner trim pieces: To match Compässo trim.
   h.
SEALANT

Acoustical Sealant: Resilient, non-staining, non-shrinking, non-hardening, non-skinning, non-drying, non-sag sealant intended for interior sealing of concealed construction joints.

Manufacturers: The following manufacturers' products have been used to establish minimum standards for materials, workmanship and function:

1. BA-98; Pecora Corp.
2. Tremco Acoustical Sealant; Tremco
3. Equal products of other manufacturers may be used in the work provided such products have been approved by the Architect, not less than Ten (10) days prior to schedule bid opening.

PART 3 – EXECUTION

PREPARATION:

Coordination: Furnish layouts for inserts, clips, or other supports required to be installed by other trades for support of acoustical ceilings.

1. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Coordinate ceiling layout with lighting layout. Avoid use of less-than-half width units at borders, and comply with reflected ceiling plans.

INSTALLATION:

General: Install materials in accordance with manufacturer's printed instructions, and to comply with governing regulations, fire-resistance rating requirements as indicated, and CISCA standards applicable to work.

Arrange acoustical units and orient directionally-patterned units (if any) in manner shown by reflected ceiling plans.

Install suspension systems to comply with ASTM C 636, with hangers supported only from building structural members. Locate hangers within 6" inches from each end and spaced 4'-0" along each carrying channel or direct-hung runner, unless otherwise indicated, leveling to tolerance of 1/8" n 12'-0".

Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye-screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperature.

Install hangers plumb and free from contact with insulation or other objects within ceiling plenum which are not part of supporting structural or ceiling suspension system.
Splay hangers only where required to miss obstructions and offset resulting horizontal force by bracing, counter-splaying or other equally effective means.

**Install edge moldings** of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.

**Sealant Bed:** Apply continuous ribbon of acoustical sealant, concealed on back of vertical leg before installing moldings.

**Screw-attached moldings** to substrate at intervals not over 16" o.c. and not more than 3" from ends, leveling with ceiling suspension system to tolerance of 1/8" in 12'-0". Miter corners accurately and connect securely.

**Install acoustical panels** in coordination with suspension system with edges concealed by support of suspension members. Scribe and cut panels to fit accurately at borders and at penetrations.

**Install hold-down clips** on panels, within 10'-0" of exterior door openings, where panels are other than horizontal, and in areas where required by governing regulations or for fire-resistance ratings; space as recommended by panel manufacturer, unless otherwise indicated or required.

**EXTRA STOCK:**

Deliver stock of maintenance materials to Owner. Furnish maintenance materials from same manufactured lot as materials installed and enclosed in protective packaging with appropriate identifying labels.

1. **Ceiling Tile:** Furnish not less than one box for each type, color, pattern and size installed.

**END OF SECTION**
NEW CAFETERIA ADDITION
TO UNION HILL SCHOOL
FOR THE MORGAN COUNTY BOARD OF EDUCATION
SOMERVILLE, ALABAMA
03-07-19

FLOOR PLAN - LIGHTING
SCALE: 1/8"=1'-0"

GENERAL NOTES:

PHOTOCONTROL OF LIGHTING:

ROOM CONTROLLER NOTES:

DETAIL - TYPICAL OPERATION OF TIME SWITCH/PHOTO-CELL/CONTACTOR

SHEET NOTES:

No Scale

KEY PLAN

E2.1

04-23-19
NEW CAFETERIA ADDITION
TO UNION HILL SCHOOL
FOR THE
MORGAN COUNTY BOARD OF EDUCATION
SOMERVILLE, ALABAMA
03-07-19

FLOOR PLAN - MECHANICAL POWER
SCALE: 1/8"=1'-0"

GENERAL EQUIPMENT SCHEDULE PART "A"

GENERAL NOTES:
1. COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH NEC AND ALL LOCAL CODES. COORDINATION SHALL BE DONE PRIOR TO BIDS AND ACCOUNTED FOR IN THE CONTRACTOR'S BID PRICE.
2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
3. ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
4. "NF" - NON-FUSED
5. "F" - FUSED
6. "TS" MANUAL MOTOR STARTER WITH THERMAL OVERLOAD ("W" - WEATHERPROOF) ("30-AMP" - 30-AMP RATED)
7. PROVIDE INTERCONNECTING RELAY SUCH THAT FAN IS CONTROLLED BY LIGHTING.
8. "WP" - WEATHERPROOF ENCLOSURE.
9. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS AND LOCATIONS FOR ALL CIRCULATING PUMPS AND TIME CLOCKS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
10. "*" ASTRICK MEANS PROVIDE SHUNT TRIP CIRCUIT BREAKER.

NOTES:

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<th>EQUIPMENT</th>
<th>VOLTAGE/PHASE</th>
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NOTES:
1. FINISH FLOOR ELEVATION = REF. DATUM 0'-0".
2. SEE S0.1 FOR GENERAL NOTES AND TYPICAL SECTIONS.
3. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND COORDINATE ALL TOP OF FOOTING ELEVATIONS SHOWN ON DRAWINGS WITH FINAL GRADING PLAN. MINIMUM COVER FROM TOP OF FOOTING TO OUTSIDE FINISH GRADE SHALL BE 1'-0".
5. COORDINATE ALL SLOPES, STEPS, RECESSES, AND PLUMBING FIXTURES WITH CONTRACT DRAWINGS.