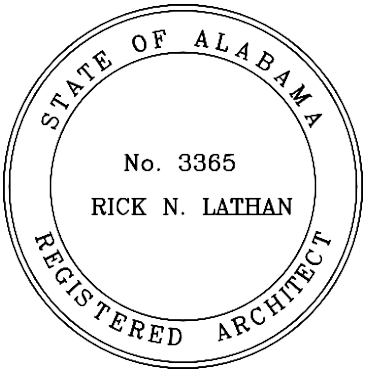


LATHAN ARCHITECTS

300 CHASE PARK SOUTH • SUITE 200 • HOOVER, ALABAMA 35244
205-988-9112

**ADDENDUM NO. 2**
**NEW GYMNASIUM FOR BARKLEY BRIDGE ELEMENTARY SCHOOL**
**Architect Job No. 24-107**
**April 23, 2025**
**DCM # 2025141**

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**BIDS DUE:**
**Thursday, May 1, 2025, until**
**2:00 p.m., local time, held at**
**Hartselle City Board of Education**
**305 College Street, NE**
**Hartselle, AL 35640**

**MANDATORY PRE-BID MEETING:**
**Thursday, April 24, 2025, at**
**10:00 a.m., local time,**
**Barkley Bridge Elementary School**
**2333 Barkley Bridge Road SW**
**Hartselle, AL 35640**

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The Plans and Specifications are here by amended. The following supersedes all contrary and/or conflicting information and is made part of the contract documents.

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## GENERAL

1. The Proposal Form attachment – **Unit Prices** has been revised, the attached is to be used in lieu of previous version.

## SPECIFICATIONS

1. **SECTION 01020 – ALLOWANCES REVISE AS FOLLOWS:**

   Allowance No. 1: Include a contingency allowance of $250,000.00 for the Owner's use throughout the project for unforeseen conditions as directed by the Architect.

   Allowance No. 2: Include a Contingency Allowance of $75,000.00 under base bid for additional Landscaping and Irrigation not otherwise indicated, as directed by the Architect. Sod and other landscaping indicated in civil and Architectural drawings shall be included in base bid.

   Allowance No. 3: Include a contingency allowance of $30,000.00 to provide Fire Department Radio Transponder.

Allowance No. 4: Include a contingency allowance of $75,000.00 as an AID -to-Construction for utility fees.

Allowance No. 5: Include a quantity allowance under Base Bid for providing an additional 2 ton of in-place medium – heavy structural steel system construction, not otherwise indicated, to be shop fabricated, primed, and installed at the direction of the architect. This steel may be used throughout the project at multiple locations of any divisible quantity denomination or location, including but not limited to: lintels, beams, columns, shelf angles, edge angles, bent plates, rebar, joists, etc.

Allowance No. 6: Include a quantity allowance under Base Bid for providing an additional 1 ton of in-place miscellaneous steel system construction, not otherwise indicated, to be fabricated, primed, and installed at the direction of the architect. This steel may be used throughout the project at multiple locations of any divisible quantity denomination or location, including but not limited to: finished railings, clip angles, embeds, stair components, etc.

Allowance No. 7: Include a quantity allowance of 4,500 cubic yards of replacement of unsuitable soils with compacted structural fill. This Base Bid grading shall include the required cutting and filling of the existing grade to the proposed subgrade elevation. Onsite Geotechnical engineer shall determine if unsuitable soils are present. Unit price is provided for the addition to or deletion from this assumed amount. Refer to Section 02300.

Allowance No. 8: Include a contingency allowance of $30,000.00 for additional camera/security devices. Wiring, conduit, and all installation of devices shall be included in base bid.

**ADD** Allowance No. 9: Include a quantity allowance of 400 cubic yards for trench rock as a part of the Base Bid. The unit prices for "rock – in trenches" shall include all cost associated with the removal and placement of rock in utility or storm trenches. Placement of trench rock shall be per the project specifications Unit Prices are being provided for the addition to and deletion from the contract Base Bid as required. Rock quantities shall be verified in the field by the geotechnical engineer.

**ADD** Allowance No. 10: Include a contingency allowance of $50,000.00 for fencing, post, foundations, gates, etc. to be directed by the Owner and Architect. The fencing shown on Civil shall be included in Base Bid.

2. **SECTION 08411 – ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS: DELETE IN ITS ENTIRETY.**

3. **SECTION 08420 – ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS: ADD ATTACHED IN ITS ENTIRETY.**

## DRAWINGS

1. Sheet **E1.1** – Revised to include fixture types P1 and P2 from the Lighting Fixture Schedule. Revised to remove fixture types D and DEM from the Lighting Fixture Schedule.

2. Sheet **E3.1** – Revised to add circuits LPG-9,10 to Relay Panel LCP-G.

3. Sheet **E4.1** – Revised to show circuits to feed receptacle.

**PROPOSAL FORM ATTACHMENT**

UNIT PRICES

For certain items of **credit or extra work**, if required, the undersigned proposes UNIT PRICES as follows:

| | | |
|---|---|---|
| EARTH EXCAVATION | General | $_____/per cu.yd. |
| | In Trenches | $_____/per cu. yd. |
| EARTH FILL | General | $_____/per cu. yd. |
| UNDERCUTTING & REPLACEMENT OF UNSUITABLE SOILS | | $_____/per cu. yd. |
| ROCK EXCAVATION | General | $ _____/per cu.yd. |
| | In Trenches | $ _____/per cu. yd. |

Note: All grading shown on the drawings shall be included in the Base Bid as Unclassified to required subgrade elevations. This Base Bid grading shall include the required cutting and filling of the existing grade to the proposed subgrade elevation. Onsite Geotechnical engineer shall determine if unsuitable soils are present.

Refer to SECTION 02300 - EARTHWORK for additional information.

Note: Costs for profit and overhead shall be included in Unit Prices.

Note: Unit Prices are provided for the addition to or deletion from the contract Base Bid.

BIDDER (to be signed by an Officer of the Company)

_____ by_____
(Name/Title) (Legal Signature)

WITNESS (to the above signature)

_____ by_____
(Name/Title) (Legal Signature)

## 1.0 - GENERAL

### 1.1 Related Documents

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

### 1.2 Summary

A. Section Includes: Kawneer Aluminum Entrances and Storefronts, glass and glazing, hardware and components.

1. Type of Aluminum Entrance:
   500 Swing Door; Wide stile, 5" (127 mm) vertical face dimension, 1-3/4" (44.5 mm) depth, high traffic applications.

2. Type of Storefront:
   Thermal Barrier (Trifab® VG 451T):
   Kawneer IsoLock® Thermal Break with a 1/4" (6.4 mm) separation

B. Related Sections:
1. Section 07910 “Joint Sealants” for joint sealants installed as part of the aluminum storefront system.
2. Section 08710 - Finish Hardware
3. Section 08810 - Glass and Glazing

### 1.3 Definitions

A. Definitions: For fenestration industry standard terminology and definitions refer to American Architectural Manufactures Association (AAMA) – AAMA Glossary (AAMA AG).

### 1.4 Performance Requirements

A. General Performance: Aluminum-framed entrance and storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction:
1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
   a. Basic Wind Speed (MPH): (120)
   b. Importance Factor (I, II, III): (1.15)
   c. Exposure Category B

B. Entrance System Performance Requirements:
1. Wind loads: Provide entrance system; include anchorage, capable of withstanding wind load design pressures based on the 2021 International Building Code.

2. Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft2 (0.3 l/s · m2) at a static air pressure differential of 6.24 psf (300 Pa).

3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf (383 Pa) as defined in AAMA 501.

4. Uniform Load: A static air design load of 20 psf (958 Pa) shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.

5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall not be more than: .60 with SHGC not to exceed .25.

6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:
   a. Glass to Exterior – 70 frame and 69 glass (low-e)
   b. Glass to Center – 62 frame and 68 glass (low-e)
   c. Glass to Interior – 56 frame and 67 glass (low-e)

7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:
   a. Glass to Exterior – 38 (STC) and 31 (OITC)
   b. Glass to Center – 37 (STC) and 30 (OITC)
   c. Glass to Interior – 38 (STC) and 30 (OITC)

1.5 Submittals

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system indicated.

B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to other work, operational clearances and installation details.

C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color selection.

D. Samples for Verification: For aluminum framed entrance system and components required.

E. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency for each type of aluminum-framed storefront.

F. Fabrication Sample: Of each vertical-to-horizontal intersection of aluminum-framed systems, made from 12” (300 mm) lengths of full-size components and showing details of the following:
   1. Joinery, including concealed welds.
   2. Anchorage.

3. Expansion provisions.
4. Glazing.
5. Flashing and drainage.

G. Other Action Submittals:
1. Entrance Door Hardware Schedule: See Section 08710. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.

1.6 Quality Assurance

A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.

B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.

C. Source Limitations: Obtain aluminum framed storefront system through one source from a single manufacturer.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Refer to Division 01 Section "Product Requirements." Do not modify size and dimensional requirements.
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

E. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
1. Build mockup for type(s) of storefront elevation(s) indicated, in location(s) shown on Drawings.

F. Structural-Sealant Glazing: Comply with ASTM C 1401, "Guide for Structural Sealant Glazing" for design and installation of structural-sealant-glazed systems.

G. Structural-Sealant Joints: Design reviewed and approved by structural-sealant manufacturer.

1.7 Project Conditions

A. Field Measurements: Verify actual dimensions of aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.8 Warranty

A. Manufactures Warranty: Submit, for Owner’s acceptance, manufacturer’s standard warranty.
1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

## 2.0 – PRODUCTS

### 2.1 Manufacturers

A. Basis-of-Design Product:
   1. Kawneer Company Inc.
   2. Trifab® 451T (thermal) Storefront System
   3. 2” x 4-1/2” (50.8 mm x 114.3 mm) System Dimensions
   4. Glass: Center, Exterior or Interior

B. Subject to compliance with requirements, provide a comparable product by the following:
   1. Manufacturer: YKK to meet or exceed the criteria specified.

C. Substitutions: Refer to Substitutions Section 01360 for procedures and submission requirements
   1. For pre-approval: Submit written requests ten (10) days prior to bid date.
   2. Certificates: Submit certificate(s) certifying substitute manufacturer (1) attesting to adherence to specification requirements for storefront system performance criteria, and (2) has been engaged in the design, manufacturer and fabrication of aluminum storefronts for a period of not less than ten (10) years.

D. Substitution Acceptance: Acceptance will be in written form as an addendum or post bid documented by a formal change order signed by the Owner and Contractor and approved by Architect. No exceptions. No other substitutions will be considered post bid.

### 2.2 Materials

A. Aluminum Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090” wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.

B. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window members, trim hardware, anchors, and other components.

C. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

D. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.
   1. Weather Seals: Provide weather stripping with integral barrier fin or fins of semi-rigid, polypropylene sheet or polypropylene-coated material. Comply with AAMA 701/702.

E. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.

Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront members are nominal and in compliance with AA Aluminum Standards and Data.

2.3 Storefront Framing System

A. Thermal Barrier (Trifab® VG 451T):

1. Kawneer IsoLock® Thermal Break with a 1/4" (6.4 mm) separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

a. Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.

B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials. Where exposes shall be stainless steel.

D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action

E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

2.4 Glazing Systems

A. Glazing: As specified in Division 08810 Section "Glass and Glazing."

B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.

C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.

D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:

1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.

a. Color: To be selected by Architect.

2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant,

weatherseal-sealant, and aluminum-framed-system manufacturers for this use.

a. Color: Matching structural sealant as selected by Architect.

2.5 Entrance Door Systems

A. Entrance Door Hardware: As specified in Division 08710 Section "Finish Hardware."

2.6 Accessory Materials

A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in Division 07 Section "Joint Sealants."

B. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30 mil (0.762 mm) thickness per coat.

2.7 Fabrication

A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:

1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fit joints; make joints flush, hairline and weatherproof.
3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
4. Physical and thermal isolation of glazing from framing members.
5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
6. Provisions for field replacement of glazing.
7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.

D. Storefront Framing: Fabricate components for assembly using manufactures standard installation instructions.

E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 Aluminum Finishes

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Factory Finishing:

1. Kawneer Permafluor™ (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color to be selected by Architect.

## 3.0 – EXECUTION

### 3.1 Examination

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.

1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.
2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches (76 mm) of opening.
3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 Installation

A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, accessories, and other components.

B. Install aluminum framed storefront system level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.

C. Set sill members in bed of sealant or with gaskets, as indicated, for weather tight construction.

D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior.

E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

### 3.3 Field Quality Control

A. Manufacturer's Field Services: Upon Owner’s written request, provide periodic site visit by manufacturer’s field service representative.

### 3.4 Adjusting, Cleaning, And Protection

A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.

B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.

C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

END OF SECTION

# LIGHTING FIXTURE SCHEDULE

| MARK | MANUFACTURER | CATALOG NO. | LAMPS NO. | LAMPS WATTS | LAMPS TYPE | MOUNTING HEIGHT | TYPE MOUNTING | RECESS DEPTH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| A | METALUX | 24CGT5535C | FURNISHED WITH FIXTURE | | | CEILING | RECESSED | 2-1/8" | |
| A (EM) | METALUX | 24CGT5535C-EL14W | FURNISHED WITH FIXTURE | | | CEILING | RECESSED | 2-1/8" | SEE NOTE 1 |
| B | METALUX | 24CGT4535C | FURNISHED WITH FIXTURE | | | CEILING | RECESSED | 2-1/8" | |
| B (EM) | METALUX | 24CGT4535C-EL14W | FURNISHED WITH FIXTURE | | | CEILING | RECESSED | 2-1/8" | SEE NOTE 1 |
| C | METALUX | ORX-2-VCS-16L-1-35K8-UNV-PM12-BLK-UL824 | FURNISHED WITH FIXTURE | | | CEILING | 12" PENDANT | | |
| C (EM) | METALUX | ORX-2-VCS-16L-1-35K8-UNV-PM12-BLK-UL824-EM | FURNISHED WITH FIXTURE | | | CEILING | 12" PENDANT | | SEE NOTE 1 |
| F | MCGRAW-EDISON | TT-D2-740-U-MQ-BZ-F-TR | FURNISHED WITH FIXTURE | | | CEILING | SURFACE | | |
| F (EM) | MCGRAW-EDISON | TT-D2-740-U-MQ-BZ-F-TR-IBP | FURNISHED WITH FIXTURE | | | CEILING | SURFACE | | SEE NOTE 1 |
| G | MCGRAW-EDISON | TT-D5-740-U-MQ-BK-F-TR | FURNISHED WITH FIXTURE | | | BOTTOM OF BEAM | SURFACE | | |
| G (EM) | MCGRAW-EDISON | TT-D5-740-U-MQ-BK-F-TR-IBP | FURNISHED WITH FIXTURE | | | BOTTOM OF BEAM | SURFACE | | |
| H | MCGRAW-EDISON | ISW-E02-LED-E1-BL4-BZ-TR | FURNISHED WITH FIXTURE | | | +9' | BRACKET | | |
| H (EM) | MCGRAW-EDISON | ISW-E02-LED-E1-BL4-BZ-TR-BBB | FURNISHED WITH FIXTURE | | | +9' | BRACKET | | SEE NOTE 1 |
| P1 | NLS LIGHTING | NV-1-T4-64L-7-40K-UNV-ASA-BRZ | FURNISHED WITH FIXTURE | | | +35' | POLE | | HAPCO POLE SSS35D5-4-GC/82351 (1 HEAD) BRONZE |
| P2 | NLS LIGHTING | NV-1-T5-64L-7-40K-UNV-DPS3-BRZ | FURNISHED WITH FIXTURE | | | +35' | POLE | | HAPCO POLE SSS35D5-4-GC/82351 (2 HEADS) BRONZE |
| X | SURE-LITES | EUX7-R-UNV | FURNISHED WITH FIXTURE | | | ℄ ABOVE DOOR | BRACKET | | |

NOTES:
1. FEED ALL "EM" FIXTURES WITH SWITCHED AND UNSWITCHED HOT LEGS. UNSWITCHED HOT LEG IS USED FOR VOLTAGE SENSING.
2. VERIFY ALL FIXTURE COLORS WITH ARCHITECT PRIOR TO SUBMITTALS.
3. EQUAL FIXTURES BY LITHONIA, PARKER, DAYBRITE, AND COLUMBIA WILL BE CONSIDERED APPROVED EQUALS.

# GENERAL NOTES

1. SERVICE TO PROJECT IS 277/480 VOLTS, 3 PHASE, 4 WIRE.
2. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
3. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
4. CONTRACTOR TO VERIFY LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION.
5. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF COUNTERTOPS AND BACKSPLASHES ON ARCHITECTURAL DETAILS AND/OR CASEWORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED TO AVOID CONFLICTS.
6. CONTRACTOR WILL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
7. FURNISH AND INSTALL PLASTER FRAMES FOR ALL RECESSED FIXTURES AS REQUIRED.
8. SUPPORT OF ALL LIGHTING FIXTURES TO BE THE RESPONSIBILITY OF THIS CONTRACTOR. FIXTURES TO BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING.
9. ELECTRICAL CONTRACTOR MUST CHECK THE CORRESPONDING MECHANICAL SHEETS AND BE RESPONSIBLE FOR INCLUDING PROPER SERVICE AND CONNECTIONS TO ALL MECHANICAL ITEMS SHOWN THEREON REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON ELECTRICAL SHEETS.
10. ALL CONDUIT CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
11. COORDINATE SERVICES WITH POWER AND COMMUNICATIONS COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT THE CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
12. IT IS INTENDED THAT SPECIFICATIONS AND PLANS SHALL INCLUDE EVERYTHING REQUIRED AND NECESSARY FOR PROPER AND COMPLETE INSTALLATION OF THE COMPLETE SYSTEMS SHOWN EVEN THOUGH EVERY ITEM MAY NOT BE PARTICULARLY MENTIONED IN DETAIL. THE CONTRACTOR SHALL DELIVER TO OTHER TRADES ANY EQUIPMENT THAT MUST BE INSTALLED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS AND COORDINATION OF THE PHYSICAL SIZE OF ALL EQUIPMENT WITH THE ARCHITECTURAL REQUIREMENTS OF THE SPACES INTO WHICH THE EQUIPMENT WILL BE INSTALLED.
13. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED GROUND WIRE. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. (SIZE GROUND WIRES PER N.E.C.)
14. REMOVE ALL EXISTING PANELBOARDS, DISCONNECTS, FIXTURES, RECEPTACLES, AUXILIARY SYSTEM DEVICES, CONDUIT, CONDUCTORS, ETC. BEING RENDERED OBSOLETE BY THIS PROJECT.
15. WHERE EXISTING REMAINING CIRCUITS ARE BEING INTERRUPTED DUE TO STRUCTURAL AND/OR DESIGN CHANGES, THIS CONTRACTOR WILL EXTEND EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO REMAINING ACTIVE DEVICES.

# CODE EXCEPTION NOTE

THIS PROJECT HAS BEEN DESIGNED UNDER ASHRAE 90.1 2013, EXCEPT AS FOLLOWS: WE TAKE EXCEPTION TO SECTION 8.4.2 FOR REQUIRING CONTROLLED RECEPTACLES, AND SECTION 8.4.3 FOR REQUIRING ENERGY MONITORING. WE OFFICIALLY REQUEST THAT THIS PROJECT BE APPROVED WITHOUT THOSE ITEMS.

# ELECTRICAL SYMBOLS

| | |
|---|---|
| (A)1 a | CEILING OUTLET – FIXTURE "A", CIRCUIT 1, SWITCH a. |
| | CEILING OUTLET – FLUORESCENT FIXTURE. |
| | CEILING OUTLET – FLUORESCENT INDUSTRIAL OR STRIP TYPE. |
| H | WALL OUTLET – INCANDESCENT BRACKET TYPE. |
| | WALL OUTLET – FLUORESCENT BRACKET TYPE. |
| | WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR. |
| | WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT6STR PLUG TAIL CONNECTOR – MOUNT AT 6" ABOVE COUNTER. |
| IG D | WALL OUTLET – ISOLATED GROUND DOUBLE DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PTIG5362 WITH PT6STR PLUG TAIL CONNECTOR. (THESE ARE ORANGE ISOLATED GROUND TYPE RECEPTACLES) |
| IG D | WALL OUTLET – ISOLATED GROUND DOUBLE DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PTIG5362 WITH PT6STR PLUG TAIL CONNECTOR. (THESE ARE ORANGE ISOLATED GROUND TYPE RECEPTACLES) MOUNT AT 6" ABOVE COUNTER |
| GFCI | WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR. |
| WP GFCI | WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, PASS & SEYMOUR PT2095-GRY WITH PT6STR PLUG TAIL CONNECTOR. INSTALL #WIUC10-CAGV WEATHERPROOF COVER. DEVICE SHALL BE LABELED AS "EXTRA DUTY". |
| | WALL OUTLET – SINGLE OUTLET, 30A, 125/250V, 4W, BY HUBBELL OR APPROVED EQUAL. |
| • | FLOOR OUTLET – CONDUIT STUB UP. |
| J | CEILING OUTLET – JUNCTION BOX. |
| J | WALL OUTLET – JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT. |
| $ | SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 – GREY.("N" DENOTES NARROW) |
| $D | SWITCH OUTLET – FLUORESCENT DIMMER – LUTRON NOVA-T SERIES #NTF-103P. |
| $2 | SWITCH OUTLET – AC TYPE, TWO POLE, 20A, 120/277V, HUBBELL #1222 – GREY. |
| $3 | SWITCH OUTLET – AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 – GREY. |
| $4 | SWITCH OUTLET – AC TYPE, FOUR WAY, 20A, 120/277V, HUBBELL #1224 – GREY. |
| $M | SWITCH MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOAD PROTECTION. |
| $P | SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #12211LC. |
| | LIGHTING PANEL – SEE SPECIFICATIONS AND SCHEDULE. |
| | POWER PANELS – SEE SPECIFICATIONS AND SCHEDULE. |
| | BRANCH CIRCUIT CONCEALED IN WALL OR CEILING. |
| | BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND. |
| | HOMERUN TO PANELBOARD – ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) – 1/2" CONDUIT. 3 # 12 & 1 # 12(G) – 3/4" CONDUIT. 4 # 12 & 1 # 12(G) – 3/4" CONDUIT. |
| E | EMPTY CONDUIT – 3/4". |
| | BRANCH CIRCUIT EXPOSED. |
| | CONDUIT RUN DOWN WALLS, CONCEALED |
| • | CONDUIT RUN UP WALLS, CONCEALED |
| (5) | MOTOR SHOWN 5hp (TYPICAL) OR (20) 40 AMPS (TYPICAL). |
| (F) | EXHAUST FAN MOTOR – FRACTIONAL HORSEPOWER. |
| | MAGNETIC MOTOR STARTER. |
| | NON-FUSED DISCONNECT SWITCH. (RT – RAINTIGHT). |
| | FUSED DISCONNECT SWITCH. |
| A.F.F. | ABOVE FINISHED FLOOR. |
| VER. | VERIFY LOCATION. |
| N.E.C. | NATIONAL ELECTRICAL CODE. |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| WP | WEATHER PROOF |
| IG | ISOLATED GROUND |
| | FIRE ALARM – SMOKE DETECTOR – SEE SPEC. |
| D | FIRE ALARM – DUCT DETECTOR – SEE SPEC. |
| H | FIRE ALARM – HEAT DETECTOR – SEE SPEC. |
| F | FIRE ALARM – MANUAL PULL STATION – SEE SPEC. |
| F | FIRE ALARM – STROBE LIGHT – SEE SPEC. |
| S | FIRE ALARM – STROBE LIGHT/SPEAKER – SEE SPEC. |
| FACP | FIRE ALARM CONTROL PANEL – SEE SPEC. |
| S.S.C. | MASTER INTERCOM SOUND CONSOLE – EXISTING – SEE SPEC. |
| S | SOUND SYSTEM – CEILING MOUNTED SPEAKER – SEE SPEC. |
| | SOUND SYSTEM – CALL-IN SWITCH – SEE SPEC. |
| IC | SOUND SYSTEM – INTERCOM CONTROL STATION – SEE SPEC. |
| S | SOUND SYSTEM – WIRING – SEE SPEC. |
| SSR-G | SOUND SYSTEM RACK – GYMNASIUM – SEE SPEC. |
| SS | SOUND SYSTEM – GYM SPEAKER – SEE SPEC. |
| H S | SOUND SYSTEM – WALL MOUNTED HORN SPEAKER – SEE SPEC. |
| | COMPUTER OUTLET – 3/4" CONDUIT WITH CABLING-SEE SPEC. |
| | COMPUTER OUTLET – 3/4" CONDUIT WITH CABLING-MOUNT 6" ABOVE COUNTER-SEE SPEC. |
| D | DATA CONDUIT – BELOW GRADE DATA CONDUIT WITH DATA CABLES (3/4" UNLESS OTHERWISE SPECIFIED) |
| | FLOOR BOX – COMBINATION EMPTY / DATA / POWER OUTLET. PROVIDE WITH TWO DUPLEX OUTLETS AND EMPTY COMPARTMENTS FOR DATA AND POWER (WIREMOLD EFB10S BOX WITH EFB10SM COMPARTMENTS EFB10-B, EFB10-DP, EFB10-DEC PLATES AS REQUIRED AND EFB10S-DIVIDERS AS REQUIRED AND EFB610BTBZ COVER). |
| | FUTURE CAMERA LOCATION – CONTRACTOR SHALL SUPPLY AND INSTALL 1 CAT 6 CABLE CONNECTED TO MDF/IDF RACK (IN 3/4" CONDUIT WHEN NOT ABOVE CEILING). CAMERAS WILL BE ADDED BY OWNER IN THE FUTURE. CONTRACTOR SHALL ONLY INSTALL CABLE AND LEAVE AT LOCATION AS REQUIRED. |
| $OR | LIGHTING CONTROL PANEL OVERRIDE SWITCH – DIGITA 5-1B |
| $MS | WALL SWITCH WITH BUILT IN MOTION SENSOR – COOPER #OSW-P-0451-W WITH WALL PLATE |

# FIRE ALARM SYSTEM NOTES

1. PROVIDE FIRE ALARM COMPLETION DOCUMENTS AT THE STATE FINAL INSPECTION. THIS ITEM WILL BE REQUIRED BY STATE BUILDING INSPECTOR AT THE TIME OF FINAL INSPECTION (OLD CERTIFICATION FORM).
2. ADDITIONS AND ALTERATIONS TO THE FIRE ALARM SYSTEM REQUIRE TESTING, A RECORD OF COMPLETION, AND RECERTIFICATION. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA-72 (2013) 10.4.2, 10.5.2, AND 10.18.1.
3. ALL WORK SHALL BE PERFORMED BY A CERTIFIED FIRE ALARM CONTRACTOR – SEE SPECS.

# COLOR CODE FOR ELECTRICAL WIRING

1. 277/480 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM
   PHASE A-BROWN
   B-ORANGE
   C-YELLOW
   N-GRAY
2. 120/208 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM
   PHASE A-BLACK
   B-RED
   C-BLUE
   N-WHITE
3. GROUND-GREEN

# COLOR CODE FOR JUNCTION BOXES

NOTE:
PAINT ALL JUNCTION BOXES AND COVERS WITH COLORS AS SHOWN BELOW. PAINTING COVERS ONLY IS NOT ACCEPTABLE.

| FUNCTION: | COLOR: |
|---|---|
| LIGHTING | BLUE |
| POWER | GREEN |
| FIRE ALARM | RED |
| MISC. AUXILIARIES (SOUND, ETC.) | BROWN |


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Engineer:
J. Lance Junkin, P.E.
Alabama Reg. 14817
Project Number:
2547


LATHAN ARCHITECTS

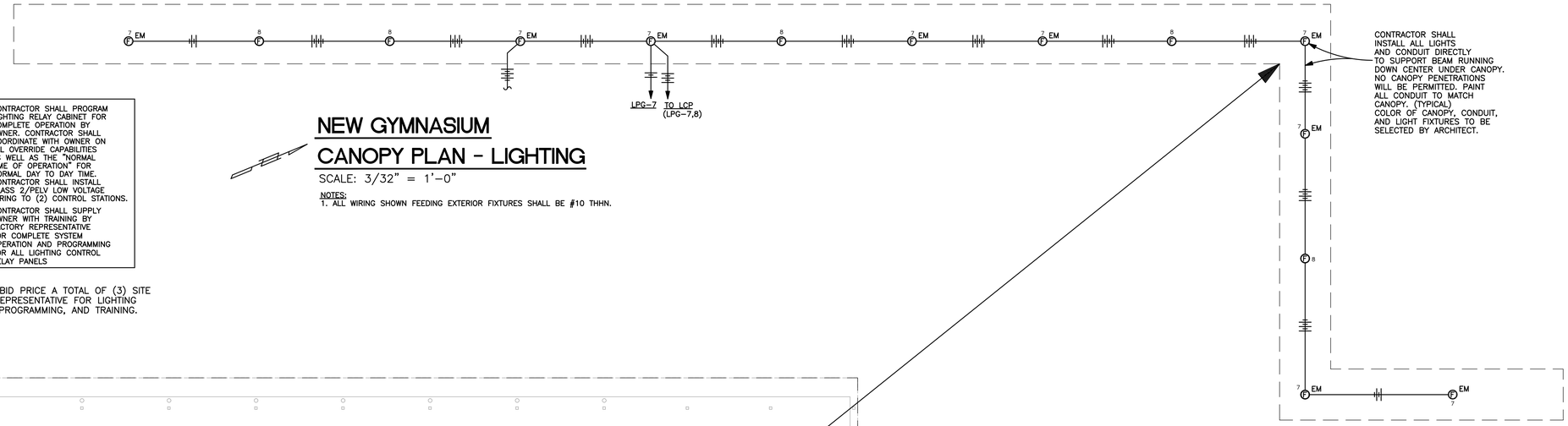
NEW GYMNASIUM FOR
BARKLEY BRIDGE ELEMENTARY SCHOOL
2333 BARKLEY BRIDGE ROAD SW, HARTSELLE, AL 35640
HARTSELLE CITY BOARD OF EDUCATION

ALABAMA LICENSED No. 29140 PROFESSIONAL ENGINEER J. RYAN HAIR
04-15-2025

SHEET TITLE:
SCHEDULES, SYMBOLS, AND NOTES

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: MARCH 21, 2025
REVISIONS
1 ADDENDUM NO. 2 4.15.25

JOB NO. 24-107
SHEET NO: E1.1
1 OF 8

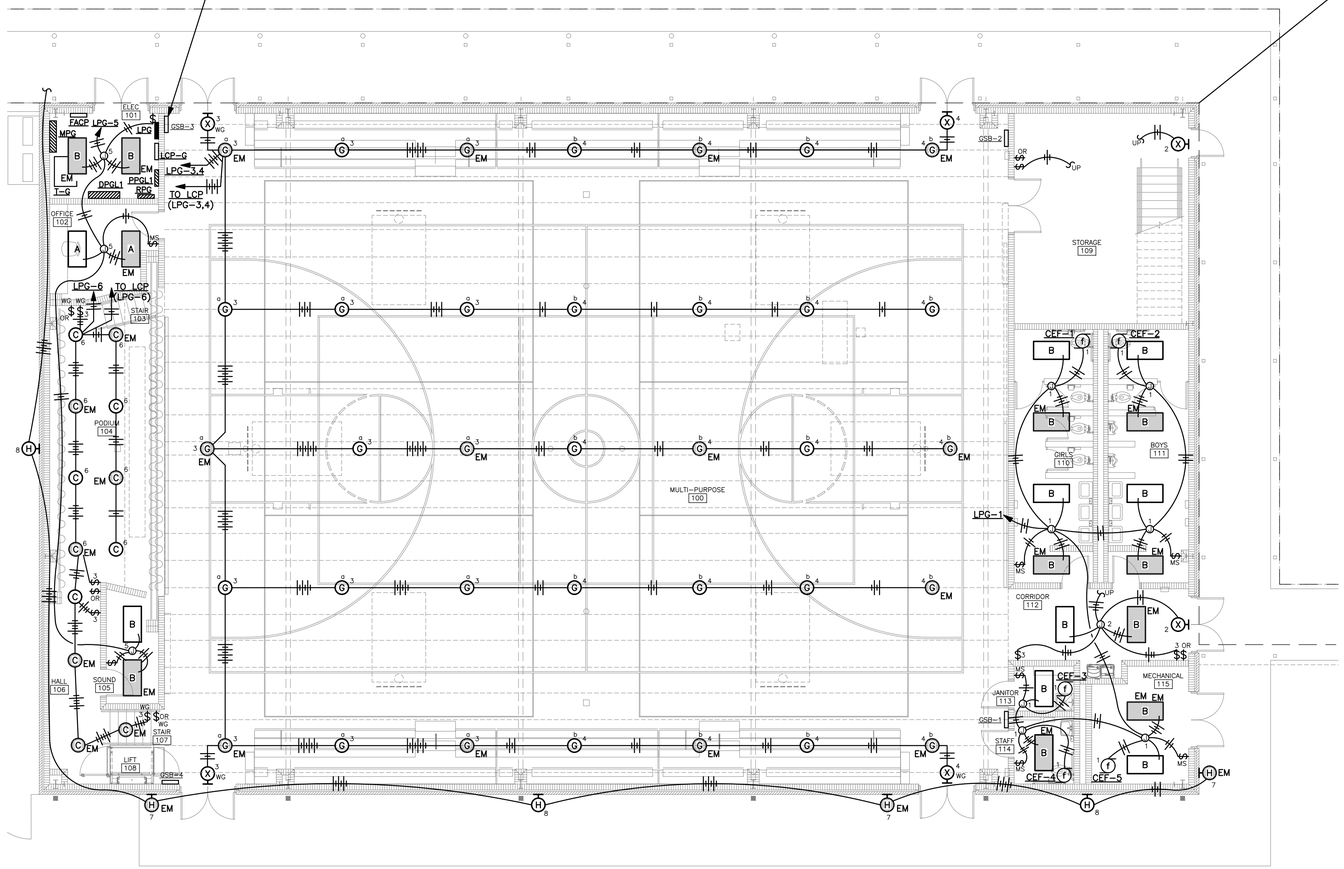



## NEW GYMNASIUM
## CANOPY PLAN - LIGHTING
SCALE: 3/32" = 1'-0"

NOTES:
1. ALL WIRING SHOWN FEEDING EXTERIOR FIXTURES SHALL BE #10 THHN.

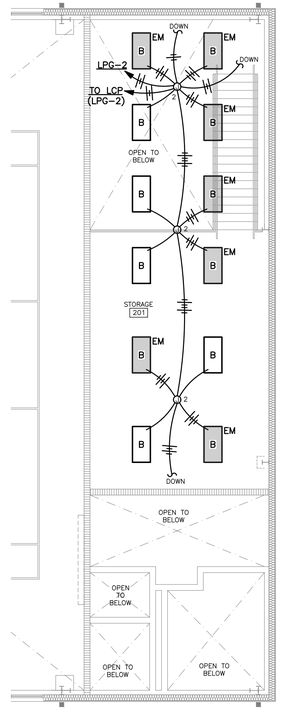
| | |
|---|---|
| (4) 6"x6"x6"D RECESSED HOFFMAN BOXES (GSB-1,2,3,4) WITH KEYED COVER AND COOPER SWITCH STATIONS AND OVERRIDE SWITCHES MOUNTED INSIDE | CONTRACTOR SHALL PROGRAM LIGHTING RELAY CABINET FOR COMPLETE OPERATION BY OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER ON ALL OVERRIDE CAPABILITIES AS WELL AS THE "NORMAL TIME OF OPERATION" FOR NORMAL DAY TO DAY TIME. CONTRACTOR SHALL INSTALL CLASS 2/PELV LOW VOLTAGE WIRING TO (2) CONTROL STATIONS. |
| COOPER SWITCH STATION (2)CDS-21SB-W (2 ZONES) (SEE DETAIL FOR ZONES) | |
| COOPER OVERRIDE SWITCH FOR LCP-G (1 BUTTON WITH 4HR) | CONTRACTOR SHALL SUPPLY OWNER WITH TRAINING BY FACTORY REPRESENTATIVE FOR COMPLETE SYSTEM OPERATION AND PROGRAMMING FOR ALL LIGHTING CONTROL RELAY PANELS |
| WIRE TO LCP-G AS REQUIRED | |

SITE VISIT NOTE:
CONTRACTOR SHALL INCLUDE IN BID PRICE A TOTAL OF (3) SITE VISITS FROM FACTORY TRAINED REPRESENTATIVE FOR LIGHTING CONTROL SYSTEM INSTALLATION, PROGRAMMING, AND TRAINING.

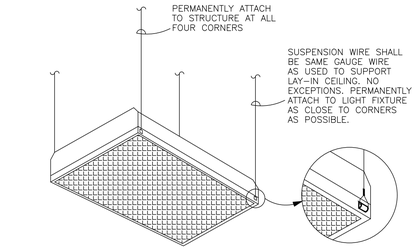



## NEW GYMNASIUM
## FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

NOTES:
1. ALL WIRING SHOWN FEEDING EXTERIOR FIXTURES SHALL BE #10 THHN.




## NEW GYMNASIUM
## MEZZANINE PLAN - LIGHTING
SCALE: 1/8" = 1'-0"




## DETAIL - LIGHT FIXTURE SUPPORT
N.T.S.

### RELAY PANEL LCP-G

| R | PANEL | CIRCUIT | PROGRAM MODE | |
|---|---|---|---|---|
| 1 | LPG | 2 | NORMAL DAY-TO-DAY | |
| 2 | LPG | 3 ZONE 1 | NORMAL DTD (SWITCH "a") | GYM PUSHBUTTON 1 |
| 3 | LPG | 4 ZONE 2 | NORMAL DTD (SWITCH "b") | GYM PUSHBUTTON 2 |
| 4 | LPG | 6 | NORMAL DAY-TO-DAY | |
| 5 | LPG | 7 | EXTERIOR DUSK TO DAWN | |
| 6 | LPG | 8 | EXTERIOR DUSK TO MIDN. | |
| 7 | LPG | 9 | EXTERIOR DTD (2 POLE) | |
| 8 | LPG | 10 | EXTERIOR DTM (2 POLE) | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |

COOPER GREENGATE RELAY CABINET (NETWORKABLE)
CONTROLKEEPER 16 (CKT16) WITH 16 RELAYS

1

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Engineer:
J. Lance Junkin, P.E.
Alabama Reg. 14817
Project Number: 2547

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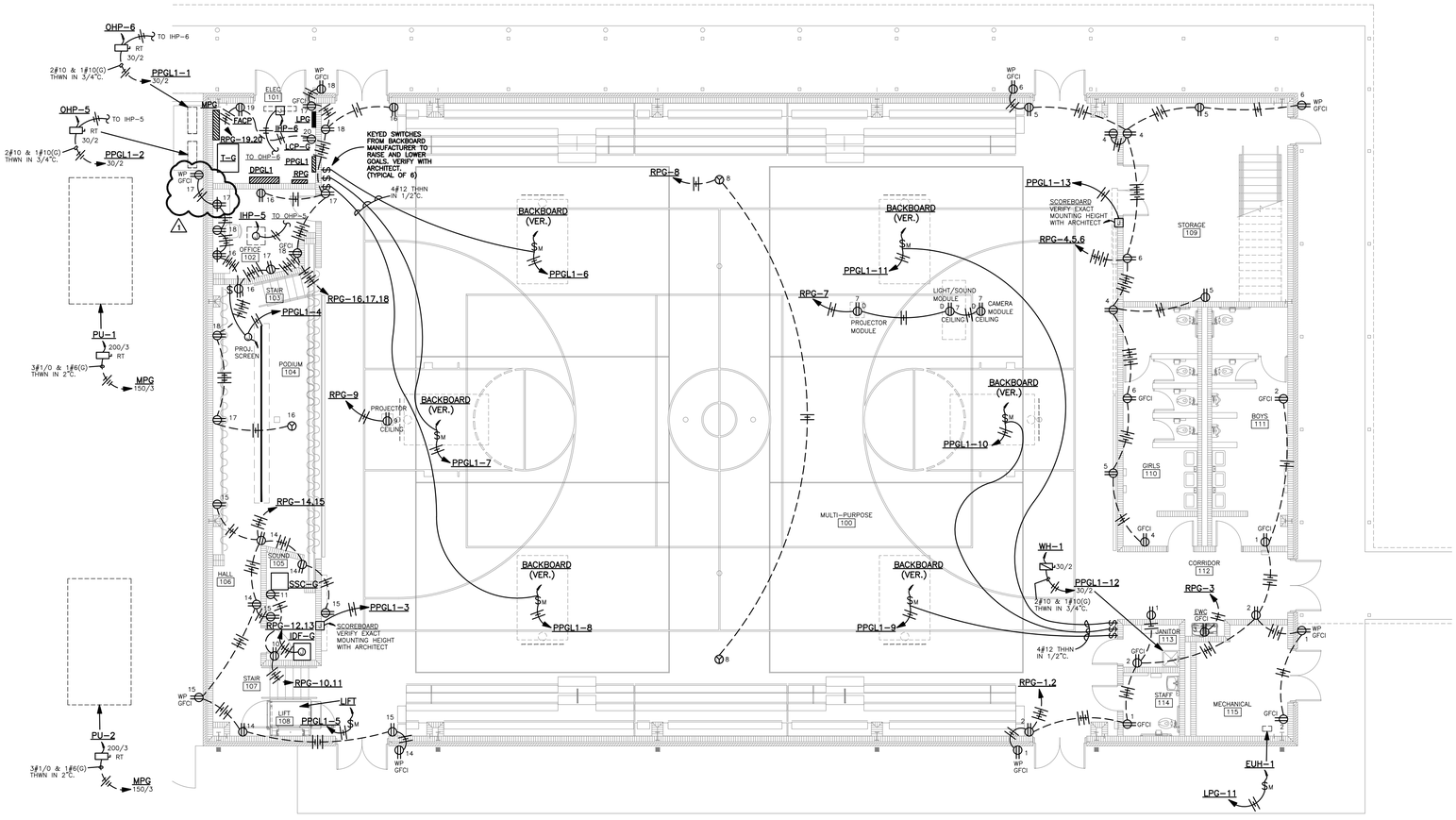
NEW GYMNASIUM FOR
# BARKLEY BRIDGE ELEMENTARY SCHOOL
2333 BARKLEY BRIDGE ROAD SW, HARTSELLE, AL 35640
HARTSELLE CITY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER J. RYAN HART
04-15-2025

SHEET TITLE:
NEW GYM FLOOR PLAN - LIGHTING

PROJ. MGR.: LANCE JUNKIN
DRAWN: SEC
DATE: MARCH 21, 2025
REVISIONS
1 ADDENDUM NO. 2 4.15.25

JOB NO. 24-107
SHEET NO:
E3.1
3 OF 8

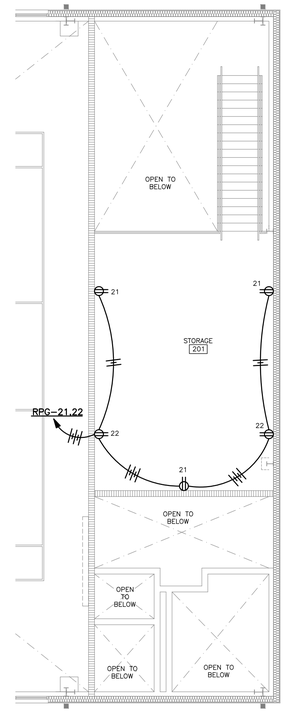



## FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

NOTES:

1. COORDINATE ALL OUTLETS AT COUNTER AREAS CLOSELY WITH ARCHITECTURAL CASEWORK DRAWINGS. PLACE OUTLETS BELOW COUNTERS, AT STANDARD MOUNTING HEIGHT, WHEN KNEE SPACE PERMITS ACCESS (COORDINATE INSTALLATION OF HOLES WITH RUBBER GROMMETS IN THOSE CASES).
2. COORDINATE INSTALLATION OF OUTLETS CLOSELY WITH FURNITURE SUPPLIER.
3. ALL BRANCH CIRCUIT HOME RUNS THAT EXCEED 100' IN LENGTH SHALL BE #10 THHN.




## MEZZANINE PLAN - POWER

SCALE: 1/8" = 1'-0"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ALABAMA LICENSED PROFESSIONAL ENGINEER RYAN HART 04-15-2025

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NEW GYM FLOOR PLAN - POWER

| | |
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