WARD SCOTT MORRIS ARCHITECTURE

ADDENDUM NO. 2:

Date:	June 3, 2026
Project:	Sumter County CTE Annex DCM# 2026158 WSM# 25-135
Owner:	Sumter County Board of Education
Architect:	Ward Scott Morris Architecture, Inc.
BID DATE:	~~**June 2, 2026**~~ **June 9, 2026**
BID TIME:	**2:00 PM local time**
BID LOCATION:	Sumter County Board of Education Office, 716 Country Club Road, Livingston, AL

This Addendum forms a part of the Contract Documents and modifies the original Bid Documents as noted below. Acknowledge receipt of this Addendum in the location provided on the Bid Proposal Form.

1.1 GENERAL

A. Geotechnical Report Addendum – Revised minimum bearing depth for lightly loaded interior wall footings. Perimeter spread footings remain at a minimum of 36 inches below exterior finished grade.

B. Revised Finish Hardware Specifications – Section 08710

C. Revised Allowance No. 6 – Lump Sum Allowance – Bi-Directional Amplifier (BDA) System

D. Revisions to civil drawings including Sheet C201 (existing water and sanitary sewer lines changed to remain) and Sheet C501 (revised sanitary sewer layout).

E. Revisions Mechanical drawings including HVAC Details, Diagrams, & Schedules (M001) and HVAC Plan (M101).

F. Revisions to Electrical drawing including Panel 'SL' Schedule for fire alarm circuit designation and new bi-directional amplifier (BDA) breaker. Added circuits for fire alarm panel and BDA on power wiring plan. Revisions to auxiliary symbols list, general auxiliary notes, and telecom equipment rack elevation. Future camera locations to be coordinated with documents provided by security consultants.

1.2 CLARIFICATIONS

A. All exterior glazing, including windows and storefront systems, shall be insulated tempered glass.

B. Millwork, casework, built-in cabinets, countertops, welding booths and heavy duty metal shelving indicated on the drawings shall be furnished and installed by the General Contractor as part of this Contract.

All laboratory equipment, specialty equipment, seating and loose furniture are for reference only and are not included in the scope of this Contract.

Owner-furnished automotive equipment to be relocated from the existing facility shall be installed and set in its final position by the General Contractor as directed by the Owner or Architect.

1.3 APPROVED SUBSTITUTIONS

A. The following products have been approved

1. Section 08710 – Door Hardware - DesignHardware has been approved as a vendor.

2. Section 072100_THERMAL INSULATION:
   The Henry Company. Kingspan GreenGuard GG25-LG XPS Insulation Board
3. Section 072726_FLUID-APPLIED MEMBRANE AND AIR BARRIERS:
   The Henry Company. Henry Air Bloc 16 MR

1.4 SPECIFICATIONS

A. Finish Hardware – Section 08710
B. Allowances – Section 012100
C. Service Windows – Section 085630

1.5 DRAWINGS

A. See revised Sheet C201 – Changed existing water & sanitary sewer lines to “remain”.
B. See revised Sheet C501 – Revised sanitary sewer layout.
C. See revised Sheet M001
D. See revised Sheet M101
E. See revised Sheet E002
F. See revised Sheet E101
G. See revised Sheet E300
H. See revised Sheet E301

1.6 ATTACHED TO ADDENDUM

A. Geotechnical Report – Addendum No. 2
B. Finish Hardware – Section 08710
C. Allowances – Section 012100
D. Service Windows – Section 085630
E. Revised Sheet C201
F. Revised Sheet C501
G. Smith, Stegall and Associates, P.C. Cover Page
H. Revised Sheet M001
I. Revised Sheet M101
J. Revised Sheet E002
K. Revised Sheet E101
L. Revised Sheet E300
M. Revised Sheet E301

END OF ADDENDUM

101 Quality Cir. NW, Ste.130
Huntsville, AL 35806
256.384.6768
www.TTLUSA.com

May 7, 2026

Ward Scott Morris Architecture
Attn: Mr. Cody Bryant
1606 Paul W. Bryant Drive
Tuscaloosa, Alabama 35401

RE: Geotechnical Report – Addendum No. 2
Sumter Central High School Career Academy
York, Sumter County, Alabama
TTL Project No. 25-11-03464

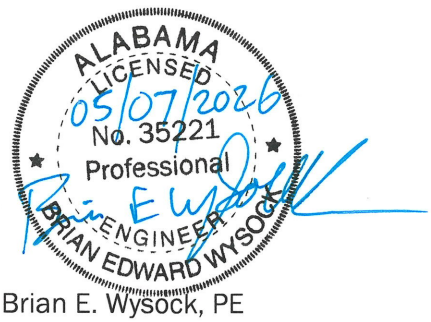
Dear Mr. Bryant:

This letter is provided as Addendum No. 2 to the Geotechnical Report, dated March 13, 2026, issued by TTL, Inc. (TTL) for the Sumter Central High School Career Academy project. This addendum has been prepared to provide additional recommendations regarding shallow foundation bearing depth.

TTL's geotechnical report included a recommended minimum bearing depth below exterior finished grade for perimeter spread footings of 36 inches. After the report was issued, TTL discussed the interior walls with the project structural engineer, Mr. Josh Dogan, PE, and verbally recommended the lightly loaded interior wall footings bear a minimum of 18 inches below grade. This letter serves to formalize the shallower recommended bearing depth of the interior footings. The building pad soils should be prepared as recommended in the geotechnical report prior to footing excavation or construction. Additionally, the foundation bearing surfaces should be assessed as recommended in the geotechnical report prior to steel or concrete placement. The recommended minimum bearing depth for the perimeter spread footings is still 36 inches.

This addendum letter should be attached to and made part of our geotechnical report. We appreciate this opportunity to be of service. Please contact us at your convenience if you have questions or require additional information.

Respectfully submitted,
TTL, Inc.



Connor M. Hall
Project Professional

Brian E. Wysock, PE
Senior Engineer

1.0 - GENERAL

1.1 Related Documents

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

1.2 Summary

A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

B. This Section includes the following:
   1. Architectural Hinges
   2. Continuous Hinges
   3. Key Control System, Cylinders and Cores.
   4. Locksets, Latchsets and Deadbolts
   5. Panic Devices and Fire Rated Exit Devices
   6. Closers and Door Control Devices
   7. Overhead Door Stops and Holders
   8. Floor and Wall Stops
   9. Door Bolts and Coordinators
   10. Door Pulls, Push/Pull Plates and Push/Pull Sets
   11. Protective Plates
   12. Door Seals, Gasketing and Weatherstripping
   13. Thresholds
   14. Miscellaneous Door Control Devices
   15. Electromechanical Hardware
   16. Miscellaneous Access Control Components and Security Equipment

C. Related Sections: The following Sections contain requirements that relate to the following sections.
   1. Section 08110: Hollow Metal Doors and Frames
   2. Section 08215: Wood Doors
   3. Section 08420: Aluminum-Framed Entrances and Storefronts
   4. Division 16: Electrical
   5. Division 28: Electronic Safety and Security

D. Products furnished but not installed under this Section to include:
   1. Cylinders for locks on entrance doors.
   2. Final replacement cores and keys to be installed by Owner.

1.3 References

A. Standards of the following as referenced:
   1. American National Standards Institute (ANSI)
   2. Door and Hardware Institute (DHI)
   3. Factory Mutual (FM)
   4. National Fire Protection Association (NFPA)
   5. Underwriters' Laboratories, Inc. (UL)
   6. UL 10C - Fire Tests Door Assemblies
   7. Warnock Hersey

B. Regulatory standards of the following as referenced:
   1. Department of Justice, Office of the Attorney General, *Americans with Disabilities Act*, Public Law 101-336 (ADA).

2. CABO/ANSI A117.1: *Providing Accessibility and Usability for Physically Handicapped People*, 2010 edition.

1.4 Submittals

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.

B. Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements. For items other than those scheduled in the “Headings” of Section 3, provide catalog information for the specified items and for those submitted.

C. Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Final Hardware Schedule Content: Based on hardware indicated, organize schedule into vertical format “hardware sets" indicating complete designations of every item required for each door or opening. Use specification heading numbers with any variations suffixed a, b, etc. Include the following information:
   a. Type, style, function, size, and finish of each hardware item.
   b. Name and manufacturer of each item.
   c. Fastenings and other pertinent information.
   d. Location of each hardware set cross-referenced to indications on Drawings both on floor plans and in door and frame schedule.
   e. Explanation of all abbreviations, symbols, and codes contained in schedule.
   f. Mounting locations for hardware.
   g. Door and frame sizes and materials.
   h. Keying information.
   i. Cross-reference numbers used within schedule deviating from those specified.
   j. Column 1: State specified item and manufacturer.
   k. Column 2: State prior approved substituted item and its manufacturer.
2. Furnish complete wiring diagrams, riser diagrams, elevation drawings and operational descriptions of electrical components and systems, listed by opening in the hardware submittals. Elevation drawings shall identify locations of the system components with respect to their placement in the door opening. Operational descriptions shall fully detail how each electrical component will function within the opening, including all conditions of ingress and egress. Provide a copy with each hardware schedule submitted for approval. Supply a copy with delivery of hardware to the jobsite and another copy to the Owner at the time of project completion.
3. Submittal Sequence: Submit final schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work that is critical in the Project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by door hardware, and other information essential to the coordinated review of schedule.
4. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.

D. Provide samples if requested of each type of exposed hardware unit in finish indicated and tagged with full description for coordination with schedule. Submit samples prior to submission of final hardware schedule.

1. Samples will be returned to the supplier. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated in the Work, within limitations of keying

coordination requirements.

E. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

F. Contract closeout submittals:
1. Operation and maintenance data: Complete information for installed door hardware.
2. Warranty: Completed and executed warranty forms.

1.5 Quality Assurance

A. Single Source Responsibility: Obtain each type of hardware (latch and locksets, hinges, closers, etc.) from a single manufacturer.
1. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced Architectural Hardware Consultant (AHC) who is available for consultation to Owner, Architect, and Contractor, at reasonable times during the course of the Work.

B. Coordination Meetings:
1. Contractor to set up and attend the following:
a. Lock distributor to meet with the Owner to finalize lock functions and keying requirements and to obtain final instructions in writing.
b. Lock distributor and lock, closer and exit device manufacturer to meet with the installer prior to beginning of installation of door hardware. Instruct installer on proper installation of specified products.
2. General Contractor to set up and attend the following:
3. Meet with the Owner, General Contractor, Supplier, electrical and security contractors to coordinate all electrical hardware items. Supplier to provide riser diagrams, elevation drawings, wiring diagrams and operational descriptions as required by the General and sub-contractors.

C. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 requirements of authorities having jurisdiction.
1. Provide only items of door hardware that are listed and tested by UL or Warnock Hersey for given type/size opening and degree of label. Provide proper latching hardware, door closers, approved-bearing hinges and seals whether listed in the Hardware Schedule or not. All hardware to comply with State and local codes and UL 10C.
2. Where emergency exit devices are required on fire-rated doors, (with supplementary marking on doors' UL labels indicating "Fire Door to be equipped with Fire Exit Hardware") provide UL label on exit devices indicating "Fire Exit Hardware".

D. All hardware is to comply with Federal and State Handicap laws.

E. Substitutions: Request for substitutions of items of hardware other than those listed as "acceptable and approved" shall be made to the architect in writing no later than fourteen (14) days prior to bid opening. Approval of substitutions will only be given in writing or by Addenda. Requests for substitutions shall be accompanied by samples and/or detailed information for each manufacturer of each product showing design, functions, material thickness and any other pertinent information needed to compare your product with that

specified. Lack of this information will result in a refusal.

F. Pre-Installation Coordination:
1. Installation of hardware shall be installed or directly supervised and inspected by a skilled installer certified by the manufacturer of locksets, door closers, and exit devices used on the project, or with not less than 3 years' experience in successful completion of projects similar in size and scope.
2. Schedule a hardware pre-installation meeting on site to review and discuss the installation of continuous hinges, locksets, door closers, exit devices, overhead stops, and electromechanical door hardware.
3. Meeting attendees shall be notified 7 days in advance and shall include: Architect, Contractor, Door Hardware Installers (including low voltage hardware), Manufacturers representatives for above hardware items, and any other effected subcontractors or suppliers.
4. All attendees shall be prepared to distribute installation manuals, hardware schedules, templates, and physical hardware samples.

1.6 Product Handling

A. Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.

B. Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.

C. Inventory door hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.

D. Deliver individually packaged door hardware items promptly to place of installation (shop or Project site).

E. Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the Work will not be delayed by hardware losses both before and after installation.

1.7 Warranty

A. Special warranties:
1. Cylindrical Locks and Cylinders: Ten period Year Period
2. Door Closers: Twenty Five Year Period
3. Exit Devices: Ten Year Period
4. Electrified Exit Devices: Three Year Period

1.8 Maintenance

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions that are packed in hardware items for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

B. Parts kits: Furnish manufacturers' standard parts kits for locksets, exit devices, and door closers.

2.0 - PRODUCTS

2.1 Manufactured Units

A. Hinges:

1. Acceptable manufacturers:
    a. Ives*
    b. Bommer
    c. McKinney
2. Characteristics:
    a. Templates: Provide only template-produced units.
    b. Screws: Provide Phillips flat-head screws complying with the following requirements:
        1) For metal doors and frames install machine screws into drilled and tapped holes.
        2) For wood doors and frames install threaded-to-the-head wood screws.
        3) For fire-rated wood doors install #12 x 1-1/4 inch, threaded-to-the-head steel wood screws.
        4) Finish screw heads to match surface of hinges or pivots.
    c. Hinge pins: Except as otherwise indicated, provide hinge pins as follows:
        1) Out-Swing Exterior Doors: Non-removable pins.
        2) Out-Swing Corridor Doors with Locks: Non-removable pins.
        3) Interior Doors: Non-rising pins.
        4) Tips: Flat button and matching plug. Finished to match leafs.
    d. Size: Size hinges in accordance with specified manufacturer's published recommendations.
    e. Quantity: Furnish one pair of hinges for all doors up to 5'-0" high. Furnish one hinge for each additional 2-1/2 feet or fraction thereof, unless otherwise specified in Hardware Headings.

B. Geared Continuous Hinges:
1. Acceptable manufacturers:
    a. Ives*
    b. Select Products
    c. Markar
2. Characteristics:
    a. Continuous gear hinges to be manufactured of extruded 6063-T6 aluminum alloy with anodized finish, or factory painted finish as scheduled.
    b. All hinges are to be manufactured to template. Uncut hinges to be non-handed and to be a pinless assembly of three interlocking extrusions applied to the full height of the door and frame without mortising.
    c. Vertical door loads to be carried on chemically lubricated polyacetal thrust bearings. The door and frame leaves to be continually geared together for the entire hinge length and secured with a full cover channel. Hinge to operate to a full 180°.
    d. Hinges to be milled, anodized and assembled in matching pairs. Fasteners supplied to be steel self-drilling, self-tapping 12-24 x ¾" screws.
    e. Provide UL listed continuous hinges at fire doors. Continuous hinges at fire doors (suffix -FR) to meet the required ratings without the use of auxiliary fused pins or studs.

C. Cylinders and Keying:
1. Acceptable manufacturers:
    a. Match existing keying system
2. Characteristics:
    a. Existing System: Grandmaster key the locks to the Owner's existing Schlage system, with a new master key for the Project.
    b. Review the keying system with the Owner and provide the type required

(master, grandmaster or great-grandmaster), either new or integrated into Owner’s existing system.

c. Metals: Construct lock cylinder parts from brass or bronze, stainless steel, or nickel silver.

d. Comply with Owner's instructions for master keying and, except as otherwise indicated, provide individual change key for each lock that is not designated to be keyed alike with a group of related locks.

e. Permanently inscribe each key with number of lock that identifies cylinder manufacturer's key symbol, and notation, “DO NOT DUPLICATE”.

f. Key Material: Provide keys of nickel silver only.

g. Furnish the following Key Quantities:

1) Three (3) change keys for each lock.

2) Five (5) master keys for each master system.

3) Five (5) grandmaster keys for each grandmaster system.

4) Ten (10) construction master keys.

5) Two (2) construction Control Keys.

6) One (1) extra blank for each lock.

h. Furnish construction master keys to General Contractor.

1) Deliver keys to Owner.

D. Extra Heavy Duty Cylindrical Locks and Latches:

1. Acceptable manufacturers:

a. Schlage ND Series*

b. Sargent 10 Line Series

c. Corbin CL3300 Series

2. Required Features:

a. Chassis: Cylindrical design, corrosion-resistant plated cold-rolled steel.

b. Locking Spindle: Stainless steel, interlocking design.

c. Latch Retractors: Forged steel. Balance of inner parts: Corrosion-resistant plated steel, or stainless steel.

d. Lever Trim: Accessible design, independent operation, spring-cage supported, minimum 2" clearance from lever mid-point to door face.

e. All lock functions: 7 year warranty, Vandalguard function outside lever is disengaged when in the locked mode.

f. Rosettes: Minimum 3-7/16" diameter for coverage of ANSI/DHI A115.18, 1994 door preparation, through-bolt lugs on both spring cages to fully engage this pattern.

g. Springs: Full compression type.

h. Electric operation: Manufacturer-installed continuous duty solenoid.

i. Strikes: 16 gage curved steel, bronze or brass with 1" deep box construction, lips of sufficient length to clear trim and protect clothing.

j. Scheduled Lock Series and Design: **Field verify and match existing keying system.**

k. Certifications:

1) ANSI A156.2, 1994, Series 4000, Grade 1. Tested to exceed 3,000,000 cycles.

2) UL listed for A label single doors up to 4 ft x 8 ft.

E. Exit Devices:

1. Acceptable manufacturers:

a. Von Duprin 98 Series*

b. Sargent 8000 Series

c. Precision Apex 2100

2. Characteristics:

a. Exit devices to be UL Listed for life safety. Exit devices for fire rated

openings to have “UL" labels for “Fire Exit Hardware."

b. Exit devices mounted on labeled wood doors to be mounted on the door per the door manufacturer’s requirements.
c. All trim to be thru-bolted to the lock stile case.
d. Lever trim to be solid case material with a break-away feature to limit damage to the unit from vandalism. Lever design to match locksets.
e. All exit devices to be made of brass, bronze, stainless steel, or aluminum material, powder coated, anodized, or plated to the standard architectural finishes to match the balance of the door hardware.
f. Provide glass bead conversion kits to shim exit devices on doors with raised glass beads.
g. All exit devices to be one manufacturer. No deviation will be considered.
h. All series exit devices to incorporate a fluid damper, which decelerates the touchpad on its return stroke and eliminates noise associated with exit device operation. All exit devices to be non-handed. Touchpad to extend a minimum of 1/2 of the door width and to extend to the height of the cross rail housing for a “no pinch” operation. Plastic touchpads are not acceptable. All latchbolts to be the deadlocking type. Latchbolts to have a self-lubricating coating to reduce wear. Plated or plastic coated latchbolts are not acceptable. Plastic linkage and “dogging” components are not acceptable.
i. Surface vertical rod devices to be UL labeled for fire door applications without the use of bottom rod assemblies. Where bottom rods are required for security applications, the devices to be UL labeled for fire doors applications with rod and latch guards by the device manufacturer.
j. Exit devices to include impact resistant, flush mounted end cap design to avoid damage due to carts and other heavy objects passing through an opening. End cap to be of heavy-duty metal alloy construction and provide horizontal adjustment to provide alignment with device cover plate. When exit device end cap is installed, no raised edges will protrude.

F. Closers and Door Control Devices:
1. Acceptable manufacturers:
a. LCN Closers 4050 Series*
b. Falcon SC70 Series
c. Norton 7500 Series
2. Characteristics:
a. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
b. Provide door closers with fully hydraulic, full rack and pinion action with cast aluminum cylinder.
c. Body: 1-1/2 inch (38 mm) diameter with 11/16 inch (17 mm) diameter heat-treated pinion journal and full complement bearings.
d. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and all weather requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
e. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
f. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and back check.
g. Pressure Relief Valve (PRV) Technology: Not permitted.
h. Provide stick on templates, special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops,

and other door hardware items interfering with closer mounting.

G. Overhead Door Holders:
   1. Acceptable manufacturers:
      a. Glynn Johnson*
      b. Rixson Firemark
   2. Characteristics:
      a. Provide heavy duty concealed door holders of stainless steel.
      b. Provide heavy duty surface mounted door holders of stainless steel.
      c. Concealed holders to be installed with the jamb bracket mortised flush with the bottom of the jamb. The arm and channel to be mortised into the door.
      d. Surface holders to be installed with the jamb bracket mounted on the stop.

H. Floor Stops and Wall Bumpers:
   1. Acceptable manufacturers:
      a. Ives*
      b. Trimco
      c. Rockwood Manufacturing
   2. Characteristics: Refer to Hardware Headings.

I. Door Bolts/Coordinators:
   1. Acceptable manufacturers:
      a. Ives*
      b. Trimco
      c. Rockwood Manufacturing
   2. Characteristics:
      a. Flush bolts to be forged brass 6-3/4" x 1", with 1/2" diameter bolts. Plunger to be supplied with milled surface one side that fits into a matching guide.
      b. Automatic flush bolts to be UL listed as top and bottom bolts on a pair of classified fire doors. Bolt construction to be of rugged steel and brass components.
      c. Self-latching flush bolts to be UL listed as top and bottom bolts on a pair of classified fire doors. Bolt construction to be of rugged steel and brass components.
      d. Automatic flush bolts and self-latching flush bolts to be UL listed for fire door application without bottom bolts (LBB).
      e. Furnish dust proof bottom strikes.
      f. Coordinator to be soffit mounted non-handed fully automatic UL listed coordinating device for sequential closing of paired doors with or without astragals.
      g. Provide filler piece to close the header. Provide brackets as required for mounting of soffit applied hardware.

J. Push Plates:
   1. Acceptable manufacturers:
      a. Ives*
      b. Trimco
      c. Rockwood Manufacturing
   2. Characteristics:
      a. Exposed Fasteners: Provide manufacturers standard exposed fasteners.
      b. Material to be forged stainless steel, per the Hardware Headings.
      c. Provide plates sized as shown in Hardware Headings.

K. Door Pulls & Pull Plates:
   1. Acceptable manufacturers:
      a. Ives*
      b. Trimco
      c. Rockwood Manufacturing
   2. Characteristics:
      a. Provide concealed thru-bolted trim on back to back mounted pulls, but not for single units.
      b. Material to be forged stainless steel.
      c. Provide units sized as shown in Hardware Headings.

L. Push Pull Sets:
   1. Acceptable manufacturers:
      a. Ives*
      b. Trimco
      c. Rockwood Manufacturing
   2. Characteristics:
      a. Provide mounting systems as shown in hardware sets.
      b. Material to be tubular stainless steel.
      c. Provide Push/Pull sets sized as shown in Hardware Headings.

M. Protective Plates:
   1. Acceptable manufacturers:
      a. Ives*
      b. Trimco
      c. Rockwood Manufacturing
   2. Characteristics:
      a. Provide manufacturers standard exposed fasteners for door trim units consisting of either machine screws or self-tapping screws.
      b. Materials:
      c. Metal Plates: Stainless Steel, .050 inch (U.S. 18 gage).
      d. Fabricate protection plates not more than 2 inches less than door width on push side and not more than 1 inch less than door width on pull side.
      e. Sizes:
         1) Refer to hardware headings for specific sizes.
         2) Kick plates to be 8 inches in height.
         3) Mop plates to be 6 inches in height.
         4) Kick plates and Mop plates to be 1” less that bottom rail height where applicable.
         5) Armor plates to be 34 inches in height. Armor plates on fire doors to comply with NFPA 80.

N. Thresholds:
   1. Acceptable manufacturers:
      a. Zero Weatherstripping Co., Inc.*
      b. Pemko
      c. Reese Industries
   2. Types: Indicated in Hardware Headings.

O. Door Seals/Gasketing:
   1. Acceptable manufacturers:
      a. Zero Weatherstripping Co., Inc.*
      b. Pemko
      c. Reese Industries
   2. Types: Indicated in Hardware Headings.

P. Silencers:
1. Acceptable manufacturers:
a. Ives*
b. Hager
c. Rockwood Manufacturing
2. Provide three for each single door; two for each pair of doors.

Q. Key Cabinet and System: (AS REQUIRED)
1. Acceptable manufacturers:
a. Telkee, Inc.
2. Provide a key control system including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150 percent of the number of locks required for the project.
3. Provide complete cross index system set up by key control distributor, and place keys on markers and hooks in the cabinet as determined by the final key schedule.
4. Provide hinged-panel type cabinet for wall mounting.
5. Provide multiple-drawer type cabinet.

R. Knox Box:
1. Acceptable manufacturers: (AS REQUIRED)
a. Knox Box 3200 Series.
2. Provide one surface mount Knox Box 3200 Series.
3. Provide unit compatible with the local Fire Department Knox key system.
4. General contractor shall install in location provided by architect.

2.2 Materials and Fabrication

A. Manufacturer's Name Plate: Do not use manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise acceptable to Architect.
1. Manufacturer's identification will be permitted on rim of lock cylinders only.

B. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI/BHMA A156 series standards for each type of hardware item and with ANSI/BHMA A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.

C. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
1. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.
2. Furnish screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including “prepared for paint" surfaces to receive painted finish.
3. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners.
4. Use thru-bolts for installation of all exit devices, closers, and surface-mounted

overhead stops. Coordinate with wood doors and metal doors and frames. Where thru-bolts are used, provide sleeves for each thru-bolt as a means of reinforcing the work, or provide sex nuts and bolts.

2.3 Hardware Finishes

A. Match items to the manufacturer's standard color and texture finish for the latch and lock sets (or push-pull units if no latch or lock sets).

B. Provide finishes that match those established by ANSI or, if none established, match the Architect's sample.

C. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

D. Provide protective lacquer coating on all exposed hardware finishes of brass, bronze, and aluminum, except as otherwise indicated. The suffix "-NL" is used with standard finish designations to indicate "no lacquer."

E. The designations used to indicate hardware finishes are those listed in ANSI/BHMA A156.18, "Materials and Finishes," including coordination with the traditional U.S. finishes shown by certain manufacturers for their products.

F. All hardware to be 626 (US26D), 652 (US26D) Satin Chrome Finish, with the following exceptions:
   1. Continuous Hinges: 628 (US28) Clear Anodized Aluminum
   2. Door Closers: 689 Powder Coat Aluminum
   3. Push Plates: 630 (US32D) Satin Stainless Steel
   4. Pull Plates: 630 (US32D) Satin Stainless Steel
   5. Protective Plates: 630 (US32D) Satin Stainless Steel
   6. Overhead Holders: 630 Satin Stainless Steel

3.0 - EXECUTION

3.1 Installation:

A. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by Architect.
   1. "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
   2. "Recommended Locations for Builders Hardware for Custom Steel Doors and Frames" by the Door and Hardware Institute.
   3. NWWDA Industry Standard I.S.1.7, "Hardware Locations for Wood Flush Doors."

B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.

C. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

D. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

E. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Division 7 Section “Joint Sealers”.

F. Weatherstripping and Seals: Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.

3.2 Adjusting, Cleaning, and Demonstrating

A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.

1. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to function properly with final operation of heating and ventilating equipment.

B. Clean adjacent surfaces soiled by hardware installation.

C. Door Hardware Supplier's Field Service:

1. Inspect door hardware items for correct installation and adjustment after complete installation of door hardware.
2. Instruct Owner's personnel in the proper adjustment and maintenance of door hardware and hardware finishes.
3. File written report of this inspection to Architect.

3.3 Hardware Schedule

SET: 01.0
DOORS: 1100A, 1143A
EACH TO RECEIVE:

2	**CONTINUOUS HINGE**	**112XY EPT LAR**	**ALUM**	**IV**
2	**POWER TRANSFER**	**EPT10 CON**	**SP28**	**VO**
1	**REMOVABLE MULLION**	**KR4954 STAB**	**689**	**VO**
1	**EXIT DEVICE WITH ELR**	**LXRX-LC-QEL-98-EO-CON**	**US26D**	**VO**
1	**EXIT DEVICE WITH ELR**	**LXRX-LC-QEL-98-NL-OP-110MD-CON**	**US26D**	**VO**
1	**CYLINDER**	**20-061**	**626**	**SC**
1	**CYLINDER**	**20-079**	**626**	**SC**
2	**IC CORE**	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
2	**OFFSET PULLS**	**8190EZHD-2**	**US32D**	**IV**
2	**OVERHEAD STOPS**	**100S**	**630**	**GL**
2	**SURFACE CLOSER**	**4021 REG 4020-18 MC TBSRT**	**689**	**LC**
1	**MULLION SEAL**	**139N PSA [MOUNT ON MULLION FACE]**		**ZE**
1	**THRESHOLD**	**655A**	**628**	**ZE**
1	**WEATHER SEALS**	**BY DOOR MANUFACTURER**		
1	**EXIT POWER SUPPLY**	**PS904 900-4RL**		**VO**
2	**WIRING HARNESS**	**CON 192P**		**VO**
2	**WIRING HARNESS**	**CON 6W**		**VO**
1	**KEYPAD/READER**	**BY SECURITY CONTRACTOR**		
1	**VIDEO DOOR STATION**	**IS-IPDVF**		**AP**
2	**DOOR POSITION SWITCH**	**679-05HM**		**VO**

CARD READER RETRACTS EXIT DEVICE LATCH BOLT FOR ADJUSTABLE TIME PERIOD. TOUCH PAD MICRO SWITCHES PROVIDE REQUEST TO EXT SIGNAL TO ACCESS CONTROL SOFTWARE. DOOR POSITION SWITCH REPORT DOORS OPEN OR CLOSED.
ACCESS CONTROL INTEGRATOR TO COORDINATE FUNCTIONALITY OF CARD READER SYSTEM.

SET: 02.0
DOORS: 1101A
EACH TO RECEIVE:

2	**CONTINUOUS HINGE**	**112XY EPT LAR**	**ALUM**	**IV**
2	**POWER TRANSFER**	**EPT10 CON**	**SP28**	**VO**
1	**REMOVABLE MULLION**	**KR4954 STAB**	**689**	**VO**
1	**EXIT DEVICE WITH ELR**	**LXRX-LC-QEL-98-EO-CON**	**US26D**	**VO**
1	**EXIT DEVICE WITH ELR**	**LXRX-LC-QEL-98-NL-OP-110MD-CON**	**US26D**	**VO**
1	**CYLINDER**	**20-061**	**626**	**SC**
1	**CYLINDER**	**20-079**	**626**	**SC**
2	**IC CORE**	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
2	**OFFSET PULLS**	**8190EZHD-2**	**US32D**	**IV**
2	**OVERHEAD STOPS**	**100S**	**630**	**GL**
2	**SURFACE CLOSER**	**4021 REG 4020-18 MC TBSRT**	**689**	**LC**
1	**MULLION SEAL**	**139N PSA [MOUNT ON MULLION FACE]**		**ZE**
1	**WEATHER SEALS**	**BY DOOR MANUFACTURER**		
1	**EXIT POWER SUPPLY**	**PS904 900-4RL**		**VO**
2	**WIRING HARNESS**	**CON 192P**		**VO**
2	**WIRING HARNESS**	**CON 6W**		**VO**
1	**KEYPAD/READER**	**BY SECURITY CONTRACTOR**		
2	**DOOR POSITION SWITCH**	**679-05HM**		**VO**
1	**DESK MOUNT BUTTON**	**660 PB**		**SC**

CARD READER RETRACTS EXIT DEVICE LATCH BOLT FOR ADJUSTABLE TIME PERIOD. TOUCH PAD MICRO SWITCHES PROVIDE REQUEST TO EXT SIGNAL TO ACCESS CONTROL SOFTWARE. DOOR POSITION SWITCH REPORT DOORS OPEN OR CLOSED. REMOTE PUSH BUTTON FROM RECEPTION TO UNLOCK HARDWARE AND ALLOW PASSAGE MOMENTARILY.
ACCESS CONTROL INTEGRATOR TO COORDINATE FUNCTIONALITY OF CARD READER SYSTEM.

SET: 03.0
DOORS: 1123B
EACH TO RECEIVE:

3	**HINGES**	**5BB1HW 4.5 X 4.5 NRP**	**630**	**IV**
1	**POWER TRANSFER**	**EPT10 CON**	**SP28**	**VO**
1	**EXIT DEVICE WITH ELR**	**LXRX-LC-QEL-98-NL-OP-110MD-CON**	**US26D**	**VO**
1	**CYLINDER**	**20-079**	**626**	**SC**
1	**IC CORE**	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1	**OFFSET PULLS**	**8190EZHD-2**	**US32D**	**IV**
1	**SURFACE CLOSER**	**4050A SCUSH MC TBWMS**	**689**	**LC**
1	**THRESHOLD**	**65A**	**AL**	**ZE**
1	**RAIN DRIP**	**142AA**	**AL**	**ZE**
1	**GASKETING**	**8144SBK PSA**	**AL**	**ZE**
1	**SWEEP**	**8198AA**	**AL**	**ZE**
1	**EXIT POWER SUPPLY**	**PS904 900-4RL**		**VO**
1	**WIRING HARNESS**	**CON 192P**		**VO**
1	**WIRING HARNESS**	**CON 6W**		**VO**
1	**KEYPAD/READER**	**BY SECURITY CONTRACTOR**		
1	**DOOR POSITION SWITCH**	**679-05HM**		**VO**

CARD READER RETRACTS EXIT DEVICE LATCH BOLT FOR ADJUSTABLE TIME PERIOD. TOUCH PAD MICRO SWITCHES PROVIDE REQUEST TO EXT SIGNAL TO ACCESS CONTROL SOFTWARE. DOOR POSITION SWITCH REPORT DOORS OPEN OR CLOSED.

SET: 04.0
DOORS: 1113C, 1118B, 1124D, 1124E, 1129D
EACH TO RECEIVE:

3 HINGES	**5BB1HW 4.5 X 4.5 NRP**	**630**	**IV**
1 POWER TRANSFER	**EPT10 CON**	**SP28**	**VO**
1 ELECTRIFIED LOCK	**L9092EUJ 17A LX DM**	**630**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 SURFACE CLOSER	**4050A SCUSH MC TBWMS**	**689**	**LC**
1 THRESHOLD	**65A**	**AL**	**ZE**
1 RAIN DRIP	**142AA**	**AL**	**ZE**
1 GASKETING	**8144SBK PSA**	**AL**	**ZE**
1 SWEEP	**8198AA**	**AL**	**ZE**
1 EXIT POWER SUPPLY	**PS904**		**VO**
1 WIRING HARNESS	**CON 192P**		**VO**
1 WIRING HARNESS	**CON LAR**		**VO**
1 KEYPAD/READER	**BY SECURITY CONTRACTOR**		
1 DOOR POSITION SWITCH	**679-05HM**		**VO**

CARD READER RETRACTS EXIT DEVICE LATCH BOLT FOR ADJUSTABLE TIME PERIOD. TOUCH PAD MICRO SWITCHES PROVIDE REQUEST TO EXT SIGNAL TO ACCESS CONTROL SOFTWARE. DOOR POSITION SWITCH REPORT DOORS OPEN OR CLOSED.

SET: 05.0
DOORS: 1123A
EACH TO RECEIVE:

6 HINGES	**5BB1HW 5 X 4.5**	**626**	**IV**
1 SVR EXIT DEVICE	**9827EO-F**	**US26D**	**VO**
1 SVR EXIT DEVICE	**9827L-F**	**US32D**	**VO**
1 CYLINDER	**20-079**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
2 SURFACE CLOSER	**4050A REG MC TBWMS**	**689**	**LC**
2 FIRE HOLD OPEN	**SEM7800**	**689**	**VO**
2 WALL STOP	**WS401/402CVX**	**626**	**IV**
2 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 06.0
DOORS: 1122A, 1144A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5 NRP**	**630**	**IV**
1 LOCKSET	**ND80J SPA**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 SURFACE CLOSER	**4050A SCUSH MC TBWMS**	**689**	**LC**
1 THRESHOLD	**560A**	**628**	**ZE**
1 SWEEP	**8198AA**	**628**	**ZE**
1 WEATHER STRIP	**8144S-BK**	**DKB**	**ZE**
1 OH DRIP CAP	**142A**	**628**	**ZE**

SET: 07.0
DOORS: 1102A, 1109B, 1113A, 1117B, 1118A, 1124A, 1128A, 1128B, 1129A, 1136A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND50J SPA IS-LOC**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 SURFACE CLOSER	**1450 RWPA MC**	**689**	**LC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 MOP PLATE	**8400 6" X 1" LDW X B-CS**	**630**	**IV**
1 WALL STOP	**WS401/402CVX**	**626**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 08.0
DOORS: 1112A, 1133A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND80J SPA**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 SURFACE CLOSER	**1450 SCUCH MC**	**689**	**LC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 MOP PLATE	**8400 6" X 1" LDW X B-CS**	**630**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 09.0
DOORS: 1109A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND70J SPA**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 SURFACE CLOSER	**1450 SCUCH MC**	**689**	**LC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 MOP PLATE	**8400 6" X 1" LDW X B-CS**	**630**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 10.0
DOORS: 1134A, 1135A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 PASSAGE	**ND10S SPA**	**626**	**SC**
1 SURFACE CLOSER	**1450 RWPA MC**	**689**	**LC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 MOP PLATE	**8400 6" X 1" LDW X B-CS**	**630**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 11.0
DOORS: 1106A, 1116A, 1119A, 1127A, 1132A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND70J SPA**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 OVERHEAD STOP	**104H**	**630**	**IV**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 12.0
DOORS: 1108A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND80J SPA**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 OVERHEAD STOP	**104H**	**630**	**IV**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 13.0
DOORS: 1115A, 1121A, 1126A, 1131A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND70J SPA**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 WALL STOP	**WS401/402CVX**	**626**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 14.0
DOORS: 1138A, 1139A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND70J SPA**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 MOP PLATE	**8400 6" X 1" LDW X B-CS**	**630**	**IV**
1 WALL STOP	**WS401/402CVX**	**626**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 15.0
DOORS: 1104A, 1105A, 1107A, 1114A, 1120A, 1125A, 1130A, 1140A, 1202A, 1203A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND50J SPA**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 WALL STOP	**WS401/402CVX**	**626**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 16.0
DOORS: 1117A, 1129B, 1141A, 1204A
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 LOCKSET	**ND50J SPA IS-LOC**	**626**	**SC**
1 IC CORE	**23-030 50-002 VKC GMK PKI 60-001**	**626**	**SC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 MOP PLATE	**8400 6" X 1" LDW X B-CS**	**630**	**IV**
1 WALL STOP	**WS401/402CVX**	**626**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

SET: 17.0
DOORS: 1110A, 1111A, 1117A, 1129B
EACH TO RECEIVE:

3 HINGES	**5BB1 4.5 X 4.5**	**652**	**IV**
1 PRIVACY	**ND40J SPA**	**626**	**SC**
1 KICK PLATE	**8400 10 X 2" LDW X B-CS**	**630**	**IV**
1 MOP PLATE	**8400 6" X 1" LDW X B-CS**	**630**	**IV**
1 WALL STOP	**WS401/402CVX**	**626**	**IV**
3 SILENCERS	**SR64**	**GRAY**	**IV**

END OF SECTION

SECTION 012100 – ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements governing allowances.

B. Types of allowances include the following:

1. Lump-sum allowances.
2. Unit-cost allowances.
3. Quantity allowances.
4. Contingency allowances.
5. Testing and inspecting allowances.

C. Related Requirements:

1. Section 012200 "Unit Prices" for procedures for using unit prices, including adjustment of quantity allowances when applicable.
2. Section 014000 "Quality Requirements" for procedures governing the use of allowances for field testing by an independent testing agency.

1.3 DEFINITIONS

A. Allowance is a quantity of work or dollar amount established in lieu of additional requirements, used to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

1.4 SELECTION AND PURCHASE

A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase and delivery, of each product or system described by an allowance must be completed by the Owner to avoid delaying the Work.

B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.

C. Purchase products and systems selected by Architect from the designated supplier.

1.5 ACTION SUBMITTALS

A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.

1.6 INFORMATIONAL SUBMITTALS

A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.

B. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.

C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.7 LUMP-SUM ALLOWANCES

A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight, and delivery to Project site.

B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.

C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.

1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

1.8 UNIT-COST ALLOWANCES

A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight, and delivery to Project site.

B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.

C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.

1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

1.9 QUANTITY ALLOWANCES

A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight, and delivery to Project site.

B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.

C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.

1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

1.10 CONTINGENCY ALLOWANCES

A. Use the contingency allowance only as directed by Architect for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.

B. Contractor's overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs.

C. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit.

D. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

1.11 TESTING AND INSPECTING ALLOWANCES

A. Testing and inspecting allowances include the cost of engaging testing agencies, actual tests and inspections, and reporting results.

B. The allowance does not include incidental labor required to assist the testing agency or costs for retesting if previous tests and inspections result in failure. The cost for incidental labor to assist the testing agency shall be included in the Contract Sum.

C. Costs of testing and inspection services not required by the Contract Documents are not included in the allowance.

D. At Project closeout, credit unused amounts remaining in the testing and inspecting allowance to Owner by Change Order.

1.12 ADJUSTMENT OF ALLOWANCES

A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.

1. Include installation costs in purchase amount only where indicated as part of the allowance.
2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other markups.
3. Submit substantiation of a change in scope of Work, if any, claimed in Change Orders related to unit-cost allowances.
4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.

B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.

1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of Work has changed from what could have been foreseen from information in the Contract Documents.

2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

A. Schedule of Allowances

1. Allowance No. 1: Reinforcing Steel (Unit Price #1)
   a. Quantity Allowance – Base Bid: Contractor shall include in the Base Bid a quantity allowance for **3 tons of reinforcing steel not otherwise indicated**. This allowance is in addition to the reinforcing steel quantities shown on the Contract Documents.
   b. The Contractor shall furnish, detail, fabricate, deliver, and install this allowance material at no additional cost to the Owner in sizes and at locations as directed by the Architect or Structural Engineer. Any unused portion of this allowance will be credited to the Owner.
2. Allowance No. 2: Concrete Quantity (Unit Price #2)
   a. Quantity Allowance – Base Bid: Contractor shall include in the Base Bid a quantity allowance for **70 cubic yards of concrete not otherwise indicated**. This allowance is in addition to the concrete quantities shown on the Contract Documents.
   b. The Contractor shall furnish, deliver, and install this allowance material at no additional cost to the Owner in sizes and at locations as directed by the Architect or Structural Engineer. Any unused portion of this allowance will be credited to the Owner.
3. Allowance No. 3: Undercutting and replacement of unsuitable soils (Unit Price #3)
   a. Quantity Allowance: Contractor shall include in the Base Bid a quantity allowance for the undercutting and replacement of unsuitable soils in the amount of **3,400 cubic yards (CY) not otherwise indicated**. This allowance is in addition to any undercutting or unsuitable soil removal shown on the Contract Documents.
   b. The Contractor shall perform this work at no additional cost to the Owner in the sizes, depths, and locations as directed by the Architect, Civil Engineer, or Geotechnical Engineer. The Contractor shall submit unit prices for this work with their bid for both additional quantities and for credit of unused quantities. Any unused portion of this allowance will be credited to the Owner.
4. Allowance No. 4: Lump Sum Allowance Access controls
   a. Lump Sum Allowance: Contractor shall include in the Base Bid a lump sum allowance of **$28,000.00** for the complete access control system.
   b. This allowance is based on the SELCOM proposal dated April 02, 2026 (Estimate Reference: 2026-04-02-FVVNYD). The allowance includes all equipment, materials, labor, programming, testing, commissioning, and integration required for the Paxton access control system serving six (6) doors plus the video intercom at the main entrance.
   c. Any unused portion of this allowance will be credited to the Owner.
5. Allowance No. 5: CCTV / Video Surveillance Lump Sum Allowance
   a. Lump Sum Allowance: Contractor shall include in the Base Bid a lump sum allowance of **$35,000.00** for the complete CCTV / Video Surveillance System.
   b. This allowance is based on the SELCOM proposal dated April 02, 2026 (Estimate Reference: 2026-04-02-8XT2SH). The allowance includes all equipment, materials, labor, programming, testing, commissioning, and integration required for the Turing Video System, including the NVR, cameras, hard drives, junction boxes, licenses, and all associated cabling and accessories.
   c. Any unused portion of this allowance will be credited to the Owner.
6. Allowance No. 6 – Lump Sum Allowance – BI-Directional Amplifier (BDA) System (Unit Price #4)
   a. Lump Sum Allowance: Contractor shall include in the Base Bid a lump sum allowance of **$15,000.00** for the Bi-Directional Amplifier (BDA).

b. This allowance is intended to cover any additional requirements to the BDA system that are beyond the scope as described on the electrical drawings and in Specification Section 28500.

c. The Contractor shall also provide unit pricing for the installation and testing of the BDA system as described in Specification Section 012200 – Unit Prices.

7. Allowance No. 7: Masonry

   a. Unit Allowance: Include an allowance of $600 per thousand for face brick.

8. Allowance No. 8: Masonry

   a. Unit Allowance: Include an allowance of $20 per bag for pigmented mortar.

9. Allowance No. 9: Project Contingency

   a. Contingency Allowance: Include a contingency allowance of $250,000.00 for use as instructed by the Owner or Architect.

END OF SECTION 012100

SECTION 085630 – SERVICE WINDOWS

PART 1 - 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:
   1. Fire Rated Steel Windows (Horizontal Slider) – 45-Minute UL Labeled
   2. Aluminum Windows (Horizontal Slider) – Non-Rated

B. Related Requirements:
   1. Section 088000 – Glass, Glazing, and Glazing Materials

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions.

B. Shop Drawings:
   1. Include plans, elevations, sections, and details.
   2. Detail attachments to other work, and between units, if any.
   3. Include hardware and required clearances.
   4. Mullion details, including reinforcement and stiffeners.
   5. Glazing details.
   6. Accessories.

C. Samples for Initial Selection: For units with factory-applied color finishes.

1.4 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For cold-rolled steel windows, for tests performed by a qualified testing agency.

B. Sample Warranties: For special warranty.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A firm with not less than 10 years experience in manufacture of similar type steel windows.

B. Installer Qualifications: Experienced in performing work of this section who has specialized in installation of work similar to that required for this project.

1.6 WARRANTY

A. Manufacturer's Special Warranty: Manufacturer agrees to repair or replace components of cold-rolled steel windows that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Failure to meet performance requirements.
      b. Structural failures, including excessive deflection.
      c. Excessive water leakage or air infiltration.
      d. Faulty operation of operable sash and hardware.
      e. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
   2. Warranty Period:
      a. Window: Three years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 FIRE-RATED COLD-ROLLED STEEL WINDOWS

A. Basis-of Design Products
   1. Series 900 Horizontal Sliding Windows as manufactured by D.V. Fyre-Tec, Inc.

2. FR7600TSS Horizontal Sliding Windows as manufactured by Optimum Window
3. Steel Sliding Fire Windows as manufactured by Nissen & Company
4. Or approved equal.

B. Performance Requirements:
1. Horizontal sliding steel windows shall conform to the HS-C30 voluntary specifications in AAMA/NWWDA 101/I.S.2-97 and be designed to meet the following performance requirements. Fire-rated windows shall bear the Underwriters Laboratories, Inc. label including the manufacturer's file number for the indicated rating.
a. Structural Performance: Structural test pressures on window units shall be for positive load (inward) and negative load (outward) in accordance with ASTM E 330 at a static pressure of 45 PSF. After testing, there shall be no glass breakage, permanent damage to fasteners, hardware parts, support arms or actuating mechanisms or any other damage which could cause window to be inoperable. There shall be no permanent deformation of any main frame, sash or ventilator member in excess of the requirements established by AAMA/NWWDA 101/I.S.2-97 for the window types specified in this section.
b. Air Infiltration: Air infiltration shall not exceed .3 SCFM per square foot of window area at a static air pressure difference of 1.57 PSF as established by AAMA/NWWDA 101/I.S.2-97 when tested in accordance with ASTM E 283.
2. Fire Protective: Fire protective rating shall meet requirements as tested and classified by Underwriters Laboratories Inc, in accordance with UL-9. Products shall meet the requirements of Underwriters Laboratories Inc. The Listing Mark of UL on the product will be accepted as evidence of compliance.

C. Types: Provide the following operating types in locations indicated on Drawings:
1. Horizontal sliding.

D. Horizontal sliding steel windows shall be designed for inside field glazing, and for glass types scheduled on drawings or otherwise specified. Units shall be complete with glass and glazing provisions to meet requirements of paragraph PERFORMANCE REQUIREMENTS. Glazing material shall be compatible with steel, and shall not require painting.

E. Fire-rated windows shall conform to UL-9 and shall be labeled with a 3/4 - hour fire-test rating as specified in the window schedule. Units shall be designed and fabricated to meet glass sizes, window sizes, and opening dimensions established by NFPA 80. Hardware shall conform to NFPA 80 requirements. All operable fire-rated windows are to be self-closing and latching by means of a heat activated fusible link operator.

F. Window Finish: Baked enamel or powder coat.
1. Color: As selected by Architect from manufacturer's full range.

G. Mullions: Formed of cold-rolled steel matching window units; with anchors for support to structure and for installation of window units and having sufficient strength to withstand design pressure indicated. Provide mullions of profile indicated and with cover plates. Allow for erection tolerances and provide for movement of window units due to thermal expansion and building deflections.

H. Sill Cap/Track: Designed to comply with performance requirements indicated and to drain to the exterior.

I. Glazing Stops: Provide [screw-applied] [snap-on] glazing stops; coordinate with Section 088000 "Glazing" and with glazing system indicated. Provide glazing stops to match panel frames. Finish glazing stops to match window units if fabricated of steel; otherwise, provide manufacturer's standard finish.

J. Weather Stripping: Manufacturer's standard compressible weather stripping, complying with AAMA 701/702, ASTM C509, or ASTM C864 and designed for permanently resilient sealing under compression and for complete concealment when sash is closed.

K. Glazing
1. Provide 45-Minute rated glazing from the following at contractor's option:
a. Fire-Protection-Rated Tempered Glass: 6-mm thickness; fire-protection-rated tempered glass; complying with 16 CFR 1201, Category II.
1) Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
a) SAFTI FIRST Fire Rated Glazing Solutions.
b) Technical Glass Products.
c) Vetrotech Saint-Gobain.
b. Fire-Protection-Rated Film-Faced Ceramic Glazing: Clear, ceramic flat glass; 5-mm thickness; faced on one surface with a clear glazing film; complying with 16 CFR 1201, Category II.
1) Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
a) SAFTI FIRST Fire Rated Glazing Solutions.
b) Schott North America, Inc.
c) Technical Glass Products.

d) Vetrotech Saint-Gobain.

L. Hardware:

1. General: Provide manufacturer's standard nonremovable, hardware, with operating components of stainless steel, carbon steel complying with AAMA 907, brass, bronze, or other corrosion-resistant material designed to smoothly operate, tightly close, and securely lock cold-rolled steel window sash; and sized to accommodate sash weight and dimensions.
2. Self-Closing Device for Fire-Rated Windows: Manufacturer's standard heat-activated self-closing device, complying with NFPA 80.
3. Horizontal-Sliding Window Hardware:
   a. Rollers: Steel, lubricated, ball-bearing rollers.
   b. Lock: Manufacturer's standard, designed to allow unobstructed movement of the sash across adjacent sash in direction indicated and to operate from the inside only.
   c. Limit Device: Manufacturer's standard.
   d. Pull Handle: Manufacturer's standard.

2.2 ACCESSORIES

A. Fasteners: Provide fasteners of bronze, brass, stainless steel, or other metal that are warranted by manufacturer to be noncorrosive and compatible with trim, hardware, anchors, and other components of cold-rolled steel windows.

1. Exposed Fasteners: Do not use exposed fasteners to the greatest extent possible. For application of hardware, use fasteners that match finish hardware being fastened.

B. Anchors, Clips, and Window Accessories: Provide units of stainless steel, hot-dip zinc-coated steel, bronze, brass, or iron complying with ASTM A123/A123M. Provide units with sufficient strength to withstand design pressure indicated.

1. Windborne-Debris-Impact Resistance: Provide anchors and clips of same design used to pass windborne-debris-impact-resistance testing.

C. Sealant: For sealants required within fabricated windows, provide manufacturer's standard, permanently elastic, nonshrinking, and nonmigrating type recommended by sealant manufacturer for joint size and movement.

2.3 FABRICATION

A. Fabricate cold-rolled steel windows of type and in sizes indicated to comply with SWI standards. Include a complete system for assembly of components and anchorage of window units.

B. Provide units that are reglazable without dismantling framing.

C. Prepare windows for site glazing.

D. Subframes and Operable Sash: Formed of cold-rolled steel of profile indicated. Miter or cope corners, and [mechanically fasten and seal joints] [or] [weld and dress joints smooth].

E. Weather Stripping: Provide full-perimeter weather stripping for each operable sash unless otherwise indicated.

F. Provide weep holes and internal water passages to conduct infiltrating water to the exterior.

G. Provide water-shed members above [casement] [horizontal-sliding] sash.

2.4 METALLIC-COATED STEEL SHEET FINISHES

A. Surface Preparation: Clean surfaces of oil and other contaminants. Use cleaning methods that do not leave residue. After cleaning, apply a conversion coating compatible with the organic coating to be applied over it. Clean welds, mechanical connections, and abraded areas and apply galvanizing repair paint, complying with SSPC-Paint 20, to comply with ASTM A780.

B. Baked-Enamel or Powder-Coat Finish: After cleaning and pretreating, apply manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat to a minimum dry film thickness of 2 mils (0.05 mm).

PART 3 - 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 the Work. Verify rough-opening dimensions, levelness of sill plate and clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weathertight window installation.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF COLD-ROLLED STEEL WINDOWS

A. Steel windows shall be installed in accordance with approved shop drawings and manufacturer's approved recommendations.

B. Fire-rated windows shall be installed in compliance with NFPA 80 and NFPA 101.

C. Steel surfaces in close proximity with masonry, concrete, wood, and dissimilar metals other than stainless steel, zinc, cadmium, or small areas of white bronze shall be protected from direct contact.

D. Verify that weep features at the bottom of the sills are opened at least 1/8" x 1". Failure to do so may lead to premature finish failures and void warranty.

E. The completed window installation shall be watertight.

3.3 ADJUSTING, CLEANING, AND PROTECTION

A. Adjust operating sashes, screens, hardware, and accessories for a tight fit at contact points and weather stripping for smooth operation and weathertight closure. Lubricate hardware and moving parts.

B. Clean factory-finished steel surfaces immediately after installing windows. Comply with manufacturer's written recommendations for final cleaning and maintenance. Avoid damaging protective coatings and finishes.

C. Protect window surfaces from contact with contaminating substances resulting from construction operations. Remove contaminants immediately according to manufacturer's written recommendations.

D. Refinish or replace windows with damaged finish.

3.4 PROTECTION

A. Protect installed products and finished surfaces from damage during construction.

B. Touch-up any abraded surface of the window finish with air dry paint furnished by the window manufacturer.

END OF SECTION 085123.23

DEMOLITION LEGEND

▨	*APPROXIMATE LIMITS OF GRAVEL, ASPHALT & CONCRETE PAVEMENT REMOVAL*
▧	*EXISTING BUILDING DEMOLITION*
-┼┼┼┼┼┼-	*EXISTING FENCE DEMOLITION*
- X X X X X X-	*EXISTING UTILITY DEMOLITION/SLURRY FILL*
— — — —	*APPROXIMATE CLEARING LIMITS*

NOTE:
1. SEE SHEET C101 FOR ALL APPLICABLE NOTES.

TTL
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10 Inverness Center Parkway, Suite 350
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SUMTER CENTRAL HIGH SCHOOL- CTE ANNEX
SUMTER COUNTY BOARD OF EDUCATION
13878 US HIGHWAY 11, YORK, AL 36925

No. 24443
CHRISTOPHER ALLEN HAWKINS
5/28/26

BID SET

DATE: 05/6/26
PROJ NO: 25-135

REVISIONS

#	DESC	DATE
1	ADD #2	5/28/26

SITE SURVEY & DEMOLITION PLAN

C201

TTL
Job No.: 251103464
10 Inverness Center Parkway, Suite 350
Birmingham, AL 35242
205.539.0384 | www.ttlusa.com

UTILITY LEGEND

- PGM — REQ'D GAS MAIN
- REQ'D GAS METER
- REQ'D GAS VALVE
- IRR — IRR — REQ'D IRRIGATION
- POC — REQ'D OVERHEAD CABLE TELEVISION
- PUC — REQ'D UNDERGROUND CABLE TELEVISION
- POT — REQ'D OVERHEAD TELEPHONE
- PUT — REQ'D UNDERGROUND TELEPHONE
- PTS — REQ'D TRAFFIC SIGNAL LINE
- PUF — REQ'D UNDERGROUND FIBER OPTIC
- TDOT — REQ'D DEPARTMENT OF TRANSPORTATION
- POE — REQ'D OVERHEAD ELECTRICAL
- PUE — REQ'D UNDERGROUND ELECTRICAL
- REQ'D POWER POLE
- REQ'D GUY ANCHOR
- REQ'D LIGHT POLE
- REQ'D PEDESTRIAN LIGHT
- REQ'D STREET LIGHT
- REQ'D PEDESTRIAN STREET LIGHT

WATER LEGEND

- PWM — REQ'D WATER MAIN
- PFL — REQ'D FIRE LINE
- REQ'D WATER VALVE
- REQ'D FIRE HYDRANT
- M — REQ'D WATER METER
- DC — REQ'D DETECTOR CHECK & VAULT
- WM — REQ'D IRRIGATION METER
- PRV — REQ'D PRESSURE REDUCING VALVE
- BFP — REQ'D BACKFLOW PREVENTER
- REQ'D POST MOUNTED SIAMESE CONNECTION

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SUMTER CENTRAL HIGH SCHOOL- CTE ANNEX
SUMTER COUNTY BOARD OF EDUCATION
13878 US HIGHWAY 11, YORK, AL 36925

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 24443
JAMES ALLEN MARTIN
5/21/26

BID SET

DATE: 05/6/26
PROJ NO: 25-135

REVISIONS		
#	DESC	DATE
1	ADD #1	5/21/26

SITE UTILITY PLAN

C501

NOTE:
1. SEE SHEET C101 FOR ALL APPLICABLE NOTES.

0 20 40 60
SCALE IN FEET

ADDENDUM #1

Smith, Stegall & associates p.c.
♦
Consulting Engineers
♦
2110 Eighth Street, Tuscaloosa, AL 35401
♦
Phone/ Fax 205 345 4402

PROJECT: **Sumter Central High School – CTE Annex**	ENG #26017 ARCH #25-135 DCM #2026158	DATE: **May 22, 2026**

HVAC:

1. **Sheet M001, HVAC Details, Diagrams, & Schedules:** See attached sheet for clouded revisions.
2. **Sheet M101, HVAC Plan:** See attached sheet for clouded revisions.

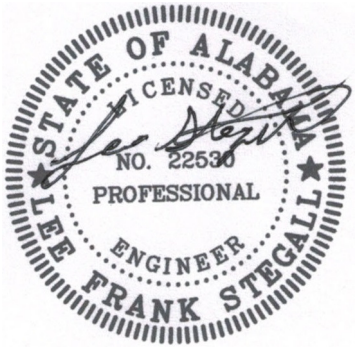
Electrical:

3. **Sheet E002, Panel 'SL' Schedule:**
   a. Circuit description for circuit 14 revised to read 'FIRE ALARM CIRCUIT' and red circuit breaker lock shown to be installed, see attached sheet
   b. New 20/1 breaker added in space 16 for the bi-directional amplifier, see attached sheet
4. **Sheet E101, Power Wiring Plan, Datacom 1133:** Circuits added for the fire alarm panel and the bi-directional amplifier (BDA), see attached sheet
5. **Sheet E300:**
   a. **Auxiliary Symbols List:** 'Future Camera Location' symbol description revised to include conduit provisions only, camera cabling to be by others, see attached sheet
   b. **General Auxiliary Notes:** Reference to cable color for cameras removed, see attached sheet
   c. **Telecom Equipment Rack 'TA' Elevation:** Camera patch panel removed, see attached sheet
6. **Sheet E301:** Future camera locations coordinated with documents provided by security consultant, see attached sheet for clouded revisions

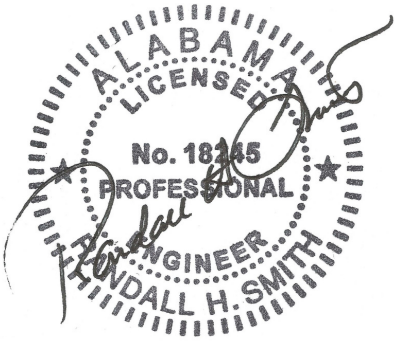
END OF ADDENDUM

Attachment(s):

1. HVAC Sheets (2): M001, M101
2. Electrical Sheets (4): E002, E101, E300, E301



05/22/26



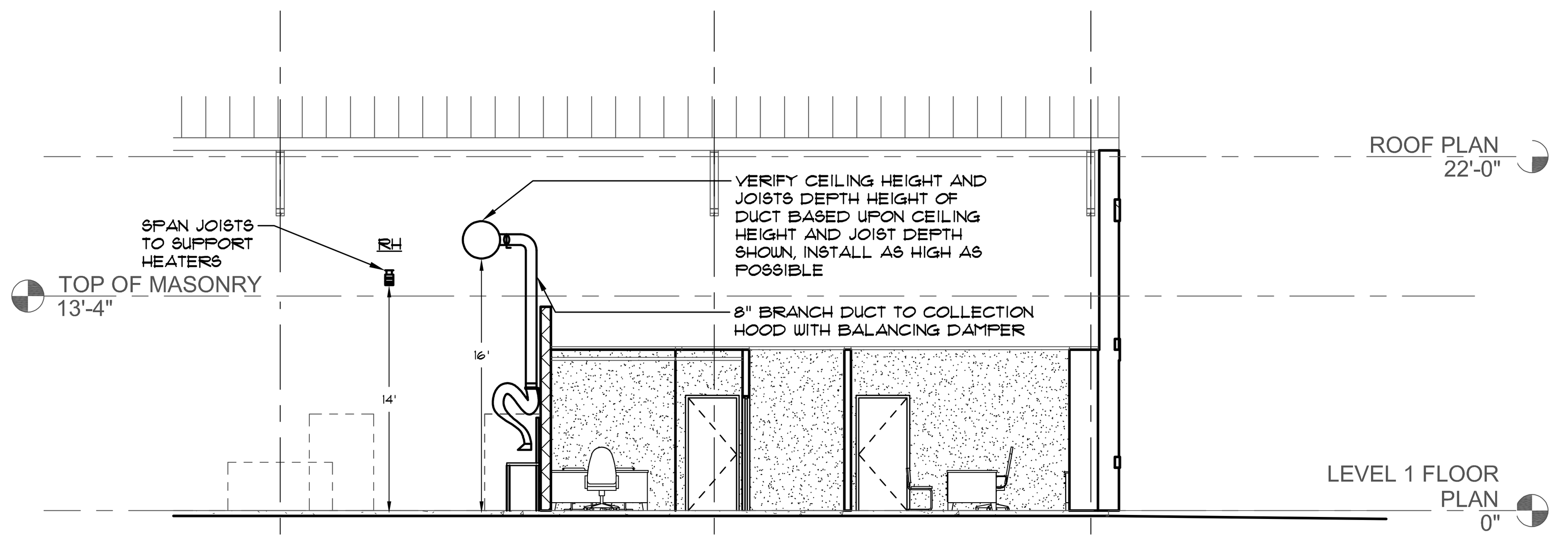
05/22/26

Space Name	Usage Category	Vent Type	Air Distribution Configuration	System	A_z	Nat Vent	Net Area	Vpz	# fixtures	# Heads	IAQ Value
	From IMC 2015 Table 403.3.1.1	Natural , Mechanical, or Mixed	From IMC 2015 Table 403.3.1.1.2		Zone floor area (ft^2)	Natural Ventilation opening area (ft^2)	Zone floor area minus natural vent area (ft^2)	Zone primary airflow rate (cfm)	Including water closets and urinals if applicable	number of Shower Heads	See GPS calculations
Director's Office 1105	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#6	190	0	190	125			5
Counselor Office 1107	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#6	147	0	147	75			5
Conference 1104	Conference Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#6	177	0	177	200			45
Hall 1103	Corridors	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#6	134	0	134	120			
Men 1111	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#6	51	0	51	10	1		
Women 1110	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#6	54	0	54	10	1		
Receptionist 1102	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#6	137	0	137	20			5
Work Room 1109	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#6	182	0	182	65			
Security Vestibule 1100	Main Entry Lobbies	Natural	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#5	92	42	0	5			
Corridor 1101	Corridors	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#5	1000	0	1000	390			
Corridor 1123	Corridors	Natural	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#5	159	42	0	50	2		
Men 1135	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#5	127	0	127	30	2		
Women 1135	Toilet Rooms - public (Heavy Use)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#5	127	0	127	30			
Cosmetology Classroom 1141	Classrooms (ages 9+)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#3	391	0	391	250			70
Office 1140	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#3	85	0	85	115			5
Dispensery 1139	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#3	114	0	114	120			
Salon 1136	Beauty and Nail Salons	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#3	1066	0	1066	535			135
Laundry 1138	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#3	81	0	81	100			
Tools 1132	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#3	129	0	129	20			
Office 1130	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#3	159	0	159	70			5
Shared Classroom 1128	Classrooms (ages 9+)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#2	695	0	695	530			125
Tools 1127	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#2	120	0	120	35			
Office 1125	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#2	145	0	145	60			5
Welding Classroom 1117	Classrooms (ages 9+)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#1	521	0	521	380			95
Tool 1119	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#1	145	0	145	25			
Tool 1116	Office Storage Rooms	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#1	145	0	145	25			
Office 1120	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#1	154	0	154	100			5
Office 1114	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	FCU#1	154	0	154	100			5
Health Science Lab 1201	Classrooms (ages 9+)	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	Exist. WHP 1&2	1311	0	1311	2300			230
Office 1203	Office Spaces	Mechanical	Ceiling supply of warm air less than 15F above space temp. and ceiling return	Exist. WHP 1&2	116	0	116	100			5
Welding Lab 1113	Wood / Metal Shops	Mechanical	Makeup air drawn in on opposite side of room from exhaust and/or return	WEF#1	1151	0	1151	580			
HVAC Lab	Wood / Metal Shops	Mechanical	Makeup air drawn in on opposite side of room from exhaust and/or return	WEF#1	1181	0	1181	595			
Modern MFG. Lab	Wood / Metal Shops	Mechanical	Makeup air drawn in on opposite side of room from exhaust and/or return	WEF#1	1155	0	1155	580			

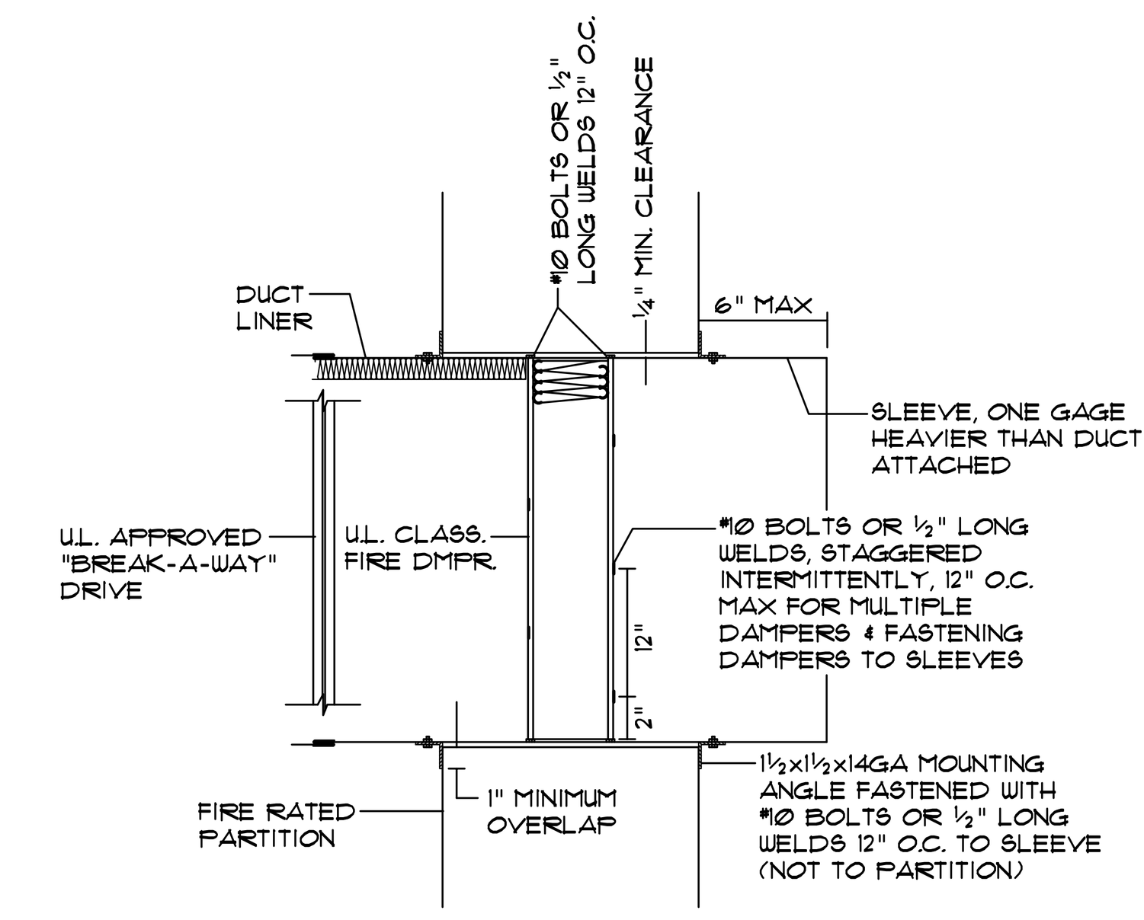
Space Name	Density		P_z	R_P	R_A	Ex. Rate	Exhaust	V_{BZ}	E_Z	V_{OZ}	Z_P	Min [Voz,IAQ]
	(people per ft^2)	Uncorrect Zone Population (People)	Corrected Zone population (people) - Mixed, Natural Only	People outdoor air rate (cfm per person)	Area outdoor air rate (cfm per ft^2)	(cfm per unit)	(cfm)	Breathing zone outdoor airflow rate (cfm)	Zone air distribution effectiveness (unitless)	Zone outdoor airflow rate (cfm)	Primary outdoor air fraction (unitless)	(cfm)
Director's Office 1105	0.005	1	1	5	0.06	-	-	16	1.0	16	0.04	5
Counselor Office 1107	0.005	1	1	5	0.06	-	-	14	1.0	14	0.07	5
Conference 1104	0.05	9	9	5	0.06	-	-	56	1.0	56	0.23	45
Hall 1103	-	-	-	-	0.06	-	-	8	1.0	8	0.07	8
Men 1111	-	-	-	-	-	70	70	0	1.0	0	0.00	0
Women 1110	-	-	-	-	-	70	70	0	1.0	0	0.00	0
Receptionist 1102	0.005	1	1	5	0.06	-	-	13	1.0	13	0.25	5
Work Room 1109	-	-	-	-	-	-	-	0	1.0	0	0.00	0
Security Vestibule 1100	0.01	1	0	5	0.06	-	-	0	1.0	0	0.00	0
Corridor 1101	-	-	-	-	0.06	-	-	60	1.0	60	0.15	60
Corridor 1123	-	-	-	-	0.06	-	-	0	1.0	0	0.00	0
Men 1135	-	-	-	-	-	70	140	0	1.0	0	0.00	0
Women 1135	-	-	-	-	-	70	0	0	1.0	0	0.00	0
Cosmetology Classroom 1141	0.035	14	14	10	0.12	-	-	187	1.0	187	0.28	70
Office 1140	0.005	1	1	5	0.06	-	-	10	1.0	10	0.04	5
Dispensery 1139	-	-	-	-	-	-	-	0	1.0	0	0.00	0
Salon 1136	0.025	27	27	20	0.12	0.6	639.6	668	1.0	668	0.25	135
Laundry 1138	-	-	-	-	-	-	-	0	1.0	0	0.00	0
Tools 1132	-	-	-	-	-	-	-	0	1.0	0	0.00	0
Office 1130	0.005	1	1	5	0.06	-	-	15	1.0	15	0.07	5
Shared Classroom 1128	0.035	25	25	10	0.12	-	-	333	1.0	333	0.24	125
Tools 1127	-	-	-	-	-	-	-	0	1.0	0	0.00	0
Office 1125	0.005	1	1	5	0.06	-	-	14	1.0	14	0.08	5
Welding Classroom 1117	0.035	19	19	10	0.12	-	-	253	1.0	253	0.25	95
Tool 1119	-	-	-	-	-	-	-	0	1.0	0	0.00	0
Tool 1116	-	-	-	-	-	-	-	0	1.0	0	0.00	0
Office 1120	0.005	1	1	5	0.06	-	-	14	1.0	14	0.05	5
Office 1114	0.005	1	1	5	0.06	-	-	14	1.0	14	0.05	5
Health Science Lab 1201	0.035	46	46	10	0.12	-	-	617	1.0	617	0.10	230
Office 1203	0.005	1	1	5	0.06	-	-	12	1.0	12	0.05	5
Welding Lab 1113	0.02	24	24	10	0.18	0.5	575.5	447	0.8	559	#N/A	559
HVAC Lab	0.02	24	24	10	0.18	0.5	590.5	453	0.8	566	#N/A	566
Modern MFG. Lab	0.02	24	24	10	0.18	0.5	577.5	448	0.8	560	#N/A	560

System	Type	V_{OU}	Vps	E_V	V_{OT}
		Uncorrected outdoor air intake flow rate (cfm)	System primary airflow (cfm)	System ventilation efficiency (unitless)	Outdoor air intake flow rate (cfm)
FCU#1	Multiple Zone	105	630	0.92	114
FCU#2	Multiple Zone	130	625	0.97	134
FCU#3	Multiple Zone	215	1210	0.90	239
FCU#5	Multiple Zone	60	505	0.97	62
FCU#6	Multiple Zone	68	625	0.86	79
Exist. WHP 1&2	Multiple Zone	235	2400	1.00	235

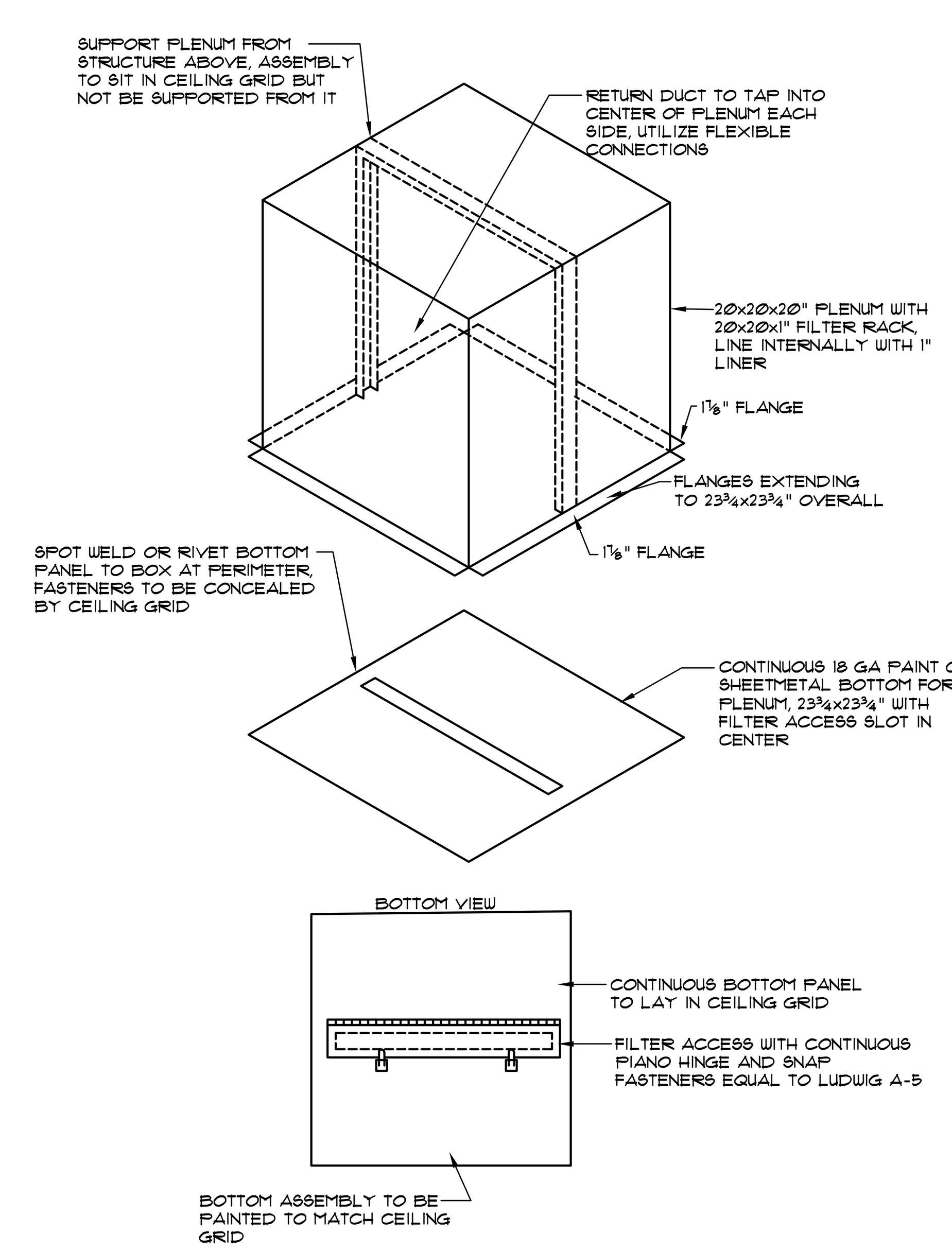
9 VENTILATION CALCULATIONS
NOT TO SCALE



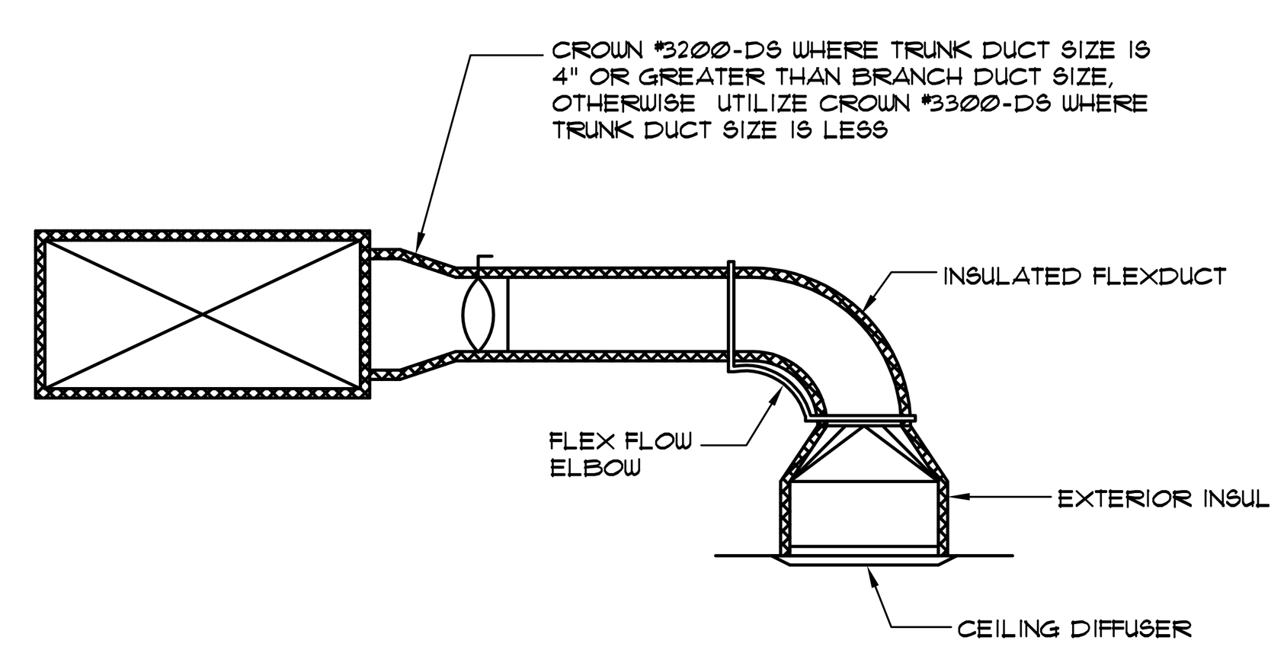
10 WELDING BOOTH EXHAUST SECTION
NOT TO SCALE



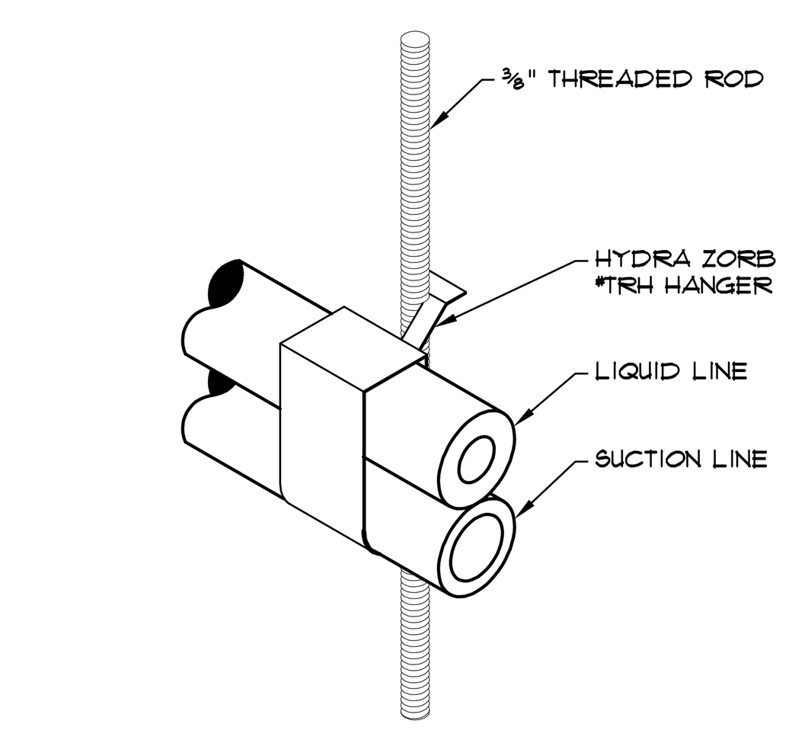
5 WALL FIRE DAMPER DETAIL
NOT TO SCALE



7 INLINE FILTER DETAIL
NOT TO SCALE



8 BRANCH DUCT DETAIL
NOT TO SCALE



6 REFRIGERANT HANGING DETAIL
NOT TO SCALE

VRF SYSTEMS

- VRF SYSTEMS TO SERVE CLASSROOMS, OFFICES, AND OTHER CONDITIONED SPACES AS INDICATED ON PLAN. ALL SYSTEMS TO HAVE PROGRAMMABLE CONTROLLERS AND ARE TO BE SCHEDULED PER OWNER.
- VRF INDOOR UNIT SHALL OPERATE UNDER LOCAL ZONE TEMPERATURE CONTROL TO MAINTAIN THE FOLLOWING ADJUSTABLE SPACE TEMPERATURE SETPOINTS:
  - a. OCCUPIED COOLING: 72° F.
  - b. OCCUPIED HEATING: 76° F.
  - c. UNOCCUPIED COOLING SETBACK: 76° F.
  - d. UNOCCUPIED HEATING SETBACK: 68° F.

DOAS SYSTEM

- DOAS SHALL PROVIDE OUTDOOR VENTILATION AIR TO CLASSROOMS, OFFICES, AND OTHER CONDITIONED SPACES AS INDICATED ON THE VENTILATION SCHEDULE.
- DOAS TO BE ENERGIZED WHEN THE BUILDING IS IN OCCUPIED MODE. OCCUPIED MODE SHALL BE INITIATED BY A RELAY CONNECTED TO THE CORRIDOR LIGHTING.

LAB EXHAUST SYSTEM

- WELDING LAB, HVAC LAB, AND MODERN MANUFACTURING LAB SHALL BE SERVED BY EXHAUST SYSTEMS AS INDICATED IN PLAN.
- LAB EXHAUST FANS SHALL OPERATE DURING OCCUPIED LAB USE AND SHALL MAINTAIN THE LAB SPACES NEGATIVE PRESSURE RELATIVE TO ADJACENT CORRIDORS/CLASSROOMS.
- THE LABS EXHAUST FAN WEF#1 IS TO BE CONTROLLED BY RELAYED CONNECTED TO SPACE LIGHTING AS INDICATED ON PLAN
- THE LABS EXHAUST FAN WEF#2 SHALL BE CONTROLLED BY LOCAL WALL SWITCH.

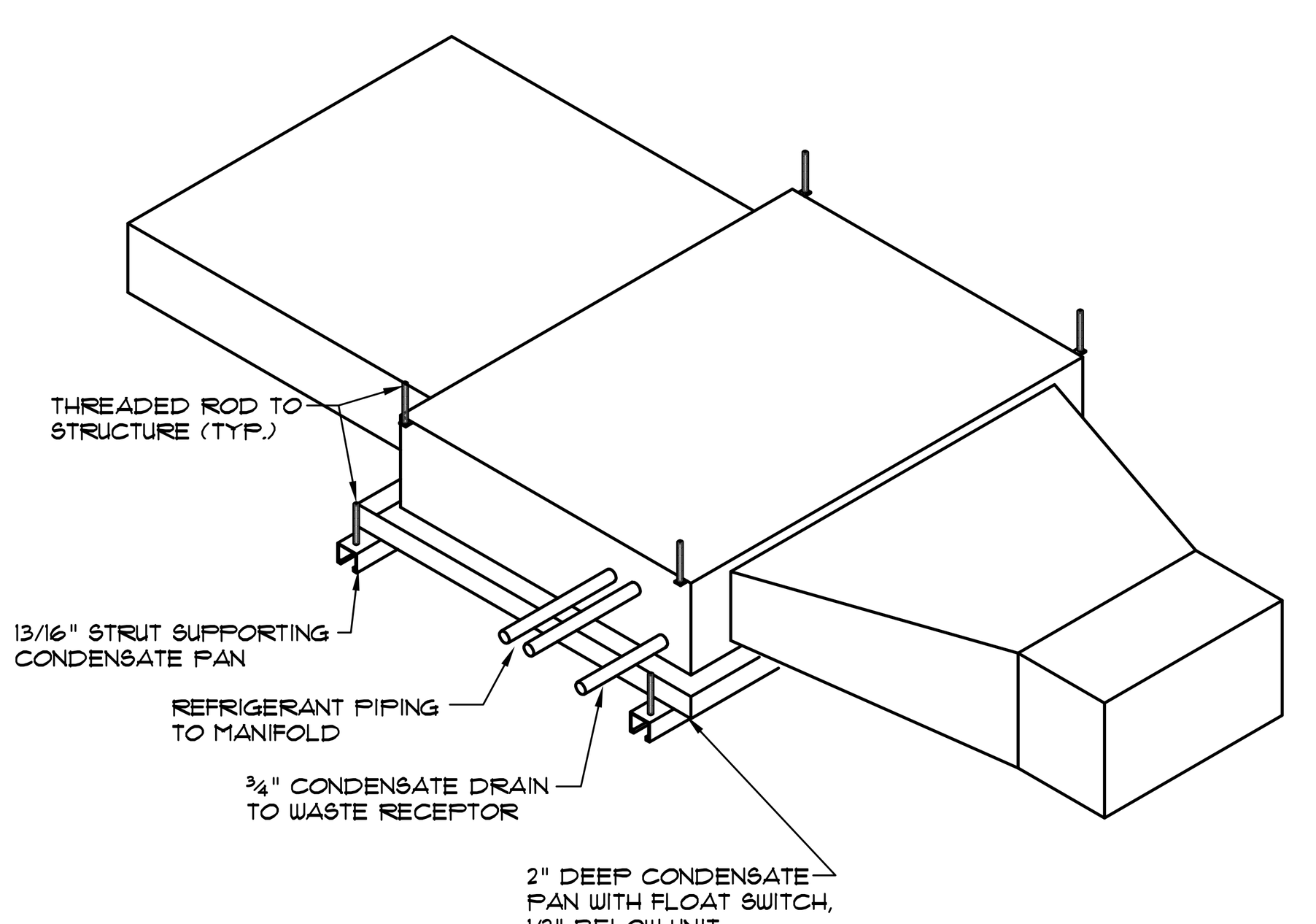
GENERAL CONTROLS

- CEILING EXHAUST FANS TO BE CONTROLLED WITH ROOM LIGHTING.
- ALL SETPOINTS SHALL BE ADJUSTABLE THROUGH THE MANUFACTURER' S CONTROLLER OR BAS WHERE PROVIDED.
- CONTROLS CONTRACTOR SHALL COORDINATE FINAL START/STOP SIGNALS, LIGHTING CONTROL INTERFACE, AND EQUIPMENT ENABLE POINTS WITH ELECTRICAL CONTRACTOR.
- PROVIDE ALL RELAYS, CURRENT SENSORS, CONTROL WIRING, TRANSFORMERS, AND INTERLOCKS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- FINAL CONTROL SETTINGS SHALL BE VERIFIED DURING TEST AND BALANCE AND ADJUSTED TO MATCH SCHEDULED AIRFLOWS.

11 CONTROL NOTE
NOT TO SCALE

System	System refrigerant	Quantity	Served Space	Dispersal Area	Height	Volume	Concentration (lb/1000ft3)	Notes (RCL)
1	R-32	2.75	Welding Classroom 1127	521	10	5210	0.5	<4.8lb/1000ft3
2	R-32	2.75	Shared Classroom 1128	695	10	6950	0.4	<4.8lb/1000ft3
3	R-32	4.4375	Salon 1136	1065	10	10650	0.4	<4.8lb/1000ft3
5	R-32	2.25	Corridor 1101	1000	10	10000	0.2	<4.8lb/1000ft3
6	R-32	2.75	Couns. Office 1107	147	10	1470	1.9	<4.8lb/1000ft3

12 REFRIGERANT CONCENTRATION SCHEDULE
NOT TO SCALE



4 FAN COIL UNIT DETAIL
NOT TO SCALE

ELBOW WITH DOUBLE WALL TURNING VANES AS PER SPECIFICATIONS
RECTANGULAR DUCT, FIRST DIMENSION AS VIEWED, EXTERNAL DIMENSIONS INDICATED
RECTANGULAR DUCT TURNED DOWN
RECTANGULAR DUCT TURNED UP
CONTROL DAMPERS
1 HOUR FIRE DAMPER
ROUND DUCT
ROUND DUCT TURNED DOWN
ROUND DUCT TURNED UP
CONDENSATE PIPING
REFRIGERANT PIPING
THERMOSTAT

3 LEGEND
NO SCALE

- ROUND BRANCH DUCTS 6'-0" AND LESS IN LENGTH TO BE INSTALLED WITH FLEXIBLE ROUND DUCT AS PER SPECIFICATIONS. BRANCH DUCTS GREATER THAN 6'-0" IN LENGTH ARE TO BE INSTALLED WITH ROUND RIGID DUCT TO WITHIN 5'-0" OF TERMINATION WITH FLEXIBLE DUCT CONNECTION NOT EXCEEDING 5'-0" IN LENGTH.
- VERIFY CEILING CONSTRUCTION PRIOR TO ORDERING DIFFUSERS.
- INSTALL FIRE DAMPERS AT ALL DUCT PENETRATIONS OF FIRE RATED PARTITIONS. CONSULT ARCHITECTURAL PLANS FOR RATINGS.
- MINI-SPLIT EQUIPMENT AS MANUFACTURED BY DAIKIN, CARRIER-TOSHIBA, TRANE-MITSUBISHI, OR FUJITSU ACCEPTABLE SUBJECT TO PLANS AND SPECIFICATIONS.
- BI POLAR IONIZATION EQUIPMENT AS MANUFACTURED BY GLOBAL PLASMA SOLUTIONS, PHENOMENAL AIRE, AND BIOCLIMATE ACCEPTABLE SUBJECT TO PLANS AND SPECIFICATIONS.
- REFRIGERANT PIPE SIZES TO BE AS RECOMMENDED BY MANUFACTURER.
- ALL CONTROL CABLING ON EXTERIOR OF BUILDING TO BE INSTALLED IN CONDUIT.
- EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILING TO BE WITHIN 24" OF THE TOP OF THE CEILING GRID.
- WHERE OUTDOOR EQUIPMENT IS INSTALLED ON A CONCRETE PAD, NO UTILITIES ARE TO EXTEND BEYOND THE EDGE OF THE SLAB. CONDUIT, CONDENSATE, REFRIGERANT OR ANY OTHER UTILITY REQUIRING ROUTING BEYOND THE SLAB IS TO BE ROUTED THROUGH THE SLAB. ANYTHING HANGING OFF THE EDGE WILL BE DAMAGED BY LAWN CARE EQUIPMENT AND IS NOT ALLOWED.

2 GENERAL NOTES
NO SCALE

HP #1, 2, 6, — HEAT PUMP, FUJITSU #AOUH18KUAS1, 1.5 TON NOMINAL CAPACITY, 18.6 SEER2, 3.64 COP2, 208V/1/60, 14.8 MCA, 20 MOP

FCU #1, 2, 6, — FAN COIL UNIT, FUJITSU #ARUH18KUAS, CONCEALED - MID STATIC HORIZONTAL, 1.5 TON NOMINAL CAPACITY, 620 CFM AT 0.5" ESP, POWER FROM OUTDOOR UNIT, PROGRAMMABLE THERMOSTAT, INTEGRAL REFRIGERANT DETECTION SENSOR

HP #3, — HEAT PUMP, FUJITSU #AOUH36KUAS1, 3 TON NOMINAL CAPACITY, 18 SEER2, 3.52 COP, 208V/1/60, 20.8 MCA, 25 MOP

FCU #3, — FAN COIL UNIT, FUJITSU #ARUH36KUAS, CONCEALED - MID STATIC HORIZONTAL, 3 TON NOMINAL CAPACITY, 1200 CFM AT 0.5" ESP, POWER FROM OUTDOOR UNIT, PROGRAMMABLE THERMOSTAT, INTEGRAL REFRIGERANT DETECTION SENSOR

HP #4, — HEAT PUMP, FUJITSU #AOU48RLAVM4, 4 TON NOMINAL CAPACITY, 18.1 SEER, 3.64 COP, 208V/1/60, 29.8 MCA, 30 MOP

FCU #4, — FAN COIL UNIT, FUJITSU #AAUA48TLAV, DOAS, 4 TON NOMINAL CAPACITY, 630 CFM AT 0.5" ESP, 208V/1/60, 1.68 MCA, 15 MOP, THERMOSTAT, START/ STOP RELAY

HP #5, — HEAT PUMP, FUJITSU #AOUH12KUAS1, 1 TON NOMINAL CAPACITY, 19.1 SEER2, 3.76 COP, 208V/1/60, 11.7 MCA, 15 MOP

FCU #5, — FAN COIL UNIT, FUJITSU #ARUH12KUAS, CONCEALED - MID STATIC HORIZONTAL, 1 TON NOMINAL CAPACITY, 500 CFM AT 0.5" ESP, POWER FROM OUTDOOR UNIT, PROGRAMMABLE THERMOSTAT, INTEGRAL REFRIGERANT DETECTION SENSOR

BPI-D — BI-POLAR IONIZATION, GLOBAL PLASMA SOLUTIONS #DM-2, RATED FOR 2400 CFM, NEGLIGIBLE OZONE PRODUCTION, 24-240V, DUCT MOUNTING, SELF CLEANING

RH — RADIANT HEATER, MARKEL #462-60-TH-480V, 2-QUARTZ LAMPS, 7.3 KW OUTPUT, 480V/1/60, 14' MOUNTING HEIGHT, 60° SYMMETRICAL REFLECTIVE PATTERN, STAINLESS STEEL WIRE GUARDS, RED VYCOR SLEEVES, BROWN HOUSING

WEF#1, — WALL EXHAUST FAN, GREENHECK #SE1-12-432-B, AIRFLOW AS PER PLAN AT 0.25" ESP, 1/6 HP MOTOR, 277V, 45 INLET dBA, FINISH AS PER ARCHITECT, BACKDRAFT DAMPER, WALL HOUSING, SPEED CONTROLLER

WEF#2, — WALL EXHAUST FAN, GREENHECK #SBE-2H24-5, 3900 CFM EXHAUST AT 0.4" ESP, 0.39 BHP, 1/2 HP MOTOR, 120V, 71 INLET dBA, FINISH AS PER ARCHITECT, BACKDRAFT DAMPER, WALL HOUSING, 120V COIL

WEF#3, — WALL EXHAUST FAN, GREENHECK #CUBE-300HP-30, 6000 CFM EXHAUST AT 1.6" ESP, 2.72 BHP, 3 HP MOTOR, 480V/3/60, 70 INLET dBA, STARTER WITH PUSH BUTTON START/ STOP, 120V COIL

WEF#4, — WALL EXHAUST FAN, GREENHECK #SE1-16-426-B, 1465 CFM AT 0.25" ESP, 1/6 HP MOTOR, 277V, 45 INLET dBA, FINISH AS PER ARCHITECT, BACKDRAFT DAMPER, WALL HOUSING, SPEED CONTROLLER

WEF#5, — WALL EXHAUST FAN, GREENHECK #SBE-1H30-5, 6500 CFM EXHAUST AT 0.4" ESP, 0.39 BHP, 1/2 HP MOTOR, 120V, 71 INLET dBA, FINISH AS PER ARCHITECT, BACKDRAFT DAMPER, WALL HOUSING, 120V COIL

WEF#4.ALT, — WALL EXHAUST FAN, GREENHECK #SE1-16-436-B, 2250 CFM AT 0.25" ESP, 1/4 HP MOTOR, 277V, 45 INLET dBA, FINISH AS PER ARCHITECT, BACKDRAFT DAMPER, WALL HOUSING, SPEED CONTROLLER

WEF#5.ALT, — WALL EXHAUST FAN, GREENHECK #SBE-1H36-10, 10050 CFM EXHAUST AT 0.25" ESP, 0.94 BHP, 1 HP MOTOR, 120V, 71 INLET dBA, FINISH AS PER ARCHITECT, BACKDRAFT DAMPER, WALL HOUSING, 120V COIL

EF #1 — EXHAUST FAN, GREENHECK #SP-B70, 70 CFM AT 0.125" SP, 1.0 SONE, 120V, WHITE GRILLE

EF #2 — EXHAUST FAN, GREENHECK #SP-B150, 140 CFM AT 0.125" SP, 1.0 SONE, 120V, WHITE GRILLE

EF #3 — EXHAUST FAN, GREENHECK #SP-A510-VG, 550 CFM AT 0.25" SP, 1.0 SONE, 120V, WHITE GRILLE

CDL — CEILING DIFFUSER, TITUS #TDC, SIZE AS PER PLAN, WHITE FINISH, LAY-IN BORDER, ROUND NECK

CRG, — CEILING RETURN GRILLE, TITUS #350R, SIZE AS PER PLAN, WHITE FINISH, LAY-IN BORDER

FRG — FILTER RETURN GRILLE, TITUS #350RLF1, 20x20x1" FILTER SIZE, KNURLED KNOB FASTENERS, LAY-IN BORDER, WHITE FINISH

CH, — COLLECTION HOOD, LINCOLN ELECTRIC #LTA 2.01, #K1655-10, 3-4.5' TELESCOPIC, WALL MOUNT BRACKET, SPRING CLOSED

WRG — WALL RETURN GRILLE, TITUS #350RS, SIZE AS PER PLAN, WHITE FINISH, SURFACE MOUNT, BLADES PARALLEL TO FLOOR

WL — WALL LOUVER, GREENHECK #EDD-401, SIZE AS PER PLAN, KYNAR FINISH, COLOR AS PER ARCHITECT, FLANGED FRAME CONSTRUCTION, BIRD SCREEN

IL — INTAKE LOUVER, GREENHECK #EAC-601, SIZE AS PER PLAN, KYNAR FINISH, COLOR AS PER ARCHITECT, FLANGED FRAME CONSTRUCTION, 120V ACTUATOR, POWER OPEN, SPRING CLOSE

1 EQUIPMENT SCHEDULE
NO SCALE

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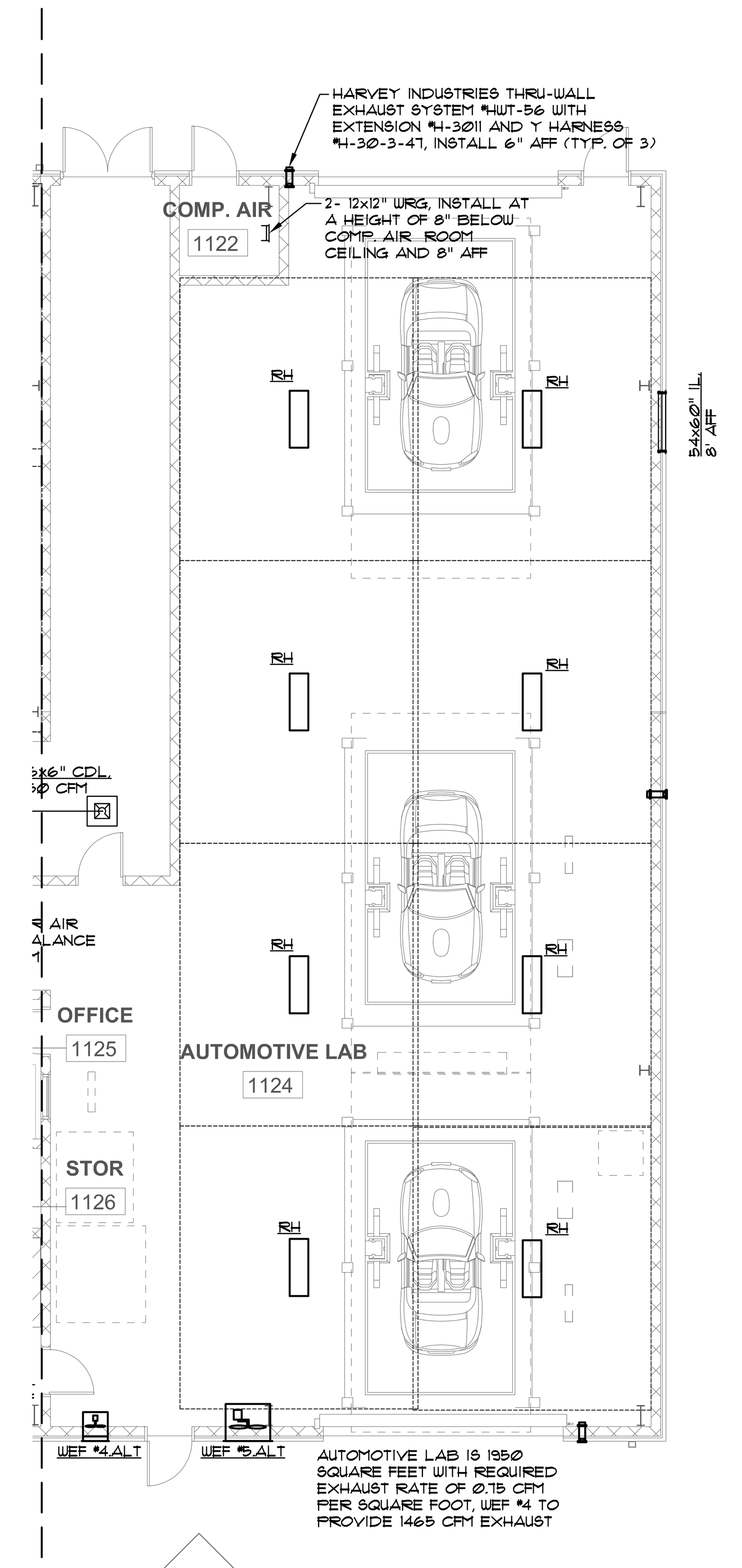
DATE: 05/06/26
PROJ NO: 25-135

REVISIONS

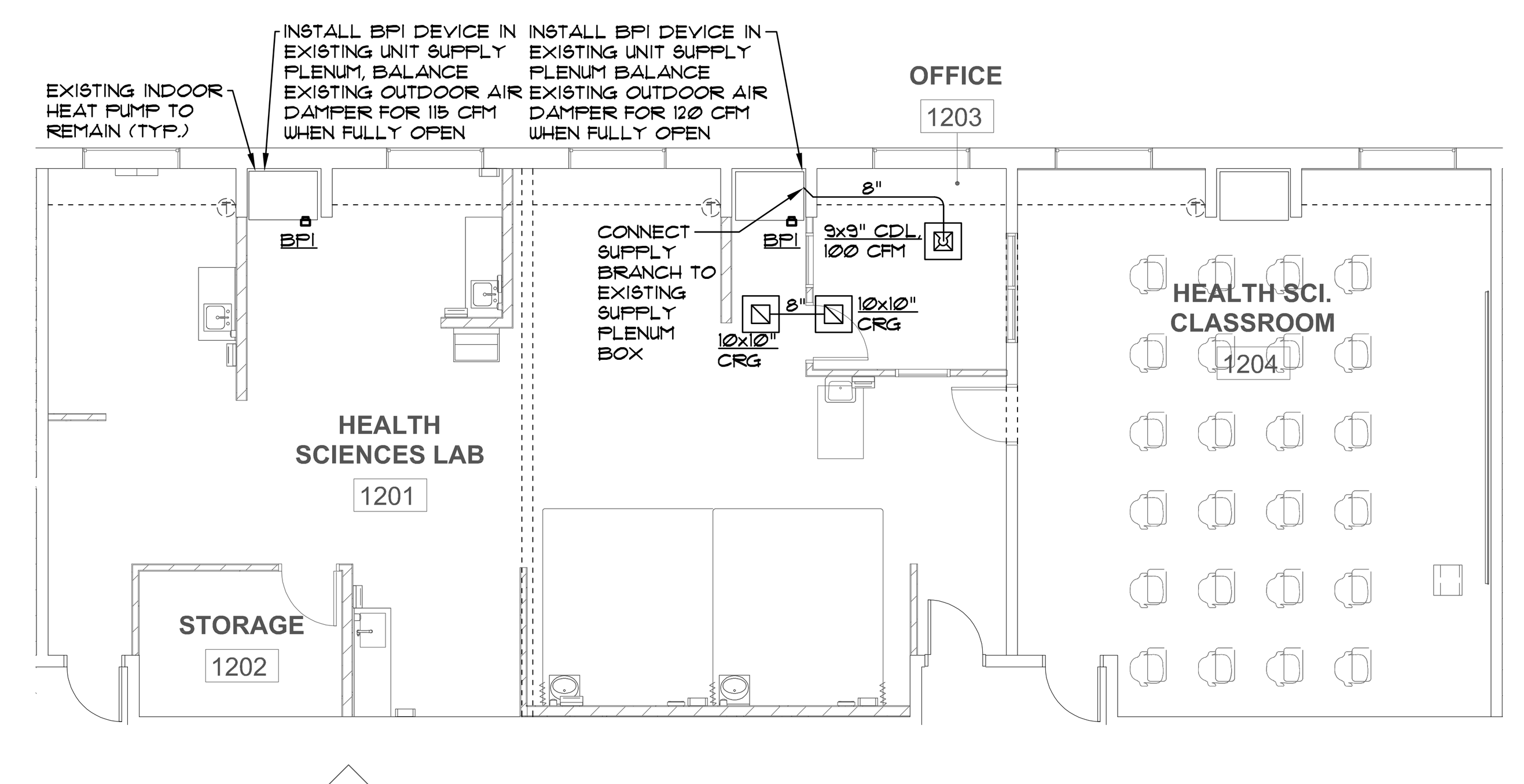
#	DESC	DATE
1	ADD #1	05/22/26

HVAC DETAILS, DIAGRAMS, & SCHEDULES

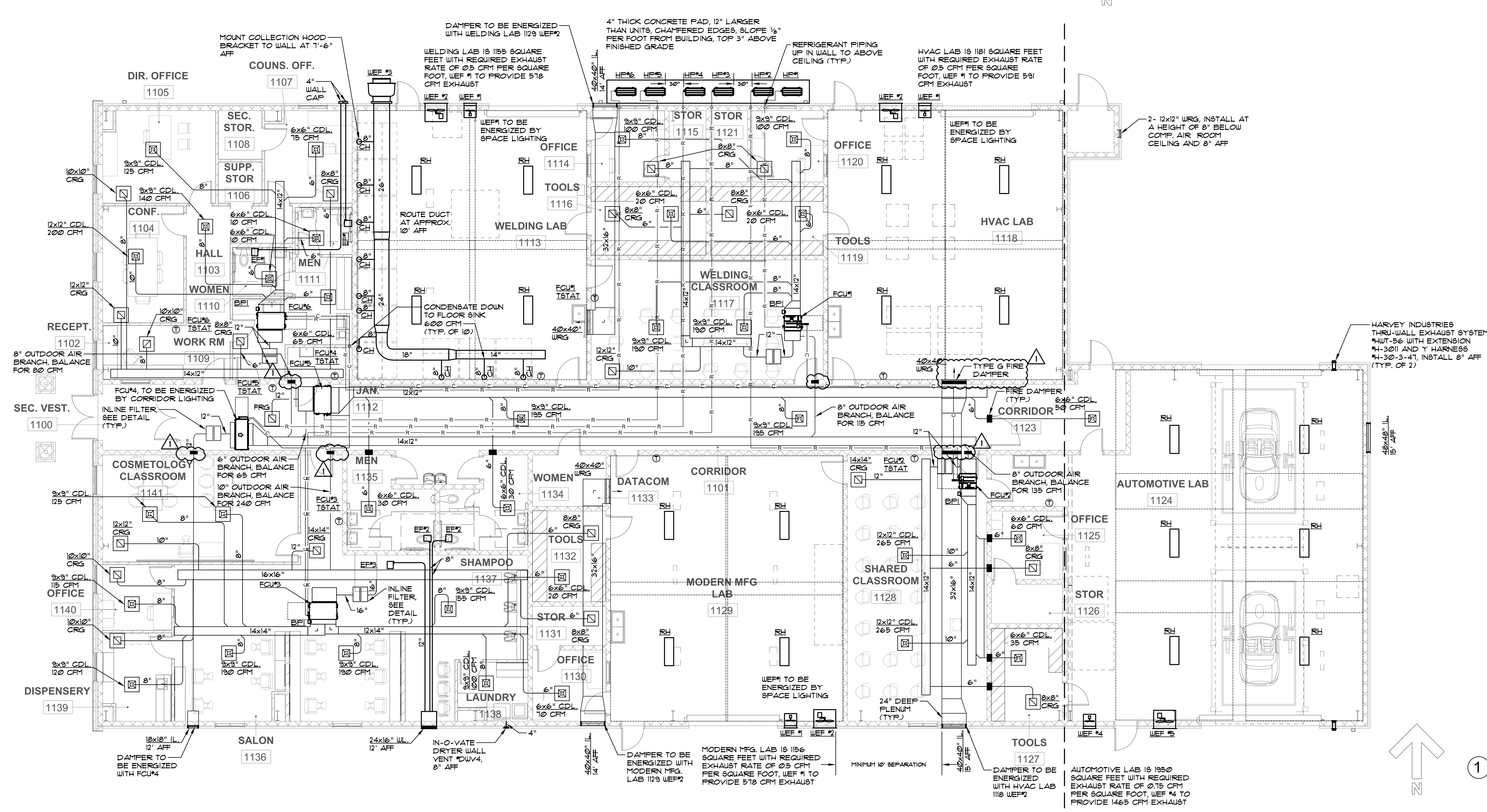
M001



3 ALTERNATE HVAC PLAN
1/8" = 1'-0"



2 HEALTH SCIENCE HVAC PLAN
1/8" = 1'-0"



1 HVAC PLAN
1/8" = 1'-0"

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PROJ NO: 25-135

REVISIONS

#	DESC	DATE
1	ADD #1	05/22/26

HVAC PLAN

M101

PANEL 'HL'

DESCRIPTION: 120/208V, 3Φ, 4W, 175A, MAIN BREAKER, BOTTOM, SURFACE, 10K AIC, SUB-FEED LUGS, 120 KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
RECEPTACLE - OFFICE	1	20/1		2	30/1 PROVISION
RECEPTACLE - TOOLS	3	20/1		4	30/1 PROVISION
WEF 2	5	20/1		6	30/1 PROVISION
UTILITY CONTROLLER	7	20/1		8	30/1 PROVISION
OVER HEAD DOOR	9	20/1		10	30/1 PROVISION
AIR COMPRESSOR RELAYS	11	20/1		12	30/1 PROVISION
30/1 PROVISION	13			14	30/1 PROVISION
30/1 PROVISION	15		60/3	16	AIR COMPRESSOR
30/1 PROVISION	17			18	
		SUB-FEED LUGS TO PANEL HLS VIA CONTACTOR			

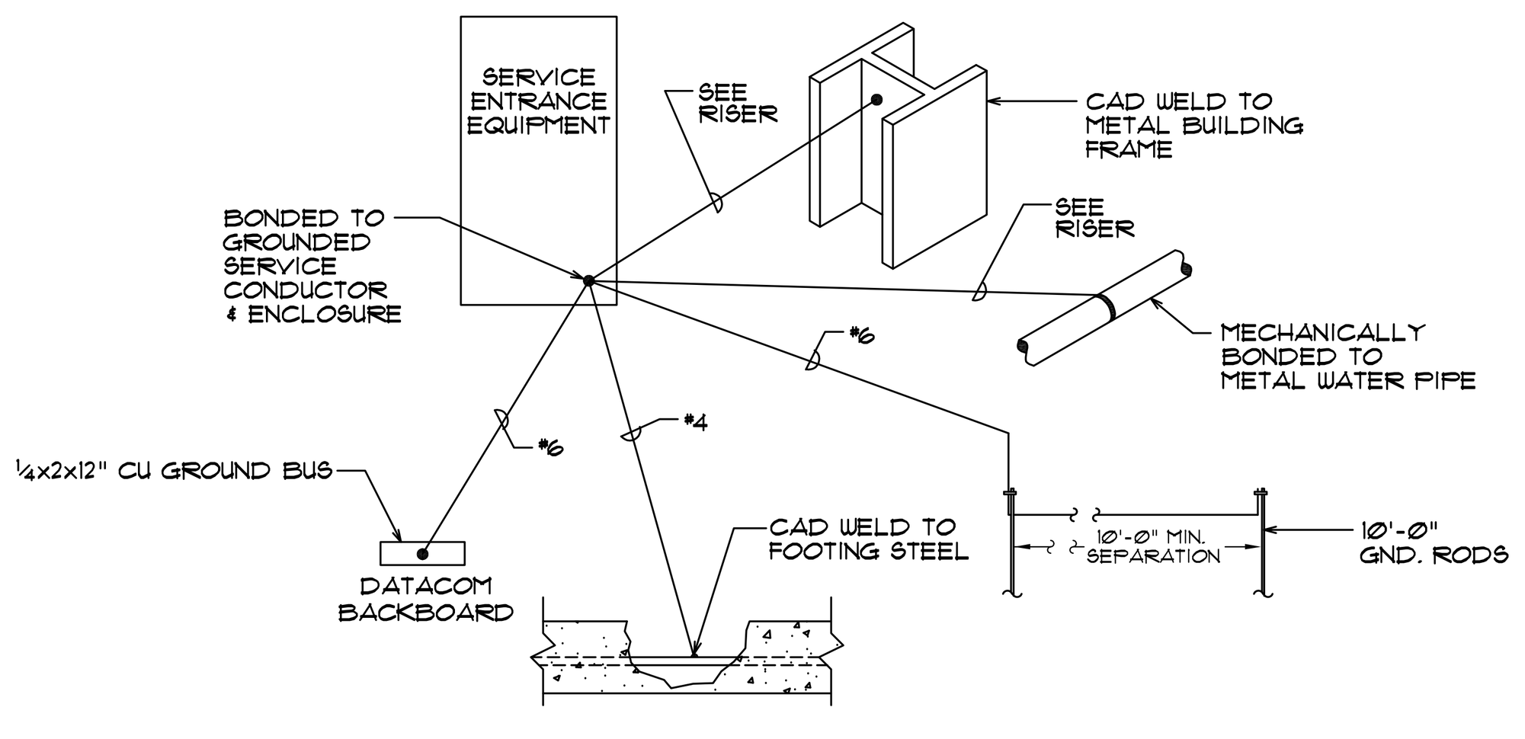
13 PANEL 'HL' SCHEDULE
NO SCALE

PANEL 'SLS'

DESCRIPTION: 120/208V, 3Φ, 4W, 100A, MLO, BOTTOM, FLUSH, 10K AIC, 120 KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
RECEPTACLE - STYLING STATION	1	20/1	20/1	2	RECEPTACLE - HAIR DRYER
RECEPTACLE - STYLING STATION	3	20/1	20/1	4	RECEPTACLE - HAIR DRYER
RECEPTACLE - STYLING STATION	5	20/1	20/1	6	RECEPTACLE - HAIR DRYER
RECEPTACLE - STYLING STATION	7	20/1	20/1	8	SPARE
RECEPTACLE - STYLING STATION	9	20/1	20/1	10	SPARE
RECEPTACLE - STYLING STATION	11	20/1	20/1	12	SPARE
RECEPTACLE - STYLING STATION	13	20/1		14	30/1 PROVISION
RECEPTACLE - STYLING STATION	15	20/1		16	30/1 PROVISION
RECEPTACLE - STYLING STATION	17	20/1		18	30/1 PROVISION
RECEPTACLE - STYLING STATION	19	20/1		20	30/1 PROVISION
RECEPTACLE - SALON	21	20/1		22	30/1 PROVISION
SPARE	23	20/1		24	30/1 PROVISION
30/1 PROVISION	25			26	30/1 PROVISION
30/1 PROVISION	27			28	30/1 PROVISION
30/1 PROVISION	29			30	30/1 PROVISION

14 PANEL 'SLS' SCHEDULE
NO SCALE



15 SERVICE GROUNDING DIAGRAM
NO SCALE

PANEL 'WL'

DESCRIPTION: 120/208V, 3Φ, 4W, 200A, MAIN BREAKER, TOP, 10K AIC, SUB-FEED LUGS, 120 KA INTEGRAL SPD

NOTE: THIS PANELBOARD IS CONTAINED IN A MODULAR PANELBOARD SYSTEM

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
UTILITY CONTROLLER	1	20/1	20/1	2	OVERHEAD DOOR
RECEPTACLE - OFFICE	3	20/1	20/1	4	RECEPTACLE - CLASSROOM
WEF-2	5	20/1	20/1	6	RECEPTACLE - CLASSROOM
RECEPTACLE - TOOLS	7	20/1	20/1	8	SPARE
SPARE	9	20/1	20/1	10	SPARE
SPARE	11	20/1	20/1	12	SPARE
30/1 PROVISION	13			14	30/1 PROVISION
30/1 PROVISION	15			16	30/1 PROVISION
30/1 PROVISION	17			18	30/1 PROVISION
30/1 PROVISION	19			20	30/1 PROVISION
30/1 PROVISION	21			22	30/1 PROVISION
30/1 PROVISION	23			24	30/1 PROVISION
30/1 PROVISION	25			26	30/1 PROVISION
30/1 PROVISION	27		20/2	28	HP-5
30/1 PROVISION	29			30	

16 PANEL 'WL' SCHEDULE
NO SCALE

PANEL 'WH'

DESCRIPTION: 277/480V, 3Φ, 4W, 800A, MAIN BREAKER, BOTTOM, SURFACE, 65K AIC, SE LABEL, 250 KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
30/1 PROVISION	1		20/1	2	LIGHTING
30/1 PROVISION	3		20/1	4	PHOTOCELL - EXTERIOR LIGHTING
30/1 PROVISION	5		20/1	6	SPARE
RH	7	20/2	20/2	8	RH
	9			10	
60/2 PROVISION	11		20/2	12	RH
	13			14	
60/2 PROVISION	15		20/2	16	RH
	17			18	
100/3 PROVISION	19			20	100/3 PROVISION
	21			22	
	23			24	
WEF - 3	25	15/3	70/3	26	X'FRMR TS / PANEL SL
	27			28	
	29			30	
PANEL WHS VIA CONTACTOR		200/3	150/3		PANEL AH
X'FRMR TW / PANEL WL		125/3	150/3		PANEL HH
200/3 PROVISION			150/3		PANEL MH

9 PANEL 'WH' SCHEDULE
NO SCALE

PANEL 'AL'

DESCRIPTION: 120/208V, 3Φ, 4W, 175A, MAIN BREAKER, BOTTOM, SURFACE, 10K AIC, SUB-FEED LUGS, 120 KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
UTILITY CONTROLLER	1	20/1	20/1	2	SPARE
OVERHEAD DOOR - NORTHEAST	3	20/1	20/1	4	SPARE
OVERHEAD DOOR - SOUTHWEST	5	20/1	20/1	6	SPARE
RECEPTACLE - CLASSROOM	7	20/1		8	30/1 PROVISION
RECEPTACLE - CLASSROOM	9	20/1		10	30/1 PROVISION
RECEPTACLE - CLASSROOM	11	20/1		12	30/1 PROVISION
RECEPTACLE - OFFICE	13	20/1		14	30/1 PROVISION
RECEPTACLE - TOOLS	15	20/1		16	30/1 PROVISION
WEF 2	17	20/1		18	30/1 PROVISION
30/1 PROVISION	19			20	30/1 PROVISION
30/1 PROVISION	21			22	30/1 PROVISION
30/1 PROVISION	23		100/2	24	STORM SHELTER
30/1 PROVISION	25			26	
30/1 PROVISION	27		20/2	28	HP - 2
30/1 PROVISION	29			30	
		SUB-FEED LUGS TO PANEL ALS VIA CONTACTOR			

10 PANEL 'AL' SCHEDULE
NO SCALE

PANEL 'SL'

DESCRIPTION: 120/208V, 3Φ, 4W, 175A, MAIN BREAKER, TOP, SURFACE, 10K AIC, 120 KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
RECEPTACLE - MISC.	1	20/1	20/1	2	DATA COM.
RECEPTACLE - WORK ROOM	3	20/1	20/1	4	DATA COM.
RECEPTACLE - COUNSELOR OFFICE	5	20/1	20/1	6	UTILITY CONTROLLER
RECEPTACLE - RECEPTION	7	20/1	20/1 GFI	8	RECEPTACLE - WATER COOLER
RECEPTACLE - CONFERENCE	9	20/1	20/1	10	RECEPTACLE - LAUNDRY
RECEPTACLE - DIRECTORS OFFICE	11	20/1	20/1	12	RECEPTACLE - TOILETS, HALL
RECEPTACLE - CLASSROOM	13	20/1	20/1 *	14	FIRE ALARM CIRCUIT
RECEPTACLE - CLASSROOM	15	20/1	20/1	16	BI-DIRECTIONAL AMPLIFIER
RECEPTACLE - OFFICE	17	20/1		18	30/1 PROVISION
RECEPTACLE - DISPENSERY	19	20/1		20	30/1 PROVISION
LIGHTING	21	20/1		22	30/1 PROVISION
LIGHTING	23	20/1		24	30/1 PROVISION
SPARE	25	20/1		26	30/1 PROVISION
SPARE	27	20/1		28	30/1 PROVISION
SPARE	29	20/1		30	30/1 PROVISION
30/1 PROVISION	31		15/2	32	HP - 5
30/1 PROVISION	33			34	
30/1 PROVISION	35		30/2	36	HP - 4
30/1 PROVISION	37			38	
30/1 PROVISION	39		20/2	40	HP - 6
30/1 PROVISION	41			42	
30/1 PROVISION	43		25/2	44	HP - 3
FCU - 4	45	15/2		46	
	47		30/2 GFI	48	DRYER
PANEL SLS VIA CONTACTOR	49	100/3		50	
	51		20/2	52	120/208V COPIER RECEPTACLE
	53			54	

1 *INSTALL RED CIRCUIT BREAKER LOCK, SPACE AGE ELECTRONICS #ELOCK-FA OR EQUAL

11 PANEL 'SL' SCHEDULE
NO SCALE

PANEL 'ML'

DESCRIPTION: 120/208V, 3Φ, 4W, 150A, MAIN BREAKER, BOTTOM, SURFACE, SUB-FEED LUGS, 120 KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
UTILITY CONTROLLER	1	20/1		2	30/1 PROVISION
OVERHEAD DOOR	3	20/1		4	30/1 PROVISION
RECEPTACLE - TOOLS	5	20/1		6	30/1 PROVISION
RECEPTACLE - OFFICE	7	20/1		8	30/1 PROVISION
WEF - 2	9	20/1		10	30/1 PROVISION
SPARE	11	20/1		12	30/1 PROVISION
30/1 PROVISION	13			14	30/1 PROVISION
30/1 PROVISION	15			16	30/1 PROVISION
30/1 PROVISION	17			18	30/1 PROVISION
		SUB-FEED LUGS TO PANEL MLS VIA CONTACTOR			

12 PANEL 'ML' SCHEDULE
NO SCALE

PANEL 'WLS'

DESCRIPTION: 120/208V, 3Φ, 4W, 200A, MLO, BOTTOM, 10K AIC, 120 KA INTEGRAL SPD

NOTE: THIS PANELBOARD IS CONTAINED IN A MODULAR PANELBOARD SYSTEM

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
RECEPTACLE - BOOTH 1 & 2	1	20/1 GFI		2	30/1 PROVISION
RECEPTACLE - BOOTH 3 & 4	3	20/1 GFI		4	30/1 PROVISION
RECEPTACLE - BOOTH 5 & 6	5	20/1 GFI		6	30/1 PROVISION
RECEPTACLE - BOOTH 7 & 8	7	20/1 GFI		8	30/1 PROVISION
RECEPTACLE - BOOTH 9 & 10	9	20/1 GFI		10	30/1 PROVISION
RECEPTACLE - MISCELLANEOUS	11	20/1		12	30/1 PROVISION
RECEPTACLE - SANDBLAST	13	20/1		14	30/1 PROVISION
SPARE	15	20/1 GFI		16	30/1 PROVISION
SPARE	17	20/1 GFI		18	30/1 PROVISION
208V WELDER RECEPTACLE BOOTH 1	19	50/2	50/2	20	SPARE
	21			22	
208V WELDER RECEPTACLE BOOTH 2	23	50/2	50/2	24	208V WELDER RECEPTACLE OUTSIDE
	25			26	
208V WELDER RECEPTACLE BOOTH 3	27	50/2	50/2	28	208V WELDER RECEPTACLE BOOTH 4
	29			30	
208V WELDER RECEPTACLE BOOTH 5	31	50/2	50/2	32	208V WELDER RECEPTACLE BOOTH 6
	33			34	
208V WELDER RECEPTACLE BOOTH 7	35	50/2	50/2	36	208V WELDER RECEPTACLE BOOTH 8
	37			38	
208V WELDER RECEPTACLE BOOTH 9	39	50/2	50/2	40	208V WELDER RECEPTACLE BOOTH 10
	41			42	

5 PANEL 'WLS' SCHEDULE
NO SCALE

PANEL 'AH'

DESCRIPTION: 277/480V, 3Φ, 4W, 150A, MLO, BOTTOM, SURFACE, 18K AIC, 120KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
LIGHTING	1	20/1		2	30/1 PROVISION
SPARE	3	20/1		4	30/1 PROVISION
30/1 PROVISION	5			6	30/1 PROVISION
30/1 PROVISION	7			8	30/1 PROVISION
30/1 PROVISION	9			10	30/1 PROVISION
SPARE (RF ALTERNATE)	11	20/2		12	30/1 PROVISION
	13		20/2	14	RH
SPARE (RF ALTERNATE)	15	20/2		16	
	17		20/2	18	RH
RH	19	20/2		20	
	21		20/2	22	RH
RH	23	20/2		24	
	25		70/3	26	X'FRMR TA / PANEL AL
RH	27	20/2		28	
	29			30	

6 PANEL 'AH' SCHEDULE
NO SCALE

PANEL 'HH'

DESCRIPTION: 277/480V, 3Φ, 4W, 150A, MLO, BOTTOM, SURFACE, 35K AIC, 120 KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
30/1 PROVISION	1			2	30/1 PROVISION
30/1 PROVISION	3			4	30/1 PROVISION
LIGHTING	5	20/1		6	30/1 PROVISION
30/1 PROVISION	7			8	30/1 PROVISION
30/1 PROVISION	9			10	30/1 PROVISION
30/1 PROVISION	11			12	30/1 PROVISION
30/1 PROVISION	13			14	30/1 PROVISION
30/1 PROVISION	15			16	30/1 PROVISION
30/1 PROVISION	17			18	30/1 PROVISION
RH	19	20/2		20	30/1 PROVISION
	21		20/2	22	RH
RH	23	20/2		24	
	25		70/3	26	X'FRMR TH / PANEL HL
RH	27	20/2		28	
	29			30	

7 PANEL 'HH' SCHEDULE
NO SCALE

PANEL 'MH'

DESCRIPTION: 277/480V, 3Φ, 4W, 150A, MLO, BOTTOM, 14K AIC, 120 KA INTEGRAL SPD

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
SPARE	1	20/1		2	30/1 PROVISION
LIGHTING	3	20/1		4	30/1 PROVISION
30/1 PROVISION	5	20/1		6	30/1 PROVISION
30/1 PROVISION	7	20/1		8	30/1 PROVISION
30/1 PROVISION	9	20/1		10	30/1 PROVISION
30/1 PROVISION	11	20/1		12	30/1 PROVISION
30/1 PROVISION	13	20/1		14	30/1 PROVISION
30/1 PROVISION	15	20/1		16	30/1 PROVISION
30/1 PROVISION	17	20/1	20/2	18	RH
RH	19	20/2		20	
	21		20/2	22	SPARE
RH	23	20/2		24	
	25		70/3	26	X'FRMR TM / PANEL ML
RH	27	20/2		28	
	29			30	

8 PANEL 'MH' SCHEDULE
NO SCALE

PANEL 'WHS'

DESCRIPTION: 480V, 3Φ, 3W, 200A, MLO, TOP, 35K AIC

NOTE: THIS PANELBOARD IS CONTAINED IN A MODULAR PANELBOARD SYSTEM

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
30/3 PROVISION	1			2	30/3 PROVISION
	3			4	
	5			6	
SPARE	7	30/3	30/3	8	480V WELDER RECEPTACLE OUTSIDE
	9			10	
	11			12	
480V WELDING RECEPTACLE BOOTH 1	13	30/3	30/3	14	480V WELDING RECEPTACLE BOOTH 2
	15			16	
	17			18	
480V WELDING RECEPTACLE BOOTH 3	19	30/3	30/3	20	480V WELDING RECEPTACLE BOOTH 4
	21			22	
	23			24	
480V WELDING RECEPTACLE BOOTH 5	25	30/3	30/3	26	480V WELDING RECEPTACLE BOOTH 6
	27			28	
	29			30	
480V WELDING RECEPTACLE BOOTH 7	31	30/3	30/3	32	480V WELDING RECEPTACLE BOOTH 8
	33			34	
	35			36	
480V WELDING RECEPTACLE BOOTH 9	37	30/3	30/3	38	480V WELDING RECEPTACLE BOOTH 10
	39			40	
	41			42	

1 PANEL 'WHS' SCHEDULE
NO SCALE

PANEL 'ALS'

DESCRIPTION: 120/208V, 3Φ, 4W, 175A, MLO, TOP, SURFACE, 10K AIC

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
RECEPTACLE - NORTHWEST WALL	1	20/1	20/1	2	RECEPTACLE - SOUTHEAST WALL
RECEPTACLE - NORTHWEST WALL	3	20/1	20/1	4	RECEPTACLE - SOUTHEAST WALL
RECEPTACLE - SOUTHWEST WALL	5	20/1	20/1	6	RECEPTACLE - SOUTHEAST WALL
RECEPTACLE - MISC.	7	20/1	20/1	8	CORD REEL
RECEPTACLE NORTHEAST WALL	9	20/1	20/1	10	CORD REEL
SPARE (RECEPTACLE - SE WALL ALTERNATE)	11	20/1	20/1	12	SPARE (CORD REEL ALTERNATE)
SPARE (RECEPTACLE - SE WALL ALTERNATE)	13	20/1	20/1	14	SPARE
SPARE (RECEPTACLE - NW WALL ALTERNATE)	15	20/1	20/1	16	SPARE
SPARE (RECEPTACLE - NW WALL ALTERNATE)	17	20/1	20/1	18	SPARE
30/1 PROVISION	19			20	30/1 PROVISION
30/1 PROVISION	21			22	30/1 PROVISION
30/1 PROVISION	23			24	30/1 PROVISION
30/1 PROVISION	25			26	30/1 PROVISION
30/1 PROVISION	27			28	30/1 PROVISION
30/1 PROVISION	29			30	30/1 PROVISION
30/1 PROVISION	31		30/2	32	BALANCER
30/1 PROVISION	33			34	
SPARE (LIFT ALTERNATE)	35	30/2	30/2	36	LIFT - NORTHEAST
	37			38	
TIRE CHANGER	39	30/2	30/2	40	LIFT - SOUTHWEST
	41			42	

2 PANEL 'ALS' SCHEDULE
NO SCALE

PANEL 'HLS'

DESCRIPTION: 120/208V, 3Φ, 4W, 175A, MLO, BOTTOM, SURFACE, 10K AIC

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
RECEPTACLE - SOUTHEAST WALL	1	20/1		2	30/1 PROVISION
RECEPTACLE - SOUTHEAST WALL	3	20/1		4	30/1 PROVISION
RECEPTACLE - SOUTHEAST WALL	5	20/1		6	30/1 PROVISION
RECEPTACLE - SOUTHWEST WALL	7	20/1		8	30/1 PROVISION
RECEPTACLE - SOUTHWEST WALL	9	20/1		10	30/1 PROVISION
CORD REEL	11	20/1		12	30/1 PROVISION
CORD REEL	13	20/1		14	30/1 PROVISION
RECEPTACLE - NORTHWEST WALL	15	20/1		16	30/1 PROVISION
RECEPTACLE - NORTHEAST WALL	17	20/1		18	30/1 PROVISION
SPARE	19	20/1	100/3	20	10' BUSWAY
SPARE	21	20/1		22	
SPARE	23	20/1		24	
SPARE	25	20/1	100/3	26	20' BUSWAY
SPARE	27	20/1		28	
SPARE	29	20/1		30	

3 PANEL 'HLS' SCHEDULE
NO SCALE

PANEL 'MLS'

DESCRIPTION: 120/208V, 3Φ, 4W, 150A, MLO, TOP, SURFACE, 10K AIC

CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
RECEPTACLE - SOUTHEAST WALL	1	20/1		2	30/1 PROVISION
RECEPTACLE - SOUTHEAST WALL	3	20/1		4	30/1 PROVISION
RECEPTACLE - SOUTHEAST WALL	5	20/1		6	30/1 PROVISION
RECEPTACLE - NORTHEAST WALL	7	20/1		8	30/1 PROVISION
RECEPTACLE - NORTHEAST WALL	9	20/1		10	30/1 PROVISION
CORD REEL NORTHWEST	11	20/1		12	30/1 PROVISION
CORD REEL SOUTHEAST	13	20/1		14	30/1 PROVISION
RECEPTACLE - NORTHWEST WALL	15	20/1		16	30/1 PROVISION
RECEPTACLE - WEST WALL	17	20/1		18	30/1 PROVISION
SPARE	19	20/1		20	30/1 PROVISION
SPARE	21	20/1		22	30/1 PROVISION
SPARE	23	20/1		24	30/1 PROVISION
SPARE	25	20/1		26	30/1 PROVISION
SPARE	27	20/1		28	30/1 PROVISION
SPARE	29	20/1		30	30/1 PROVISION
30/1 PROVISION	31			32	30/1 PROVISION
30/1 PROVISION	33			34	30/1 PROVISION
30/1 PROVISION	35			36	30/1 PROVISION
30/1 PROVISION	37			38	30/1 PROVISION
30/1 PROVISION	39			40	30/1 PROVISION
30/1 PROVISION	41			42	30/1 PROVISION

4 PANEL 'MLS' SCHEDULE
NO SCALE

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05/22/26 #26017

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SUMTER CENTRAL HIGH SCHOOL - CTE ANNEX
SUMTER COUNTY BOARD OF EDUCATION
13878 US HIGHWAY 11, YORK, AL 36925

BID SET

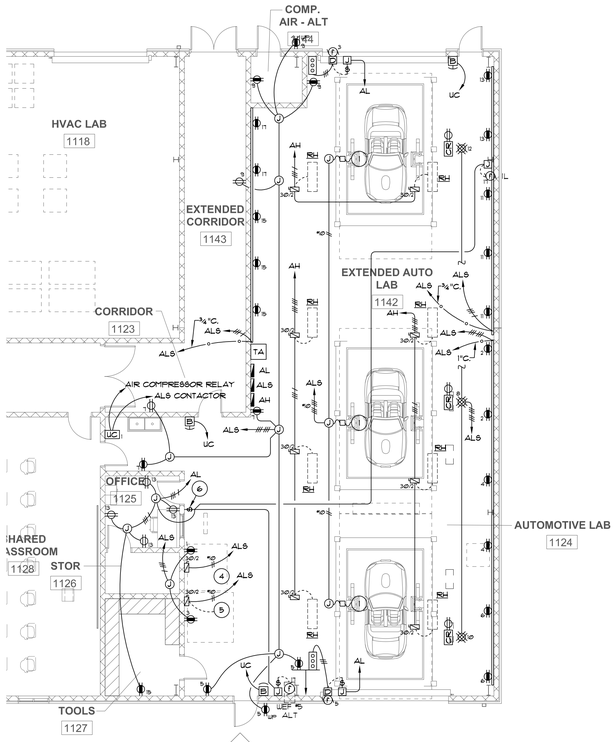
DATE: 05/06/26
PROJ NO: 25-135

REVISIONS

#	DESC	DATE
1	ADD #1	05/22/26

ELECTRICAL SCHEDULES & DETAIL

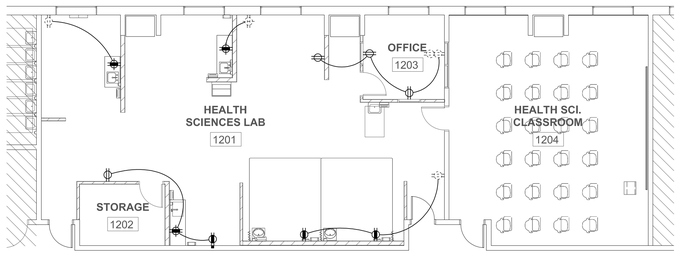
E002



3 ALTERNATE POWER WIRING PLAN
1/8" = 1'-0"

1. CONNECTION TO LIFT, SEE CORD DROP DETAIL
2. TO WALL EXHAUST FAN SWITCH IN 'HVAC LAB 1118'
3. CONNECT TO CIRCULATION PUMP VIA AQUASTAT
4. CONNECTION TO WHEEL BALANCER
5. CONNECTION TO TIRE CHANGER
6. ENGRAVED PLATE "WALL EXHAUST FAN"
7. MODULAR PANELBAORD SYSTEM, SEE DETAIL

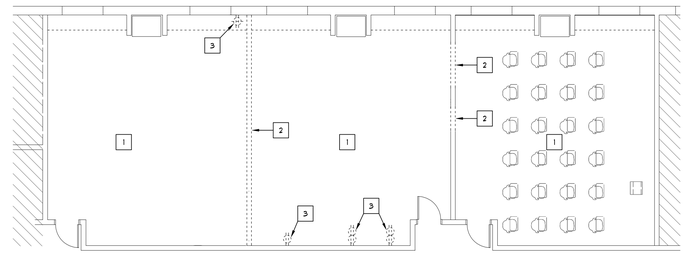
6 POWER WIRING REFERENCE NOTES
NO SCALE



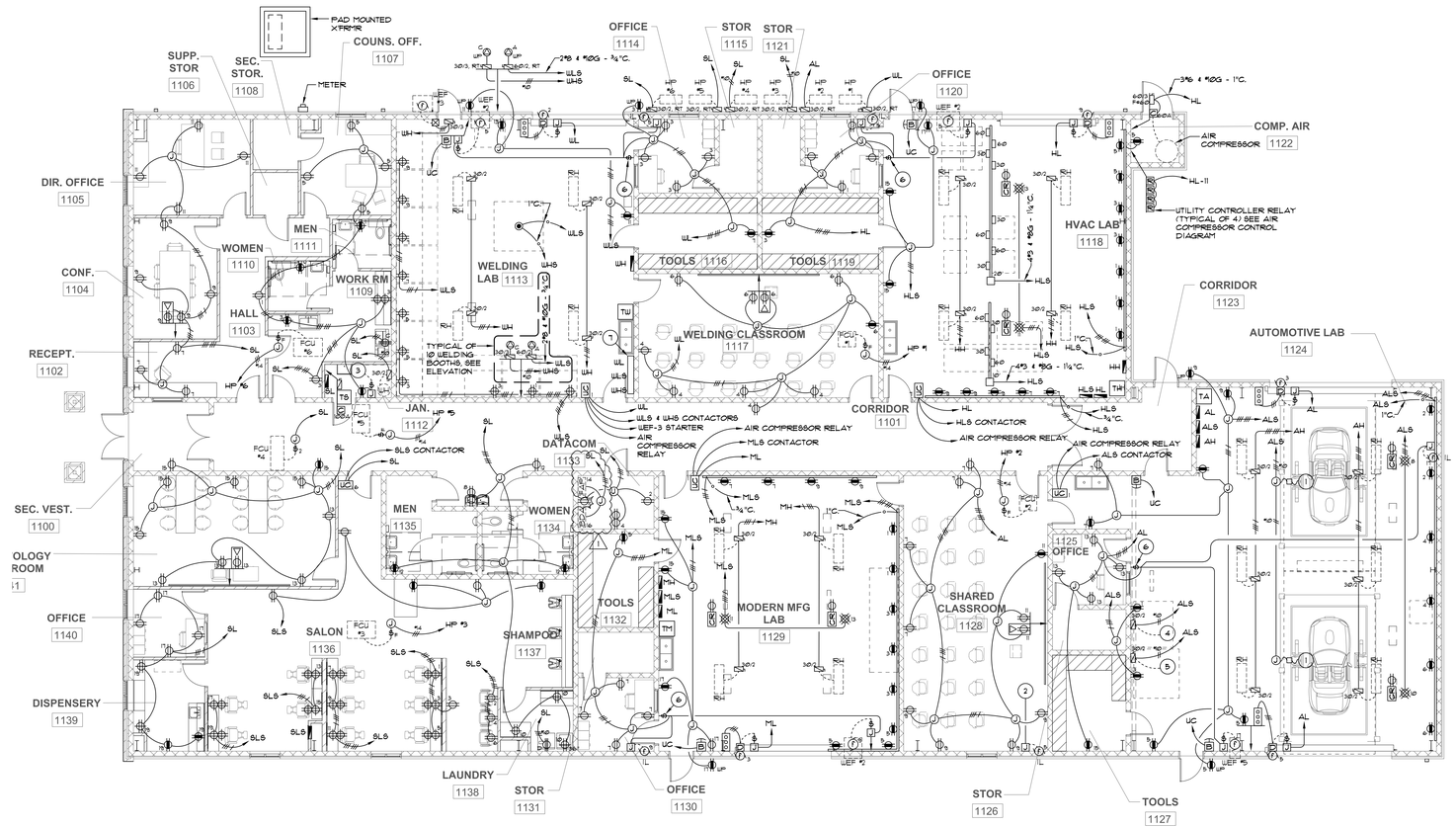
4 HEALTH SCIENCE POWER WIRING PLAN
1/8" = 1'-0"

1. REMOVE LIGHTING AND ASSOCIATED CIRCUITRY
2. REMOVE EXISTING ELECTRICAL WORK IN OR ON WALL / PORTION OF WALL TO BE DEMOLISHED, DOWNSTREAM DEVICES TO REMAIN ACTIVE
3. REMOVE DEVICE AND OUTLET, DOWNSTREAM DEVICES TO REMAIN ACTIVE

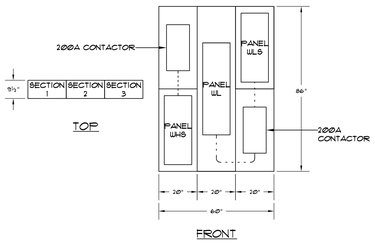
7 DEMO REFERENCE NOTES
NO SCALE



5 HEALTH SCIENCE DEMO
1/8" = 1'-0"



1 POWER WIRING PLAN
1/8" = 1'-0"



2 MODULAR PANELBOARD SYSTEM DETAIL
NOT TO SCALE

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 18345 RANDALL H. SMITH
05/22/26

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SUMTER COUNTY BOARD OF EDUCATION
13878 US HIGHWAY 11, YORK, AL 36925

BID SET

DATE: 05/06/26
PROJ NO: 25-135

REVISIONS

#	DESC	DATE
1	ADD #1	05/22/26

DEMO & POWER WIRING PLANS

E101

ABBREVIATIONS: A/V - AUDIO / VISUAL, CBB - COMMUNICATIONS BACKBOARD, PC - PROTECTIVE COVER, TER - TELECOM EQUIPMENT RACK, WAP - WIRELESS ACCESS POINT, WG - WIRE GUARD, WP - WEATHERPROOF

- EXISTING WALL COMMUNICATION OUTLET
- EXISTING CEILING INTERCOM SPEAKER
- EXISTING INTERCOM CALL-IN SWITCH
- WALL COMMUNICATION OUTLET, 18" AFF AND WITHIN 6" FROM POWER RECEPTACLE (IF ADJACENT), 4 11/16 X 4 11/16 X 2 1/8" J-BOX WITH SINGLE GANG DEVICE COVER, SEE 'AUXILIARY CONDUIT DETAIL' FOR CONDUIT REQUIREMENTS, 'D' (DATA) SUBSCRIPT INDICATES DATA JACK, LEVITON #61UJK-RL6 (BLUE), QUANTITY AS INDICATED, CAT6 CABLE (BLUE JACKET) TO RESPECTIVE TELECOM RACK WITH TERMINATION ON PATCH PANEL, OUTLET FACEPLATE TO BE LEVITON #43080-1S6 (6-PORT, STAINLESS STEEL), INSTALL LEVITON #41084-0BG (GREY) BLANK KEYSTONES ON UNUSED PORTS, INSTALL BLANK FACEPLATES ON UNUSED COMMUNICATION OUTLETS
- WALL COMMUNICATION OUTLET, SPECIAL HEIGHT AS PER PLAN OR AS PER ADJACENT RECEPTACLE, CONDUIT, CABLING, AND JACKS SAME AS STANDARD WALL COMMUNICATION OUTLET
- MULTI-SERVICE WALL BOX, SEE 'ELECTRICAL SYMBOLS LIST' FOR WALL BOX DESCRIPTION AND CONDUIT REQUIREMENTS, 'D' (DATA) SUBSCRIPT INDICATES DATA JACK, LEVITON #61UJK-RL6 (BLUE), QUANTITY AS INDICATED, CAT6 CABLE (BLUE JACKET) TO RESPECTIVE TELECOM RACK WITH TERMINATION ON PATCH PANEL, OUTLET FACEPLATE TO BE LEVITON #43080-1S6 (6-PORT, STAINLESS STEEL), INSTALL LEVITON #41084-0BG (GREY) BLANK KEYSTONES ON UNUSED PORTS
- CEILING COMMUNICATION OUTLET FOR WAP (UNLESS NOTED OTHERWISE),
  - ACCESSIBLE CEILING LOCATIONS: 4 11/16 X 4 11/16 X 2 1/8" J-BOX INSTALLED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE (J-BOX MUST BE ACCESSIBLE), INSTALL SINGLE GANG DECORA DEVICE COVER WITH LEVITON #41642 (2-PORT) DEVICE INSERT (COLOR TO MATCH RECEPTACLES), SEE 'AUXILIARY CONDUIT DETAIL' FOR CONDUIT REQUIREMENTS, 'D' SUBSCRIPT INDICATES DATA JACK, LEVITON #61UJK-RV6 (GREEN), QUANTITY AS INDICATED, CAT6 CABLE (GREEN JACKET) TO RESPECTIVE TELECOM RACK WITH TERMINATION ON PATCH PANEL, INSTALL LEVITON 41084 (COLOR TO MATCH INSERT) BLANK KEYSTONES ON UNUSED PORTS
  - HARD CEILING LOCATIONS: 4 11/16 X 4 11/16 X 2 1/8" J-BOX WITH SINGLE GANG DEVICE COVER, SEE 'AUXILIARY CONDUIT DETAIL' FOR CONDUIT REQUIREMENTS, 'D' SUBSCRIPT INDICATES 12" OF CAT6 CABLE (GREEN JACKET) AT LOCATION WITH LEVITON #61UJK-RV6 (GREEN) DATA JACK ON CABLE END, HOMERUN TO RESPECTIVE TELECOM RACK WITH TERMINATION ON PATCH PANEL
- 1 FUTURE CAMERA LOCATION, MOUNTING AS FOLLOWS: NO SUFFIX - CEILING, 'W' - WALL,
  - ACCESSIBLE CEILING LOCATIONS: 4 11/16 X 4 11/16 X 2 1/8" J-BOX INSTALLED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE (J-BOX MUST BE ACCESSIBLE), SEE 'AUXILIARY CONDUIT DETAIL' FOR CONDUIT REQUIREMENTS
  - WALL MOUNTED AND HARD CEILING LOCATIONS: 4 11/16 X 4 11/16 X 2 1/8" J-BOX WITH SINGLE GANG DEVICE COVER, SEE 'AUXILIARY CONDUIT DETAIL' FOR CONDUIT REQUIREMENTS
- WALL AUDIO / VISUAL (A/V) OUTLET, 18" AFF AND WITHIN 6" FROM POWER RECEPTACLE OR WALL COMMUNICATION OUTLET (IF ADJACENT), 4 11/16 X 4 11/16 X 3 1/4" J-BOX (RACO #260 OR EQUAL), SINGLE OR DOUBLE GANG DEVICE COVER AS REQUIRED, SUBSCRIPT INDICATES A/V OUTLET TYPE (NO SUBSCRIPT - INSTALL BLANK FACEPLATE), SEE 'AUDIO / VISUAL OUTLET DETAIL' FOR ADDITIONAL INFORMATION, 1 1/4"C. PER GANG STUBBED TO ABOVE ACCESSIBLE CEILING, BUSHING ON CONDUIT END(S), SEE RESPECTIVE AV WIRING DIAGRAM FOR CABLING INFORMATION
- WALL AUDIO / VISUAL (A/V) OUTLET, SPECIAL HEIGHT AS PER PLAN OR AS PER ADJACENT RECEPTACLE, CONDUIT, DEVICE(S), AND CABLING SAME AS STANDARD WALL AUDIO / VISUAL OUTLET
- KP — WALL OUTLET FOR ACCESS CONTROL KEYPAD (DEVICE BY OTHERS), SEE 'ACCESS CONTROL DETAIL' FOR ADDITIONAL INFORMATION
- AI — WALL OUTLET FOR VIDEO INTERCOM STATION (DEVICE BY OTHERS), SEE 'ACCESS CONTROL DETAIL' FOR ADDITIONAL INFORMATION
- S — 2X2' LAY-IN CEILING SPEAKER, BOGEN #CSD2X2U-V2 (BRIGHT WHITE FINISH), SUPPORT SPEAKER AT ALL FOUR (4) CORNERS INDEPENDENT OF CEILING GRID, 18/2 SPEAKER AUDIO CABLE IN 3/4"C., DAISY CHAIN SPEAKERS WITHIN RESPECTIVE PAGING ZONE, HOME RUN 18/2 SPEAKER AUDIO CABLE FROM FIRST SPEAKER IN RUN TO 110 BLOCK MOUNTED TO RESPECTIVE CBB, ROUTE CONDUIT SUCH THAT CONDUIT/CABLE RUN IS MINIMIZED
- S — WALL MOUNTED PAGING HORN, BOGEN #SPT15A, HEIGHT AS INDICATED ON PLAN, 18/2 SPEAKER AUDIO CABLE IN 3/4"C., DAISY CHAIN SPEAKERS WITHIN RESPECTIVE PAGING ZONE, HOME RUN 18/2 SPEAKER AUDIO CABLE FROM FIRST HORN IN RUN TO 110 BLOCK MOUNTED TO RESPECTIVE CBB, ROUTE CONDUIT SUCH THAT CONDUIT/CABLE RUN IS MINIMIZED, 'WG' SUBSCRIPT INDICATES WIRE GUARD, AMERICAN TIME #G2074-WEB (OR APPROVED EQUAL), VERIFY PROPER DIMENSIONS
- WALL OUTLET, INTERCOM CALL-IN SWITCH, BOGEN #CA10A, 46" AFF, HOME RUN 18/2 SPEAKER AUDIO CABLE TO 110 BLOCK MOUNTED TO RESPECTIVE CBB
- CABLE SUPPORT SYSTEM ABOVE ACCESSIBLE CEILING, 12"WX2"D WIRE BASKET TRAY, COORDINATE WITH HVAC CONTRACTOR TO AVOID CONFLICTS

FIRE ALARM SYMBOLS

- EXISTING WALL MOUNTED AUDIBLE VISUAL NOTIFICATION APPLIANCE, SPEAKER, RED W/ WHITE 'FIRE' MARKING
- FAP — FIRE ALARM PANEL W/ PAGING MICROPHONE, EDWARDS EST3X, RED, SURFACE MOUNT
- ANN — REMOTE ANNUNCIATOR PANEL, EDWARDS #RLCD-R, RED, SURFACE MOUNT, 54" AFF
- DB — FIRE ALARM DOCUMENT BOX, SPACE AGE ELECTRONICS #SSU00685, SURFACE MOUNT, STORE PROJECT DOCUMENTS AS REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ)
- CEILING OUTLET, SMOKE DETECTOR, EDWARDS #SIGA-OSD (PHOTOELECTRIC) W/ EDWARDS #SIGA-SB MOUNTING BASE
- CEILING OUTLET, HEAT DETECTOR, EDWARDS #SIGA-HRD (135°F AND 15°/MIN RATE-OF-RISE) W/ EDWARDS #SIGA-SB MOUNTING BASE
- H — ELECTROMAGNETIC HOLD OPEN, EDWARDS #1505-AQN5
- M — PULL STATION, SEMI-FLUSH, DOUBLE-ACTION, ADDRESSABLE, EDWARDS #SIGA-278, 46" AFF, 'PC' SUBSCRIPT INDICATES CLEAR PROTECTIVE COVER WITHOUT ALARM, STI STOPPER II OR EQUAL
- F — WALL OUTLET, AUDIBLE NOTIFICATION APPLIANCE, SPEAKER, EDWARDS #G4SWA, WHITE W/ RED 'ALERT' MARKING, 7'-4" AFF
- WALL OUTLET, AUDIBLE VISUAL NOTIFICATION APPLIANCE, EDWARDS #G4SVWA, SPEAKER, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 7'-4" AFF, 15 CANDELA OR AS INDICATED BY SUBSCRIPT, 1/4W OR AS INDICATED BY SUBSCRIPT
- WP — WALL OUTLET, WEATHERPROOF AUDIBLE VISUAL NOTIFICATION APPLIANCE, EDWARDS #WG4WA-SVMC, SPEAKER, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 7'-4" AFF, 15 CANDELA OR AS INDICATED BY SUBSCRIPT, 1/4W OR AS INDICATED BY SUBSCRIPT
- WALL OUTLET, VISUAL NOTIFICATION APPLIANCE, EDWARDS #G4VWA, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 7'-4" AFF, 15 CANDELA OR AS INDICATED BY SUBSCRIPT
- CEILING OUTLET, AUDIBLE VISUAL NOTIFICATION APPLIANCE, EDWARDS #GCSVWA, SPEAKER, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 15 CANDELA OR AS INDICATED BY SUBSCRIPT, 1/4W OR AS INDICATED BY SUBSCRIPT
- CEILING OUTLET, VISUAL NOTIFICATION APPLIANCE, EDWADS #GCVWA, WHITE W/ CLEAR LENS AND RED 'ALERT' MARKING, SYNCHRONIZED FLASH, 15 CANDELA OR AS INDICATED BY SUBSCRIPT
- BDA — IN-BUILDING 2-WAY EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM, BI-DIRECTIONAL AMPLIFIER (BDA), SYSTEM TO BE MANUFACTURED BY FIPLEX OR APPROVED EQUAL, COORDINATE FREQUENCY REQUIREMENTS WITH THE AHJ, SYSTEM TO BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- BAN — BI-DIRECTIONAL AMPLIFIER (BDA) BATTERY BACKUP UNIT W/ BUILT-IN ANNUNCIATOR, UNIT TO BE MANUFACTURED BY FIPLEX OR APPROVED EQUAL, UNIT TO BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS
- BI-DIRECTIONAL AMPLIFIER DONOR ANTENNA, ANTENNA TO BE MANUFACTURED BY FIPLEX OR EQUAL, COORDINATE FREQUENCY REQUIREMENTS WITH THE AHJ, CABLING TO BE INSTALLED IN 1 1/2" CONDUIT BACK TO BDA
- BI-DIRECTIONAL AMPLIFIER INDOOR DAS ANTENNA, ANTENNA TO BE MANUFACTURED BY FIPLEX OR APPROVED EQUAL, COORDINATE FREQUENCY REQUIREMENTS WITH THE AHJ, INSTALL ABOVE ACCESSIBLE CEILING

1 AUXILIARY SYMBOLS LIST
NO SCALE

GENERAL:
- ALL HEIGHTS ARE CENTERLINE UNLESS NOTED OTHERWISE
- INSTALL FIRESTOPPING IN ALL PENETRATIONS OF FIRE-RATED WALLS OR CEILINGS USING APPROVED FIRESTOPPING MATERIALS AND METHODS IN ORDER TO MAINTAIN FIRE-RATING INTEGRITY
- ALL DEVICES IN EXISTING WALLS TO BE FURRED SHALL BE (RE)INSTALLED FLUSH WITH NEW WALLS
- ALL CONDUIT INDICATED TO STUB TO ABOVE ACCESSIBLE CEILING SHALL EXTEND A MINIMUM OF 6" ABOVE THE ACCESSIBLE CEILING

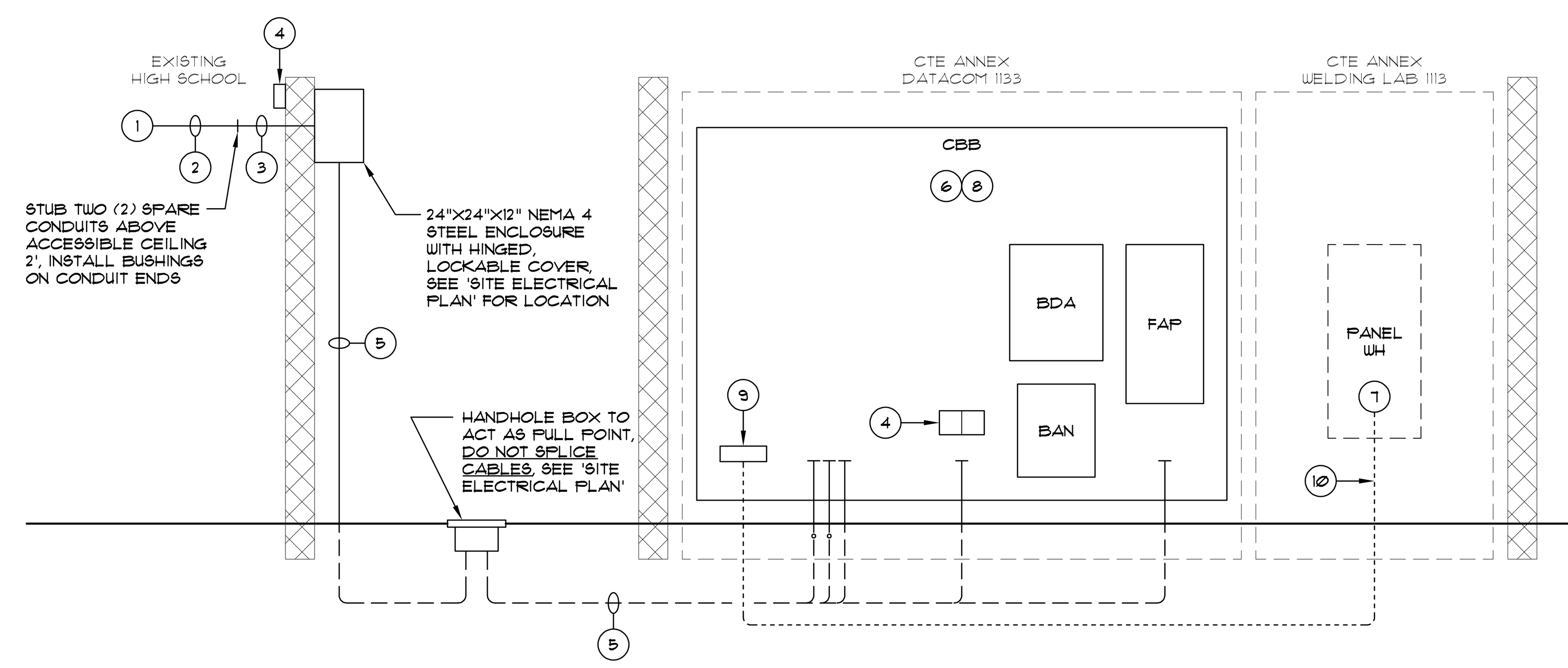
COMMUNICATIONS:
- CABLE COLORS SHALL BE AS FOLLOWS:
  - STANDARD DATA: BLUE
  - WIRELESS ACCESS POINTS: GREEN 1
- LABEL ENDS OF CABLES, FACEPLATES, & PATCH PANELS W/ CABLE IDENTIFICATION, COORDINATE WITH OWNER FOR LABELING FORMAT, ELECTRONICALLY PRINTED LABELS TO BE INSTALLED ON FACEPLATES & PATCH PANELS IN NEAT AND PROFESSIONAL MANNER
- TELECOM RACK ELEVATIONS ARE FOR ILLUSTRATION PURPOSES ONLY, COMMUNICATIONS CONTRACTOR TO PROVIDE ACTUAL QUANTITIES OF RACK EQUIPMENT AS REQUIRED
- COORDINATE WITH OWNER PRIOR TO INSTALLATION:
  - PATCH PANEL PUNCH DOWN LOCATIONS FOR CAMERAS, WAPs, AND STANDARD DATA OUTLETS
  - RACK EQUIPMENT AND BACKBOARD-MOUNTED EQUIPMENT LOCATIONS
- LEAVE MINIMUM 5' OF SLACK CABLE AT PATCH PANEL TO ALLOW FOR FUTURE CONNECTION RELOCATION, SLACK CABLE TO BE COILED IN A NEAT AND PROFESSIONAL MANNER

INTERCOM:
- THE INTERCOM SYSTEM FOR THE NEW CTE ANNEX SHOULD TIE INTO THE EXISTING TELECOR XL INTERCOM SYSTEM IN THE HIGH SCHOOL BUILDING.
- ALL CEILING SPEAKERS SCHEDULED FOR RE-USE SHALL BE CLEANED AND TESTED FOR PROPER FUNCTIONALITY PRIOR TO REINSTALLATION.

FIRE ALARM:
- THE FIRE ALARM SYSTEM FOR THE NEW CTE ANNEX SHOULD NETWORK VIA FIBER (SINGLE MODE PREFERRED) WITH THE EXISTING EDWARDS EST3X FIRE ALARM PANEL IN THE HIGH SCHOOL BUILDING. THE CTE ANNEX SHOULD ACT INDEPENDENTLY. CALL OUT SHOULD OCCUR VIA THE EXISTING FIRE ALARM PANEL AND ANNUNCIATION OF ALL TROUBLE, SUPERVISORY, AND ALARM SIGNALS AT THE CTE ANNEX SHOULD ALSO ANNUNCIATE AT THE HIGH SCHOOL PANEL.
- THE CERTIFIED FIRE ALARM ACT REQUIRES THE FOLLOWING:
  1. EVERY BUSINESS WHO INSTALLS FIRE ALARM SYSTEMS IN COMMERCIAL OCCUPANCIES MUST BE LICENSED THROUGH THE STATE OF ALABAMA FIRE MARSHAL'S OFFICE AS A CERTIFIED FIRE ALARM CONTRACTOR. THE CONTRACTOR MUST HAVE A NICET LEVEL III TECHNICIAN IN A POSITION OF RESPONSIBILITY AND THE LICENSE MUST BE ISSUED IN THE NAME OF THE CERTIFICATE HOLDER AND THE CONTRACTOR.
  2. TECHNICIANS WORKING FOR THE CERTIFIED CONTRACTOR MUST HOLD A CURRENT NICET LEVEL II OR EQUIVALENT CERTIFICATION.

  CONTRACTORS WISHING TO BID ON THE FIRE ALARM WORK MUST SHOW EVIDENCE AT THE PRE-BID CONFERENCE THAT HE/ SHE MEETS THE CERTIFICATION REQUIREMENTS OF THE ACT AND HOLDS A PERMIT ISSUED BY THE STATE FIRE MARSHALL.
- ANY FIRE ALARM WORK INDICATED ON THE DRAWINGS THAT WILL CAUSE IMPAIRMENT TO THE EXISTING SYSTEM SHALL BE COORDINATED WITH THE OWNER AND THE AHJ PRIOR TO THE WORK BEING PERFORMED. SYSTEM IMPAIRMENT PROCEDURES SHALL COMPLY WITH NFPA 72 (2019) SECTION 10.21
- THE FIRE ALARM SYSTEM WORK SHALL BE PERFORMED AS PER NFPA 72 (2019) 10.4 AND 10.5.2., THE SYSTEM IS TO BE CERTIFIED UPON COMPLETION OF WORK AND A 'RECORD OF COMPLETION' SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72 (2019) PER IBC (2021) 907.7.2.
- SMOKE AND HEAT DETECTORS SHALL NOT BE INSTALLED IN A DIRECT AIRFLOW OR CLOSER THAN 36" FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING (NFPA 72 2019 17.7.4.1), COORDINATE WITH HVAC.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72 (2019) (IFC 2021 907.6.6)
- ALL NOTIFICATION APPLIANCES SHALL BE LOCATED AS INDICATED ON THE PLANS, THE FIRE ALARM CONTRACTOR SHALL NOT RELOCATE ANY DEVICES (INCLUDING RELOCATING A WALL MOUNTED DEVICE TO THE CEILING OR VICE VERSA) WITHOUT CONSULTING THE ENGINEER
- ALL INITIATING DEVICES SHALL BE PHYSICALLY LABELED USING MACHINE-PRINTED, ADHESIVE LABELS (WHITE BACKGROUND W/ BLACK TEXT). LABELS SHALL INDICATE DEVICE ADDRESS AS PROGRAMMED IN THE FIRE ALARM PANEL
- EACH INTERBUILDING CIRCUIT SHALL BE PROTECTED BY A LISTED PRIMARY PROTECTOR AT EACH END OF THE INTERBUILDING CIRCUIT
- INSTALL RED CIRCUIT BREAKER LOCKS ON ALL CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT, SPACE AGE ELECTRONICS #ELOCK-FA OR EQUAL, IDENTIFY BREAKERS AS 'FIRE ALARM CIRCUIT'
- THE LOCATION OF THE BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE (PANEL ID AND CIRCUIT NUMBER) SHALL BE PERMANENTLY IDENTIFIED ON THE FRONT OF ALL FIRE ALARM EQUIPMENT
- BRANCH CIRCUITS SUPPLYING FIRE ALARM EQUIPMENT SHALL SUPPLY NO OTHER LOADS AND SHALL NOT BE SUPPLIED THROUGH GROUND-FAULT CIRCUIT INTERRUPTERS OR ARC-FAULT CIRCUIT INTERRUPTERS
- ALL FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT, J-BOXES TO HAVE RED COVERS WITH WHITE 'FA' LETTERS, IDENTIFY CONDUIT AS PER SPECIFICATION SECTION 260553
- THE OPERABLE PART OF ALL MANUAL PULL STATIONS SHALL BE NO LESS THAN 42" AFF AND NO MORE THAN 48" AFF.
- ~~THE FIRE ALARM CONTRACTOR SHALL EMPLOY THE SERVICES OF A LICENSED~~ PROFESSIONAL ENGINEER (LICENSED TO PRACTICE IN THE STATE OF ALABAMA) TO SUPERVISE THE DEVELOPMENT OF THE FIRE ALARM SHOP DRAWINGS. THE ENGINEER SHALL BE FAMILIAR WITH ALL ELEMENTS OF THE FIRE ALARM SYSTEM INCLUDING THOSE OF WHICH ARE PROPRIETARY TO THE SUPPLYING MANUFACTURER AND SHALL BE CAPABLE OF VERIFYING ALL INFORMATION SHOWN ON THE DRAWINGS. THE ENGINEER SHALL CERTIFY THE DRAWINGS BY USE OF THEIR SEAL (SIGNED AND DATED). THE SEALED SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND THE AHJ FOR REVIEW.
- ~~THE BDA SYSTEMS SHALL BE BID AS FOLLOWS:~~
  - BASE BID: INITIAL SURVEY OF BUILDING AS DESCRIBED IN SPECIFICATION SECTION 285000
  - UNIT PRICE (SEE SPECIFICATION SECTION 012200): INSTALLATION AND TESTING OF BDA AS PER PLANS AND SPECIFICATION SECTION 285001
  - ALLOWANCE (SEE SPECIFICATION SECTION 012100): INCLUDE A CONTINGENCY ALLOWANCE OF $15,000.00 TO COVER ANY ADDITIONAL REQUIREMENTS TO THE BDA SYSTEM BEYOND THE SCOPE AS DESCRIBED ON THE ELECTRICAL DRAWINGS AND SPECIFICATIONS
- THE FIRE ALARM SYSTEM SHALL MONITOR THE BI-DIRECTIONAL AMPLIFER (BDA) AS PER IFC (2021) 510.4.2.5 AND SPECIFICATION SECTION 285001. SUPERVISORY SIGNALS SHALL ANNUNCIATE AT THE FIRE ALARM PANEL AND ALL REMOTE ANNUNCIATOR PANELS.

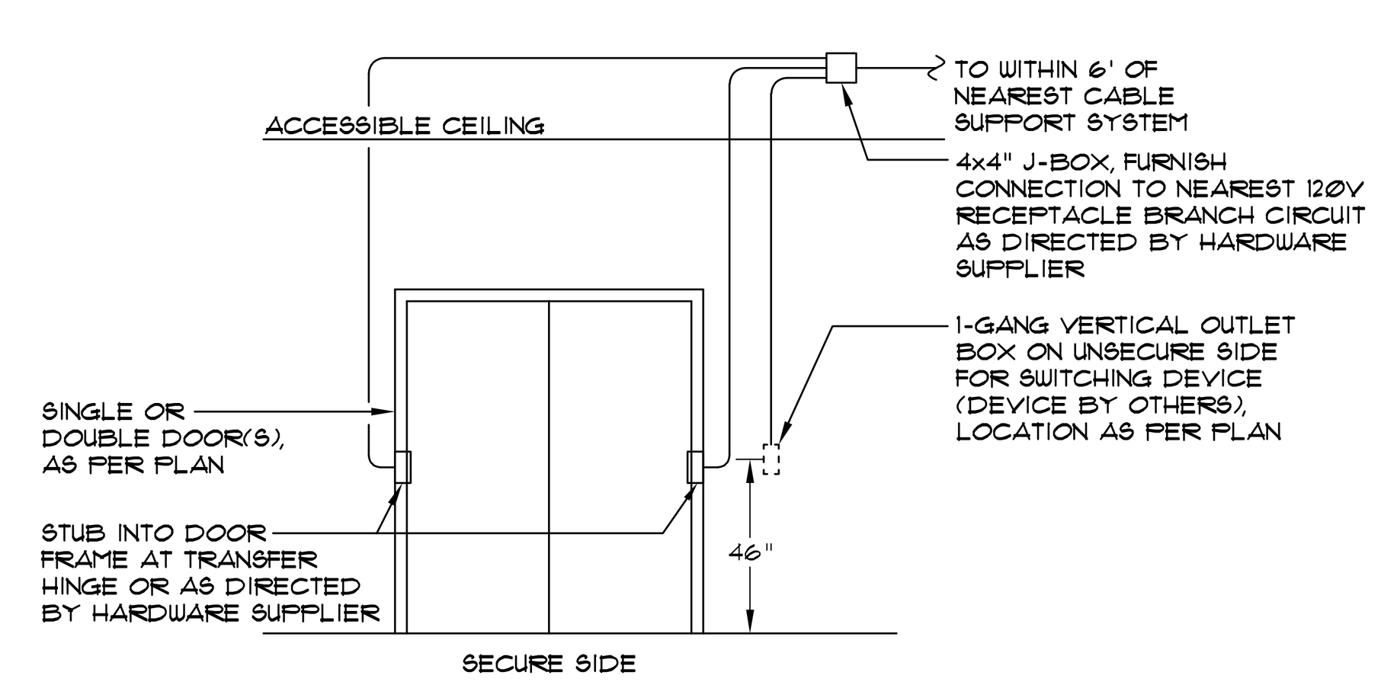
2 GENERAL AUXILIARY NOTES
NO SCALE



1. INCLUDE 500' OF CONDUIT AND CABLING FOR ROUTING WITHIN EXISTING BUILDING, TERMINATION POINTS TO BE DETERMINED DURING CONSTRUCTION, TERMINATE FIBER CABLE FOR DATA WITH 'LC' CONNECTORS ON RACK MOUNTED FIBER PATCH PANELS, TERMINATE COPPER CABLES ON DEDICATED CARBON PROTECTED TERMINAL BLOCKS ON COMMUNICATION BACKBOARD FOR INTERCOM SYSTEM EQUIPMENT
2. (1) 12 STRAND, SINGLE-MODE, OS2, INDOOR / OUTDOOR TIGHT BUFFER PLENUM FIBER IN 2"C. FOR DATA, GENERAL CABLE #AP0121ANU.BK OR EQUAL
   (1) 25 PAIR (24 PAIR AWG), CAT 3 PLENUM COPPER CABLE IN 2"C. FOR INTERCOM SYSTEM, GENERAL CABLE #2131505.99 OR EQUAL
   (1) 2" SPARE CONDUIT FOR FIRE ALARM CABLING
   INSTALL BUSHINGS ON ALL CONDUIT ENDS
3. (1) 12 STRAND, SINGLE-MODE, OS2, INDOOR / OUTDOOR TIGHT BUFFER PLENUM FIBER IN 2"C. FOR DATA, GENERAL CABLE #AP0121ANU.BK OR EQUAL
   (1) 25 PAIR (24 PAIR AWG), CAT 3 PLENUM COPPER CABLE IN 2"C. FOR INTERCOM SYSTEM, GENERAL CABLE #2131505.99 OR EQUAL
   (3) 2" SPARE CONDUITS FOR FIRE ALARM CABLING AND OTHER AUXILIARY SYSTEMS
   INSTALL BUSHINGS ON ALL CONDUIT ENDS
4. INDOOR BUILDING ENTRANCE TERMINAL (BET) 110/110 CONNECTOR, CIRCAMAX #1880ECA1-25 OR APPROVED EQUAL, TERMINATE PAGING SYSTEM COPPER CABLING ON 110 BLOCKS PROVIDED, FURNISH AND INSTALL CIRCAMAX #4B1S-300 5 PIN SOLID STATE SURGE PROTECTION MODULES, INSTALL #6 INSULATED (GREEN) GROUNDING CONDUCTOR FROM RESPECTIVE TELECOMMUNICATIONS GROUNDING BUSBAR TO BET GROUND LUG (INSTALL IN 3/4"C. IF NOT LOCATED WITHIN THE SAME SPACE AS THE GROUNDING BUSBAR), INTERRUPT OSP CABLE SHIELD AS REQUIRED BY NEC 805.93, LOCATE BET AS CLOSE AS PRACTICAL TO CABLE ENTRANCE, OSP CABLING NOT TO EXCEED 50' WITHIN BUILDING.
5. (1) 12 STRAND, SINGLE-MODE, OS2, INDOOR / OUTDOOR TIGHT BUFFER PLENUM FIBER IN 2"C. FOR DATA, GENERAL CABLE #AP0121ANU.BK OR EQUAL
   (1) 25 PAIR (19 PAIR AWG), FILLED FOAM SKIN COPPER CABLE IN 2"C. FOR INTERCOM SYSTEM, GENERAL CABLE #7525538 OR EQUAL
   (3) 2" SPARE CONDUITS FOR FIRE ALARM CABLING AND OTHER AUXILIARY SYSTEMS
   INSTALL BUSHINGS ON ALL CONDUIT ENDS
6. TERMINATE FIBER CABLE FOR DATA WITH 'LC' CONNECTORS ON RACK MOUNTED FIBER PATCH PANELS, AND TERMINATE COPPER CABLES ON DEDICATED CARBON PROTECTED TERMINAL BLOCKS ON COMMUNICATION BACKBOARD FOR INTERCOM SYSTEM EQUIPMENT
7. CONNECT TO GROUNDING ELECTRODE
8. INSTALL A DEDICATED #6 EQUIPMENT BONDING CONDUCTOR FROM ALL RACKS, ENCLOSURES, CABLE TRAYS, AND STRUCTURAL STEEL (CONNECT TO VERTICAL COLUMNS IF WITHIN SAME SPACE) TO THEIR RESPECTIVE GROUNDING BUSBAR
9. TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB), COPPER, 12"LX4"HX1/4"W WITH PRE-DRILLED HOLES FOR USE WITH STANDARD 2-HOLE LUGS AND INSULATING STAND-OFF MOUNT PROVIDING A MINIMUM OF 2" SEPARATION FROM WALL, MOUNT 18" AFF NEAR RESPECTIVE DATA RACK
10. 1/0 INSULATED (GREEN) GROUNDING CONDUCTOR IN 2"C., INSTALL #6 BONDING JUMPER AT GROUNDING BUSBAR

NOTE: EACH TELECOMMUNICATIONS BONDING CONDUCTOR SHALL BE LABELED, LABELS SHALL BE LOCATED ON CONDUCTORS AS CLOSE AS PRACTICAL TO THEIR POINT OF TERMINATION IN A READABLE POSITION, SHALL BE NONMETALLIC, AND SHALL INCLUDE THE FOLLOWING INFORMATION: "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER."

9 AUXILIARY RISER DIAGRAM
NO SCALE



NOTES:
- ACCESS CONTROL LOCATIONS SHALL AUTOMATICALLY UNLOCK IN THE DIRECTION OF EGRESS UPON:
  1. LOSS OF POWER
  2. ACTIVATION OF THE FIRE ALARM SYSTEM
- INSTALL BUSHINGS ON ALL NON-TERMINATED CONDUIT ENDS
- ALL CONDUIT SHALL BE 3/4" NOMINAL

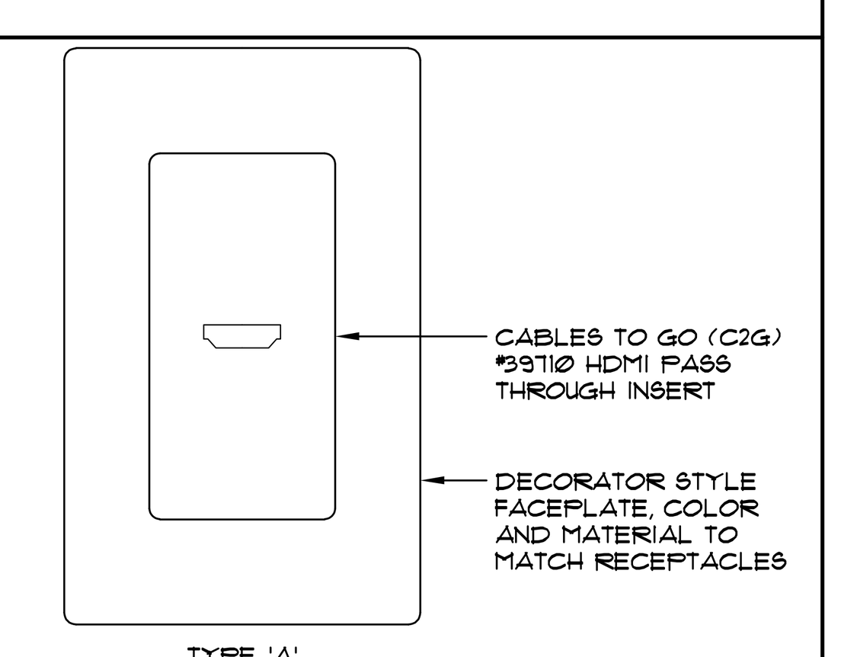
6 ACCESS CONTROL DETAIL
NO SCALE

TA-A-12

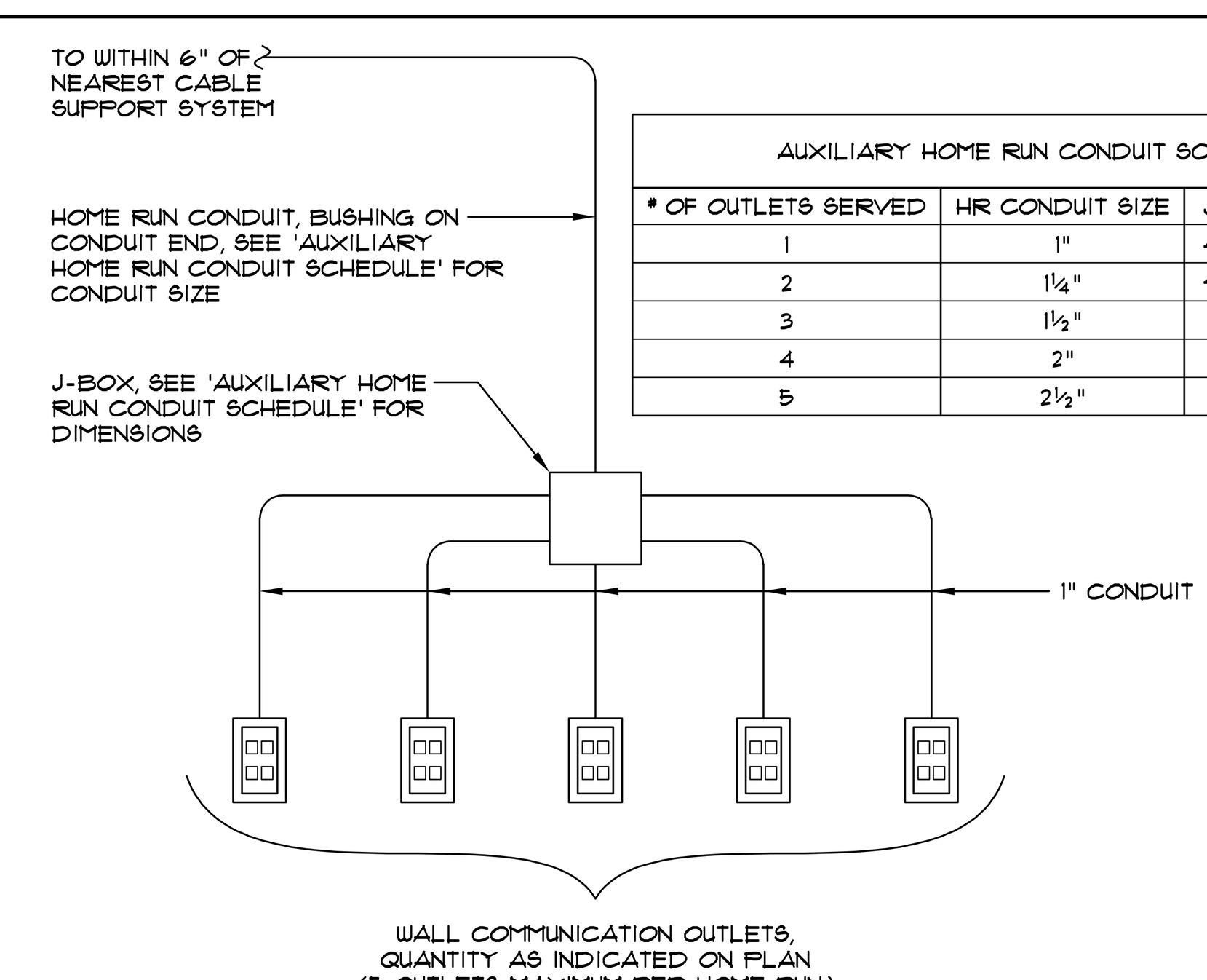
TELECOM EQUIPMENT RACK DESIGNATION — PATCH PANEL DESIGNATION — PATCH PANEL PORT NUMBER

NOTE: THE LABELING FORMAT OUTLINED ABOVE SHALL BE USED UNLESS DIRECTED OTHERWISE BY THE OWNER

8 COMMUNICATION OUTLET LABELING FORMAT DETAIL
NO SCALE



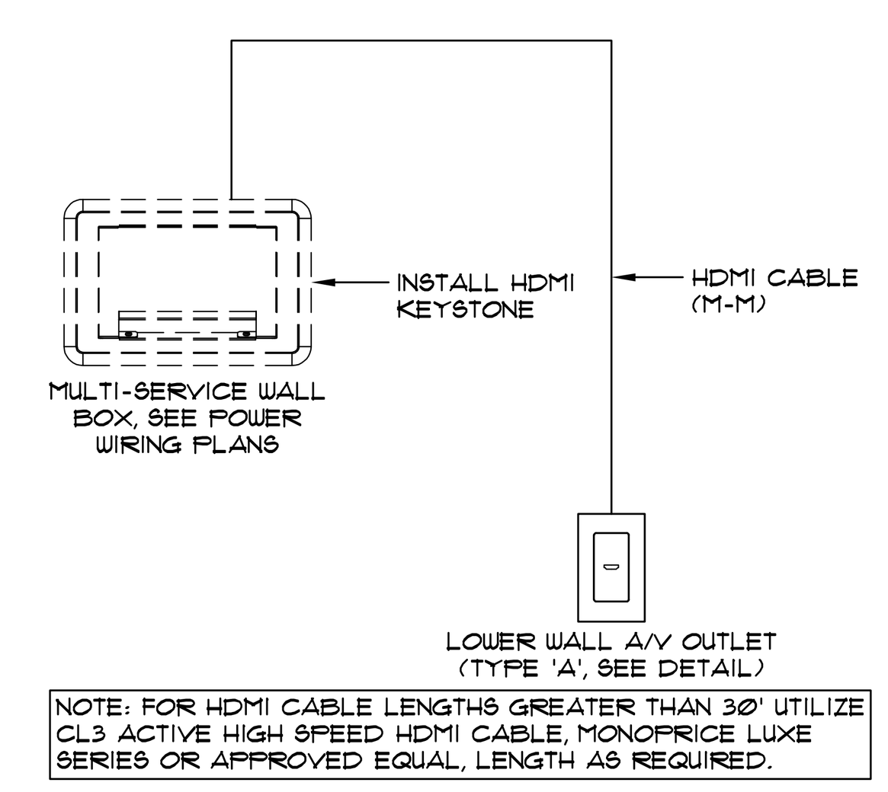
7 A/V OUTLET DETAIL
NOT TO SCALE



AUXILIARY HOME RUN CONDUIT SCHEDULE

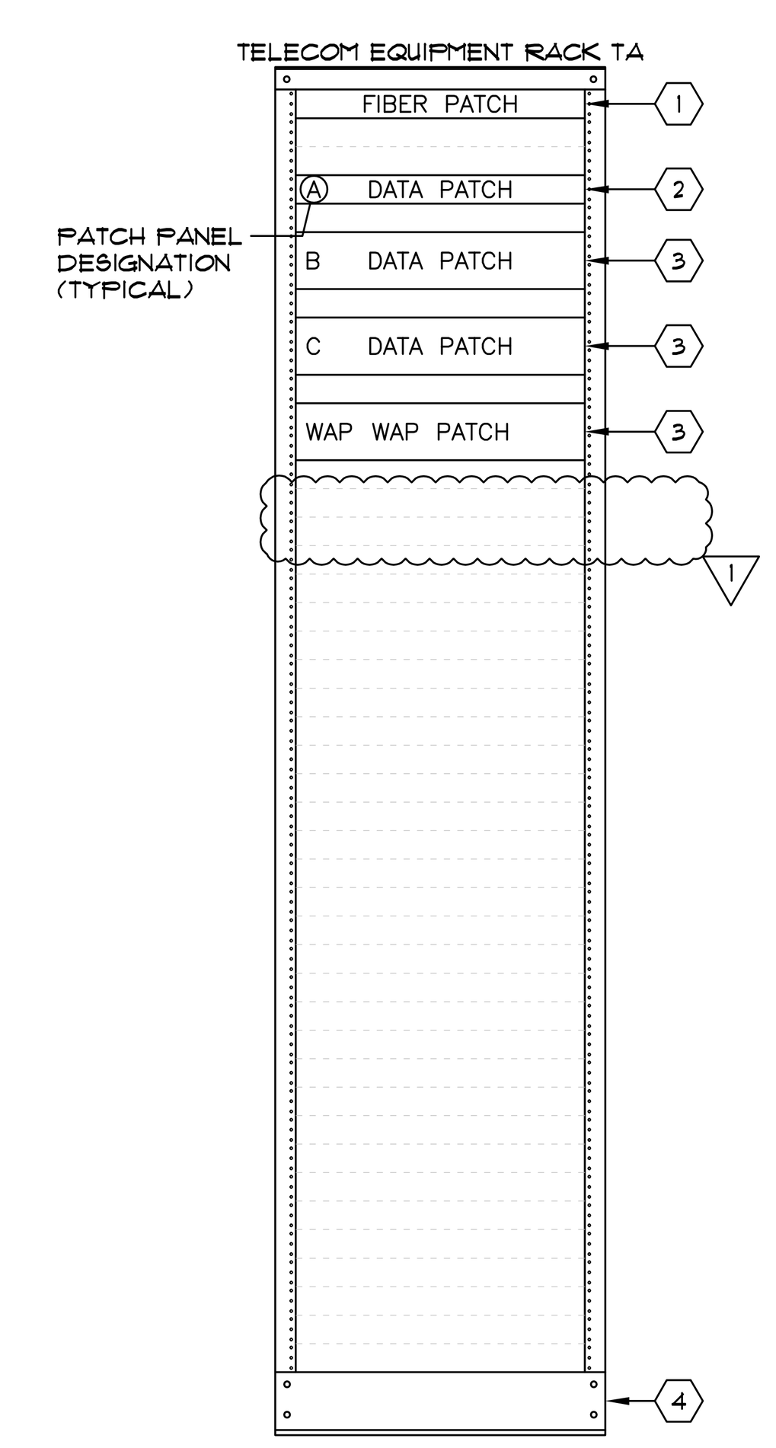
# OF OUTLETS SERVED	HR CONDUIT SIZE	J-BOX DIMENSIONS
1	1"	4 11/16" X 4 11/16" X 2 1/8"
2	1 1/4"	4 11/16" X 4 11/16" X 2 1/8"
3	1 1/2"	8" X 8" X 4"
4	2"	12" X 12" X 4"
5	2 1/2"	12" X 12" X 4"

3 AUXILIARY CONDUIT DETAIL
NO SCALE



NOTE: FOR HDMI CABLE LENGTHS GREATER THAN 30' UTILIZE CL3 ACTIVE HIGH SPEED HDMI CABLE, MONOPRICE LUXE SERIES OR APPROVED EQUAL, LENGTH AS REQUIRED.

4 CLASSROOM A/V WIRING DETAIL
NO SCALE



1. LEVITON #5RIUM-S03 RACK MOUNT FIBER ENCLOSURE, LEVITON #5F100-2LL ADAPTER PLATES AS REQUIRED, INSTALL LEVITON #5F100-PLT BLANK ADAPTER PLATES ON UNUSED PORTS.
2. LEVITON #49255-H24 24 PORT PATCH PANEL W/ LEVITON ATLAS X1 JACKS AS REQUIRED (JACK TYPE AND COLOR TO MATCH OUTLET SERVED).
3. LEVITON #49255-H48 48 PORT PATCH PANEL W/ LEVITON ATLAS X1 JACKS AS REQUIRED (JACK TYPE AND COLOR TO MATCH OUTLET SERVED).
4. HOFFMAN #EDR19FM45U 7' 2-POST OPEN FRAME EQUIPMENT RACK.

NOTES:
- VERIFY RACK EQUIPMENT LOCATIONS WITH OWNER PRIOR TO INSTALLATION
- TELECOM RACK ELEVATION IS FOR ILLUSTRATION PURPOSES ONLY, COMMUNICATIONS CONTRACTOR TO PROVIDE ACTUAL QUANTITIES OF RACK EQUIPMENT AS REQUIRED
- CONTRACTOR SHALL PROVIDE A 12" PATCH CORD FOR EACH PATCH PANEL TERMINATION, COLOR TO MATCH JACK COLOR.

5 TELECOM EQUIPMENT RACK 'TA' ELEVATION
NO SCALE

Smith, Stegall & associates p.c.
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Phone/Fax 205 345 4462

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SUMTER COUNTY BOARD OF EDUCATION
13878 US HIGHWAY 11, YORK, AL 36925

BID SET

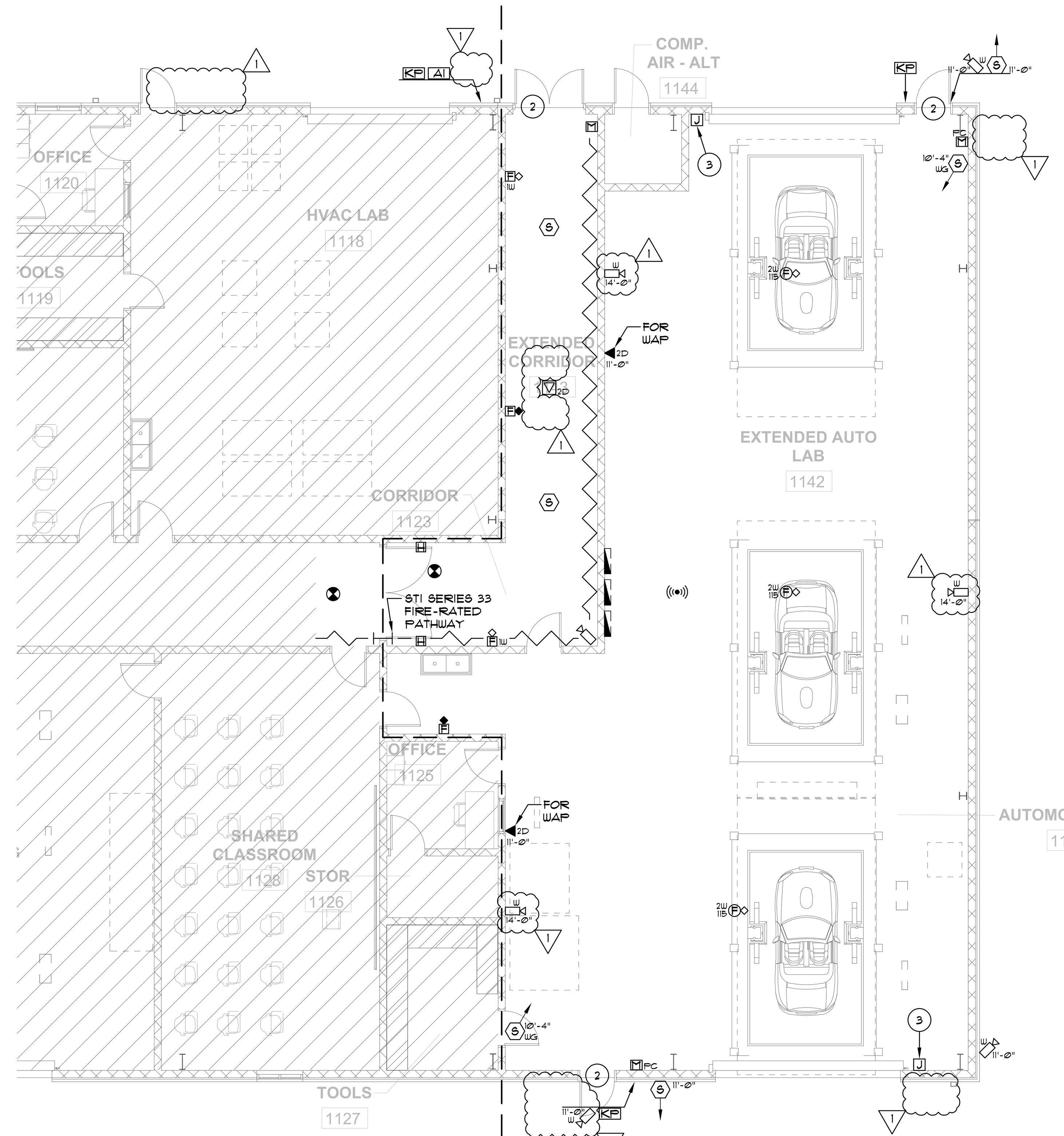
DATE: 05/06/26
PROJ NO: 25-135

REVISIONS

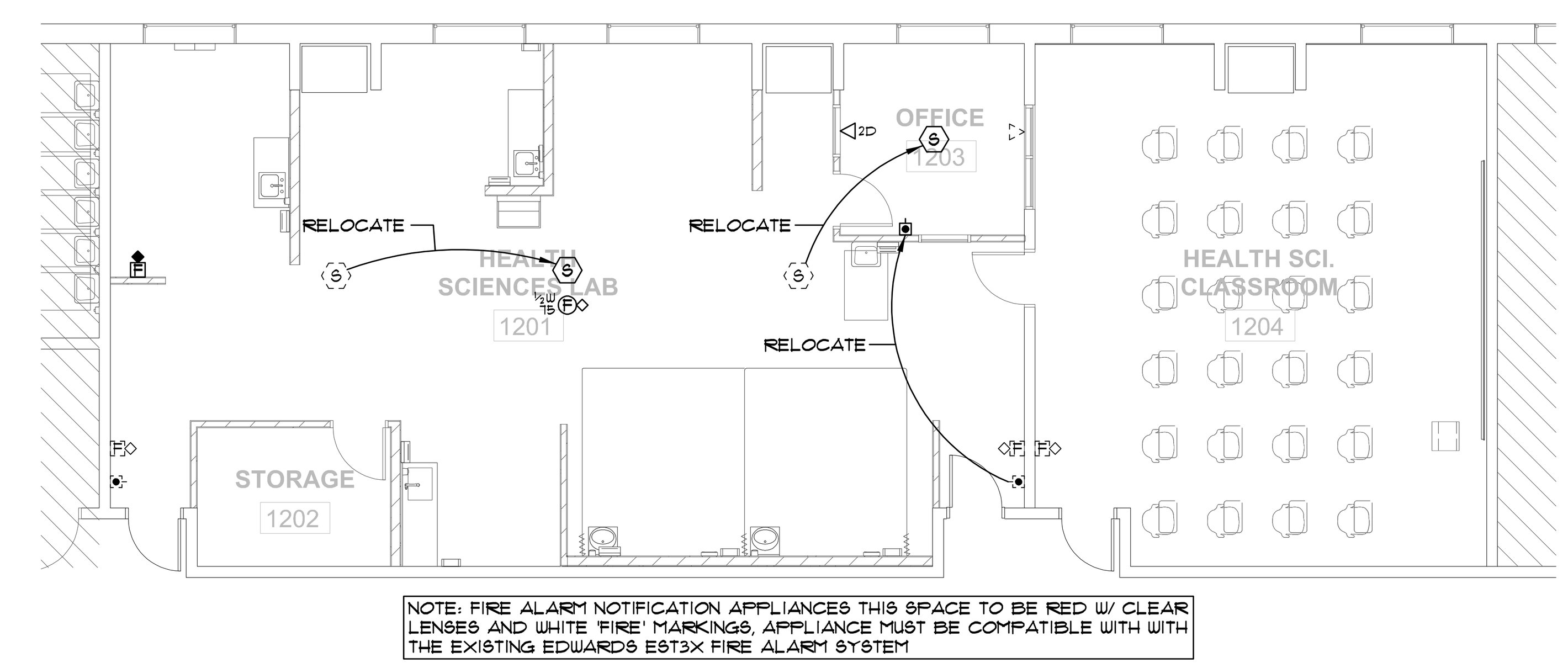
#	DESC	DATE
1	ADD #1	05/22/26

AUXILIARY SYMBOLS & DETAILS

E300



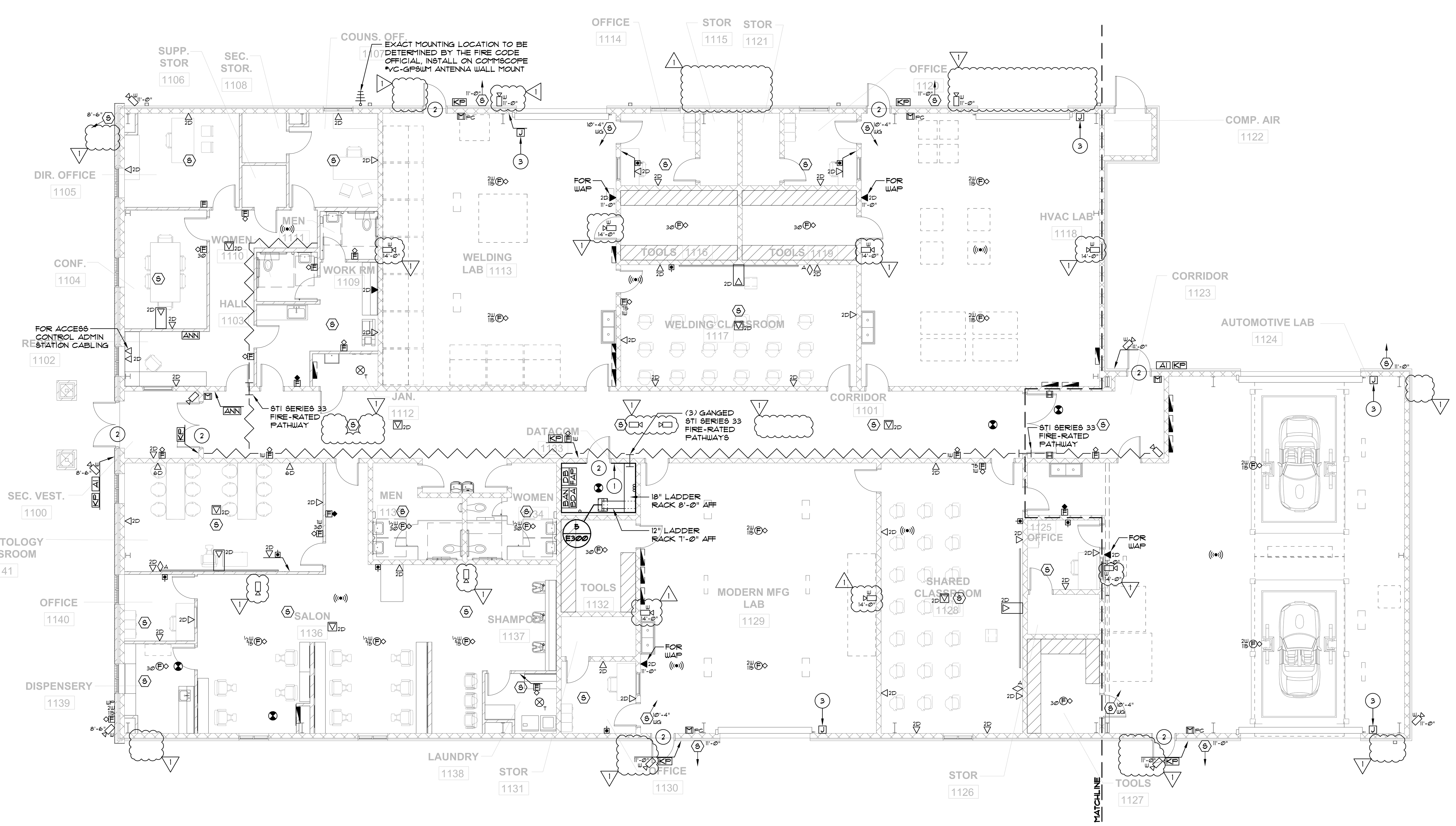
2 ALTERNATE AUXILIARY PLAN
1/8" = 1'-0"



3 HEALTH SCIENCE AUXILIARY PLAN
1/8" = 1'-0"

1. COMMUNICATION BACKBOARD: INSTALL ¾" VOID-FREE PLYWOOD UP TO 8'-0" ALONG ALL WALLS THIS ROOM, PLYWOOD SHEETS TO BE AC-GRADE MOUNTED VERTICALLY WITH THE 'A' SIDE FACING OUTWARD AND THE 'C' SIDE SECURELY FASTENED TO THE WALL, PLYWOOD SHEETS TO BE PAINTED WITH TWO (2) COATS OF LIGHT GRAY ENAMEL FIRE-RETARDANT PAINT ON BOTH SIDES AND EDGES
2. ACCESS CONTROL LOCATION, SEE 'ACCESS CONTROL DETAIL'
3. SINGLE GANG J-BOX, 6" AFF, VERTICAL MOUNT, FOR FUTURE SECURITY SYSTEM CONNECTION TO ROLL-UP DOOR CONTACT, ¾" CONDUIT TO WITHIN 6" OF NEAREST CABLE SUPPORT SYSTEM, BUSHING ON CONDUIT END, INSTALL BLANK STAINLESS STEEL FACEPLATE ON UNUSED OUTLET

REFERENCED NOTES



1 AUXILIARY PLAN
1/8" = 1'-0"

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REVISIONS

#	DESC	DATE
1	ADD #1	05/22/26

AUXILIARY PLAN

E301