

Addendum

02

Addendum Number

This Addendum is considered part of the Contract Documents and is incorporated integrally into them. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum takes precedence. Bidders are to acknowledge receipt of this Addendum on their Bid Form.

1. PROJECT MANUAL, SECTION 00 2113 – INSTRUCTIONS TO BIDDERS: For clarification, a Bid Guarantee "Bid Bond" is required for this project. Please refer to PART 7 – BID GUARANTEE, Paragraph 7.1 and Subparagraph A is changed to the following:

"Bids shall be accompanied by a Bid Guarantee which shall be a bid bond, cashier's check or certified check in the amount of five percent (5%) of the base bid made payable to the Owner. Such Bid Guarantee shall be submitted with the understanding that it shall guarantee the bidder will not withdraw their bid for a period of thirty calendar days after the scheduled closing time for the receipt of bid and that, if the bid is accepted, bidder will enter into a construction contract with the Owner and the required bonds will be submitted within the time set forth below; and that in the event of the withdrawal of the bid within the thirty calendar day period, or failure to enter into contract and submit all the required bonds and insurance certificates within ten calendar days after receipt of the Owner/Contractor Contract the bidder shall be liable to the Owner for the full amount of the Bid Guarantee as representing the damage to the Owner on account of the default of the bidder. The checks or bid bonds shall be returned to all bidders, except the three lowest bidders until after the Owner and the accepted bidder have executed the contract and bonds have been approved by the Owner. If the required contract and bonds have not been executed within thirty calendar days after the bid date, then the check or bid bond of any bidder will be returned upon request, provided they have not been notified of the acceptance of their bid."

- 2. PROJECT MANUAL, SECTION 01 3000 ADMINISTRATIVE REQUIREMENTS: Refer to the Davis-Bacon Act Requirements attached at the end of Section 01 3000. For clarification, the attachment lists certain trades but not all, and if a trade is not specifically listed then the contractor is to use the most similar trade and wage of those that are listed. Also for clarification, Davis-Bacon wages are required to be certified payroll.
- 3. PROJECT MANUAL, SECTION 05 5202 ALUMINUM HANDRAILS AND RAILINGS: For clarification, this Section is for the stair railings.



- 4. PROJECT MANUAL, SECTION 07 1100 DAMPPROOFING AND SECTION 07 2726 FLUID APPLIED MEMBRANE AIR BARRIERS: For clarification, dampproofing is to be applied to all exterior surfaces of CMU below grade and fluid applied membrane air barriers are to be applied behind the Metal Walls specified in Section 07 4213 and the Composite Wall Panels specified in Section 07 4243.
- **5. PROJECT MANUAL, SECTION 08 1113 HOLLOW METAL DOORS AND FRAMES:** Doors and frames manufactured by Daybar are an acceptable substitution.
- **6. PROJECT MANUAL, SECTION 08 1416 FLUSH WOOD DOORS:** Doors manufactured by Five Lakes Manufacturing are an acceptable substitution.
- 7. PROJECT MANUAL, SECTION 08 7100 DOOR HARDWARE: For clarification, the manufacturers listed in the Hardware Sets are to be provided and installed with no substitutions allowed.
- 8. PROJECT MANUAL, SECTION 09 6723 RESINOUS FLOORING:
 - 1. Refer to the attached reissued Section.
 - 2. For clarification, the wall base is to be 4" high.
 - 3. Resinous flooring manufactured by Plexi-Chemie, Neogard, Sikafloor and Sherwin-Williams are acceptable substitutions.
- PROJECT MANUAL, SECTION 09 9000 PAINTING AND COATING: Refer to Paragraph 2.3 and Subparagraph J. Stonclear CS100, Stonkote CE4 and Stonseal SK6 are each acceptable products for sealed concrete flooring.
- **10. PROJECT MANUAL, SECTION 12 4920 MANUAL ROLLER SHADES:** For clarification, the manual roller shade locations are indicated on Drawing Sheets A-1 and A-1A.
- 11. PROJECT MANUAL GENERAL:
 - 1. For clarification, the fire extinguisher cabinets are specified in Section 10 0000.
 - 2. For clarification, the white boards are specified in Section 10 0000.
 - 3. For clarification, the corner guards are specified in Section 10 0000. The corner guard locations are shown on Drawings A-1 and A-1A.
 - 4. For clarification, the metal storage shelving is specified in Section 10 0000.
- 12. <u>DRAWINGS, SHEET C5.0 PAVING, GRADING AND DRAINAGE PLAN:</u> For clarification, the removal or replacement of wheel stops shall be by the Owner. In addition, all new striping shall be by the Owner. These items are not to be included in the contractor's bid.
- 13. DRAWINGS, CIVIL GENERAL: For clarification, there is no landscaping plan.
- **14. DRAWINGS, SHEET A-1 FIRST FLOOR FLOOR PLAN:** Refer to the Interior Elevation tag at Door 117 and revise the tag to 3/A-9B.
- 15. DRAWINGS, SHEET A-1 FIRST FLOOR FLOOR PLAN AND A-1A SECOND FLOOR FLOOR PLAN: For clarification, the elevator door frame is to be installed directly to the CMU and be coordinated between the supplied elevator and the masonry subcontractor.
- **16. DRAWINGS, SHEET A-1A SECOND FLOOR FLOOR PLAN:** For clarification, all non-fire-rated framed walls and all fire-rated framed walls are to extend to the underside of the roof deck. Also, all framed walls located on top of CMU walls are to extend to the underside of the roof deck.



- 17. DRAWINGS, SHEET A-5 EXTERIOR ELEVATIONS: For clarification, the vertical aluminum siding specified in Section 07 4213 and the vertical composite wall panels specified in Section 07 4243 are to be complete systems and during the construction submittal phase, the manufactured is to provide their shop drawings showing their systems, joints, openings, transitions and details to suit the conditions required specifically for this project for review.
- 18. DRAWINGS, SHEET A-8 FIRST FLOOR REFLETED CEILING PLAN AND A-8A SECOND FLOOR REFLECTED CEILING PLAN: Refer to Women 105, Men 106, Women 204 and Men 205. The ceilings of these rooms shall be impervious with an epoxy finish coating on a 5/8" solid moisture resistant gypsum board over metal stud horizontal framing at 24" on center. The metal stud framing gauge and depth shall be as required as a delegated design provided by the metal stud subcontractor. The finish ceiling height shall be 9'-0" throughout each room. One 24" x 24" ceiling access panel shall be provide at each room with final location to be determined on site during construction during the metal stud horizontal framing install.
- **19. DRAWINGS, SHEET A-9 ENLARGED PLAND AND INTERIOR ELEVATIONS:** For clarification, wall tile at the restrooms is to be installed per the Finish Diagrams in Section 09 1000 of the Project Manual.
- 20. DRAWINGS, SHEET S-5 SECOND FLOOR PLAN: For clarification, a pre-bid RFI asked: "Please clarify what the [6,3,6] and [8,3,8] for the W18x35 and W21x24 around 3E/3H and 4B." and the response is: "The numbers in brackets are the shear stud counts on that girder span. That is the number of studs in each 'bay' between cross beams, i.e. the studs are not uniformly spaced along the girder. Also, see 1/S-16 for further details and definitions and specifically note #3."
- 21. <u>DRAWINGS, SHEET S-11 ELEVATOR FRAMING SECTIONS AND DETAILS:</u> For clarification, a prebid RFI asked: "What is the depth of the elevator pit? Detail 1/S-11 says to see plan, but the foundation plan doesn't specify." and the response is: "Elevator pit is assumed to be 4'-0" deep but shall be verified with actual elevator supplied."
- **22. DRAWINGS, SHEET S-15 FLOOR SECTIONS AND DETAILS:** For clarification, a pre-bid RFI asked: "Detail 1/S-15 calls for a 10' #4 centered over the steel beams at 12" o.c. On S-5 this detail is shown over a beam that runs north and south and a beam that runs east and west. Is this typical over all steel beams?" and the response is: "The added bars go only over the girders."
- 23. <u>DRAWINGS, SHEET M302 HVAC DETAILS:</u> Refer to the attached reissued Sheet. AHU connection detail added to Drawing.
- 24. DRAWINGS, MECHANICAL GENERAL: For clarification, a pre-bid RFI asked: "We need to know what underground system they are wanting, whether it be a carbon steel pipe in a HDPE jacket with foam around it? How deep the pipe needs to be? What pressure test needs to be done after completion?" and the response is: "Refer to specification Section 23 2113 Hydronic Piping for HVAC piping and pressure requirements. Site piping needs to be installed a minimum of 3'-0" below finished grade. It is acceptable to match the pipe material of the existing chilled water main and provide with an HDPE jacket."
- 25. <u>DRAWINGS, MECHANICAL GENERAL:</u> For clarification, a pre-bid RFI asked: "How long do we need to flush for and what's the water spec need to be?" and the response is: "Refer to specification Section 23 2113 Hydronic Piping 3.8 Chemical Treatment for flushing requirements."
- **26. DRAWINGS, SHEET E101 ELECTRICAL SITE PLAN:** Refer to the attached reissued Sheets. Generator pad dimensions were changed and the reference to "diesel" generator was replaced with "natural gas".
- 27. DRAWINGS, SHEET E201 LIGHTING PLAN FIRST FLOOR, E202 LIGHTING PLAN SECOND FLOOR, E211 POWER AND SYSTEMS PLAN FIRST FLOOR AND E212 POWER AND SYSTEMS PLAN SECOND FLOOR: Refer to the attached reissued Sheets. Added notes regarding location of boxes with respect to hard ceiling. Added some circuiting arcs which did not plot on original Drawings.



- 28. <u>DRAWINGS, SHEET E211 POWER AND SYSTEMS PLAN FIRST FLOOR:</u> Refer to the attached reissued Sheet. Electric strike from door to room #112 was added to plan.
- 29. DRAWINGS, SHEET E211 POWER AND SYSTEMS PLAN FIRST FLOOR: For clarification, a pre-bid RFI asked: "The simulation rooms on the first floor show cameras, but there is no specification or description of this system. Please advise on what is to be included?" and the response is: "See keynote 9 on E211, and notes T11 and T15 on E701. The contractor is responsible for the back boxes at each camera location and cables from the camera locations back to the I.T. room. The cameras will Owner-Furnished and Owner-Installed.
- 30. DRAWINGS, SHEET E211 POWER AND SYSTEMS PLAN FIRST FLOOR AND E212 POWER AND SYSTEMS PLAN SECOND FLOOR: Refer to the attached reissued Sheets. Security camera locations were added to plans. Contractor shall provide rough-in and CAT6 POE (power over Ethernet) cable for each location; camera will be provided by the Owner's security vendor.
- **31. DRAWINGS, SHEET E401 LIGHTING SCHEDULE AND DETAILS:** Refer to the attached reissued Sheet. Added note to fixture schedule regarding provisions of flange kits as required for hard ceilings.
- **32. DRAWINGS, SHEET E701 SYSTEMS RISER AND DETAILS:** Refer to the attached reissued Sheet. PACS details and telecom riser diagram were revised, to clarify general contractor versus security vendor scope.
- 33. GENERAL SECURITY ACCESS CONTROL CLARIFICATION: For clarification.

The winning contractor (GC), as part of this project, shall provide:

- Conduit and back box rough-ins for the PACS (physical access control system) components.
- 120V homeruns for control panel and door operator locations as required.
- Fire Alarm output relay as first floor PACS control panel for interconnection with fire alarm system.
- CAT6 cables to PACS control panel locations for interconnection to network.
- Empty wall space in I.T. rooms for PACS control panels.
- Coordination with the Owner-Supplied security vendor during construction.
- All door hardware including: doors, locks, auto-door operators, latches, electric strikes, panic bars, etc.

The Owner will contract separately with a security vendor. The Owner's Owner-Supplied security vendor will:

- Provide specific rough-in details to GC.
- Furnish and install PACS control panels, PACS system cables from control panels to doors, PACS power supplies, door position switches, request to exit sensors and card readers.
- Provide PACS programming and integration into the campus-wide system.
- Coordinate with GC's team during construction.

END OF ADDENDUM 02

ATTACHMENTS INCLUDE REISSUED SECTION 09 6723 AND REISSUED SHEETS M302, E101, E201, E202, E211, E212, E401 AND E701

SECTION 09 6723

RESINOUS FLOORING

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

- A. Refer to the Division 00 and 01 Sections of these specifications.
- B. Coordinate with Section 09 1000 Finish Schedule and Finish Diagrams for locations.

1.2 SUMMARY

- A. This Section includes one resinous flooring system, one with epoxy body.
 - 1. Application Method (RES-1): Squeegee, screed and broadcast.
 - 2. Application Method (RES-2): Flat Metal, power or hand troweled.

1.3 SUBMITTALS

- A. Product Data: Include manufacturer's technical data, application instructions and recommendations.
- B. Samples for Verification: 6 inches square, applied to a rigid backing.
- C. Product Schedule: Use resinous flooring designations indicated in Part 2 and room designations indicated in Section 09 1000.
- D. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.
- E. Maintenance Data: For resinous flooring to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Equivalent materials of other manufactures may be substituted for consideration prior to the Bid Date.
- B. Installer Qualifications: Engage an experienced installer experienced in applying resinous flooring systems similar in material, design and extent, whose work has resulted in applications with a record of successful in-service performance and who is acceptable to resinous flooring manufacturer.
 - 1. Engage an installer who is certified by resinous flooring manufacturer as qualified to apply resinous flooring systems.
- C. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats and topcoats, through one source from a single manufacturer. Provide secondary materials, including patching and fill material, joint sealant and repair materials, of type and from source recommended by manufacturer of primary materials.
- D. Manufacturer Field Technical Service Representatives: Resinous flooring manufacture is to retain the services of Field Technical Service Representatives who are trained on installing the system to be used.
 - 1. Field Technical Services Representatives are to be employed by the system manufacture to assist in the quality assurance and quality control process of the installation and be available to perform field problem solving issues with the installer.



- E. Mockups: Apply mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Apply full-thickness mockups on 48-inch square floor area.
 - a. Include 48-inch length of integral cove base.
 - 2. Approved mockups may become part of the completed work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.
- B. Store materials to prevent deterioration from moisture, heat, cold, direct sunlight or other detrimental effects.
- C. Materials used are to be factory pre-weighed and pre-packaged in single, easy to manage batches to eliminate on site mixing errors. No on site weighing or volumetric measurements allowed.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Comply with resinous flooring manufacturer's instructions for substrate temperature, ambient temperature, moisture, ventilation and other conditions affecting resinous flooring application.
 - 1. Maintain material and substrate temperature between 65 and 85 deg F during resinous flooring application and for not less than 24 hours after application.
- B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.
- C. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application, unless manufacturer recommends a longer period.
- D. Concrete substrate to be properly cured for a minimum of 30 days. A vapor barrier must be present for concrete subfloors on grade.

1.7 WARRANTY

A. Manufacturer is to furnish a warranty covering both material and workmanship for a period of one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 RESINOUS FLOORING (RES-1)

- A. Available Products: Subject to compliance with requirements.
 - 1. Confirm inclusion of 25mil body coat and broadcast quartz into primer increasing bond strength.
- B. Products: Subject to compliance with requirements:
 - 1. Stonhard, Inc.; Stontec ERF®. Basis of Design.
- C. System Characteristics:
 - 1. Color and Pattern: Select from manufactures standards
 - 2. Wearing Surface: Standard
 - 3. Integral Cove Base



- 4. Overall System Thickness: 2mm
- D. System Components: Manufacturer's standard components that are compatible with each other and as follows:
 - 1. Primer:
 - a. Material Basis: Stonhard Standard Primer.
 - b. Resin: Epoxy.
 - c. Formulation Description: Two component 100 percent solids.
 - d. Application Method: Squeegee and roller.
 - e. Number of Coats: One.
 - f. Aggregates: Broadcast quartz into wet primer coat.
 - Body Coat(s):
 - Material Basis: Stonshield Undercoat.
 - b. Resin: Epoxy.
 - c. Formulation Description: Three component solvent free epoxy.
 - d. Application Method: Notched squeegee.
 - 1). Thickness of Coats: 25-30 mils with standard primer coat.
 - 2). Number of Coats: One.
 - 3. Broadcast:
 - Material Basis: Stontec Flakes.
 - b. Formulation Description: Decorative flake.
 - c. Type: Tweed (chips to be mixed in Mfg. facility).
 - d. Finish: Broadcast to rejection.
 - e. Number of Coats: One.
 - 4. Topcoat:
 - a. Material Basis: CE4.
 - b. Resin: Epoxy.
 - c. Formulation Description: Two component, UV stable, solvent free epoxy.
 - d. Type: Clear.
 - e. Finish: Gloss.
 - f. Number of Coats: Two.
- 2.2 RESINOUS FLOORING (RES-2)
 - A. Available Products: Subject to compliance with requirements:
 - B. Acceptable Manufactures,
 - 1. Stonhard Basis of design.
 - C. Products: Subject to compliance with requirements:
 - 1. Stonhard, Inc.; Stonclad GS®. With top coat Stonkote GS4 and Stonseal SK6.
 - D. System Characteristics:
 - 1. Color and Pattern: Choose from Mfg. Standards.
 - 2. Wearing Surface: Standard smooth.
 - 3. Integral Cove Base.
 - 4. Overall System Thickness: nominal 1/4".
 - E. System Components: Manufacturer's standard components that are compatible with each other and as follows:



Primer:

- Material Basis: Stonhard Standard Primer. a.
- b. Resin: Epoxy.
- Formulation Description: Two component, 100 percent solids. C.
- Application Method: Squeegee and roller. d.
- Number of Coats: One. е

Mortar Base:

- Material design basis: Stonclad GS. a.
- b. Resin: Epoxy.
- c. Formulation Description: Three component, 100 percent solids.
- d. Application Method: Metal Trowel.
 - 1). Thickness of Coats: nominal 1/4 inch.
 - 2). Number of Coats: One.
- Aggregates: Pigmented Blended aggregate.
- 3. Top Coat:
 - a. Material design basis: Stonkote GS4.
 - b. Resin: Epoxy.
 - c. Formulation Description: Two component 100 percent solids.
 - Type: Pigmented. d.
 - Finish: Standard. e.
 - f. Number of Coats: One.
- Sealer Coat:
 - Material basis: Stonseal SK6. а
 - b. Resin: Urethane.
 - c. Style: Clear.
 - d. Number of coats: One.

2.3 ACCESSORY MATERIALS

- A. Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated. No Single component or cementitious materials.
- B. Joint Sealant: Type recommended or produced by resinous flooring manufacturer for type of service and joint conditions.

PART 3 - EXECUTION

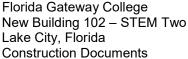
3.1 PREPARATION

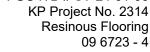
- A. General: Prepare and clean substrates according to resinous flooring manufacturer's instructions. Provide clean, dry and neutral Ph substrate for resinous flooring application.
- B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil and other contaminants incompatible with resinous flooring.

ARCHITECTURE & INTERIORS

- 1. Mechanically prepare substrates as follows:
 - Mechanically prepare with the use of Diamond grinding equipment to provide surface sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil and other contaminants incompatible with resinous flooring. Or,







- b. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus and recirculates the shot by vacuum pickup.
- Comply with ASTM C 811 requirements, unless manufacturer's instructions are more stringent.
- 2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's recommendations.
- 3. Verify that concrete substrates are dry.
 - a. Perform in situ probe test, ASTM F 2170. Proceed with application only after substrates do not exceed a maximum potential equilibrium relative humidity of 80 percent.
 - b. For applying impermeable resinous flooring systems, 3 lb of water/1000 sq. ft. of slab in 24 hours is generally considered a safe moisture-vapor-emission rate. Consult manufacturers for appropriate rates for permeable systems that will allow moisture vapor to continue through them once cured.
 - c. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. of slab in 24 hours.
 - d. Perform additional moisture tests recommended by manufacturer. Proceed with application only after substrates pass testing.
- 4. Verify that concrete substrates have neutral Ph and that resinous flooring will adhere to them. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
- C. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's instructions.
- D. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's instructions.
- E. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's recommendations. Stonflex MP7 joint fill material.

3.2 APPLICATION (RES-1)

- A. General: Apply components of resinous flooring system according to manufacturer's instructions to produce a uniform, monolithic wearing surface.
 - 1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate and optimum intercoat adhesion.
 - 2. Cure resinous flooring components according to manufacturer's instructions. Prevent contamination during application and curing processes.
 - 3. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's recommendations.
 - a. Apply joint sealant to comply with manufacturer's recommendations.
- B. Mix and apply primer over properly prepared substrate with adherence to manufacturer's installation procedures and coverage rates.
- C. Broadcast: Immediately broadcast quartz silica aggregate into the primer using manufacturer's specially designed spray caster. Adherence to manufacturer's installation procedures and coverage rates is imperative.
- D. Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's instructions and details including those for taping, mixing, priming, troweling, sanding and top coating of cove base. Round internal and external corners.



- E. Body Coat: Mix base material according to manufacturer's recommended procedures. Uniformly spread mixed material over previously primed substrate using manufacturer's installation tool. Roll material with adherence to manufacturer's installation procedures and coverage rates.
- F. Broadcast: Immediately broadcast decorative flakes into the body coat. Adherence to manufacturer's installation procedures and coverage rates is imperative.
- G. First Sealer: Remove excess un-bonded flakes by lightly brushing and vacuuming the floor surface. Mix and apply sealer with adherence to manufacturer's installation procedures.
- H. Second Sealer: Lightly sand first sealer coat. Mix and apply second sealer coat with adherence to manufacturer's installation procedures.

3.3 APPLICATION (RES-2)

- A. General: Apply components of resinous flooring system according to manufacturer's instructions to produce a uniform, monolithic wearing surface.
 - 1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate and optimum intercoat adhesion.
 - 2. Cure resinous flooring components according to manufacturer's instructions. Prevent contamination during application and curing processes.
 - 3. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's recommendations.
 - a. Apply joint sealant to comply with manufacturer's recommendations.
- B. Apply primer where required by resinous system over prepared substrate at manufacturer's recommended spreading rate.
- C. Integral Cove Base: Stonclad GS mortar, apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's instructions and details including those for taping, mixing, priming, troweling and sanding of cove base. Round internal and external corners.
 - 1. Integral Cove Base.
- D. Apply metal trowel single mortar coat in thickness required for flooring system. Hand or power trowel and grout to fill voids. When cured, sand to remove trowel marks and roughness.
- E. Apply topcoat(s) in number of coats required for flooring system and at spreading rates recommended by manufacturer.

3.4 TERMINATIONS

- A. Chase edges to "lock" the coating system into the concrete substrate along lines of termination.
- B. Penetration Treatment: Lap and seal coating onto the perimeter of the penetrating item by bridging over compatible elastomer at the interface to compensate for possible movement.
- C. Trenches: Continue coating system into trenches to maintain monolithic protection. Treat cold joints to assure bridging of potential cracks.
- D. Treat floor drains by chasing the coating to lock in place at point of termination.

3.5 JOINTS AND CRACKS

- A. Treat control joints to bridge potential cracks and to maintain monolithic protection.
- B. Treat cold joints and construction joints to bridge potential cracks and to maintain monolithic protection on horizontal and vertical surfaces as well as horizontal and vertical interfaces.



C. Discontinue floor coating system at vertical and horizontal contraction and expansion joints by installing backer rod and compatible sealant after coating installation is completed. Provide sealant type recommended by manufacturer for traffic conditions and chemical exposures to be encountered.

3.6 FIELD QUALITY CONTROL

- A. Material Sampling: Owner may at any time and any numbers of times during resinous flooring application require material samples for testing for compliance with requirements.
 - 1. Owner will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed and certified in presence of contractor.
 - 2. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
 - 3. If test results show applied materials do not comply with specified requirements, the contractor is to pay for testing, remove noncomplying materials, prepare surfaces coated with unacceptable materials and reapply flooring materials to comply with requirements.

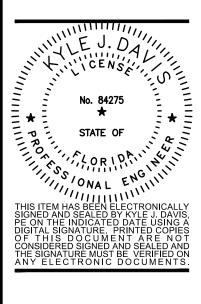
3.7 CLEANING, PROTECTING, AND CURING

- A. Cure resinous flooring materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing process. Close area of application for a minimum of 18 hours.
- B. Protect resinous flooring materials from damage and wear during construction operation. Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protective materials and method of application. Contractor is responsible for protection and cleaning of surfaces after final coats.
- C. Cleaning: Remove temporary covering and clean resinous flooring just prior to final inspection. Use cleaning materials and procedures recommended by resinous flooring manufacturer.

END OF SECTION







05/14/2024 ADD#02 # Date

DETAILS

DATE 3/25/2024

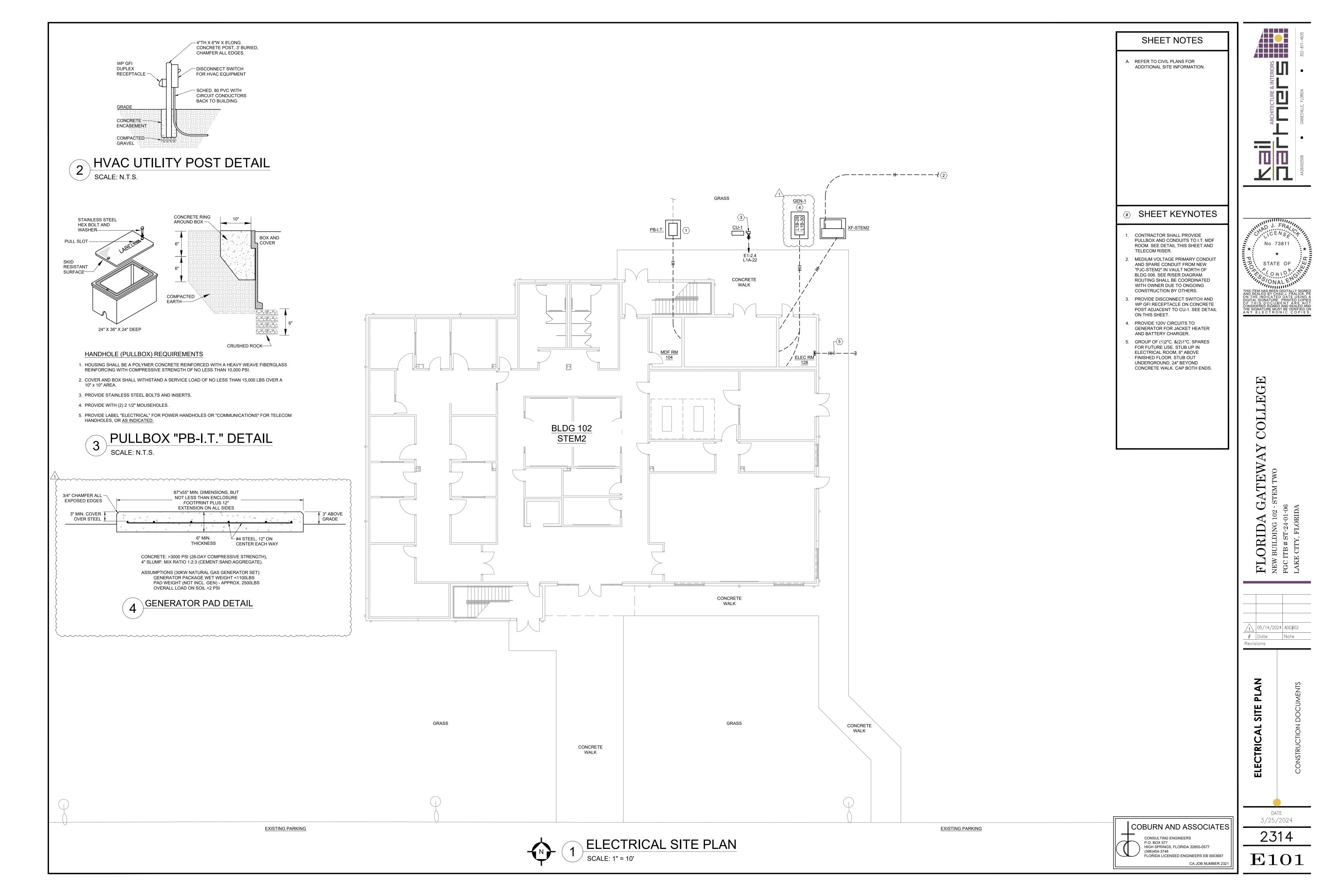
COBURN AND ASSOCIATES

CONSULTING ENGINEERS
P.O. BOX 577
HIGH SPRINGS, FLORIDA 32655-0577
(386)454-3748
FLORIDA LICENSED ENGINEERS EB 0003687

CA JOB NUMBER 2321

2314

M302



CA PROJ NO: 2321 PLOTTED: 5/14/2024 9:23 AM



- A. TYPE X, Y, AND Z FIXTURES, AND FIXTURES NOTED AS 'NL' SHALL BE CONNECTED TO NON-SWITCHED CIRCUIT CONDUCTOR DIRECTLY FROM THE BREAKER. PROVIDE ADDITIONAL NON-SWITCHED CONDUCTOR IN
- LIGHTING RUN FOR THIS PURPOSE. B. SEE LIGHTING CONTROL DETAILS FOR ADDITIONAL COMPONENTS NOT DEPICTED ON PLANS, SUCH AS
- POWER PACKS, ROOM CONTROLLERS, AND INTERCONNECTIONS BETWEEN C. LOW VOLTAGE CONDUCTORS FOR LOW VOLTAGE MOMENTARY AND
- DIGITAL SWITCHES SHALL BE INSTALLED IN CONDUIT FROM SWITCH TO STUB-OUT ABOUT CEILING. . JUNCTION BOXES AND CONDUIT
- FITTINGS SHALL NOT BE RENDERED INACCESSIBLE BY HARD CEILING. ACCORDINGLY.

CONTRACTOR SHALL PLAN ROUTINGS



- MANUAL-ONLY LIGHTING CONTROL FOR SAFETY, TO COMPLY WITH NEC 110.26(D), OR OTHERWISE EXEMPT FROM AUTOMATIC CONTROL.
- UNDER CABINET LIGHTING, CONTINUOUS ROW, LENGTH AS NOTED. COORDINATE WITH CASEWORK.
- . FIELD-COORDINATE MECHANICAL ROOM LIGHTING FIXTURE LOCATIONS WITH EQUIPMENT, PIPING, AND DUCTWORK.

4. SEE E202 FOR CIRCUIT CONTINUATION.

No 73811 STATE OF THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CHAD J. FRALICK, PE ON THE INDICATED DATE USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

1 05/14/2024 ADD#02

LIGHTING

DATE 3/25/2024

2314

CONSULTING ENGINEERS
P.O. BOX 577
HIGH SPRINGS, FLORIDA 32655-0577
(386)454-3748
FLORIDA LICENSED ENGINEERS EB 0003687 E201 CA JOB NUMBER 2321

COBURN AND ASSOCIATES

- A. TYPE X, Y, AND Z FIXTURES, AND FIXTURES NOTED AS 'NL' SHALL BE CONNECTED TO NON-SWITCHED CIRCUIT CONDUCTOR DIRECTLY FROM THE BREAKER. PROVIDE ADDITIONAL NON-SWITCHED CONDUCTOR IN
- LIGHTING RUN FOR THIS PURPOSE.

 B. SEE LIGHTING CONTROL DETAILS FOR ADDITIONAL COMPONENTS NOT DEPICTED ON PLANS, SUCH AS POWER PACKS, ROOM CONTROLLERS, AND INTERCONNECTIONS RETWEEN
- AND INTERCONNECTIONS BETWEEN DEVICES.

 C. LOW VOLTAGE CONDUCTORS FOR LOW VOLTAGE MOMENTARY AND DIGITAL SWITCHES SHALL BE INSTALLED IN CONDUIT FROM SWITCH
- TO STUB-OUT ABOUT CEILING.

 D. JUNCTION BOXES AND CONDUIT
 FITTINGS SHALL NOT BE RENDERED
 INACCESSIBLE BY HARD CEILING.
 CONTRACTOR SHALL PLAN ROUTINGS
 ACCORDINGLY.

SHEET KEYNOTES

 MANUAL-ONLY LIGHTING CONTROL FOR SAFETY, TO COMPLY WITH NEC 110.26(D), OR OTHERWISE EXEMPT FROM AUTOMATIC CONTROL.
 UNDER CABINET LIGHTING, CONTINUOUS ROW, LENGTH AS

NOTED. COORDINATE WITH

- CASEWORK.

 FIELD-COORDINATE MECHANICAL
 ROOM LIGHTING FIXTURE LOCATIONS
 WITH EQUIPMENT, PIPING, AND
- DUCTWORK.

 4. CONTINUE CIRCUIT FROM FLOOR
 BELOW. SEE E201.
- 5. WALL MOUNTED 8' ABOVE LANDING.





RIDA GATEWAY COLLEG

D FLOOR

LIGHTING

COBURN AND ASSOCIATES

CONSULTING ENGINEERS
P.O. BOX 577
HIGH SPRINGS, FLORIDA 32655-0577
(386)454-3748
FLORIDA LICENSED ENGINEERS EB 0003687

CA JOB NUMBER 2321

CONSTRUCTION DOC

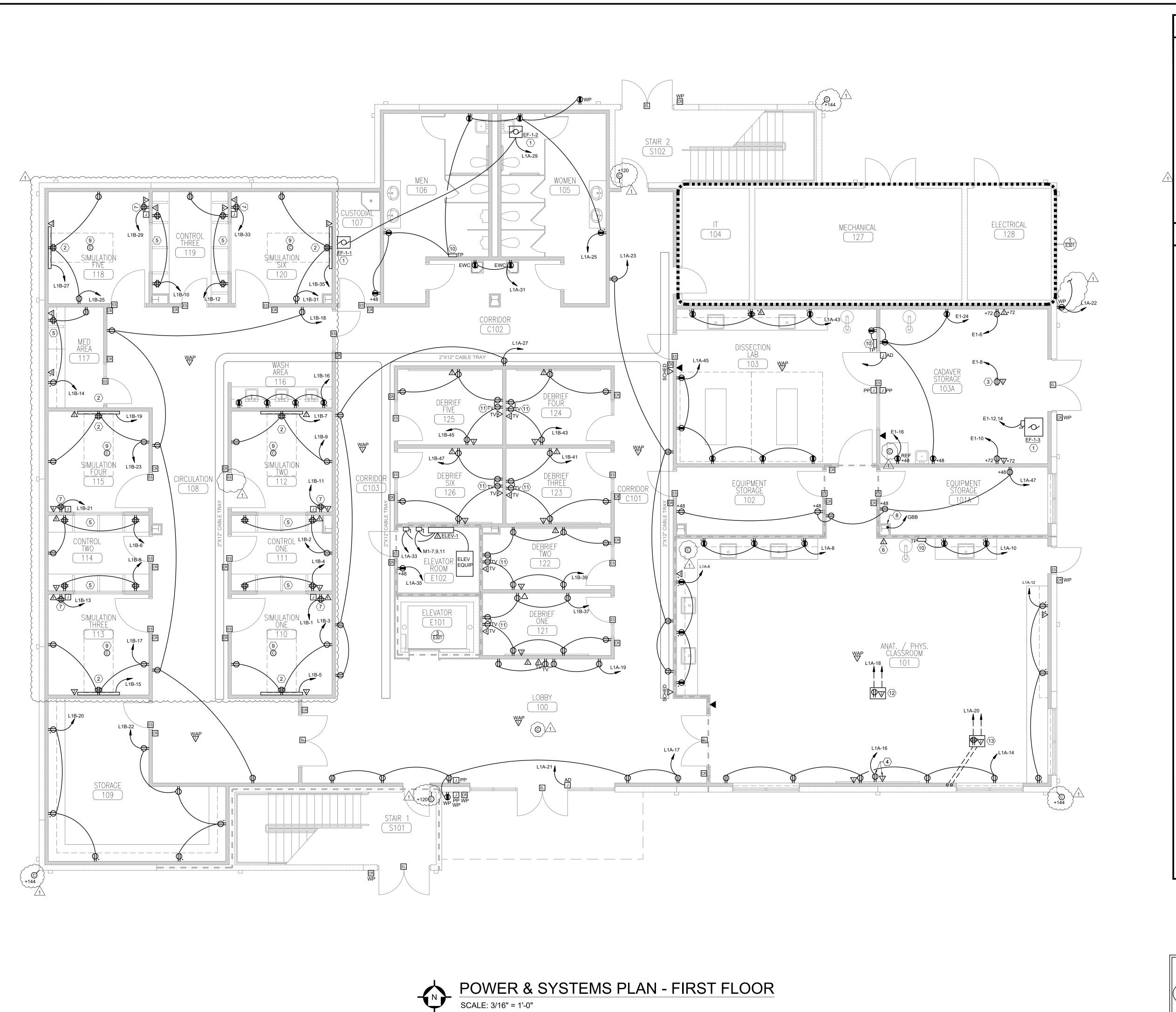
DATE 3/25/2024

2314

E202

LIGHTING PLAN - SECOND FLOOR

SCALE: 3/16" = 1'-0"



SHEET NOTES

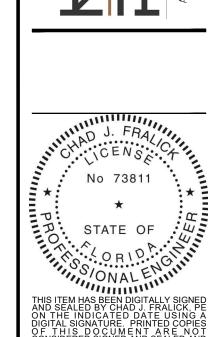
- A. REFER TO MECHANICAL DRAWINGS FOR LOW VOLTAGE POWER TO VAV
- BOXES. B. WAP LOCATIONS SHALL BE
- FIELD-COORDINATED WITH OWNER'S I.T. DEPARTMENT. C. CABLE TRAY INSTALLATION SHALL BE
- CLOSELY COORDINATED WITH DUCTWORK INSTALLATION. D. NO SHARED NEUTRALS.
- E. CONTRACTOR SHALL COORDINATE WITH OWNER'S LOW VOLTAGE VENDOR TO PROVIDE CABLING AND ROUGH-INS AS REQUIRED FOR INTERIOR AND EXTERIOR SECURITY
- JUNCTION BOXES AND CONDUIT FITTINGS SHALL NOT BE RENDERED INACCESSIBLE BY HARD CEILING. CONTRACTOR SHALL PLAN ROUTINGS

ACCORDINGLY.

SHEET KEYNOTES

- 1. EXHAUST FAN LOCATED ABOVE
- CEILING.
- 2. TYPICAL SIMULATION ROOM PATIENT HEADWALL; SEE DETAIL.
- 3. CEILING RECEPTACLE AND DROP CORD FOR CADAVER COOLER. SEE DETAIL. ALSO PROVE CEILING-MTD
- PROVIDE DUPLEX POWER RECEPTACLE AND TELECOM OUTLET FOR SHORT-THROW WALL-MOUNTED PROJECTOR, ABOVE WHITE-BOARD ON TEACHING WALL. SEE DETAIL.
- COORDINATE ROUGH-IN LOCATION FOR BOXES UNDER COUNTERTOP TO AVOID CONFLICT WITH COUNTERTOP SUPPORT BRACKETS. REFER TO ARCHITECTURAL DETAILS.
- PROVIDE DATA OUTLET FOR POE CLASSROOM AUTO-TRACKING CLASSROOM CAMERA. CONFIRM ROUGH-IN LOCATION AND MOUNTING HEIGHT WITH OWNER'S I.T. DEPARTMENT. CAMERA BY OWNER.
- PROVIDE POWER OUTLET, DATA OUTLET, AND EMPTY JUNCTION BOX WITH BLANK PLATE AT 18" BELOW CEILING FOR OWNER-PROVIDED A/V CABINET. PROVIDE 1-1/2"C. FROM EMPTY JUNCTION BOX TO STUB-OUT 6" ABOVE CEILING (FOR FUTURE ROUTING OF AV CABLING WITHIN SAME ROOM). COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- BOND BUILDING STEEL TO G.E. SYSTEM PER GROUNDING DIAGRAM. PROVIDE SMALL ACCESS PANEL IN COLUMN WALL TO ENABLE INSPECTION ACCESS TO GROUNDING
- PROVIDE CAT6E CABLE FROM I.T. ROOM, 6' SPARE COILED ABOVE CEILING, WITH RJ45 CONNECTOR, FOR OWNER-PROVIDED SIM ROOM CAMERA.
- 10. PROVIDE 120V POWER FOR TRAP PRIMER. COORDINATE WITH PLUMBING CONTRACTOR.
- 11. PROVIDE DEBRIEF TV OUTLET AND TV TCO AT 48" AFF. VERIFY ROUGH-IN HEIGHT AND LOCATION WITH OWNER.
- 12. PROVIDE DATA/POWER FLOOR BOX FOR MOBILE ANATOMY DISPLAY TABLE. CONFIRM ROUGH-IN LOCATION WITH OWNER DURING CONSTRUCTION. PROVIDE SEPARATE 1"C. HOMERUNS UNDERSLAB FOR POWER AND DATA. SEE SPECS FOR
- 13. PROVIDE DATA/POWER/SYSTEMS FLOORBOX FOR TEACHER PODIUM. LOCATION SHALL BE FIELD-CONFIRMED WITH OWNER. PROVIDE 1"C. POWER HOMERUN UNDERSLAB, 1"C. DATA HOMERUN UNDERSLAB, AND (2) 1-1/2"C. UNDERSLAB FROM BOX TO NEARBY WALL TO STUB OUT ABOVE CEILING (FOR OWNER'S A/V CABLING WITHIN THE SAME ROOM). SEE SPECS FOR

COBURN AND ASSOCIATES



THE SIGNATURE MUST BE VERIFIED O ANY ELECTRONIC COPIES

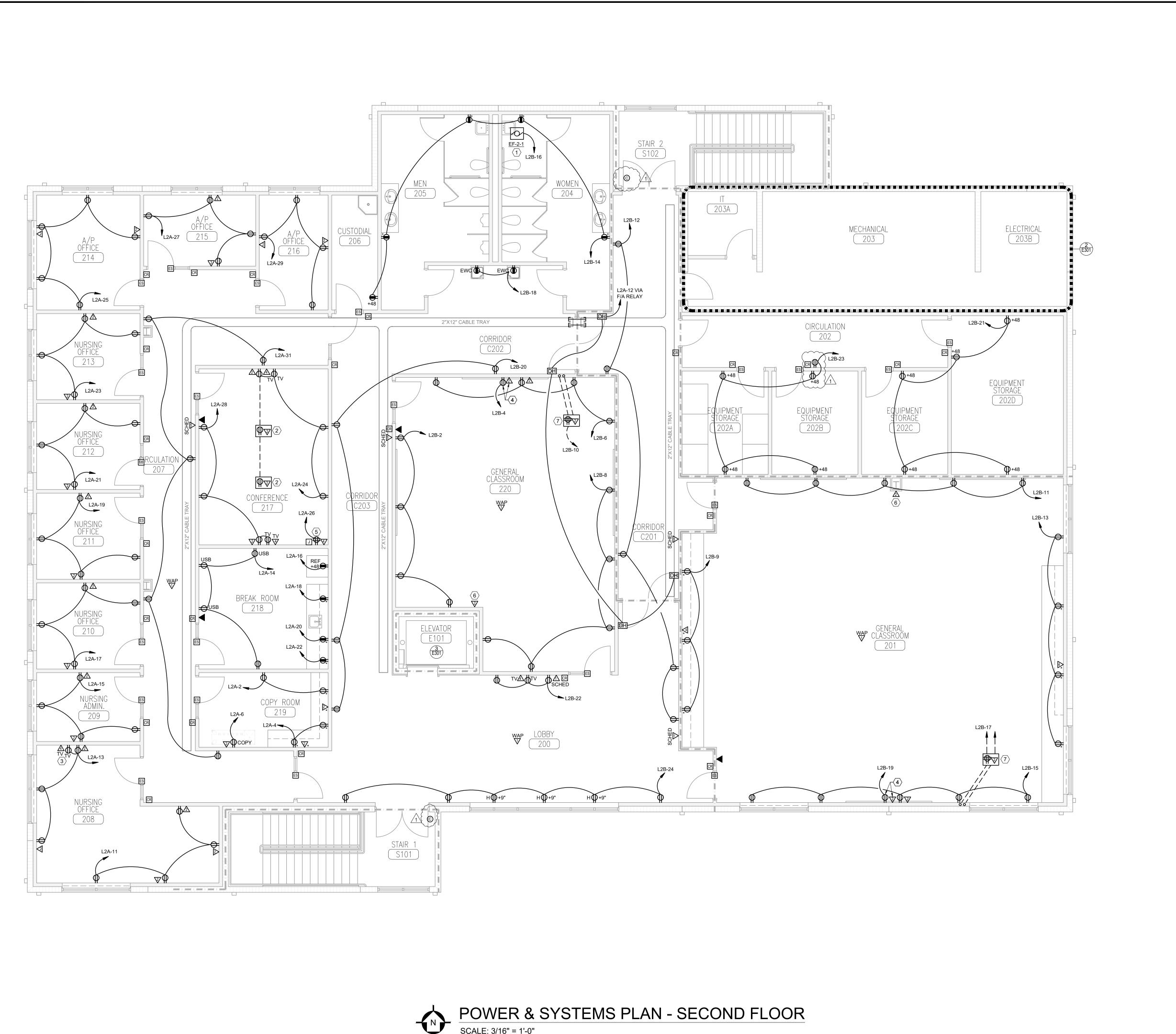
05/14/2024 ADD#02 # Date

POWER & FIRST F

DATE 3/25/2024

2314

CONSULTING ENGINEERS
P.O. BOX 577
HIGH SPRINGS, FLORIDA 32655-0577 (386)454-3748 FLORIDA LICENSED ENGINEERS EB 0003687 E211CA JOB NUMBER 2321



SHEET NOTES

- A. REFER TO MECHANICAL DRAWINGS FOR LOW VOLTAGE POWER TO VAV
- BOXES. B. WAP LOCATIONS SHALL BE

FIELD-COORDINATED WITH OWNER'S

- I.T. DEPARTMENT. C. CABLE TRAY INSTALLATION SHALL BE CLOSELY COORDINATED WITH
- DUCTWORK INSTALLATION. D. NO SHARED NEUTRALS.
- E. CONTRACTOR SHALL COORDINATE WITH OWNER'S LOW VOLTAGE VENDOR TO PROVIDE CABLING AND ROUGH-INS AS REQUIRED FOR INTERIOR AND EXTERIOR SECURITY
- JUNCTION BOXES AND CONDUIT FITTINGS SHALL NOT BE RENDERED INACCESSIBLE BY HARD CEILING. CONTRACTOR SHALL PLAN ROUTINGS ACCORDINGLY.

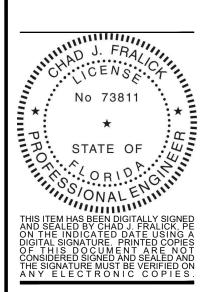
SHEET KEYNOTES

- 1. EXHAUST FAN LOCATED ABOVE
- ROUND, FIRE-RATED, POKE-THRU TYPE BOX (SEE DETAIL). OFFSET BOX FROM CENTER AS NECESSARY TO AVOID CONFLICT WITH BEAM BELOW (SEE STRUCTURAL DRAWINGS). OFFSET BOTH FLOOR BOXES IN ROOM SAME AMOUNT.
- 3. VERIFY TV ROUGH-IN LOCATION WITH
- . PROVIDE DUPLEX POWER RECEPTACLE AND TELECOM OUTLET FOR SHORT-THROW WALL-MOUNTED PROJECTOR, ABOVE WHITE-BOARD ON TEACHING WALL. SEE DETAIL.
- PROVIDE (1) QUAD OUTLET AND (2) 4X4 BLANK-COVERED JUNCTION BOXES IN WALL 6" BELOW CEILING. FROM EACH BOX, PROVIDE 1-1/4"C. TO A STUB OUT 6" ABOVE CEILING. BOXES AND CONDUITS TO BE USED BY OWNER FOR CRESTRON CABINET AND CONTROLS. VERIFY ROUGH-IN LOCATION WITH OWNER.
- PROVIDE DATA OUTLET FOR POE CLASSROOM AUTO-TRACKING CLASSROOM CAMERA. CONFIRM ROUGH-IN LOCATION AND MOUNTING HEIGHT WITH OWNER'S I.T. DEPARTMENT. CAMERA BY OWNER.
- PROVIDE DATA/POWER/SYSTEMS FLOORBOX FOR TEACHER PODIUM. LOCATION SHALL BE FIELD-CONFIRMED WITH OWNER. PROVIDE 1"C. POWER HOMERUN UNDER FLOOR, CAT6E HOMERUNS UNDER FLOOR, AND (2) 1-1/2"C. UNDER FLOOR FROM BOX TO NEARBY WALL TO STUB OUT ABOVE CEILING (FOR OWNER'S A/V CABLING WITHIN THE SAME ROOM). SEE SPECS FOR B.O.D PROVIDE PULL BOX ABOVE FIRST FLOOR CEILING DIRECTLY BELOW
 IN-FLOOR BOX TO INTERCEPT THE (2)

COBURN AND ASSOCIATES

CONSULTING ENGINEERS
P.O. BOX 577
HIGH SPRINGS, FLORIDA 32655-0577
(386)454-3748
FLORIDA LICENSED ENGINEERS EB 0003687

CA JOB NUMBER 2321



1 05/14/2024 ADD#02 # Date

POWER & SYSTEMS SECOND FLOOR

DATE 3/25/2024

2314

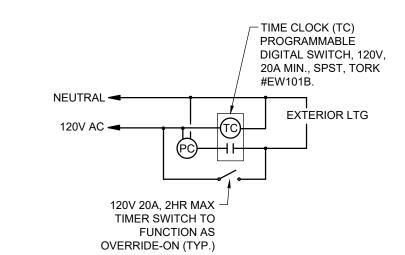
E212

TOTALS (WATTS) 12,282 8,247

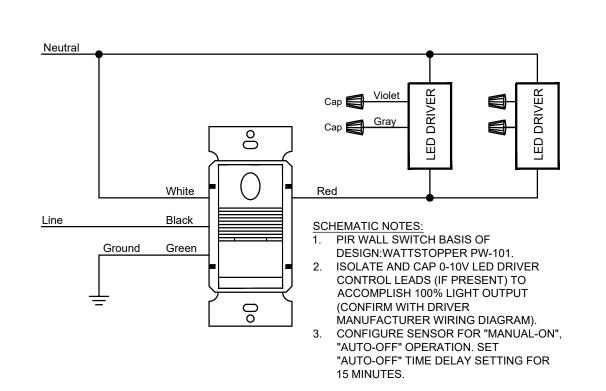
MARK	WATTS	LUMENS	ССТ	DESCRIPTION
A2	16	2,000	4,000	2X2 LED FLAT PANEL LAY-IN FIXTURE, SMOOTH DIFFUSE LENS, 0-10V DIMMABLE. SIGNIFY DAY-BRITE #2FPZ20L840-2-DS-UNV-DIM, OR EQUIVALENT.
А3	23	3,000	4,000	SIMILAR TO A2, EXCEPT FOR WATTS & LUMENS.
A4	34	3,800	4,000	SIMILAR TO A2, EXCEPT FOR WATTS & LUMENS.
A5	36	4,500	4,000	SIMILAR TO A2, EXCEPT FOR WATTS & LUMENS.
В1	10	1,000	4,000	6" ROUND LED DOWNLIGHT, 0-10V DIMMABLE, WIDE BEAM, OPEN TRIM, CLEAR DIFFUS REFLECTOR, WHITE FLANGE, 90CRI. LIGHTOLIER #6RN(FRAME) #P6RDL10940WCDZ10U(ENGINE/TRIM), OR EQUIV.
C1	26	3000	4000K	4' LED LINEAR STRIP LIGHT, FROSTED ACRYLIC LENS. SUSPEND VIA CHAIN. SIGNIFY DAYBRITE# FSS430L840-UNV-DIM, OR EQUIV.
DE1	65	8,040	4,000	4' WALL-MOUNTED FIXTURE FOR STAIRS, UP/DOWN LIGHT, FROSTED .125" THICK ACRYLLENS, INTERGRAL 10W EMERGENCY BACKUP. H.E. WILLIAMS #WMAUD-4-L40/840U/L40/840D-AF-EM/10W-DRVU/DRVD-UNV, OR EQU
F1	23	3,000	4,000	2X4 LED FLAT PANEL LAY-IN FIXTURE, SMOOTH DIFFUSE LENS, 0-10V DIMMABLE. SIGNIFY DAY-BRITE #2FPZ30L840-4-DS-UNV-DIM, OR EQUIVALENT.
F2	47	6,000	4,000	SIMILAR TO F1, EXCEPT FOR WATTS & LUMENS.
G	30	4,000	5,000	4' FULLY ENCLOSED AND GASKETED FIXTURE FOR ELEVATOR SHAFT, SURFACE MOUNTEI H.E. WILLIAMS #96-4-L40/850-HIAFR, OR EQUIV.
н	6	600	4,000	1" DEEP UNDERCABINET LIGHTING, SOLID FRONT, WHITE, FROSTED ACRYLIC LENS .125' THICK. WATTS AND LUMMENS ARE PER FT. PROVIDE CONTINUOUS ROW OF TOTAL LENGTH AS NOTED ON PLANS WITH MANUAL ROCKER SWITCH AT FIRST SEGMENT OF EACH CONTINUOUS RUN, COMPRISED OF 4, 3, & 2 FT SEGMENT LENGTHS AS NECESSAR H.E. WILLIAMS #4SF-L24/840-AF12125, OR EQUIV. H.E. WILLIAMS #2SF-L18/840-AF12125, OR EQUIV H.E. WILLIAMS #2SF-L6/840-AF12125, OR EQUIV
V	10	1,000	5,000	EXTERIOR SHALLOW RECESSED 6" DOWN LIGHT IN CANOPY, SUITABLE FOR WET COVER CEILING LOCATION, CLEAR SPECULAR REFLECTOR, STANDARD FLANGE, WIDE DISTRIBUTION, FLUSH LENS. H.E. WILLIAMS #6PR-TL-L10/850-DIM-UNV-LW-OF-CS-WET/CC-R, OR EQUIV.
W	26	2,700	5,000	EXTERIOR WALL SCONCE, 0% UPLIGHT, VERTICAL FORM, TYPE 3 DISTRIBUTION, **FINIS TO BE SELECTED BY ARCHITECT AT SHOP DRAWING PHASE**, CLEAR GLASS LENS, 70CR MIN., LISTED FOR WET LOCATION, 10'AFF TO TOP OF FIXTURE. H.E. WILLIAMS #VWMV-L20/750-T3-**-CGL, OR EQUIV.
Х	<5	N/A	N/A	EXIT SIGN, GREEN LETTERS, SELF-POWERED WITH RECHARGEABLE NI-CAD BATTERY UPILOSS OF NORMAL VOLTAGE, DIE-CAST ALUM, WHITE HOUSING, WHITE FACES. PROVIDE WITH AUTOTEST. BEGHELLI #LC1-E-SA-LG-U-W-W-AT, OR EQUIV.
Υ	<5	N/A	N/A	EMERGENCY LIGHT, 2 GIMBALLED 5W WHITE LED, HEADS, WHITE THERMOPLASTIC HOUSING, SELF-POWERED WITH RECHARGEABLE BATTERY UPON LOSS OF NORMAL VOLTAGE. PROVIDE WITH AUTOTEST. BEGHELLI #XMR-S1-HO, OR EQUIV.
Z	<5	N/A	N/A	COMBINATION EXIT SIGN AND EMERGENCY LIGHTS, GREEN LETTERS, 2 HIGH OUTPUT 2 LED HEADS. SELF-POWERED WITH RECHARGEABLE BATTERY UPON LOSS OF NORMAL VOLTAGE. PROVIDE WITH AUTOTEST. BEGHELLI #EPC-ATG-HO, OR EQUIV.

1. FIXTURES SHALL HAVE 80 CRI (MIN.), UNLESS OTHER CRI IS NOTED. 2. FIXTURES SHALL BE SUITABLE FOR CONNECTION TO 120V CIRCUITS, U.N.O.

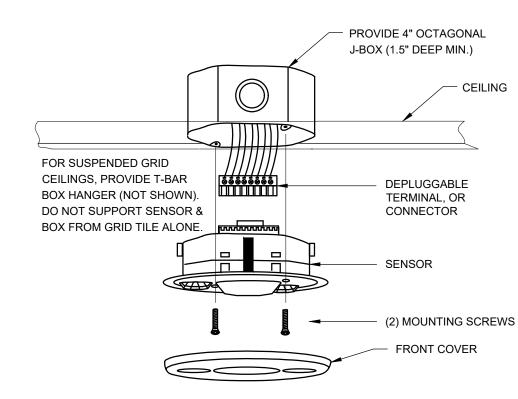
3. FIXTURES SHALL HAVE LED LIGHT SOURCE
4. FIXTURES TO BE INSTALLED IN HARD CEILINGS SHALL BE PROVIDED WITH THE APROPRIATE FLANGE KITS FOR A COMPLETE INSTALLATION.



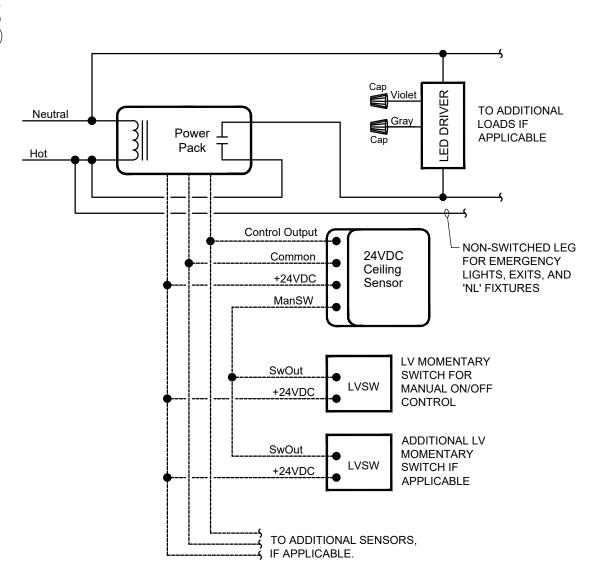
TC-EL/PC-EL CONTROL DIAGRAM



TYPICAL PIR WALL SWITCH SCHEMATIC (APPLIES TO OFFICES, AND SMALL ROOMS)

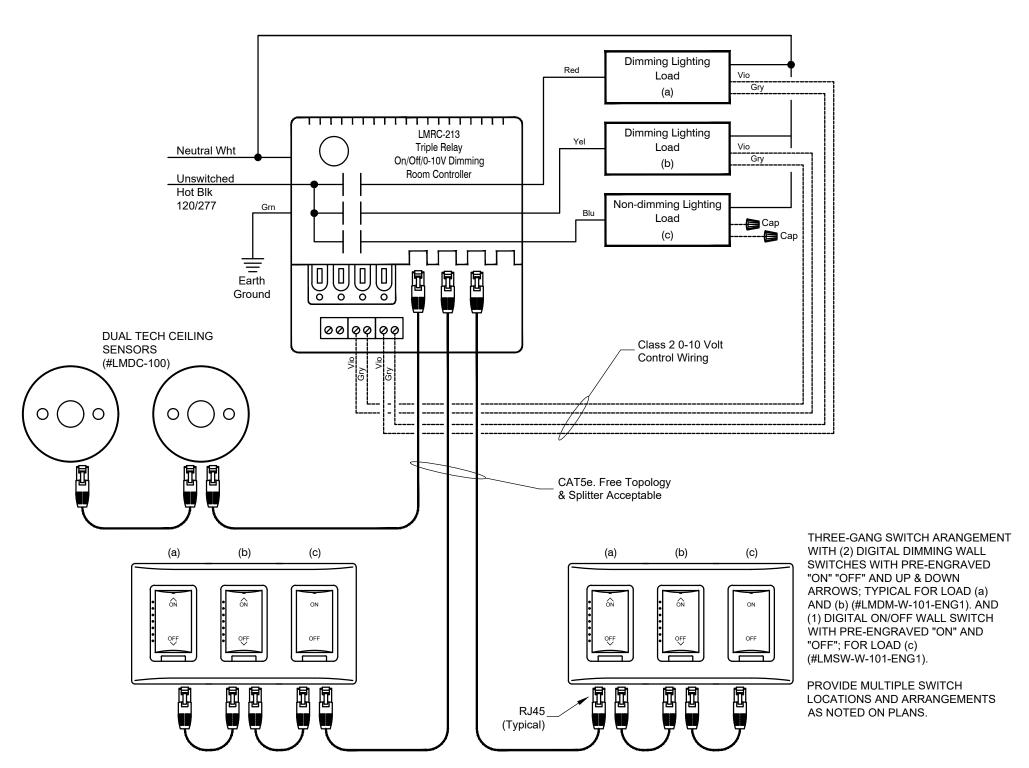


TYPICAL CEILING SENSOR MOUNTING



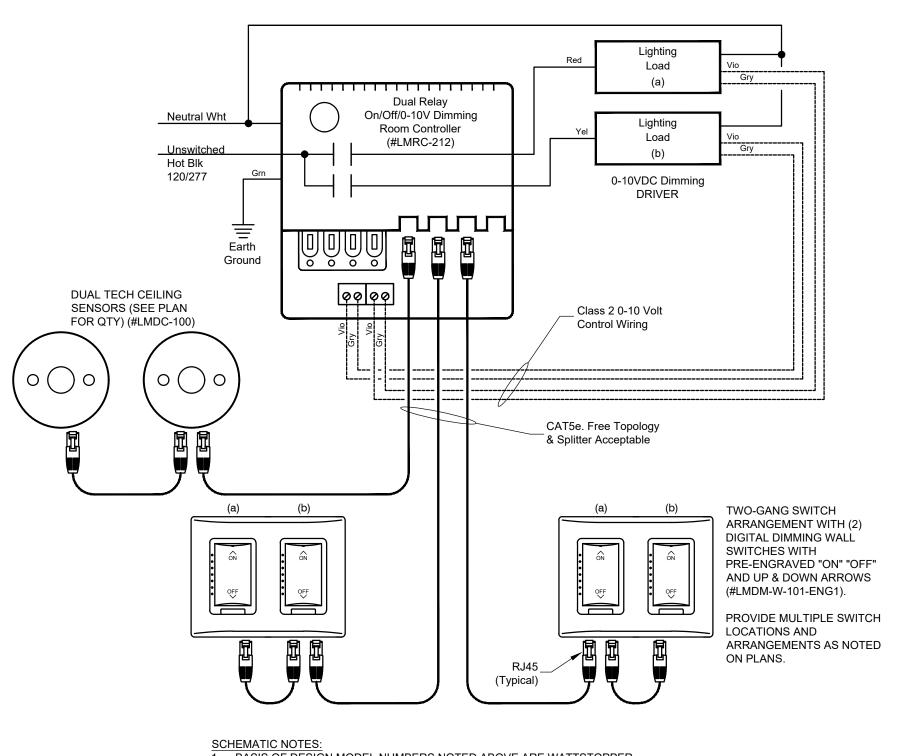
- BASIS OF DESIGN MODEL NUMBERS (WATTSTOPPER):
- 1.1. DUAL TECHNOLOGY (SONAR AND PASSIVE INFRÁRED) CEILING SENSOR: DT-300 1.2. 24VDC POWER PACK: BZ-200
- 1.3. MOMENTARY SWITCH: LVSW-101 2. ISOLATE AND CAP 0-10V LED DRIVER CONTROL LEADS (IF PRESENT) TO ACCOMPLISH
- 100% LIGHT OUTPUT (CONFIRM WITH DRIVER MANUFACTURER WIRING DIAGRAM). 3. CONFIGURE SETTINGS FOR "MANUAL-ON" OPERATION, EXCEPT RESTROOMS, STAIRS,
- LOBBY, AND CORRIDORS SHALL BE SET FOR "AUTO-ON" OPERATION. SET SENSOR "AUTO-OFF" TIME DELAY SETTING FOR 20 MINUTES. 5. WHITE DEVICES AND FACEPLATES, UNLESS DIRECTED OTHERWISE BY ARCHITECT OR
- 6. SEE PLAN FOR SWITCH AND SENSOR QUANTITIES.

TYPICAL NON-DIMMING CEILING SENSOR SCHEMATIC (APPLIES TO LARGER OFFICES, CORRIDORS, LOBBY, STAIRS, AND RESTROOMS)



BASIS OF DESIGN MODEL NUMBERS NOTED ABOVE ARE WATTSTOPPER. 2. CONFIGURE SETTINGS FOR (a), (b), AND (c) FOR "MANUAL-ON", OPERATION. 3. SET SENSOR "AUTO-OFF" TIME DELAY SETTING FOR 20 MINUTES.

MULTIPLE DIMMING/ON/OFF CIRCUITS & SENSORS SCHEMATIC (APPLIES TO CLASSROOMS 101 & 201)



BASIS OF DESIGN MODEL NUMBERS NOTED ABOVE ARE WATTSTOPPER. 2. CONFIGURE SETTINGS FOR BOTH (a), AND (b), FOR "MANUAL-ON", OPERATION. 3. SET SENSOR "AUTO-OFF" TIME DELAY SETTING FOR 20 MINUTES.

MULTIPLE DIMMING CIRCUITS & SINGLE SENSOR SCHEMATIC (CONF ROOM 217, AND CLASSROOM 220)



STATE OF

THE SIGNATURE MUST BE VERIFIED OF ANY ELECTRONIC COPIE:

ATEW

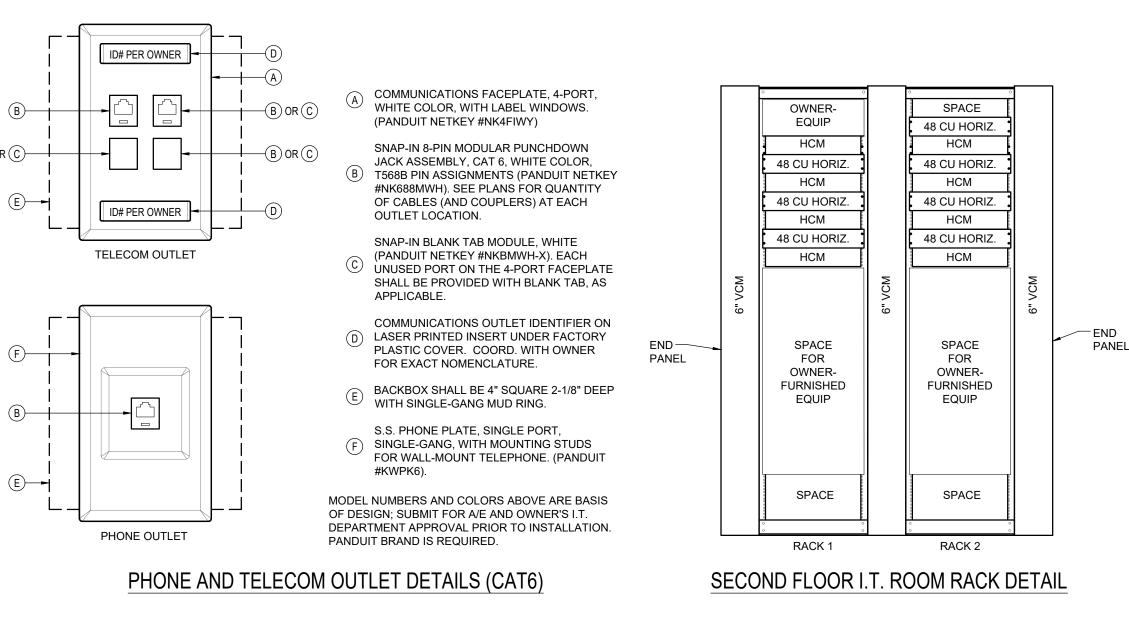
\ |05/14/2024|ADD#02 # Date Note Revisions

AND

S SCHEDULE , DETAILS LIGHTING

> DATE 3/25/2024

E401



EQUIPMENT RACK ABBREVIATIONS 1RU 24-PORT CAT6 COPPER HORIZONTAL CABLE 24 CU HORIZ PATCH PANEL (PANDUIT #DP24688TGY) 48 CU HORIZ 2RU 48-PORT CAT6 COPPER HORIZONTAL CABLE PATCH PANEL (PANDUIT #DP48688TGY) HCM HORIZONTAL CABLE MANAGEMENT (2RU, UNLESS NOTED OTHERWISE) VERTICAL CABLE MANAGEMENT WITH DOORS VCM RACK DETAIL NOTES (FIRST AND SECOND FLOOR): 1. OWNER SHALL FURNISH & INSTALL FIBER BOXES, BACKBONE CABLE, NETWORK SWITCHES, ROUTERS, POE SWITCHES, AND PATCH CABLES FOR I.T. ROOMS. 2. CONTRACTOR SHALL PROVIDE RACKS, CABLE MANAGEMENT ACCESSORIES, PATCH PANELS, HORIZONTAL CABLES, AND SHALL MAKE ALL FINAL TERMINATIONS OF HORIZONTAL CABLES TO PATCH PANELS AND TELECOM OUTLETS. COMPONENTS SHALL BE PANDUIT BRAND TO MATCH CAMPUS STANDARDS. 3. I.T. ROOM RACK DETAILS ARE BASIS OF DESIGN. CONTRACTOR SHALL SUBMIT RACK LAYOUT DRAWINGS FOR COLLEGE I.T. DEPARTMENT REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. 4. CONTRACTOR SHALL COORDINATE ALL I.T. WORK WITH COLLEGE I.T. DEPARTMENT.

> TELECOM RISER KEYED NOTES: ⟨T1⟩ SPACE FOR FUTURE RACK.

 $\langle T2 \rangle$ RACK, SEE DETAIL.

FLOOR. (PANDUIT #R4PCN) (TYP.) SPACE MAINTAIN **EQUIP** 48 CU HORIZ. CLEAR SPACE IN I.T. ROOM HCM HCM FOR FUTURE 48 CU HORIZ. 48 CU HORIZ. RACK HCM HCM ADJACENT TO RACK3 48 CU HORIZ. 48 CU HORIZ. (ASSUME HCM HCM **FUTURE RACK** WILL HAVE 48 CU HORIZ. 48 CU HORIZ. SAME SPACE HCM HCM DIMENSIONS FOR AS OTHER OWNER-RACKS) FURNISHED EQUIP SPACE SPACE — END PANEL OWNER-OWNER-**FURNISHED FURNISHED EQUIP EQUIP** SPACE SPACE SPACE **FUTURE RACK 4** RACK 1

FIRST FLOOR I.T. ROOM RACK DETAIL

(a) 1ST FLOOR PODIUM FLOOR BOX, PROVIDE

CONDUIT BACK TO TELECOM ROOM AND

CONDUITS TO ABOVE CLASSROOM CEILING

19" 4-POST EQUIPMENT RACK, 30"

DEEP, 45RU MOUNTING SPACE, 84"

HEIGHT. RACK SHALL BE SECURED TO

SHEET NOTES

A. CAT6 OUTER JACKET COLORS SHALL BE BASED ON CABLE APPLICATION AS FOLLOWS:

A.A. GREEN - WIRELESS ACCESS

A.B. RED - SECURITY/LIFE-SAFETY/FIRE A.C. YELLOW - ENERGY MANAGEMENT SYSTEM/BUILDING CONTROLS

A.D. BLUE - VOICE/DATA

B. REFER TO FLOOR PLANS FOR DEVICE

LOCATIONS AND QUANTITIES. C. DOOR SECURITY ROUGH-IN DETAILS PROVIDED ON THIS SHEET ARE BASIS OF DESIGN, FOR BIDDING PURPOSES. CONTRACTOR SHALL COORDINATE WITH SECURITY VENDOR ROUGH-IN SHOP DRAWINGS DURING CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUITS AND JUNCTION BOXES AS REQUIRED FOR ROUGH-IN. OWNER'S SECURITY VENDOR WILL PROVIDE CABLES AND INSTALLATION OF SECURITY DEVICES.

> STATE OF CONSIDERED SIGNED AND SEALED OF THE SIGNATURE MUST BE VERIFIED CANY ELECTRONIC COPIE!

\ |05/14/2024|ADD#02

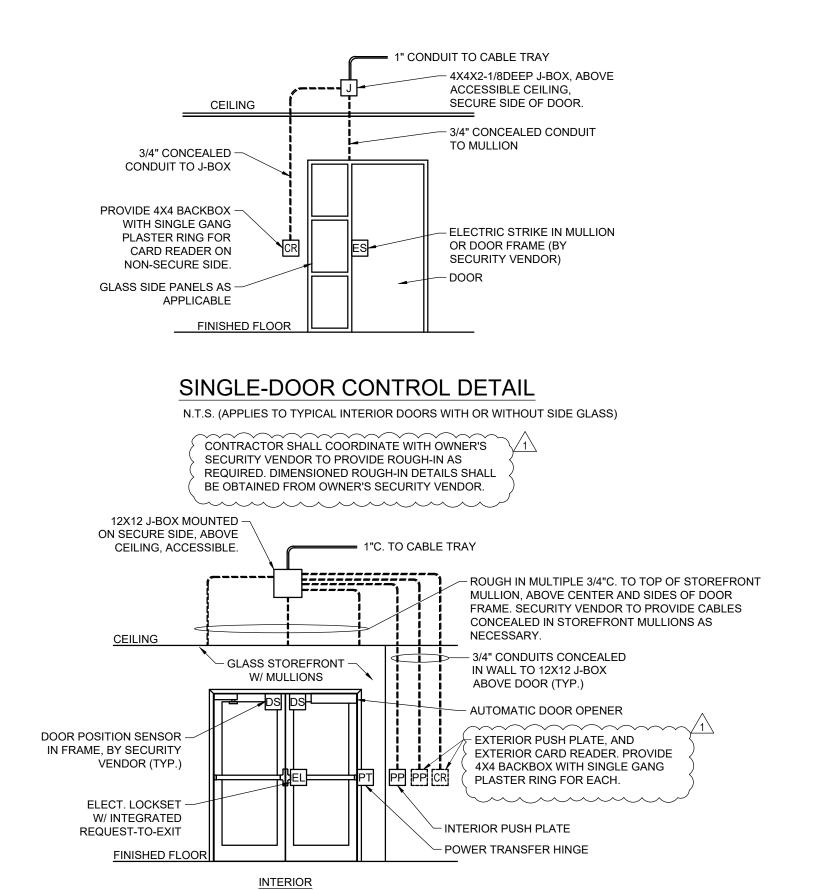
|Date

ш S $\overline{\mathbf{z}}$

ST

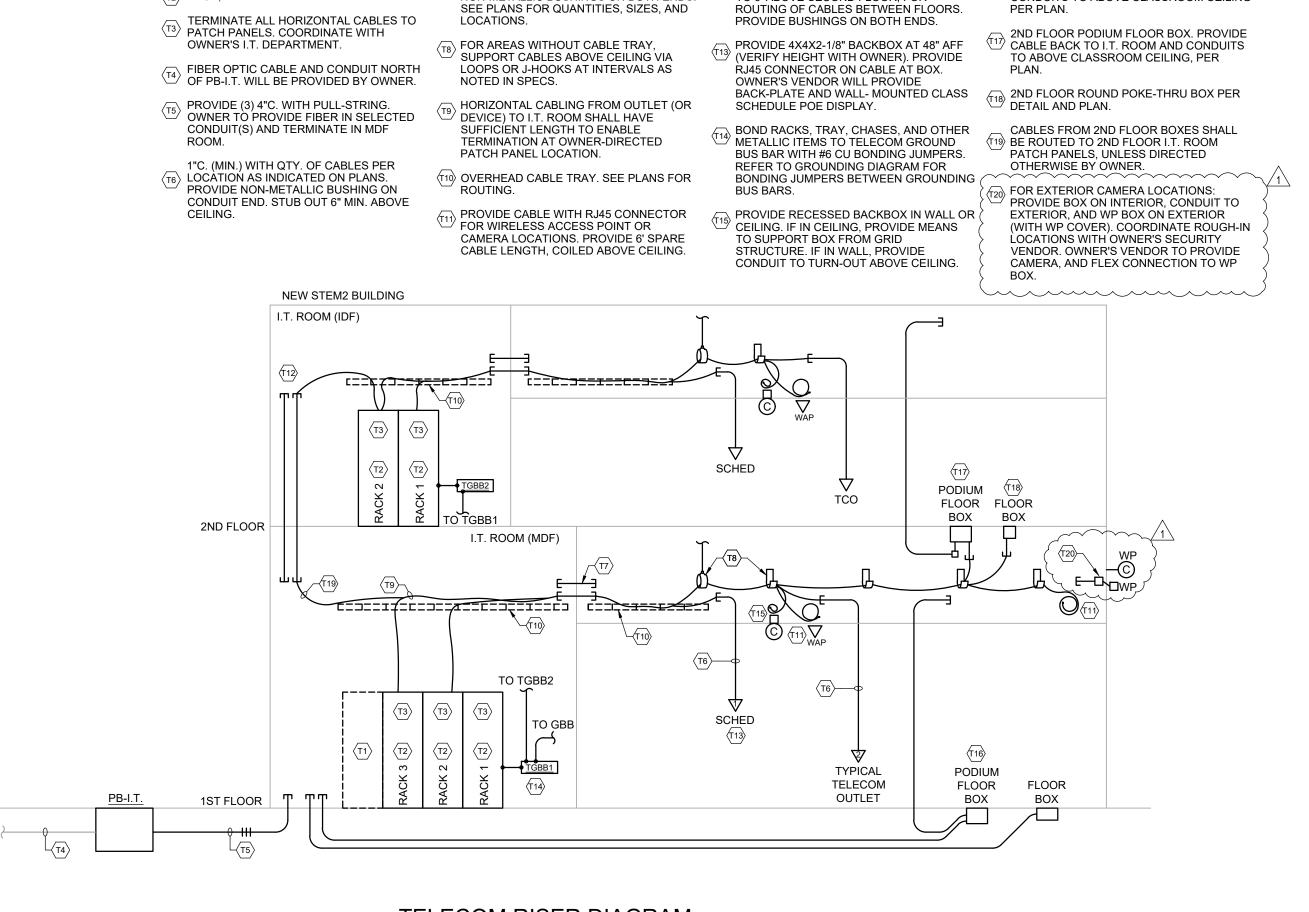
SY DATE 3/25/2024

E701CA JOB NUMBER 232



DOUBLE-DOOR CONTROL DETAIL

N.T.S. (APPLIES TO MAIN ENTRY DOOR)



 $\langle \overline{17} \rangle$ PROVIDE SLEEVE THRU WALL, 12" BEYOND $\langle \overline{112} \rangle$ PROVIDE (2) 4" SLEEVES THRU FLOOR,

FACE OF WALL ON BOTH SIDES,

NON-METALLIC BUSHINGS ON BOTH ENDS.

EXTENDING FROM 9' ABOVE FIRST FLOOR

TO 6' ABOVE SECOND FLOOR. FOR

TELECOM RISER DIAGRAM

COBURN AND ASSOCIATES CONSULTING ENGINEERS P.O. BOX 577 HIGH SPRINGS, FLORIDA 32655-0577 (386)454-3748 FLORIDA LICENSED ENGINEERS EB 0003687