



514 Market Street, Wilmington NC 28401
phone 910.762.2621
www.bmharch.com

December 20, 2024

ADDENDUM #2

Coastal Carolina Community College
Learning Resources Center
First Floor Renovation
SCO ID: 23-26060-01A

This addendum forms a part of the contract documents and modifies the original drawings and project manual dated November 2024. The enclosed additions, deletions, corrections, and changes shall be as binding as if incorporated in the original documents. All General Conditions, Special Conditions, etc. as originally specified shall apply to these items. Acknowledgement of receipt of this addendum will be required as part of the contract agreement.

Item 1 **The bid date and time have changed, the place remains the same:** The bid will be held Tuesday, January 28, 2025, at **2:00 pm** in the 2nd Floor Conference Room (Room 207) of the Institutional Support Services Building at Coastal Carolina Community College, 444 Western Boulevard, Jacksonville, North Carolina 28546.

Item 2 Minutes for the Open Meeting for Preferred Brand Alternates are included as **Attachment #1**.

Item 3 Minutes for the Prebid Meeting are included as **Attachment #2**.

Item 4 **Clarification**

There is no contingency allowance included in the base bid. Contingency allowances are not permitted by the North Carolina State Construction Office.

Item 5 **Clarification – TK Elevator Contact**

Coastal Carolina Community College has a maintenance agreement with TK Elevator. Contact information of TK Elevator is:

Sam Thompson
sam.thompson@tkelevator.com
704-492-2017

Item 6 **Clarification – Instruction to Bidders**

As stated in the Instruction to Bidders: No bid may be withdrawn for thirty (30) days.

Item 7 **Architectural Drawing Sheet D1.1 – Clarification**

Drawing 4/D1.1 requires shoring at existing concrete window stool. Shoring to be provided by GC. Window stool is to remain and be incorporated into new work - reference drawing 1/A4.0.

Item 8 Architectural Drawing Sheets G1.1 and G1.2

There was a minor mathematical error recorded on sheet G1.2 for the total first floor occupant count. Architectural drawings G1.1 and G1.2 have been revised and submitted to the City of Jacksonville. Revised drawings are included as **Attachment #3 and #4.**

Item 9 Architectural Drawing Sheet A6.0

A note has been added to sheet A6.0 to require engineering calculations and fastening patterns for the storefront units on the second floor that are called out to be removed and replaced. Revised drawing A6.0 is included as **Attachment #5.**

Item 10 Electrical Drawing E-0.9

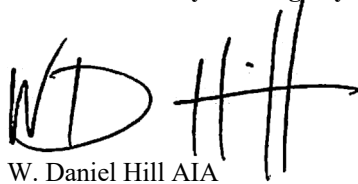
The specified exterior lighting fixture types L12 and L12E have a B.U.G. rating of U=0. The Lighting Fixture Schedule has been revised to indicate this requirement. Revised drawing sheet E-0.9 is included as **Attachment #6.**

Item 11 Fire Alarm Drawings F0.1 and F1.1

Drawing sheet F0.1 has been revised to include a requirement for Fire Alarm Shop Drawings and a Fire Construction permit application to be submitted to the City of Jacksonville during construction. Revised drawing sheet F0.1 has been included as **Attachment #7.**

The Fire Alarm System Control Matrix has been modified to include elevator recall initiated by smoke detection. Revised Sheet F1.1 has been included as **Attachment #8.**

Bowman Murray Hemingway Architects, PC



W. Daniel Hill AIA



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December 17, 2024

ADDENDUM #2
Attachment #1
Minutes - Open Meeting for Preferred Brand Alternates

Coastal Carolina Community College
 Learning Resources Center
 First Floor Renovation
 SCO ID: 23-26060-01A

December 17, 2024 @ 10:00 am

Attending:

NAME	COMPANY	PHONE	EMAIL
Daniel Hill	BMH Architects	910-762-2621	hill@bmharch.com
David Hahn	CBHF	910-791-4000	dhahn@cbhfengineers.com
Carol Lurz	Coastal Carolina Community College	910-938-6343	lurzc@coastalcarolina.edu
Greg Hedrick	Construction Managers	919-242-4600	greg.hedrick@constructman.com
Sam Giacobbi	DOT Construction	252-838-1425	sgiacobbi@dotconstructioninc.com
Michael Kyle	Semper Fi Improvements	301-672-0761	semperfihmk@gmail.com
Bishop Williams	Waters Contracting	919-279-7265	BishopW@waterscontracting.net
Jim Sabino	Primus Structures	252-503-7070	jim@primusstructures.com
Sam Thompson	TK Elevator	704-492-2017	sam.thompson@tkelevator.com
Ryan Arthur	Group III Mgt	252-917-7971	rarthur@groupiiimgt.com
Jackie Johnson	Group III Mgt	252-560-8630	jackie@groupiiimgt.com
Spencer Clark	D. H. Griffin	336-707-8268	saclark@dhgriffin.com
Kenny Burgess	D. H. Griffin	910-443-5357	kburgess@dhgriffin.com
David Bradey	Retro Environmental	910-800-0587	dbradey@retroenvironmental.com
Jared Quillen	Quillen Welding Services	252-723-2106	quillenwelding@gmail.com
Rocky	Quillen Welding Services	919-255-4845	
Jacob Freeman	Clancy & Theys	910-622-8707	jacobfreeman@clancythey.com
Wayne Howard	Waters Contracting	252-764-5070	wayne@waterscontracting.net
Joseph Frank	Buffloe Utilities	252-503-5296	josephfrank20@gmail.com
Mark Buffalo	Buffloe Utilities	252-723-3159	buffaloandsons@yahoo.com
Tyler Beacham	Schneider Electric	813-368-0442	tyler.beacham@se.com
Jay Honeycutt	Schneider Electric		jay.honeycutt@se.com
Caleb Chavis	Kowen General Contractor	910-852-2712	Caleb.chavis@Kowengc.com
Darren Jones	McKinley Building	910-279-3062	djones@mckinleybuilding.com
Josh Tilley	Monteith Construction	910-200-9824	joshtilley@monteithco.com
Brandon Horne	TE Davis Construction	910-353-3112	bhorne@tedavisconstruction.com
Michael McRae	Flooring Solutions	843-206-9396	mmcrae@flooringsolutions.com

Daniel Hill of Bowman Murray Hemingway Architects opened the meeting and thanked those in attendance.

All questions related to this project should be addressed to Daniel Hill either by phone at 910-762-2621 or preferably by email at hill@bhmharch.com.

The purpose of this meeting is the presentation and review of the (8) preferred brand alternates for the Learning Resources Center – First Floor Renovation.

Alternate #4 was presented as noted in the specifications:

State the amount to be added to the base bid to provide the basis of design door hardware as specified in section 087100:

Hinges and Butts:	McKinney (see specification)
Continuous Hinges:	Ives: 224HD
Cylinders and Keying:	Corbin Russwin
Mortise Locks:	Corbin Russwin ML2000 x LWA
Cylindrical Locks:	Corbin Russwin CL3300 Series
Door Closers:	LCN 4040XP/4040XP
Exit Devices:	Von Duprin 99 Series

The rationale for this alternate is that it allows the College to maintain it's existing door hardware system and standard keyway. This alternate allows the door hardware in the Learning Resources Center to be consistent with the door hardware that is in place on the second floor of this building and throughout the campus.

Alternate #5 was presented as noted in the specifications:

State the amount to be added to the base bid to provide Sliding Automatic Entrances by Stanley Automatic Sliding Doors as specified in Section 084232.

The rationale for this alternate is that it allows the College to maintain it's existing sliding automatic entrance system. This is a campus standard.

Alternate #6 was presented as noted in the specifications:

State the amount to be added to the base bid to provide fire alarm systems and devices by Notifier as specified in section 283111.

The rationale for this alternate is that the existing fire alarm system, a portion of which will remain, in the Learning Resources Center is by Notifier. This alternate maintains the owner's existing system.

Alternate #7 was presented as noted in the specifications:

State the amount to be added to the base bid to provide Schneider Electric DDC system as specified in section 230923 DIRECT DIGITAL CONTROL SYSTEM FOR HVAC, drawing M7.1, and drawing M7.2.

The rationale for this alternate is that it allows the owner to maintain the existing DDC system that already exists in the second floor of the Learning Resources Center and throughout the campus of Coastal Carolina Community College.

Alternate #8 was presented as noted in the specifications:

State the amount to be added to the base bid to provide telecommunication structured cabling systems and devices by Amp Netconnect as specified in section 271500.

The rationale of this alternate is that it allows the owner to maintain standardization within the existing telecommunication structured cabling systems and devices.

Alternate #9 was presented as noted in the specifications:

State the amount to be added to the base bid to provide the basis of design plumbing fixtures as scheduled on drawing P0.2:

1. **WC-1 ADA Water Closet: American Standard 3043.001.020, Sloan 111-1.28-DFB, Bemis Manufacturing Co. 1955SSCT.**
2. **WC-2 Water Closet: American Standard 2234.001.020, Sloan 113-1.28-DFB-Z, Bemis Manufacturing Co. 1955SSCT.**
3. **UR-1 Urinal: American Standard 6590001.020, Sloan 186-0.125-DBP, Zurn Z1221-UNIV.**
4. **LAV-1 ADA Lavatory: American Standard 0497.221.020, Moen 8894, Jones Stephens D70100.**
5. **SK-1 2-Compartment Sink: Elkay LR33223, Moen 8701, Elkay LK35.**
6. **FD-1 Floor Drain: Sioux Chief 832-4PNR.**
7. **HB-1 Hose Bibb: Woodford 24P.**
8. **OB-1 Ice Maker Box: Sioux Chief 696-G1010XF.**

The rationale of this alternate is that it allows the owner to maintain standardization within the Learning Resources Center Building for plumbing fixtures consistent with the existing second floor.

Alternate #10 was presented as noted in the specifications:

State the amount to be added to the base bid to provide Trane EXHG Ground-coupled heat pumps as scheduled on drawing M6.1.

The rationale of this alternate is that it allows the owner to maintain standardization for the Learning Resources Center project consistent with the existing second floor.

Alternate #11 was presented as noted in the specifications:

State the amount to be added to the base bid to provide elevator modernization to the main elevator in the Learning Resources Center Building (TKE Serial # US155244) by TKE as specified in section 142400.5 Hydraulic Elevator Modernization.

The rationale of this alternate is that it allows the owner to maintain the existing elevator service contract in place with TKE.

Opportunity was given to the owner's representatives and to David Hahn, with CBHF Engineers, to add any additional information. No additional information was presented at that time.

Time and opportunity were given to all present to make comments or present questions. All present were asked if there were any objections to the preferred brand alternates for the Learning Resources Center Renovation.

Seeing and hearing no questions, comments, or objections, Daniel Hill closed the meeting.



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December 17, 2024

ADDENDUM #2
Attachment #2
Pre-bid Meeting Minutes

Coastal Carolina Community College
 Learning Resources Center
 First Floor Renovation
 SCO ID: 23-26060-01A

December 17, 2024 @ 10:00 am

Attending:

NAME	COMPANY	PHONE	EMAIL
Daniel Hill	BMH Architects	910-762-2621	hill@bmharch.com
David Hahn	CBHF	910-791-4000	dhahn@cbhfengineers.com
Carol Lurz	Coastal Carolina Community College	910-938-6343	lurz@coastalcarolina.edu
Greg Hedrick	Construction Managers	919-242-4600	greg.hedrick@constructman.com
Sam Giacobbi	DOT Construction	252-838-1425	sgiacobbi@dotconstructioninc.com
Michael Kyle	Semper Fi Improvements	301-672-0761	semperfhimk@gmail.com
Bishop Williams	Waters Contracting	919-279-7265	BishopW@waterscontracting.net
Jim Sabino	Primus Structures	252-503-7070	jim@primusstructures.com
Sam Thompson	TK Elevator	704-492-2017	sam.thompson@tkelevator.com
Ryan Arthur	Group III Mgt	252-917-7971	rarthur@groupiiimgt.com
Jackie Johnson	Group III Mgt	252-560-8630	jackie@groupiiimgt.com
Spencer Clark	D. H. Griffin	336-707-8268	saclark@dhgriffin.com
Kenny Burgess	D. H. Griffin	910-443-5357	kburgess@dhgriffin.com
David Bradey	Retro Environmental	910-800-0587	dbradey@retroenvironmental.com
Jared Quillen	Quillen Welding Services	252-723-2106	quillenwelding@gmail.com
Rocky	Quillen Welding Services	919-255-4845	
Jacob Freeman	Clancy & Theys	910-622-8707	jacobfreeman@clancytheys.com
Wayne Howard	Waters Contracting	252-764-5070	wayne@waterscontracting.net
Joseph Frank	Buffloe Utilities	252-503-5296	josephfrank20@gmail.com
Mark Buffaloe	Buffloe Utilities	252-723-3159	buffaloeandsons@yahoo.com
Tyler Beacham	Schneider Electric	813-368-0442	tyler.beacham@se.com
Jay Honeycutt	Schneider Electric		jay.honeycutt@se.com
Caleb Chavis	Kowen General Contractor	910-852-2712	Caleb.chavis@Kowengc.com
Darren Jones	McKinley Building	910-279-3062	djones@mckinleybuilding.com
Josh Tilley	Monteith Construction	910-200-9824	joshtilley@monteithco.com
Brandon Horne	TE Davis Construction	910-353-3112	bhorne@tedavisconstruction.com
Michael McRae	Flooring Solutions	843-206-9396	mmcrae@flooringsolutions.com

Daniel Hill of Bowman Murray Hemingway Architects opened the pre-bid meeting and thanked those in attendance.

All questions related to this project should be addressed to Daniel Hill either by phone at 910-762-2621 or preferably by email at hill@bhmharch.com. Contractors are not to contact engineering consultants or the College directly with bid questions.

The time and date of the bid was discussed and has been revised.

Sealed proposals will be received by Coastal Carolina Community College in the 2nd Floor Conference Room (Room 207) of the Institutional Support Services Building at Coastal Carolina Community College at 444 Western Boulevard, Jacksonville, N.C. 28546, on Tuesday January 28th, 2025, at 2:00 pm and immediately thereafter publicly opened and read for the furnishing of labor, material, and equipment entering into the construction of the Learning Resources Center – First Floor Renovation.

The project scope was reviewed and discussed. The project scope is primarily on the first floor and includes, but is not limited to, selective demolition, new finishes, windows and doors, gypsum and light gauge metal framing, and new plumbing, mechanical and electrical systems. A building sprinkler system for the first floor is part of the project scope. Also included in the project scope is an elevator modernization and new finishes and guard rails for the central stair. New covered canopy construction for two new entries is a part of the project scope.

Bids will be received for a single prime contract - General Construction (which includes plumbing, HVAC, and electrical). All proposals shall be lump sum.

The contractors were reminded that they and their subcontractors need to read the General and Supplementary General Conditions of this project.

The contractor is to place the project name, contractor's name, and contractor's license number clearly on the outside of the bid envelope. The contractor may submit the bid package in advance of the opening date. The sealed envelope will be held and unsealed at the bid opening time. If you wish to send your bid via US Mail, FedEx, or UPS, please allow several days for delivery since the bid must be received (NOT postmarked) by 2:00 pm on January 28, 2025. The package should be sent to Coastal Carolina Community College, 444 Western Boulevard, North Carolina 28546 to the attention of Carol Lurz. Bids are due and will be accepted by the architect until 2:00 pm on January 28, 2025.

One set (hard copy) of drawings and the project manual is available for a refundable deposit of \$100.00. Additional copies will be provided at cost. PDF copies of the contract documents are available for no fee. Contact bowers@bhmharch.com to arrange for electronic or paper copies of the contract documents.

The State of North Carolina encourages participation by minority contractors and has a verifiable goal of 10% on all projects. Contractors are advised that the **Identification of HUB certified/Minority Business Participation form must be included with the bid.** Contractors are advised that minority general contractors do not qualify as a contributor to the 10% goal, only subcontractors, suppliers and vendors. Contractors are encouraged to verify minority contractors are qualified minorities prior to bid.

A bid bond in the amount of 5% will be required to be submitted with the bid.

A performance bond and a payment bond will be required for one hundred percent (100%) of the contract price.

It was announced in the meeting that no bid may be withdrawn for sixty (60) days. **Correction: No bid may be withdrawn for thirty (30) days.**

The Contractors were reminded to read the Instructions to Bidders. Please pay special attention to the section on opening of the bids.

The contractor is reminded that modifying the bid form in any way or leaving any item blank may result in bid disqualification. All alternates and unit prices must be filled in. If an alternate is a no cost change the bid form

should be noted “0.00 dollars” or “no change.” Contractors are reminded that use of the AIA bid bond form in lieu of the form contained in the project manual is considered a modification and is not permitted.

Contractors were advised that substitution requests will only be accepted up to ten days prior to bid unless a product is no longer manufactured. The last day to submit a substitution request will be 2:00 pm on Friday, January 17, 2025. Contractors are reminded to review section 012500 Product Substitutions in the project manual and to use the Substitution Request Form contained in the project manual.

Contractors should review the insurance requirements outlined in Article 34 of the General Conditions of the contract. In many instances, insurance companies have been hesitant to accept or refused to accept the state mandated language regarding policy cancellation, reduction, or elimination. Contractors are encouraged to review this information with their insurer prior to bid. Coastal Carolina Community College has advised the contracts will be required to be executed in a timely manner. Contractors who cannot obtain the required Insurance Certificate will be considered non-responsive and the contract will be awarded to the next lowest responsive bidder. The College would anticipate issuing the Notice to Proceed to the responsive low bidder prior to the end of February.

The contract duration is 350 days. There are liquidated damages in the amount of \$200 per day that may be assessed for exceeding the allocated contractual time.

The contractor will be allowed to use the owner’s existing power and water without metering or payment. The contractor must provide temporary toilets, such as port-a-johns, for contractor’s staff, including all sub-contractors.

Any area of the project site damaged during construction shall be restored to original condition.

The contractors can have access to the building prior to the bid by contacting Carol Lurz at 910-938-6343 or lurzcc@coastalcarolina.edu during normal working hours.

Please be aware that there are (8) Owner Preferred Alternates, they were presented in a preferred brand alternate meeting directly preceding the pre-bid meeting. There are also (3) scope alternates.

Contractors were advised that the existing roof is an NCFI foam roof as noted on the drawings in the contract documents.

It is the College’s intent that the second floor shall remain in use and operational for the duration of the project. Limited periods of closing the second floor to staff and student use shall be coordinated in advance with the owner’s representative. The college has already modified the door hardware to rated stair enclosures from night latch panic hardware to classroom / entry panic hardware to allow student access to second floor during construction. During construction, the G.C. shall maintain student access to the existing elevator to the greatest extent possible.

Please be aware that designated laydown and parking areas for contractors is identified on drawing sheet A1.0 in the contract documents.

This project is considered a ‘major’ project by the North Carolina State Construction Office and will have an assigned project monitor.

The project will require special inspections and the owner is currently going through the process to procure an independent third-party inspection services.

This project has received plan review approval by the City of Jacksonville. The project number is BP24-00002434 in the City of Jacksonville E-plan system. It is the responsive low-bidder’s responsibility to obtain and pay for all necessary permits and inspections. The City of Jacksonville will require the responsive low-bidding contractor to apply for a separate fire construction permit.

Please review the architectural and structural drawings and specifications for items required to have delegated design and items required to be engineered by a licensed engineer in the State of North Carolina. It is not expected that these requirements will be waived in the shop drawing review process. A question was asked about the foundations for new work, contractors are directed to the structural drawings for information on the timber piles, pile caps, and grade beam foundations.

David Hahn with CBHF Engineers gave a brief scope of work for the plumbing, mechanical, and electrical work. Plumbing and electrical work is basically a complete removal and replacement with new on the first floor. Electrical work includes a new transformer being set. There is a scope alternate for a new whole building generator. Mechanical work involves, but is not limited to, removal of the existing ductwork and ground coupled heat pumps on the first floor and replacement with new. The building mechanical system is a geothermal system. It was recommended that pre-tab reports be completed for the water flow to the new mechanical units. Mechanical work also includes a new air cooler unit. David Hahn reviewed that care should be taken to keep existing systems operational and in place as long as feasible. Coordination with the owner will need to take place during construction considering that the second floor will remain in operation.

It was noted that existing utilities are present on site in the location of the new equipment courtyard. It was noted that contractors are to take care when excavating in this area and should hand dig in this location for the required new work.

Any information required relating to the specifications and construction drawings will be directed to BMH Architects for clarification. Contractors are advised that requests for information on the project will only be accepted up to eight days prior to bid. The last day to submit requests for information will be 5:00 pm on Monday, January 20, 2025.

Normal working hours shall be unrestricted: Work that interrupts students' needs will be stopped upon project manager(s)' request. The College's class schedule will not be modified for this project. All work must comply with the local noise ordinance. Work may not take place during the College's exam schedule. Exam dates upcoming semesters have been included in the project specifications as a reference document.

The Contractor shall anticipate a total of ten (10) days for exams, including make-up dates, when no work can be performed.

The meeting was adjourned, and all contractors were given an opportunity to visit the construction site.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: Learning Resources Center - First Floor Renovation
Address: 444 Western Boulevard, Jacksonville, North Carolina
Owner/Authorized Agent: Carol Lurz

CONTACT: W. Daniel Hill, AIA - Bowman Murray Hemingway Architects

Table with columns: DESIGNER, FIRM, NAME, LICENSE #, TELE. #, E-MAIL. Lists architectural, civil, electrical, fire alarm, plumbing, mechanical, and structural designers.

2018 NC BUILDING CODE: [] New Construction [] Shell/Core [] 1st Interior Completions
[] Addition [] Phased Construction - Shell Core

2018 NC BUILDING CODE: EXISTING: [] Prescriptive [] Alteration Level I [] Historic Property
[] Repair [] Alteration Level II [] Change of Use
[] Chapter 14 [] Alteration Level III

CONSTRUCTED: (date) 1975 CURRENT OCCUPANCY(S) (Ch.3): Assembly (A-3)
RENOVATED: 2019 PROPOSED OCCUPANCY(S) (Ch.3): Assembly (A-3) (no change)

RISK CATEGORY (Table 1604.5) Current: [] I [] II [] III [] IV
Proposed: [] I [] II [] III [] IV

BASIC BUILDING DATA: Construction Type: [] I-A [] II-A [] III-A [] IV [] V-A
[] I-B [] II-B [] III-B [] V-B
Sprinklers: [] No [] Partial [] Yes*

* NOTE: Fire line, sprinkler riser, and second floor building sprinkler systems were added in 2019 renovation.
Sprinkler protection of first floor will be completed in this project.

Gross Building Area Table with columns: FLOOR, EXISTING (SQ. FT.), NEW (SQ. FT.), SUB-TOTAL, ALTERATION AREA.

ALLOWABLE AREA: Primary Occupancy Classification(s): Assembly [] A-1 [] A-2 [] A-3 [] A-4 [] A-5
Business [] Educational [] Factory [] Hazardous [] Institutional [] Mercantile [] Residential [] Storage [] Utility and Miscellaneous []

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 - List Code Sections): N/A
Special Provisions: (Chapter 5 - List Code Sections): N/A

Mixed Occupancy: [] No [] Yes Separation: Hr. Exception:
Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building.

Area of Occupancy A / Allowable Area of Occupancy A + Area of Occupancy B / Allowable Area of Occupancy B <= 1
+ + = <1.00

Table with columns: STORY NO., DESCRIPTION AND USE, BLDG AREA PER STORY (ACTUAL), TABLE 506.2 AREA, (C) 1.5 AREA FOR FRONTAGE INCREASE, (D) 2.3 AREA PER STORY OR UNLIMITED.

Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 205' (F)
b. Total Building Perimeter = 480' (P)
c. Ratio (F/P) = .427 (F/P)
d. W = Minimum width of public way = 30' (W)
e. Percent of frontage increase: If = [F/P - 0.25] x W/30 = .427 - 0.25 x 1 = 17.7% (X)

Unlimited area applicable under conditions of Section 507.
Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
The maximum area of open parking garages must comply with Table 406.5.4.
Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT table with columns: BUILDING HEIGHT IN FEET (TABLE 504.3), ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE 1.

Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
The maximum height of air traffic control towers must comply with table 412.3.1.
The maximum height of open parking garages must comply with table 406.5.4.

FIRE PROTECTION REQUIREMENTS table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATING REQ'D, RATING PROVIDED (W/REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS.

PERCENTAGE OF WALL OPENING CALCULATIONS table with columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION (TABLE 705.8), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%).

LIFE SAFETY SYSTEM REQUIREMENTS: Emergency Lighting: [] No [] Yes
Exit Signs: [] No [] Yes
Fire Alarm: [] No [] Yes
Smoke Detection Systems: [] No [] Yes [] Partial
Carbon Monoxide Detection: [] No [] Yes

LIFE SAFETY PLAN REQUIREMENTS: Life Safety Plan #: 1/G1.2 2/G1.2
[] Fire and / or smoke rated wall locations (Chapter 7)
[] Assumed and real property line locations (if not on the site plan)
[] Exterior wall opening area with respect to distance to assumed property lines (705.8)
[] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
[] Occupant loads for each area.
[] Exit access travel distances (1017)
[] Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
[] Dead end lengths (1020.4)
[] Clear exit widths for each exit door
[] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
[] Actual occupant load for each exit door
[] A separate schematic plan indicating where fire rated floor/ ceiling and/ or roof structure is provided for purposes of occupancy separation.
[] Location of doors with panic hardware (1010.1.10)
[] Location of doors with delayed egress locks and amount of delay (1010.1.9.7)
[] Location of doors with electromagnetic egress locks (1010.1.9.9)
[] Location of doors with hold-open devices
[] Location of emergency escape windows (1030)
[] The square footage of each fire area (202)
[] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
[] Note any code exceptions or table notes that may have been utilized regarding items above

ACCESSIBLE DWELING UNITS (SECTION 1107)
[NOT APPLICABLE]

ACCESSIBLE PARKING (SECTION 1106)
[NOT APPLICABLE - EXISTING TO REMAIN - NO CHANGE]

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) table with columns: USE, WATERCLOSETS, URINALS, LAVATORIES, SHOWERS, DRINKING FOUNTAINS.

*50% URINAL SUBSTITUTION FOR WATER CLOSET AS PER NCPD SECTION 403.9.5.3
NOTE: FIRST FLOOR TOILET ROOMS TO BE COMPLETELY RENOVATED.
NOTE: (2) DRINKING FOUNTAINS AND (1) SERVICE SINK ARE REQUIRED AND PROVIDED.

NOTE: NCBC SECTION 1109.2.1 REQUIREMENT FOR ACCESSIBLE FAMILY USE TOILET ROOM APPLIES IF 6 OR MORE WATERCLOSETS ARE REQUIRED FOR THE ASSEMBLY OR MERCANTILE OCCUPANCY ONLY. (ASSEMBLY OCCUPANCY FOR BUILDING REQUIRES ONLY 5 TOTAL AGGREGATE WATERCLOSETS)

PLUMBING FIXTURE CALCULATIONS table with columns: Assembly (A-3) Requirements, Business (B) Requirements.

SPECIAL APPROVALS: Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
North Carolina State Construction Office
City of Jacksonville

ENERGY SUMMARY: ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided.

Existing building envelope complies with code: [] No [] Yes (The remainder of this section is not applicable)
Exempt Building: [] No [] Yes (Provide code or statutory reference): NCEBC 908.1
Climate Zone: [] 3A [] 4A [] 5A
Method of Compliance: Energy Code [] Performance [] Prescriptive
ASHRAE 90.1 [] Performance [] Prescriptive

THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly) EXISTING TO REMAIN: Inside surface resistance, 1/2" ACT. Air space, 7" Concrete, R-8 Bd. insulation, sloped fiber fill, Built-up roofing, Membrane roofing, Outside surface resistance
Description of assembly:
U-Value of total assembly: 0.052
R-Value of insulation: R-8
Skylights in each assembly: 4
U-Value of skylight: 0.70
total square footage of skylights in each assembly: 72

Roof/ceiling Assembly (each assembly) New roof at new covered Canopy (Non-Conditioned Space)
Description of assembly: Open below, PVC membrane roof on gypsum cover board on rigid insulation on metal deck
U-Value of total assembly: 0.075
R-Value of insulation: R-11.25 (sloped insulation varies from 3/4" to 3 3/4")
Skylights in each assembly: N/A
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (Existing Exterior Walls*): EXISTING TO REMAIN: Inside surface resistance, 8" CMU, R-5 Bd. insulation, air space, 4" Face brick, outside surface resistance
Description of assembly:
U-Value of total assembly: .137
R-Value of insulation: R-5
Openings (windows or doors with glazing) [Shall comply w/ 2018 NCECC Table C402.4]
U-Value of assembly: .28 (< 0.32)
Solar heat gain coefficient: 0.23 (< 0.25) (less than 40 when PF is > 0.5)
projection factor: < 0.5
Door R-values: N/A

Walls below grade (each assembly) EXISTING TO REMAIN
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
Floors over unconditioned space (each assembly) EXISTING TO REMAIN
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors slab on grade EXISTING TO REMAIN
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
Horizontal/ vertical requirement: N/A
slab heated: NO

STRUCTURAL DESIGN: DESIGN LOADS: Importance Factors: Snow (ls) 1.1
Seismic (le) 1.25
Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 100 psf
Ground Snow Loads: 10 psf
Wind Loads: Ultimate Wind Speed 147 PER ASCE 7-10
Exposure Category B

SEISMIC DESIGN CATEGORY: [] A [] B [] C [] D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) [] I [] II [] III [] IV
Spectral Response Acceleration SS 0.148 %g S1 0.07 %g
Site Classification (ASCE 7) [] A [] B [] C [] D [] E [] F
Data Source: [] Field Test [] Presumptive [] Historical Data

Basic Structural System: [] Bearing Wall [] Dual w/Special Moment Frame
[] Building Frame [] Dual w/Intermediate R/C or Special Steel
[] Moment Frame [] Inverted Pendulum
Analysis Procedure: [] Simplified [] Equivalent Lateral Force [] Dynamic
Architectural, Mechanical, Components anchored? [] Yes [] No

LATERAL DESIGN CONTROL: Earthquake [] Wind []

SOIL BEARING CAPACITIES: Field Test (provide copy of test report) psf
Presumptive Bearing capacity psf
Pile size, type, and capacity 8" Timber, 30kip

MECHANICAL SUMMARY: MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone: 3A
winter dry bulb: 23° F
summer dry bulb: 93° F
Interior design conditions
winter dry bulb: 70° F
summer dry bulb: 75° F
relative humidity: 60° RH

Building heating load: See Mechanical
Building cooling load: See Mechanical

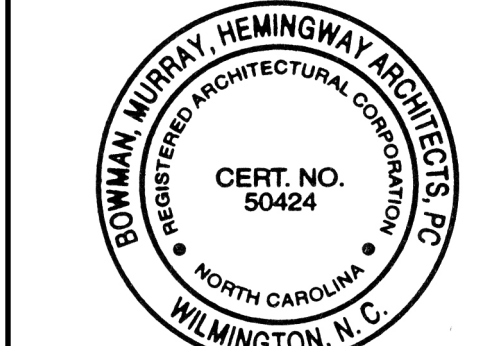
Mechanical Spacing Conditioning System
Unitary
description of unit: See Mechanical Schedules
heating efficiency: See Mechanical Schedules
cooling efficiency: See Mechanical Schedules
size category of unit: See Mechanical Schedules
Boiler
Size category. If oversized, state reason: N/A
Chiller
Size category. If oversized, state reason: N/A
List equipment efficiencies: See Mechanical Schedules

ELECTRICAL SUMMARY: ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code: [] Prescriptive [] Performance
ASHRAE 90.1: [] Prescriptive [] Performance
Lighting schedule (each fixture type)
Lamp type required in fixture: (See Fixture Schedule)
number of lamps in fixture: (See Fixture Schedule)
ballast type used in the fixture: (See Fixture Schedule)
number of ballasts in fixture: (See Fixture Schedule)
total wattage per fixture: (See Fixture Schedule)
total interior wattage specified vs allowed (whole building or space by space) TBD - SEE E-0.9
total exterior wattage specified vs allowed TBD - SEE E-0.9
Additional Prescriptive Compliance
[] 506.2.1 More Efficient Mechanical Equipment
[] 506.2.2 Reduced Lighting Power Density
[] 506.2.3 Energy Recovery Ventilation Systems
[] 506.2.4 Higher Efficiency Service Water Heating
[] 506.2.5 On-Site Supply of Renewable energy
[] 506.2.6 Automatic Daylighting Control Systems



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SCO ID# 23-26060-01A



Coastal Carolina Community College
Learning Resources Center -
First Floor Renovation
444 Western Boulevard, Jacksonville, North Carolina 28546

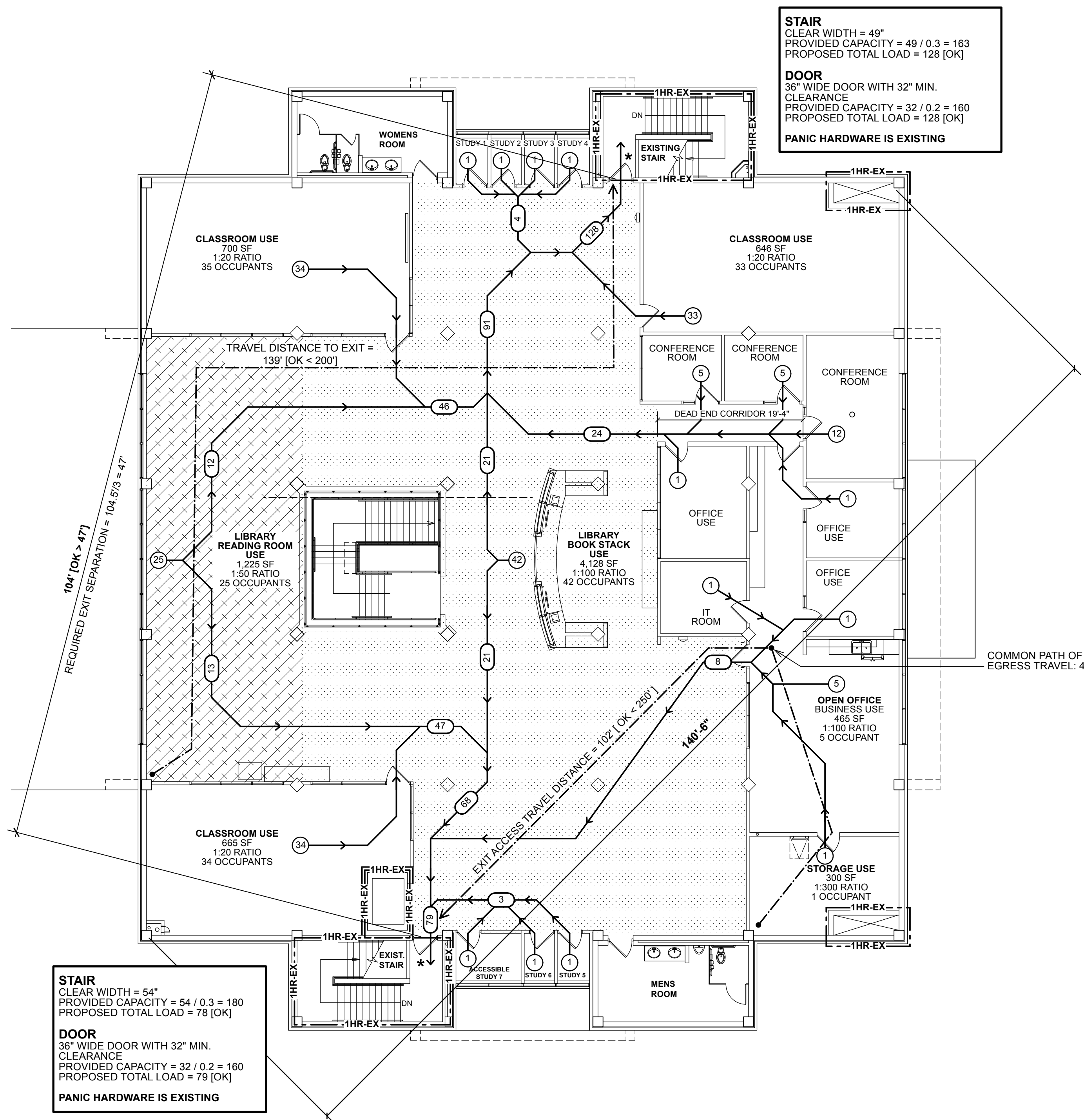
12.13.24 ADDENDUM #2: City of Jacksonville review comments

Table with columns: REV., DATE, DESCRIPTION. Includes Project Manager (DP), Date (11-25-2024), Reviewed By (DH), Project ID, Sheet Title.

BUILDING DATA/ APPENDIX B

Sheet No. G1.1

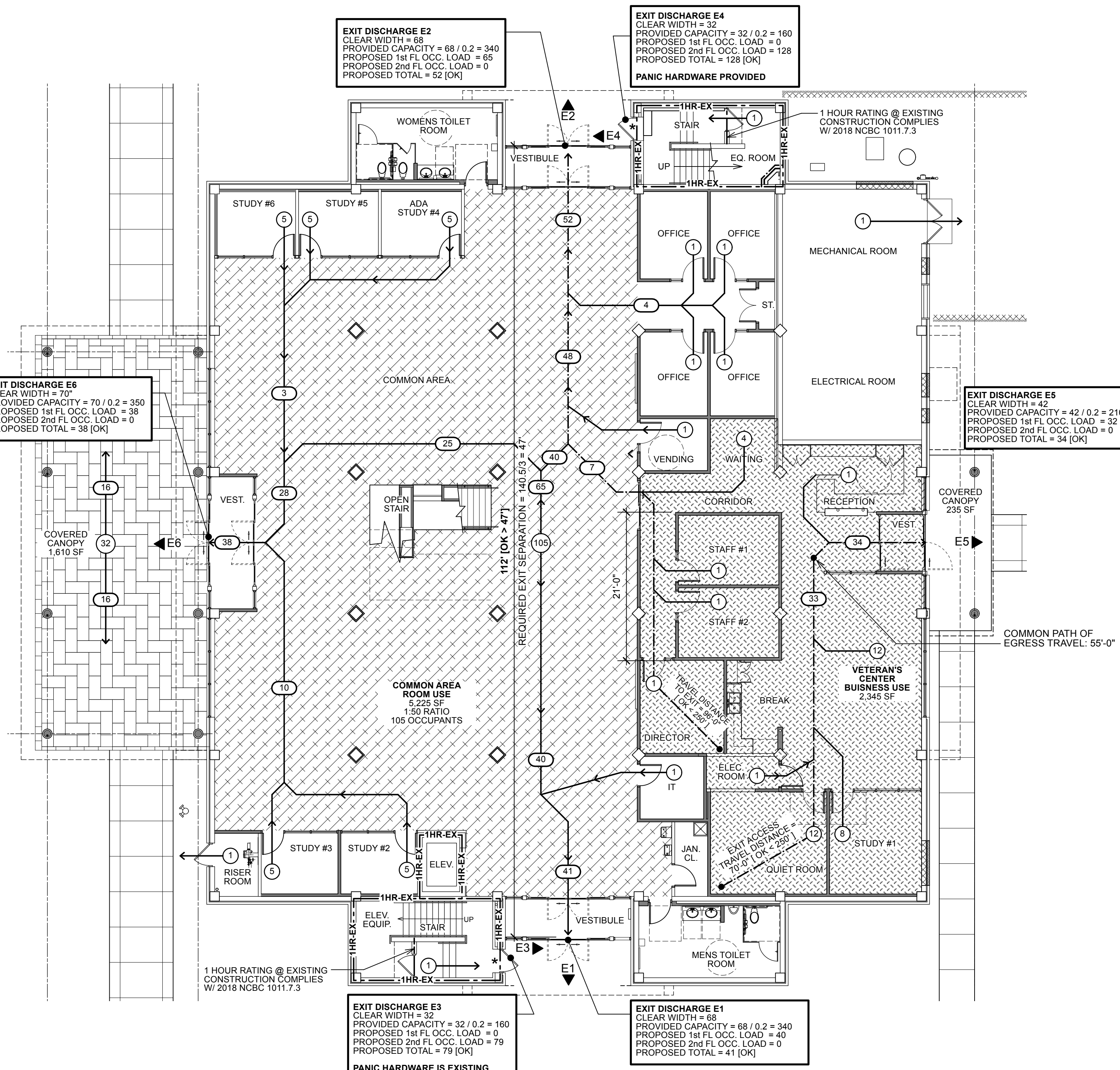
Addendum #2
Attachment #3



1 Second Floor Life Safety Plan (Unchanged in Project)
 Scale: 1" = 10'-0"

NOTE:
 SECOND FLOOR HAS NFPA13 SPRINKLER SYSTEM FROM 2019 RENOVATION PROJECT.

PROJECT NOTE:
 IT IS THE OWNER'S INTENT THAT THE SECOND FLOOR SHALL REMAIN IN USE AND OPERATIONAL FOR THE DURATION OF THE PROJECT. LIMITED PERIODS OF CLOSING THE SECOND FLOOR TO STAFF AND STUDENT USE SHALL BE COORDINATED IN ADVANCE WITH THE OWNERS REPRESENTATIVE. PRIOR TO CONSTRUCTION, THE COLLEGE WILL MODIFY DOOR HARDWARE TO RATED STAIR ENCLOSURES FROM NIGHT LATCH PANIC HARDWARE TO CLASSROOM / ENTRY PANIC HARDWARE TO ALLOW STUDENT ACCESS TO SECOND FLOOR DURING CONSTRUCTION. DURING CONSTRUCTION, G.C. SHALL MAINTAIN STUDENT ACCESS TO THE EXISTING ELEVATOR TO THE GREATEST EXTENT POSSIBLE. REFER TO DRAWING D1.0 FOR TEMPORARY PARTITIONS TO BE MAINTAINED DURING CONSTRUCTION.



2 First Floor Life Safety Plan
 Scale: 1" = 10'-0"

LEGEND - FOR 1/G1.2 & 2/G1.2

E5	EXIT DISCHARGE DOOR #
#	ROOM OCCUPANCY LOAD
##	EGRESS PATH OCCUPANCY LOAD
OCC.	OCCUPANCY
*	DOOR WITH PANIC HARDWARE
1HR-EX	1 HOUR RATED FIRE BARRIER- EXISTING TO REMAIN AND BE MAINTAINED IN CONSTRUCTION

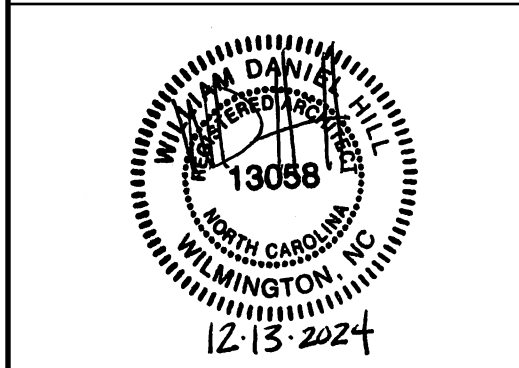
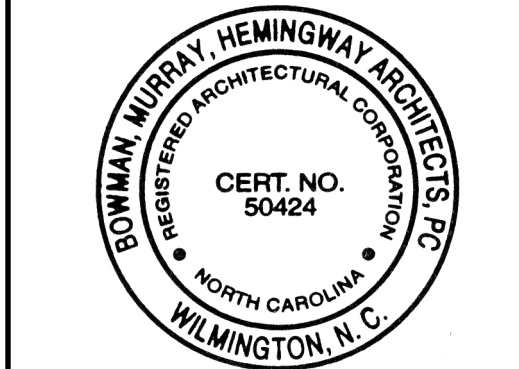
LEARNING RESOURCES OCCUPANCY COUNT

FIRST FLOOR: 12,995 SF TOTAL
TOTAL OCCUPANTS FOR FIRST FLOOR: 163 (A-3) + 38 (B) = 201 TOTAL
201 TOTAL = 100 FEMALE & 100 MALE
SECOND FLOOR: 10,445 SF TOTAL
TOTAL OCC. FOR SECOND FLOOR: 199 (A-3) + 8 (B) = 207 TOTAL
207 = TOTAL 104 FEMALE & 104 MALE
TOTAL: 408
MEN: 204
WOMEN: 204



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 444 Western Boulevard, Jacksonville, North Carolina 28546

12.13.24 ADDENDUM #2: City of Jacksonville review comments

REV.	DATE	DESCRIPTION
Project Manager	Drawn By	DP
Date	11-25-2024	Reviewed By
		DH
Project ID		

Sheet Title
FIRST AND SECOND FLOOR LIFE SAFETY PLANS

Sheet No.

G1.2

Addendum #2
 Attachment #4

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER/SERIES	NOM. SIZE	SOURCE / TEMP(°K) / DELIVERED LUMENS	VOLTS	WATTS	LENS	COLOR/MATERIAL	MOUNTING HEIGHT	DRIVER/DIMMING	REMARKS / MFGR. OPTIONS
L1	LAY-IN CENTER ELEMENT LED	ACUITY "STAKS" SERIES COLUMBIA "LCAT24" SERIES DAYBRITE "2FGX" SERIES	2'x4'	LED / 3500K / 6000 LUMENS	MVOLT	50	VOLUMETRIC ACRYLIC	WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER 0-10V, 10% DIMMING	80 CRI, COL, ZT
L1E	LAY-IN CENTER ELEMENT LED	ACUITY "STAKS" SERIES COLUMBIA "LCAT24" SERIES DAYBRITE "2FGX" SERIES	2'x4'	LED / 3500K / 6000 LUMENS	MVOLT	50	VOLUMETRIC ACRYLIC	WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER 0-10V, 10% DIMMING	80 CRI, COL, ZT E10WLCP BATTERY BACKUP
L2	LAY-IN CENTER ELEMENT LED	ACUITY "STAKS" SERIES COLUMBIA "LCAT24" SERIES DAYBRITE "2FGX" SERIES	2'x4'	LED / 3500K / 4000 LUMENS	MVOLT	33	VOLUMETRIC ACRYLIC	WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER 0-10V, 10% DIMMING	80 CRI, COL, ZT
L2E	LAY-IN CENTER ELEMENT LED	ACUITY "STAKS" SERIES COLUMBIA "LCAT24" SERIES DAYBRITE "2FGX" SERIES	2'x4'	LED / 3500K / 4000 LUMENS	MVOLT	33	VOLUMETRIC ACRYLIC	WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER 0-10V, 10% DIMMING	80 CRI, COL, ZT E10WLCP BATTERY BACKUP
L2A	LAY-IN CENTER ELEMENT LED	ACUITY "STAKS" SERIES COLUMBIA "LCAT24" SERIES DAYBRITE "2FGX" SERIES	2'x4'	LED / 3500K / 4000 LUMENS	MVOLT	33	VOLUMETRIC ACRYLIC	WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER 0-10V, 1% DIMMING	80 CRI, COL, ZT
L2AE	LAY-IN CENTER ELEMENT LED	ACUITY "STAKS" SERIES COLUMBIA "LCAT24" SERIES DAYBRITE "2FGX" SERIES	2'x4'	LED / 3500K / 4000 LUMENS	MVOLT	33	VOLUMETRIC ACRYLIC	WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER 0-10V, 1% DIMMING	80 CRI, COL, ZT E10WLCP BATTERY BACKUP
L3	LAY-IN LED	ACUITY "CPX LED" SERIES COLUMBIA "CBT24" SERIES HE WILLIAMS "BP24" SERIES	2'x4'	LED / 3500K / 5000 LUMENS	MVOLT	37	SATIN WHITE	WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER 0-10V, 10% DIMMING	
L4	RECESSED LINEAR LED	MARK LIGHTING "SLOT 2 LED" LITECONTROL "ZL" SERIES FINELITE "HP2R" SERIES	2" x LENGTH AS INDICATED	LED / 3500K / 600 LUMENS PER FOOT	120	6 PER FOOT	FLUSH SATIN ACRYLIC	WHITE/ STEEL	RECESSED CEILING	LED DRIVER 0-10V, 10% DIMMING	LOP, FLP, FL, 80 CRI, MIN10, ZT
L5	SURFACE MOUNTED LED WRAPAROUND	ACUITY "BLWP 4" SERIES COLUMBIA "RLW4" SERIES HE WILLIAMS "39" SERIES	4'	LED / 3500K / 4800 LUMENS	MVOLT	37	VOLUMETRIC ACRYLIC	WHITE/ STEEL	SURFACE CEILING	LED DRIVER 0-10V, 10% DIMMING	ADSM, GZ10
L5E	SURFACE MOUNTED LED WRAPAROUND	ACUITY "BLWP" SERIES COLUMBIA "RLW4" SERIES HE WILLIAMS "39" SERIES	4'	LED / 3500K / 4800 LUMENS	MVOLT	37	VOLUMETRIC ACRYLIC	WHITE/ STEEL	SURFACE CEILING	LED DRIVER 0-10V, 10% DIMMING	ADSM, GZ10, E10WLCP BATTERY BACKUP
L6	SURFACE MOUNTED LED STRIP	ACUITY "CSS" SERIES COLUMBIA "CSL4" SERIES DAYBRITE "SDS" SERIES	4'	LED / 3500K / 5000 LUMENS	MVOLT	43		WHITE/ ALUMINUM	SURFACE CEILING	LED DRIVER	AL03
L7	WALL MOUNTED VANITY LIGHT	ACUITY "FMVTSL" SERIES WAC LIGHTING "WS" SERIES TGS "VF3" SERIES	3'	LED / 3500K / 1300 LUMENS	MVOLT	26	WHITE ACRYLIC	BRUSHED NICKEL	WALL OVER MIRROR	LED DRIVER 0-10V, 10% DIMMING	
L8	RECESSED LED DOWNLIGHT	LITHONIA "LBR4 NCH" SERIES GREEN CREATIVE "NYX" SERIES LIGHTOLIER "Z4RDL" SERIES	4"	LEDs / 3500K / 1500 LUMENS	MVOLT	18		WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER UGZ 0-10V DIMMING	7
L8E	RECESSED LED DOWNLIGHT	LITHONIA "LBR4 NCH" SERIES GREEN CREATIVE "NYX" SERIES LIGHTOLIER "Z4RDL" SERIES	4"	LEDs / 3500K / 1500 LUMENS	MVOLT	18		WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER UGZ 0-10V DIMMING	7, E10WCP BATTERY BACKUP
L8A	RECESSED LED DOWNLIGHT	LITHONIA "LBR4 NCH" SERIES GREEN CREATIVE "NYX" SERIES LIGHTOLIER "Z4RDL" SERIES	4"	LEDs / 3500K / 1500 LUMENS	MVOLT	18		WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER UGZ 0-10V DIMMING	7, WET LOCATION LABEL
L8AE	RECESSED LED DOWNLIGHT	LITHONIA "LBR4 NCH" SERIES GREEN CREATIVE "NYX" SERIES LIGHTOLIER "Z4RDL" SERIES	4"	LEDs / 3500K / 1500 LUMENS	MVOLT	18		WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER UGZ 0-10V DIMMING	7, E10WCP BATTERY BACKUP, WET LOCATION LABEL
L9	RECESSED LED DOWNLIGHT	LITHONIA "LBR4 NCH" SERIES GREEN CREATIVE "NYX" SERIES LIGHTOLIER "Z4RDL" SERIES	4"	LEDs / 3500K / 2000 LUMENS	MVOLT	22		WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER UGZ 0-10V DIMMING	7, WET LOCATION LABEL
L9E	RECESSED LED DOWNLIGHT	LITHONIA "LBR4 NCH" SERIES GREEN CREATIVE "NYX" SERIES LIGHTOLIER "Z4RDL" SERIES	4"	LEDs / 3500K / 2000 LUMENS	MVOLT	22		WHITE/ ALUMINUM	RECESSED CEILING	LED DRIVER UGZ 0-10V DIMMING	7, E10WCP BATTERY BACKUP, WET LOCATION LABEL
L10	SURFACE MOUNTED LED TAPE LIGHT	ACOLYTE "CHAS1-F-WH-RB-SWS220" SERIES JESCO "DL" SERIES KELVIX "502" SERIES	LENGTH AS INDICATED	LED / 3500K / 339 LUMENS/FT	120/24	3 WLF		WHITE	SURFACE UNDER CABINET	LED DRIVER 0-10V DIMMING	IP20 RATING, 11, 13, 14, ASI CHANNEL, CLEAR LENS FLOOD DISTRIBUTION, PROVIDE EQUIVALENT LED REPLACEMENT LAMP AS REQUIRED
L11	WALL MOUNTED SQUARE UPLIGHT CYLINDER	SEA GULL LIGHTING "8731701" SERIES LITON "WD10340" SERIES FC LIGHTING "FCCS0400" SERIES	4" x 10"	LEDs / 3500K / 1500 LUMENS	MVOLT	18		WHITE/ ALUMINUM	WALL	LED DRIVER	WET LOCATION LABEL, 17
L12	WALL MOUNTED LED AREA LIGHT	ACUITY "WPX1 LED" SERIES EXO "SG1" SERIES LEDALUX "MWP15" SERIES	8" x 11"	LEDs / 4000K / 2900 LUMENS	MVOLT	24		BRONZE/ ALUMINUM	WALL	LED DRIVER	E10WCP BATTERY BACKUP, WET LOCATION LABEL, 17
L12E	WALL MOUNTED LED AREA LIGHT	ACUITY "WPX1 LED" SERIES EXO "SG1" SERIES LEDALUX "MWP15" SERIES	8" x 11"	LEDs / 4000K / 2900 LUMENS	MVOLT	24		BRONZE/ ALUMINUM	WALL	LED DRIVER	E10WCP BATTERY BACKUP, WET LOCATION LABEL, 17
L13	WALL MOUNTED DOWN LIGHT CYLINDER	KIRLIN "LSC-09RDN" SERIES PRESCOLITE "LTC" SERIES PEACHTREE LIGHTING "C9BLR" SERIES	9" x 16"	LEDs / 4000K / 5000 LUMENS DOWN	MVOLT	54		DARK BRONZE/ ALUMINUM	WALL	LED DRIVER	82T TRIM, 37 FINISH, WFL BEAM, 89, WB, WET LOCATION LABEL
L14E	SURFACE MOUNTED LED TAPE LIGHT	ACOLYTE "CHAS1-C-WH-RB-SWS220" SERIES JESCO "DL" SERIES KELVIX "502" SERIES	LENGTH AS INDICATED	LED / 3500K / 535 LUMENS/FT	277/24	4.4 WLF		WHITE	WALL IN LIGHTING COVE	LED DRIVER 0-10V DIMMING	IP20 RATING, 10, 12, 13, 15, 16, ASI CHANNEL, CLEAR LENS WD DISTRIBUTION, GZ10
L15	SURFACE MOUNTED VAPORTIGHT LED	LITHONIA "FEM LED" SERIES COLUMBIA "LXEM" SERIES ILLUMINA "BS100LED" SERIES	4'	LED / 3500K / 4000 LUMENS	MVOLT	24	LPPFL	FIBERGLASS	WALL	LED DRIVER	
X1	RECESSED CEILING MOUNTED SINGLE FACE EXIT	LITHONIA "EDGR" SERIES EMERGI-LITE "OW" SERIES MULE LIGHTING "CEL1" SERIES		RED LED	MVOLT	5		WHITE	RECESSED CEILING		R, EL, SD
X2	RECESSED CEILING MOUNTED DOUBLE FACE EXIT	LITHONIA "EDGR" SERIES EMERGI-LITE "OW" SERIES MULE LIGHTING "CEL2" SERIES		RED LED	MVOLT	5		WHITE	RECESSED CEILING		RMR, EL, SD
E1	WALL MOUNTED EMERGENCY LIGHT	LITHONIA "ELM6L" EMERGI-LITE "I2" SERIES MULE LIGHTING "TRS-HO" SERIES		LED 110 LUMENS	MVOLT	4		WHITE	WALL		LTP, SDRT

REMARKS:
 1. BI-LEVEL SWITCHING
 2. DAMP LOCATION
 3. WET LOCATION
 4. WIREGUARD
 5. LED REQUIRED SURGE PROTECTION
 6. FINAL COLOR SELECTION BY ARCHITECT
 7. AR TRIM, TRW TRIM, MWD DIST.
 8. NOT USED
 9. NOT USED
 10. TILT/ABLE STAND
 11. 0-10V NON-DIMMING DRIVER, RATING AS REQUIRED BY LOAD
 12. 0-10V DIMMING DRIVER(S), RATING AS REQUIRED BY LOAD
 13. END FEED BARE WIRE CONNECTION
 14. FACTORY ASSEMBLED
 15. FIELD ASSEMBLED
 16. PROVIDE 90 MINUTE BATTERY BACKUP FOR 100% FIXTURE OUTPUT
 17. LIGHTING FIXTURE MUST BE PROVIDED WITH B.U.G RATING OF U=0.

GENERAL NOTES:
 A. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.
 B. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.
 C. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.
 D. ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.
 E. THE ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM THE ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN.
 F. FIXTURES TO BE INSTALLED IN CEILINGS INDICATED ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE SHALL BE MANUFACTURER RATED "IC". PROVIDE SHROUDS AS NECESSARY FOR FIXTURES THAT ARE NOT "IC" RATED.
 G. ALL LIGHTING FIXTURES PENETRATING RATED FLOOR/CEILING ASSEMBLY SHALL BE PROVIDED WITH ACCESSORIES TO MAINTAIN ASSEMBLY FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL RATINGS.
 H. "NL" ADJACENT TO FIXTURE INDICATES AN UNSWITCHED 24 HOUR NIGHT LIGHT. THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED INDICATED CIRCUIT.
 I. LED MODULES SHALL BE REPLACEABLE.
 J. ACRYLIC PRISMATIC LENSES SHALL BE 0.125" NOMINAL MINIMUM THICKNESS.
 K. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.
 L. LED EMERGENCY BATTERY SHALL PROVIDE FULL RATED FIXTURE, 1400 MINIMUM LUMENS OUTPUT FOR 90 MINUTES MINIMUM.
 M. SEE SPECIFICATIONS SECTIONS 265100 AND 265200 FOR ADDITIONAL REQUIREMENTS.
 N. LIGHTING FIXTURES HAVE BEEN SELECTED AND SPECIFIED TO ACHIEVE REQUIRED/DESIRED ILLUMINATION LEVELS AND OTHER CHARACTERISTICS IN THEIR RESPECTIVE AREAS. SPECIFIED FIXTURES HAVE SPECIFIC CHARACTERISTICS WHICH MAY CREATE UNIQUE ILLUMINATION RESULTS ESSENTIAL TO THE PROJECT. LIGHTING FIXTURES PROVIDED SHALL MEET THE AESTHETICS, DETAILS, AND SPECIFICATIONS STATED ABOVE AND IN THE DIVISION 26 SPECIFICATIONS, AND MOUNTING HEIGHTS AND SPACINGS SHOWN ON THE DRAWINGS. ANY DEVIATIONS FROM THE SPECIFIED FIXTURES SHALL DEEM ALL PARTIES IN THE SUPPLY CHAIN AND CONTRACTOR RESPONSIBLE FOR PROVIDING DETAILED COMPARISONS OF THE SPECIFIED FIXTURE AND THE PROPOSED FIXTURE FOR ARCHITECT AND ENGINEER REVIEW IN DETERMINING EQUALITY. PROVIDE COMPLETE POINT BY POINT ILLUMINATION STUDIES FOR ALL SUBSTITUTIONS.
 P. SUBSTITUTIONS MAY BE APPROVED BY THE ARCHITECT AND ENGINEER IF THEY ARE JUDGED TO BE EQUAL TO THE SPECIFIED FIXTURES. "EQUAL" MAY INCLUDE, AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER, LENS MATERIAL AND CHARACTERISTICS, COLORS, REFLECTORS, HOUSING MATERIAL AND CONFIGURATION, FINISHES, PHOTOMETRICS, EFFICIENCY, OPTIONS, FUNCTIONALITY, ETC.

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2018 APPENDIX B BUILDING CODE SUMMARY
ELECTRICAL SUMMARY
ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:
 ENERGY CODE: PRESCRIPTIVE PERFORMANCE
 ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE

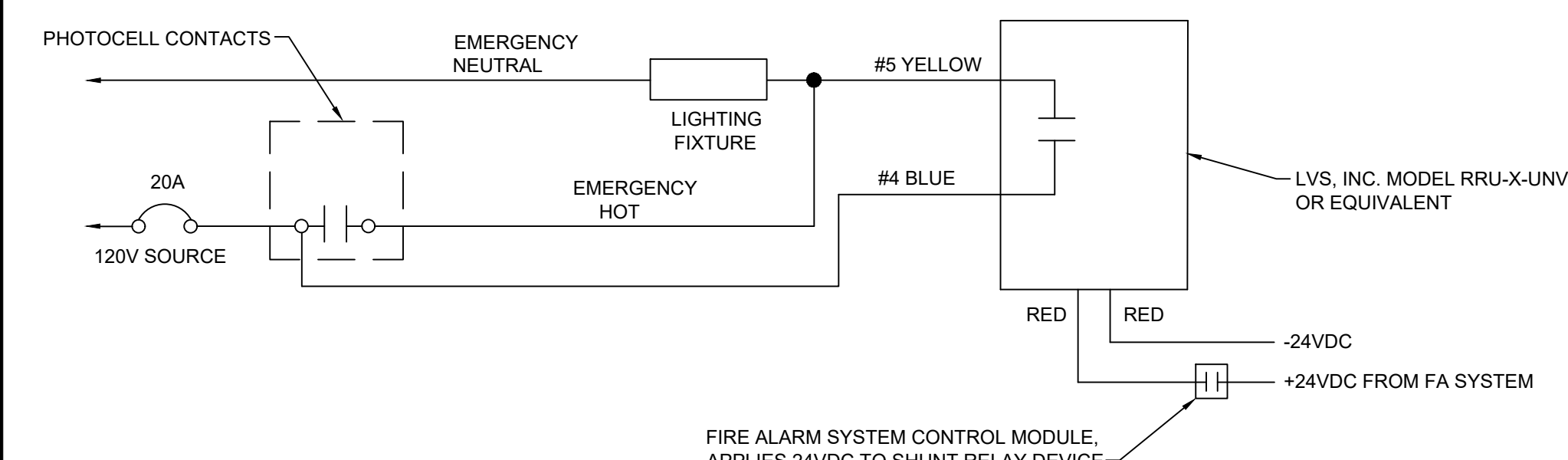
LIGHTING SCHEDULE (EACH FIXTURE TYPE)
 LAMP TYPE REQUIRED IN FIXTURE: SEE FIXTURE SCHEDULE
 NUMBER OF LAMPS IN FIXTURE: SEE FIXTURE SCHEDULE
 BALLAST TYPE USED IN THE FIXTURE: SEE FIXTURE SCHEDULE
 NUMBER OF BALLASTS IN FIXTURE: SEE FIXTURE SCHEDULE
 TOTAL WATTAGE PER FIXTURE: SEE FIXTURE SCHEDULE

TOTAL INTERIOR WATTAGE: (WHOLE BUILDING OR SPACE BY SPACE)
 ALLOWED = 13,872 WATTS
 ADDITIONAL 10% = 12,485 WATTS
 SPECIFIED = 6,127 WATTS

EXTERIOR ALLOWANCE: (TRADEABLE SURFACES)
 ALLOWED = 600 WATTS
 SPECIFIED = 342 WATTS

(NON-TRADEABLE SURFACES):
 ALLOWED = N/A WATTS
 SPECIFIED = N/A WATTS

ADDITIONAL PRESCRIPTIVE COMPLIANCE
 C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
 C406.3 REDUCED LIGHTING POWER DENSITY
 C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
 C406.5 ON-SITE RENEWABLE ENERGY
 C406.6 DEDICATED OUTSIDE AIR SYSTEM
 C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

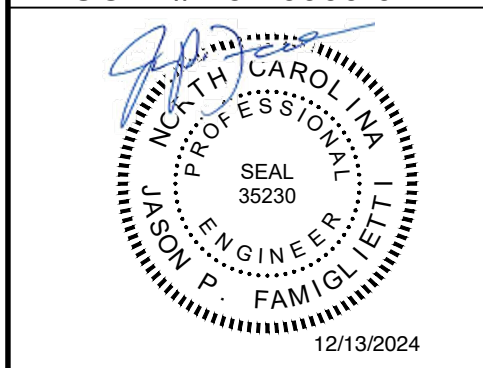


E4 EXTERIOR EGRESS LIGHTING SHUNT RELAY DETAIL
 NOT TO SCALE

mmh
BOWMAN
MURRAY
HEMINGWAY
 ARCHITECTS

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 Jacksonville, North Carolina 28546

REV. DATE DESCRIPTION
 12.13.24 ADDENDUM #2: City of Jacksonville review comments

REV.	DATE	DESCRIPTION
Project Manager	11-25-2024	Reviewed By JPF
Project ID		
Sheet Title		
ELECTRICAL SCHEDULES AND DETAILS		
Sheet No.		

E-0.9
 Addendum #2
 Attachment #6

SYMBOL	DESCRIPTION
	FIRE ALARM MANUAL STATION, 48" AFF
	FIRE ALARM HORN/STROBE DEVICE, 80" AFF, *15cd* INDICATES CANDELA RATING
	FIRE HORN (ONLY) DEVICE, 80" AFF
	FIRE ALARM HORN/STROBE DEVICE, CEILING MOUNTED, *15cd* INDICATES CANDELA RATING
	FIRE ALARM VISUAL (ONLY) DEVICE, 80" AFF, *15cd* INDICATES CANDELA RATING
	FIRE ALARM VISUAL (ONLY) CEILING MOUNTED *15cd* INDICATES CANDELA RATING
	FIRE ALARM BELL/STROBE, 80" AFF, *15cd* INDICATES CANDELA RATING
	HEAT DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, CEILING MOUNTED, WITH ELEVATOR RECALL FUNCTION
	DUCT MOUNTED SMOKE DETECTOR
	REMOTE INDICATING DEVICE (RAIL), WALL MOUNTED
	DOOR HOLD OPEN DEVICE BY G.C.
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	ISOLATION MODULE
	CONTROL MODULE
	CONTROL MODULE, WALL MOUNTED
	FIRE ALARM CONTROL PANEL (FACP)
	FIRE ALARM REMOTE ANNUNCIATOR PANEL
	GAS VALVE CONTROL MODULE
	END OF LINE RESISTOR (EOR)

(SYMBOLS SHOWN FOR REFERENCE ONLY AND MAY NOT IMPLY CONTRACTUAL REQUIREMENTS)

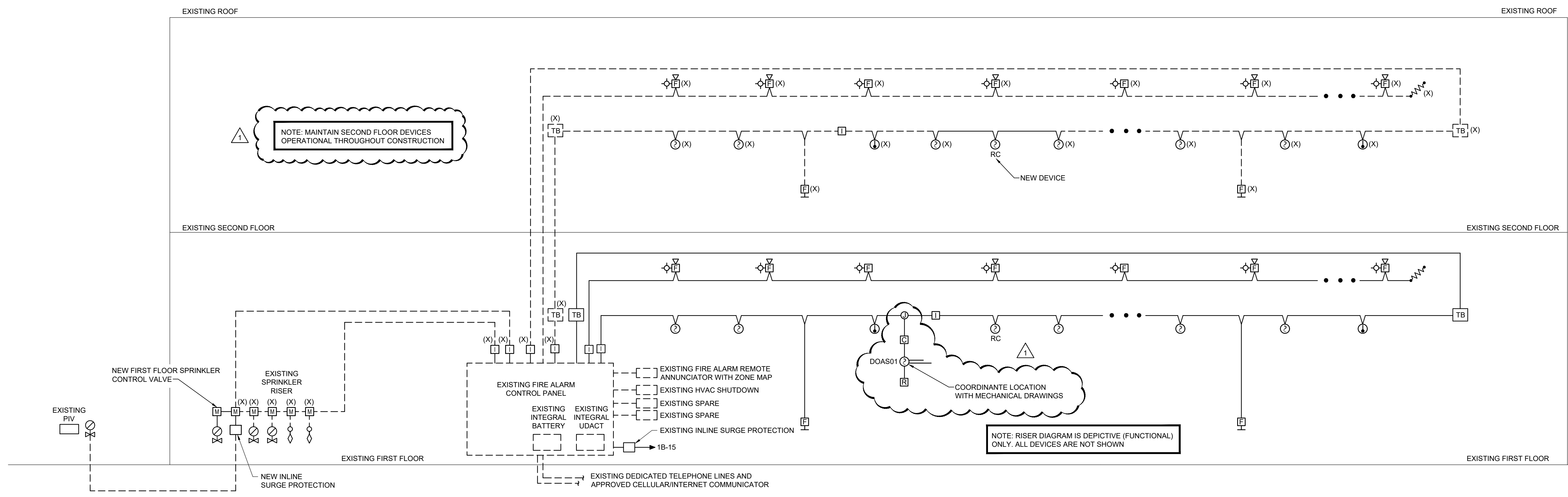
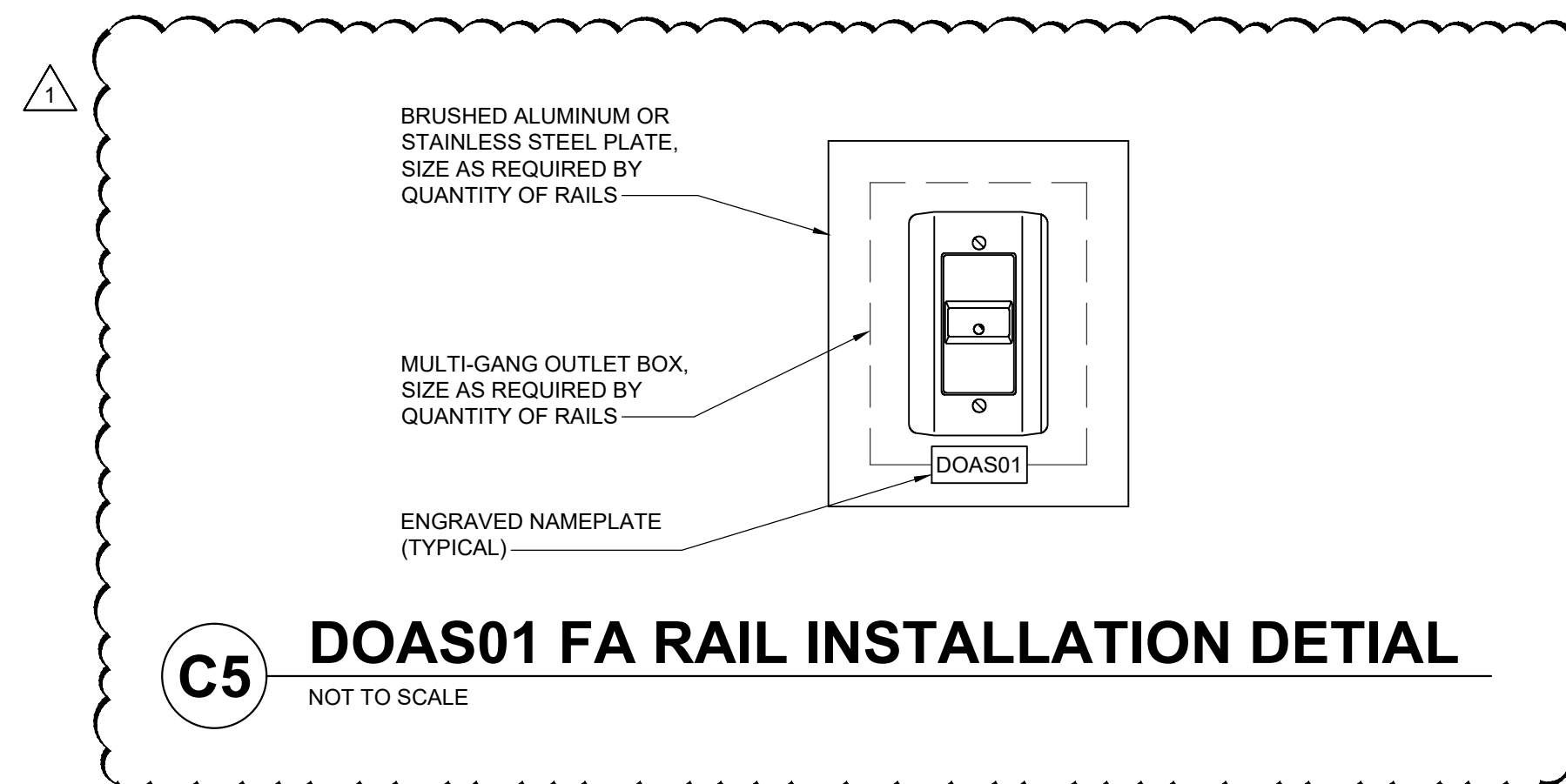
FIRE ALARM SYSTEM CONTROL MATRIX

SYSTEM INPUTS	SYSTEM OUTPUTS														
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE NOTIFICATION APPLIANCES	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ALARM SIGNAL TO MONITORING SERVICE	SUPERVISORY SIGNAL TO MONITORING SERVICE	TROUBLE SIGNAL TO MONITORING SERVICE	DISPLAY/PRINT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO CENTRAL STATION	RELEASE MAGNETICALLY HELD DOORS	RECALL ELEVATORS TO PRIMARY RECALL FLOOR	RECALL ELEVATORS TO ALTERNATE RECALL FLOOR	ACTIVATE FIRE HAT SIGNAL	SIGNAL HVAC CONTROL SYSTEM	SHUNT TRIP ELEVATOR FEEDER CIRCUIT BREAKER
SMOKE DETECTORS	X	X							X	X	X				
ELEVATOR SHAFT SMOKE DETECTORS	X	X	X						X	X	X	X		X	
HEAT DETECTORS	X	X	X						X	X	X			X	
ELEVATOR SHAFT HEAT DETECTORS	X	X	X						X	X	X	X		X	
DUCT MOUNTED SMOKE DETECTORS				X					X					X	
MANUAL PULL STATIONS	X	X		X					X	X				X	
SYSTEM TROUBLE CONDITION			X					X	X						
LOSS OF FACU AC POWER (NOTE 1)			X					X	X						
GROUND FAULT			X					X	X						
SHORT CIRCUIT			X					X	X						
OPEN CIRCUIT			X					X	X						
PRIMARY FLOOR ELEVATOR LOBBY RECALL SMOKE DETECTOR	X	X		X				X	X	X				X	
ALTERNATE FLOOR ELEVATOR LOBBY RECALL SMOKE DETECTOR	X	X		X				X	X	X				X	
SPRINKLER SYSTEM FLOW SWITCH (NOTE 5)	X	X		X				X	X	X				X	
STANDPIPE FLOW SWITCH (NOTE 5)	X	X		X				X	X						
FIRE PROTECTION PIPING HEAT TRACE				X				X	X						
SPRINKLER SYSTEM TAMPER SWITCH (NOTE 5)				X				X	X						
STANDPIPE TAMPER SWITCH (NOTE 5)				X				X	X						
SPRINKLER PRESSURE SWITCH (NOTE 5)				X				X	X						
STANDPIPE PRESSURE SWITCH (NOTE 5)				X				X	X						
PIV SUPERVISORY				X				X	X	X					
RPZ TAMPER SWITCH				X				X	X	X					
RPZ HOT BOX LOW TEMPERATURE				X				X	X	X					

- NOTES:
- ONLY AFTER LOSS OF POWER FOR > 3 HOURS.
 - ELEVATOR INPUTS AND OUTPUTS ARE TYPICAL FOR EACH ELEVATOR.
 - REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER DEVICE LOCATIONS.
 - REFER TO MECHANICAL DRAWINGS FOR DUCT MOUNTED SMOKE DETECTOR LOCATIONS.
 - TYPICAL, QUANTITIES OF DEVICES ARE NOT SHOWN. SEE FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS.

CBHF
Engineers, PLLC

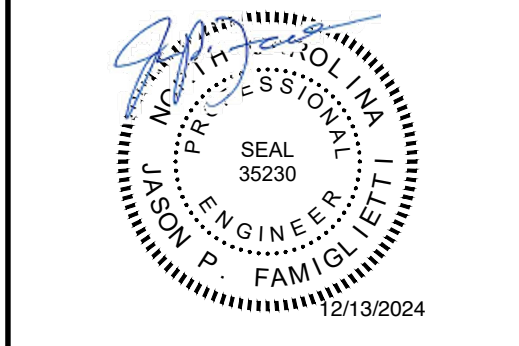
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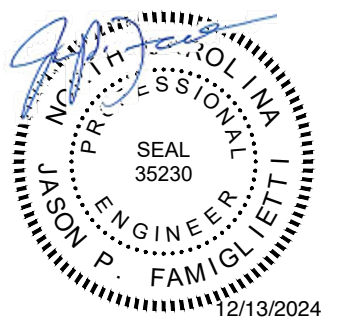
Coastal Carolina Community College
Learning Resource Center -
First Floor Renovation
444 Western Boulevard
Jacksonville, North Carolina 28546

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REV.	DATE	DESCRIPTION
Project Manager	Drawn By	WPJ
Date	11-25-2024	Reviewed By
Project ID		JPF

Sheet Title
FIRE ALARM LEGEND, MATRIX AND FUNCTIONAL FIRE ALARM RISER

Sheet No.
F0.1
Addendum #2
Attachment #7



Coastal Carolina Community College
Learning Resource Center -
First Floor Renovation
444 Western Boulevard
Jacksonville, North Carolina 28546

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REV.	DATE	DESCRIPTION
1	11-25-2024	Reviewed By JPF

Sheet Title
**FIRE ALARM
FIRST AND SECOND
FLOOR PLAN**

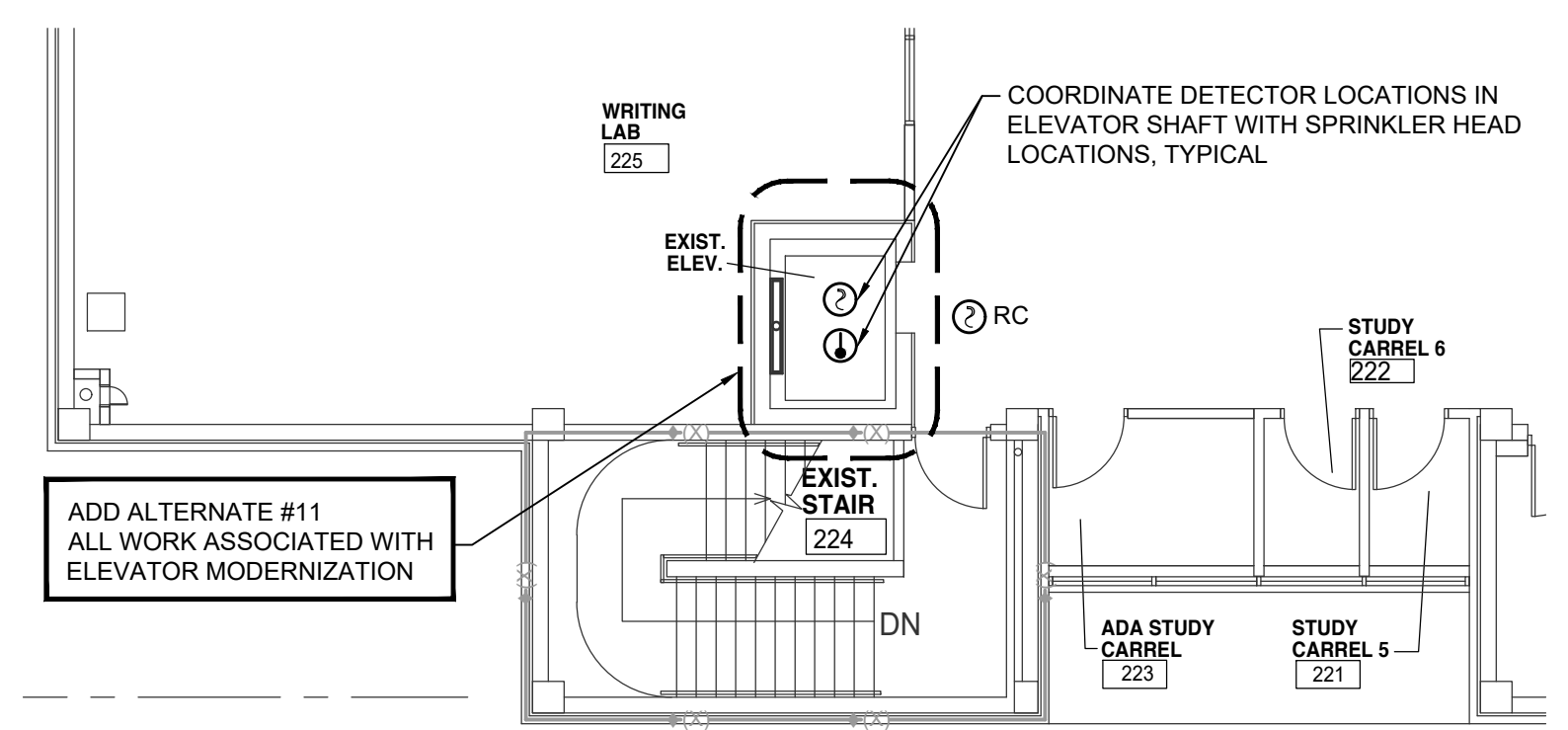
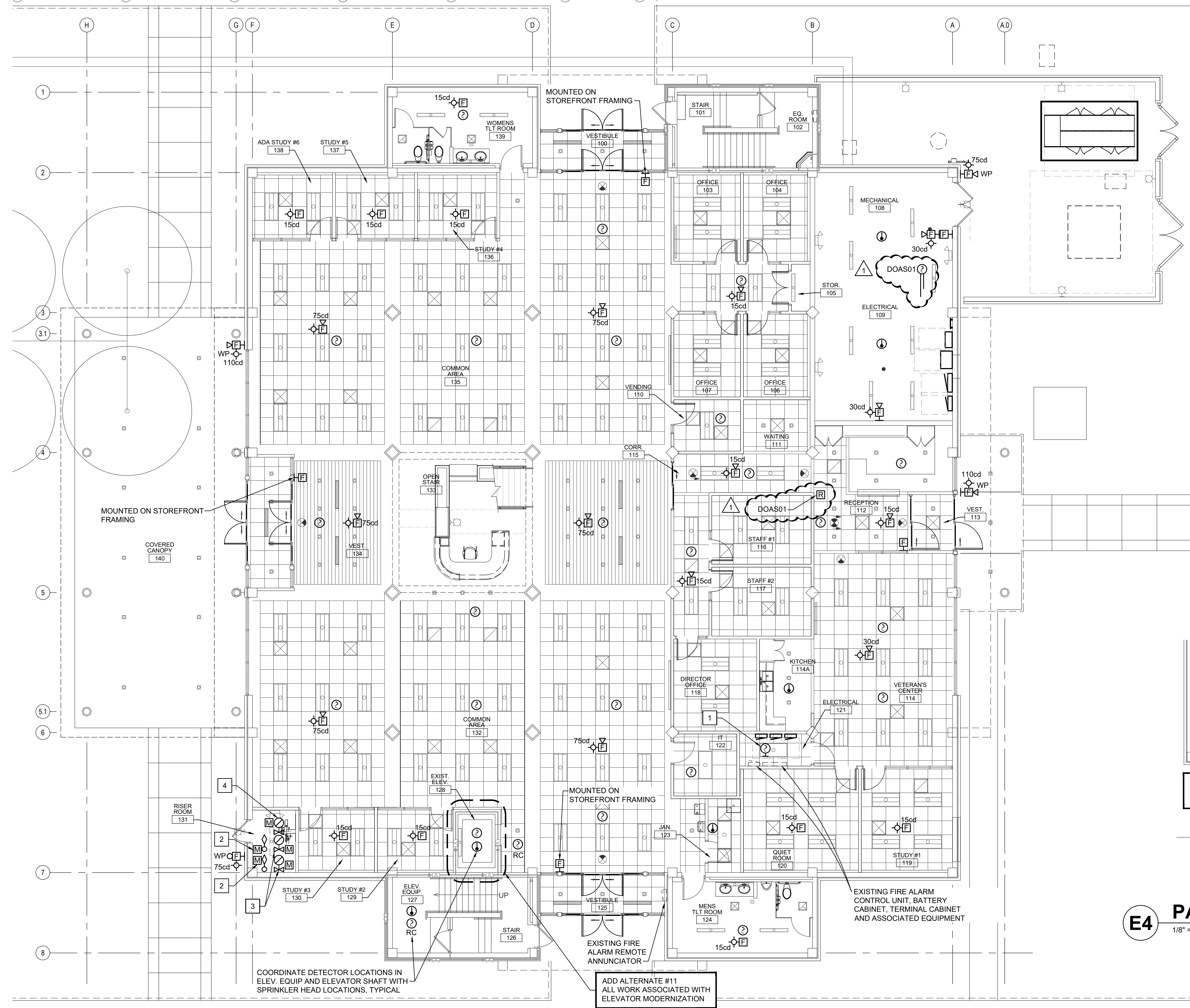
Sheet No.

F1.1

Addendum #2
Attachment #8

KEYED NOTES

1	EXISTING WALL MOUNTED SMOKE DETECTOR.
2	EXISTING SPRINKLER SYSTEM FLOW SWITCH AND MONITOR MODULE.
3	EXISTING SPRINKLER SYSTEM TAMPER SWITCH AND MONITOR MODULE.
4	NEW FIRST FLOOR SPRINKLER CONTROL VALVE AND MONITOR MODULE.



E4 PARTIAL SECOND FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

E1 FIRST FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

