

20 September 2022

Addendum 1

Columbus County Courthouse

The following addendum shall supersede previous information and does hereby become part of the contract documents.

- Contract time for this project has been extended from 365 days to 450 consecutive calendar days, with a \$500 a day liquidated damages.
- Clarification: bathroom tile shall be covered in the allowances, see specifications section 01020.
- Knox box will be required, see sheet G-2.1.
- Please note on the First Floor Main Corridor 102, 115, 109, 129, and 101 there are sections of chair rail that is missing that will need to be replaced to match existing. The remaining chair rail to remain.
- Please note on the First Floor Existing Main Corridors 102, 115, 109, 129, and 101 the existing wood base will remain, but please note that a few sections of existing wood base are missing and will need to be replaced with wood base to match the surrounding conditions.
- In areas where crown moulding is called to remain 102, 115, 109, 129, and 101, please note any missing pieces shall be replaced to match existing surrounding conditions.
- Clarification: The existing HVAC units are to be removed.
- See detail BD-1 and BD-2 for new attic access ladder in lieu of the attic access ladder shown on drawings.
- Where 5/8" Azek PVC sheet are called out for, 1/2" Azek sheets are acceptable.
- Clarification: Please note that the drop-down screens and projections in the Courtroom on sheet A-2.1 are part of the A/V allowance. See specifications 01020.
- Please note that the new plywood in the existing attic access is the responsibility of the Contractor. Windows are allowed to be removed for access, but the Contractor shall be responsible for all damages.
- The LVP vinyl planks section of specs was missing, see attached spec section 09660.
- The new brick at the Mechanical Yard shall be chosen by the samples to be submitted by the Contractor. Brick shall be similar to the exterior brick of Courthouse walls. The Contractor shall include in their bid a \$500/Thousand allowance for brick in this area.
- The following testing will need to be provided by the Contractor: concrete testing.
- Please see attached revised fire alarm plan, sheets FA1.0, FA2.0, FA2.1, and FA2.2, showing smoke detection system.
- Clarification: Contractor shall clean out all debris from crawl space area for installation of encapsulation system for the crawl space area.
- Please note that the chimney is to be sealed with brick sealer.
- Please see attached BD-3 for information on structure modifications over the Bailiff area.
- The Contractor shall include in their bid allowance of 250sf of soffit rot replacement.
- Contractor shall note that Veterans Ceremony is planned at the building on November 11, 2022, and the County should have access to the building at that time.

- Clarification: Contractor should include in their bid an allowance of \$10,000 for brick pointing to be directed by the Architect.
- The Contractor shall include termite treatment in the base bid.
- See attached specs section 16100.
- Clarification: The Owner will provide all landscaping, but the original lawn should be maintained in good condition throughout the project.
- Signage allowance: revise to \$20,000.00 material and labor.
- See BD-4 for clarification of installation on new door 113A with existing vault frame to remain.
- See BD-5 for additional hardwood floor repair/replacement required (this is in addition to the allowance).
- Clarification: All new and existing wood base to receive new quarter round moulding – painted.
- Clarification: All transoms new and existing to be fixed.
- Clarification: Window W5 glazing to be ¼" obscure glazing.
- Drawing sheet A-3, Room Finish Schedule: 110 Vestibule and 113 Vestibule flooring to be new brick pavers – see sheet A-8.5.
- Clarification: Remove all existing plumbing piping not required for the new installation. Cap all unused branch lines at mains so as not to create dead ends.

End of Addendum 1

SECTION 09660 - VINYL PLANKS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Vinyl Planks

1.2 SUBMITTALS

- A. Comply with the requirements of section 01340.
- B. Product Data: Submit technical data from each manufacturer of resilient products required.
- C. Initial Samples: Submit manufacturer's standard color selection samples for resilient products required, including all available colors and patterns.

1.3 PROJECT CONDITIONS

- A. Environmental Requirements: At least 48 hours prior to beginning work, move resilient flooring materials to areas of installation and maintain at minimum 70 degrees F until 48 hours after completing installation and at minimum 55 degrees F thereafter.
- B. Sequencing: Do not begin installation of resilient flooring products until painting has been completed for each area.
- C. Existing Conditions: Do not install resilient flooring on concrete substrates until testing has been conducted to assure that moisture levels are acceptable.

1.4 MAINTENANCE

- A. Extra Materials: At time of completing installation, deliver stock of maintenance materials to the owner. Furnish products matching those actually installed, packaged for storage and clearly labeled.
- B. Vinyl planks: 10 planks of each variety.

PART 2 - PRODUCTS

2.1 VINYL PLANK

- A. Mannington Commercial, Nature's Path Select Plank
- B. Colors to match existing in new addition.

2.2 MISCELLANEOUS ACCESSORIES

- A. Resilient Edge Strips: Solid rubber or vinyl edging, in tapered or rounded profile, nominally 1 inch in width and 1/8 inch in thickness.
- B. Color: Matching flooring.
- C. Adhesive: Type recommended by manufacturer of resilient product for specific substrate conditions.

2.3 COLORS AND PATTERNS

- A. Provide colors and patterns of resilient flooring materials as selected by the architect from manufacturer's standard product line.

PART 3 - EXECUTION

3.1 GENERAL INSTALLATION REQUIREMENTS

- A. Comply with manufacturer's published recommendations for installation in each area, extending resilient flooring into spaces which are partially concealed. Cut and fit tightly to fixtures, pipes, and other obstructions, as well as to walls and partitions.
- B. Tightly adhere resilient flooring to substrate with no open joints or cracks, and without raised or blistered areas. Spread adhesive evenly, so that final installation will be without telegraphed markings from adhesive or substrate.
- C. Verify conditions ready to receive all work of this section. Do not proceed until unsatisfactory conditions are corrected.

3.2 TILE INSTALLATION

- A. Layout: Establish center of each space and lay tile from center point, so tiles at each edge will be not less than 1/2 tile and equal in width.
- B. Matching: In each space, use tiles from same production run, and lay tiles in same sequence as removed from cartons. Discard broken, chipped, or otherwise damaged tiles.
- C. Lay tile square to room axis.
- D. Lay tile to achieve monolithic appearance, with pattern in all tiles oriented in same direction.

3.3 INSTALLATION OF MISCELLANEOUS ACCESSORIES

- A. Resilient Edge Strips: At locations shown on drawings, or where otherwise required to protect edge of resilient flooring, install resilient edge strips securely with recommended adhesive, to achieve tightly butted joint.

3.4 CLEANING

- A. Initial Cleaning: Remove excess and waste materials promptly and sweep or vacuum clean resilient flooring as soon as installation has been completed in each area. After adhesive has had adequate time to set, mop each area with damp mop and mild detergent.
- B. Final Cleaning: Remove scuff marks, excess adhesive, and other foreign substances, using only cleaning products and techniques recommended by manufacturer of resilient products. The contractor shall provide final waxing and buffing at the completion of the project.
- C. Provide Owner with manufacturer's standard cleaning procedures.

END OF SECTION 09660

SECTION 16100 - RACEWAYS, BOXES AND CABINETS

PART I - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes Raceways, Fittings, Boxes, Enclosures and Cabinets for Electrical Wiring.

PART II - PRODUCTS

2.1 METAL CONDUIT AND TUBING

- A. Rigid Steel Conduit: ANSI C80.1
- B. Intermediate Metal Conduit: ANSI C80.6
- C. Electrical Metallic Tubing and Fittings: ANSI C80.3 with compression-type fittings.
- D. Flexible Metal Conduit: Zinc coated steel
- E. Liquid tight Flexible Metal Conduit: Flexible steel conduit with PVC jacket.
- F. Fittings: NEMA FB 1, compatible with conduit/tubing materials.
- G. Non-Metallic Rigid Conduit: Schedule 40 pvc as where shown on the drawings.
- H. "MC" type cable.

2.2 OUTLET AND DEVICE BOXES

- A. Sheet Metal Boxes: NEMA OS 1
- B. Cast Metal Boxes: NEMA FB 1, type FD, cast alloy box with gasketed cover

2.3 PULL AND JUNCTION BOXES

- A. Small Sheet Metal Boxes: NEMA OS 1.
- B. Cast Metal Boxes: NEMA FB 1, cast aluminum with gasketed cover.
- C. Pull Boxes: Code gauge steel with screw type removable cover. NEMA rated for the condition.

PART III - EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to receive raceways, boxes, enclosures, and cabinets for compliance with installation tolerances and other conditions affecting performance of the raceway system. Do not proceed with installation until unsatisfactory conditions have been corrected.

- 3.2 MINIMUM CONDUIT SIZE: (unless indicated otherwise) on the drawings conduit shall be sized as follows:
- A. Indoors: The minimum conduit size shall be 1/2".
 - 1. Flexible metal conduit may be used for tap connection to recessed lighting fixtures.
 - B. Outdoors: Branch circuit conduit installed below grade to exterior equipment shall be one (1) inch minimum unless noted otherwise.
- 3.3 WIRING METHODS: Unless noted otherwise on the drawings the following materials shall be used:
- A. Outdoors: Use the following wiring methods:
 - 1. Exposed: Rigid or intermediate metal conduit.
 - 2. Underground: Galvanized Rigid Conduit.
 - 3. Connection to Vibrating Equipment (including transformers and hydraulic, pneumatic, or electric solenoid or motor-driven equipment): Liquid tight flexible metal conduit.
 - 4. Boxes and Enclosures: NEMA Type 3R or Type 4.
 - B. Indoors: Use the following wiring methods:
 - 1. Connection to Vibrating Equipment (including transformers and hydraulic, pneumatic, or electric solenoid or motor-driven equipment): Flexible metal conduit, except in wet or damp locations use liquid tight flexible metal conduit.
 - 2. Damp or Wet Locations: Rigid steel conduit.
 - 3. Exposed: Electrical metallic tubing above 8 feet and rigid metallic conduit below eight (8) feet.
 - 4. Concealed: Electrical metallic tubing or MC cable.
 - 5. Boxes and Enclosures: NEMA Type 1, except in damp or wet locations use NEMA Type 3R, unless otherwise noted.
- 3.4 INSTALLATION
- A. Telephone/Data/Cable TV outlet boxes shall be 2 gang with appropriate trim and cover. Coordinate cover plates with Owner.
 - B. Provide insulated bushings for all conduit ends.
 - C. Conceal rigid conduit and EMT, unless otherwise indicated, within finished walls, ceilings, above attic space and below floors.
 - D. Keep raceways at least 6 inches (150 mm) away from parallel runs of flues and steam or hot water pipes. Install horizontal raceway runs above water and steam piping.
 - E. Install raceways level and square and at proper elevations. Provide adequate headroom.

- F. Complete raceway installation before starting conductor installation.
- G. Use temporary closures to prevent foreign matter from entering raceway.
- H. Protect stubs from damage where conduits rise through floor slabs. Arrange so curved portion of bends is not visible above the finished slab.
- I. **Where non-metallic conduit is shown to be used below the slab provide rigid conduit to turn up into the building space or at all exterior walls, poles or equipment.**
- J. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings, except as otherwise indicated.
- K. Run concealed raceways with a minimum of bends in the shortest practical distance considering the type of building construction and obstructions, except as otherwise indicated. Where the number of bends exceed the total number required by the N.E.C., provide pull boxes as required by code.
- L. Install raceways parallel to or at right angles to surfaces or structural members, and follow the surface contours as much as practical.
 - 1. Run parallel or banked raceways together, on common supports where practical.
 - 2. Make bends in parallel or banked runs from same centerline to make bends parallel. Use factory elbows only where they can be installed parallel; otherwise, provide field bends for parallel raceways.
- M. Join raceways with fittings designed and approved for the purpose and make joints tight.
 - 1. Use bonding jumpers where joints cannot be made tight.
 - 2. Use insulating bushings to protect conductors.
 - 3. Provide expansion joint fittings where required for the raceway used.
- N. IMC and GRC shall terminate with either a double locknut/bushing set or in a threaded hub.
- O. Where conduit type "LB" fittings are used all conduits on conduits over 2" in size shall be "MOGAL" type.
- P. **"EMT" connectors shall be steel plated hexagonal compression type only. Do not use pot metal, set-screw, or indenter type connectors.**
- Q. Where concentric, eccentric, or oversized knockouts are encountered, a grounding-type insulated bushing shall be provided.
- R. Where conduits of any type pass over a building expansion joint, a standard "expansion joint" fitting, compatible with the type raceway, shall be provided.
- S. Terminations: Where raceways are terminated with locknuts and bushings, align the raceway to enter squarely and install the locknuts with dished part against the box. Where terminations cannot be made secure with one locknut, use two locknuts, one inside and one outside the box.

- T. Where terminating in threaded hubs, screw the raceway or fitting tight into the hub so the end bears against the wire protection shoulder. Where chase nipples are used, align the raceway so the coupling is square to the box and tighten the chase nipple so no threads are exposed.
- U. Install pull cords in all empty raceways. Use monofilament plastic line having not less than 200-lb (90 kg) tensile strength. Leave not less than 12 inches (300 mm) of slack at each end of the pull cord.
- V. Telephone and Signal System Raceways 2 Inch Trade Size and Smaller: In addition to the above requirements, install in maximum lengths of 150 feet (45 m) and with a maximum of two 90-degree bends or equivalent. Install pull or junction boxes where necessary to comply with these requirements. Pull boxes shall be a minimum of 10" square x 6" deep with removable cover.
- W. Install raceway sealing fittings at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points and elsewhere as indicated:
1. Where conduits enter or leave hazardous classified locations.
 2. Where conduits pass from warm locations to cold locations, such as exterior spaces and air-conditioned spaces.
 3. Where otherwise required by the NEC.
- X. Stub-Up Connections: Extend conduits through concrete floor a minimum of 6" for connection to freestanding equipment. Extend conductors to equipment with flexible metal conduit. Where equipment connections are not made under this Contract verify the length of the flexible connectors.
- Y. Flexible Connections: Use maximum of 6 feet (1830 mm) of flexible conduit for recessed and semi-recessed lighting fixtures; for equipment subject to vibration, noise transmission, or movement; and for all motors. Use liquid tight flexible conduit in wet or damp locations. Install separate ground conductor.
- AA. Provide grounding connections for raceway, boxes and components. Tighten connectors and terminals according to tightening torques specified in UL Standard 486A.
- BB. All underground raceways shall be identified by "UNDERGROUND LINE MARKING TAPE" located directly above the raceway at 6" below finished grade. Tape shall be permanent, bright-colored, continuous, magnetic strip, printed, plastic tape compounded for direct burial not less than 6" wide and 4 mils thick. Printed legend shall be indicative of the service it is marking. Provide sufficient tape not less than 2/3 of the width of the item marked for the full length of the Raceway.
- CC. Where underground raceways are required to turn up into cabinets, equipment, etc., and on to poles, the elbow required and the sub-up out of the slab or earth shall be rigid steel.
- DD. Where shown to be used on the drawings PVC non-metallic conduit used exterior to the building for grouped circuits it shall be encased in a minimum of 3" of 3000 psi rated concrete. Concrete encased non-metallic ducts shall be supported on plastic separators coordinated with duct size and spacing. Separators shall be spaced close enough to prevent sagging and deforming of ducts. Secure separators to the earth and to ducts to prevent floating during placement of concrete. Do not use steel or tie wires in such a way

to form conductive or magnetic loops around ducts or duct groups.

- EE. The Raceway System shall not be relied on for grounding continuity. A green grounding conductor, properly sized per NEC Table 250-122, shall be run in all power raceways.
- FF. Where non-metallic conduit is allowed on the drawings all bends and off-sets shall be made by approved mechanical benders per the manufacturers instruction. Any conduit not in compliance will be removed.

3.5 PROTECTION

- A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, to ensure that coatings, finishes, and cabinets are without damage or deterioration at Substantial Completion.
 - 1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
 - 2. Repair damage to paint finishes with matching touch-up coating recommended by the manufacturer.

3.6 CLEANING

- A. Upon completion of installation of system, including outlet fittings and devices, inspect exposed finish. Remove burrs, dirt and construction debris and repair damaged finish, including chips.

END OF SECTION 16100



2 NEW ATTIC LADDER DETAIL
BD-2 SCALE: N.T.S.

LMP		22½ x 56½	25 x 56½	30 x 56½
Manufacturer's part number		869331	869332	869333
Rough opening	AxB	22 ½" x 56 ½"	25" x 56 ½"	30" x 56 ½"
Ceiling height	H	9'10" - 12'		
Outside frame dimensions		22" x 56"	24 ½" x 56"	29 ½" x 56"
Internal frame dimensions		20 ½" x 54 ¾"	22 7⁄8" x 54 ¾"	28" x 54 ¾"
Projection	R	77 ¾"		
Landing space	C	57 ¾"		
Folded ladder height	K	12 5⁄8"		
Frame height		7 7⁄8"		
Approx. Weight (lbs)		102	108	114

1 NEW ATTIC LADDER DIMENSION SHEET
BD-2 SCALE: N.T.S.



REVISIONS



MODIFIED FIRST FLOOR
PLAN

2003123

ISSUED: 09/19/22

DWG BY: TRA

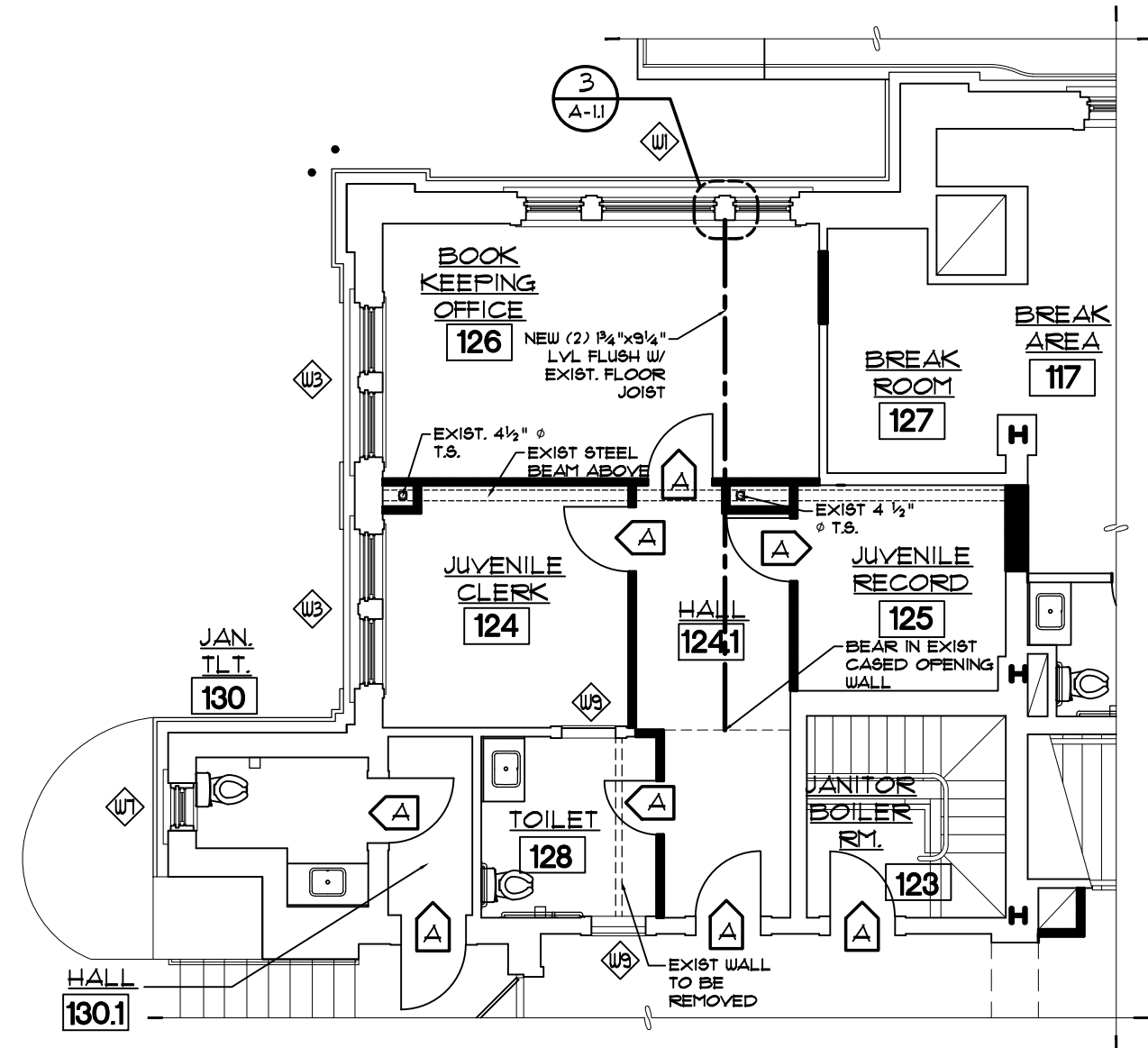
CKD BY: LLD

REVISIONS

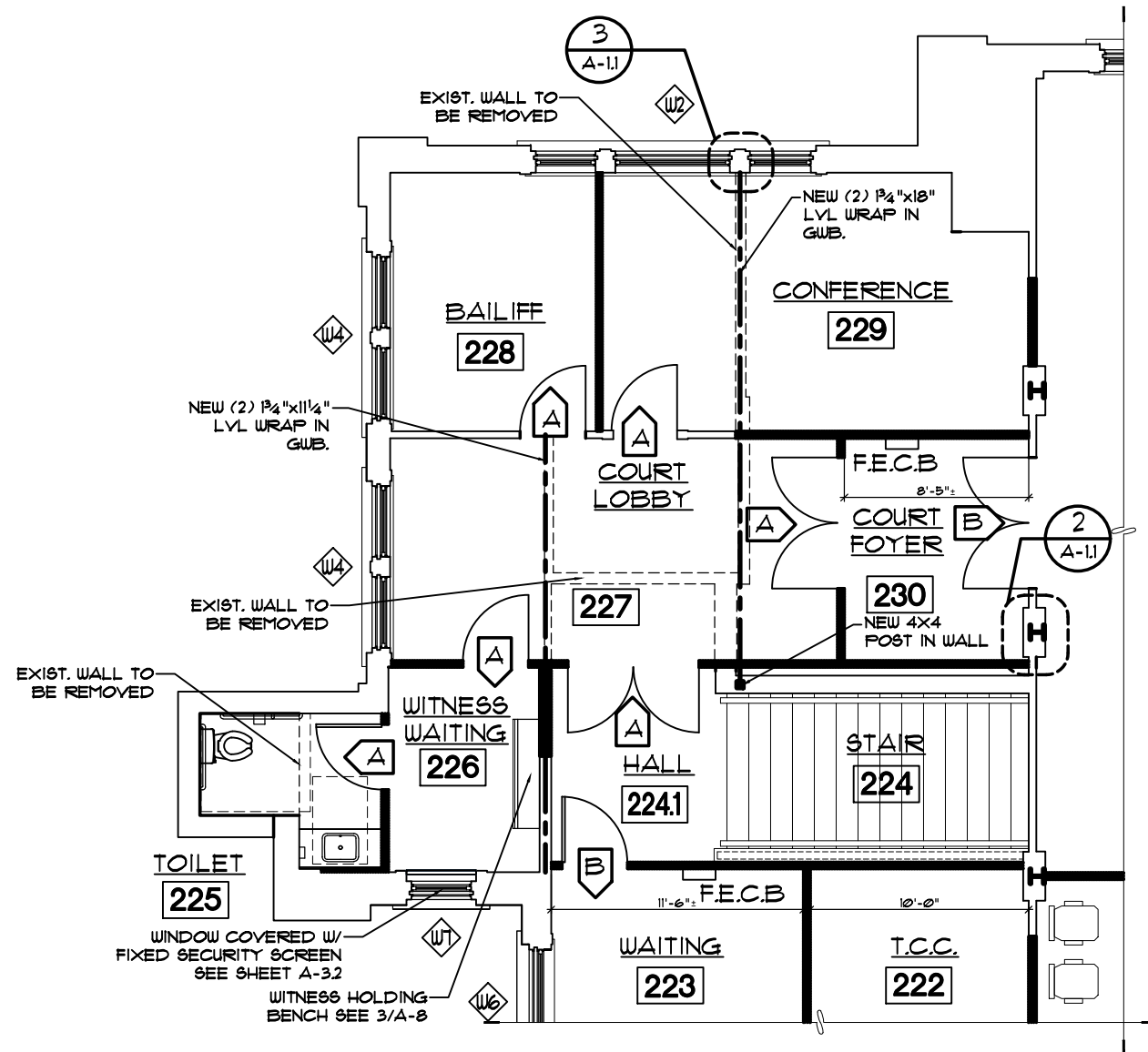
SHEET NO.

BD-3

OF



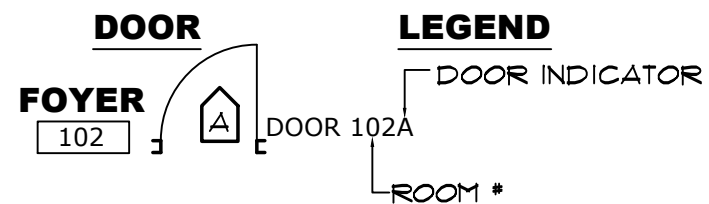
1 MODIFIED FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



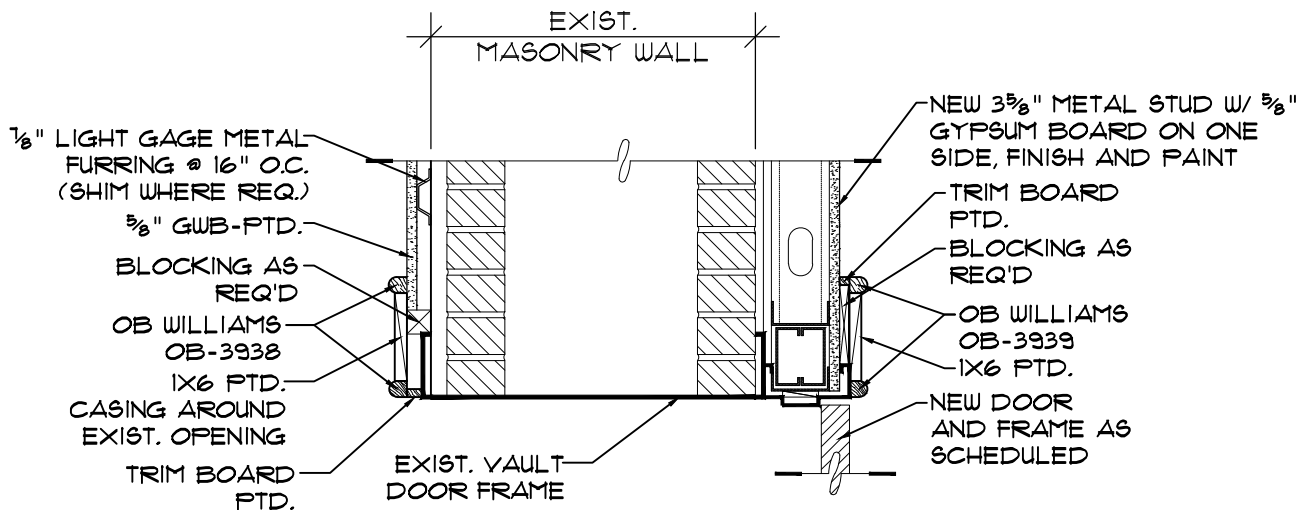
2 MODIFIED SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

WALL SCHEDULE

	EXISTING WALL FRAMING.
	NEW 3 5/8" METAL STUDS U.O.N. (WHERE INFILLING EXISTING WALLS - FIELD VERIFY THICKNESS REQ'D)



**COLUMBUS COUNTY COURTHOUSE
113 COURTHOUSE SQ.
WHITEVILLE, NORTH CAROLINA**



DOOR DETAIL @ 113A
SCALE: N.T.S. = 1' - 0"



CIVIL DEPARTMENT
DOOR DETAIL

19035

ISSUED: 09/19/2022

DWG BY: TRA

CKD BY: LDD

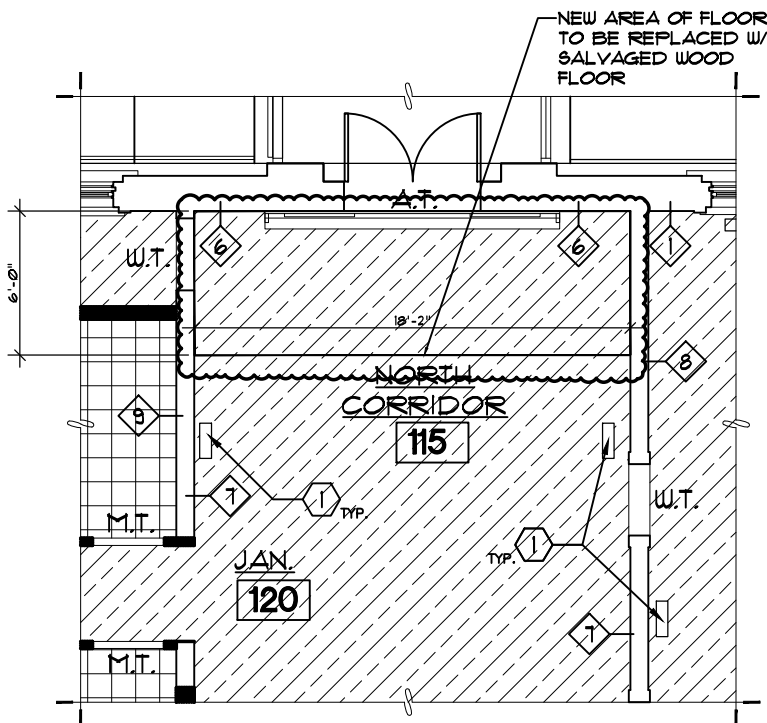
REVISIONS

SHEET NO.

BD-4
OF

WOOD FLOOR REPAIR NOTES:

THE CONTRACTOR SHALL PUT IN HIS BID COST TO REPLACE 1000 SF. OF EXIST. WOOD FLOOR WHERE INDIVIDUAL PIECES ARE DAMAGED OR MISSING. ARCHITECT AND CONTRACTOR TO TO CONFIRM ON SITE THESE AREAS OF REPAIR. ANY FLOOR AREAS ALREADY SPECIFIED TO BE REPAIRED SHALL NOT BE INCLUDED IN THIS 1000 SF. ESTIMATE.



DOOR DETAIL @ 113A
SCALE: 1/8" = 1'-0"



- Architectural Design
- Planning
- Interiors



Lee D. Dixon, Jr., AIA
282-247-2127
lee@coastalarchitecture.net

4206 Bridges St. Ext.,
Suite C
Morehead City, NC
28557

www.CoastalArchitecture.net

COLUMBUS COUNTY COURTHOUSE
113 COURTHOUSE SQ.
WHITEVILLE, NORTH CAROLINA



MODIFIED FIRST FLOOR
FINISH PLAN

19035

ISSUED: 09/19/2022

DWG BY: TRA

CKD BY: LDD

REVISIONS

SHEET NO.

BD-5
OF

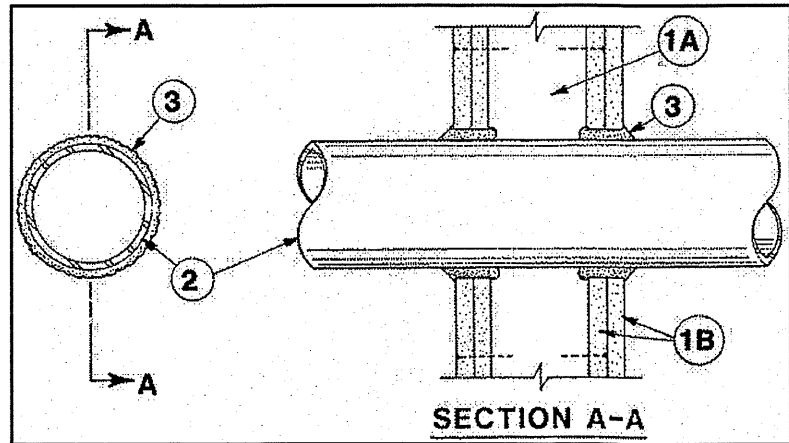
System No. W-L-1001

F Ratings --- 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings --- 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient --- less than 1 CFM/sq ft

L Rating At 400 F --- less than 1 CFM/sq ft



1. **Wall Assembly** --- The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** --- Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber and plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. **Gypsum Boards** --- Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 28 in.

2. **Through-Penetrant** --- One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** --- Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** --- Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. **Conduit** --- Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical metallic tubing.

D. **Copper Tubing** --- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe** --- Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

F. **Through Penetrating Products** --- **Flexible Metal Piping** --- The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITFLEX

3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG LLC

Fill, Void or Cavity Material --- **Caulk or Sealant** --- Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in	F RATING Hr	T RATING Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
8	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

3M COMPANY --- CP 25WB+ or FB-3000 WT.

*Bearing the UL Classification Mark

DIVISION 16 - FIRE ALARM

PART 1 - GENERAL

1.1 DESCRIPTION OF THE WORK

A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:

1. Fire alarm panel, wiring and devices

B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.

C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:

1. The 2017 National Electrical Code.
2. NFPA 72
3. Underwriter's Laboratories, Inc., Standards and approved listings.
4. Electrical Testing Laboratories standards.
5. North Carolina Building Code, Latest Edition and Revisions.
6. All local codes and ordinances.

D. The Fire Alarm Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work

E. Obtain all permits, licenses, inspections, etc., required for the work and pay for the same. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.

F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Fire Alarm Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.

B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 SHOP DRAWINGS

A. Provide complete shop drawings per NFSPC section 907.1.2 to the local fire marshal prior to start of construction including:

1. Floorplan with room names
2. Location of all FA devices
3. Location of panels
4. Power connections
5. Battery calculations
6. Conductors types and sizes
7. Voltage drop calculations
8. Equipment cut-sheets, model numbers, etc.

PART 2 - PRODUCTS AND MATERIALS

2.1 GENERAL

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacture of the required type of equipment and the manufacturer's latest approved design.

1. Boxes installed in concealed locations shall be set flush with the finished surfaces.
2. Provide rated boxes in all fire barriers & walls installed per code.

PART 3 - EXECUTION

3.1 FIRE ALARM SYSTEM EQUIPMENT

A. Provide a complete operable fire alarm system as shown on the drawings and as required by State, and Local codes.

B. The main control panel is existing. The unit is an addressable type. Verify spare capacity is available prior to bid. Expand as required.

C. Provide a remote key test switch for the duct detectors. Locate as directed by the local AHJ.

D. All fire alarm system cables shall be installed in conduit. Size as required by the equipment supplier. Provide a submittal of all devices and a riser diagram for approval before installation of any equipment.

E. The return air smoke detectors will be furnished by the E.C. to the HVAC contractor for installation. The HVAC contr shall be responsible for the shut down of all AHU'S. The E.C. shall be responsible for all connections to the fire alarm controller.

3.2 CLEAN UP

A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

3.3 GUARANTEE

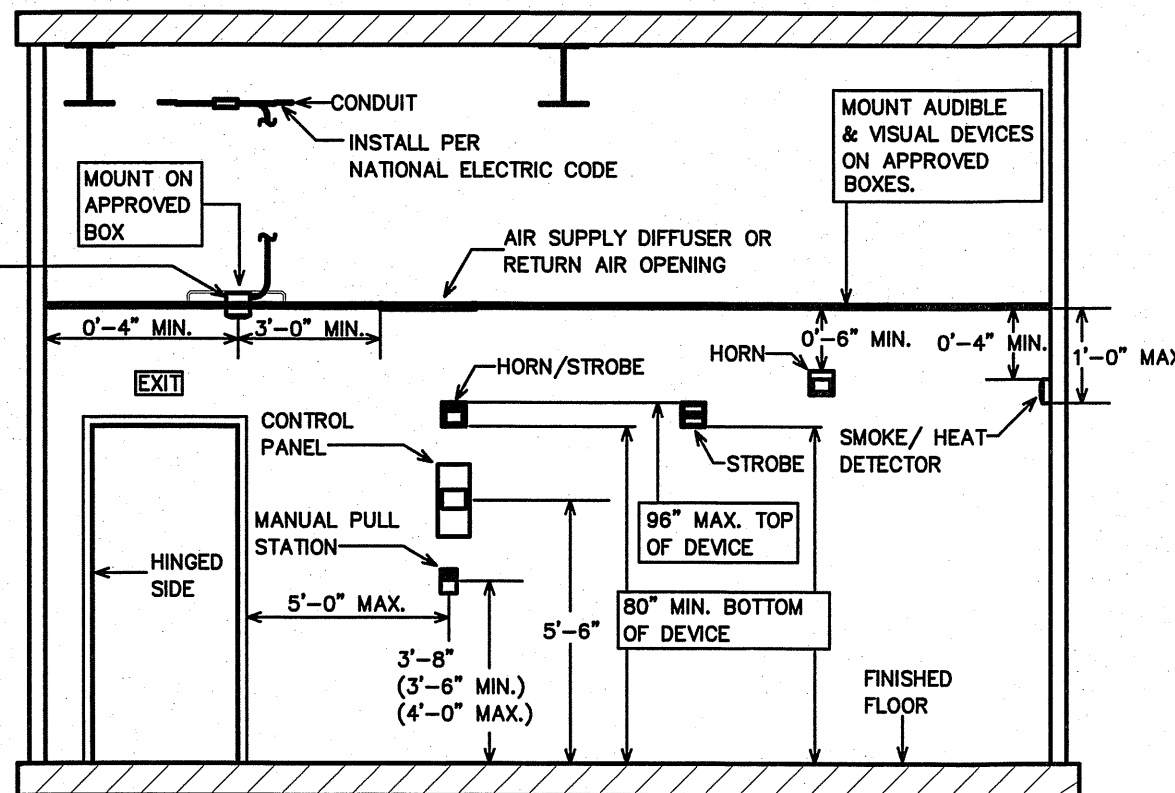
A. Guarantee all materials and labor included in the fire alarm work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.

FIRE ALARM LEGEND

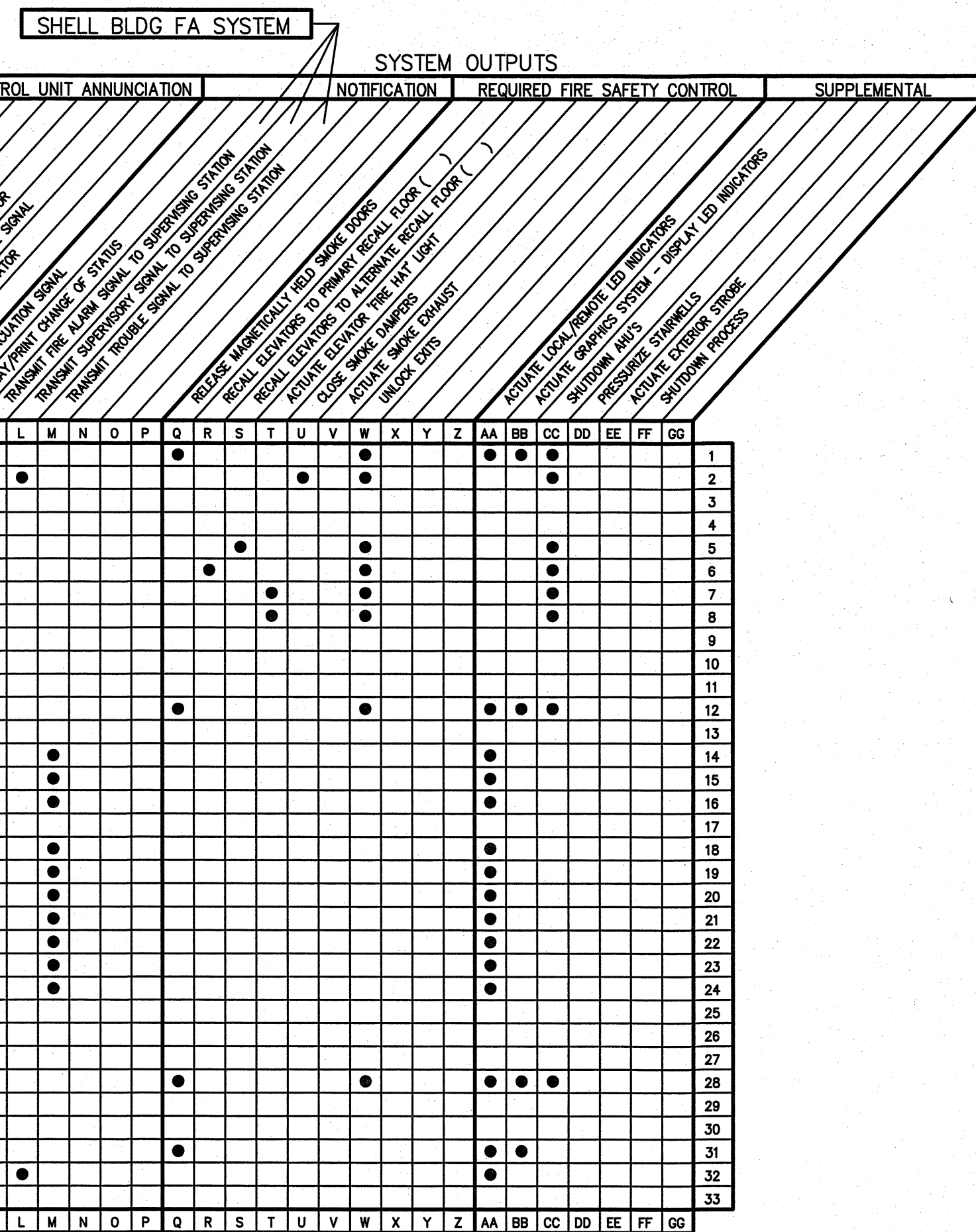
- ▽/xx HORN/STROBE SIGNALING DEVICE
(xx) CANDELLA RATING; (S) INDICATES STROBE-ONLY
- PULL STATION
- ⊙ SMOKE DETECTOR
- SD DUCT SMOKE DETECTOR
- FA-1 FIRE ALARM CONTROL PANEL

SYSTEM INPUTS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	
1 SMOKE DETECTORS																																		1
2 IN-DUCT SMOKE DETECTORS																																		2
3 LINEAR BEAM SMOKE DETECTORS																																		3
4																																		4
5 ELEVATOR (PRI) SMOKE/THERMAL DETECTORS																																		5
6 ELEVATOR (ALT) SMOKE/THERMAL DETECTORS																																		6
7 ELEVATOR MECH ROOM SMOKE/THERMAL DETECTORS																																		7
8 ELEVATOR FITS SMOKE/THERMAL DETECTORS																																		8
9 THERMAL DETECTORS																																		9
10																																		10
11																																		11
12 PULL STATIONS																																		12
13																																		13
14 LOOP OPEN/SHORT CIRCUIT																																		14
15 LOOP GROUND FAULT																																		15
16 LOOP FAILURE																																		16
17																																		17
18 NAC OPEN/SHORT CIRCUIT																																		18
19 NAC GROUND FAULT																																		19
20 NAC FAILURE																																		20
21 LOSS OF AC POWER (<6 HR)																																		21
22 LOSS OF AC POWER (>6 HR)																																		22
23 BATTERY/CHARGER FAILURE																																		23
24 LOW BATTERY																																		24
25																																		25
26																																		26
27 KITCHEN HOOD FIRE SUPPRESSION SYSTEM																																		27
28																																		28
29																																		29
30																																		30
31 SPRINKLER WATER FLOW																																		31
32 SPRINKLER TAMPER SWITCHES																																		32
33																																		33



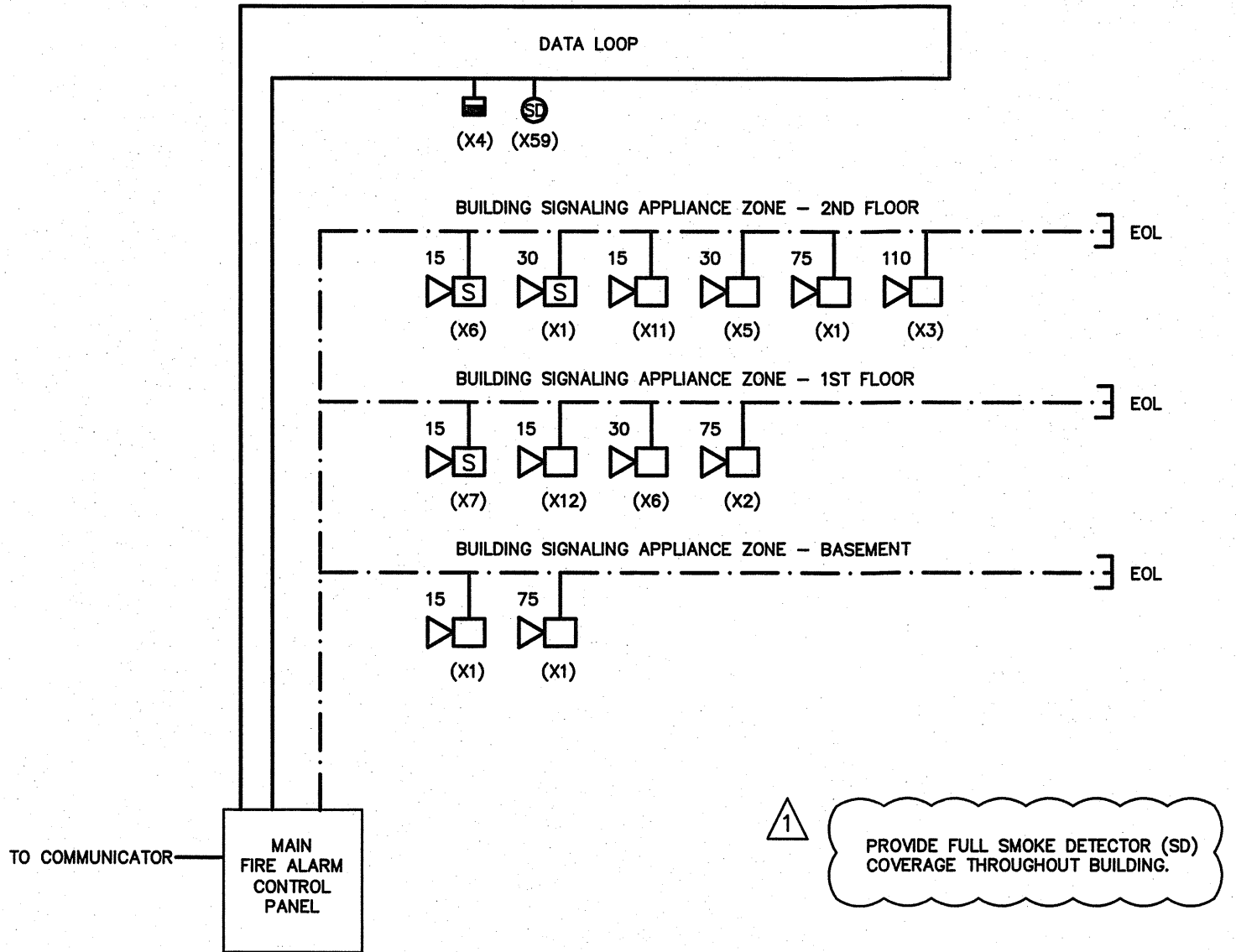
1 FA-1 SCALE: NTS



SEE PLAN FOR ACTUAL LOCATIONS OF DEVICES

VERIFY EXACT FIRE ALARM REQUIREMENTS WITH OWNER PRIOR TO SUBMITTING BID.

PROVIDE OR RELOCATE END-OF-LINE RESISTORS AS NEEDED FOR A CLASS B SYSTEM.



2 SCALE: NTS

ENGINEER

BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 778-0826
email: ben@bdg-nc.com
Corp. License # C-2652

Coastal
Architecture
P.L.L.C.
Architectural
Design
Planning
Interiors

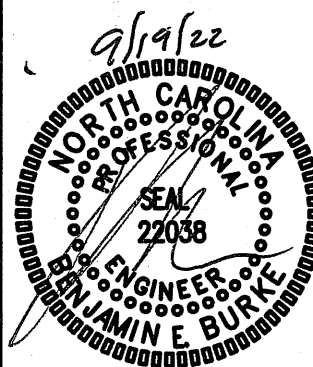


Member of the American
Institute of Architects

Lee D. Dixon, Jr., AIA
252.444.1121
lco@coastalarchitecture.net

4206 Bridges St. Ext.,
Suite C
Morehead City, NC
28557
www.CoastalArchitecture.net

COLUMBUS COUNTY COURTHOUSE
113 COURTHOUSE SQ.
WHITEVILLE, NORTH CAROLINA



FIRE ALARM
SPECS 1 RISER

19035

ISSUED: 8/15/2022

DWG BY: RM

CKD BY: BEB

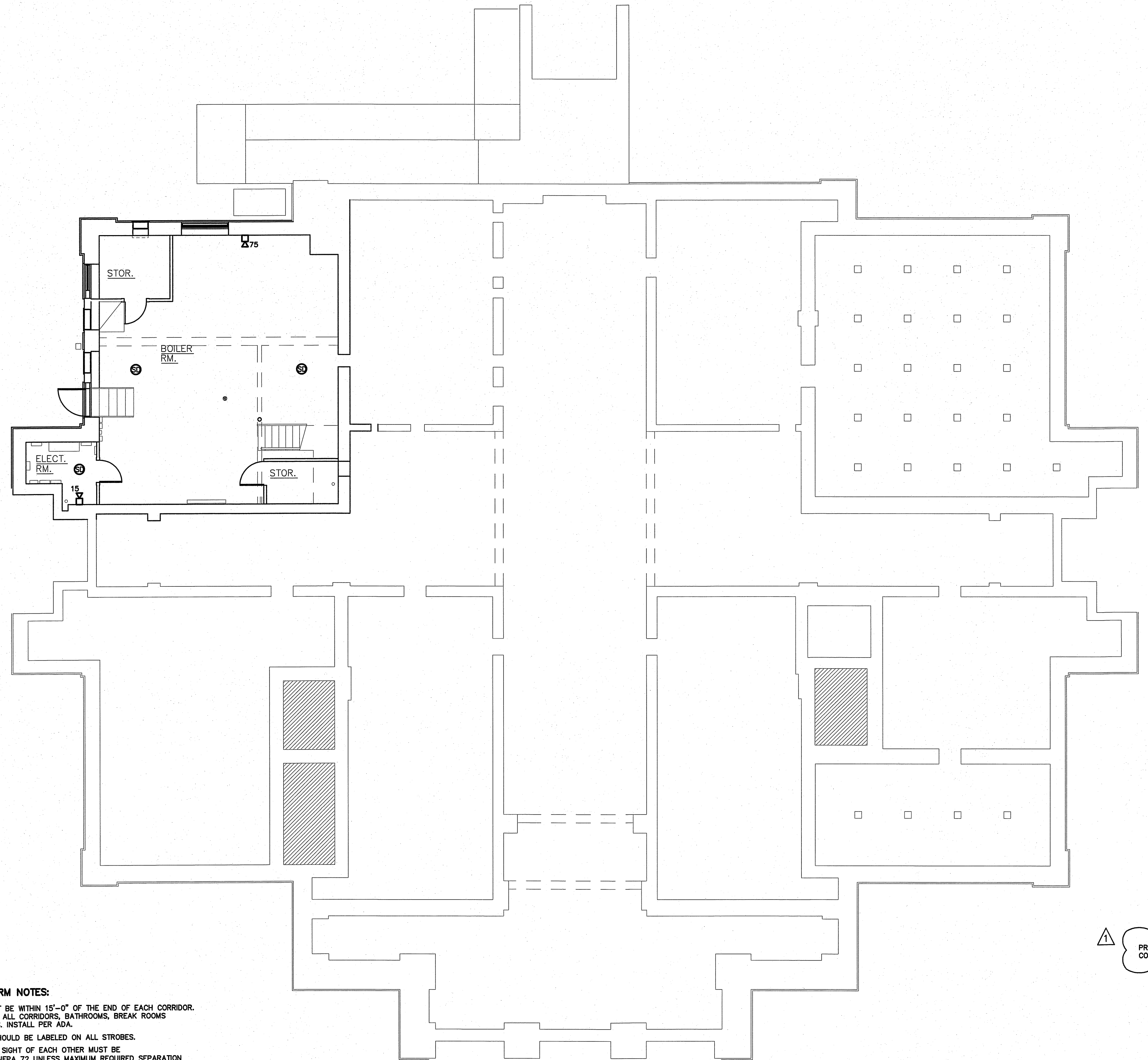
REVISIONS

9/19/2022

SHEET NO.

FA-1.0

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM SHELL PERMIT DRAWINGS.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS.
NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.



- GENERAL FIRE ALARM NOTES:**
- 1 HORN/SROBES MUST BE WITHIN 15'-0" OF THE END OF EACH CORRIDOR. PROVIDE STROBES IN ALL CORRIDORS, BATHROOMS, BREAK ROOMS AND STORAGE AREAS. INSTALL PER ADA.
 - 2 CANDELA RATINGS SHOULD BE LABELED ON ALL STROBES.
 - 3 ALL STROBES WITHIN SIGHT OF EACH OTHER MUST BE SYNCHRONIZED PER NFPA 72 UNLESS MAXIMUM REQUIRED SEPARATION IS OBTAINED.
 - 4 THE MAIN FIRE ALARM PANEL IS LOCATED IN THE CLERKS OFFICE. VERIFY.
 - 5 VERIFY THAT A SD IS ADJACENT TO THE FACP.
 - 6 ALL EXPOSED WIRE SHALL BE IN CONDUIT. PLENUM RATED CABLE MAY BE USED WHERE CONCEALED IN ALL AREAS EXCEPT ASSEMBLY AREAS. ALL WIRING IN ASSEMBLY AREAS MUST BE IN CONDUIT.
 - 7 ALL DEVICES, PANELS, ETC MUST BE BY SAME MANUFACTURER AND COMPATIBLE PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE SYSTEM MEETING ALL CODES.
 - 8 ALL WORK MUST MEET NFPA 72 AND APPLICABLE LOCAL CODES AND ORDINANCES. COORDINATE THE INSTALLATION WITH THE LOCAL FIRE MARSHALL.
 - 9 MOUNT WALL-MOUNT HORN STROBES SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.
 - 10 MOUNT MANUAL PULL STATIONS SUCH THAT THE OPERABLE PART OF THE DEVICE IS NOT LESS THAN 42" AFF AND NOT MORE THAN 54" AFF.

BASEMENT FA PLAN
SCALE: 1/8"=1'-0"

NOTE:
VERIFY HEIGHT/LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.
PROVIDE DUCT SMOKE DETECTORS WITH ALL HVAC EQUIP OVER 5 TONS IN SIZE (EXISTING & NEW).

ENGINEER
BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 779-0828
email: ben@bdg-nc.com
Corp. License # C-2652

Coastal
Architecture
P.L.L.C.

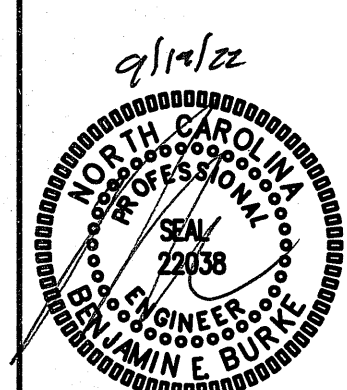
Architectural
Design
Planning
Interiors

ATA
Member of the American
Institute of Architects

Lee D. Dixon, Jr., AIA
252-547-2127
lee@coastalarchitecture.net

4206 Bridges St. Ext.,
Suite C
Morehead City, NC
28557
www.CoastalArchitecture.net

COLUMBUS COUNTY COURTHOUSE
113 COURTHOUSE SQ.
WHITEVILLE, NORTH CAROLINA



BASEMENT
FIRE ALARM PLAN

19035

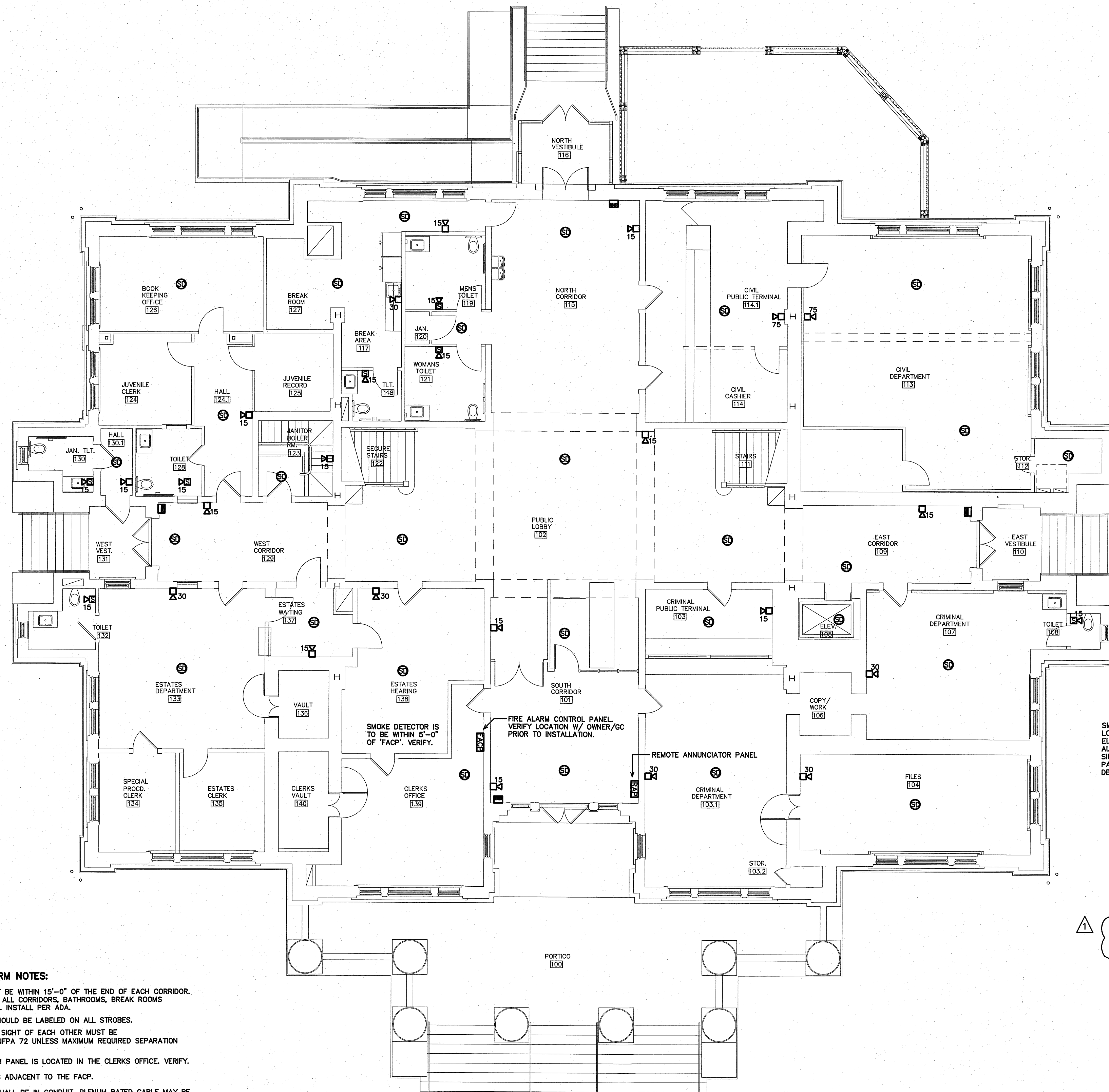
ISSUED: 8/15/2022
DWG BY: RM
CKD BY: BEB

REVISIONS
9/19/2022

SHEET NO.
FA-2.0

COLUMBUS COUNTY COURTHOUSE
113 COURTHOUSE SQ.
WHITEVILLE, NORTH CAROLINA

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM SHELL PERMIT DRAWINGS.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS.
NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.



SMOKE DETECTORS ARE REQUIRED IN EACH ELEVATOR LOBBY WHEN ACTIVATED THEY SHALL PUT ELEVATOR IN THE FIREMANS RECALL OPERATION. ALL DETECTORS SHALL BE TIED TOGETHER TO ALARM SIMULTANEOUSLY. THE CONTRACTOR SHALL PROVIDE A SMALL PANEL IF REQUIRED FOR PROPER OPERATION. PROVIDE ALL DEVICES REQUIRED FOR A COMPLETE SYSTEM.

PROVIDE FULL SMOKE DETECTOR (SD) COVERAGE THROUGHOUT BUILDING.

GENERAL FIRE ALARM NOTES:

1. HORN/STROBES MUST BE WITHIN 15'-0" OF THE END OF EACH CORRIDOR. PROVIDE STROBES IN ALL CORRIDORS, BATHROOMS, BREAK ROOMS AND STORAGE AREAS. INSTALL PER ADA.
2. CANDELA RATINGS SHOULD BE LABELED ON ALL STROBES.
3. ALL STROBES WITHIN SIGHT OF EACH OTHER MUST BE SYNCHRONIZED PER NFPA 72 UNLESS MAXIMUM REQUIRED SEPARATION IS OBTAINED.
4. THE MAIN FIRE ALARM PANEL IS LOCATED IN THE CLERKS OFFICE. VERIFY.
5. VERIFY THAT A SD IS ADJACENT TO THE FACP.
6. ALL EXPOSED WIRE SHALL BE IN CONDUIT. PLENUM RATED CABLE MAY BE USED WHERE CONCEALED IN ALL AREAS EXCEPT ASSEMBLY AREAS. ALL WIRING IN ASSEMBLY AREAS MUST BE IN CONDUIT.
7. ALL DEVICES, PANELS, ETC MUST BE BY SAME MANUFACTURER AND COMPATIBLE PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE SYSTEM MEETING ALL CODES.
8. ALL WORK MUST MEET NFPA 72 AND APPLICABLE LOCAL CODES AND ORDINANCES. COORDINATE THE INSTALLATION WITH THE LOCAL FIRE MARSHALL.
9. MOUNT WALL-MOUNT HORN STROBES SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.
10. MOUNT MANUAL PULL STATIONS SUCH THAT THE OPERABLE PART OF THE DEVICE IS NOT LESS THAN 42" AFF AND NOT MORE THAN 54" AFF.

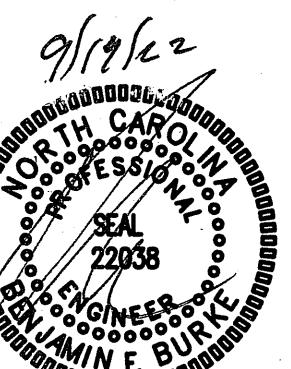
FIRST FLOOR FA PLAN

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

NOTE:
VERIFY HEIGHT/LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.
PROVIDE DUCT SMOKE DETECTORS WITH ALL HVAC EQUIP OVER 5 TONS IN SIZE (EXISTING & NEW).

ENGINEER

BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 779-0826
email: ben@bdg-nc.com
Corp. License # C-2652



FIRST FLOOR
FIRE ALARM PLAN

19035

ISSUED: 8/15/2022

DWG BY: RM

CKD BY: BEB

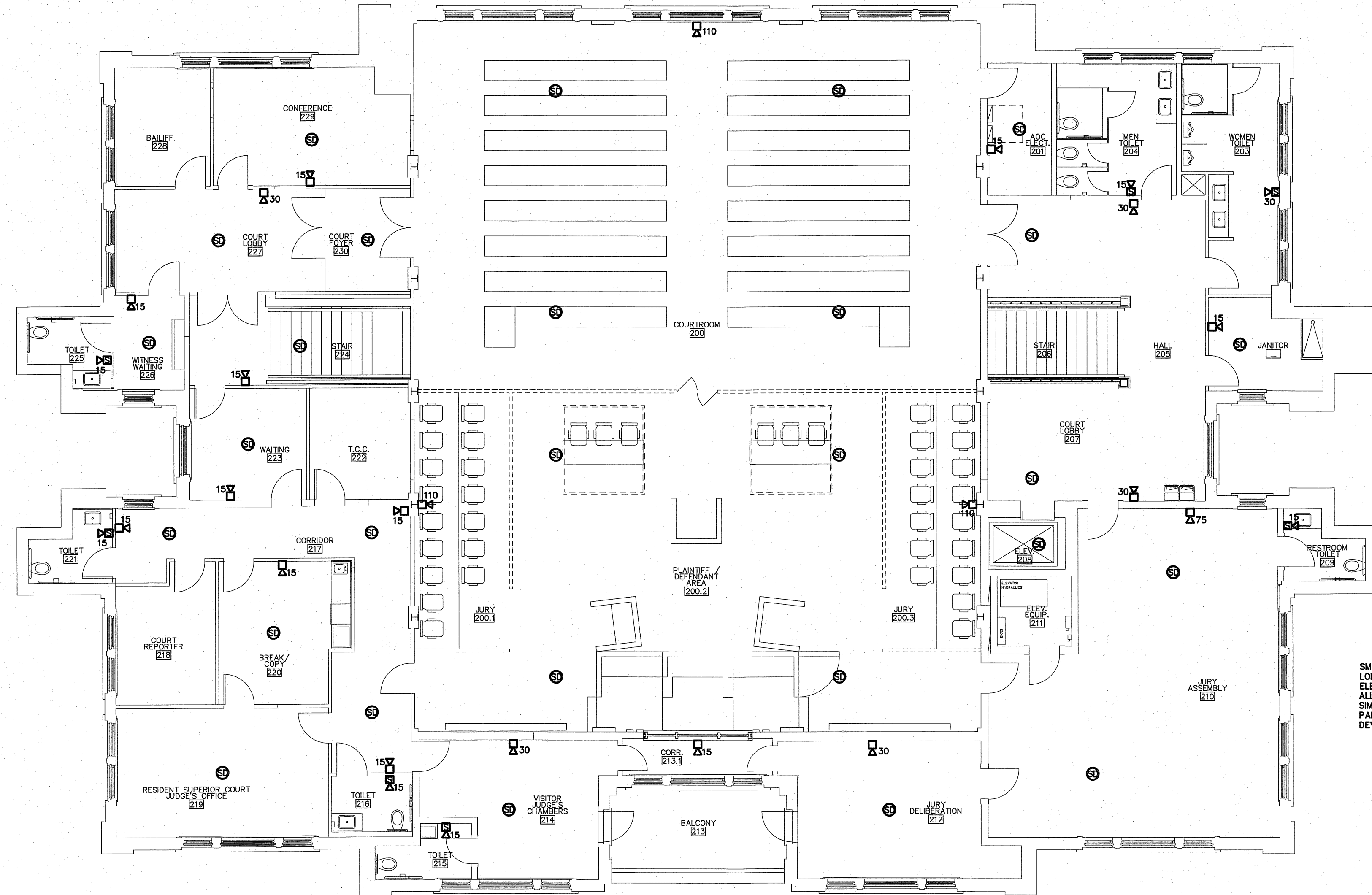
REVISIONS

9/19/2022

SHEET NO.

FA-2.1

NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM SHELL PERMIT DRAWINGS.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS.
NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.



SMOKE DETECTORS ARE REQUIRED IN EACH ELEVATOR LOBBY WHEN ACTIVATED THEY SHALL PUT ELEVATOR IN THE FIREMANS RECALL OPERATION. ALL DETECTORS SHALL BE TIED TOGETHER TO ALARM SIMULTANEOUSLY. THE CONTRACTOR SHALL PROVIDE A SMALL PANEL IF REQUIRED FOR PROPER OPERATION. PROVIDE ALL DEVICES REQUIRED FOR A COMPLETE SYSTEM.

PROVIDE FULL SMOKE DETECTOR (SD) COVERAGE THROUGHOUT BUILDING.

GENERAL FIRE ALARM NOTES:

- HORN/STROBES MUST BE WITHIN 15'-0" OF THE END OF EACH CORRIDOR. PROVIDE STROBES IN ALL CORRIDORS, BATHROOMS, BREAK ROOMS AND STORAGE AREAS. INSTALL PER ADA.
- CANDELA RATINGS SHOULD BE LABELED ON ALL STROBES.
- ALL STROBES WITHIN SIGHT OF EACH OTHER MUST BE SYNCHRONIZED PER NFPA 72 UNLESS MAXIMUM REQUIRED SEPARATION IS OBTAINED.
- THE MAIN FIRE ALARM PANEL IS LOCATED IN THE CLERKS OFFICE. VERIFY.
- VERIFY THAT A SD IS ADJACENT TO THE FACP.
- ALL EXPOSED WIRE SHALL BE IN CONDUIT. PLENUM RATED CABLE MAY BE USED WHERE CONCEALED IN ALL AREAS EXCEPT ASSEMBLY AREAS. ALL WIRING IN ASSEMBLY AREAS MUST BE IN CONDUIT.
- ALL DEVICES, PANELS, ETC MUST BE BY SAME MANUFACTURER AND COMPATIBLE. PROVIDE ALL ITEMS REQUIRED FOR A COMPLETE SYSTEM MEETING ALL CODES.
- ALL WORK MUST MEET NFPA 72 AND APPLICABLE LOCAL CODES AND ORDINANCES. COORDINATE THE INSTALLATION WITH THE LOCAL FIRE MARSHALL.
- MOUNT WALL-MOUNT HORN STROBES SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.
- MOUNT MANUAL PULL STATIONS SUCH THAT THE OPERABLE PART OF THE DEVICE IS NOT LESS THAN 42" AFF AND NOT MORE THAN 54" AFF.

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

NOTE:
VERIFY HEIGHT/LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.
PROVIDE DUCT SMOKE DETECTORS WITH ALL HVAC EQUIP OVER 5 TONS IN SIZE (EXISTING & NEW).