MTC- CE BUILDING RENOVATION
HARBISON CAMPUS
OSE PROJECT #H59-6330-PD
BID DOCUMENTS
09.15.25

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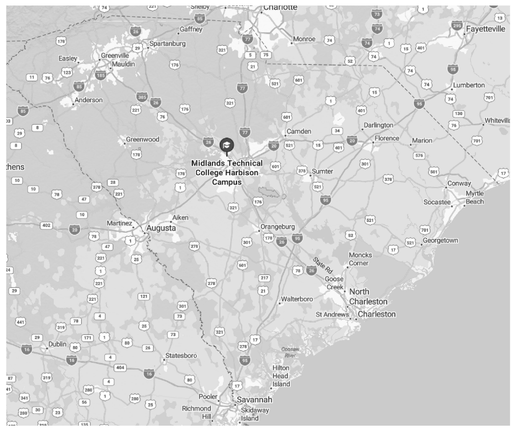
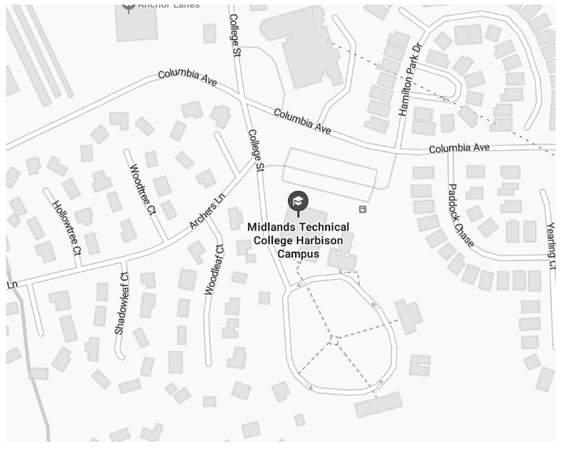
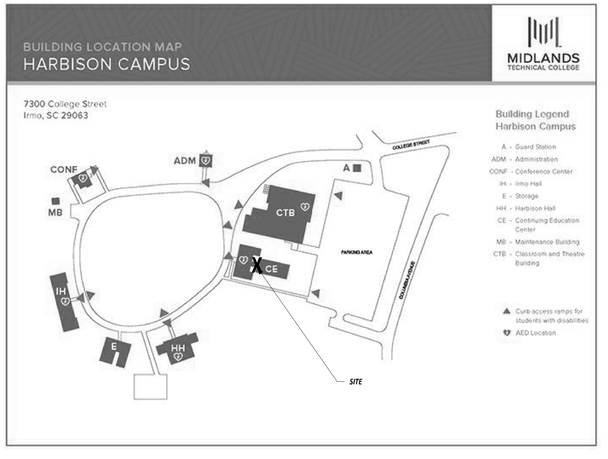


STATE MAP



VICINITY MAP



CAMPUS MAP

DESIGN INITIATIVE GROUP

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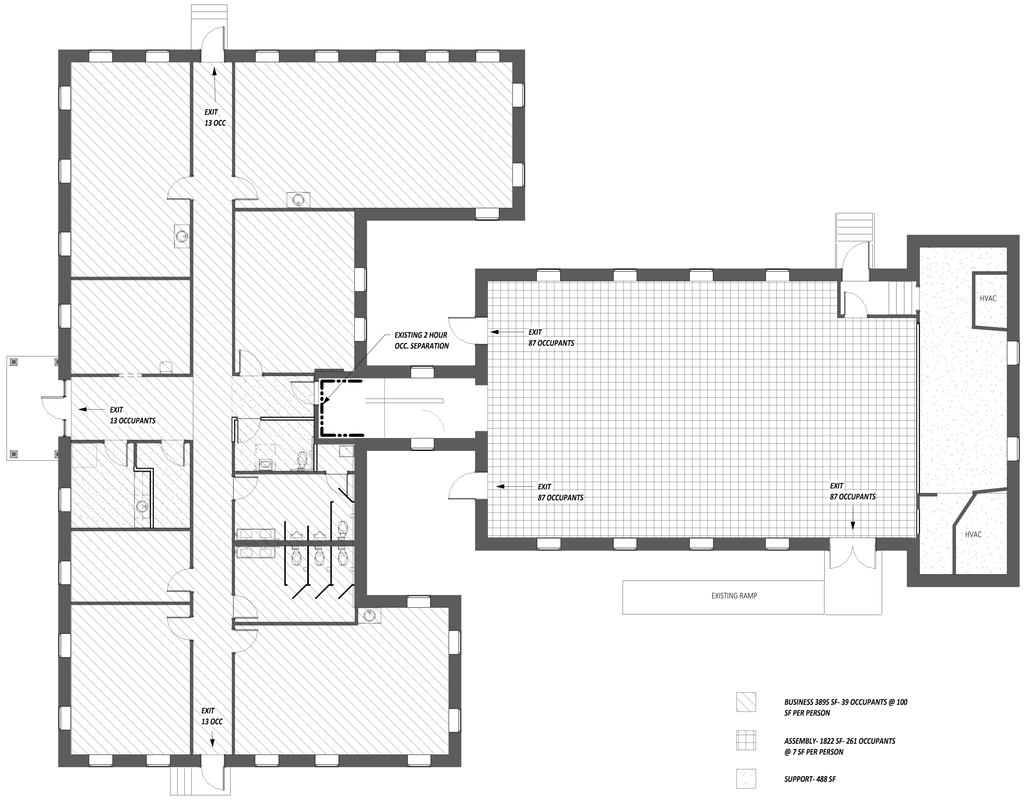
COVER

24-021

T1.0



1 FLOOR PLAN -CODE
1/8" = 1'-0"

GENERAL SCOPE OF WORK DESCRIPTION

1. INSTALLATION OF NEW FINISHES TO INCLUDE FLOORING, PAINT, MILLWORK AND CEILINGS
2. FINISH UPGRADES AT PORTICO
3. REPLACEMENT OF DOORS AND HARDWARE
4. RECONFIGURATION OF ELEVATED AREA IN MULTIPURPOSE ROOM
5. UPDATED LIGHTING AT FRONT ENTRY AND MULTIPURPOSE ROOM
6. NEW FINISHES AND FIXTURES IN EXISTING TOILETS. 1 TO 1 REPLACEMENT.
7. ADDITION OF NEW ADA ACCESSIBLE UNISEX TOILET AND WATER COOLER
8. RECONFIGURATION OF BREAKROOM/ IT ROOM
9. STRUCTURAL REPAIRS TO FOUNDATION FRAMING
10. NEW FIRE ALARM SYSTEM
11. REPAIRS TO EXISTING ABOVE CEILING INSULATION SYSTEMS
12. NEW WINDOWS
13. REPLACEMENT OF EXISTING ADA LIFT
14. OTHER MINOR ITEMS AS NOTED IN THE CONSTRUCTION DOCUMENTS.

CODE REVIEW NOTES

1. NO CHANGE IN OCCUPANT LOAD OR USE IS INCLUDED IN THIS PROJECT.
2. EXISTING NUMBER OF EGRESS PATHS AND LOCATIONS TO BE MAINTAINED.
3. THE BUILDING IS DESIGNED AS A SPLIT LEVEL. BOTH "A" AND "B" OCCUPANCIES EXIT AT GRADE. THE BUILDING IS PREDOMINANTLY OCCUPANCY TYPE "B" WHICH ALLOWS FOR 9000 SF MAXIMUM AREA AND 2 STORIES ABOVE GRADE.
4. NO RATED CORRIDORS, WALLS OR CEILINGS ARE EVIDENT IN THE CURRENT CONSTRUCTION EXCEPT FOR THE 2 HOUR OCCUPANCY SEPARATION WALL AND DOOR. ALL OTHER EXISTING DOORS AND HARDWARE ARE NOT RATED.

GENERAL NOTES:

1. COORDINATE WITH MTC FOR "IT" REQUIREMENTS FOR THE SCREENS AND PROJECTORS AND TELEVISIONS.
2. COORDINATE WITH MTC FOR THIRD PARTY INSPECTIONS
3. CONTRACTOR TO INSTALL NEW STAINLESS STEEL FACEPLATES ON ALL OUTLETS EXISTING AND NEW.
4. A HAZARDOUS MATERIALS REPORT IS AVAILABLE FOR REVIEW. HAZARDOUS MATERIALS WERE NOT FOUND TO EXIST IN THE FACILITY. IF THE CONTRACTOR ENCOUNTERS SUSPECTED HAZARDOUS MATERIALS, STOP WORK IMMEDIATELY IN THE AREA AND CONTACT THE OWNER.
5. CONTRACTOR TO PROVIDE ALL NEW CEILING MOUNTED DIFFUSERS. EXISTING DUCTWORK TO REMAIN.
6. CEILING AND ALL CEILING MOUNTED FIXTURES ARE TO BE INSTALLED PER CURRENT CODE AS SEISMIC DESIGN CATEGORY "D".CONTRACTOR TO ASSUME NEW HANGER WIRES FOR ALL LIGHTING AND HVAC.
7. SUBSTITUTION REQUESTS MUST BE MADE IN WRITING AND APPROVED BEFORE THE FINAL ADDENDUM IS ISSUED. REQUESTS MUST INCLUDE A DETAILED COMPARISON BETWEEN THE SPECIFIED PRODUCT AND PROPOSED TO INCLUDE MATERIALS, AESTHETICS, PERFORMANCE AND WARRANTY. SEE ENGINEERING DRAWINGS FOR MORE INFORMATION.
8. SEE ENGINEERING DRAWINGS FOR SUBMITTAL REQUIREMENTS. FOR ARCHITECTURAL PRODUCTS PROVIDE THE FOLLOWING:
   A. ALL FINISH SPECIFICATIONS AND PRODUCT SAMPLES
   B. MILLWORK SHOP DRAWINGS AND SAMPLES
   C. TOILET PARTITION SHOP DRAWINGS AND SAMPLES
   D. STOREFRONT, WINDOW AND DOOR SHOP DRAWINGS.
   E. ROLLER SHADE SUBMITTALS
   F. HARDWARE SUBMITTAL
   G. INSULATION SUBMITTAL
   H. SIGNAGE SUBMITTAL AND SHOP DRAWINGS.
   I. LIFT SUBMITTAL AND SHOP DRAWINGS
   J. NEW WALL IN MULTIPURPOSE ROOM PRODUCT SUBMITTALS, SAMPLES AND SHOP DRAWINGS.

DEMOLITION NOTES:

1. GC TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ALL CONSTRUCTION TO BE DONE TO LOCAL AND STATE CODES AND STANDARDS.
2. COORDINATE WITH MTC PRIOR TO INTERRUPTING ANY SERVICES.
3. EXISTING FLOORS WILL NEED TO BE PREPPED FOR INSTALLATION OF NEW FLOORING.REFER TO MANUFACTURER'S INSTRUCTIONS.
4. INSULATION EXISTS ABOVE THE EXISTING CEILING IN THE MULTIPURPOSE ROOM AND IS TO BE PROTECTED AND REINSTALLED WITH THE NEW CEILING.
5. IN THE MAIN FLOOR OFFICE AND CLASSROOM BUILDING INSULATION ABOVE THE CEILING TILES IS TO BE DEMOLISHED. A SECONDARY CEILING EXISTS THAT IS SECURED TO THE STRUCTURE. THIS CEILING IS TO REMAIN. CONTRACTOR TO PATCH/ REPAIR CEILING IN DAMAGED AREAS. EXISTING BLOWN IN INSULATION ABOVE SECONDARY CEILING IS TO BE REMOVED AND NEW R-20 BLOWN IN INSULATION INSTALLED.
6. COORDINATE WITH MTC FOR DUMPSTER AND STAGING LOCATIONS AS WELL AS PARKING.
7. AFTER DEMOLITION OF CEILINGS CONTRACRTOR TO INFORM OWNER/ ARCHITECT OF ANY UNFORESEEN CONDITIONS PRIOR TO STARTING NEW CONSTRUCTION.

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NOTE: Where a fire wall is necessary to separate buildings, each building is to be provided individual code criteria Tables 3 through 11. See IBC 503.1.2.

TABLE 3 BASIC BUILDING CODE INFORMATION

CONSTRUCTION CLASSIFICATION (IBC 602)	Type: VB
OCCUPANCY CLASSIFICATION (indicate all) (IBC 302 & 504.2)	B/ A-3
MOST RESTRICTIVE OCCUPANCY CLASSIFICATION (IBC Tables 504.3, 504.4 & 506.2)	A-3
Mixed Occupancy (IBC 508)	Yes ☒ No ☐
Separated (IBC 506.2.2 & 508.4)	Yes ☒ No ☐
Non separated (IBC 508.3)	Yes ☐ No ☒
Does building require Incidental Use Area Separation? (IBC 509.1)	Yes ☐ No ☒
2-way Communication Required (IBC 1009.6.5 & 1009.8)	Yes ☐ No ☒
Fire Apparatus Access and Water Line (IFC 503 & 507)	Yes ☐ No ☐
OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke- evacuation/control/compartments - IBC 414.1.3.)	NEW FIRE ALARM AS PART OF PROJECT

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TABLE 4 BUILDING HEIGHT & AREA

BUILDING HEIGHT

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
IBC TABLE 504.3	27	N/A	40	N/A
IBC TABLE 504.4	N/A	2*	N/A	2*
TOTAL HEIGHT (including any Allowable Increase)	27	2*	40	2*

BUILDING AREA

AREA LIMIT AS ALLOWED BY IBC TABLE 506.2 (area limitation for each story) A-3- 6000, B-9000 SF

AREA INCREASES AS ALLOWED BY IBC SECTIONS 506.2 & 506.3 _____ SF (maximum modified area for each story)

EXPLANATION OF INCREASES: _____

AREA AS ALLOWED BY IBC

Story: _____ _____ SF (area this story)
Story: _____ _____ SF (area this story)
Story: _____ _____ SF (area this story)
Story: _____ _____ SF (area this story)
Story: _____ _____ SF (area this story)

TOTAL AREA OF BUILDING ALLOWED BY IBC (sum of all stories) _____ SF

AREA AS DESIGNED			**ACCESSORY OCCUPANCY** (IBC 508.2 & Table 506.2)
Story: 1	6500	SF (area this story)	_____ SF (area this story)
Story: _____	_____	SF (area this story)	_____ SF (area this story)
Story: _____	_____	SF (area this story)	_____ SF (area this story)
Story: _____	_____	SF (area this story)	_____ SF (area this story)
Story: _____	_____	SF (area this story)	_____ SF (area this story)

TOTAL DESIGNED AREA OF BUILDING (summary of all stories) 6500 SF

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TABLE 7 FIRE RESISTANCE RATING OF BUILDING ELEMENTS

BUILDING ELEMENT	RATING AS REQUIRED (in hours)	RATING AS DESIGNED (in hours)	TESTING AGENCY & DESIGN NO. (UL, FM, etc)	DESIGNERS WALL / PARTITION KEY CODE
Primary Structural Frame (IBC Table 601)	0	0	____	
Bearing Walls: (IBC Table 601)				
Exterior (IBC Table 705.5)	0	0	____	____
Interior	0	0	____	____
Nonbearing Walls & Partitions (IBC Table 601, including footnote "d" & 602)				
Exterior (IBC Table 705.5)	0	0	____	____
Interior	0	0	____	____
Floor Construction (IBC Table 601) (including supporting beams & joists)	0	0	____	
Roof Construction (IBC Table 601) (including supporting beams & joists)	0	0	____	
Fire Walls (IBC Section 706)	NA	NA	____	____
Fire Barriers (IBC Section 707)	0	0	____	____
Fire Partitions (IBC Section 708)	2	2	EXISTING	____
Shaft Enclosures (IBC Section 713)	NA	NA	____	____
Opening & Protective Listing by Category (fire shutters, doors, etc. - IBC Section 716)	90	90	SEE SCHEDULE	____
Others (as required by Designer)	____	____	____	____

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TABLE 3E CODE INFORMATION FOR ADDITIONS, ALTERATIONS, OR CHANGE OF OCCUPANCY TO AN EXISTING STRUCTURE

TYPE OF PROJECT:
☒ Alteration (IEBC Chaps. 7, 8 &9) ☐ Addition (IEBC Chap. 11) ☐ Change of Occupancy (IEBC Chap. 10)

METHOD OF COMPLIANCE: (Check only one Option and all items that apply under that Option.)

☐ **Option 1: Prescriptive Compliance Method (IEBC Chapter 5)**

☒ **Option 2: Work Area Compliance Method (IEBC Chaps. 6-12)**
- ☐ Alteration Level 1, minor including reroofing (IEBC Chap. 7)
- ☒ Alteration Level 2, reconfigurations of space (IEBC Chap. 8)
- ☐ Alteration Level 3, work area exceeds 50% (IEBC Chap. 9)

Aggregate area of building: 6472 SF
Work area: 676 REC. SPACE/ BALANCE FINISHES SF

☐ **Option 3: Performance Compliance Method (IEBC Chap. 13)**

Original Building Code and Edition Applicable at time of Construction: SBC

Existing Sprinkler System?	☐ Yes	☒ No
Existing Fire Alarm System?	☐ Manual	☒ Auto
Seismic Evaluation Required?	☐ Yes	☒ No
Major Facility Project? (See §48-52-810(10)(a))	☐ Yes	☒ No
Change of Occupancy:	☐ Yes	☒ No

Existing Occupancy Classification(s): B/ A-3
New Occupancy Classification(s): B/A-3

Historic Building (IEBC Chapter 12):	☐ Yes	☒ No

☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

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TABLE 6 GENERAL FIRE PROTECTION REQUIREMENTS

SEPARATIONS		
Fireblocking Required (IBC Section 718)	Yes ☐	No ☒
Draftstopping Required (IBC Section 718)	Yes ☐	No ☒
Smoke Control System Required (IBC Section 909)	Yes ☐	No ☒
Smoke Barriers Required (IBC Section 407 & 408)	Yes ☐	No ☒
Smoke Partitions Required (IBC Section 407)	Yes ☐	No ☒
Fire Partition Required (IBC Section 708)	Yes ☒	No ☐
Fire Barrier Required (IBC Section 707)	Yes ☐	No ☒
ALARM & DETECTION		
Fire Alarm System Required (IFC Section 907)	Yes ☒	No ☐
Emergency/Voice Alarm Communications System Required (IFC Section 907.5.2.2)	Yes ☐	No ☒
Fire Command Center Required (IFC Section 508)	Yes ☐	No ☒
SUPPRESSION		
Standpipes Required (IFC Section 905)	Yes ☐	No ☒
Sprinklers Required (IFC Section 903)	Yes ☐	No ☒
Sprinklers Provided (____)	Yes ☐	No ☒
Portable extinguishers required (IFC 906)	Yes ☒	No ☐
Other suppression systems required (IFC 904)	Yes ☐	No ☒
Smoke & heat vents required (IFC 910)	Yes ☐	No ☒
OTHER: ***(Indicate other provided fire and life safety features not listed above, if any)***		
Emergency Responder Radio Coverage (IFC Section 510)	Yes ☐	No ☒
EXISTING 2 HOUR OCCUPANCY SEPARATION		
____		
____		

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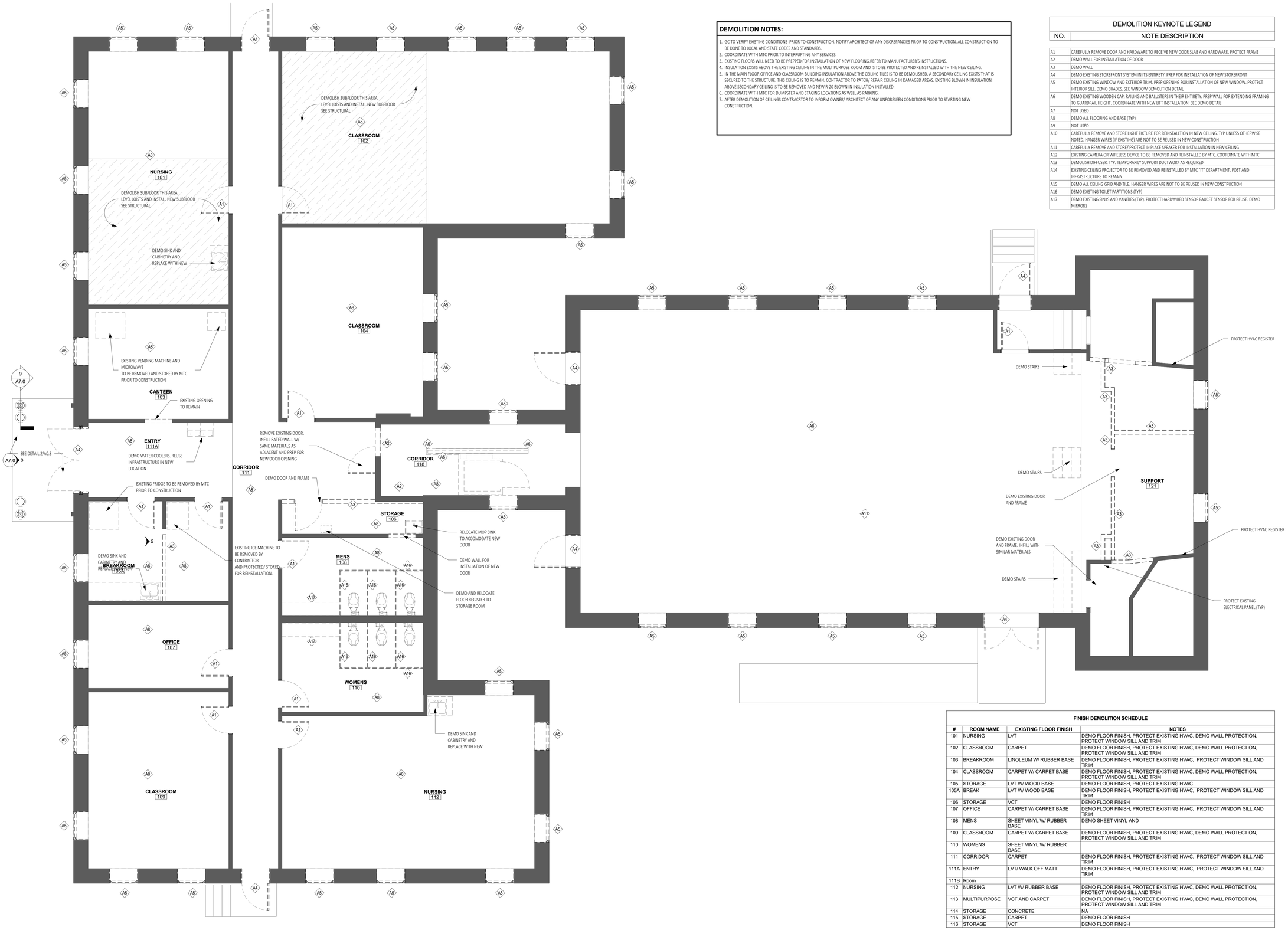
CODE INFORMATION AND NOTES

24-021

T1.1



1 FLOOR PLAN - DEMOLITION
1/4" = 1'-0"

DEMOLITION NOTES:

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4. INSULATION EXISTS ABOVE THE EXISTING CEILING IN THE MULTIPURPOSE ROOM AND IS TO BE PROTECTED AND REINSTALLED WITH THE NEW CEILING.
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6. COORDINATE WITH MTC FOR DUMPSTER AND STAGING LOCATIONS AS WELL AS PARKING.
7. AFTER DEMOLITION OF CEILINGS CONTRACTOR TO INFORM OWNER/ ARCHITECT OF ANY UNFORESEEN CONDITIONS PRIOR TO STARTING NEW CONSTRUCTION.

DEMOLITION KEYNOTE LEGEND	
NO.	NOTE DESCRIPTION
A1	CAREFULLY REMOVE DOOR AND HARDWARE TO RECEIVE NEW DOOR SLAB AND HARDWARE. PROTECT FRAME
A2	DEMO WALL FOR INSTALLATION OF DOOR
A3	DEMO WALL
A4	DEMO EXISTING STOREFRONT SYSTEM IN ITS ENTIRETY. PREP FOR INSTALLATION OF NEW STOREFRONT
A5	DEMO EXISTING WINDOW AND EXTERIOR TRIM. PREP OPENING FOR INSTALLATION OF NEW WINDOW. PROTECT INTERIOR SILL. DEMO SHADES. SEE WINDOW DEMOLITION DETAIL
A6	DEMO EXISTING WOODEN CAP, RAILING AND BALUSTERS IN THEIR ENTIRETY. PREP WALL FOR EXTENDING FRAMING TO GUARDRAIL HEIGHT. COORDINATE WITH NEW LIFT INSTALLATION. SEE DEMO DETAIL
A7	NOT USED
A8	DEMO ALL FLOORING AND BASE (TYP)
A9	NOT USED
A10	CAREFULLY REMOVE AND STORE LIGHT FIXTURE FOR REINSTALLTION IN NEW CEILING. TYP UNLESS OTHERWISE NOTED. HANGER WIRES (IF EXISTING) ARE NOT TO BE REUSED IN NEW CONSTRUCTION
A11	CAREFULLY REMOVE AND STORE/ PROTECT IN PLACE SPEAKER FOR INSTALLATION IN NEW CEILING
A12	EXISTING CAMERA OR WIRELESS DEVICE TO BE REMOVED AND REINSTALLED BY MTC. COORDINATE WITH MTC
A13	DEMOLISH DIFFUSER. TYP. TEMPORARILY SUPPORT DUCTWORK AS REQUIRED
A14	EXISTING CEILING PROJECTOR TO BE REMOVED AND REINSTALLED BY MTC "IT" DEPARTMENT. POST AND INFRASTRUCTURE TO REMAIN.
A15	DEMO ALL CEILING GRID AND TILE. HANGER WIRES ARE NOT TO BE REUSED IN NEW CONSTRUCTION
A16	DEMO EXISTING TOILET PARTITIONS (TYP)
A17	DEMO EXISTING SINKS AND VANITIES (TYP). PROTECT HARDWIRED SENSOR FAUCET SENSOR FOR REUSE. DEMO MIRRORS

FINISH DEMOLITION SCHEDULE

#	ROOM NAME	EXISTING FLOOR FINISH	NOTES
101	NURSING	LVT	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, DEMO WALL PROTECTION, PROTECT WINDOW SILL AND TRIM
102	CLASSROOM	CARPET	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, DEMO WALL PROTECTION, PROTECT WINDOW SILL AND TRIM
103	BREAKROOM	LINOLEUM W/ RUBBER BASE	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, PROTECT WINDOW SILL AND TRIM
104	CLASSROOM	CARPET W/ CARPET BASE	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, DEMO WALL PROTECTION, PROTECT WINDOW SILL AND TRIM
105	STORAGE	LVT W/ WOOD BASE	DEMO FLOOR FINISH, PROTECT EXISTING HVAC
105A	BREAK	LVT W/ WOOD BASE	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, PROTECT WINDOW SILL AND TRIM
106	STORAGE	VCT	DEMO FLOOR FINISH
107	OFFICE	CARPET W/ CARPET BASE	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, PROTECT WINDOW SILL AND TRIM
108	MENS	SHEET VINYL W/ RUBBER BASE	DEMO SHEET VINYL AND
109	CLASSROOM	CARPET W/ CARPET BASE	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, DEMO WALL PROTECTION, PROTECT WINDOW SILL AND TRIM
110	WOMENS	SHEET VINYL W/ RUBBER BASE	
111	CORRIDOR	CARPET	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, PROTECT WINDOW SILL AND TRIM
111A	ENTRY	LVT/ WALK OFF MATT	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, PROTECT WINDOW SILL AND TRIM
111B	Room		
112	NURSING	LVT W/ RUBBER BASE	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, DEMO WALL PROTECTION, PROTECT WINDOW SILL AND TRIM
113	MULTIPURPOSE	VCT AND CARPET	DEMO FLOOR FINISH, PROTECT EXISTING HVAC, DEMO WALL PROTECTION, PROTECT WINDOW SILL AND TRIM
114	STORAGE	CONCRETE	NA
115	STORAGE	CARPET	DEMO FLOOR FINISH
116	STORAGE	VCT	DEMO FLOOR FINISH

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DEMOLITION PLAN

24-021

A0.1

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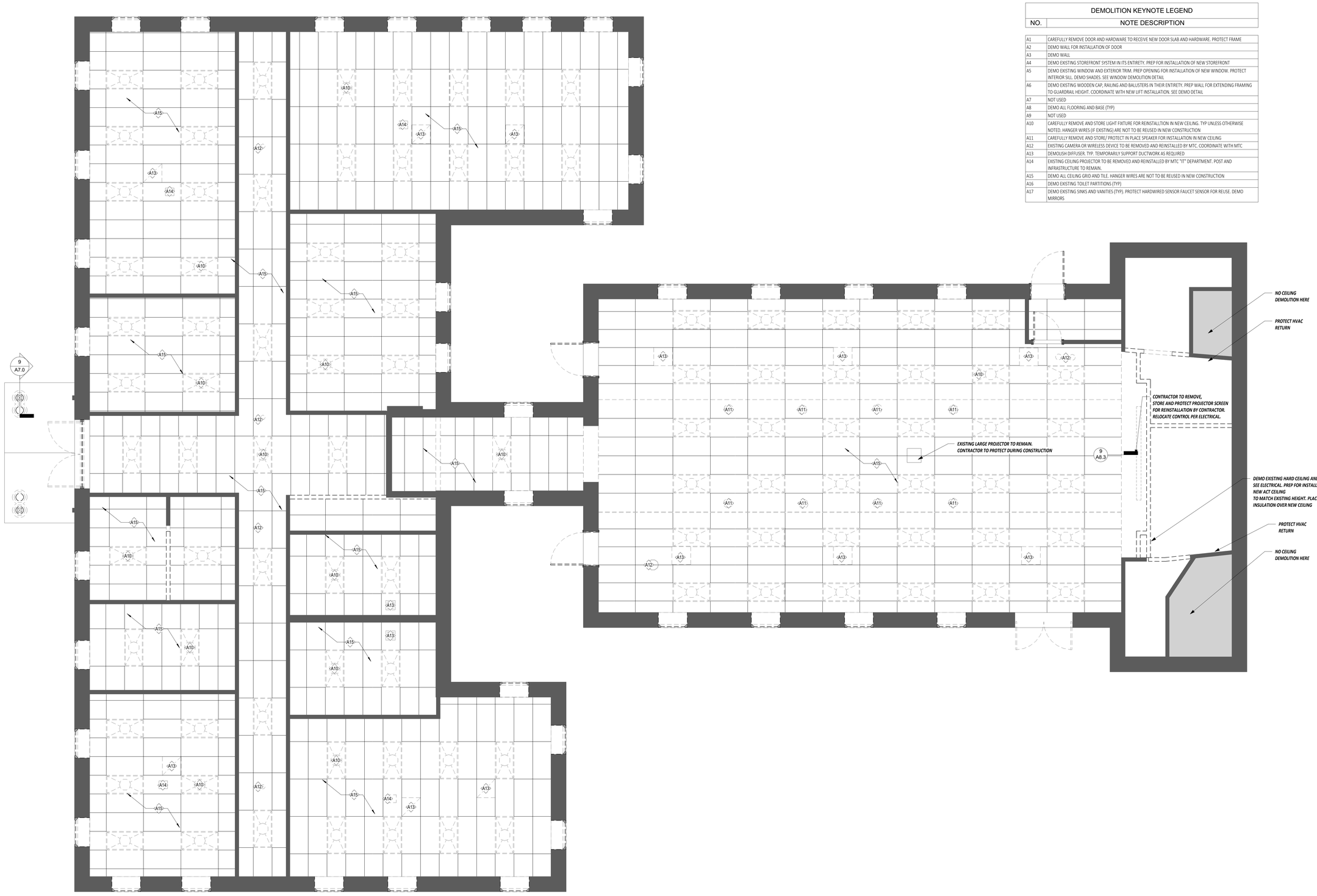

1 DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"

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DEMOLITION RCP

24-021

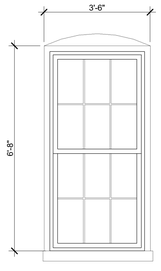
A0.2

2 PORTICO DEMOLITION DETAILS
1/4" = 1'-0"

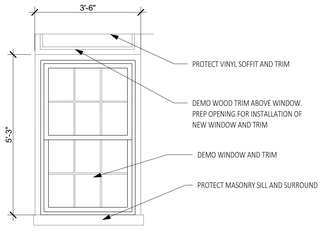
3 RAILING AND LIFT DEMO DETAILS
1/4" = 1'-0"

DEMOLITION NOTES:

1. GC TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ALL CONSTRUCTION TO BE DONE TO LOCAL AND STATE CODES AND STANDARDS.
2. COORDINATE WITH MTC PRIOR TO INTERRUPTING ANY SERVICES.
3. EXISTING FLOORS WILL NEED TO BE PREPPED FOR INSTALLATION OF NEW FLOORING.REFER TO MANUFACTURER'S INSTRUCTIONS.
4. INSULATION EXISTS ABOVE THE EXISTING CEILING IN THE MULTIPURPOSE ROOM AND IS TO BE PROTECTED AND REINSTALLED WITH THE NEW CEILING.
5. IN THE MAIN FLOOR OFFICE AND CLASSROOM BUILDING INSULATION ABOVE THE CEILING TILES IS TO BE DEMOLISHED. A SECONDARY CEILING EXISTS THAT IS SECURED TO THE STRUCTURE. THIS CEILING IS TO REMAIN. CONTRACTOR TO PATCH/ REPAIR CEILING IN DAMAGED AREAS. EXISTING BLOWN IN INSULATION ABOVE SECONDARY CEILING IS TO BE REMOVED AND NEW R-20 BLOWN IN INSULATION INSTALLED.
6. COORDINATE WITH MTC FOR DUMPSTER AND STAGING LOCATIONS AS WELL AS PARKING.
7. AFTER DEMOLITION OF CEILINGS CONTRACRTOR TO INFORM OWNER/ ARCHITECT OF ANY UNFORESEEN CONDITIONS PRIOR TO STARTING NEW CONSTRUCTION.



WINDOW TYPE "A"
1/2" = 1'-0"



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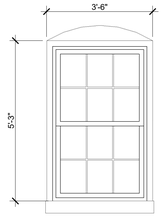

WINDOW TYPE "B1"
1/2" = 1'-0"

DESIGN INITIATIVE GROUP

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09.15.25

DEMOLITION DETAILS

24-021

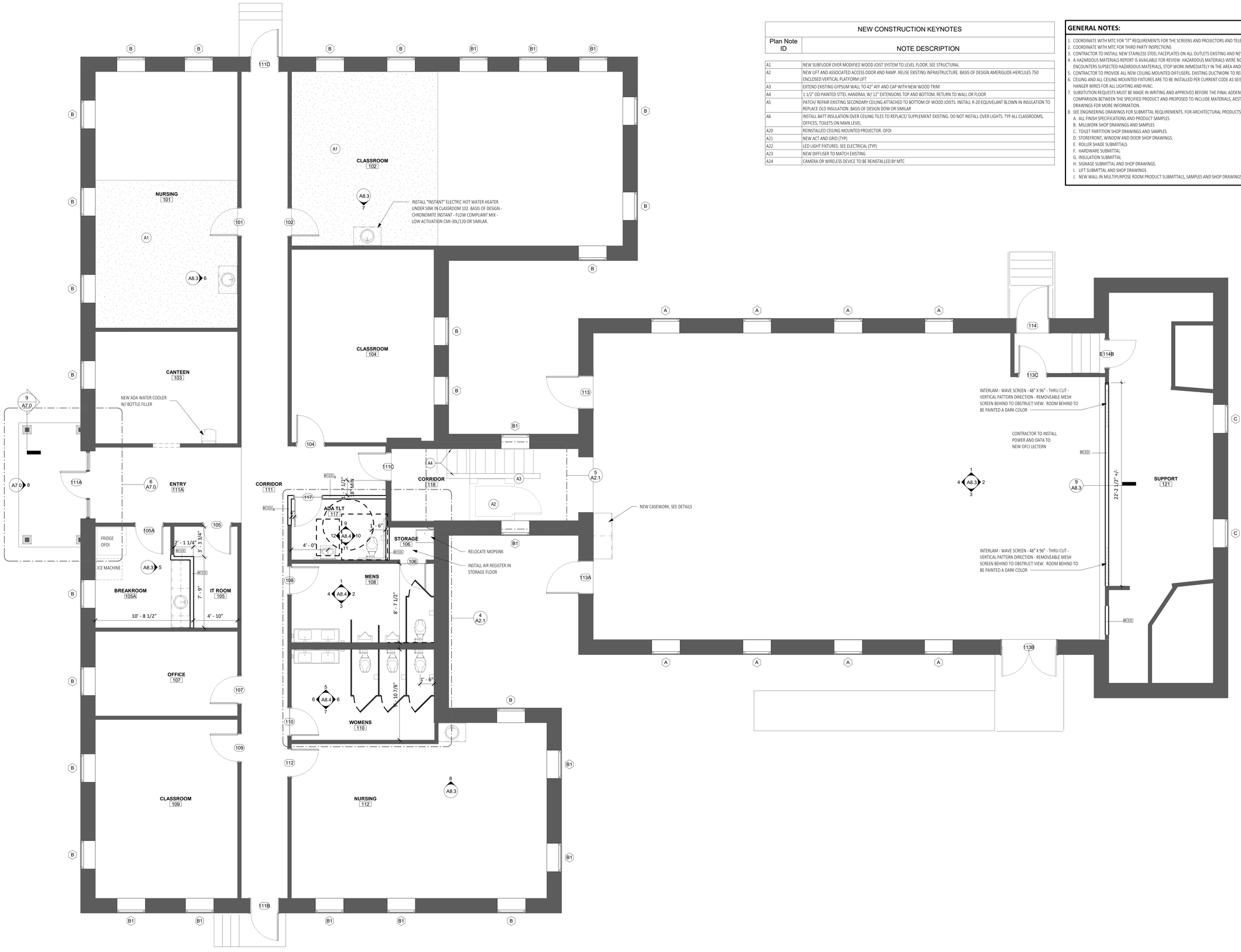
A0.3

NEW CONSTRUCTION KEYNOTES

Plan Note ID	NOTE DESCRIPTION
A1	NEW SUBFLOOR OVER MODIFIED WOOD JOIST SYSTEM TO LEVEL FLOOR. SEE STRUCTURAL
A2	NEW LIFT AND ASSOCIATED ACCESS DOOR AND RAMP. REUSE EXISTING INFRASTRUCTURE. BASIS OF DESIGN AMERIGLIDE-HERCULES 750 ENCLOSED VERTICAL PLATFORM LIFT
A3	EXTEND EXISTING GYPSUM WALL TO 42" AFF AND CAP WITH NEW WOOD TRIM
A4	1 1/2" OD PAINTED STTEL HANDRAIL W/ 12" EXTENSIONS TOP AND BOTTOM. RETURN TO WALL OR FLOOR
A5	PATCH/ REPAIR EXISTING SECONDARY CEILING ATTACHED TO BOTTOM OF WOOD JOISTS. INSTALL R-20 EQUIVELANT BLOWN IN INSULATION TO REPLACE OLD INSULATION. BASIS OF DESIGN DOW OR SIMILAR
A6	INSTALL BATT INSULATION OVER CEILING TILES TO REPLACE/ SUPPLEMENT EXISTING. DO NOT INSTALL OVER LIGHTS. TYP ALL CLASSROOMS, OFFICES, TOILETS ON MAIN LEVEL
A20	REINSTALLED CEILING MOUNTED PROJECTOR. OFOI
A21	NEW ACT AND GRID (TYP)
A22	LED LIGHT FIXTURES. SEE ELECTRICAL (TYP)
A23	NEW DIFFUSER TO MATCH EXISTING
A24	CAMERA OR WIRELESS DEVICE TO BE REINSTALLED BY MTC

GENERAL NOTES:

1. COORDINATE WITH MTC FOR "IT" REQUIREMENTS FOR THE SCREENS AND PROJECTORS AND TELEVISIONS.
2. COORDINATE WITH MTC FOR THIRD PARTY INSPECTIONS
3. CONTRACTOR TO INSTALL NEW STAINLESS STEEL FACEPLATES ON ALL OUTLETS EXISTING AND NEW.
4. A HAZARDOUS MATERIALS REPORT IS AVAILABLE FOR REVIEW. HAZARDOUS MATERIALS WERE NOT FOUND TO EXIST IN THE FACILITY. IF THE CONTRACTOR ENCOUNTERS SUSPECTED HAZARDOUS MATERIALS, STOP WORK IMMEDIATELY IN THE AREA AND CONTACT THE OWNER.
5. CONTRACTOR TO PROVIDE ALL NEW CEILING MOUNTED DIFFUSERS. EXISTING DUCTWORK TO REMAIN.
6. CEILING AND ALL CEILING MOUNTED FIXTURES ARE TO BE INSTALLED PER CURRENT CODE AS SEISMIC DESIGN CATEGORY "D".CONTRACTOR TO ASSUME NEW HANGER WIRES FOR ALL LIGHTING AND HVAC.
7. SUBSTITUTION REQUESTS MUST BE MADE IN WRITING AND APPROVED BEFORE THE FINAL ADDENDUM IS ISSUED. REQUESTS MUST INCLUDE A DETAILED COMPARISON BETWEEN THE SPECIFIED PRODUCT AND PROPOSED TO INCLUDE MATERIALS, AESTHETICS, PERFORMANCE AND WARRANTY. SEE ENGINEERING DRAWINGS FOR MORE INFORMATION.
8. SEE ENGINEERING DRAWINGS FOR SUBMITTAL REQUIREMENTS. FOR ARCHITECTURAL PRODUCTS PROVIDE THE FOLLOWING:
   A. ALL FINISH SPECIFICATIONS AND PRODUCT SAMPLES
   B. MILLWORK SHOP DRAWINGS AND SAMPLES
   C. TOILET PARTITION SHOP DRAWINGS AND SAMPLES
   D. STOREFRONT, WINDOW AND DOOR SHOP DRAWINGS.
   E. ROLLER SHADE SUBMITTALS
   F. HARDWARE SUBMITTAL
   G. INSULATION SUBMITTAL
   H. SIGNAGE SUBMITTAL AND SHOP DRAWINGS.
   I. LIFT SUBMITTAL AND SHOP DRAWINGS
   J. NEW WALL IN MULTIPURPOSE ROOM PRODUCT SUBMITTALS, SAMPLES AND SHOP DRAWINGS.



1 FLOOR PLAN
1/4" = 1'-0"

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09.15.25

FLOOR PLAN

24-021

A1.1

Item	**B.O.D.**
	Sign Type: MTC-7 **Product Line**: Slide | **Product**: Thin | **Sign Type**: MTC-7 | **Size**: 4" x 12" | **Endcap Style/Color**: RC - 150-Silver | **Mag**: N | **Win**: N | **Mount**: A - Adhesive *Insert* **Size**: 2" x 12" | **Mag**: N | **Win**: N | **Insert Color**: 815-Indigo | **Quantity**: 1 | **Copy Options**: **Copy Option**: PP - ADA Integral Photopolymer **Specs: Color**: 708-Soft White | **Style**: ARL - Arial **Size**: 5/8 | **Pos**: C - Center | **Case**: AC - ALL CAPS | **Brl.**: Y *Insert* **Size**: 2" x 12" | **Mag**: N | **Win**: Y | **Window Type**: Traditional | **Insert Color**: 733-Pearl Grey | **Quantity**: 1 | **Copy Options**: **Copy Option**: BLANK - Blank **Specs**:

703.2.9 Height above floor.

Visual characters shall be 40 inches (1015 mm) minimum above the floor of the viewing position, measured to the baseline of the character. Heights shall comply with Table 703.2.4, based on the size of the characters on the sign.

Exception: Visual characters indicating elevator car controls shall not be required to comply with Section 703.2.9.

703.3.5 Character height.

The uppercase letter "I" shall be used to determine the allowable height of all characters of a font. The height of the uppercase letter "I" of the font, measured vertically from the baseline of the character, shall be $^5/_8$ inch (16 mm) minimum, and 2 inches (51 mm) maximum.

Exception: Where separate raised and visual characters with the same information are provided, the height of the raised uppercase letter "I" shall be permitted to be $^1/_2$ inch (13 mm) minimum.

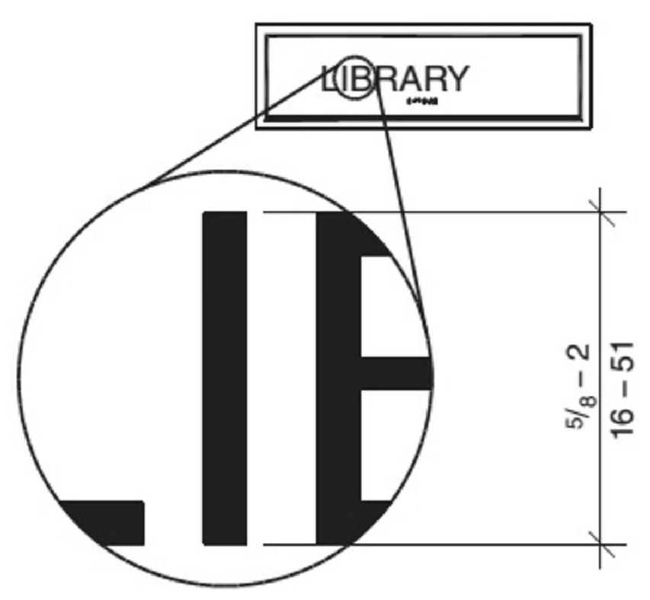
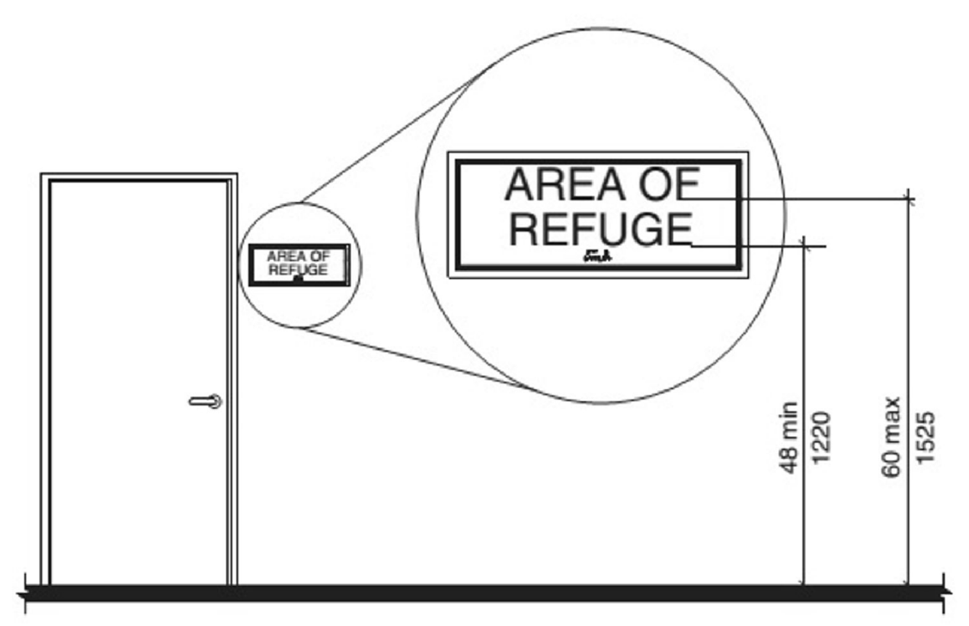


FIGURE 703.3.5 CHARACTER HEIGHT

703.3.10 Height above floor.

Raised characters shall be 48 inches (1220 mm) minimum above the floor, measured to the baseline of the lowest raised character and 60 inches (1525 mm) maximum above the floor, measured to the baseline of the highest raised character.

Exception: Raised characters for elevator car controls shall not be required to comply with Section 703.3.10.



Note: For braille character mounting height see Section 703.4.5

FIGURE 703.3.10 HEIGHT OF RAISED CHARACTERS ABOVE FLOOR

703.3.11 Location.

Where a sign containing raised characters and braille is provided at a door, the sign shall be alongside the door at the latch side. Where a sign containing raised characters and braille is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a sign containing raised characters and braille is provided at double doors with two active leaves, the sign shall be to the right of the right-hand door. Where there is no wall space on the latch side of a single door, or to the right side of double doors, signs shall be on the nearest adjacent wall. Signs containing raised characters and braille shall be located so that a clear floor area 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the raised characters is provided beyond the arc of any door swing between the closed position and 45 degree open position.

Exception: Signs containing raised characters and braille shall be permitted on the push side of doors with closers and without hold-open devices.

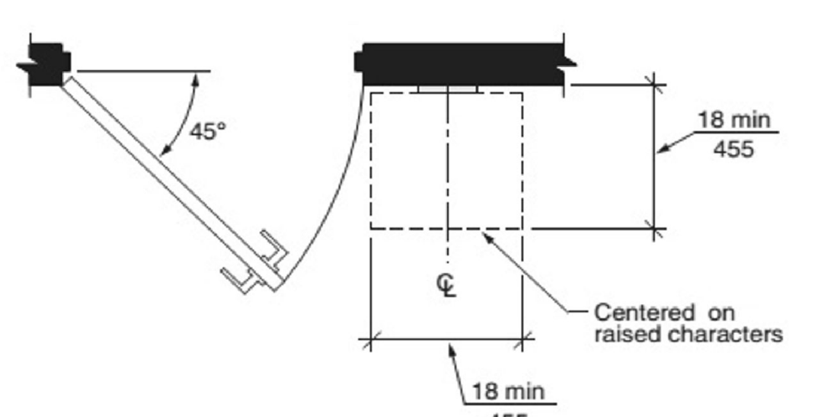


FIGURE 703.3.11 LOCATION OF SIGNS AT DOORS

GENERAL NOTES:

1. COORDINATE WITH MTC FOR "IT" REQUIREMENTS FOR THE SCREENS AND PROJECTORS AND TELEVISIONS.
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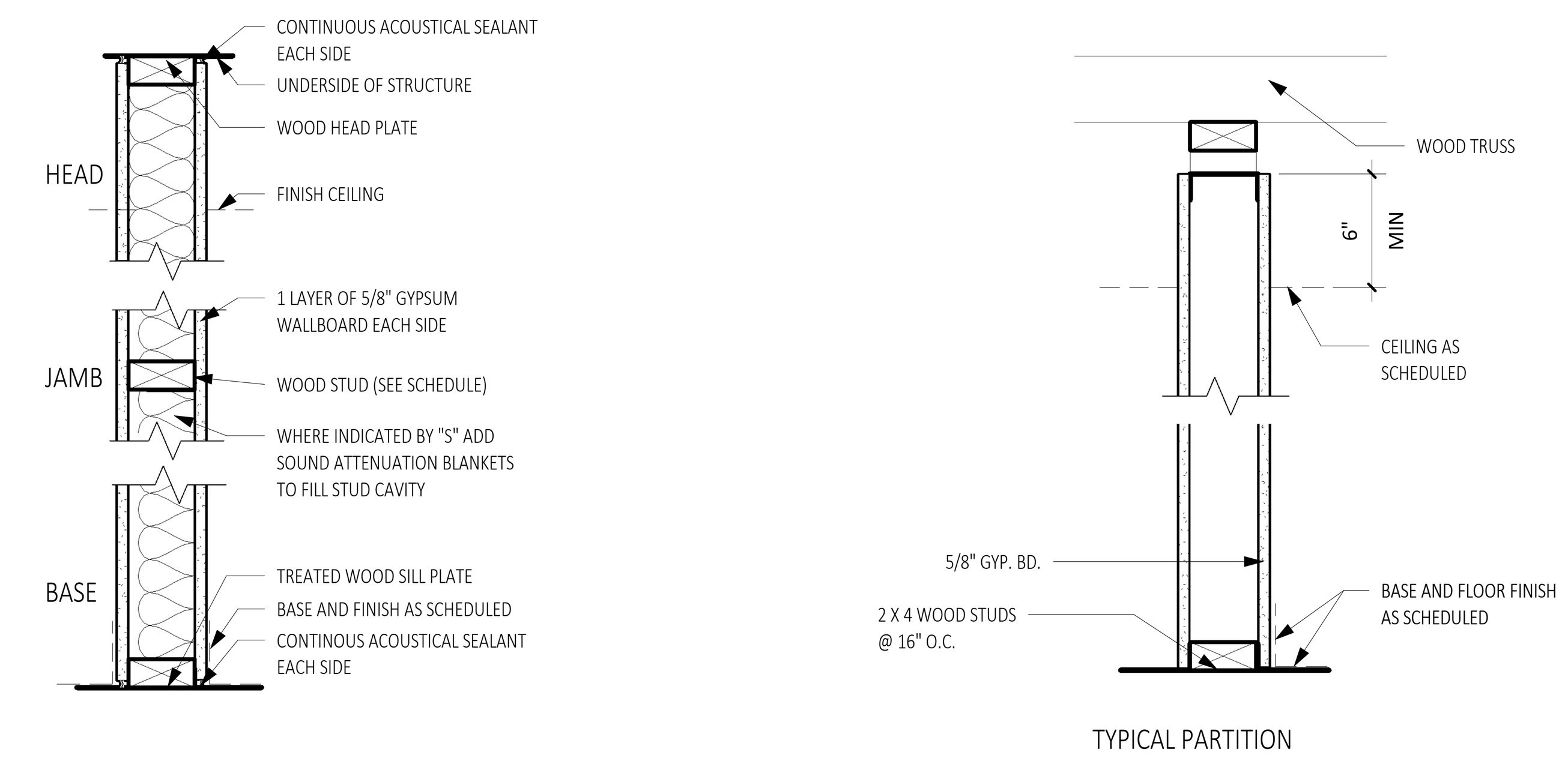
   D. STOREFRONT, WINDOW AND DOOR SHOP DRAWINGS.
   E. ROLLER SHADE SUBMITTALS
   F. HARDWARE SUBMITTAL
   G. INSULATION SUBMITTAL
   H. SIGNAGE SUBMITTAL AND SHOP DRAWINGS.
   I. LIFT SUBMITTAL AND SHOP DRAWINGS
   J. NEW WALL IN MULTIPURPOSE ROOM PRODUCT SUBMITTALS, SAMPLES AND SHOP DRAWINGS.



W — WOOD FRAMED PARTITION

NON-RATED/NON-LOAD BEARING

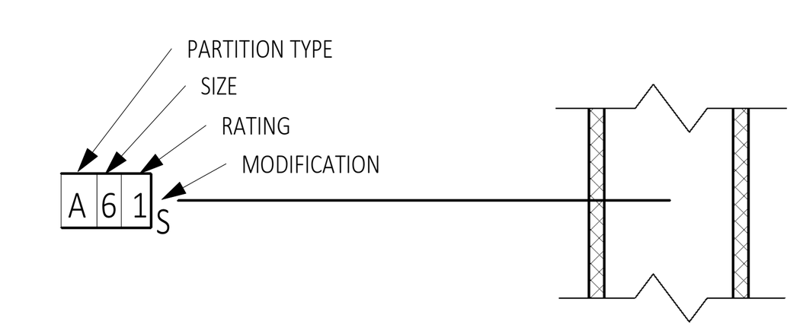
	FINISHED WIDTH	STUD SIZE	SPACING	GRADE/SPECIES
W 3 0	4 3/4"	3 1/2"	16" o.c.	#2 SYP (MIN)

TYPICAL PARTITION BRACING DETAIL

SCALE: 1 1/2" = 1'-0"

1 PARTITION TYPES
1 1/2" = 1'-0"

SEE T1.2 FOR PARTITION TYPES



MODIFICATIONS

- **A** 6" ABOVE CEILING FOR STUD WALL - BRACE TO STRUCTURE ABOVE
- **B** STUD TO DECK - STOP GYPSUM AT 6" ABOVE CEILING
- **C** STUD TO ROOF STRUCTURE - GYPSUM BOARD RUN FULL HEIGHT CORRIDORSIDE OF WALL, STOP 6" ABOVE CEILING OPPOSITE SIDE
- **D** STUD TO ROOF STRUCTURE - GYPSUM BOARD RUN FULL HEIGHT
- **M** MOISTURE RESISTANT GYP. BD TO 4'-0" A.F.F.
- **S** SOUND ATTENUATION FULL HEIGHT OF WALL.
- **XX"** PARTIAL HEIGHT WALL

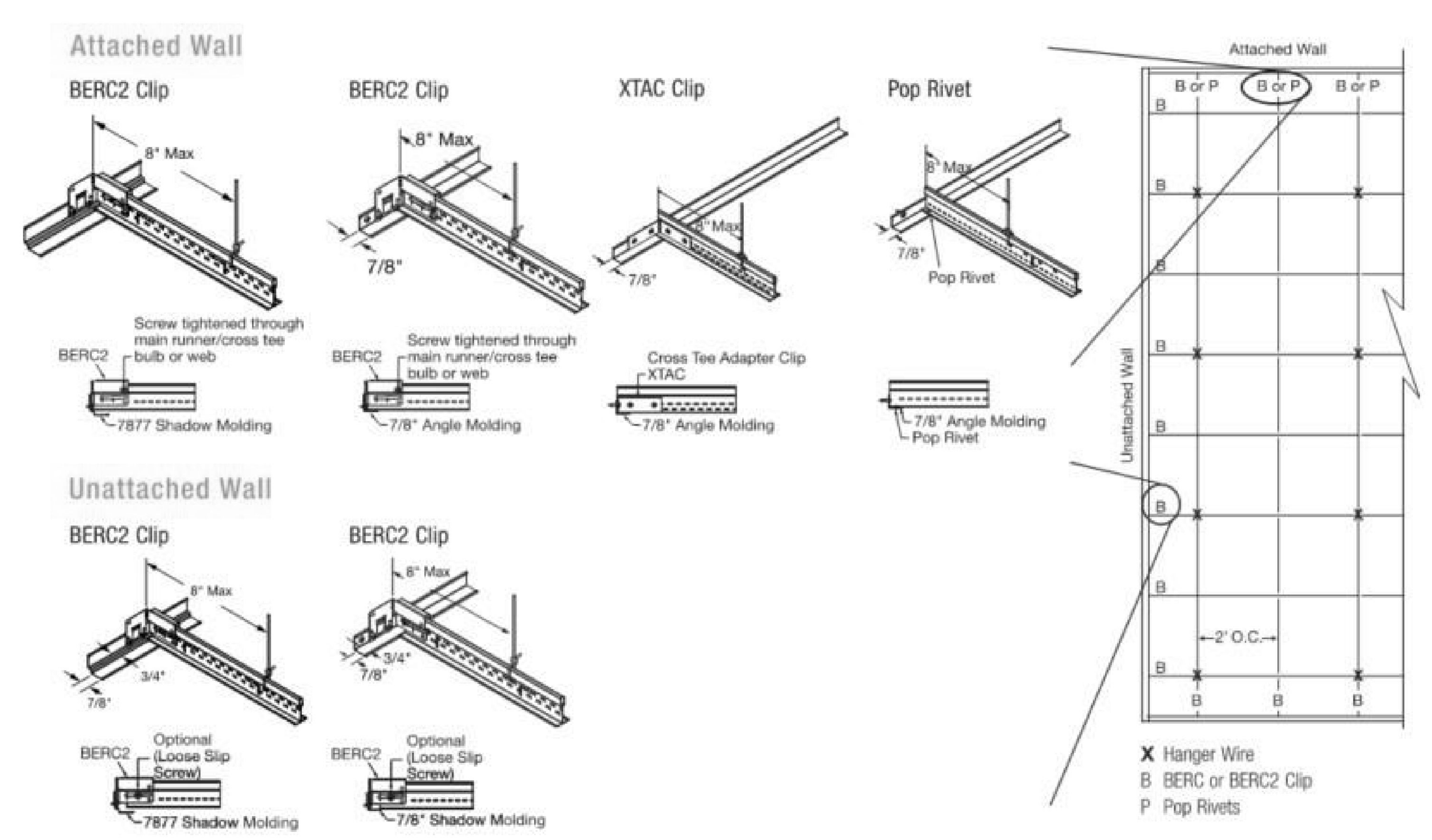
WALL MODIFICATIONS
1 1/2" = 1'-0"

D, E, F	Installed to ASTM C636 and ASTM E580

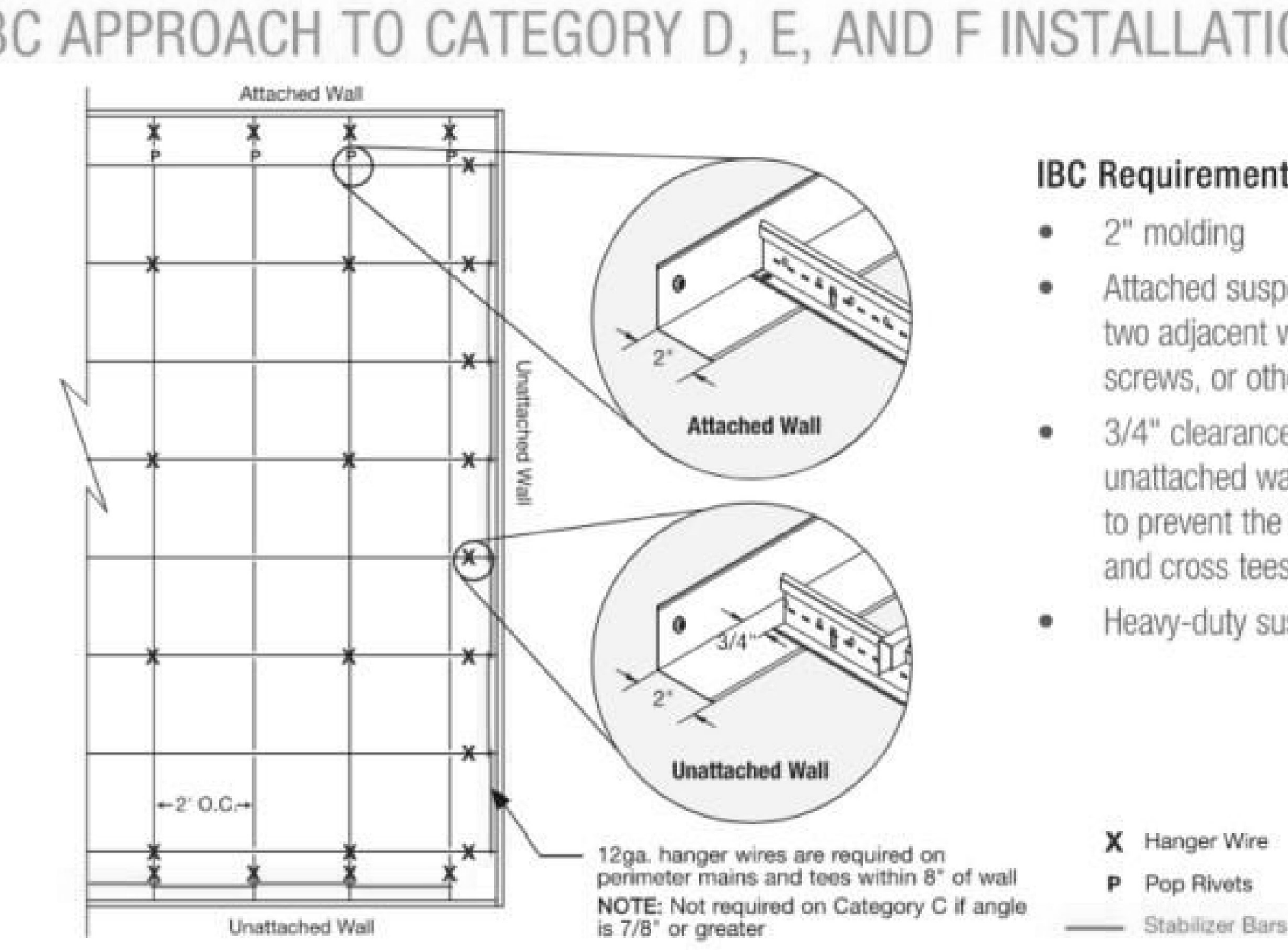
- Minimum 2" wall molding
- Suspension system must be attached to two adjacent walls – opposite walls must have a 3/4" clearance
- Ends of main beams and cross tees must be tied together to prevent their spreading
- Heavy-duty suspension system
- Ceiling areas over 1,000 SF must have horizontal restraint wire or rigid bracing
- Ceiling areas over 2,500 SF must have seismic separation joints or full height partitions
- Ceilings without rigid bracing must have 2" oversized trim rings for sprinklers and other penetrations
- Changes in ceiling plane must have positive bracing
- Cable trays and electrical conduits must be independently supported and braced
- Suspended ceilings will be subject to special inspection
- Perimeter support wires within 8"

NOTE: Consult your local code professional for information specific to your region. California projects may be governed by DSA and OSHPD.

SEISMIC RX® APPROACHES TO CATEGORY D, E, AND F INSTALLATIONS



IBC APPROACH TO CATEGORY D, E, AND F INSTALLATIONS

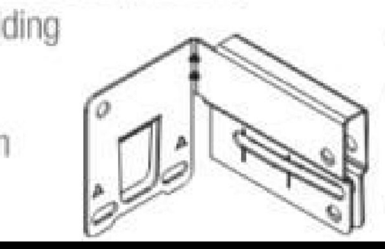


IBC Requirements

- 2" molding
- Attached suspension system on two adjacent walls with pop rivets, screws, or other means
- 3/4" clearance at perimeter on unattached walls and stabilizer bars to prevent the spread of main beams and cross tees
- Heavy-duty suspension system

Seismic Rx Code Compliant Solutions and Benefits (ESR-1308)

- Narrow, sleek aesthetic with standard 7/8" molding
- Eliminates installation and aesthetic problems associated with 2" wall molding
- Lower cost solution
- Better access to the plenum
- Eliminates stabilizer bars



- Eliminates visible pop rivets through the wall angle
- More profiles from which to choose
- Perimeter support wires within 8"
- Attached suspension system on two adjacent walls with the BERC2, ALBERC2, or pop rivets
- BERC2 or ALBERC2 clip with 3/4" clearance on unattached walls

DESIGN INITIATIVE GROUP

STATE OF SOUTH CAROLINA — DESIGN INITIATIVE GROUP, LLC — COLUMBIA, SC — No. 101687 — REGISTERED ARCHITECTS

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09.15.25

PARTITION TYPES AND DETAILS

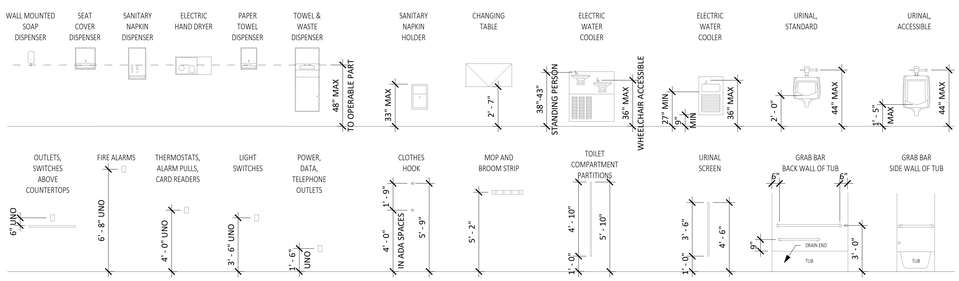
24-021

A1.2

MOUNTING HEIGHTS

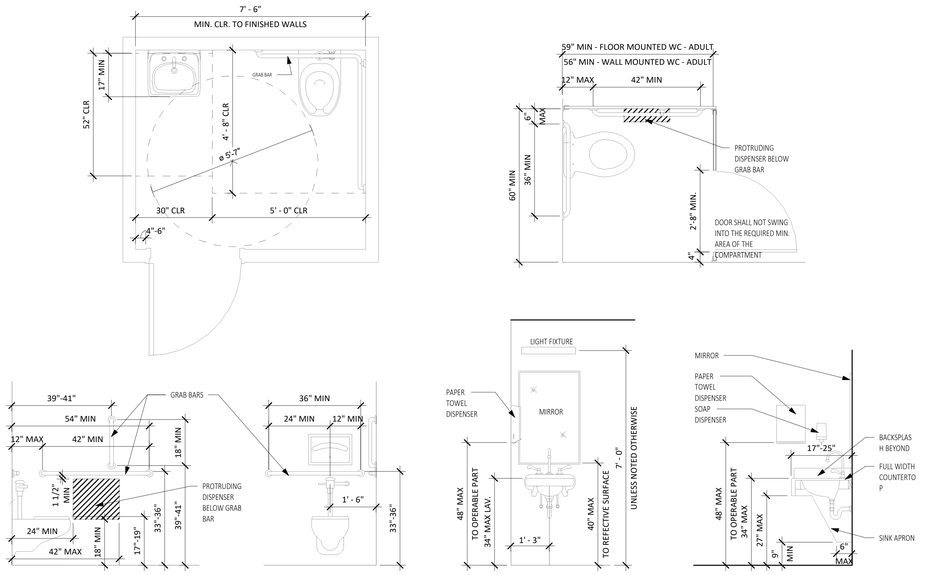
NOTE: PROVIDE WOOD BLOCKING IN GYP BD. PARTITIONSFOR ALL ACCESSORIES
NOTE: MAINTAIN INTEGRITY OF FIRE RATING WHERE ACCESSORIES ARE MOUNTED IN RATED WALLS

NOTE: DIMENSIONS ARE TO FINISH FLOOR
CHART SCALE: 1/4" = 1' - 0"



ACCESSIBLE W.C. FIXTURES DIMENSIONS

CHART SCALE: 1/2" = 1' - 0"



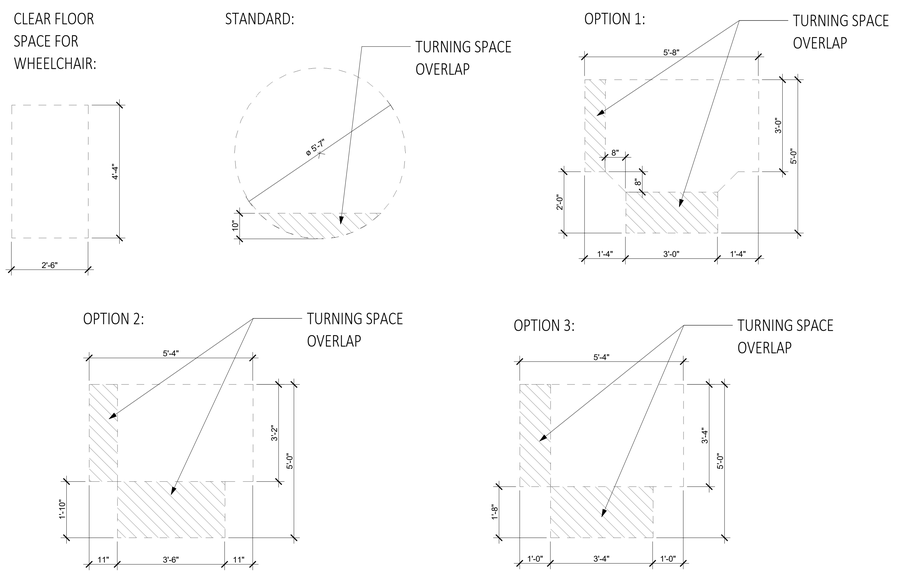
NOTE:
1. INSTALL MILDEW RESISTANT SILICONE SEALANT FLUSH W/ TOP OF WC.

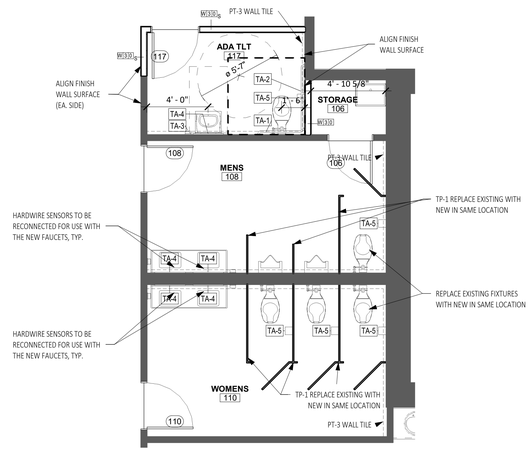
NOTE:
1. INSTALL FLUSH VALVE ON WIDE SIDE OF WC.

NOTES:
1. INSTALL INSULATED BOOT ON HOT WATER & DRAIN LINES AT ALL WALL MTD. LAVATORIES & COUNTER MOUNTED SINKS.
2. INSTALL MILDEW RESISTANT SILICONE SEALANT FLUSH W/ TOP OF LAVATORY.

WHEELCHAIR CLEARANCES

CHART SCALE: 1/2" = 1' - 0"

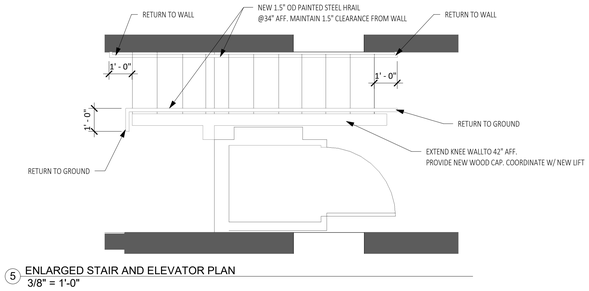




4 ENLARGED TOILET PLANS
1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

ITEM #	DESCRIPTION	MFR.	MODEL #	Provided	COMMENTS
TA-1	36" x 54" STAINLESS STEEL CORNER GRAB BAR	BOBRICK	B-68137.99	CFCI	
TA-2	18" VERTICAL GRAB BAR	BOBRICK	B-6806	CFCI	
TA-3	SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-2111	<varies>	<varies>
TA-4	24x36 GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME	BOBRICK	B-290	CFCI	OWNER APPROVAL REQUIRED
TA-5	SURFACE MOUNTED TOILET TISSUE DISPENSER	BOBRICK	B-2888	<varies>	<varies>



5 ENLARGED STAIR AND ELEVATOR PLAN
3/8" = 1'-0"

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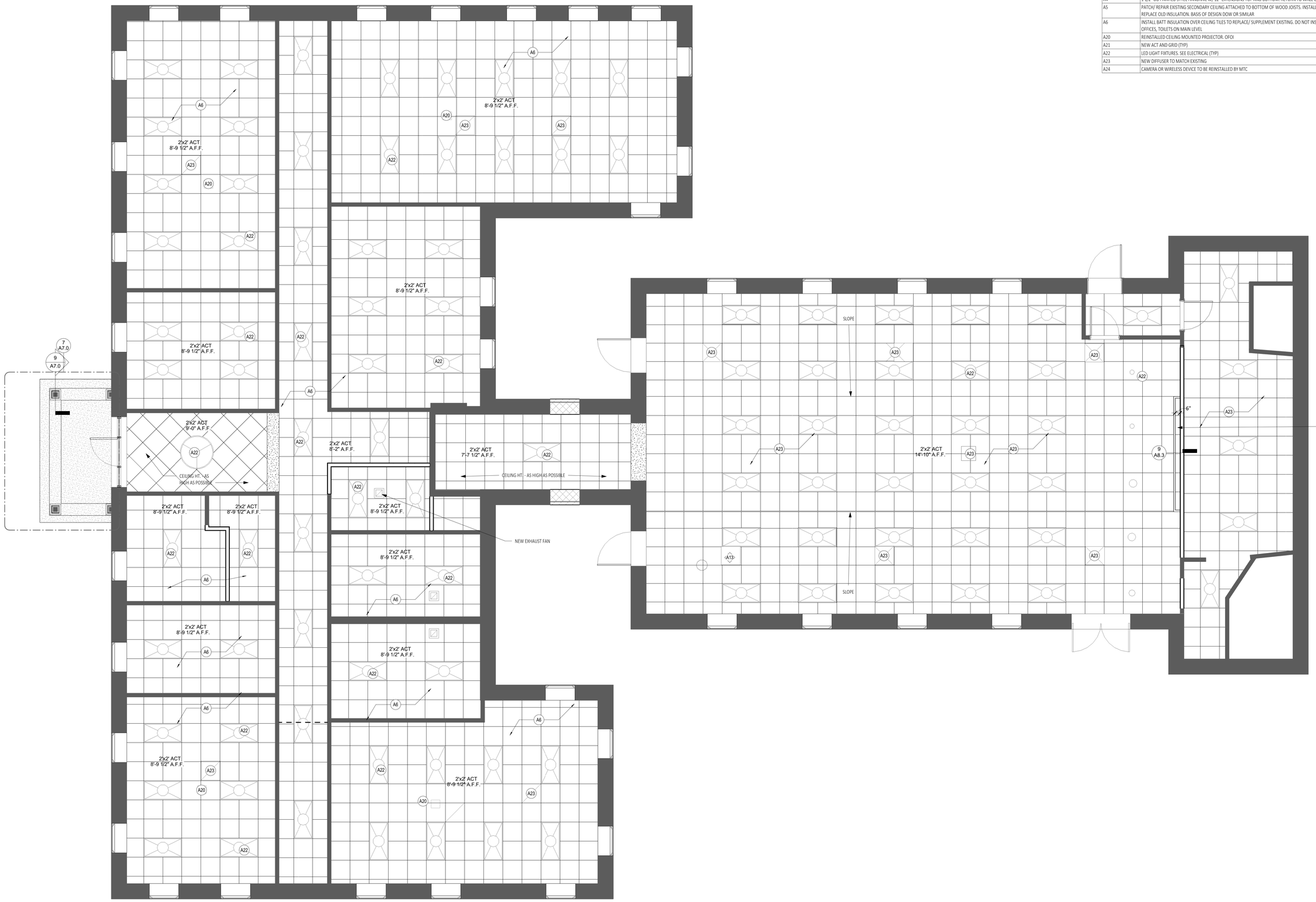
09.15.25

ENLARGED PLANS & DETAILS

24-021

A2.1

NEW CONSTRUCTION KEYNOTES	
Plan Note ID	NOTE DESCRIPTION
A1	NEW SUBFLOOR OVER MODIFIED WOOD JOIST SYSTEM TO LEVEL FLOOR. SEE STRUCTURAL
A2	NEW LIFT AND ASSOCIATED ACCESS DOOR AND RAMP. REUSE EXISTING INFRASTRUCTURE. BASIS OF DESIGN AMERIGLIDE-HERCULES 750 ENCLOSED VERTICAL PLATFORM LIFT
A3	EXTEND EXISTING GYPSUM WALL TO 42" AFF AND CAP WITH NEW WOOD TRIM
A4	1 1/2" OD PAINTED STTEL HANDRAIL W/ 12" EXTENSIONS TOP AND BOTTOM. RETURN TO WALL OR FLOOR
A5	PATCH/ REPAIR EXISTING SECONDARY CEILING ATTACHED TO BOTTOM OF WOOD JOISTS. INSTALL R-20 EQUIVELANT BLOWN IN INSULATION TO REPLACE OLD INSULATION. BASIS OF DESIGN DOW OR SIMILAR
A6	INSTALL BATT INSULATION OVER CEILING TILES TO REPLACE/ SUPPLEMENT EXISTING. DO NOT INSTALL OVER LIGHTS. TYP ALL CLASSROOMS, OFFICES, TOILETS ON MAIN LEVEL
A20	REINSTALLED CEILING MOUNTED PROJECTOR. OFOI
A21	NEW ACT AND GRID (TYP)
A22	LED LIGHT FIXTURES. SEE ELECTRICAL (TYP)
A23	NEW DIFFUSER TO MATCH EXISTING
A24	CAMERA OR WIRELESS DEVICE TO BE REINSTALLED BY MTC



1 REFLECTED CEILING PLAN
1/4" = 1'-0"

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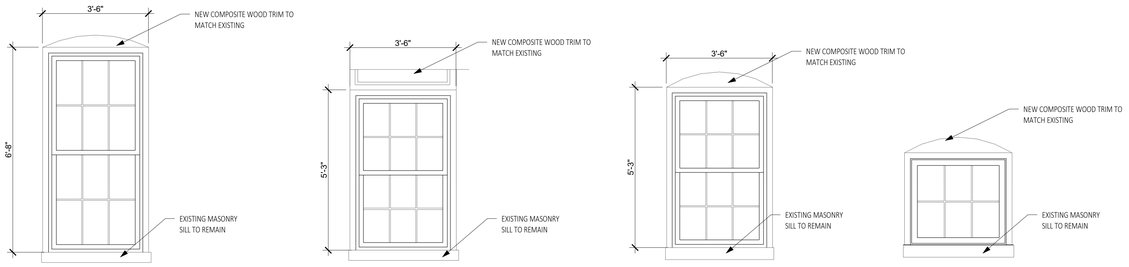
09.15.25

REFLECTED CEILING PLAN

24-021

A3.1



WINDOW TYPE "A" 1/2" = 1'-0"

WINDOW TYPE "B" 1/2" = 1'-0"

WINDOW TYPE "B1" 1/2" = 1'-0"

WINDOW TYPE "C" 1/2" = 1'-0"

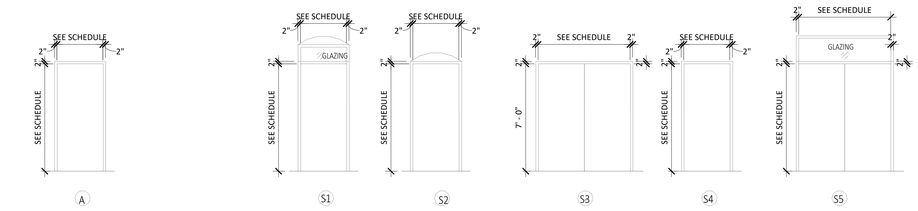
WINDOW NOTES

1. CONTRACTOR TO FIELD VERIFY ALL OPENINGS PRIOR TO CONSTRUCTION
2. DESIGN INTENT IS TO INSTALL WINDOWS FROM THE EXTERIOR. INTERIOR TRIM TO REMAIN
3. BASIS OF DESIGN FOR WINDOW REPLACEMENT: JELD-WEN SITELINE WOOD CLAD WINDOW WITH DIVIDED LITES.
   A. OTHER PREAPPROVED MANUFACTURERS ARE PELLA AND ANDERSON.
4. WINDOW TYPE "A" BOD - PRECISION WALLS - WINDOW ROLLER SHADES - BLACK-OUT FABRIC TBD (TYP.) AT ALL LOCATIONS.
5. WINDOW TYPE "B" AND "B1" BOD - PRECISION WALLS - WINDOW ROLLER SHADES, AT ALL LOCATIONS
6. SEE SUBSTITUTION REQUESTS FOR SUBMITTAL OF ALTERNATIVE MANUFACTURERS DURING BIDDING. ALL ALTERNATIVE PRODUCTS MUST BE APPROVED DURING THE BIDDING PHASE.

DOOR SCHEDULE

#	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	FIRE RATING	Door Elevation Type	Finish	Frame Type	FRAME MATERIAL	Frame Finish	HARDWARE/ COMMENTS
101	3'-0"	6'-8"	SCW		1	STAIN		HM EXIST.	PAINT	CLASSROOM LOCKSET
102	3'-0"	6'-8"	SCW		1	STAIN		HM EXIST.	PAINT	CLASSROOM LOCKSET
103	0"	0"	--			STAIN		HM EXIST.	PAINT	CASED OPENING
104	3'-0"	6'-8"	SCW		1	STAIN		HM EXIST.	PAINT	CLASSROOM LOCKSET
105	3'-0"	6'-8"	SCW		1	STAIN		HM EXIST.	PAINT	PROVIDE HALF LOUVER DOOR. STORAGE ROOM LOCKSET
105A	3'-0"	6'-8"	SCW		1	STAIN		HM EXIST.	PAINT	PROVIDE HALF LOUVER DOOR. STORAGE ROOM LOCKSET
106	2'-10"	6'-8"	HM		1	PAINT	A	HM	PAINT	STORAGE LOCKSET
107	3'-0"	6'-8"	SCW		1	STAIN		HM EXIST.	PAINT	OFFICE LOCKSET
108	3'-0"	6'-7"	SCW		1	STAIN		HM EXIST.	PAINT	BATHROOM LOCKSET. CLOSER, KICKPLATE CORRIDOR SIDE
109	3'-0"	6'-8"	SCW		1	STAIN		HM EXIST.	PAINT	CLASSROOM LOCKSET
110	3'-0"	6'-7"	SCW		1	STAIN		HM EXIST.	PAINT	BATHROOM LOCKSET. CLOSER, KICKPLATE CORRIDOR SIDE
111A	3'-0"	6'-8"	ALUM / GLASS		4					PANIC HARDWARE. INSTALL NEW ADA PUSHBUTTON ACCESS AND MOTOR. LOCATION TBD
111B	3'-0"	6'-8"	ALUM / GLASS		4	FACTORY	S1	ALUM	FACTORY	PANIC HARDWARE. PULL HANDLE EXTERIOR W/ KEYED LOCK
111C	3'-0"	6'-8"	HM	90	1	PAINT	A	HM	PAINT	WALL MOUNTED MAGNETIC HOLD OPEN. 180 DEGREE HINGE. PANIC BAR W/ LEVER HANDLE PULL SIDE
111D	3'-0"	6'-8"	ALUM / GLASS		4	FACTORY	S1	ALUM	FACTORY	PANIC HARDWARE. PULL HANDLE EXTERIOR W/ KEYED LOCK
112	3'-0"	6'-8"	SCW		1	STAIN		HM EXIST.	PAINT	CLASSROOM LOCKSET
113	3'-6"	7'-0"	ALUM / GLASS		2	FACTORY	S4	ALUM	FACTORY	PANIC HARDWARE. PULL HANDLE EXTERIOR W/ KEYED LOCK
113A	3'-6"	7'-0"	ALUM / GLASS		2	FACTORY	S4	ALUM	FACTORY	PANIC HARDWARE. PULL HANDLE EXTERIOR W/ KEYED LOCK
113B	6'-0"	7'-0"	ALUM / GLASS		3	FACTORY	S4	ALUM	FACTORY	PANIC HARDWARE. PULL HANDLE EXTERIOR W/ KEYED LOCK
113C	3'-0"	7'-0"	SCW		1	STAIN		HM EXIST.	PAINT	LEVER TYPE HANDLE W/ KEYED ENTRY
114	3'-6"	7'-0"	ALUM / GLASS		2	FACTORY	S5	ALUM	FACTORY	LEVER TYPE HANDLE WITH THUMBLATCH, KEYED ENTRY ONLY, DEADBOLT.

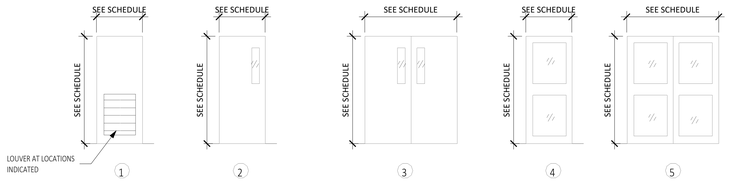
1. CONTRACTOR TO FIELD VERIFY ALL DOOR DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPENCIES.
2. ALL DOORS TO HAVE "SARGENT" CORES. COORDINATE KEYING WITH MTC.
3. HARDWARE TO BE COMMERCIAL GRADE FOR HIGHER EDUCATION APPLICATIONS.
4. ALL DOOR HANDLES TO BE ADA LEVER TYPE UNLESS OTHERWISE SPECIFIED.
5. COORDINATE HARDWARE WITH EXISTING FRAMES.
6. PANIC HARDWARE TO BE LEVER TYPE, NOT PUSH BAR.



FRAME TYPES 1/4" = 1'-0"

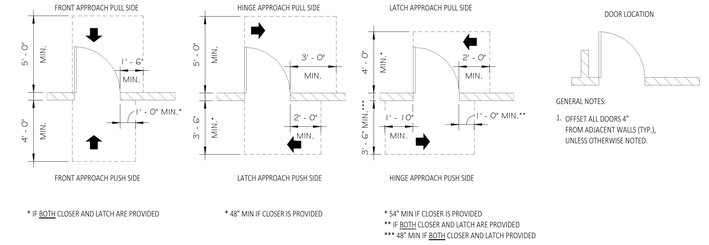
STOREFRONT ELEVATIONS 1/4" = 1'-0"

PROVIDE MASONRY TRIM COVER WHERE APPLICABLE. SEE EXISTING

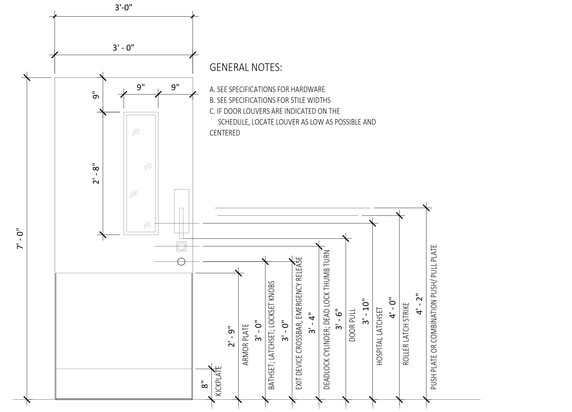


DOOR TYPES 1/4" = 1'-0"

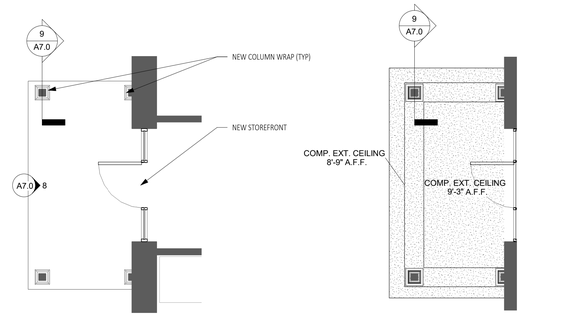
NOTE: SEE DOOR SCHEDULE COMMENTS FOR TYPE 1 DOORS THAT REQUIRE A HALF LOUVER.



DOOR CLEARANCES 1/4" = 1'-0"

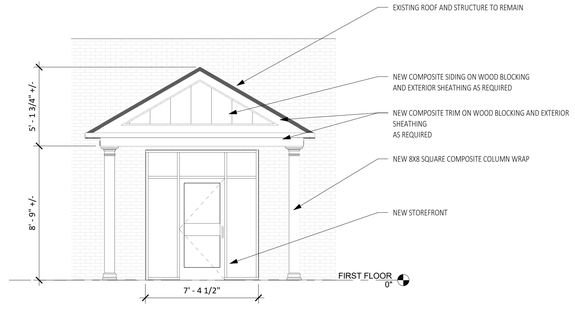


TYPICAL MOUNTING HEIGHTS 3/4" = 1'-0"

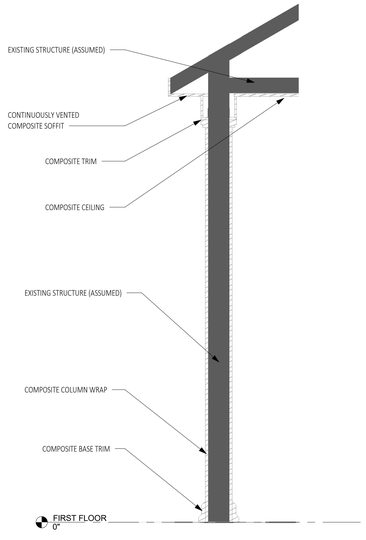


ENLARGED PORTICO PLAN 1/4" = 1'-0"

ENLARGED PORTICO RCP 1/4" = 1'-0"



PORTICO ELEVATION 1/4" = 1'-0"



PORTICO COLUMN SECTION 3/4" = 1'-0"

NOTE: FINAL DETAILING AND DIMENSIONS OF TRIM TO BE PROVIDED AFTER DEMOLITION OF EXISTING VENEER. CONTRACTOR TO ASSUME SIMILAR DIMENSIONS AND PROPORTIONS OF EXISTING PORTICO. STRUCTURAL CONDITIONS SHOWN ARE ESTIMATED.

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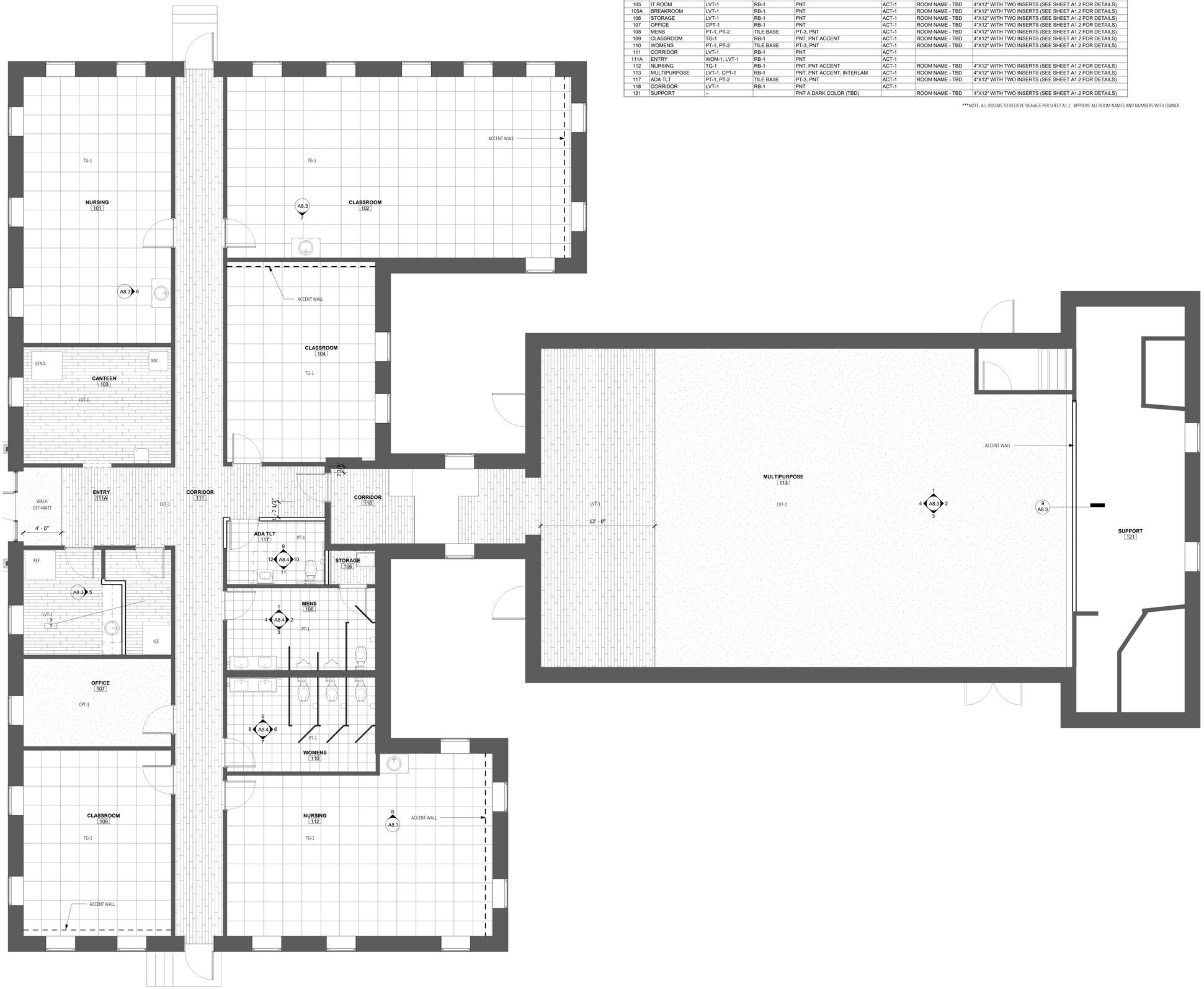
09.15.25

DOORS, WINDOWS, STOREFRONT AND ENTRY

24-021

A7.0



1 FINISH FLOOR PLAN
1/4" = 1'-0"

ROOM FINISH SCHEDULE

#	ROOM NAME	FLOOR FINISH	WALL BASE	WALLS	CEILING	SIGNAGE STYLE	SIGNAGE TYPE
101	NURSING	TG-1	RB-1	PNT, PNT ACCENT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
102	CLASSROOM	TG-1	RB-1	PNT, PNT ACCENT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
103	CANTEEN	LVT-1	RB-1	PNT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
104	CLASSROOM	TG-1	RB-1	PNT, PNT ACCENT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
105	IT ROOM	LVT-1	RB-1	PNT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
105A	BREAKROOM	LVT-1	RB-1	PNT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
106	STORAGE	LVT-1	RB-1	PNT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
107	OFFICE	CPT-1	RB-1	PNT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
108	MENS	PT-1, PT-2	TILE BASE	PT-3, PNT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
109	CLASSROOM	TG-1	RB-1	PNT, PNT ACCENT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
110	WOMENS	PT-1, PT-2	TILE BASE	PT-3, PNT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
111	CORRIDOR	LVT-1	RB-1	PNT	ACT-1		
111A	ENTRY	WOM-1, LVT-1	RB-1	PNT	ACT-1		
112	NURSING	TG-1	RB-1	PNT, PNT ACCENT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
113	MULTIPURPOSE	LVT-1, CPT-1	RB-1	PNT, PNT ACCENT, INTERLAM	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
117	ADA TLT	PT-1, PT-2	TILE BASE	PT-3, PNT	ACT-1	ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)
118	CORRIDOR	LVT-1	RB-1	PNT	ACT-1		
121	SUPPORT	--		PNT A DARK COLOR (TBD)		ROOM NAME - TBD	4"X12" WITH TWO INSERTS (SEE SHEET A1.2 FOR DETAILS)

***NOTE: ALL ROOMS TO RECIEVE SIGNAGE PER SHEET A1.2. APPROVE ALL ROOM NAMES AND NUMBERS WITH OWNER.

INTERIOR FINISH LEGEND

LVT-1 LUXURY VINYL TILE
MANUFACTURER: MANNINGTON COMMERCIAL
COLLECTION: SPACIA / WOOD
COLOR NAME / NUMBER: POWDERED OAK / SS5W3311
INSTALL / SIZE: STAGGER / 7.25X48
LOCATION: CORRIDOR (PUBLIC SPACES)
REP. CONTACT: CHIP STACK (704) 506-4907

TG-1 TEXAS GRANITE VINLY TILE
MANUFACTURER: AMERICAN BILTRITE FLOORING
COLLECTION: TEXAS GRANITE
COLOR NAME / NUMBER: WHITE GREY / VTG-130
SIZE: 24X24
LOCATION: CLASSROOMS & MULTIPURPOSE
REP. CONTACT: SEAN MITCHELL (706) 550-2357

CPT-1 CARPET TILE
MANUFACTURER: SHAW CONTRACT
STYLE NAME / NUMBER: ALLURE TILE / 59327
COLOR NAME / NUMBER: MOONLIT / 27505
COLLECTION: BRIGHTWORKS
INSTALL / SIZE: MONOLITHIC / 24X24
LOCATION: OFFICES & MULTIPURPOSE
REP. CONTACT: STEVEN DAVITTE (803) 206-4672

WOM-1 WALK-OFF-MAT
MANUFACTURER: SHAW CONTRACT
STYLE NAME / NUMBER: WELCOME II TILE/ STEPPIN OUT 5T031
COLOR NAME / NUMBER: CHARCOAL 31549
INSTALL / SIZE: QUARTER TURN / 24X24
LOCATION: ENTRY
REP. CONTACT: STEVEN DAVITTE (803) 206-4672

PT-1 PORCELAIN TILE
MANUFACTURER: STONEPEAK
STYLE NAME / NUMBER: DELUXE 2.0
COLOR NAME / NUMBER: OCEAN STORM
FINISH: HONED
INSTALL: CHECKED BOARD
SIZE: 24X24
LOCATION: RESTROOM FLOORS
REP. CONTACT: SAM GREENBERG (803) 254-9338

PT-2 PORCELAIN TILE
MANUFACTURER: STONEPEAK
STYLE NAME / NUMBER: DELUXE 2.0
COLOR NAME / NUMBER: PERLA
FINISH: HONED
INSTALL: CHECKED BOARD
SIZE: 24X24
LOCATION: RESTROOM FLOORS
REP. CONTACT: SAM GREENBERG (803) 254-9338

PT-3 PORCELAIN TILE
MANUFACTURER: STONEPEAK
STYLE NAME / NUMBER: SHADOWS COLLECTION
COLOR NAME / NUMBER: SHADOWS SMOKE / 754795
FINISH: GLOSSY
INSTALL: CHECKED BOARD
SIZE: 4X12
LOCATION: RESTROOM FLOORS
REP. CONTACT: SAM GREENBERG (803) 254-9338

PLAM-1 PLASTIC LAMINATE
MANUFACTURER: WILSONART
COLOR NAME / NUMBER: HIGH LINE 7970
LOCATION: VERTICAL CASEWORK
REP. CONTACT: SARAH HARRIS (839) 810-7023

SS-1 SOLID SURFACE
MANUFACTURER: CORIAN SOLID SURFACE
COLOR NAME / NUMBER: DOVE
GROUP: D
LOCATION: COUNTERTOPS
REP. CONTACT: BARBARA DAVIS (704) 654-8498

RB-1 RESILIENT BASE
MANUFACTURER: ROPPE WALL BASE
STYLE: TRADITIONAL 4"
COLOR: 193 BLACK BROWN
SIZE: 4" BASE
LOCATION: EVERYWHERE U.N.O.
REP. CONTACT: STEVE SLOAN (336) 260-3783

RT-1 RUBBER TREAD
MANUFACTURER: ROPPE
COLLECTION: RUBBER TREAD WITH RISER
PATTERN: #95 HAMMERED DESIGN WITH RISER
SIZE / COLOR: (#95 INCLUDES ADJUSTABLE NOSING) / 193 BLACK BROWN
LOCATION: STAIRS TREADS AND RISERS
SALES REP: STEVE SLOAN (336) 260-3783

INTERLAM SURFACES
MANUFACTURER: INTERLAM
COLLECTION: SCREENS
PATTERN: WAVE SCREEN
PANEL SIZE: 48" X 96"
PATTERN DEPTH: THRU CUT
PANEL THICKNESS: 3" NOMINAL
PATTERN TYPE: REPEATING (4'X 8')
ADD A MESH SCREEN BEHIND THIS SCREEN
LOCATION: PROJECTION SCREEN WALL IN THE MULTIPURPUSE ROOM
SALES REP: MICHAEL GALLERY (803) 600-4330

TP-1 TOILET PARTITIONS
MANUFACTURER: SCRANTON PRODUCTS
TYPE: HINY HIDERS TOILET PARTITIONS
COLOR: TBD
FINISH: TBD
LOCATION: RESTROOMS
SALES REP: HANNAH RHODES (678) 425.7583

PNT-1 PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6246 - NORTH STAR
FINISH: EGGSHELL
LOCATION: GENERAL PAINT COLOR

PNT-2 PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7066 - GRAY MATTERS
FINISH: SEMI-GLOSS
LOCATION: DOORS AND TRIM COLOR

PNT-3 PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: 7005 PURE WHITE
FINISH: FLAT
LOCATION: GYPSUM BOARD CEILING

ACT-1 ACOUSTICAL CEILING TILE
MANUFACTURER: USG
ITEM NUMBER: 2410
ACOUSTICS: 0.55 NRC / 35 CAC
SIZE: 2'X4'
EDGE: SQUARE EDGE
COLOR: WHITE TILE AND GRID
REP. CONTACT: ADAM DAVIS (919) 454-0230

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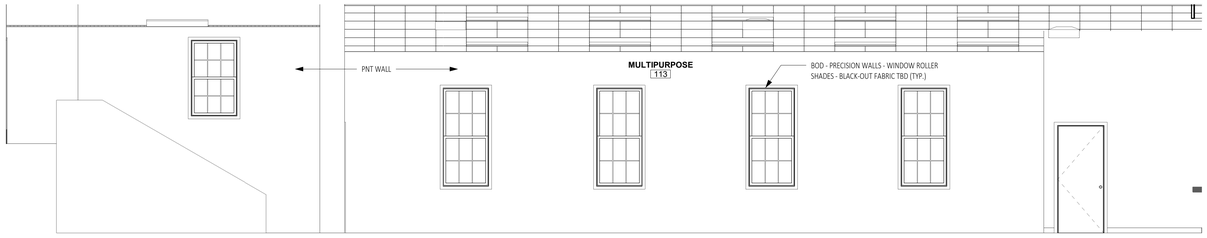
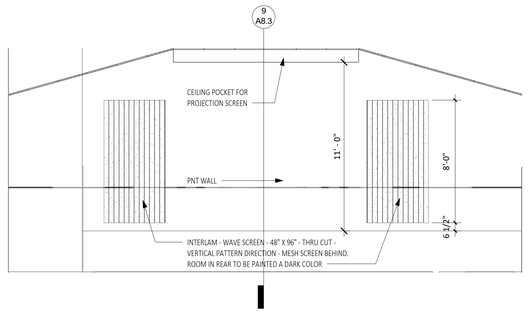
FINISH FLOOR PLAN

24-021

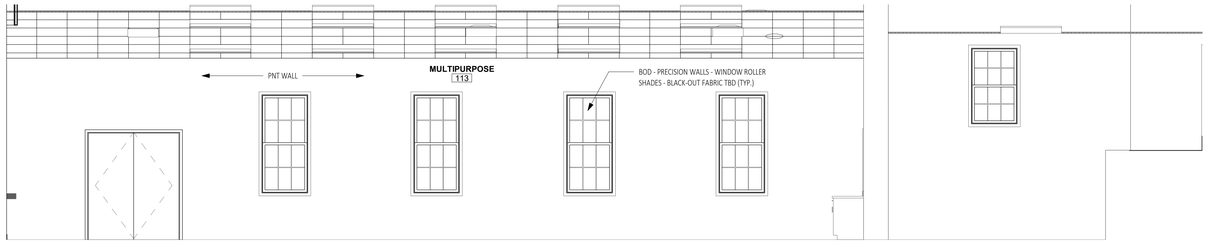
A8.1



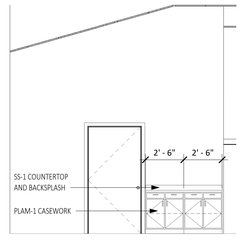
1 MULTIPURPOSE 113 - NORTH ELEVATION
1/4" = 1'-0"



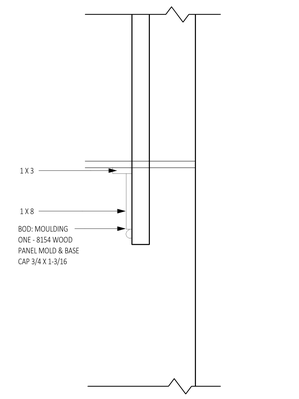
2 MULTIPURPOSE 113 - EAST ELEVATION
1/4" = 1'-0"

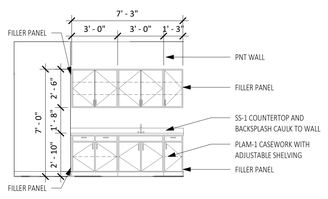


3 MULTIPURPOSE 113 - SOUTH ELEVATION
1/4" = 1'-0"

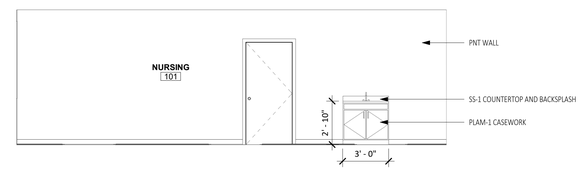


4 MULTIPURPOSE 113 - WEST ELEVATION
1/4" = 1'-0"

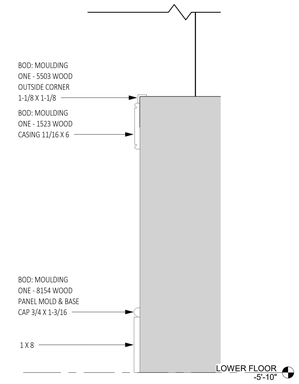




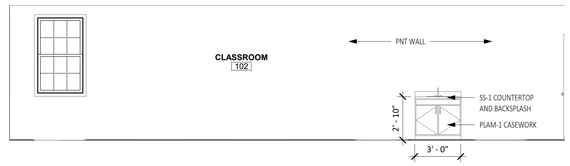
5 BREAKROOM 105A - EAST ELEVATION
1/4" = 1'-0"



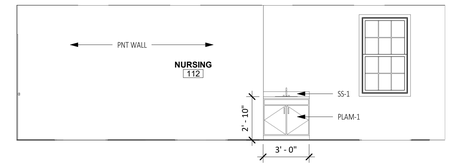
6 NURSING 107 - EAST ELEVATION
1/4" = 1'-0"



9 MULTIPURPOSE EAST WALL SECTION
1 1/2" = 1'-0"



7 CLASSROOM 102 - SOUTH ELEVATION
1/4" = 1'-0"



8 NURSING 112 - NORTH ELEVATION
1/4" = 1'-0"

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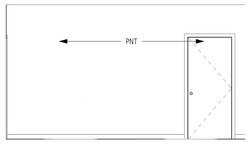
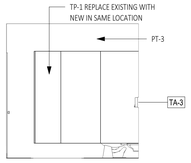
INTERIOR ELEVATIONS

24-021

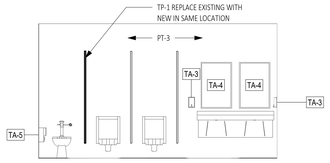
A8.3



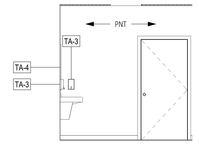
1 MENS 108 - NORTH ELEVATION
1/4" = 1'-0"



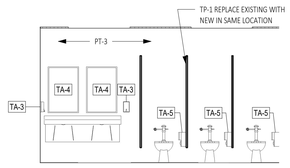
2 MENS 108 - EAST ELEVATION
1/4" = 1'-0"



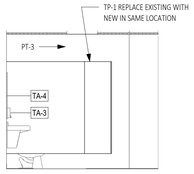
3 MENS 108 - SOUTH ELEVATION
1/4" = 1'-0"



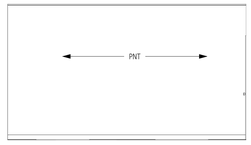
4 MENS 108 - WEST ELEVATION
1/4" = 1'-0"



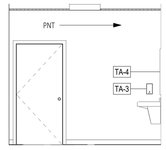
5 WOMENS 110 - NORTH ELEVATION
1/4" = 1'-0"



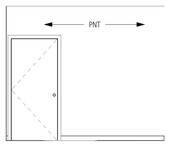
6 WOMENS 110 - EAST ELEVATION
1/4" = 1'-0"



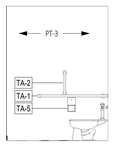
7 WOMENS 110 - SOUTH ELEVATION
1/4" = 1'-0"



8 WOMENS 110 - WEST ELEVATION
1/4" = 1'-0"



9 ADA TLT 117 - NORTH ELEVATION
1/4" = 1'-0"



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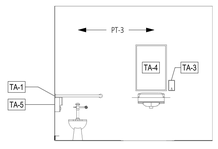
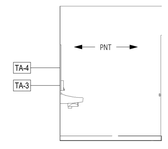
1/4" = 1'-0"



11 ADA TLT 117 - SOUTH ELEVATION
1/4" = 1'-0"



12 ADA TLT 117 - WEST ELEVATION
1/4" = 1'-0"

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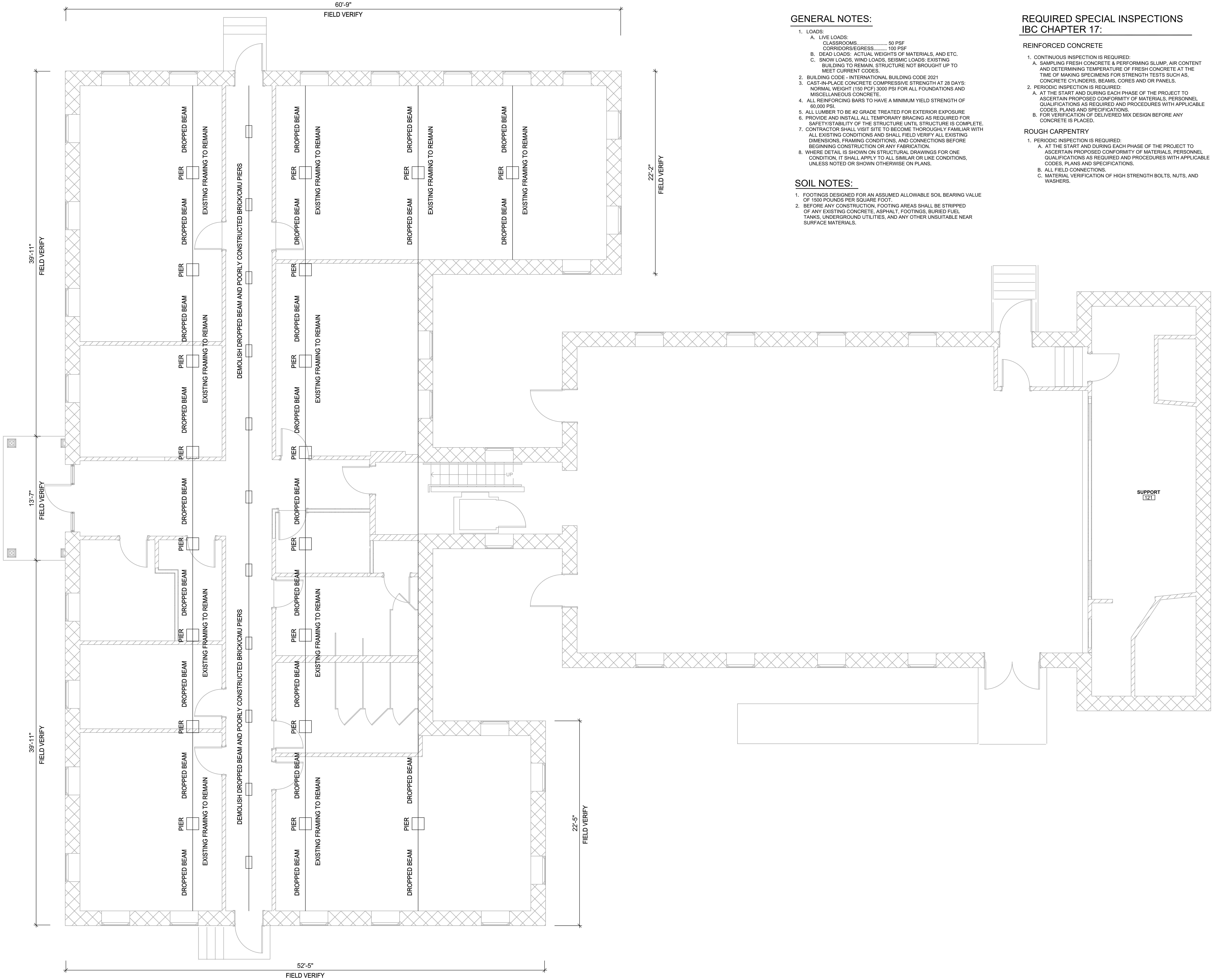
INTERIOR ELEVATIONS

24-021

A8.4



1 EXISTING PLAN AND DEMOLITION PLAN
1/4" = 1'-0"

GENERAL NOTES:

1. LOADS:
   A. LIVE LOADS:
      CLASSROOMS...................... 50 PSF
      CORRIDORS/EGRESS.......... 100 PSF
   B. DEAD LOADS: ACTUAL WEIGHTS OF MATERIALS, AND ETC.
   C. SNOW LOADS, WIND LOADS, SEISMIC LOADS: EXISTING BUILDING TO REMAIN. STRUCTURE NOT BROUGHT UP TO MEET CURRENT CODES.
2. BUILDING CODE - INTERNATIONAL BUILDING CODE 2021
3. CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: NORMAL WEIGHT (150 PCF) 3000 PSI FOR ALL FOUNDATIONS AND MISCELLANEOUS CONCRETE.
4. ALL REINFORCING BARS TO HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
5. ALL LUMBER TO BE #2 GRADE TREATED FOR EXTERIOR EXPOSURE
6. PROVIDE AND INSTALL ALL TEMPORARY BRACING AS REQUIRED FOR SAFETY/STABILITY OF THE STRUCTURE UNTIL STRUCTURE IS COMPLETE.
7. CONTRACTOR SHALL VISIT SITE TO BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AND SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, FRAMING CONDITIONS, AND CONNECTIONS BEFORE BEGINNING CONSTRUCTION OR ANY FABRICATION.
8. WHERE DETAIL IS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.

SOIL NOTES:

1. FOOTINGS DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING VALUE OF 1500 POUNDS PER SQUARE FOOT.
2. BEFORE ANY CONSTRUCTION, FOOTING AREAS SHALL BE STRIPPED OF ANY EXISTING CONCRETE, ASPHALT, FOOTINGS, BURIED FUEL TANKS, UNDERGROUND UTILITIES, AND ANY OTHER UNSUITABLE NEAR SURFACE MATERIALS.

REQUIRED SPECIAL INSPECTIONS IBC CHAPTER 17:

REINFORCED CONCRETE

1. CONTINUOUS INSPECTION IS REQUIRED:
   A. SAMPLING FRESH CONCRETE & PERFORMING SLUMP, AIR CONTENT AND DETERMINING TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS SUCH AS, CONCRETE CYLINDERS, BEAMS, CORES AND OR PANELS.
2. PERIODIC INSPECTION IS REQUIRED:
   A. AT THE START AND DURING EACH PHASE OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS AS REQUIRED AND PROCEDURES WITH APPLICABLE CODES, PLANS AND SPECIFICATIONS.
   B. FOR VERIFICATION OF DELIVERED MIX DESIGN BEFORE ANY CONCRETE IS PLACED.

ROUGH CARPENTRY

1. PERIODIC INSPECTION IS REQUIRED:
   A. AT THE START AND DURING EACH PHASE OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS AS REQUIRED AND PROCEDURES WITH APPLICABLE CODES, PLANS AND SPECIFICATIONS.
   B. ALL FIELD CONNECTIONS.
   C. MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS.

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No. 17457
ALBERT A. STEVENS
09.15.2025

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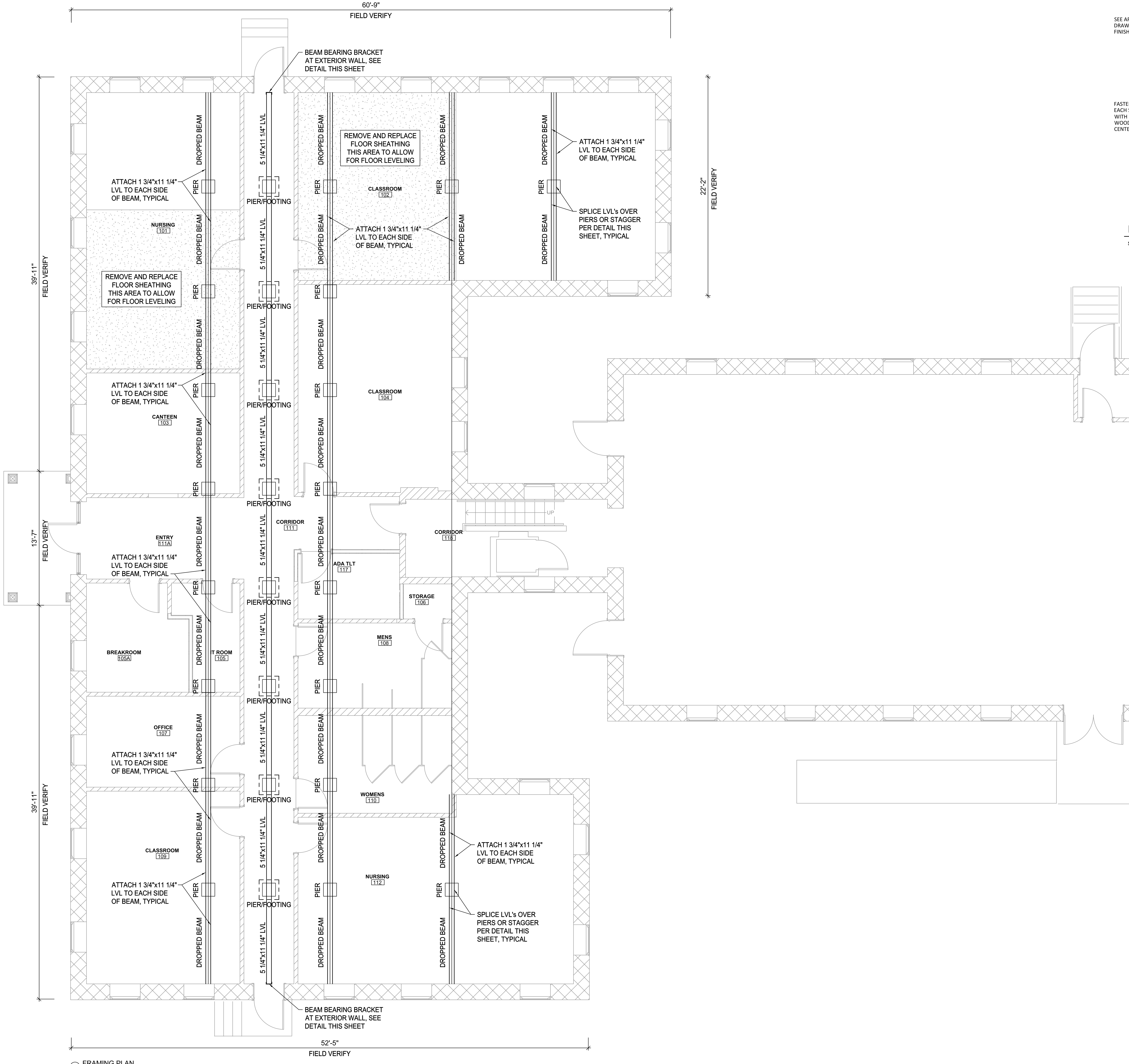
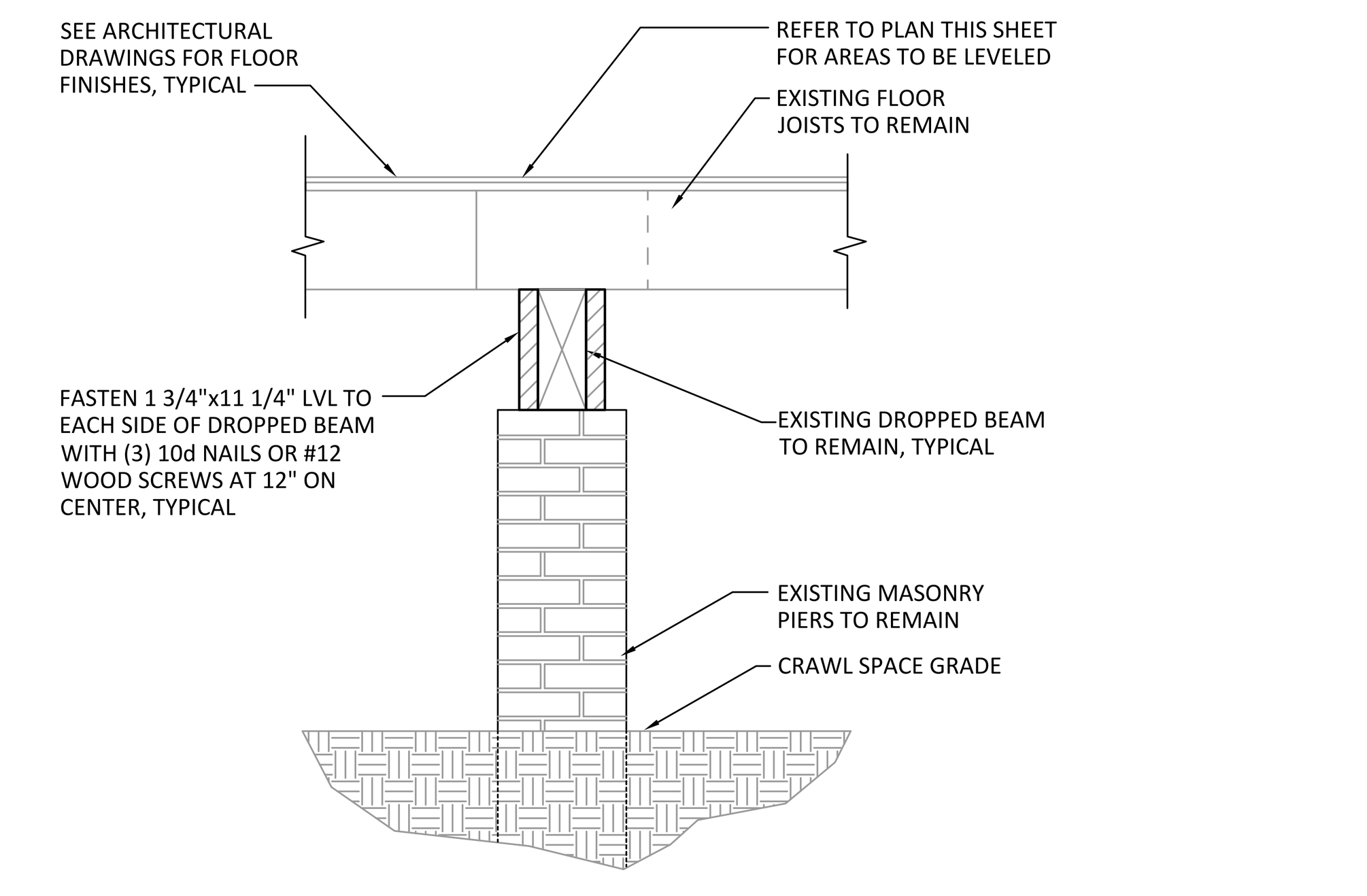
EXISTING AND DEMOLITION PLAN, NOTES

24-021

S1.0

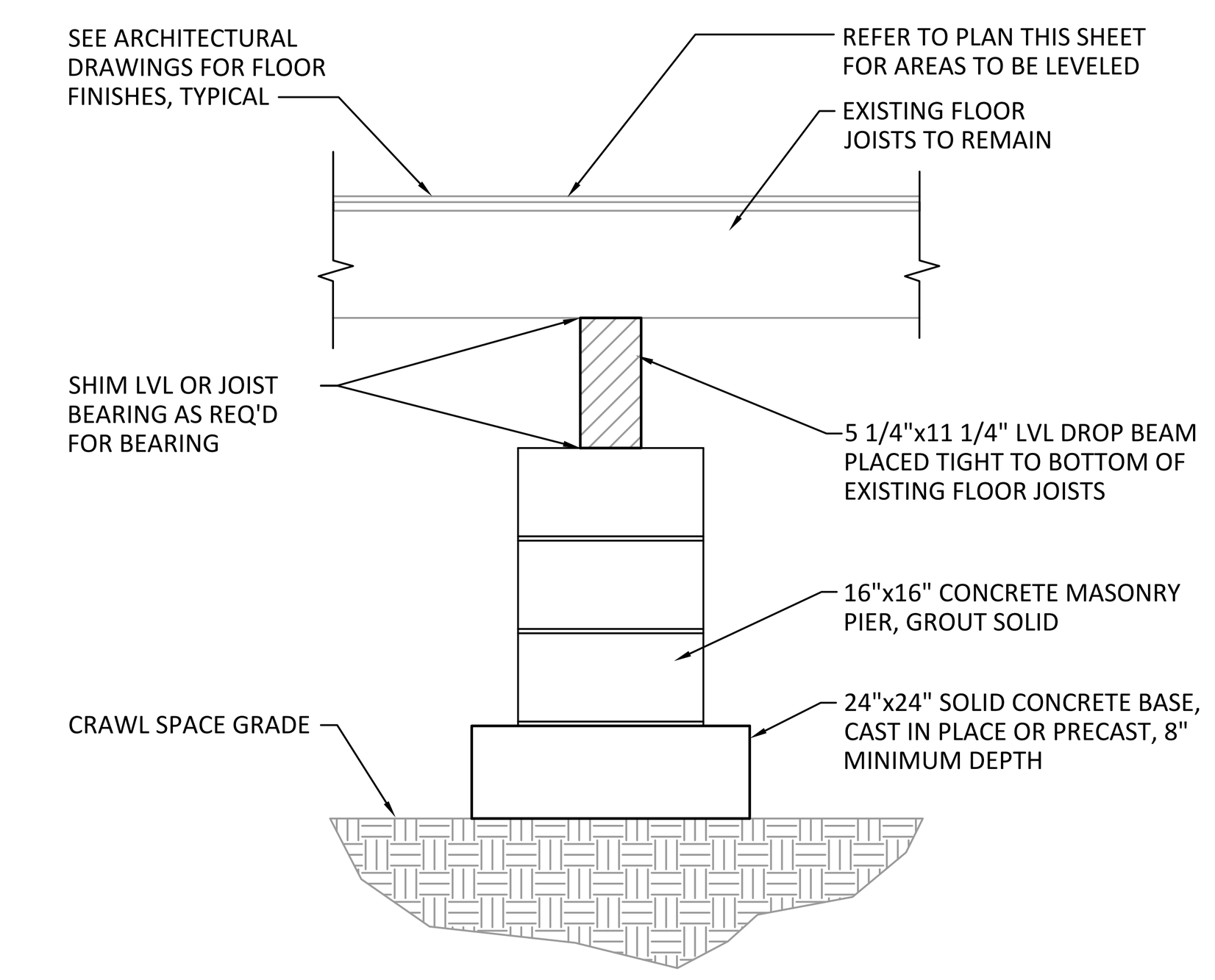


1 FRAMING PLAN
1/4" = 1'-0"



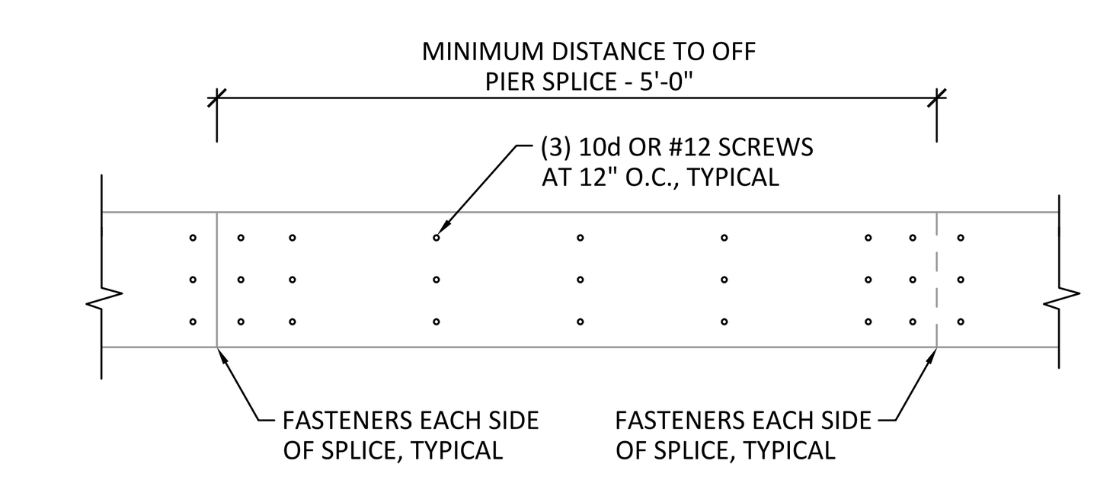
NEW LVL'S TO EXISTING DROPPED BEAMS

SCALE: 3/4" = 1'-0"



NEW LVL'S AND CMU PIERS

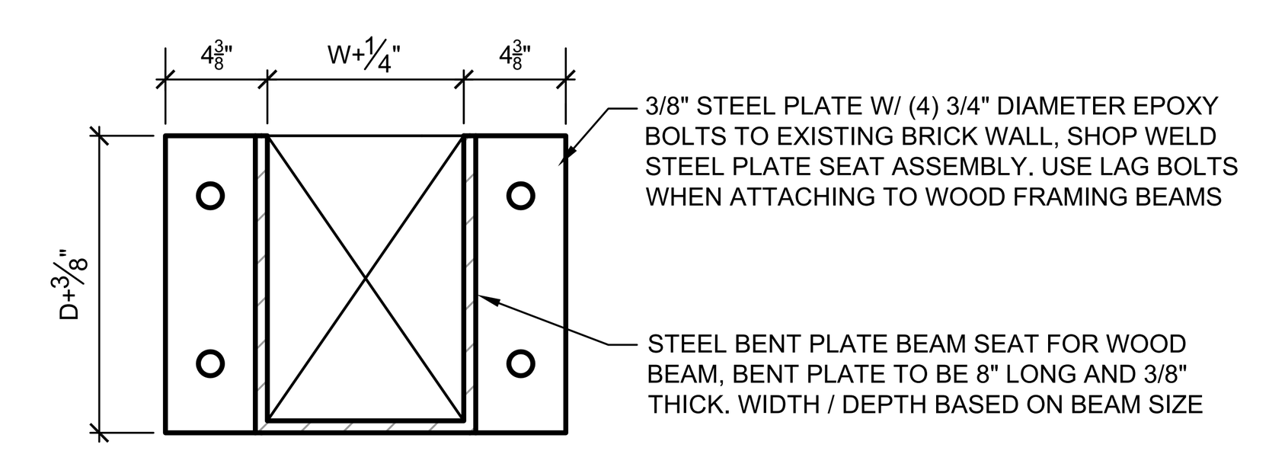
SCALE: 3/4" = 1'-0"



SPLICE LVL's OVER PIERS TO GREATEST EXTENT POSSIBLE. OFF PIER SPLICES SHALL HAVE 5'-0" MINIMUM OFFSET

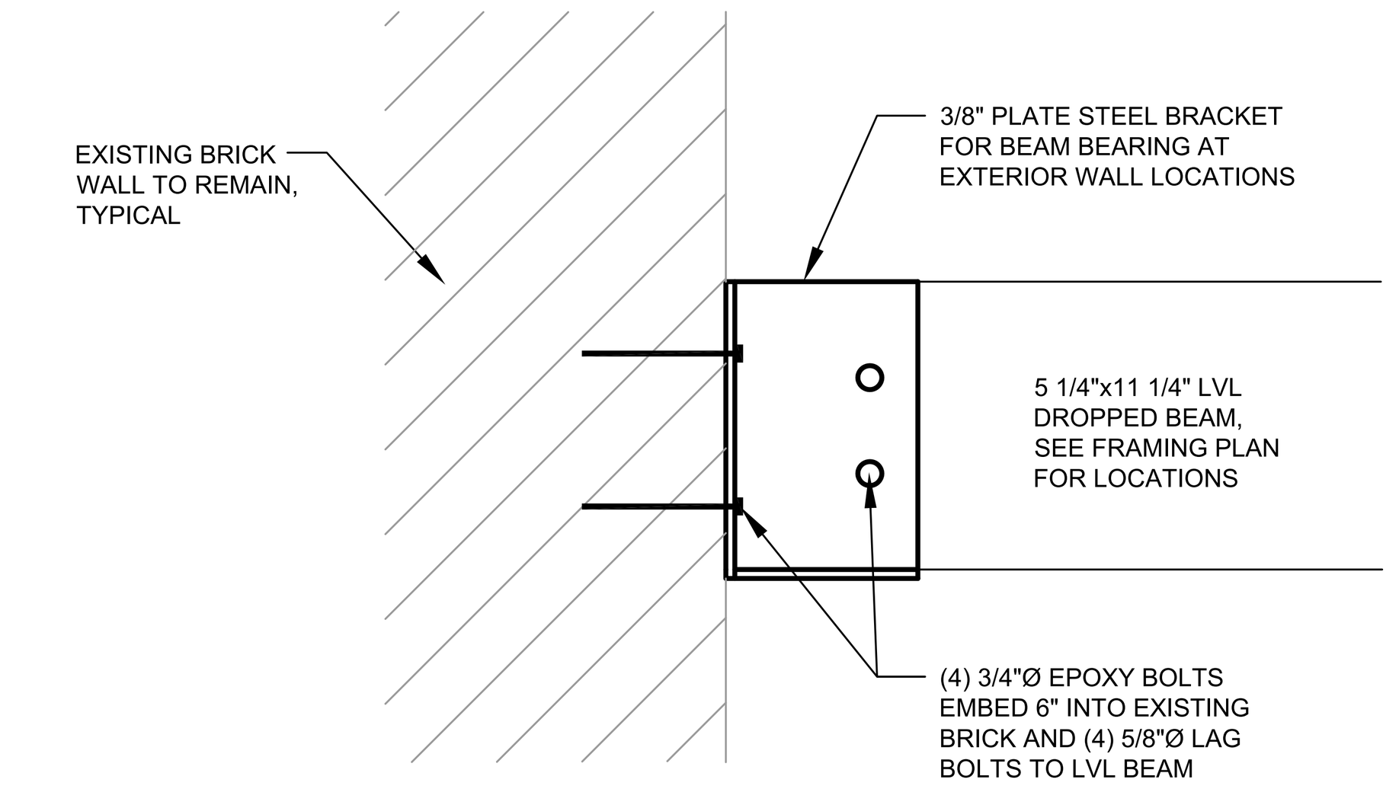
TYPICAL LVL SPLICE DETAIL

SCALE: 3/4" = 1'-0"



WOOD BEAM BRACKET DETAIL

SCALE: 1 1/2"=1'-0"



BEAM BEARING DETAIL WITH BRACKET

SCALE: 1 1/2"=1'-0"

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FRAMING PLAN AND DETAILS

24-021

S1.1

ELECTRICAL SYMBOL SCHEDULE - GENERAL

GENERAL

LP1–2,4	BRANCH CIRCUIT RACEWAY. RUN CONCEALED IN CEILING OR WALLS. ARROWHEAD DENOTES HOMERUN TO PANEL. CROSSLINES DENOTE NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO ARE TO BE INSTALLED. TEXT DENOTES PANEL NAME AND CIRCUIT NUMBERS FOR HOMERUN. INSTALL GROUND WIRE IN ALL RACEWAYS. #12 AWG MINIMUM AND AS PER CODE.
LP1–2,4	BRANCH CIRCUIT RACEWAY. RUN IN OR UNDER SLAB OR FLOOR. ARROWHEAD DENOTES HOMERUN TO PANEL. CROSSLINES DENOTE NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO ARE TO BE INSTALLED. TEXT DENOTES PANEL NAME AND CIRCUIT NUMBERS FOR HOMERUN. INSTALL GROUND WIRE IN ALL RACEWAYS. #12 AWG MINIMUM AND AS PER CODE.
TCB*	PLYWOOD TELECOM BACKBOARD. SEE DETAIL.
PP1	ELECTRICAL DISTRIBUTION OR BRANCH CIRCUIT PANELBOARD. TEXT DENOTES NAME, REFER TO DRAWINGS FOR LOCATION. SEE POWER RISER DIAGRAM AND PANEL SCHEDULES. SURFACE OR FLUSH MOUNTED AS INDICATED ON PANEL SCHEDULE.
CP	SIGNAL SYSTEM OR OTHER ELECTRICAL CONTROL OR COMMUNICATIONS CABINET. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILS.
J	JUNCTION BOX, FLUSH WALL MOUNTED IN FINISHED WALLS, SURFACE MOUNTED WHERE INDICATED ON DRAWINGS. MINIMUM 4" SQUARE WITH APPROPRIATE REDUCING RING FOR DEVICE BEING INSTALLED. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL WHERE MOUNTING HEIGHT IS NOT INDICATED ON DRAWINGS. SIZE PER NEC.
J	JUNCTION BOX, CEILING MOUNTED. SIZE PER NEC.

GENERAL NOTES ALL DRAWINGS:

1. DO NOT SCALE DRAWINGS. LOCATE OUTLETS, EQUIPMENT AND OTHER ELECTRICAL DEVICES AS INDICATED AND COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. MINIMUM SIZE CONDUCTOR FOR POWER SHALL BE #12 AWG. PROVIDE DEDICATED NEUTRAL FOR EACH MULTI–WIRE BRANCH CIRCUIT IN COMPLIANCE WITH NEC.
3. ALL FUSES SHALL BE DUAL–ELEMENT TYPE, "FUSETRON" BY BUSSMAN, "ECON" BY ECONOMY, OR FERRAZ SHAWMUT.
4. BRANCH CIRCUIT SIZES ARE #12 AWG, 1/2"C. UNLESS OTHERWISE NOTED IN PANELBOARD SCHEDULES OR ON DRAWINGS.
5. ALL BRANCH CIRCUIT LOADS SHALL BE BALANCED ACROSS PANELBOARD BUSSES TO OBTAIN MINIMUM NEUTRAL CURRENT.
6. ALL FLEXIBLE CONDUIT SHALL CONTAIN A GREEN WIRE BONDED TO RIGID RACEWAY, BOX OR FIXTURE AT EACH END OF FLEX. SIZE GROUND PER NEC TABLE 250–122.
7. PROVIDE PULL STRING IN ALL EMPTY RACEWAYS.
8. COORDINATE WITH OTHER TRADES TO CONCEAL ELECTRICAL WORK AND PROVIDE OUTLETS IN CORRECT LOCATIONS.
9. DO NOT FLUSH MOUNT JUNCTION BOXES BACK TO BACK, STAGGER TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.
10. CONCEAL OUTLETS FOR ALL EQUIPMENT IN FINISHED AREAS. OBTAIN ROUGHING DIAGRAMS FOR ALL EQUIPMENT AND INSTALL ELECTRICAL WORK ACCORDING TO DIAGRAMS.
11. MOUNT BRACKET TYPE LIGHTING FIXTURES AT HEIGHTS SHOWN OR SCHEDULED ON DRAWINGS OR AS DIRECTED ON JOB BY ARCHITECT UNLESS NOTED OTHERWISE.
12. SEAL ALL PENETRATIONS THROUGH RATED WALLS AND CEILINGS WITH UL LISTED FIREPROOFING SYSTEM. THIS IS TO INCLUDE BUT IS IN NO WAY LIMITED TO CONDUCTOR, RACEWAY AND DEVICE PENETRATIONS. SUBMIT SYSTEM AND INSTALLATION DETAILS AS PART OF SHOP DRAWING SUBMITTAL.
13. WHERE NOT INDICATED OTHERWISE, EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED PER NEC TABLE 250–122.
14. ALL METAL CONDUITS 1" AND LARGER SHALL HAVE A GROUNDING BUSHING BONDING CONDUIT TO ENCLOSURE.
15. REMOVE DRYWALL DUST AND MUD FROM THE INTERIOR OF BOXES BEFORE INSTALLING DEVICES.
16. AT SUBSTANTIAL COMPLETION CLEAN ALL LIGHT FIXTURES AND CLEAN ALL DEVICES IN THE CONSTRUCTION AREAS. REPLACE DAMAGED DEVICES AND DEVICE PLATES AS NEEDED.
17. VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS WITH MECHANICAL PLANS. IF MECHANICAL EQUIPMENT BEING PROVIDED DOES NOT MATCH DESIGN NOTIFY ENGINEER IMMEDIATELY.
18. CONCEAL ALL CONDUIT AND RACEWAY. IF CONDITIONS REQUIRE CONDUIT OR RACEWAY TO BE RUN EXPOSED COORDINATE ROUTING WITH ARCHITECT AND PAINT AS REQUIRED BY ARCHITECT.
19. ALL RACEWAYS TRANSITIONING BETWEEN CONDITIONED AND UNCONDITIONED SPACES AND RACEWAYS EXITING BUILDING SHALL BE SEALED IN ACCORDANCE WITH NEC. USE POLYWATER FST DUCT SEALANT SYSTEM OR EQUIVALENT.
20. ELECTRICAL WORK SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES, REQUIREMENTS AND ORDINANCES.
21. ALL BACKBOXES SHALL BE MINIMUM 4" SQUARE.
22. ALL EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE WITH INSULATED THROAT.
23. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE BLOCKING AT ALL WALL MOUNTED DEVICES (TELEVISIONS, ETC.).
24. PROVIDE PLASTIC ENGRAVED NAMETAGS FOR ALL ELECTRICAL GEAR, INCLUDING DISCONNECT SWITCHES. INDICATE EQUIPMENT NAME, EQUIPMENT SERVED (WHERE APPLICABLE), FEEDER SOURCE AND CIRCUIT, VOLTAGE. LETTERING SHALL BE 3/8" IN HEIGHT, WHITE ON BLACK BACKGROUND.
25. PROVIDE LABELS INDICATING CIRCUIT NUMBER AND SOURCE FOR ALL 120V AND GREATER DEVICES. LABELS SHALL BE THERMAL TRANSFER TYPE, 3/8" WITH 1/4" LETTERING. WHITE BACKGROUND FOR BLACK DEVICES, CLEAR BACKGROUND OTHERWISE.
26. SLEEVE ALL RACEWAY PENETRATIONS THROUGH SLABS, EXTERIOR WALLS/FOUNDATIONS AND SIMILAR. COORDINATE ALL PROPOSED PENETRATIONS WITH STRUCTURAL ENGINEER AND ARCHITECT.
27. PRIOR TO ROUGHING–IN RACEWAYS, ELECTRICAL CONTRACTOR SHALL INSTALL AND LABEL BACKBOXES FOR ALL ELECTRICAL DEVICES (POWER, COMMUNICATIONS, ETC). ELECTRICAL CONTRACTOR SHALL SCHEDULE A TIME WITH THE GENERAL CONTRACTOR FOR THE ARCHITECT AND OWNER REPRESENTATIVE TO WALK THROUGH AND APPROVE LOCATIONS.
28. IF REQUIRED BY THE FIRE CODE OFFICIAL PER 2021 IFC 1103.2, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE IN THE PROPOSAL OR BID THE COST OF AN INITIAL SITE SURVEY AND COST FOR THE COMPLETE DESIGN AND INSTALLATION OF A UL 2524 LISTED NFPA 72, NFPA 1221 AND IFC COMPLIANT BI–DIRECTIONAL AMPLIFIER SYSTEM (BDA) FOR THE FACILITY COMPATIBLE WITH THE REQUIREMENTS OF THE TWO–WAY COMMUNICATIONS SYSTEM(S) UTILIZED BY THE LOCAL JURISDICTION. THE SYSTEM SHALL BE STAND ALONE IN THE ABSENCE OF A BUILDING FIRE ALARM SYSTEM OR SHALL INTEGRATE WITH THE BUILDING FIRE ALARM SYSTEM. THE COST OF THE SYSTEM SHALL BE PROVIDED AS A SEPARATE LINE ITEM SO THAT IF THE SYSTEM IS DETERMINED NOT TO BE REQUIRED AFTER THE PRICE PROPOSAL OR BID HAS BEEN ACCEPTED THE SYSTEM COST CAN BE REMOVED FROM THE PROJECT.

ELECTRICAL SYMBOL SCHEDULE - LIGHTING SYSTEMS AND ACCESSORIES

LIGHTING

A	CEILING MOUNTED LIGHT FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. SEE RECESSED LAY–IN FIXTURE DETAIL FOR LAY–IN FIXTURES MOUNTED IN CEILING GRID. LETTER DENOTES FIXTURE TYPE.
A	STRIP FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. LETTER DENOTES FIXTURE TYPE.
A	WALL MOUNTED FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE. MOUNTING HEIGHTS AS INDICATED ON DRAWINGS OR IN LIGHT FIXTURE SCHEDULE OR AS DIRECTED BY OWNER. LETTER DENOTES FIXTURE TYPE. PROVIDE COLD WEATHER BALLASTS FOR ALL FIXTURES LOCATED OUTDOORS.
A	CEILING MOUNTED FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND MOUNTING. PROVIDE MOUNTING HARDWARE APPROPRIATE FOR TYPE OF CEILING WHERE FIXTURE IS INSTALLED. SEE ARCHITECTURAL REFLECTED CEILING PLAN. LETTER DENOTES FIXTURE TYPE.
A	PENDANT MOUNTED FIXTURE. SECURE TO STRUCTURE WITH APPROPRIATE MOUNTING HARDWARE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE. SUSPENSION TYPE AND LENGTH AS INDICATED ON DRAWINGS OR IN LIGHT FIXTURE SCHEDULE OR AS DIRECTED BY ARCHITECT. LETTER DENOTES FIXTURE TYPE.
	LED EXIT SIGN, WALL OR CEILING MOUNTED, STEM DENOTES WALL MOUNTED. FACES AS INDICATED BY DARKENED AREAS. ARROWS DENOTE CHEVRONS INDICATING DIRECTION OF EXIT AS INDICATED ON DRAWINGS. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE.
	LED EXIT SIGN WITH HIGH OUTPUT BATTERY CAPABLE OF POWERING DUAL REMOTE EGRESS HEADS AT BUILDING EXTERIOR. EXIT SIGN DOES NOT INCLUDE INTEGRAL EGRESS LAMP HEADS FOR INTERIOR. WALL OR CEILING MOUNTED, STEM DENOTES WALL MOUNTED. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE.
$	120–277V, 20A SINGLE POLE LIGHT SWITCH. HEAVY DUTY TYPE. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS.
$D	120–277V, 20A DIMMER LIGHT SWITCH. WITH ON–OFF–PRESET FUNCTIONALITY. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS. COORDINATE WITH LIGHTING VENDOR TO PROVIDE TESTED AND APPROVED DIMMER FOR LIGHT FIXTURE AND SOURCE BEING CONTROLLED. PROVIDE SEPARATE BACKBOX FOR EACH DIMMER SWITCH. SUBSCRIPT "3" DENOTES 3–WAY DIMMER TYPE.
$M	120–277V, 20A, 1HP @ 120V MOTOR RATED TOGGLE SWITCH. HEAVY DUTY TYPE. PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS. 30A/2HP RATED WHERE INDICATED ON DRAWINGS.
OC	CEILING MOUNTED LOW VOLTAGE 360° COVERAGE OCCUPANCY SENSOR, DUAL TECHNOLOGY UNLESS OTHERWISE NOTED ON DRAWINGS. WATTSTOPPER DT–300/305 OR EQUIVALENT. "P" DENOTES PASSIVE INFRARED TYPE (WATTSTOPPER CI–300/305), "U" DENOTES ULTRASONIC TYPE (WATTSTOPPER WT SERIES). PROVIDE QUANTITY OF POWER PACKS AS REQUIRED TO SUIT LOAD. PROVIDE SIGNAL CABLING AS REQUIRED TO LINK MULTIPLE SENSORS/POWER PACKS SERVING COMMON AREA OR LIGHTING ZONE.
OC	WALL MOUNTED LOW VOLTAGE OCCUPANCY SENSOR, DUAL TECHNOLOGY UNLESS OTHERWISE NOTED ON DRAWINGS. WATTSTOPPER DT–200/205 OR EQUIVALENT. "P" DENOTES PASSIVE INFRARED TYPE (WATTSTOPPER CX–100/105). PROVIDE QUANTITY OF POWER PACKS AS REQUIRED TO SUIT LOAD. PROVIDE SIGNAL CABLING AS REQUIRED TO LINK MULTIPLE SENSORS/POWER PACKS SERVING COMMON AREA OR LIGHTING ZONE. MOUNT 12" BELOW FINISHED CEILING UNLESS OTHERWISE NOTED ON DRAWINGS FOR ALL CEILINGS 12' AND UNDER.
OC LR	WALL OR CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR WITH EXTENDED RANGE COVERAGE FOR USE IN HALLWAYS AND CORRIDORS. PASSIVE INFRARED, SENSOR SWITCH #HW13 OR EQUIVALENT. PROVIDE QUANTITY OF POWER PACKS AS REQUIRED TO SUIT LOAD. PROVIDE SIGNAL CABLING AS REQUIRED TO LINK MULTIPLE SENSORS/POWER PACKS SERVING COMMON AREA OR LIGHTING ZONE. MOUNT ON WALL 12" BELOW FINISHED CEILING OR BRACKET MOUNT TO CEILING AS INDICATED ON DRAWINGS.
S##	WALL MOUNTED DIGITAL NETWORK LIGHTING CONTROL SWITCH FOR USE WITH RELAY PANEL LIGHTING CONTROL SYSTEMS. QUANITY OF BUTTONS AND PROGRAMMING AS INDICATED ON DRAWINGS AND IN RELAY PANEL SCHEDULE. PROGRAMMING PER SCHEDULE UNLESS OTHERWISE DIRECTED BY OWNER. PROVIDE NETWORK CABLING LINKING SYSTEM SWITCHES, PANELS AND COMPONENTS AS REQUIRED BY MANUFACTURER. SEE RELAY LIGHTING CONTROL RISER DIAGRAM AND SPECIFICATIONS.
D##	WALL MOUNTED DIGITAL NETWORK DIMMER CONTROL STATION SWITCH FOR USE WITH CENTRAL DIMMING PANEL CONTROL SYSTEMS. SEE DIMMING CONTROL SCHEMATIC AND SCHEDULE FOR DEVICE AND CONTROL TYPE. PROGRAMMING PER SCHEDULE AND DRAWINGS UNLESS OTHERWISE DIRECTED BY OWNER. PROVIDE NETWORK CABLING LINKING SYSTEM CONTROL STATIONS, DIMMING PANELS AND OTHER COMPONENTS AS REQUIRED BY MANUFACTURER. SEE DIMMING CONTROL RISER DIAGRAM AND SPECIFICATIONS.

ELECTRICAL SYMBOL SCHEDULE - POWER

POWER

	120V, 20A DUPLEX RECEPTACLE, NEMA 5–20R. WALL MOUNTED, REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS.
	120V, 20A DUPLEX RECEPTACLE, NEMA 5–20R. WALL MOUNTED AT 42" AFF OR MINIMUM 6" ABOVE COUNTERTOP BACKSPLASH UNLESS OTHERWISE NOTED. REFER TO ADDITIONAL NOTATIONS BELOW WHERE INDICATED ON DRAWINGS. "TV" INDICATES MOUNT ADJACENT TO CATV OUTLET.
	EXISTING 120V, 20A DUPLEX RECEPTACLE MOUNTED IN FLUSH FLOOR BOX.
	120V, 20A DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED CEILING. SECURE BACKBOX TO CEILING MEMBERS AND TO STRUCTURE AS REQUIRED. CEILING MOUNTED RECEPTACLES SHALL NOT BE INSTALLED ABOVE FINISHED CEILINGS PER NEC.
	ELECTRIC MOTOR OR EXHAUST FAN. PROVIDE LOCAL MEANS OF DISCONNECT PER NEC RATED TO SUIT LOAD WHERE NOT FACTORY EQUIPPED. CONNECT AS REQUIRED.
	PUSH PLATE OR OTHER CONTROL DEVICE AS REQUIRED TO OPERATE EQUIPMENT INDICATED ON DRAWINGS OR IN KEYNOTES. PROVIDE SEPARATE RACEWAYS FOR POWER AND CONTROL WIRING AS REQUIRED. 3/4"C MINIMUM FOR CONTROL OR SIGNAL CABLING.

WIRING DEVICE TYPICAL NOTATIONS

GF	GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE.
GF WP	GROUND FAULT CIRCUIT INTERRUPTER TYPE WITH CAST WEATHERPROOF IN–USE TYPE COVER. ALL RECEPTACLES LOCATED OUTDOORS OR EXPOSED TO THE ELEMENTS SHALL BE WEATHER RESISTANT LISTED WITH "WR" LISTING ON FACE OF DEVICE BY FACTORY.

ELECTRICAL SYMBOL SCHEDULE - COMMUNICATIONS

COMMUNICATIONS

	COMBINATION DATA/TELEPHONE OUTLET LOCATION. REFER TO TYPICAL MOUNTING HEIGHTS DETAIL. PROVIDE 1"C WITH PULL STRING TO ABOVE ACCESSIBLE CEILING.
	SAME AS ABOVE EXCEPT MOUNTED AT COUNTERTOP HEIGHT. MOUNT AT 42" AFF OR MINIMUM 6" ABOVE COUNTERTOP BACKSPLASH UNLESS OTHERWISE NOTED ON DRAWINGS.
	WALL MOUNTED TELEPHONE OUTLET LOCATION, MOUNTED AT COUNTERTOP HEIGHT OR AT 48" AFF WHERE NOT LOCATED ABOVE A COUNTERTOP UNLESS OTHERWISE NOTED ON DRAWINGS. PROVIDE 3/4"C WITH PULL STRING TO ABOVE ACCESSIBLE CEILING.
SP SP	SPEAKER CEILING MOUNTED. STEM INDICATES WALL MOUNTED.
M	MICROPHONE JACK WALL MOUNTED.
AV	AV CONTROLS WALL MOUNTED.

ELECTRICAL SYMBOL SCHEDULE - FIRE ALARM

FIRE ALARM

F	FIRE ALARM PULL STATION. SEE SPECIFICATIONS.
15	FIRE ALARM HORN/STROBE. NUMBER INDICATES CANDELA RATING. SEE SPECIFICATIONS.
15	FIRE ALARM STROBE ONLY. NUMBER INDICATES CANDELA RATING. SEE SPECIFICATIONS.
15	FIRE ALARM CEILING MOUNTED HORN/STROBE. NUMBER INDICATES CANDELA RATING. SEE SPECIFICATIONS. WHITE HOUSING.
15	FIRE ALARM CEILING MOUNTED STROBE ONLY. NUMBER INDICATES CANDELA RATING. SEE SPECIFICATIONS. WHITE HOUSING.
SD	CEILING MOUNTED SMOKE DETECTOR. SEE SPECIFICATIONS. "RB" DENOTES TO PROVIDE WITH RELAY BASE FOR AUXILIARY OUTPUT TO INDICATOR LIGHT OR OTHER DEVICE AS INDICATED.
HD	CEILING MOUNTED HEAT DETECTOR. SEE SPECIFICATIONS.
DD	DUCT SMOKE DETECTOR WITH SAMPLING TUBE. FURNISHED BY DIV. 16, INSTALLED BY DIV. 15 ON RETURN OR RETURN AND SUPPLY AS REQUIRED, SEE DIV 15 DRAWINGS AND COORDINATE. "WP" DENOTES WEATHERPROOF HOUSING FOR OUTDOOR UNITS. PROVIDE REMOTE TEST BUTTON AND INDICATOR LED IN CEILING OF CORRIDOR.
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL. SEE SPECIFICATIONS.
	MAIN FIRE ALARM CONTROL PANEL. SEE RISER DIAGRAM AND SPECIFICATIONS.
DH	MAGNETIC DOOR HOLD OPEN DEVICES. INTERFACE WITH FIRE ALARM TO RELEASE IN THE EVENT OF ALARM.

ELECTRICAL SYMBOL SCHEDULE - ACCESS CONTROLS/SECURITY

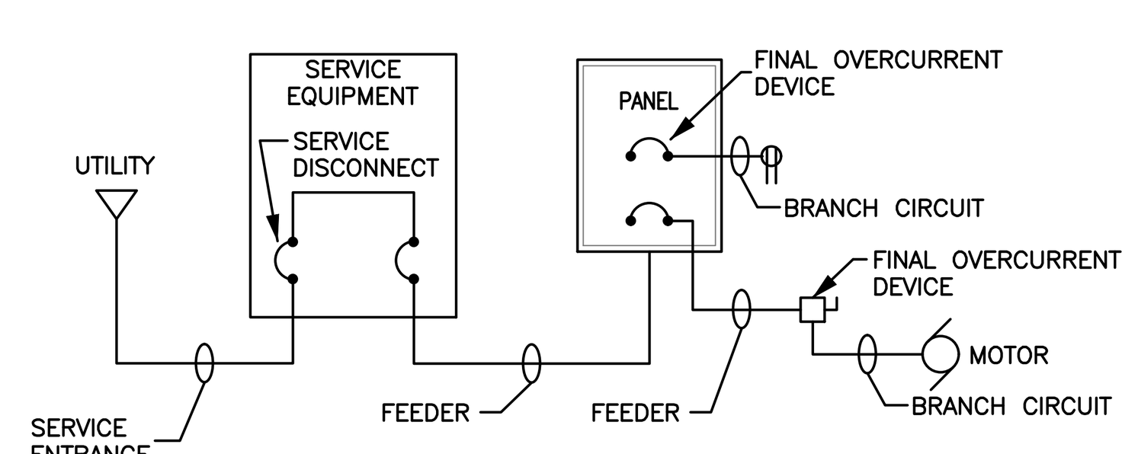
ACCESS CONTROL/SECURITY

	SECURITY CAMERA LOCATION. PROVIDE 3/4"C WITH PULL STRING TO ELECTRICAL ROOM. PROVIDE BACKBOX PER ACCESS CONTROL/SECURITY VENDOR REQUIREMENTS.

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	ARC FAULT CIRCUIT INTERRUPTER
BKR	BREAKER
C	CONDUIT
CATV	CABLE TELEVISION
CKT	CIRCUIT
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
FCU	FAN COIL UNIT
GC	GENERAL CONTRACTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
IG	DEVICE SHALL HAVE ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
JB or J–BOX	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MFR	MANUFACTURER
NMC	NONMETALLIC–SHEATHED CABLE
V	VOLT
NEC	2020 NATIONAL ELECTRICAL CODE, (NFPA 70)
SWBD	SWITCHBOARD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WC	WATER COOLER
XFMR	TRANSFORMER

RACEWAY MATERIAL SCHEDULE



RACEWAY MATERIALS:

SERVICE ENTRANCE: IMC, GRS, SCHED 40 PVC (WITH GRS 90 ELBOWS). IMC AND GRS TO HAVE BITUMINOUS COATING IF INSTALLED BELOW GRADE.

SERVICE ENTRANCE WHERE EXPOSED TO PHYSICAL DAMAGE OR ABOVE GRADE: IMC, GRS, SCHEDULE 80 PVC, EMT (INTERIOR).

FEEDERS: IMC, GRS, EMT (INTERIOR)

BRANCH CIRCUITS CONCEALED ABOVE CEILING/IN WALLS: AC/MC CABLE*, EMT, IMC, GRS.

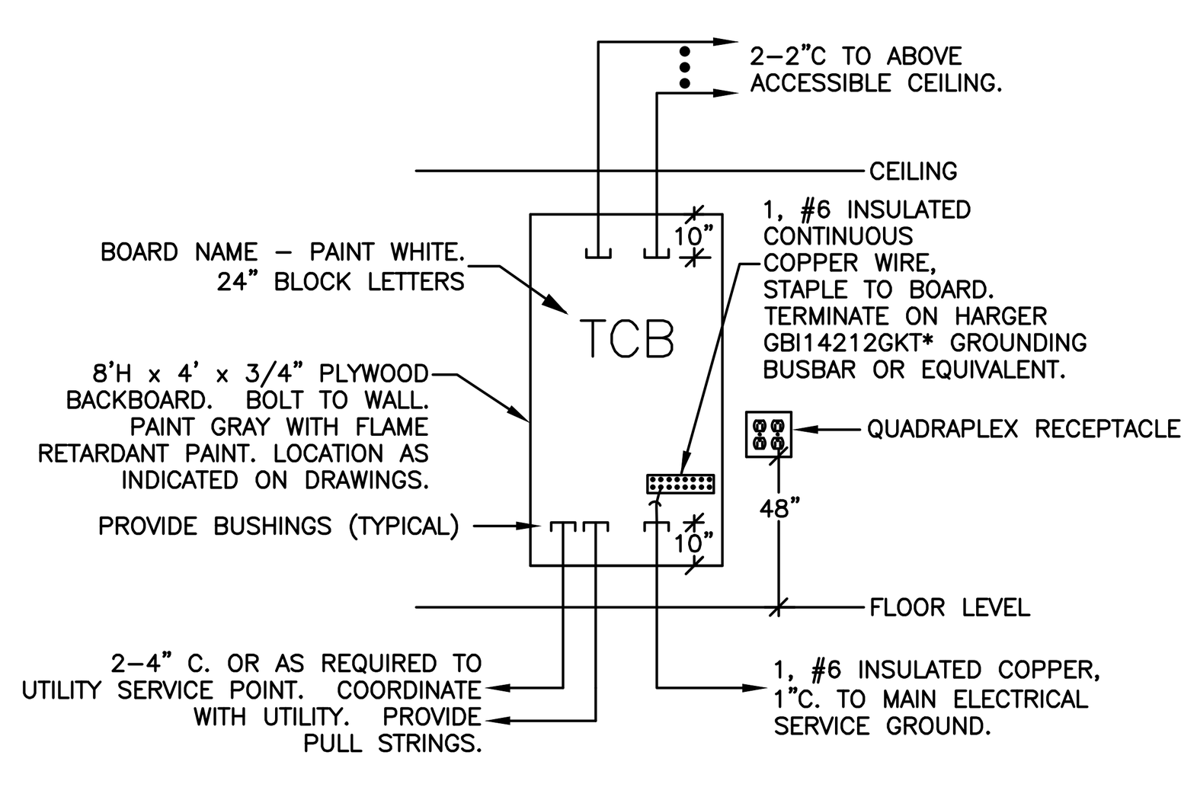
BRANCH CIRCUITS EXPOSED (INTERIOR): EMT

IN OR UNDER CONCRETE FLOORS: SAME AS SERVICE ENTRANCE.

OUTDOORS BELOW GRADE: SAME AS SERVICE ENTRANCE.

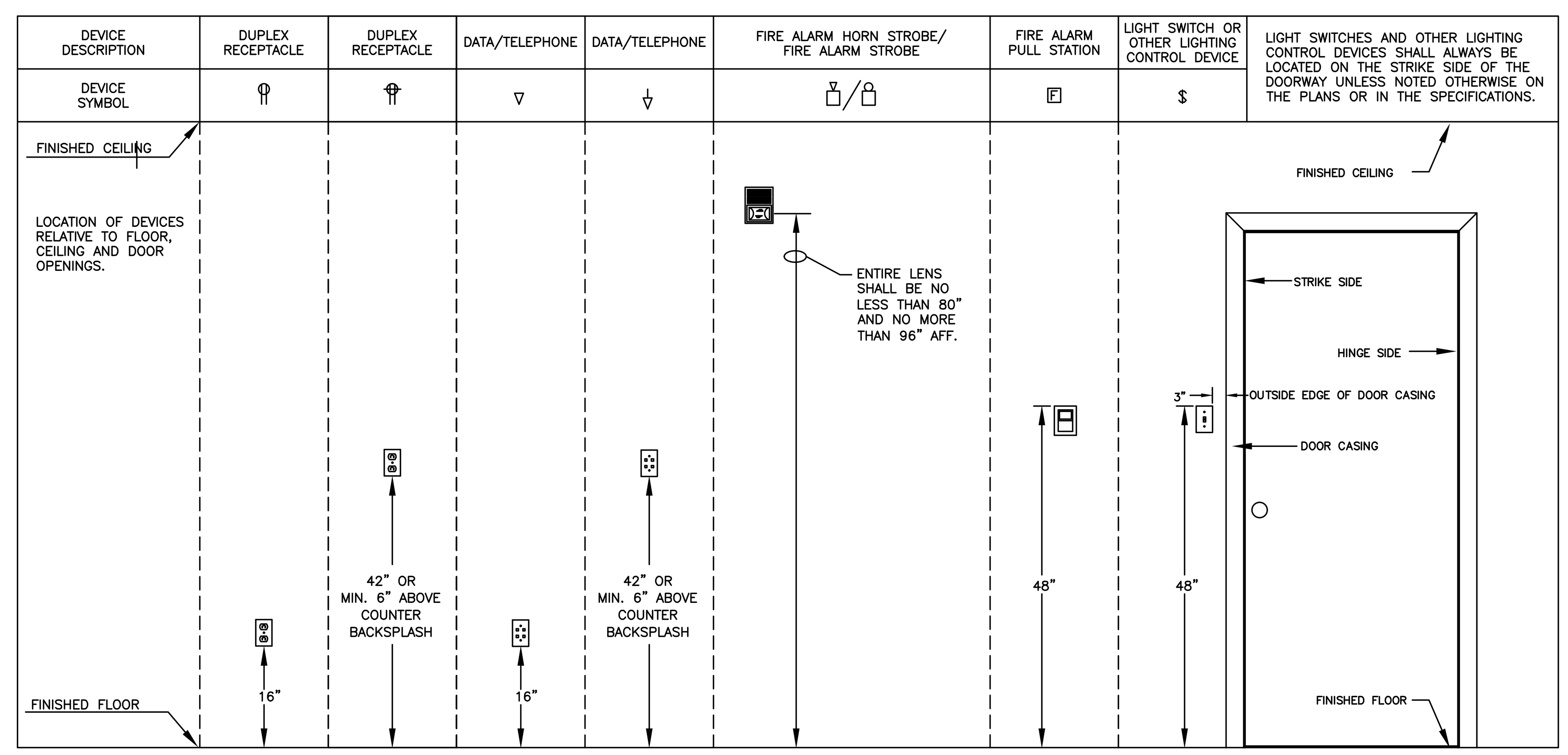
OUTDOORS EXPOSED: IMC, GRS (WITH THE EXCEPTION OF CONNECTIONS TO MECHANICAL EQUIPMENT WHICH MAY BE FLEXIBLE WATERTIGHT CONDUIT).

* WHERE PERMITTED BY CODE.



TELEPHONE BACKBOARD DETAIL

NO SCALE



****ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.****

NOTE: WHERE WALL BLOCKING INTERFERES WITH EXACT MOUNTING HEIGHTS, CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT PRIOR TO ROUGH–IN.

DEVICE MOUNTING HEIGHTS

NO SCALE

DESIGN INITIATIVE GROUP

DESIGN INITIATIVE GROUP
1070 DAVIDSON ROAD
LEXINGTON, SC 29072

MTC HARBISON CE BUILDING RENOVATIONS

7300 COLLEGE STREET
IRMO, SC 29063

09.15.25

ELECTRICAL SCHEDULES & DETAILS

E0.0

ENGINEERING, LLC
Project Manager: Bryson D. Tucker, P.E.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	LAMPS	WATTAGE	NOTES
A35	2'X4' BACKLIT TROFFER PANEL LED, SELECTABLE LUMENS 5500/4400/3300, SELECTABLE CCT 35K/40K/50K.	COLUMBIA LIGHTING #CBT24-LSCS	BY MFR.	45W	
B33	2'X2' BACKLIT TROFFER PANEL LED, SELECTABLE LUMENS 4400/3300/2750, SELECTABLE CCT 35K/40K/50K.	COLUMBIA LIGHTING #CBT22-LSCS SET TO 3300 LUMENS	BY MFR.	30W	
M30	PENDANT MOUNTED 30" SIZE S49. 5000 LUMENS.	BROWNLEE LIGHTING INC #2680-30-BU-S49-WH-35K	BY MFR.	45W	
D12	6" LED DOWNLIGHT, 1200 LUMENS.	ELITE LIGHTING #HH6-LED-1200L-DIM10-MVOLT-WD-40K-90-HH6-6S01-CL-WH	BY MFR.	12W	
WP	EXTERIOR LED WALL PACK. SELECTABLE LUMENS 1500/2800/4000, SELECTABLE CCT 30K/40K/50K SET TO 4000L	ELITE LIGHTING #OWP-FC-116-LED-1500L/2800L/4000L-DIM10-MVOLT-30K/40K/50K-BZ	BY MFR.	12W	
D10	6" ROUND SURFACE LED DOWNLIGHT, WHITE TRIM COLOR, UL DAMP AND WET LOCATION LISTED, 120V, 1000 LUMENS.	ELITE LIGHTING #RL678-1000L-DIMTR-120-40K-90-W-WH	BY MFR.	14W	
	LED EXIT LIGHT, 90 MINUTE MINIMUM BATTERY BACKUP. *HOUSING AND LETTERING COLOR AS DIRECTED BY ARCHITECT.	EMERGI-LITE #ELX SERIES	BY MFR.	2.5W	CONNECT TO LINE SIDE OF ANY SWITCHING VIA LIGHTING CIRCUIT SERVING SAME AREA.
	LED EXIT LIGHT AND REMOTE DUAL HEAD LED EGRESS FIXTURE. 90 MINUTE MINIMUM BATTERY BACKUP. *HOUSING AND LETTERING COLOR AS DIRECTED BY ARCHITECT.	EMERGI-LITE #ELXN400 REMOTE SERIES WITH EF12	BY MFR.	3.3W	CONNECT TO LINE SIDE OF ANY SWITCHING VIA LIGHTING CIRCUIT SERVING SAME AREA.
	DUAL LAMP EMERGENCY EGRESS FIXTURE. MOUNT 7'-6" AFF. WHEN SHOWN AS WALL MOUNTED. 90 MINUTE MINIMUM BATTERY BACKUP. ALLOWS FOR 34FT. SPACING.	EMERGI-LITE #CM-PB-EL SERIES	BY MFR.	1.6W	CONNECT TO LINE SIDE OF ANY SWITCHING VIA LIGHTING CIRCUIT SERVING SAME AREA.

1. OTHER MANUFACTURERS ACCEPTABLE WITH PRIOR APPROVAL OF ENGINEER. SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
2. HALF SHADED FIXTURES AND/OR LABELED "EB" SHALL BE EQUIPPED WITH 90 MINUTE MINIMUM EMERGENCY BATTERY PACK CONNECTED LINE SIDE OF ANY SWITCHING, RELAY, OR OTHER CONTROL DEVICE. EMERGENCY FUNCTION SHALL BE CONNECTED TO NORMAL LIGHTING CIRCUIT SERVING SAME AREA.
3. FIXTURES LABELED "UNS" SHALL BE CONNECTED LINE SIDE OF ANY SWITCHING, RELAY, OR OTHER CONTROL DEVICE. CONNECT TO NORMAL LIGHTING CIRCUIT SERVING SAME AREA.
4. LAMPING COLOR TEMPERATURE PER ARCHITECT AND OWNER REQUIREMENTS.

NAME : EXISTING PANEL A
SYSTEM : NORMAL
TYPE : GENERAL ELECTRIC
INTERRUPTING RATING :

BUS AMPS : 150A
MAIN : M.D
VOLTAGE : 120-240V/1ø
MOUNTING : SURFACE

CKT	CIRCUIT NAME	WIRE	COND	LOAD	BKR	POLES	PHASE	POLES	BKR	LOAD	COND	WIRE	CIRCUIT NAME	CKT
1	R-104 REC--HALLWAY REC				20		A		20				R-112 REC -- HALLWAY REC	2
3	R-103 REC--COFFE MACH				20		B		20				R-102 REC	4
5	R-103				20		A		20				R-103	6
7	R-101 REC				20		B		20				R-103 DRINK MACH	8
9	R-105-107 REC				20		A		20				R-108 REC WC	10
11	LIGHTS HALLWAY				20		B		20				R-107,109 REC	12
13	R-106,108,110 LIGHTS				20		A		20				R-104 LIGHTS	14
15	R-112 LIGHTS				20		B		20				R-101 LIGHTS	16
17	R-102 LIGHTS L				20		A		20				R-109 LIGHTS	18
19	R-102 LIGHTS R				20		B		20				R-103,105,107 LIGHTS	20
21	R-106 REC				20		A						PREPARED SPACE	22
23	RECEPT IT	12	1/2	0.4	20		B		20				HANDICAP LIFT	24
25	RECEPT IT	12	1/2	1.0	20		A		20L	1/2	12		FACP	26
27	PREPARED SPACE						B						PREPARED SPACE	28
29	TRANE CONTROLS						A						PREPARED SPACE	30

CONNECTED LOAD, (KVA): 1.4 + EX

- SUBSCRIPT "L" DENOTES TO LABEL BREAKER AND PROVIDE LOCKING PROVISIONS PER NFPA 72

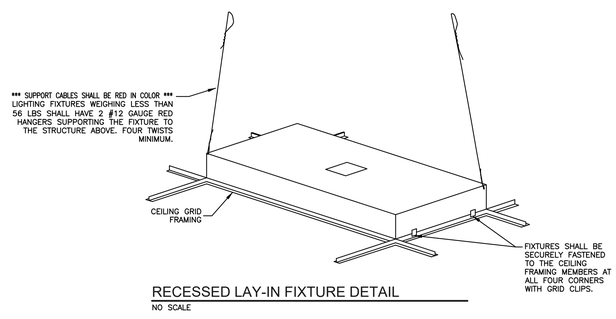
HATCHING DENOTES EXISTING (TYP.)

NAME : EXISTING PANEL B
SYSTEM : NORMAL
TYPE : SIEMENS S1
INTERRUPTING RATING :

BUS AMPS : 125A
MAIN : M.D
VOLTAGE : 120-240V/1ø
MOUNTING : SURFACE

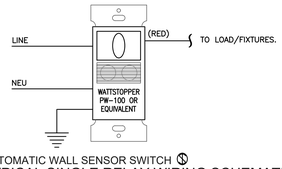
CKT	CIRCUIT NAME	WIRE	COND	LOAD	BKR	POLES	PHASE	POLES	BKR	LOAD	COND	WIRE	CIRCUIT NAME	CKT
1	lights 2nd row				20		A		20				lights 3rd row	2
3	lights 1st row				20		B		20				lights 4th row	4
5	lights 5th row				20		A		20				lights 6th row	6
7	4 ea rec left side				20		B		20				4 ea door lights	8
9	2 ea rec stage				20		A		20				attic lights	10
11	2 ea rec stage				20		B		20				4 ea door lights	12
13	light & rect basement				20		A		20				stage lights	14
15	screen				20		B		20				2 ea lights rec rms end	16
17	rec telephone rm (stage)				20		A		20				phone board	18
19	rec phone rm (btwn doors)				20		B		20				telephone room	20
21	projector rec				20		A		20				telephone room server	22
23	VVE HUB	12	1/2	0.1	20		B		20				telephone room server	24
25	RECEPTS	12	1/2	0.6	20		A		20				telephone room server	26
27	space						B		30				240 volt	28
29	space						A							30
31	space				20		B		20				Phone Rm UPS	32
33	projector rec				20		A							34
35	space				20		B		20				spare	36
37	space						A						space	38
39	space						B						space	40
41	space						A						space	42

CONNECTED LOAD, (KVA): 7 + EX



RECESSED LAY-IN FIXTURE DETAIL

NO SCALE

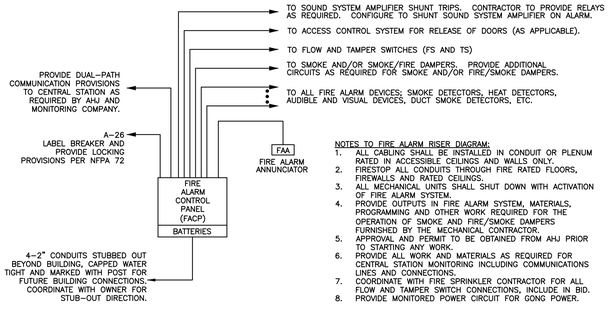


AUTOMATIC WALL SENSOR SWITCH (S)

TYPICAL SINGLE RELAY WIRING SCHEMATIC

NO SCALE

NOTE 1: SCHEMATIC IS REPRESENTATIVE OF WATTSTOPPER PW/DW-100 AND DSW-100. CONNECTION REQUIREMENTS AND COLOR CODING MAY DIFFER BETWEEN MANUFACTURERS. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS.
NOTE 2: WHERE APPLICABLE, CONNECT EXIT SIGNS, BATTERY PACKS FOR EGRESS LIGHTING, AND NIGHT LIGHTS LINE SIDE OF AUTOMATIC WALL SWITCH SENSORS.



NOTES TO FIRE ALARM RISER DIAGRAM:
1. ALL CABLING SHALL BE INSTALLED IN CONDUIT OR PLENUM RATED IN ACCESSIBLE CEILINGS AND WALLS ONLY.
2. FIRESTOP ALL CONDUITS THROUGH FIRE RATED FLOORS, FIREWALLS AND RATED CEILINGS.
3. ALL MECHANICAL UNITS SHALL SHUT DOWN WITH ACTIVATION OF FIRE ALARM SYSTEM.
4. PROVIDE OUTPUTS IN FIRE ALARM SYSTEM, MATERIALS, PROGRAMMING AND OTHER WORK REQUIRED FOR THE OPERATION OF SMOKE AND FIRE/SMOKE DAMPERS FURNISHED BY THE MECHANICAL CONTRACTOR.
5. APPROVAL AND PERMIT TO BE OBTAINED FROM AHJ PRIOR TO STARTING ANY WORK.
6. PROVIDE ALL WORK AND MATERIALS AS REQUIRED FOR CENTRAL STATION MONITORING INCLUDING COMMUNICATIONS LINES AND CONNECTIONS.
7. COORDINATE WITH FIRE SPRINKLER CONTRACTOR FOR ALL FLOW AND TAMPER SWITCH CONNECTIONS, INCLUDE IN BID.
8. PROVIDE MONITORED POWER CIRCUIT FOR GONG POWER.

FIRE ALARM SYSTEM RISER DETAIL

NO SCALE

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IRMO, SC 29063

09.15.25

LIGHTING SCHEDULE & DETAILS

E0.1

ETI ENGINEERING, LLC No. C02936 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

BRYSON D. TUCKER No. 23558 REGISTERED PROFESSIONAL ENGINEER SOUTH CAROLINA
09/15/25

ENGINEERING, LLC
5725 Bush River Road
Columbia, SC 29212
803.233.9396 (Phone)
803.233.4371 (Fax)
Project Manager
Bryson D. Tucker, P.E.
ETI #25103-08516

ELECTRICAL SPECIFICATIONS

1. GENERAL PROVISIONS

A. Work included in these specifications and included on the drawings shall include furnishing all labor, materials, supplies, and equipment to perform all work required including cutting, channeling, chasing, excavating and backfilling, to install a complete and working electrical system(s) in accordance with these sections of the specifications and the accompanying drawings. This shall include all required preparation work, raceways, coordination, etc. required to install the electrical system.

B. The electrical work shall include, but in no way be limited to the following:
1. Raceways (To include raceways for conductors and cables, but also empty for designated signal systems and future uses.)
2. Electrical Distribution System.
3. Exterior and Interior Lighting Systems.
4. Exterior and Interior Power Systems.
5. Wiring Devices.
6. Telephone Raceway System.
7. Data Raceway System.
8. Connection and installation of Equipment Furnished Under Other Divisions of the Specification.
9. Fire Alarm System.
10. Electrical Demolition.

C. The contractor is responsible for including any and all work related to the electrical that is noted in any part of the specifications or any part of the drawings, including Divisions 1, 15 and any other sections. The contractor will supply power to equipment at the voltage indicated on the drawings. The contractor will be held responsible for coordinating the equipment voltages, control equipment, wiring, and locations and type of terminations/connections and/or disconnects required to comply with the National Electrical Code, International Building Code, International Energy Conservation Code, all local codes, and the equipment manufacturer's requirements.

D. Electrical Drawings are diagrammatic in nature except where specific dimensions, or specific details are shown on the electrical, mechanical, or architectural drawings. The contractor shall refer to other drawings for exact locations of equipment, building dimensions, architectural details and conditions affecting the electrical work; however, field measurements take precedence over dimensioned drawings. The Electrical Contractor shall provide all labor and materials and all incidental elements; junction and pull boxes, filters, pull wires, connectors, support materials, fuses, disconnect switches, lamps, and labels, to install, connect, start-up and result in a complete and working system in accordance with the drawings and specifications. The contractor is responsible for coordinating the installation of all electrical work with the work of other contractors and/or trades. The electrical drawings are such that the electrical service to equipment furnished and installed under other sections of the contract documents (examples, include but are not limited to: HVAC equipment, water heaters, fans, pumps, motors, etc) is coordinated for the specified equipment only. If the equipment installed under other divisions of the contract documents is not the specified equipment it is the responsibility of the contractor to coordinate the electrical service/interface requirements with the electrical contractor.

E. Provide all wiring, connectors, fittings, connections, and all accessories for the complete installation of, and final connections to, equipment furnished under other divisions of the specifications and where indicated on the drawings or otherwise specified.

F. All safety disconnect switches shall be provided under Division 16 unless specifically noted on drawings. The electrical contractor shall furnish and install fuses that are sized in accordance to the equipment nameplate of the equipment served.

G. The contractor is responsible for obtaining all required permits and complying with all National (NEC, IBC, NFPA), State, County, and Municipal codes and regulations. This shall include, but not be limited to, the following:
1. Federal Occupational Safety and Health Act (OSHA)
2. NFPA 70 (National Electrical Code)
3. NFPA 101 (Life Safety Code)
4. Americans with Disabilities Act (ADA).
5. International Building Code (IBC).
6. International Fire Code (IFC).
7. NFPA 72.
8. International Energy Conservation Code (IECC).

H. The contractor shall keep a set of construction drawings during the length of the project on which he shall note any and all changes from the original drawings. This record set of drawings shall be updated daily.

I. Electrical Subcontractor shall submit for review by the Engineer detailed shop drawings of all material listed below. All submittal data shall be submitted at one time through the Architect. No material or equipment for which Engineer's review is required shall be delivered to the job site or installed until the Electrical Contractor has in his possession the reviewed and approved shop drawings for the particular material and/or equipment. The Electrical Contractor shall assemble, organize, prepare and review for correctness shop drawings on all materials, equipment, fixtures and devices to be used. If material submitted is the result of "value engineering" or "prior approval" changes, the submittal must contain supporting documentation of the approved changes, otherwise it will be reviewed against the specified products on these plans. The Electrical contractor shall furnish the number of copies specified by the Architect or one (1) PDF copy of shop drawings if no number is specified by the Architect. Shop drawings that are incorrectly submitted, contain errors or omissions, or not in the form and sequence specified shall be rejected as unapproved.

Shop drawings shall contain as cover page a letter by the supplying Vendor stating that the Vendor has received full contract documents and that to the best of his or her knowledge the submittal is in compliance with the contract documents and design intent including all ancillary parts and pieces required for a complete job.

Review of shop drawings in no way relieves the Contractor of his responsibility of quantity, dimensions, weights, means and methods, safety, or coordination with others.

Failure of the Contractor to submit shop drawings to the Engineer with reasonable time for review shall not entitle the Contractor to an extension of contract time. Reasonable review time is fifteen working days unless otherwise specified.

At minimum shop drawings shall be submitted for

1. Lighting fixtures
2. Lighting control systems including relay panel and automatic switches
3. Safety switches
4. Fire Alarm System
5. Basic materials; wire, conduit, fittings, wiring devices
6. Transformers
7. Fuses; include current limiting characteristics

J. Requests for Substitution

Submit requests for substitution to Engineer through Architect in PDF format no fewer than ten (10) working days prior to bid time. Requests shall contain cutsheets, catalog numbers, etc. Any approval will be in writing by the Engineer. Prior approval submittals for lighting shall include adequate photometric and energy use documentation for comparison to specified. Lighting vendor shall submit photometrics (point-to-point on floor plans) with comparison to specified fixtures as requested by Engineer during the review process.

Substituted items will not result in an increase in cost to the Owner.

K. Catalog numbers and names that appear in the specifications or on the plans may be incomplete or obsolete and are for descriptive purposes only. As such they may not indicate all of the parts, pieces and systems required for a complete and operating installation. It is the responsibility of the Electrical Contractor, the Vendor and the Supplier to review the plans, specifications and applications to determine the correct item(s) required to include all installation and support materials and systems for a complete and working installation.

2. FIRE SPREAD PREVENTION MATERIAL

A. The work shall include the requirement to install fire spread prevention material wherever the electrical contractor installs or penetrates a material (wall, etc.) to install electrical equipment or materials.

B. Fire Resistance Rating: Whenever a fire rated wall, floor, floor-ceiling or roof-ceiling assembly is shown with through-penetrations, provide materials and application procedures which have been tested and classified by UL and approved by FM for the assembly.

C. Installation shall be in accordance with the printed instructions as supplied by the manufacturer.

3. RACEWAYS/CONDUITS AND ASSOCIATED EQUIPMENT

A. The work shall include all raceways, conduits, fittings, and all other equipment required to install a raceway system. This shall include, but not limited to the following:
1. Rigid metal conduit and fittings.
2. Electrical metallic tubing and fittings.
3. Flexible metal conduit and fittings.
4. Liquid tight flexible metal conduit and fittings.
5. Non-metallic conduit and fittings.

B. Except where otherwise permitted on drawings route all conductors in conduit.

C. All signal systems shall have their wiring installed in conduit/raceways to above accessible ceiling and in inaccessible ceiling spaces. All cabling exposed above ceiling shall be plenum rated.

Conduit routing and device wiring for signal system components is not shown on the drawings. The contractor shall coordinate with the signal system manufacturer to determine the conduit (size and routing) and wiring requirements to circuit the equipment shown on the drawings.

D. Specified products and their areas of use shall be as described on drawings.

E. Fittings shall be steel compression type, concrete tight for all EMT raceways. For PVC raceways, use slip fittings with glue joints. For rigid galvanized steel and IMC, fittings shall be threaded galvanized iron, heavy steel, concrete tight.

F. Size conduit for conductor type installed; 1/2 inch minimum size.

G. For all empty raceways, furnish and install a nylon pull cord. The nylon pull cord shall be rated for a 200 pound force pull strength.

4. WIRE AND CABLE – 600 VOLTS AND LESS

A. Work shall include the furnishing and installing of all required wire and cable to complete the wiring and electrical system. This shall include, but not be limited to the following:
1. Building wire.
2. Wiring connections and terminations.
3. Communications cabling as specified on drawings.
4. Fire alarm system cabling.

B. Feeders and Branch Circuits Larger Than 6 AWG: Copper, stranded conductor, 600 volt insulation, THHN. Feeders and Branch Circuits 6 AWG and Smaller: Copper conductor, 600 volt insulation, THHN. 6 and 8 AWG, stranded conductor; smaller than 8 AWG, solid conductor. MINIMUM SIZE SHALL BE #12 FOR ALL WIRING ABOVE 48 VOLTS. All conductors in damp or wet locations (including below grade) shall be listed for that use, THWN-2 or equivalent.

C. All cables shall be color coded. Color coding shall be as follows:

120/240 Volt	Phase
Black	A
Red	B
White	Neutral
Green	Ground

D. Each wire or cable in a feeder at its terminal points, and in each pull-box, junction box, and panel gutter through which it passes shall be identified to show the circuit number of the breaker that it connects to. Each common wire, common circuit to common loop of a system, sound system, or any signal system conductor, shall be identified.

E. All installation shall be in accordance with the NEC. All splices shall be in junction boxes and shall be electrically and mechanically secure. Where a circuit home run is shown on the plans without any conductor or raceway identification, it shall be a minimum of 2 # 12, 1 # 12 Ground, 1/2" Conduit. Place an equal number of conductors for each phase of a circuit in same raceway or cable. Splice only in junction or outlet boxes. Neatly train and lace wiring inside boxes, equipment, and panelboards. Perform continuity test on all power and equipment branch circuit conductors. Verify proper phasing connections.

5. WIRING DEVICES

A. The shall include the furnishing and installing of any and all wiring devices required to make a complete and functioning wiring system. See the drawings for symbols and descriptions of devices. Devices specified are to establish a level of quality. All devices shall be best specification grade. Equivalent devices by Pass and Seymore or Leviton are acceptable.

Color of devices shall be per Architect.

B. Duplex receptacle shall be 20 ampere, 120 volt, 2-Pole, 3-Wire, NEMA 5-20R. Unit shall be HBL #5362 or HBL #5362TR (where required).

C. Ground Fault receptacle shall be HBL #GF5362 or HBL #GF5362TR (where required).

D. Light switches other than sweep switches and low voltage button stations shall be 20 ampere, 120-277 volt. Unit shall be HBL #1221 for SPST, HBL #1223 for three-way, and HBL #1224 for Four-Way.

E. Installation shall be per NEC. Include ground wire and connection with all receptacle circuits. Quadraplex receptacles shall be two duplex receptacles installed in a two gang box. Install wall switches OFF position down. Install convenience receptacles grounding pole on top. Install devices and wall plates flush and level. Provide GFCI receptacle within 6' of any water source. GFCI receptacles shall not be used to protect non-GFCI receptacles.

F. Wiring Device Plates:
1. Provide over-sized stainless-steel cover plates for all flush mounted devices.
2. Plates for surface mounted devices in unfinished areas shall be steel, galvanized types with beveled edges.
3. Screws securing the plate shall have flush mounted heads (when installed) with finish to match that of the plate.
4. Weather-proof plates shall be constructed with cast aluminum base plates and covers. Hinge pins, springs and screws shall be constructed of stainless steel. Covers shall comply with appropriate UL and NEC requirements for use in wet locations.

6. SECONDARY GROUNDING

A. Work included shall include power system grounding, communication system grounding, and electrical equipment and raceway grounding and bonding. Ground electrical work in accordance with NEC Article 250, local codes as specified herein, and as shown on the drawings.

B. Install equipment grounding conductors in raceway with feeder and branch circuit conductors. Ground interior lighting fixtures with grounding conductor to rigid metal raceways serving them. Flexible metal conduit shall have a ground wire installed with the power conductors. Where connections are made to motors or equipment with flexible metal conduit, grounding conductor shall be stranded copper conductor within the conduit, bonded to the equipment and to the rigid metal raceway system. At each convenience outlet, install a grounding clip attached to the outlet box and leave a sufficient length of #12 wire with green colored insulation to connect to the grounding terminal of the receptacle.

8. TESTING

A. GUARANTEE OF WORK, EQUIPMENT AND MATERIALS
1. The complete system shall be free of faults, short circuits, grounds and open circuits. Balance loads across phases to obtain minimum neutral current in feeders and branch circuits.
2. The Electrical Contractor shall perform inspections and test as herein specified. The Electrical Contractor shall provide all material, equipment, labor and supervision to perform such tests and inspections.
3. It is the intent of these tests to assure that all tested electrical equipment and systems are operational and within industry and the manufacturer's tolerances and is installed in accordance with the design Specifications. The test and inspections shall determine suitability for energization.
Written documentation of the tests and inspections shall be provided and shall include the company name performing the work, project name, date and time of tests, weather and humidity

B. Systems and equipment are to be tested and operated to verify compliance with the requirements of the contract documents and applicable codes.
Equipment, systems, conductors and devices to be tested are as follows:
1. Power Distribution Equipment shown on the one-line (Power Riser) diagram.
a. Proper torque values on lugs and connectors.
b. Proper operation of equipment ground fault protective devices.
2. Conductors - Conductors rated 100 amperes and above.
a. Proper conductor and insulation type
b. Insulation resistance test (Megger) at 1000 volts DC for 1 Minute or per cable manufacturer specifications.
c. Minimum insulation resistance values shall not be less than fifty (50) megohms.

C. Grounding
1. Test ground resistance using the attached rod technique (ART) or the fall of potential method according to IEEE 81 at the service entrance.
2. Verify proper type and size of grounding conductors and proper ground connections.
3. If ground resistance exceeds 10 ohms or values otherwise specified in the Specifications, equipment requirements or General or Special Conditions notify the Engineer immediately. The Electrical Contractor shall be responsible for providing alternate and/or additional means of grounding to reduce the ground resistance to 10 ohms or below at no additional cost.

D. Grounding and Ground Fault Personnel Protection
a. Test ground fault receptacles and ground fault branch circuit breakers.
b. Test ten (10) percent of all 120 volt receptacle outlets for proper wiring.

E. All devices which must be adjusted or set to operate on a schedule (time clocks, program mechanisms, etc.) shall be set prior to substantial completion to operate on schedules directed by the Owner. Instruct the owner on the proper operation of these devices.

10. FIRE ALARM SYSTEM

A. Description
1. This section of the specifications includes the furnishing, installation, and connection of the microprocessor controlled, addressable reporting fire alarm equipment required to form a complete coordinated system ready for operation with automatic reporting of alarms to a monitoring facility contracted with by the Owner. It shall include, but not be limited to, alarm initiating devices, alarm notification appliances, fire alarm control panel, auxiliary control devices, annunciators, power supplies, and wiring for a complete and operable system.
2. The fire alarm system shall comply with requirements of NFPA standard No. 72 for protected premises signaling systems except as supplemented by this specification. The system shall be electrically supervised and monitor the integrity of all conductors. System shall comply with all national, state and local adopted codes and requirements as well as requirements of AHJ.

B. Scope
1. A new addressable reporting, microprocessor controlled fire detection system shall be installed in accordance with the specifications and drawings.
2. Basic Performance:
a. Alarm, trouble and supervisory signals from all intelligent addressable reporting devices shall be encoded onto a Class B Signaling Line Circuit (SLC).
b. Initiation Device Circuits (IDCs) shall be wired Class B.
c. Notification Appliance Circuits shall be wired Class B.
d. Built-in Strobe Synchronization w/ selective silence.
e. Digitized electronic signals shall employ check digits or multiple polling.
f. A single ground or open on the system Signaling Line Circuit (SLC) shall not cause system malfunction, loss of operating power or the ability to report an alarm.
3. Alarm signals arriving at the main FACP shall not be lost following a power failure (or outage) until the alarm signal is processed and recorded.

C. Basic System Functional Operation
When a fire alarm condition is detected and reported by one of the system initiating devices the following functions shall immediately occur:
1. The System Alarm LED shall flash.
2. A local piezo electric signal in the control panel shall sound.
3. A 80-character, backlit LCD display shall indicate all information associated with the Fire Alarm condition, including the type of alarm point and its location within the protected premises.
4. History storage equipment shall log the information associated with each new Fire Alarm Control Panel condition, along with time and date of occurrence.
5. All system output programs assigned via control-by-event equations to be activated by the particular point in alarm shall be executed, and the associated System Outputs (alarm Notification Appliances and/or Relays) shall be activated.
6. Shut down all HVAC equipment.
7. Automatically notify the monitoring agency. Include any and all equipment required to accomplish this requirement. Any and all equipment shall comply with requirements of the monitoring agency as to automatic reporting.
8. Open all automatic opening doors as applicable. Provide interface with access control system.
9. Provide interface as applicable with all smoke dampers and/or combination smoke/fire dampers to close when the space that the duct that contains the damper is in alarm. Coordinate operational functions with the authority having jurisdiction to comply with all codes and local/state/national requirements. Coordinate with the HVAC contractor and the smoke and/or combination smoke/fire damper supplier to determine the connections required and furnish and install any and all equipment required to control the damper.

D. Submittals
Provide submittals on battery calculations, voltage drop calculations, decibel level calculations to show horn sound pressure 15 dB above ambient, device layout and point to point wiring diagram on building floor plans. conductor type and sizes, raceway sizes, riser showing all devices and connections, interface of fire safety control functions, information on all equipment including model numbers to Engineer and AHJ for approval.

E. Guarantee
All work performed and all material and equipment furnished under this contract shall be free from defects and shall remain so for a period of at least one (1) year from the date of acceptance. The full cost of maintenance, labor and materials required to correct any defect during this one-year period shall be included in the submittal bid.

F. Maintenance
1. Maintenance and testing shall be on a semi-annual basis or as required by the local AHJ. A preventive maintenance schedule shall be provided by the Contractor that shall describe the protocol for preventive maintenance. The schedule shall include:
a. Systematic examination, adjustment and cleaning of all detectors, manual fire alarm stations, control panels, power supplies, relays, water flow switches and all accessories of the fire alarm system.
b. Each circuit in the fire alarm system shall be tested semi-annually.
c. Each smoke detector shall be tested in accordance with the requirements of NFPA 72 Chapter 7.

G. References and Standards
The specifications and standards listed below form a part of this specification. The system shall fully comply with these standards:
1. National Fire Protection Association (NFPA) – USA:
No. 70 National Electrical Code (NEC)
No. 72 Central Station Signaling Systems
No. 72 Protective Signaling Systems
No. 72 Automatic Fire Detectors
No. 72 Notification Appliances for Protective Signaling Systems.
No. 72 Testing Procedures for Signaling Systems.
No. 101 Life Safety Code
2. Underwriters Laboratories Inc. (UL) – USA:
No. 268 Smoke Detectors for Fire Protective Signaling Systems
No. 864 Control Units for Fire Protective Signaling Systems
No. 268A Smoke Detectors for Duct Applications.
No. 521 Heat Detectors for Fire Protective Signaling Systems
No. 464 Audible Signaling Appliances.
No. 38 Manually Actuated Signaling Boxes.
No. 346 Waterflow Indicators for Fire Protective Signaling Systems.
No. 1971Visual Notification Appliances for the hearing impaired.
3. Local and State Building Codes
4. All requirements of the Authority Having Jurisdiction (AHJ).

H. Equipment and Material
1. System shall be by Simplex. Control panel shall be Simplex 4007ES series. Other manufacturers by prior approval only. Installing contractor shall be U.L. listed.
2. Heat detectors in conditioned spaces shall be fixed temperature type with replaceable heat collector rated at 135 deg F U.N.O.
3. Heat detectors in non-conditioned spaces shall be rate of rise and fixed temperature type with replaceable heat collector rated at 194 deg F U.N.O.
4. Horns shall be field adjustable to allow for adequate dB levels. Minimum 88dB at 10ft.
5. Smoke Detectors and duct detectors shall be photoelectric type.
6. Provide duct smoke detectors as required by Mechanical plans and specifications, coordinate.
7. Signal devices: Candelas as indicated on drawings. All alarm signal devices shall have clear strobe cover and the word "FIRE" lettered on visible portion of device. Color as directed by Architect.
8. Annunciator(s): Provide an 80 character alphanumeric remote annunciator for display of all system events. This display shall duplicate the information displayed on fire alarm control panel and provide key switch protected functions of system reset, alarm acknowledge, trouble acknowledge, signal silence and drill test.
9. All conductors, enclosures and devices shall be listed for the purpose in which they are being used.
10. Batteries shall be gel-cell type (two required). Batteries shall have capacity as required by Code.
11. Provide document box per NFPA 72 with memory stick containing copy of programming and all record drawings and approved submittals.

I. Execution
1. Finished system shall comply with all applicable NFPA, IBC, IFC and local codes as well as requirements of local AHJ.
2. Provide the service of a factory-trained engineer or technician authorized manufacturer to technically supervise and participate during all adjustments and tests for the system. The manufacturer-trained technician shall demonstrate that the system functions properly in every respect to the Engineer, Owner or Owner's representative prior to final acceptance
3. Provide minimum of four hours instruction to the Owner on proper operation of the system, this shall be scheduled at the Owner's convenience.
4. Provide Record of Completion to Engineer and Owner described by NFPA 72.

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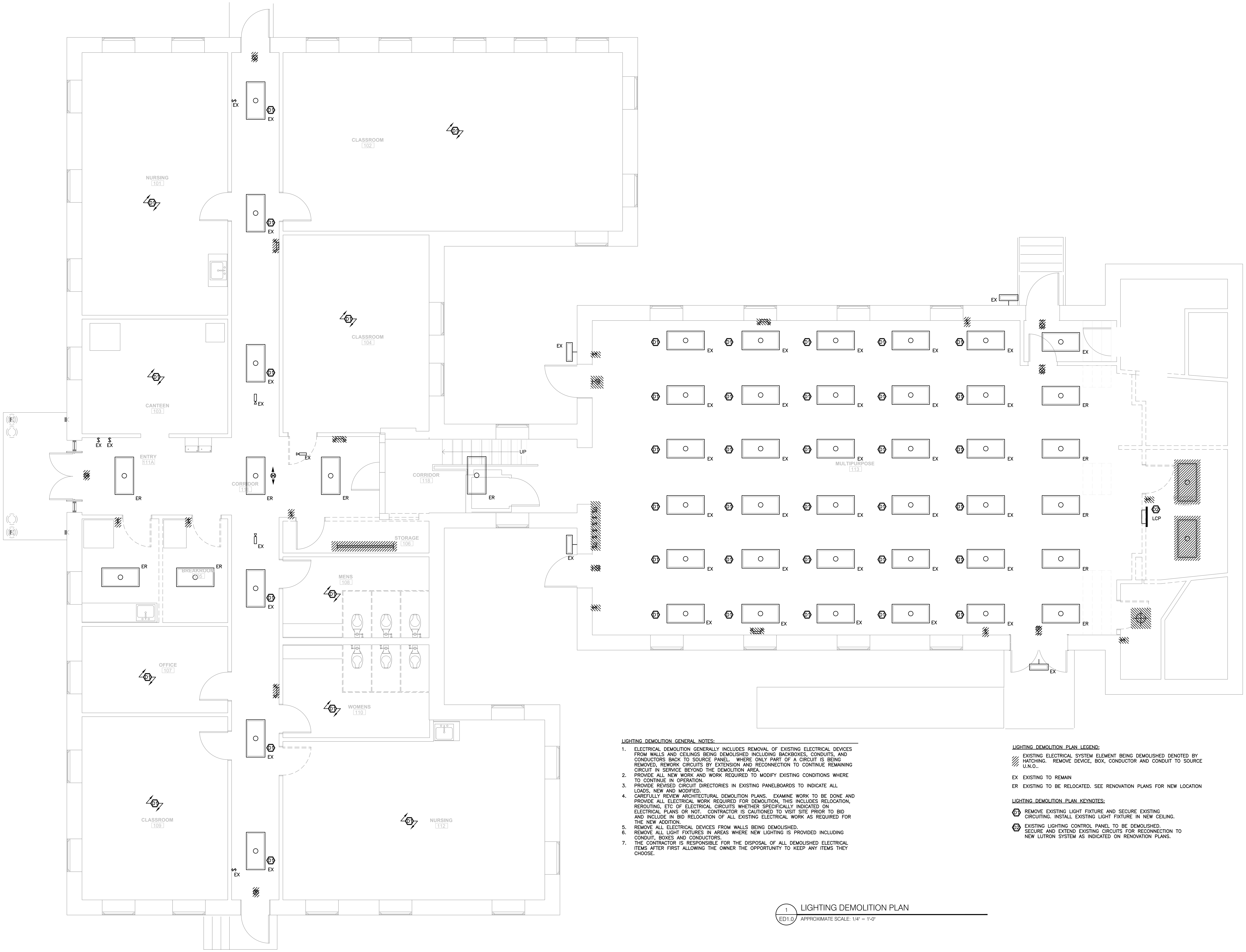
ELECTRICAL SPECIFICATIONS

E0.2



LIGHTING DEMOLITION GENERAL NOTES:

1. ELECTRICAL DEMOLITION GENERALLY INCLUDES REMOVAL OF EXISTING ELECTRICAL DEVICES FROM WALLS AND CEILINGS BEING DEMOLISHED INCLUDING BACKBOXES, CONDUITS, AND CONDUCTORS BACK TO SOURCE PANEL. WHERE ONLY PART OF A CIRCUIT IS BEING REMOVED, REWORK CIRCUITS BY EXTENSION AND RECONNECTION TO CONTINUE REMAINING CIRCUIT IN SERVICE BEYOND THE DEMOLITION AREA.
2. PROVIDE ALL NEW WORK AND WORK REQUIRED TO MODIFY EXISTING CONDITIONS WHERE TO CONTINUE IN OPERATION.
3. PROVIDE REVISED CIRCUIT DIRECTORIES IN EXISTING PANELBOARDS TO INDICATE ALL LOADS, NEW AND MODIFIED.
4. CAREFULLY REVIEW ARCHITECTURAL DEMOLITION PLANS. EXAMINE WORK TO BE DONE AND PROVIDE ALL ELECTRICAL WORK REQUIRED FOR DEMOLITION, THIS INCLUDES RELOCATION, REROUTING, ETC OF ELECTRICAL CIRCUITS WHETHER SPECIFICALLY INDICATED ON ELECTRICAL PLANS OR NOT. CONTRACTOR IS CAUTIONED TO VISIT SITE PRIOR TO BID AND INCLUDE IN BID RELOCATION OF ALL EXISTING ELECTRICAL WORK AS REQUIRED FOR THE NEW ADDITION.
5. REMOVE ALL ELECTRICAL DEVICES FROM WALLS BEING DEMOLISHED.
6. REMOVE ALL LIGHT FIXTURES IN AREAS WHERE NEW LIGHTING IS PROVIDED INCLUDING CONDUIT, BOXES AND CONDUCTORS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL DEMOLISHED ELECTRICAL ITEMS AFTER FIRST ALLOWING THE OWNER THE OPPORTUNITY TO KEEP ANY ITEMS THEY CHOOSE.

1 / ED1.0 LIGHTING DEMOLITION PLAN

APPROXIMATE SCALE: 1/4" = 1'-0"

LIGHTING DEMOLITION PLAN LEGEND:

EXISTING ELECTRICAL SYSTEM ELEMENT BEING DEMOLISHED DENOTED BY HATCHING. REMOVE DEVICE, BOX, CONDUCTOR AND CONDUIT TO SOURCE U.N.O..

EX EXISTING TO REMAIN

ER EXISTING TO BE RELOCATED. SEE RENOVATION PLANS FOR NEW LOCATION

LIGHTING DEMOLITION PLAN KEYNOTES:

D1 REMOVE EXISTING LIGHT FIXTURE AND SECURE EXISTING CIRCUITING. INSTALL EXISTING LIGHT FIXTURE IN NEW CEILING.

D2 EXISTING LIGHTING CONTROL PANEL TO BE DEMOLISHED. SECURE AND EXTEND EXISTING CIRCUITS FOR RECONNECTION TO NEW LUTRON SYSTEM AS INDICATED ON RENOVATION PLANS.

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LIGHTING DEMOLITION PLAN

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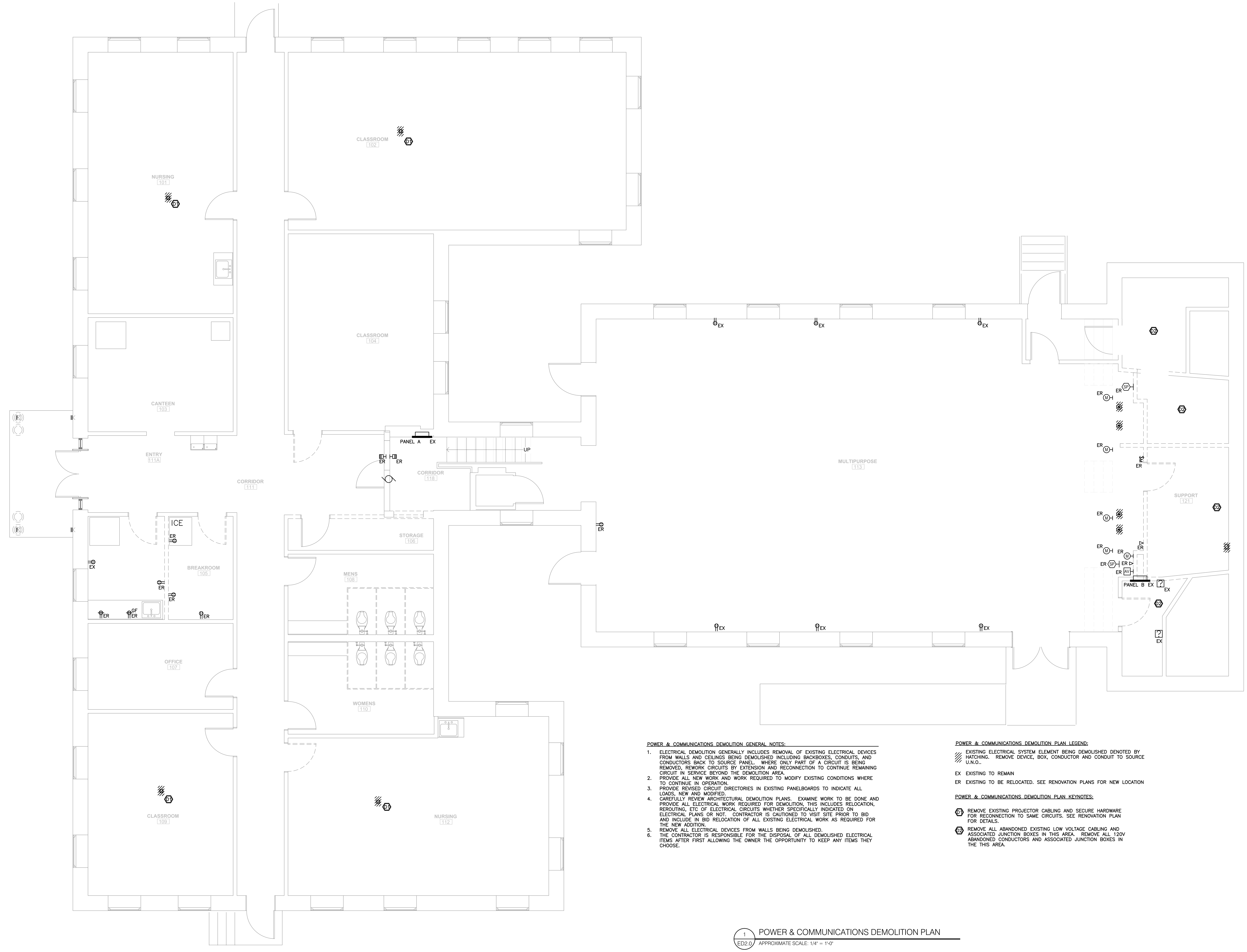

1
ED2.0
POWER & COMMUNICATIONS DEMOLITION PLAN
APPROXIMATE SCALE: 1/4" = 1'-0"

POWER & COMMUNICATIONS DEMOLITION GENERAL NOTES:

1. ELECTRICAL DEMOLITION GENERALLY INCLUDES REMOVAL OF EXISTING ELECTRICAL DEVICES FROM WALLS AND CEILINGS BEING DEMOLISHED INCLUDING BACKBOXES, CONDUITS, AND CONDUCTORS BACK TO SOURCE PANEL. WHERE ONLY PART OF A CIRCUIT IS BEING REMOVED, REWORK CIRCUITS BY EXTENSION AND RECONNECTION TO CONTINUE REMAINING CIRCUIT IN SERVICE BEYOND THE DEMOLITION AREA.
2. PROVIDE ALL NEW WORK AND WORK REQUIRED TO MODIFY EXISTING CONDITIONS WHERE TO CONTINUE IN OPERATION.
3. PROVIDE REVISED CIRCUIT DIRECTORIES IN EXISTING PANELBOARDS TO INDICATE ALL LOADS, NEW AND MODIFIED.
4. CAREFULLY REVIEW ARCHITECTURAL DEMOLITION PLANS. EXAMINE WORK TO BE DONE AND PROVIDE ALL ELECTRICAL WORK REQUIRED FOR DEMOLITION, THIS INCLUDES RELOCATION, REROUTING, ETC OF ELECTRICAL CIRCUITS WHETHER SPECIFICALLY INDICATED ON ELECTRICAL PLANS OR NOT. CONTRACTOR IS CAUTIONED TO VISIT SITE PRIOR TO BID AND INCLUDE IN BID RELOCATION OF ALL EXISTING ELECTRICAL WORK AS REQUIRED FOR THE NEW ADDITION.
5. REMOVE ALL ELECTRICAL DEVICES FROM WALLS BEING DEMOLISHED.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL DEMOLISHED ELECTRICAL ITEMS AFTER FIRST ALLOWING THE OWNER THE OPPORTUNITY TO KEEP ANY ITEMS THEY CHOOSE.

POWER & COMMUNICATIONS DEMOLITION PLAN LEGEND:

EXISTING ELECTRICAL SYSTEM ELEMENT BEING DEMOLISHED DENOTED BY HATCHING. REMOVE DEVICE, BOX, CONDUCTOR AND CONDUIT TO SOURCE U.N.O..

EX EXISTING TO REMAIN

ER EXISTING TO BE RELOCATED. SEE RENOVATION PLANS FOR NEW LOCATION

POWER & COMMUNICATIONS DEMOLITION PLAN KEYNOTES:

D1 REMOVE EXISTING PROJECTOR CABLING AND SECURE HARDWARE FOR RECONNECTION TO SAME CIRCUITS. SEE RENOVATION PLAN FOR DETAILS.

D2 REMOVE ALL ABANDONED EXISTING LOW VOLTAGE CABLING AND ASSOCIATED JUNCTION BOXES IN THIS AREA. REMOVE ALL 120V ABANDONED CONDUCTORS AND ASSOCIATED JUNCTION BOXES IN THE THIS AREA.

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POWER & COMMUNICATIONS DEMOLITION PLAN

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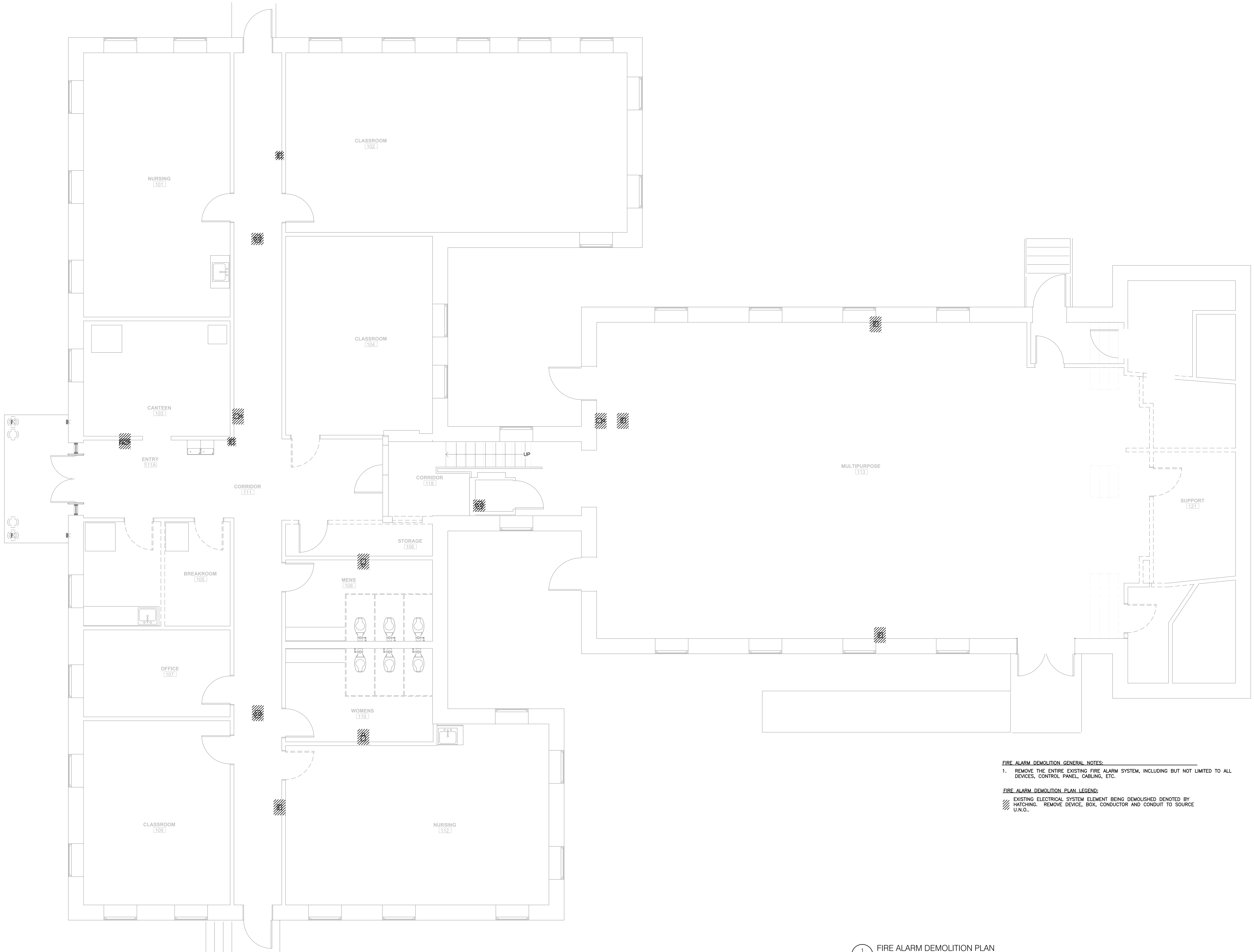

1 FIRE ALARM DEMOLITION PLAN
ED3.0 APPROXIMATE SCALE: 1/4" = 1'-0"

FIRE ALARM DEMOLITION GENERAL NOTES:

1. REMOVE THE ENTIRE EXISTING FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO ALL DEVICES, CONTROL PANEL, CABLING, ETC.

FIRE ALARM DEMOLITION PLAN LEGEND:

EXISTING ELECTRICAL SYSTEM ELEMENT BEING DEMOLISHED DENOTED BY HATCHING. REMOVE DEVICE, BOX, CONDUCTOR AND CONDUIT TO SOURCE U.N.O..

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FIRE ALARM DEMOLITION PLAN

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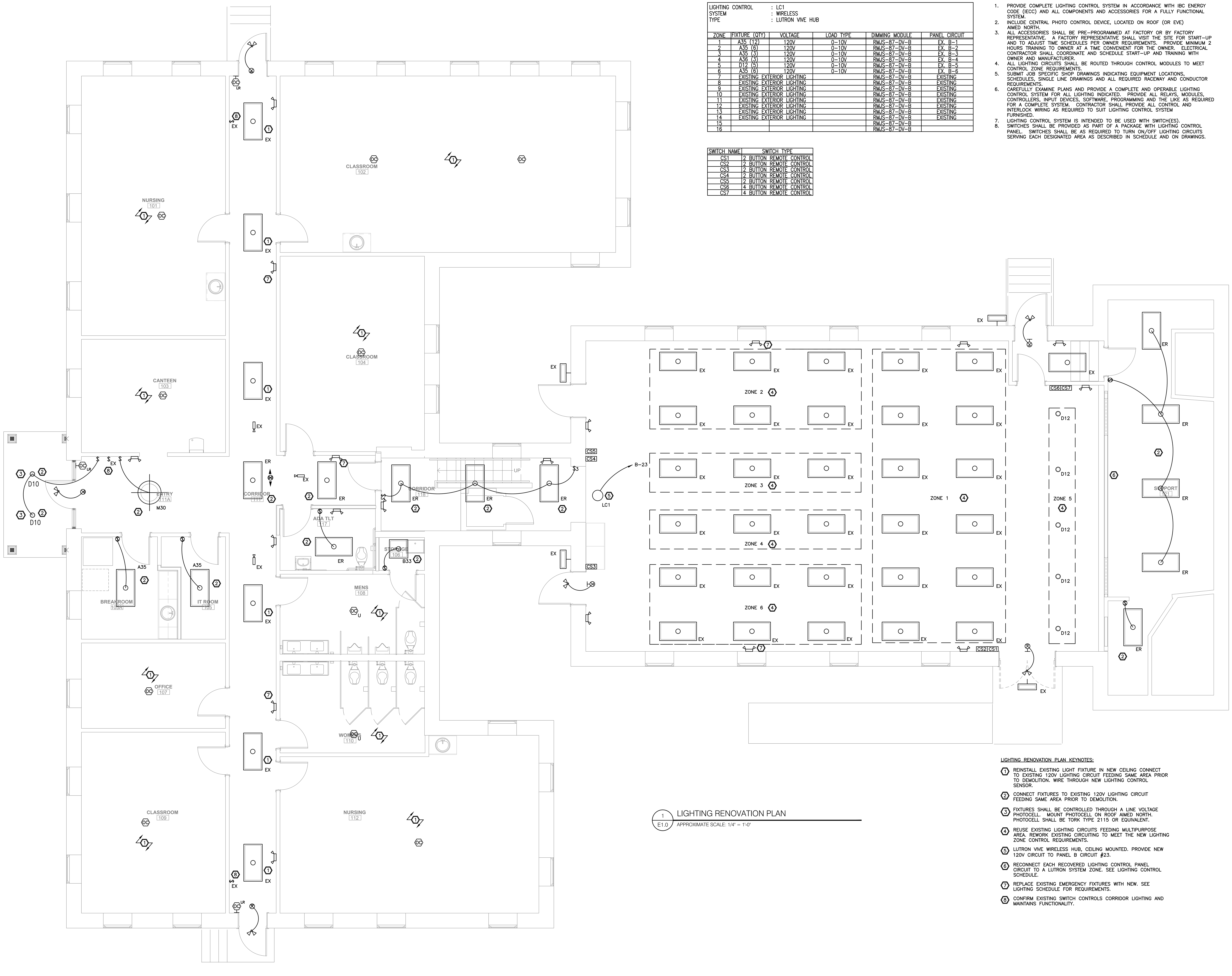
ED3.0

LIGHTING CONTROL	: LC1				
SYSTEM	: WIRELESS				
TYPE	: LUTRON VIVE HUB				
ZONE	FIXTURE (QTY)	VOLTAGE	LOAD TYPE	DIMMING MODULE	PANEL CIRCUIT
1	A35 (12)	120V	0–10V	RMJS–87–DV–B	EX. B–1
2	A35 (6)	120V	0–10V	RMJS–87–DV–B	EX. B–2
3	A35 (3)	120V	0–10V	RMJS–87–DV–B	EX. B–3
4	A36 (3)	120V	0–10V	RMJS–87–DV–B	EX. B–4
5	D12 (5)	120V	0–10V	RMJS–87–DV–B	EX. B–5
6	A35 (6)	120V	0–10V	RMJS–87–DV–B	EX. B–6
7	EXISTING EXTERIOR LIGHTING			RMJS–87–DV–B	EXISTING
8	EXISTING EXTERIOR LIGHTING			RMJS–87–DV–B	EXISTING
9	EXISTING EXTERIOR LIGHTING			RMJS–87–DV–B	EXISTING
10	EXISTING EXTERIOR LIGHTING			RMJS–87–DV–B	EXISTING
11	EXISTING EXTERIOR LIGHTING			RMJS–87–DV–B	EXISTING
12	EXISTING EXTERIOR LIGHTING			RMJS–87–DV–B	EXISTING
13	EXISTING EXTERIOR LIGHTING			RMJS–87–DV–B	EXISTING
14	EXISTING EXTERIOR LIGHTING			RMJS–87–DV–B	EXISTING
15				RMJS–87–DV–B	
16				RMJS–87–DV–B	

SWITCH NAME	SWITCH TYPE
CS1	2 BUTTON REMOTE CONTROL
CS2	2 BUTTON REMOTE CONTROL
CS3	2 BUTTON REMOTE CONTROL
CS4	2 BUTTON REMOTE CONTROL
CS5	2 BUTTON REMOTE CONTROL
CS6	4 BUTTON REMOTE CONTROL
CS7	4 BUTTON REMOTE CONTROL

1. PROVIDE COMPLETE LIGHTING CONTROL SYSTEM IN ACCORDANCE WITH IBC ENERGY CODE (IECC) AND ALL COMPONENTS AND ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM.
2. INCLUDE CENTRAL PHOTO CONTROL DEVICE, LOCATED ON ROOF (OR EVE) AIMED NORTH.
3. ALL ACCESSORIES SHALL BE PRE–PROGRAMMED AT FACTORY OR BY FACTORY REPRESENTATIVE. A FACTORY REPRESENTATIVE SHALL VISIT THE SITE FOR START–UP AND TO ADJUST TIME SCHEDULES PER OWNER REQUIREMENTS. PROVIDE MINIMUM 2 HOURS TRAINING TO OWNER AT A TIME CONVENIENT FOR THE OWNER. ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE START–UP AND TRAINING WITH OWNER AND MANUFACTURER.
4. ALL LIGHTING CIRCUITS SHALL BE ROUTED THROUGH CONTROL MODULES TO MEET CONTROL ZONE REQUIREMENTS.
5. SUBMIT JOB SPECIFIC SHOP DRAWINGS INDICATING EQUIPMENT LOCATIONS, SCHEDULES, SINGLE LINE DRAWINGS AND ALL REQUIRED RACEWAY AND CONDUCTOR REQUIREMENTS.
6. CAREFULLY EXAMINE PLANS AND PROVIDE A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM FOR ALL LIGHTING INDICATED. PROVIDE ALL RELAYS, MODULES, CONTROLLERS, INPUT DEVICES, SOFTWARE, PROGRAMMING AND THE LIKE AS REQUIRED FOR A COMPLETE SYSTEM. CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK WIRING AS REQUIRED TO SUIT LIGHTING CONTROL SYSTEM FURNISHED.
7. LIGHTING CONTROL SYSTEM IS INTENDED TO BE USED WITH SWITCH(ES).
8. SWITCHES SHALL BE PROVIDED AS PART OF A PACKAGE WITH LIGHTING CONTROL PANEL. SWITCHES SHALL BE AS REQUIRED TO TURN ON/OFF LIGHTING CIRCUITS SERVING EACH DESIGNATED AREA AS DESCRIBED IN SCHEDULE AND ON DRAWINGS.



1 LIGHTING RENOVATION PLAN
E1.0 APPROXIMATE SCALE: 1/4" = 1'-0"

LIGHTING RENOVATION PLAN KEYNOTES:

1. REINSTALL EXISTING LIGHT FIXTURE IN NEW CEILING CONNECT TO EXISTING 120V LIGHTING CIRCUIT FEEDING SAME AREA PRIOR TO DEMOLITION. WIRE THROUGH NEW LIGHTING CONTROL SENSOR.
2. CONNECT FIXTURES TO EXISTING 120V LIGHTING CIRCUIT FEEDING SAME AREA PRIOR TO DEMOLITION.
3. FIXTURES SHALL BE CONTROLLED THROUGH A LINE VOLTAGE PHOTOCELL. MOUNT PHOTOCELL ON ROOF AIMED NORTH. PHOTOCELL SHALL BE TORK TYPE 2115 OR EQUIVALENT.
4. REUSE EXISTING LIGHTING CIRCUITS FEEDING MULTIPURPOSE AREA. REWORK EXISTING CIRCUITING TO MEET THE NEW LIGHTING ZONE CONTROL REQUIREMENTS.
5. LUTRON VIVE WIRELESS HUB, CEILING MOUNTED. PROVIDE NEW 120V CIRCUIT TO PANEL B CIRCUIT #23.
6. RECONNECT EACH RECOVERED LIGHTING CONTROL PANEL CIRCUIT TO A LUTRON SYSTEM ZONE. SEE LIGHTING CONTROL SCHEDULE.
7. REPLACE EXISTING EMERGENCY FIXTURES WITH NEW. SEE LIGHTING SCHEDULE FOR REQUIREMENTS.
8. CONFIRM EXISTING SWITCH CONTROLS CORRIDOR LIGHTING AND MAINTAINS FUNCTIONALITY.

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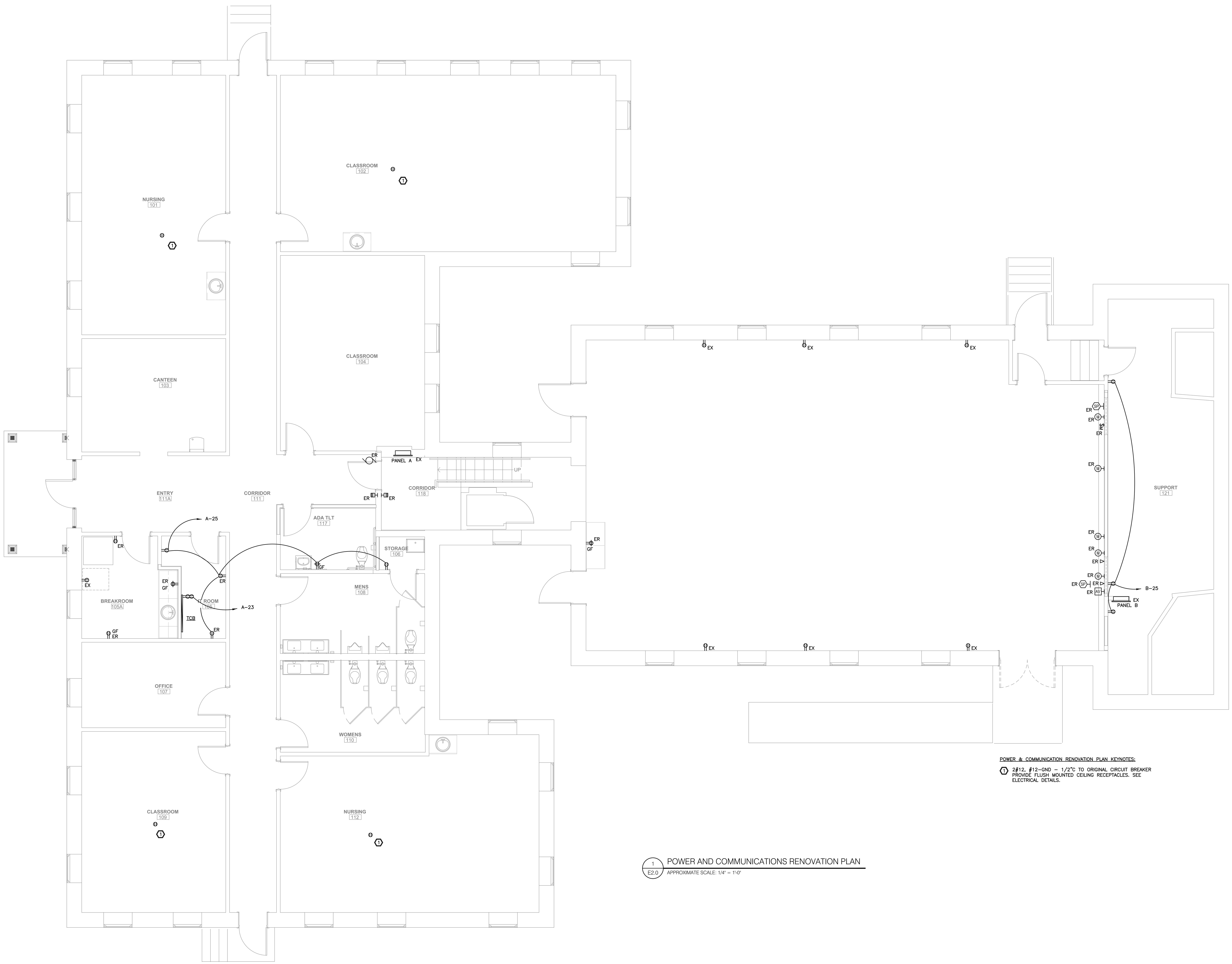
LIGHTING RENOVATION PLAN

E1.0



1
E2.0
POWER AND COMMUNICATIONS RENOVATION PLAN
APPROXIMATE SCALE: 1/4" = 1'-0"

POWER & COMMUNICATION RENOVATION PLAN KEYNOTES:

1. 2#12, #12-GND – 1/2"C TO ORIGINAL CIRCUIT BREAKER PROVIDE FLUSH MOUNTED CEILING RECEPTACLES. SEE ELECTRICAL DETAILS.

SOUTH CAROLINA
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ETI ENGINEERING, LLC
No. C02936

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No. 23558
BRYSON D. TUCKER
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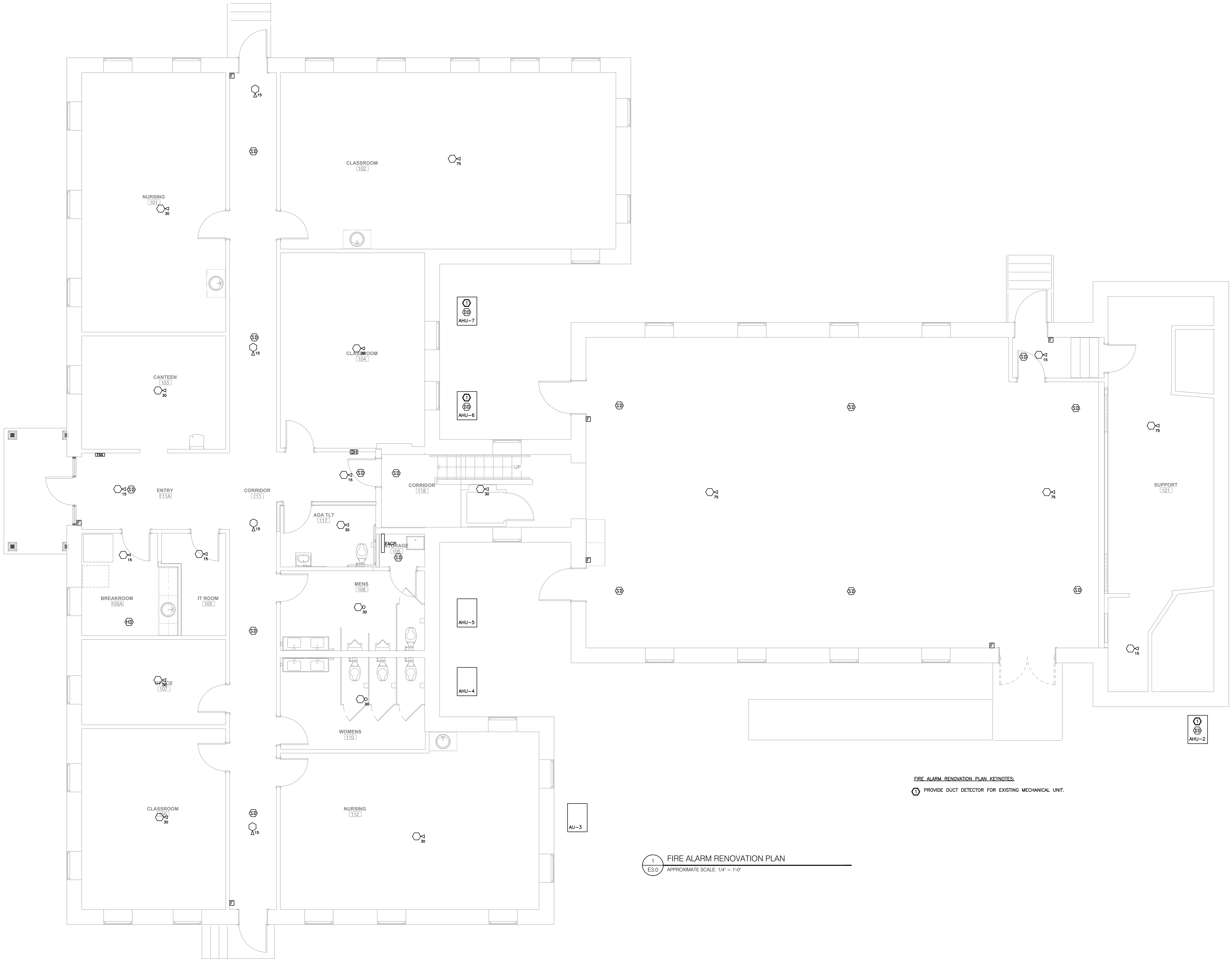
POWER & COMMUNICATIONS RENOVATION PLAN

E2.0



FIRE ALARM RENOVATION PLAN KEYNOTES:

1. PROVIDE DUCT DETECTOR FOR EXISTING MECHANICAL UNIT.

1 / E3.0 FIRE ALARM RENOVATION PLAN
APPROXIMATE SCALE: 1/4" = 1'-0"

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FIRE ALARM RENOVATION PLAN

E3.0