

# Renovations for: Galego Court Admin. Bldg. & Building 200

483 Weeden Street  
Pawtucket, RI 02860

OWNER  
Pawtucket Housing Authority  
214 Roosevelt Avenue  
Pawtucket, RI 02860  
P: (401)721-6000

DATE: DECEMBER 15, 2023

ISSUED FOR: CONSTRUCTION DOCUMENTS

## DRAWINGS

### ARCHITECTURAL

D1.0: Administration Building Demolition Plans  
A1.0: Administration Building Proposed Plans  
A1.1: Building 200 Demolition & Proposed Plans  
A2.0: Interior Elevations  
A3.0: Administration Building Demolition RCP  
A3.1: Administration Building Proposed RCP  
A3.2: Building 200 Demolition & Proposed RCP's  
A4.0: Schedules & Details

### PLUMBING

P0.0: Plumbing - Legends, Notes & Schedule  
PD1.0: Plumbing - Administration Building Demolition Plan  
P1.0: Plumbing - Administration Building Floor Plan  
P1.1: Plumbing - Building 200 Floor Plans

### MECHANICAL

M0.0: Mechanical - Legends & Notes  
M1.0: Mechanical - Administration Building Demolition & Floor Plan  
M1.1: Mechanical - Building 200 Floor Plans

### ELECTRICAL

E0.0: Electrical - Legends & Notes  
E0.1: Electrical - Legends & Notes  
E0.2: Electrical - Legends & Notes  
ED1.0: Electrical - Administration Building Demolition Plan  
E1.0: Electrical - Administration Building Power Plan  
E1.1: Electrical - Building 200 Power Plan  
E2.0: Electrical - Schedules & Details  
E2.1: Electrical - Power Riser Diagram, Notes, and Schedules



LOCUS MAP

NTS

ARCHITECT  
Ed Wojcik, Architect, Ltd.  
One Richmond Square, Suite 100K  
Providence, RI 02906  
P: 401-861-7139  
F: 401-861-7165

M/E/P Engineer  
Engineering Design Services, Inc.  
141 Industrial Drive  
Slatersville, RI 02876  
P: 401-765-7659

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

SHEET CONTENTS:  
Locus Map  
Drawing List

PROJECT #: 2123

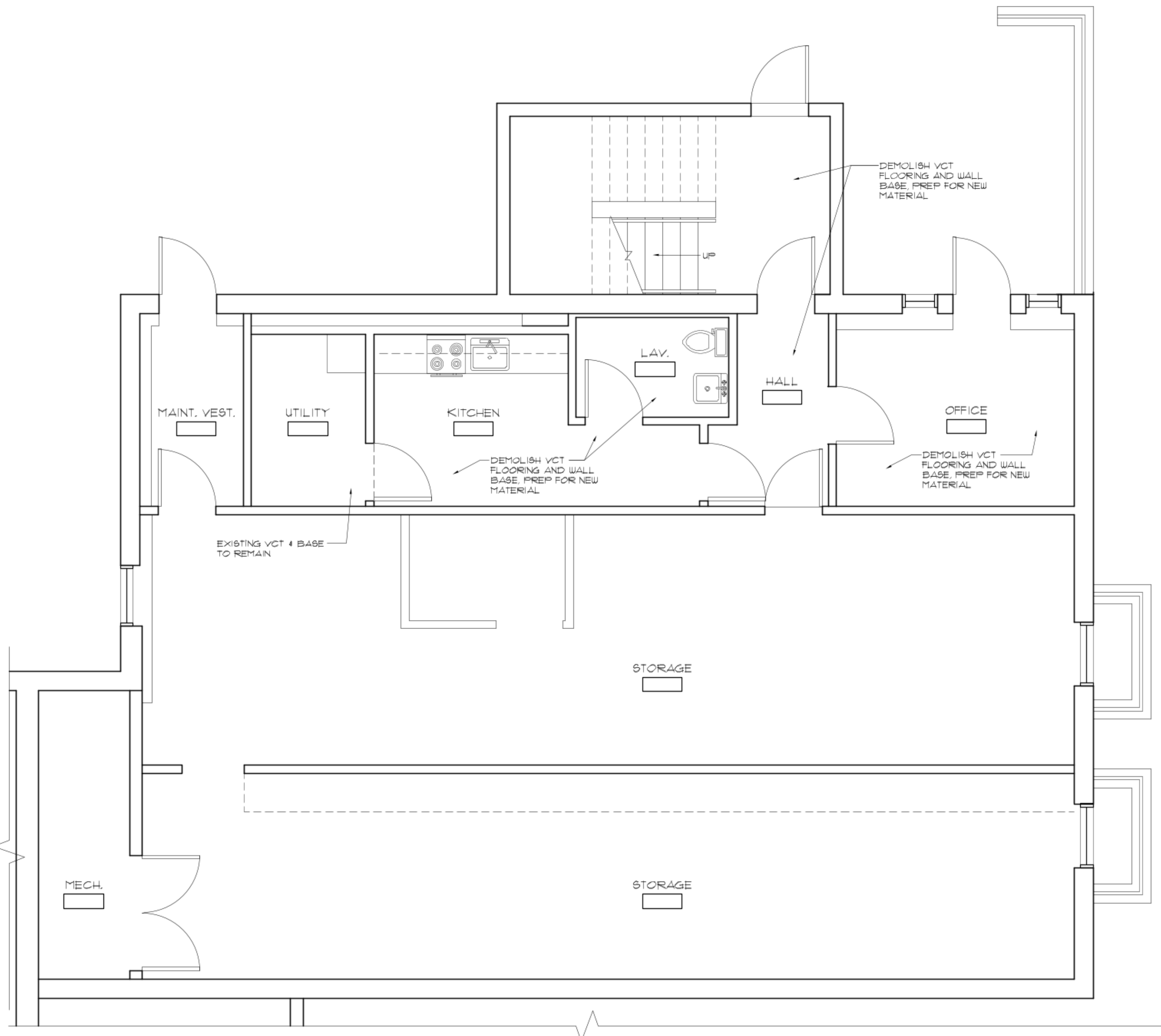
DATE: 12/15/2023  
REVISED DATE:

**CVR**



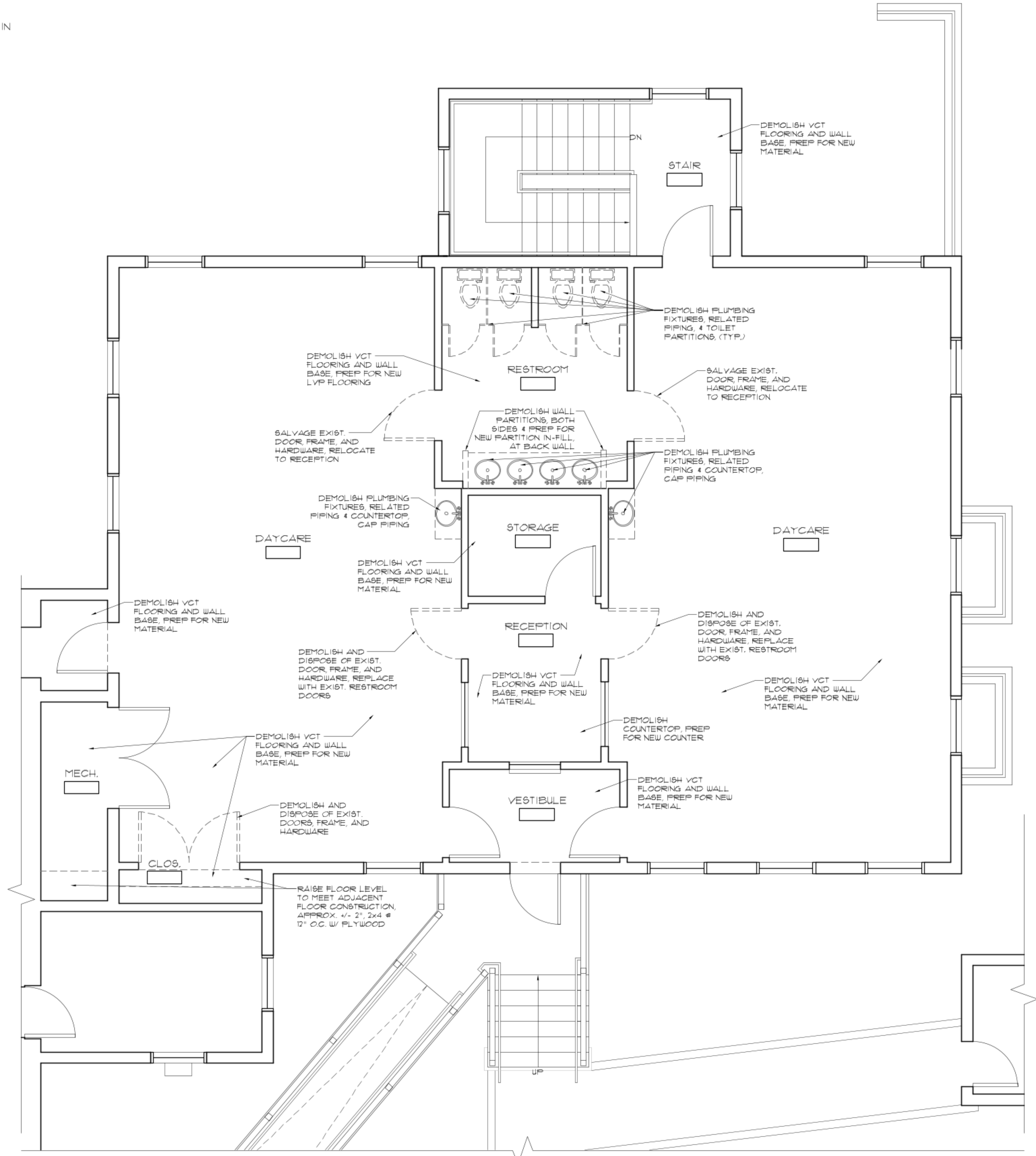
**GENERAL DEMOLITION NOTES:**

- A. ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. SECURE REQUIRED DEMOLITION PERMITS. ARRANGE WITH OWNER AND/OR APPROPRIATE UTILITIES FOR SERVICE SHUTOFFS BEFORE BEGINNING DEMOLITION OPERATIONS. IDENTIFY ALL EXISTING ITEMS OR WORK, HARDWARE AND DEVICES SCHEDULED TO REMAIN, OR TO BE SALVAGED FOR REUSE.
- B. BUILDING MAY BE OCCUPIED DURING DEMOLITION OPERATIONS. COORDINATE ALL DEMOLITION OPERATIONS WITH OWNER FOR SHUTDOWN PERIODS AND SEQUENCE OF WORK. PROVIDE TEMPORARY DUST PARTITIONS, BARRICADES AND PROTECTIVE ENCLOSURES REQUIRED TO PROPERLY SECURE AND ISOLATE AREAS OF WORK AND TO ASSURE CONTINUING FACILITY OPERATION.
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**ADMINISTRATION BUILDING - DEMOLITION**  
PART, BASEMENT

1 1/4" = 1'-0"



**ADMINISTRATION BUILDING - DEMOLITION**  
PART, FIRST FLOOR

2 1/4" = 1'-0"

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**D1.0**



**GENERAL NOTES:**

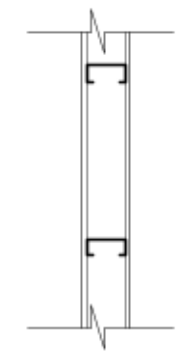
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5. FLASH PATCH FLOOR AS NEEDED TO INSTALL FLOOR FINISHES.
6. DOORS SHALL BE MOUNTED 5" AWAY FROM ADJACENT WALL, UNLESS NOTED OTHERWISE OR SHOWN IN DIFFERENT LOCATION.

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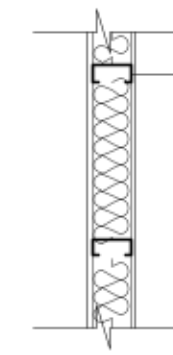
**WALL TYPES**

NTS



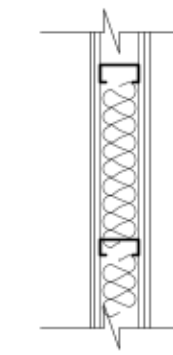
NEW 3/8" METAL STUDS @ 16" O.C. W/  
5/8" GWB BOTH SIDES, PAINTED  
MOISTURE RESISTANT GWB AT WET WALLS

A



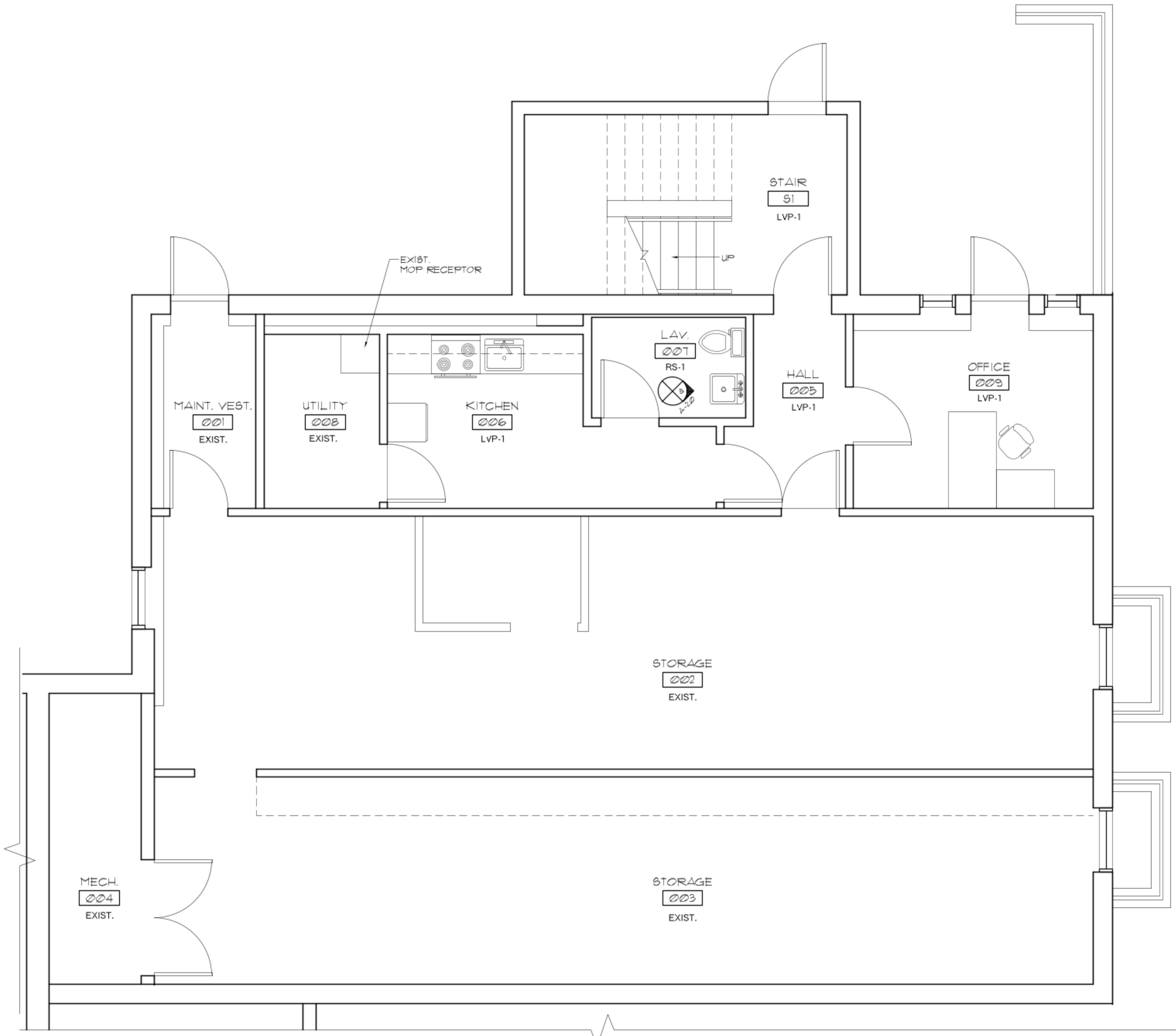
NEW 3/8" METAL STUDS @ 16" O.C. W/  
3 1/2" FIBERGLASS BATT INSULATION W/  
5/8" GWB BOTH SIDES, PAINTED  
MOISTURE RESISTANT GWB AT WET WALLS

B



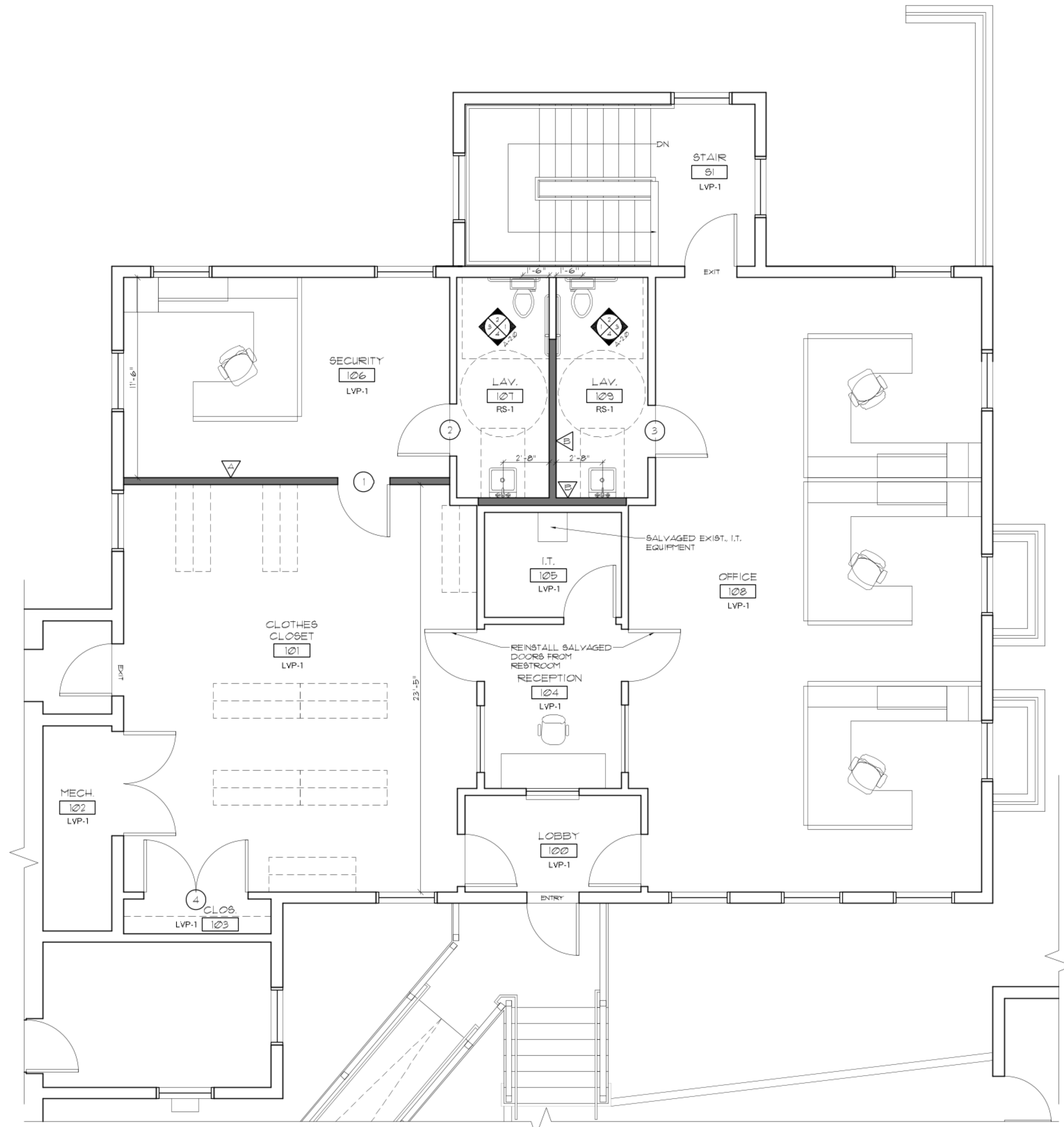
NEW 2 1/2" METAL STUDS W/ FIBERGLASS  
BATT INSULATION W/ 2 LAYERS OF 1/2"  
"TYPE X" GWB ON BOTH SIDES, PAINTED  
ON EXPOSED FACE  
UL #419 - 1 HOUR

C



**ADMINISTRATION BUILDING - PROPOSED**  
PART, BASEMENT

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**ADMINISTRATION BUILDING - PROPOSED**  
PART, FIRST FLOOR

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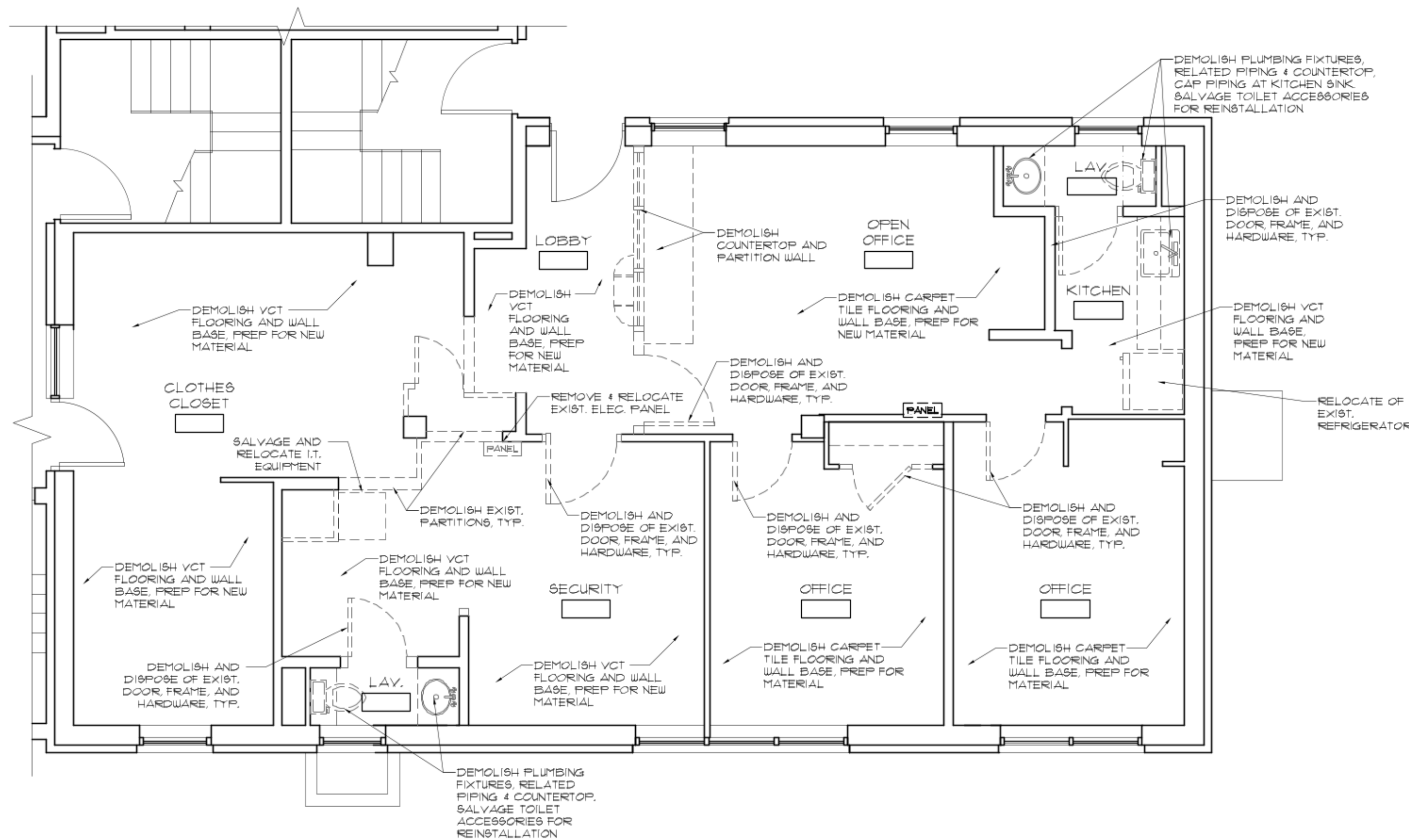
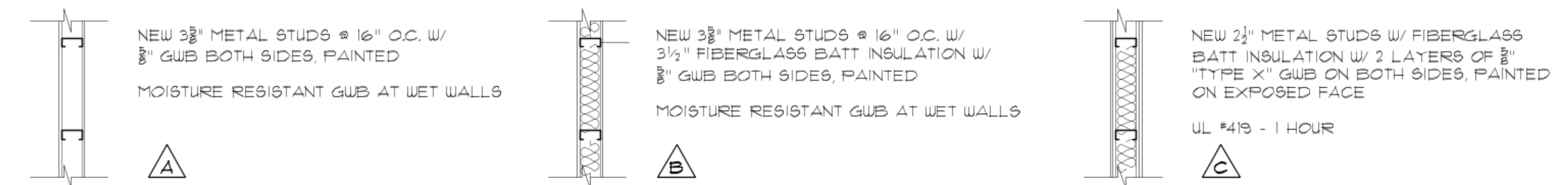
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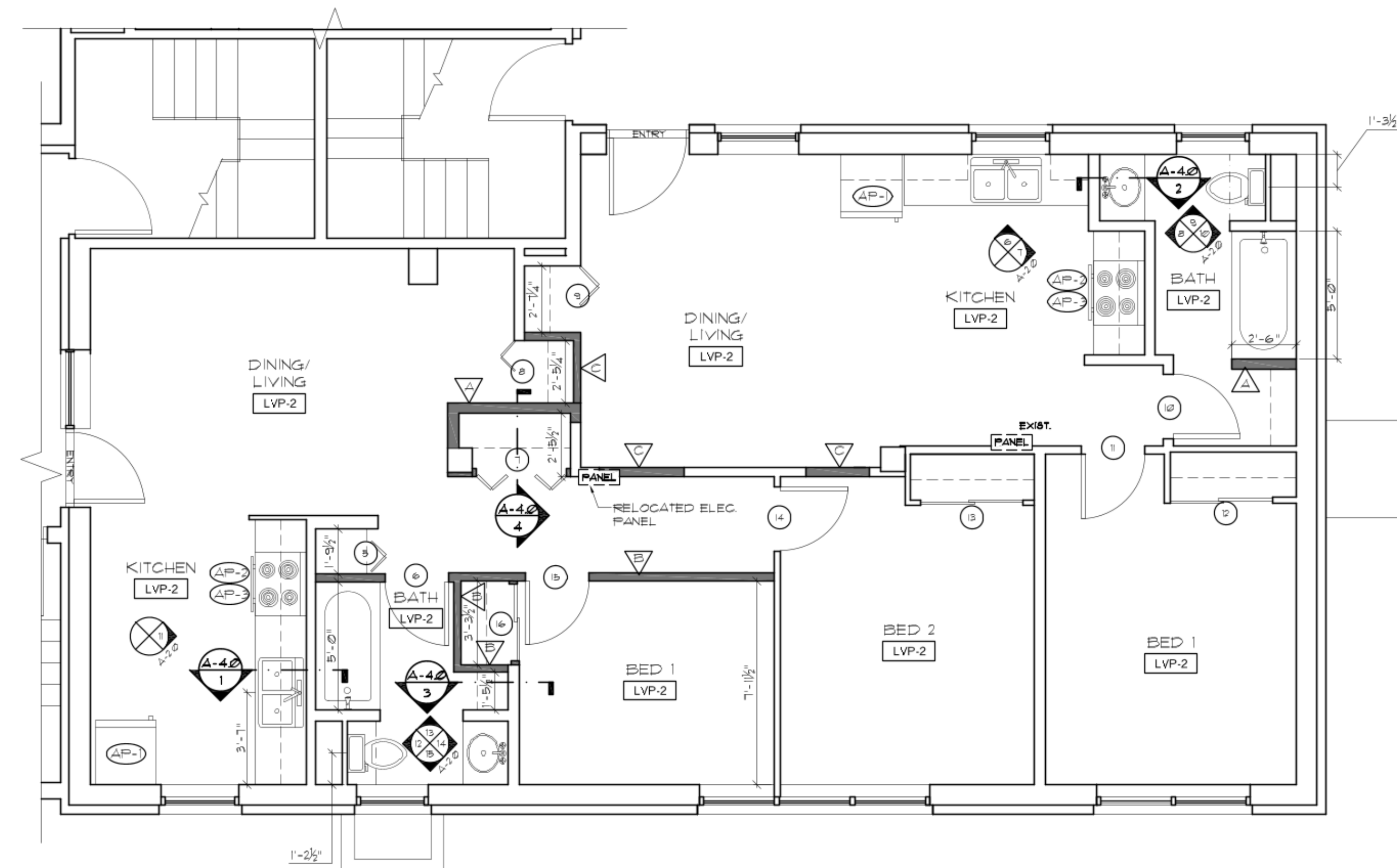
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**WALL TYPES**



**BUILDING 200 - DEMOLITION**  
PART, FIRST FLOOR

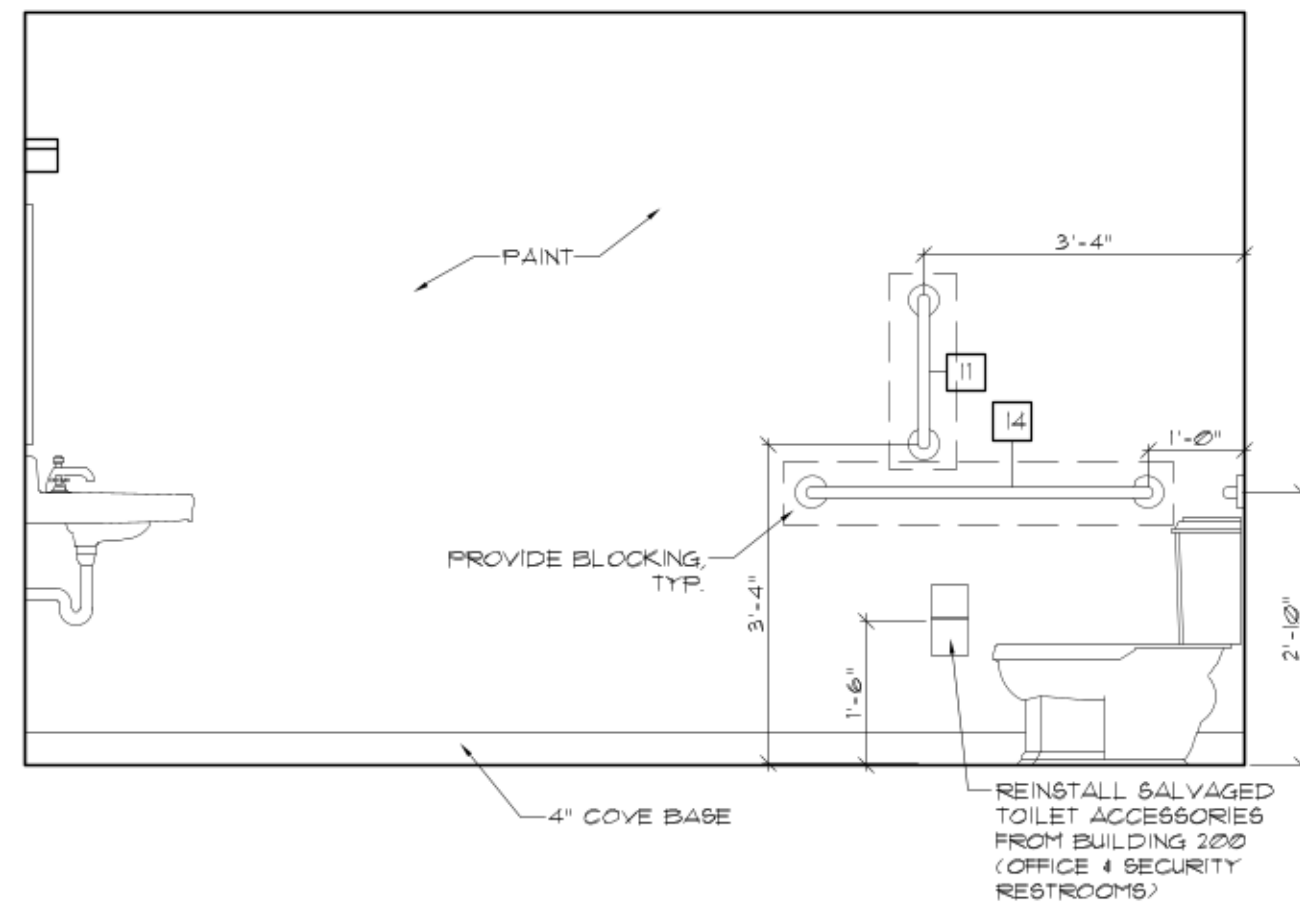
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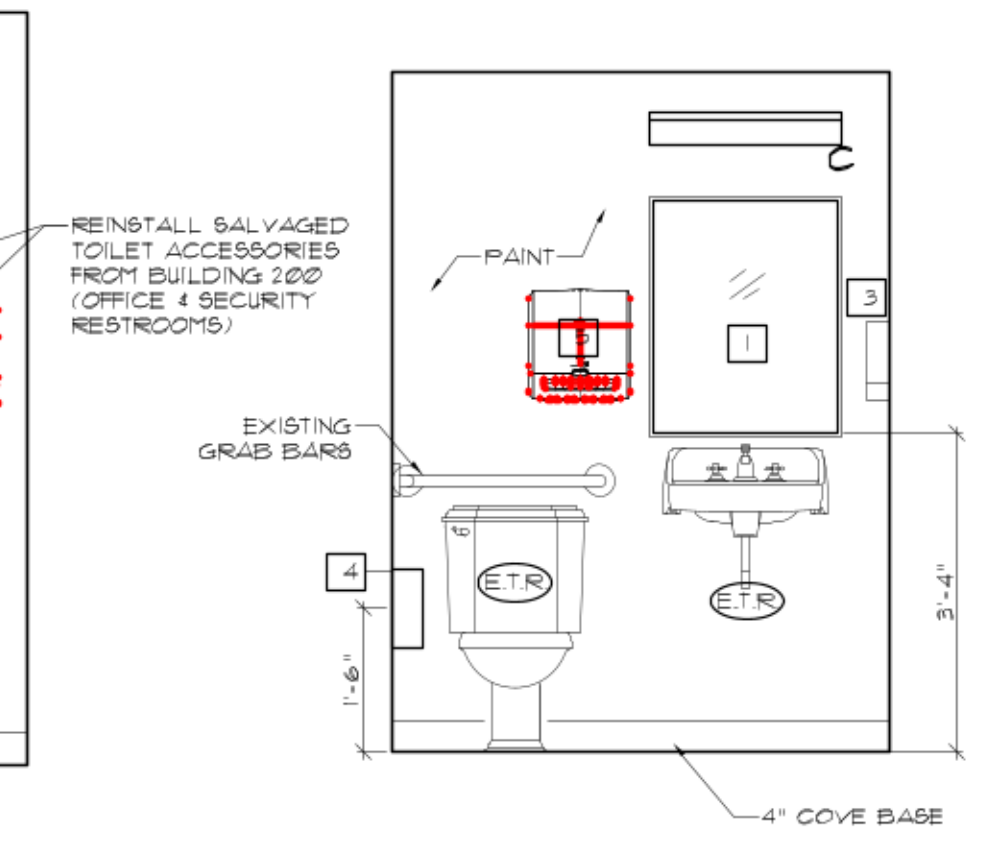
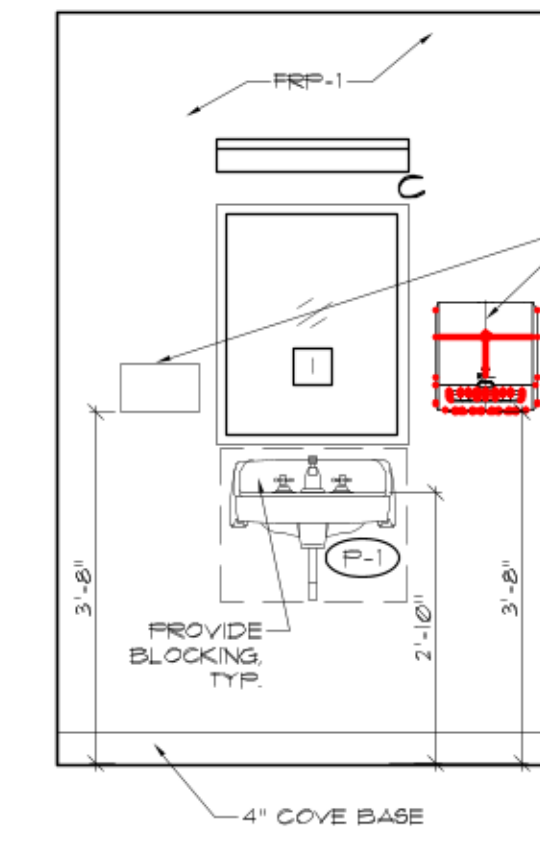
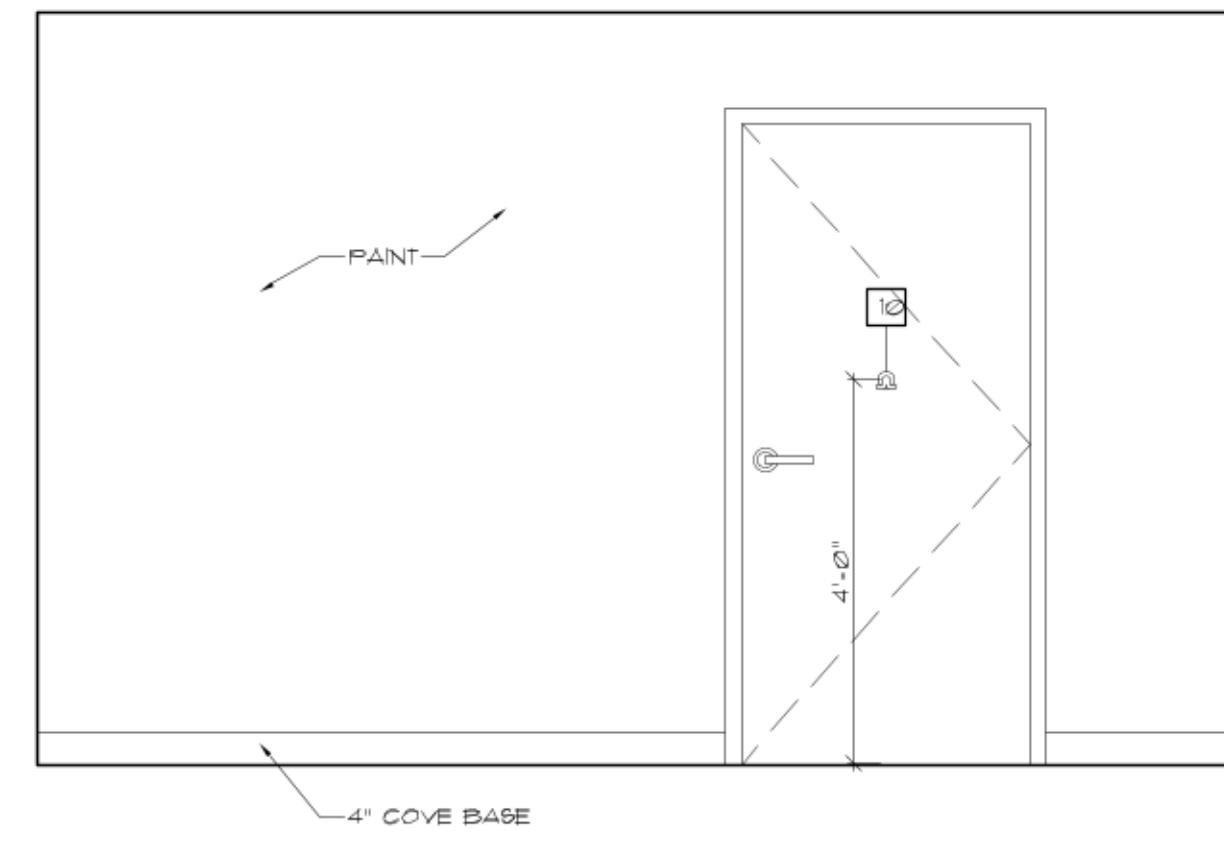
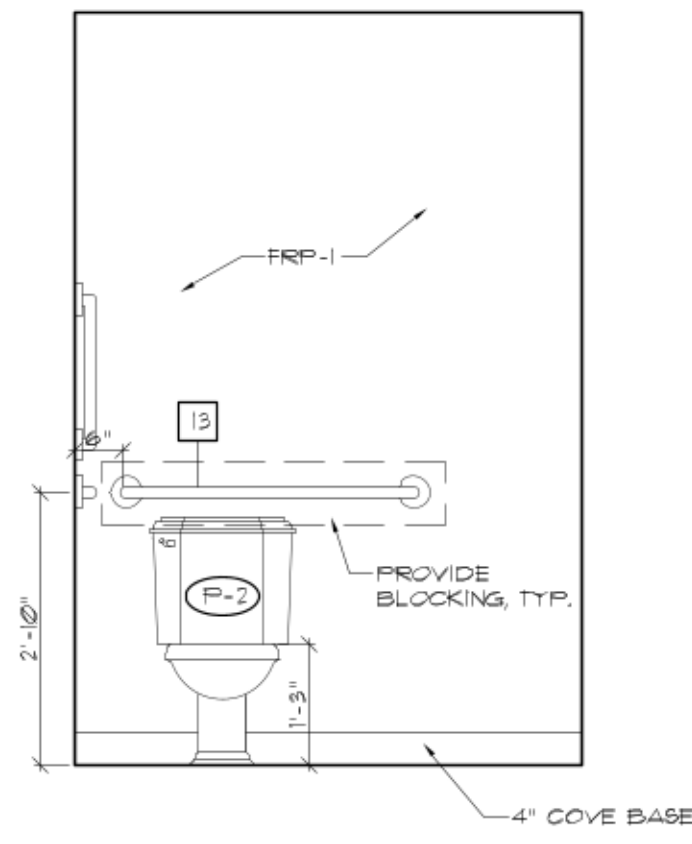
**BUILDING 200 - PROPOSED**  
PART, FIRST FLOOR

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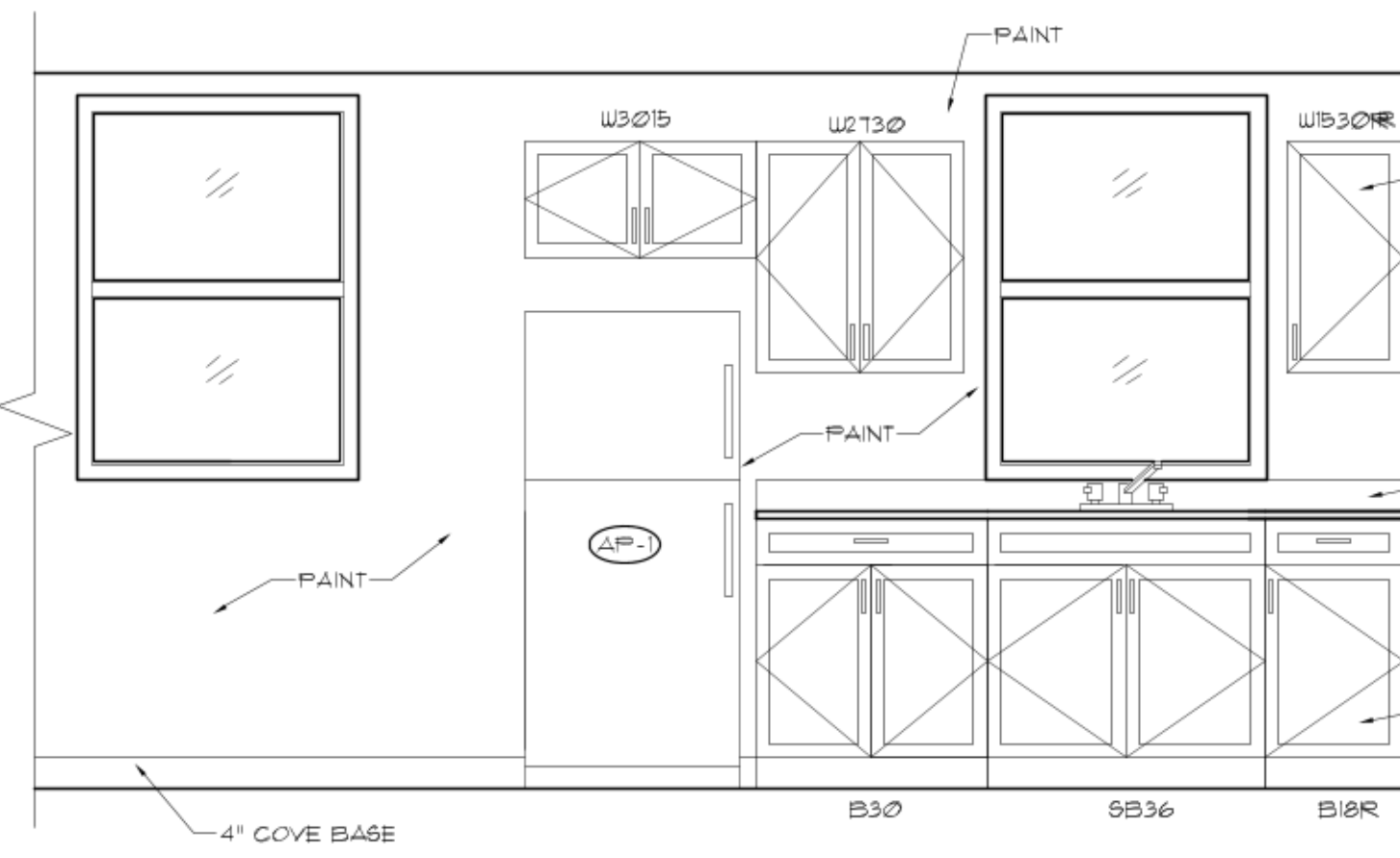




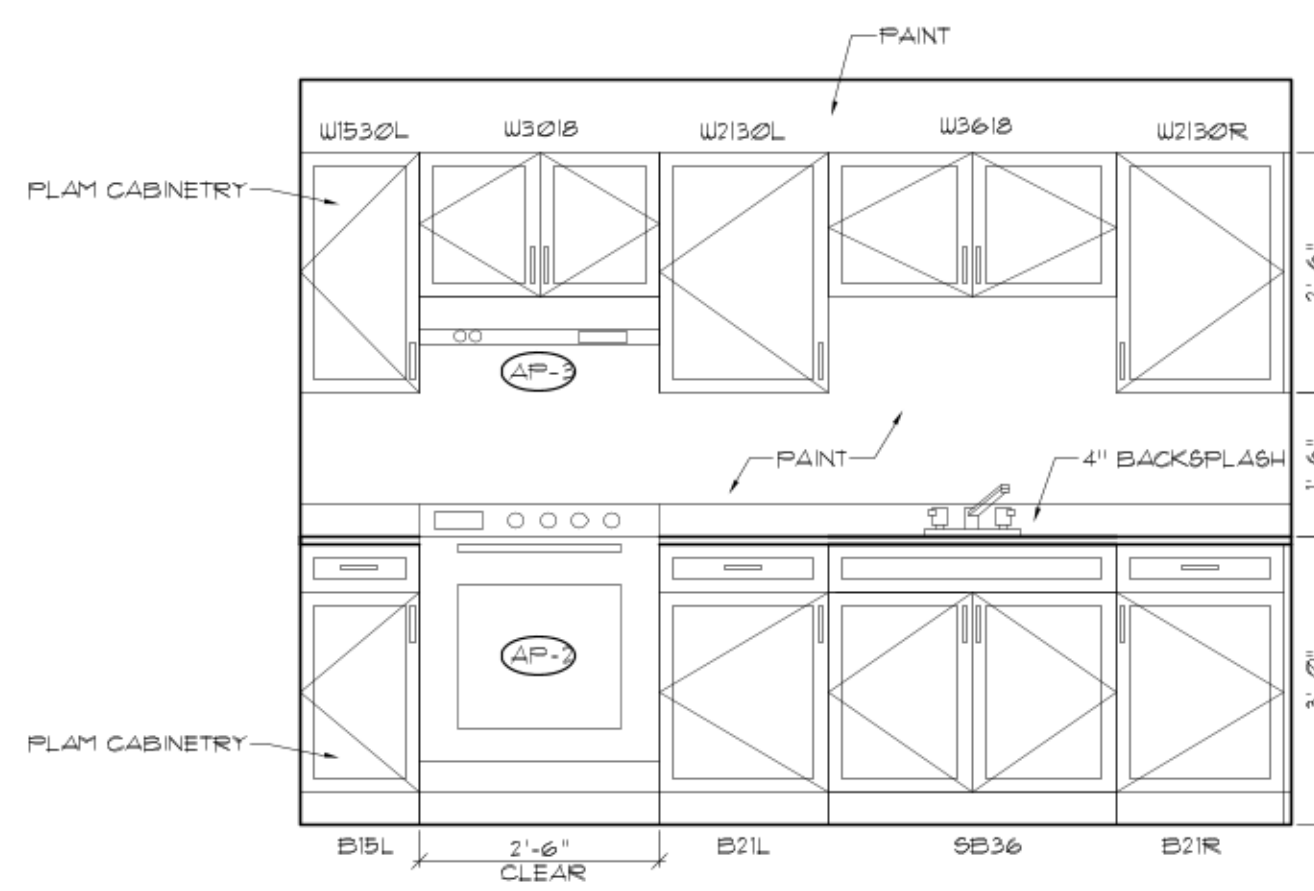
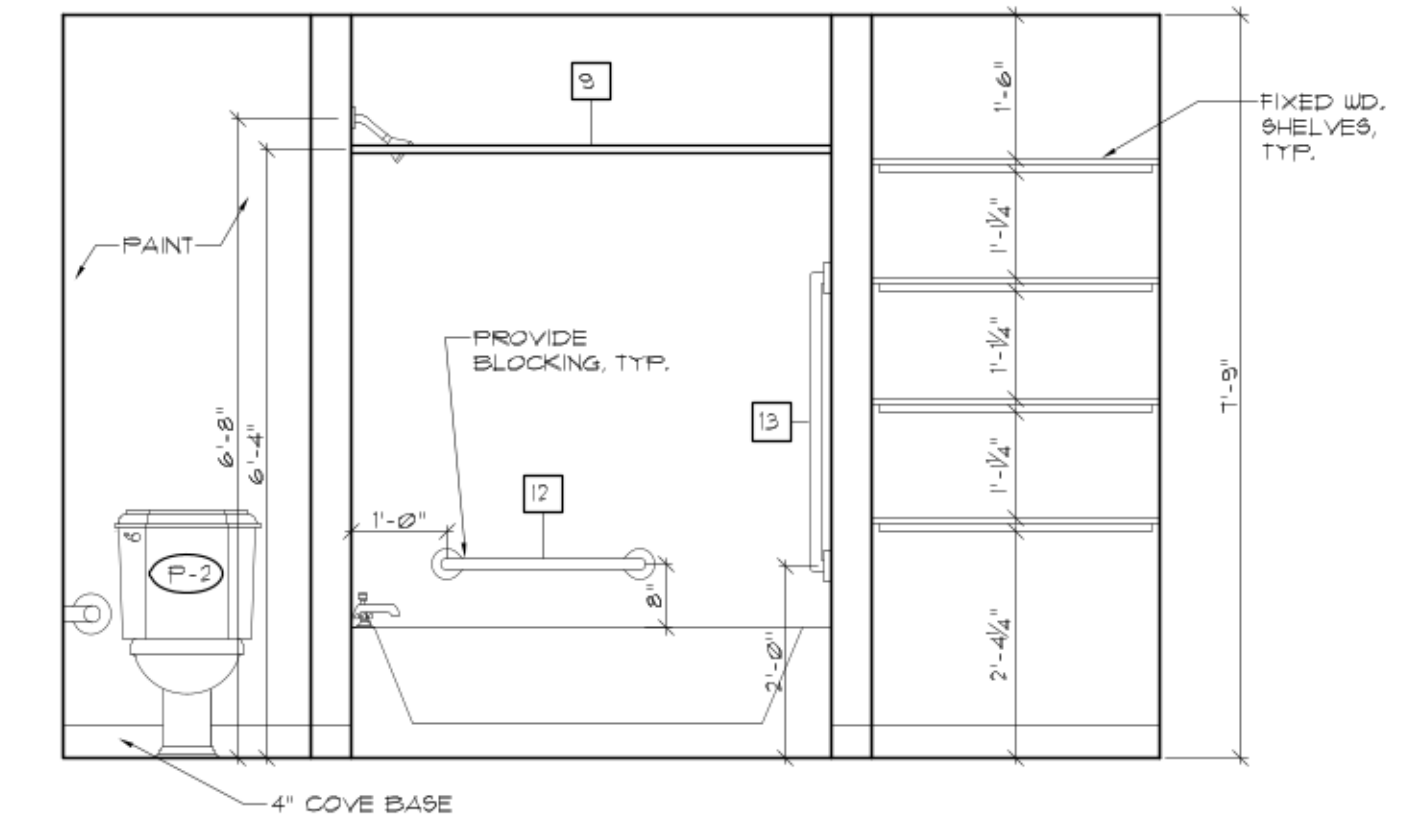
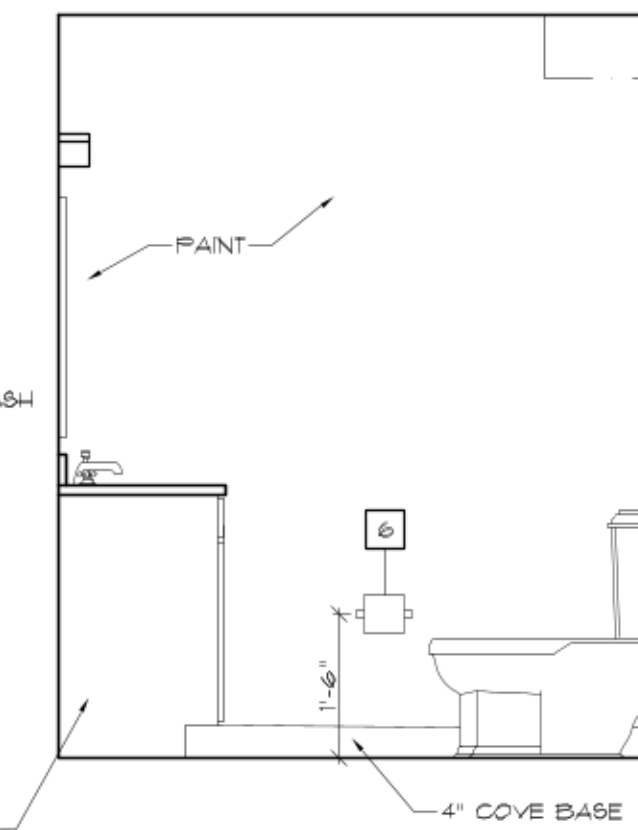
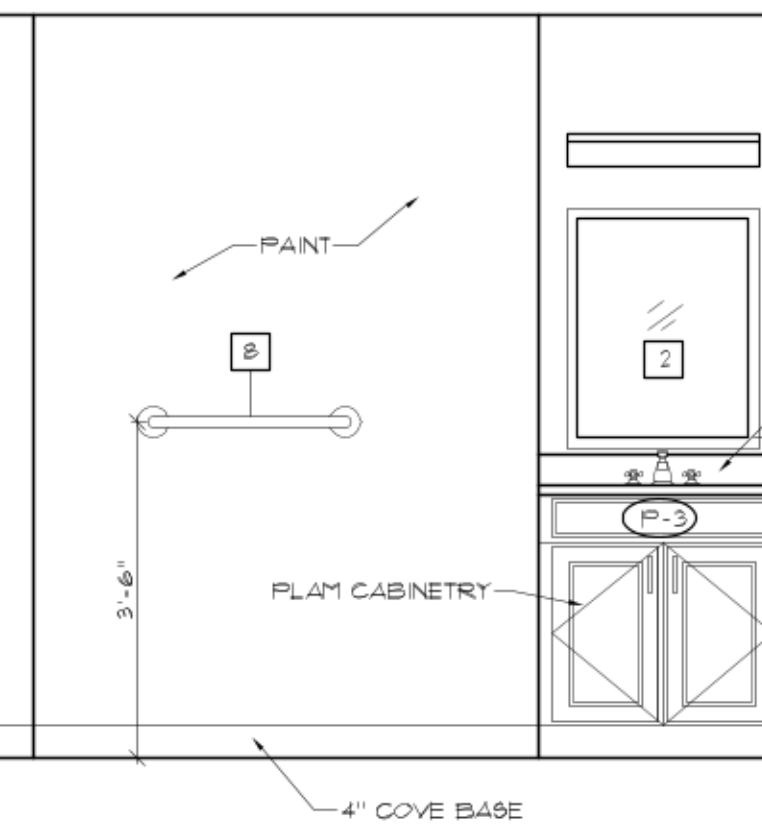
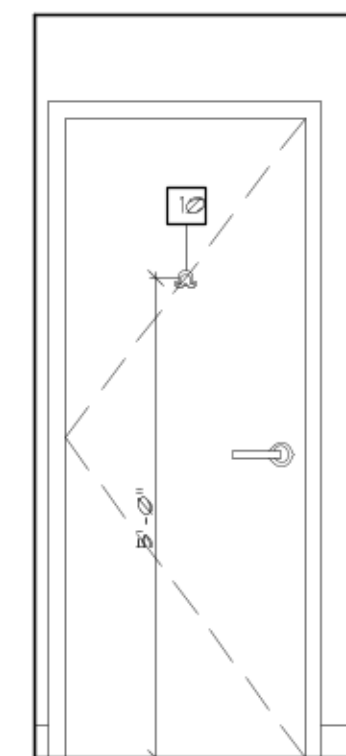
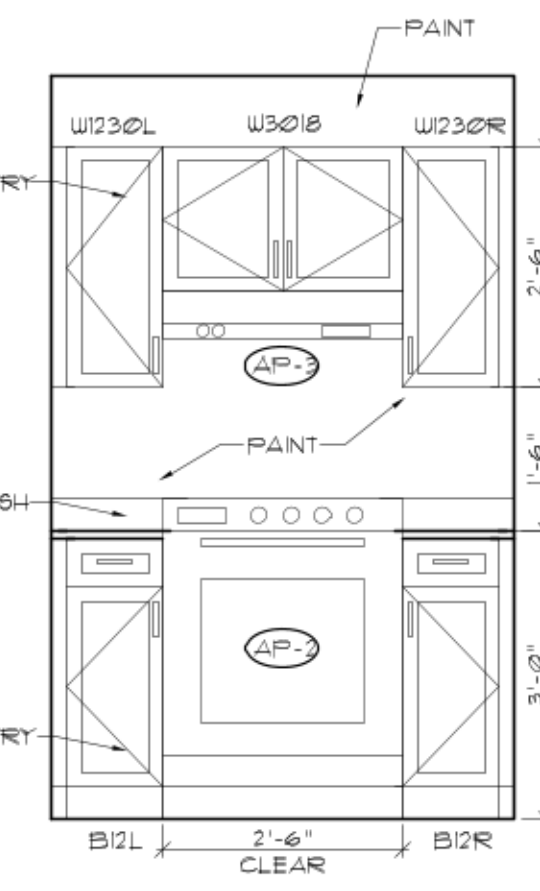
**LAVATORY 109**  
 LAVATORY 101 OPP. HAND



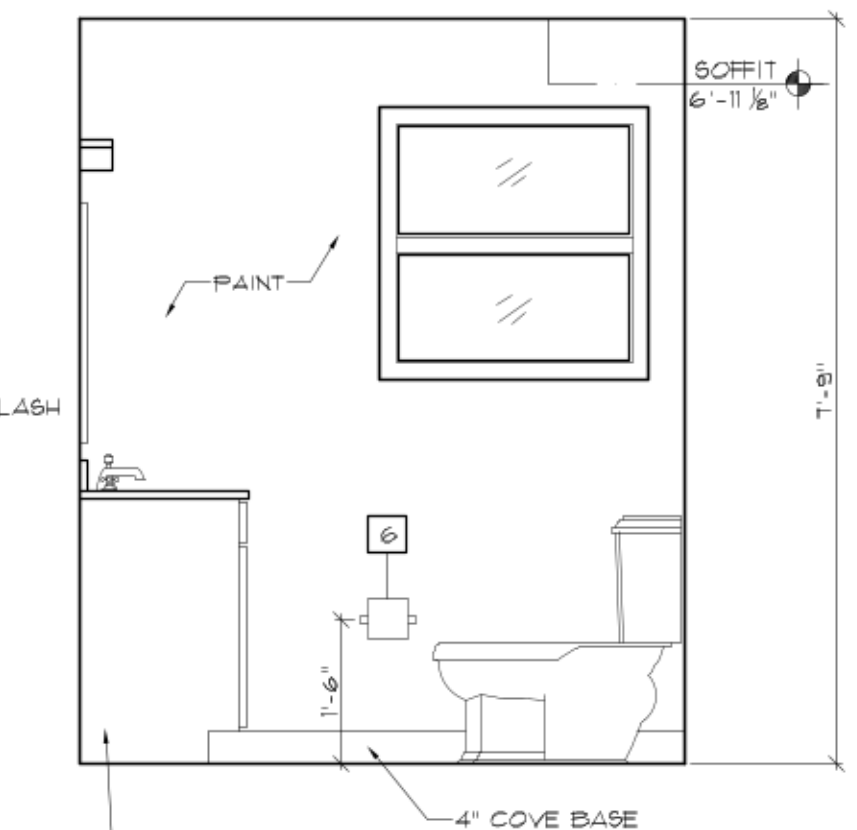
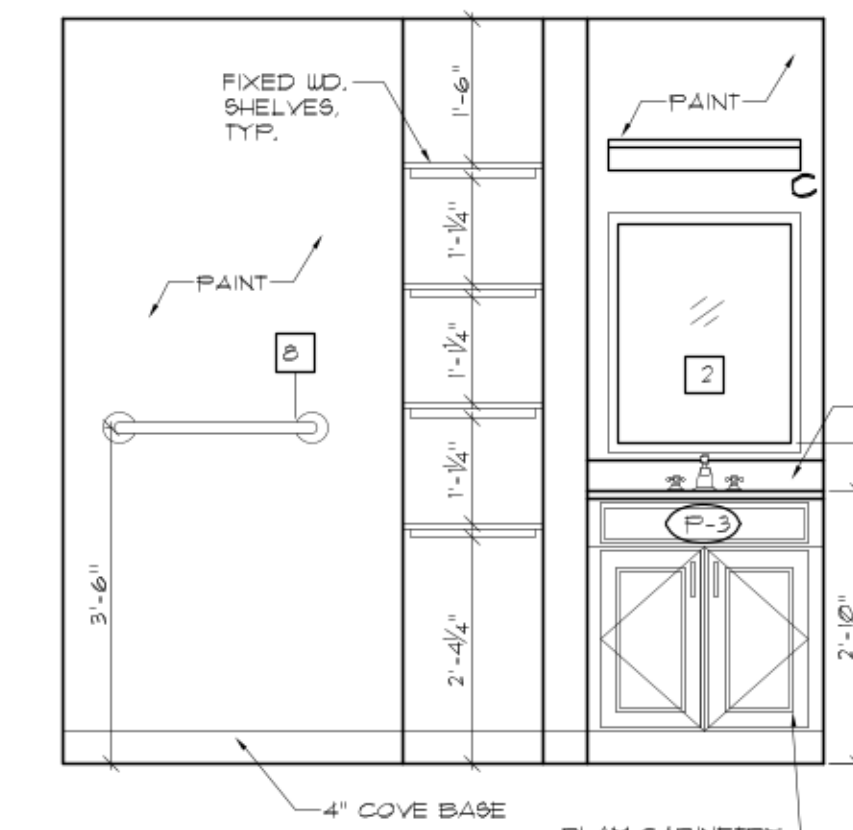
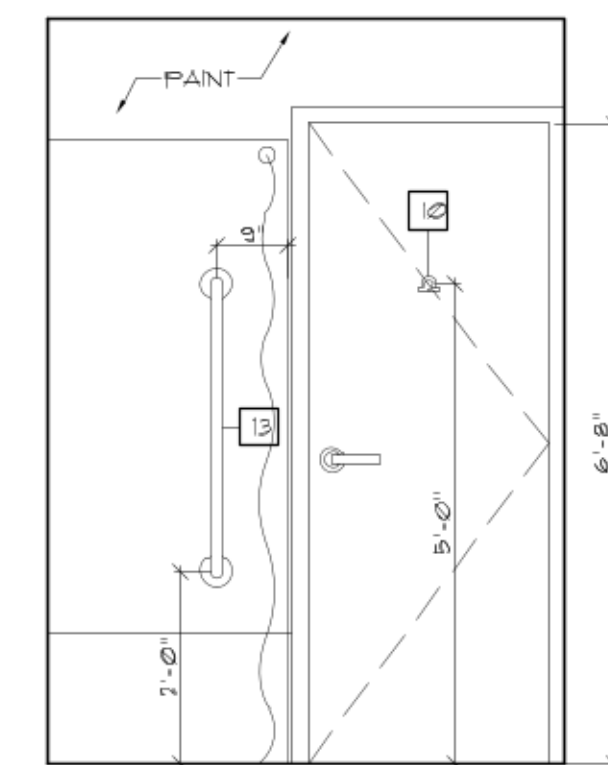
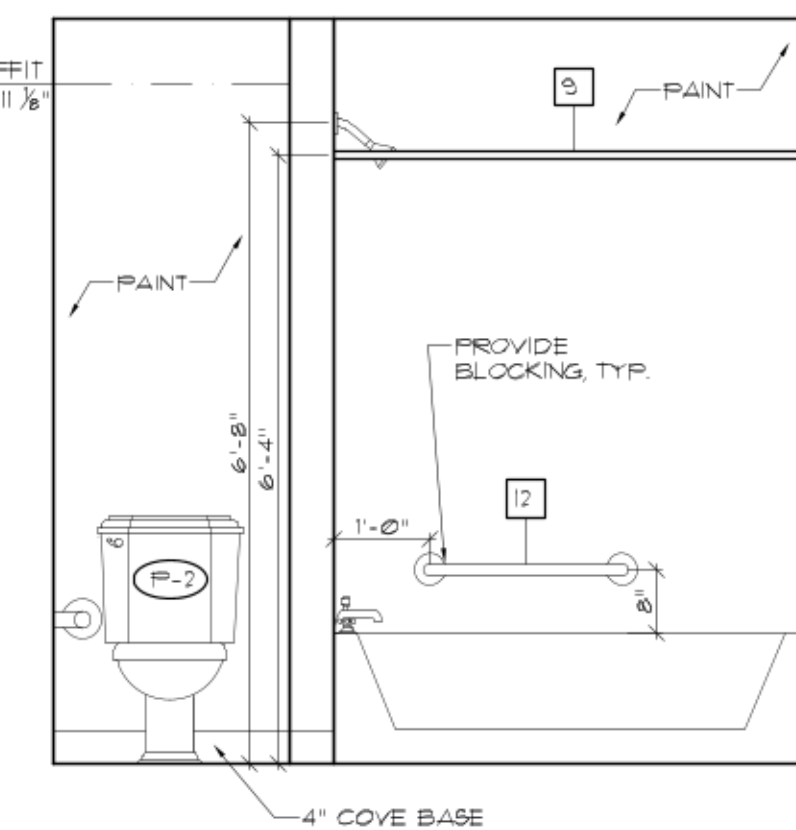
**ADMIN. ELEV.**  
 BASEMENT LAV.



**BUILDING 200 ELEVATIONS**  
 FIRST FLOOR TYPICAL



**BUILDING 200 ELEVATIONS**  
 FIRST FLOOR TYPICAL





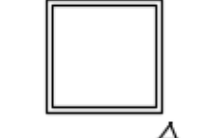





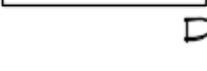





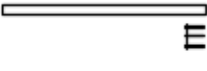

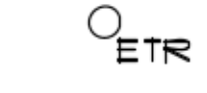





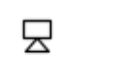
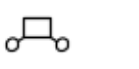

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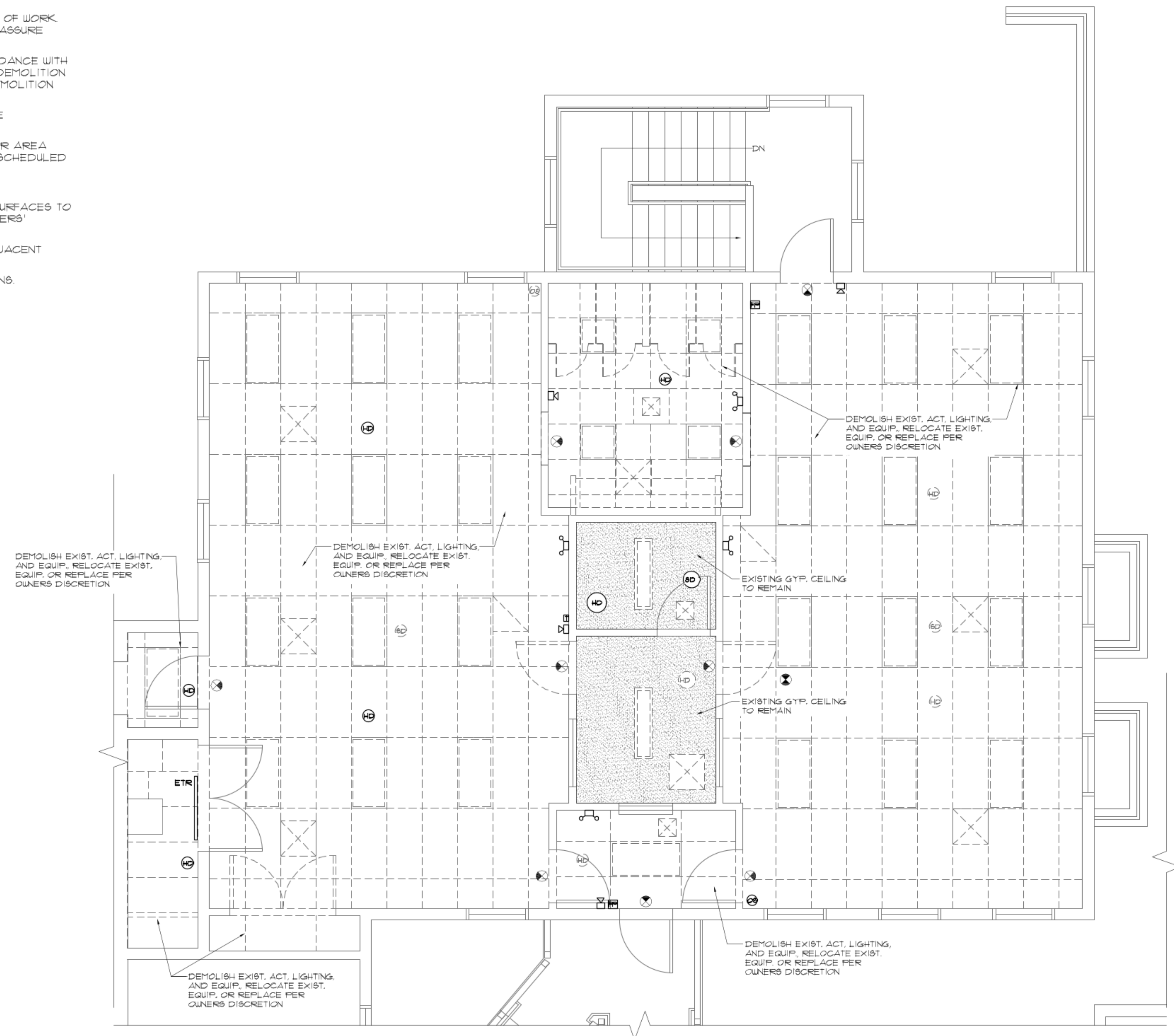
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**GENERAL NOTES:**

- ALL DIMENSIONS TO THE FACE OF FRAMING/STUDS UNLESS OTHERWISE NOTED.
- REFERENCE SCHEDULE SHEET FOR DOOR, WINDOW AND FINISH SCHEDULES.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT.
- PROVIDE BLOCKING IN WALLS FOR ALL FIXTURES AND ACCESSORIES.
- FLASH PATCH FLOOR AS NEEDED TO INSTALL FLOOR FINISHES.
- DOORS SHALL BE MOUNTED 5" AWAY FROM ADJACENT WALL, UNLESS NOTED OTHERWISE OR SHOWN IN DIFFERENT LOCATION.

**LEGEND**

	NEW 2x2 TROFFER		HVAC RETURN
	NEW 12"x48" LINEAR LIGHT		HVAC DIFFUSER
	NEW 24" VANITY LIGHT		HVAC DUCT
	NEW 48" LINEAR LIGHT		EXHAUST FAN W/ LIGHT
	NEW 11" FLUSHMOUNT LIGHT		FIRE PULL
	NEW 15" FLUSHMOUNT LIGHT		FIRE EXTINGUISHER
	EXISTING 48" LINEAR LIGHT		HEAT DETECTOR
	EXISTING SEMI-FLUSH LIGHT		OCCUPANCY SENSOR
	EXISTING FLUSHMOUNT LIGHT		COMBINATION
			SMOKE DETECTOR
			EXIT SIGN
			FIRE ALARM
			EMERGENCY LIGHT
			THERMOSTAT



**ADMINISTRATION BUILDING - DEMOLITION**  
 PART: FIRST FLOOR

2 1/4" = 1'-0"

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023




**GENERAL DEMOLITION NOTES:**

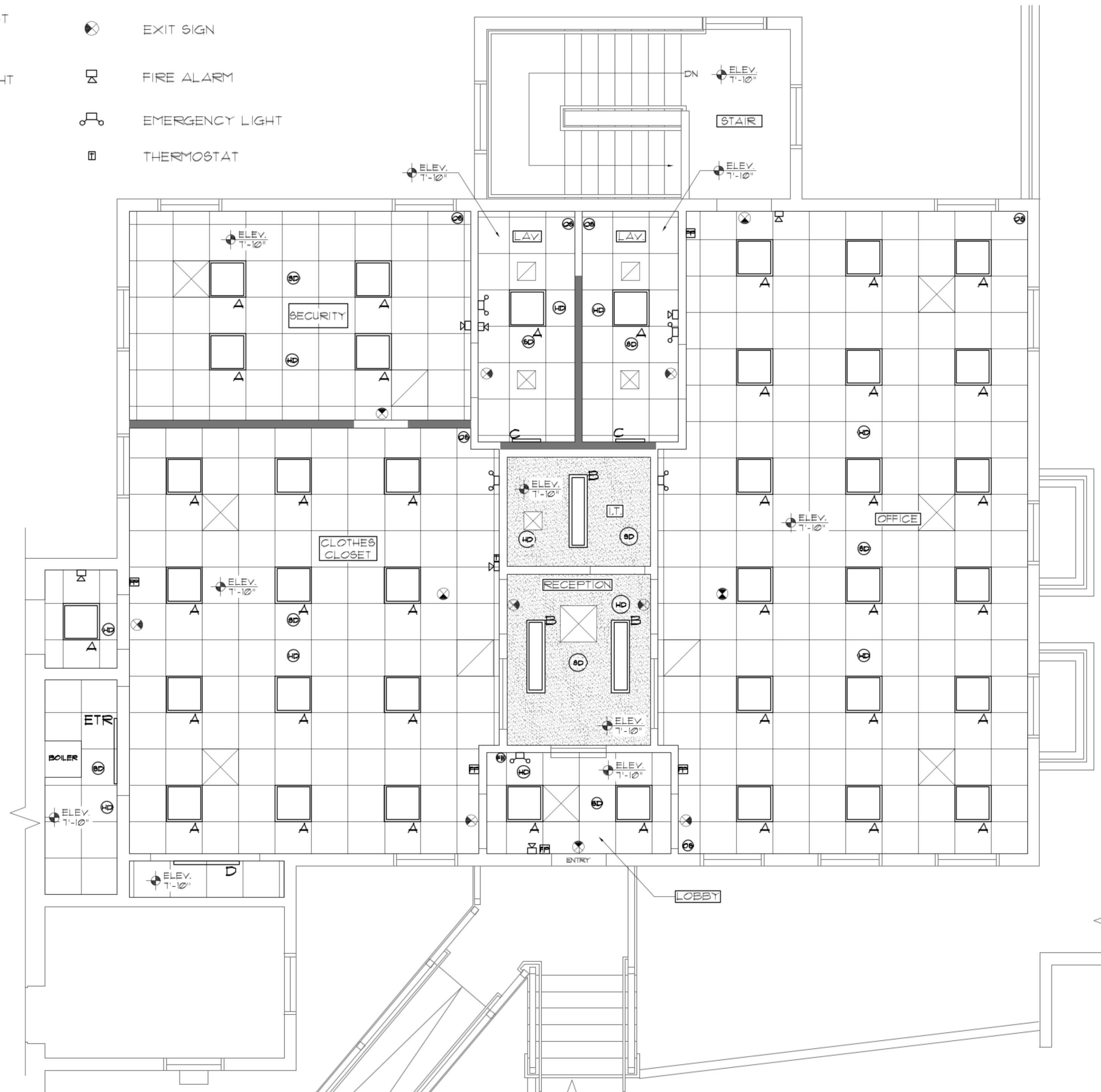
- A. ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. SECURE REQUIRED DEMOLITION PERMITS, ARRANGE WITH OWNER AND/OR APPROPRIATE UTILITIES FOR SERVICE SHUTOFFS BEFORE BEGINNING DEMOLITION OPERATIONS. IDENTIFY ALL EXISTING ITEMS OR WORK, HARDWARE AND DEVICES SCHEDULED TO REMAIN, OR TO BE SALVAGED FOR REUSE.
- B. BUILDING MAY BE OCCUPIED DURING DEMOLITION OPERATIONS. COORDINATE ALL DEMOLITION OPERATIONS WITH OWNER FOR SHUTDOWN PERIODS AND SEQUENCE OF WORK. PROVIDE TEMPORARY DUST PARTITIONS, BARRICADES AND PROTECTIVE ENCLOSURES REQUIRED TO PROPERLY SECURE AND ISOLATE AREAS OF WORK AND TO ASSURE CONTINUING FACILITY OPERATION.
- C. REMOVE ALL DEMOLISHED MATERIALS NOT SCHEDULED FOR SALVAGE AND REUSE OR THOSE TO BECOME PROPERTY OF THE OWNER AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. CONFIRM ALL ITEMS TO BE SALVAGED FOR REUSE AND ALL ITEMS TO BE SALVAGED AND RETURNED TO THE OWNER. DEMOLITION CONTRACTOR SHALL PROTECT ALL ITEMS SCHEDULED FOR SALVAGE AND SHALL REPLACE ANY SUCH ITEMS WHICH HAVE BECOME DAMAGED AS A RESULT OF DEMOLITION OPERATIONS.
- D. REUSE OF SALVAGED MATERIALS, NOT SPECIFICALLY SCHEDULED, WILL BE AT THE SOLE DISCRETION OF THE OWNER. IN NO CASE SHALL SALVAGED MATERIALS BE INCORPORATED IN THE WORK THAT DO NOT MEET MINIMUM REQUIREMENTS OF STATE AND LOCAL CODES AND REGULATIONS.
- E. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLITION WORK. MECHANICAL, ELECTRICAL, AND OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL, SHALL BE PERFORMED WHETHER SO NOTED OR NOT. PROTECT ALL ITEMS INTENDED FOR SALVAGE AND REUSE, OR SCHEDULED TO REMAIN.
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- G. PATCH/REPAIR/REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK AND MATCH/ALIGN WITH EXISTING ADJACENT SURFACES SCHEDULED TO REMAIN. PREP SURFACES TO RECEIVE ALL LABOR AND MATERIALS REQUIRED TO RENDER SUBSTRATES ACCEPTABLE TO RECEIVE NEW FINISHES SPECIFIED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN RECOMMENDATIONS.
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	EXISTING FLUSHMOUNT LIGHT		COMBINATION
			SMOKE DETECTOR
			EXIT SIGN
			FIRE ALARM
			EMERGENCY LIGHT
			THERMOSTAT



**ADMINISTRATION BUILDING - PROPOSED**  
PART, FIRST FLOOR

2 1/4" = 1'-0"



**LEGEND**

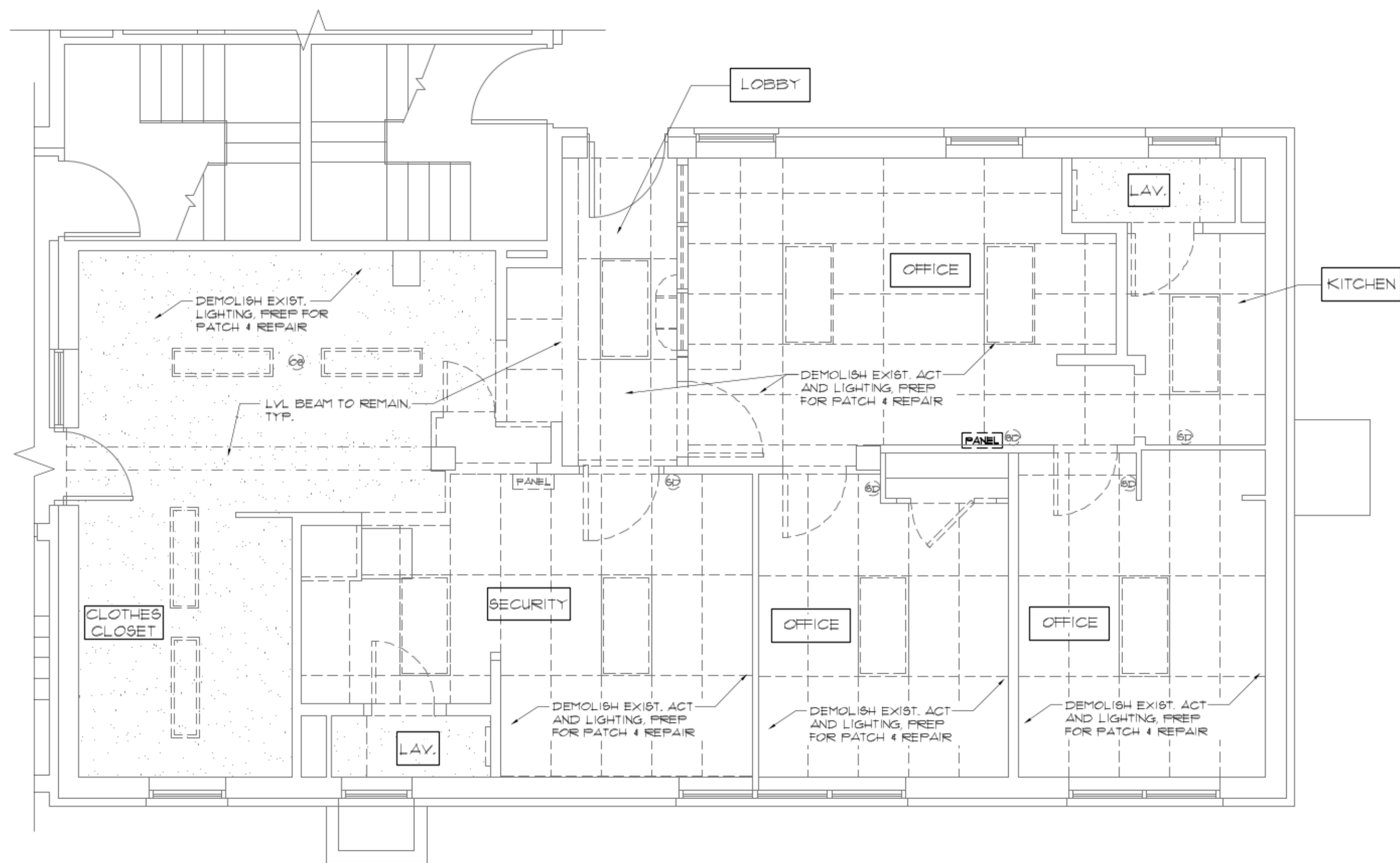
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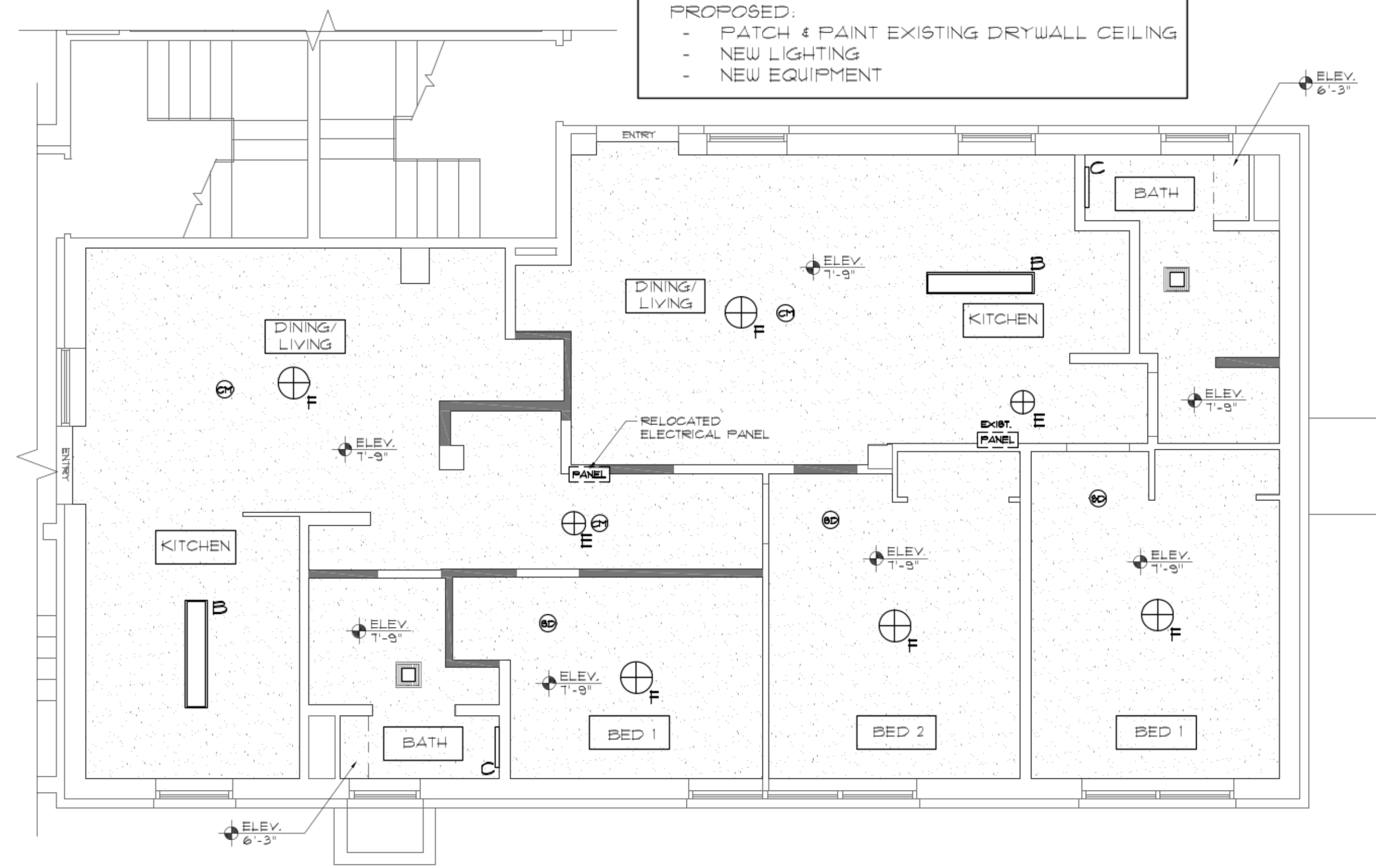
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**BUILDING 200 - DEMOLITION RCP**  
PART, FIRST FLOOR

1 1/8" = 1'-0"



**BUILDING 200 - PROPOSED RCP**  
PART, FIRST FLOOR

2 1/8" = 1'-0"



**ADMINISTRATION FINISH SCHEDULE**

ROOM NAME	WALLS	FLOORING	BASE	CEILING	REMARKS
LOBBY 100	F-3	LVP-1	WB-1	ACT-1	
RECEPTION 104	F-3	LVP-1	WB-1	GYP. BD.	
CLOSET 103	F-3	LVP-1	WB-1	ACT-1	
MECHANICAL 102	F-3	LVP-1	WB-1	ACT-1	
CLOTHES CLOSET 101	F-3	LVP-1	WB-1	ACT-1	
SECURITY 106	F-3	LVP-1	WB-1	ACT-1	
LAVATORY 107	F-3, FRP-1 @ WET WALLS	RS-1	WB-1	ACT-1	SEE SHEET 20
T. 105	F-3	LVP-1	WB-1	GYP. BD.	
LAVATORY 109	F-3, FRP-1 @ WET WALLS	RS-1	WB-1	ACT-1	SEE SHEET 20
OFFICE 108	F-3	LVP-1	WB-1	ACT-1	
OFFICE 009	F-3	LVP-1	WB-1	EXIST.	
HALL 005	F-3	LVP-1	WB-1	EXIST.	
LAVATORY 007	F-3	RS-1	WB-1	EXIST.	SEE SHEET 20
KITCHEN 006	F-3	LVP-1	WB-1	EXIST.	
UTILITY 008	F-3	EXIST.	EXIST.	EXIST.	
STAIR 51	F-3	RS-1	WB-1	EXIST.	

**UNIT FINISH SCHEDULE**

ROOM NAME	WALLS	FLOORING	BASE	CEILING	REMARKS
DINING/LIVING	F-1	LVP-1	WB-1	GYP. BD.	
KITCHEN	F-1	LVP-1	WB-1	GYP. BD.	
BATH	F-1	LVP-1	WB-1	GYP. BD.	
BEDROOM	F-1	LVP-1	WB-1	GYP. BD.	

**FINISH NOTES:**

- ALL WALL PAINT TO BE EGGSHELL FINISH, EXCEPT AT RESTROOMS AND SHOWERS TO BE SEMI-GLOSS FINISH.
- ALL TRIM & DOOR PAINT TO BE SEMI-GLOSS FINISH.
- MAINTENANCE ENTRANCE, STORAGE AREAS, AND DOWNSTAIRS MECHANICAL CLOSET FINISHES ARE EXISTING TO REMAIN.

**FINISH LIST**

- ACT-1: ACOUSTIC CEILING TILE  
MANUFACTURER: ARMSTRONG CEILING  
STYLE: ULTIMA HIGH NRC  
COLOR: WHITE  
SIZE: 24" X 24" X 7/8"  
TYPE: 1/2" SQUARE LAY IN ACOUSTIC 80 NRC/95 CAC/10 AC
- FRP-1: FIBERGLASS REINFORCED PANEL  
MANUFACTURER: FRANTLAIN FRP  
COLLECTION: C-GENERAL PURPOSE  
STYLE: SMOOTH  
COLOR: SILVER
- LVP-1: LUXURY VINYL PLANK FLOORING  
MANUFACTURER: FORTRAIT  
COLLECTION: HIGHLAND FOREST  
COLOR: SANDY OAK 20230  
SIZE: 4" X 36"  
WEAR LAYER: 20 MIL  
ORIENTATION/LAYOUT: STAGGERED
- LVP-2: LUXURY VINYL PLANK FLOORING  
MANUFACTURER: SHAW PROPERTY SOLUTIONS- (PHILADELPHIA COMMERCIAL)  
COLLECTION: IN THE GRAIN II 30  
COLOR: BLMWOOD 0010  
SIZE: 5/8" X 48"  
WEAR LAYER: 30 MIL  
ORIENTATION: STAGGERED
- P-1: WALL PAINT (UNITS)  
MANUFACTURER: SHERWIN WILLIAMS  
COLOR: UBERL GRAY SW7090  
FINISH: SEMI-GLOSS
- P-2: TRIM PAINT (UNITS)  
MANUFACTURER: UNKON (SHERWIN WILLIAMS TO MATCH)  
COLOR: BASEBOARD BEIGE (OIL BASED)  
FINISH: SEMI-GLOSS
- P-3: WALL PAINT (ADMIN. BLDG.)  
MANUFACTURER: SHERWIN WILLIAMS  
COLOR: SHITAKE SW873  
FINISH: SEMI-GLOSS
- P-4: TRIM PAINT (ADMIN. BLDG.)  
MANUFACTURER: SHERWIN WILLIAMS  
COLOR: NACRE SW814  
FINISH: SEMI-GLOSS
- P-5: CEILING PAINT  
MANUFACTURER: SHERWIN WILLIAMS  
COLLECTION: SUPER PAINT  
COLOR: FLAT WHITE  
FINISH: FLAT
- RB-1: RUBBER WALL BASE  
MANUFACTURER: TARKETT/JOHNSONITE  
COLLECTION: JOHNSONITE BASEWORKS THERMOSET  
RUBBER (TYPE 15)  
STYLE: 45° COVE BASE  
COLOR: 45 SANDALWOOD
- RS-1: RESILIENT SHEET  
MANUFACTURER: ALTRO FLOORING  
COLLECTION: ALTRO SERENADE  
STYLE: ROLLED GOODB  
COLOR: BOHEMIA  
SIZE: 6'-11" X 65'-5"  
WEAR LAYER: 28 MIL  
ORIENTATION: FRONT TO BACK, LENGTH WISE
- RT-1: RUBBER STAIR TREAD  
MANUFACTURER: TARKETT/JOHNSONITE  
COLLECTION: JOHNSONITE RUBBER STRINGERS AND RISERS  
STYLE: RAISED ROUND/ANGLED NOSE  
COLOR: 45 SANDALWOOD

**DOOR SCHEDULE**

KEY	LOCATION	DOOR TYPE	SIZE (WxH)	FRAME TYPE	MATERIAL	HARDWARE
<b>ADMINISTRATION BUILDING</b>						
01	SECURITY 106	HM-1	3'-0" X 6'-8"	HM-F	HM	OFFICE LEVER LOCKSET
02	LAVATORY 107	HM-1	3'-0" X 6'-8"	EXIST.	HM	PRIVACY LOCKSET
03	LAVATORY 109	HM-1	3'-0" X 6'-8"	EXIST.	HM	PRIVACY LOCKSET
04	CLOSET 103	HM-2	FR. 3'-0" X 6'-8"	EXIST.	HM	STOREROOM LOCKSET
<b>BUILDING 200 UNITS</b>						
05	CLOSET	WD-3	1'-9" X 6'-8"	WD.	WD.	D-HANDLES
06	BATH	WD-1	2'-6" X 6'-8"	HM-F	HM	PASSAGE LEVER
07	CLOSET	WD-4	FR. 1'-9" X 6'-8"	WD.	WD.	D-HANDLES
08	CLOSET	WD-3	2'-3" X 6'-8"	WD.	WD.	D-HANDLES
09	CLOSET	WD-3	2'-6" X 6'-8"	WD.	WD.	D-HANDLES
10	BATH	WD-1	2'-6" X 6'-8"	HM-F	HM	PASSAGE LEVER
11	BED	WD-1	2'-6" X 6'-8"	WD.	WD.	PASSAGE LEVER
12	CLOSET	WD-2	FR. 2'-0" X 6'-8"	WD.	WD.	D-HANDLES
13	CLOSET	WD-2	FR. 2'-0" X 6'-8"	WD.	WD.	D-HANDLES
14	BED	WD-1	2'-6" X 6'-8"	WD.	WD.	PASSAGE LEVER
15	BED	WD-1	2'-6" X 6'-8"	WD.	WD.	PASSAGE LEVER
16	CLOSET	WD-2	FR. 1'-6" X 6'-8"	WD.	WD.	D-HANDLES

**NOTES:**

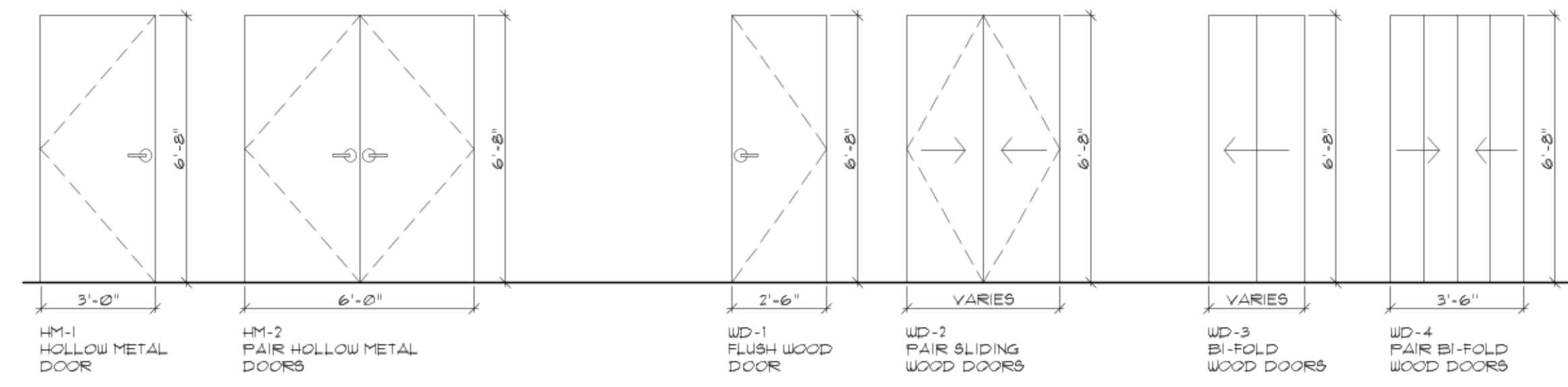
- CONTRACTOR TO VERIFY ALL MEASUREMENTS IN FIELD. NOTIFY ARCHITECT OF ANY CONFLICTS.
- CAULK GAPS & PENETRATIONS.
- AT ALL RATED CONDITIONS, SEAL ALL GAPS & PENETRATIONS WITH FIRE RATING AND/OR FIRE RATED SEALANT.

**ACCESSORY SCHEDULE**

KEY	TYPE	SIZE	COLOR	MOUNTING HEIGHTS	REMARKS
01	MIRROR	BOBRICK B-2908 2436, 24" X 36"	STAINLESS STEEL	MOUNT @ 40" MAX TO BOTTOM	TEMPERED GLASS
02	MIRROR W/ RECESSED MEDICINE CABINET	KOHLER K-2943-PG, 24" X 36"	SATIN ANODIZED ALUMINUM	MOUNT @ 40" MAX TO BOTTOM	TEMPERED GLASS, PART K-720 REQ. @ PURCHASE
03	SOAP DISPENSER	BOBRICK 016615	STAINLESS STEEL	MOUNT 44" MAX ABOVE FLOOR	
04	TOILET TISSUE DISPENSER	BOBRICK B-7888	STAINLESS STEEL	MOUNT @ 5" MIN. ABOVE FLOOR	
05	TOWEL DISPENSER	BOBRICK B-12914	N/A	MOUNT @ 45 3/8" ABOVE FLOOR	
06	TOILET TISSUE DISPENSER	BOBRICK B-6885	SATIN FINISH	MOUNT @ 5" MIN. ABOVE FLOOR	
07	TOWEL BAR	BOBRICK B-6131 X 18, 18"	SATIN	MOUNT @ 48" ABOVE FLOOR	
08	TOWEL BAR	BOBRICK B-6131 X 24, 24"	SATIN	MOUNT @ 48" ABOVE FLOOR	
09	SHOWER ROD	ANY	STAINLESS STEEL	MOUNT @ 14" ABOVE FLOOR	
10	DOUBLE ROBE HOOK	B-16121	SATIN	MOUNT @ 54" ABOVE FLOOR	
11	GRAB BAR	BOBRICK B-5806.99 X 18"	SATIN	MOUNT 40" MAX ABOVE FLOOR	FEENEED SURFACE
12	GRAB BAR	BOBRICK B-5806.99 X 24"	SATIN	MOUNT 36" MAX ABOVE FLOOR	FEENEED SURFACE
13	GRAB BAR	BOBRICK B-5806.99 X 36"	SATIN	MOUNT 36" MAX ABOVE FLOOR	FEENEED SURFACE
14	GRAB BAR	BOBRICK B-5806.99 X 42"	SATIN	MOUNT 36" MAX ABOVE FLOOR	FEENEED SURFACE

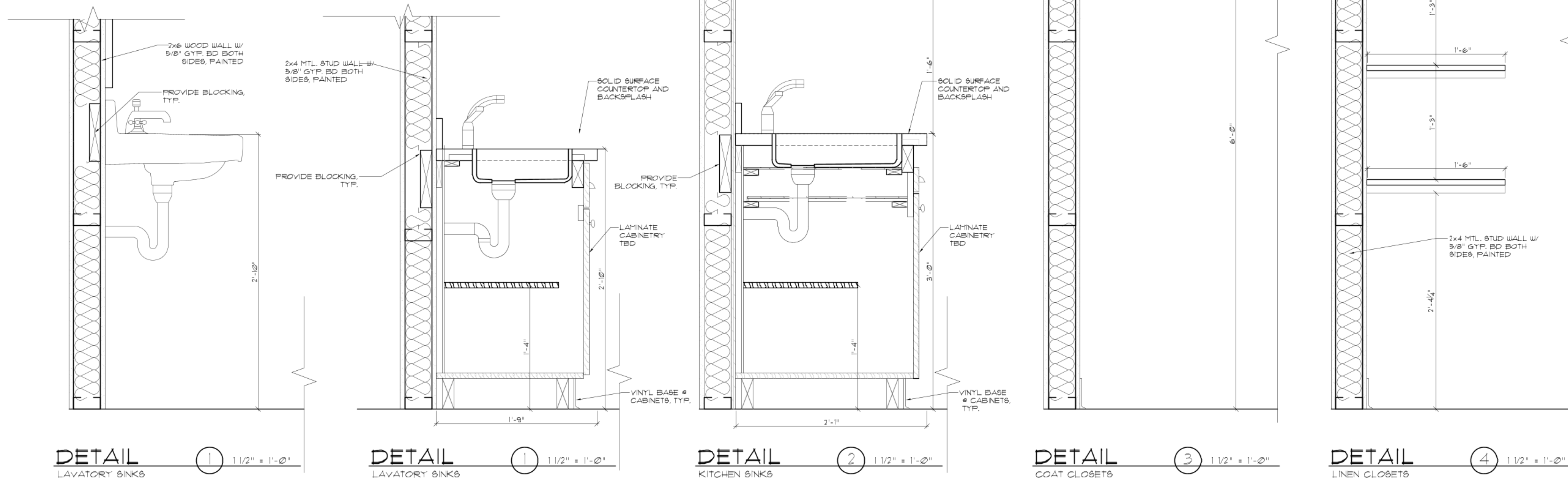
NOTES: 1. PROVIDE BLOCKING IN WALLS FOR ALL ACCESSORIES, TYP.

**DOOR TYPES**



**APPLIANCE SCHEDULE - UNIT BUILDINGS**

KEY	NAME	MANUFACTURER	MODEL #
AP-1	REFRIGERATOR	HOTPOINT	HPB88BTN
AP-2	RANGE	HOTPOINT	RGB8800DM
AP-3	RANGE HOOD	GENERAL ELECTRIC	JVX3300DJ



**DETAIL 1** 1 1/2" = 1'-0"  
LAVATORY SINKS

**DETAIL 1** 1 1/2" = 1'-0"  
LAVATORY SINKS

**DETAIL 2** 1 1/2" = 1'-0"  
KITCHEN SINKS

**DETAIL 3** 1 1/2" = 1'-0"  
COAT CLOSETS

**DETAIL 4** 1 1/2" = 1'-0"  
LINEN CLOSETS



# PLUMBING SYMBOLS, LEGEND & ABBREVIATIONS

ABBREVIATIONS		GENERAL		PIPING		MISCELLANEOUS		VALVES		
CO	CLEANOUT		CE	CAP OR PLUG EXISTING		ETR	EXISTING WORK TO REMAIN (ABOVE GROUND) (PERTAINS TO ALL SYSTEMS)		CONNECT TO EXISTING	
CTE	CONNECT TO EXISTING		CO	CLEANOUT		DEM	EXISTING WORK TO BE REMOVED ABOVE GROUND (PERTAINS TO ALL SYSTEMS)		RISER DESIGNATION { NUMBER DENOTES WATER LETTER DENOTES SANITARY	
CW	COLD WATER		CTE	CONNECT TO EXISTING		ETR	EXISTING WORK TO REMAIN BELOW GROUND OR FLOOR (PERTAINS TO ALL SYSTEMS)		CAPPED CONNECTION DESIGNATION { TOP DENOTES SIZE (IN.) BOTTOM DENOTES SERVICE TYPE SIDE DENOTES FUTURE FIXTURE UNITS	
DEMO	DEMOLITION		FD-A	DRAIN (FLOOR DRAIN & TYPE)		DEM	EXISTING WORK TO BE REMOVED BELOW GROUND OR FLOOR (PERTAINS TO ALL SYSTEMS)		EXISTING PLUMBING FIXTURE TO BE REMOVED (SAMPLE)	
DN	DOWN		DN	DOWN (PENETRATES LEVEL BELOW)			NEW WORK TO BELOW GROUND OR FLOOR (PERTAINS TO ALL SYSTEMS)		EQUIPMENT DESIGNATION	
ETR	EXISTING TO REMAIN			DROP (DOES NOT PENETRATE LEVEL BELOW)				<b>LEGEND NOTE:</b> NOT ALL SYMBOLS ARE NECESSARILY USED, ABSENCE OF A SYMBOL ON THE DRAWINGS DOES NOT NECESSARILY MEAN IT IS NOT REQUIRED. REFER TO DETAILS & SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF WORK REQUIRED.		
FD-A	DRAIN (FLOOR DRAIN & TYPE)			INDICATES DIRECTION OF FLOW					RFBFP	BACKFLOW PREVENTER
GC	GENERAL CONTRACTOR			INDICATES DIRECTION OF SLOPE DOWN					BV	BALANCING VALVE
GPH	GALLONS PER HOUR			KEY DESIGNATION						BALANCING VALVE ASSEMBLY
GPM	GALLONS PER MINUTE			RISE (DOES NOT PENETRATE LEVEL ABOVE)					CV	CHECK VALVE
HB	HOSE BIBB			UP (PENETRATES LEVEL ABOVE)					DV-A	DRAIN VALVE TYPE WITH HOSE THREADS
HB-A	HOSE BIBB WITH HOSE THREADS			WALL HYDRANT					HB-A	HOSE BIBB TYPE WITH HOSE THREADS
HW	HOT WATER			WASTE & TRAP						HOT WATER CIRCULATION FLOW SPLITTER
HWC	HOT WATER RECIRCULATION			WASTE & TRAP					PRV	PRESSURE REDUCING VALVE
IN	INCHES			WASTE & TRAP						SHUTOFF VALVE
LAV	LAVATORY			WASTE & TRAP						SHUTOFF VALVE (EXISTING)
S & V	SOIL & VENT			WASTE & TRAP					SV	SOLENOID VALVE
S or W	SOIL OR WASTE			WASTE & TRAP					VIV	VALVE IN VERTICAL
TYP	TYPICAL			WASTE & TRAP						
V	VENT			WASTE & TRAP						
W & T	WASTE & TRAP			WASTE & TRAP						
W & V	WASTE & VENT			WASTE & TRAP						

### GENERAL RENOVATION NOTES:

- THE PLUMBING CONTRACTOR SHALL REVIEW ALL OF THE ARCHITECTS AND OTHER TRADES DRAWINGS TO VERIFY ALL AREAS OF RENOVATION AND TO GET A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED BY THIS PROJECT.
- PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. RENOVATION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER.
- COORDINATE ALL WORK WITH THE BUILDING OWNER 10 DAYS PRIOR TO DISRUPTION TO ANY PLUMBING SERVICES.
- DISCONNECT AND REMOVE ALL PLUMBING FIXTURES, WATER & WASTE & VENT PIPING, VALVES AND FITTINGS, HANGERS, SUPPORTS, AND ALL OTHER PLUMBING COMPONENTS MADE OBSOLETE BY THIS PROJECT. ALL MATERIALS SHALL BECOME THE PROPERTY OF THE OWNER.
- REFER TO ALL CONSTRUCTION DOCUMENTS TO GAIN A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED.
- ALL HVAC UNITS SCHEDULED TO BE REMOVED OR RE-LOCATED SHALL BE DONE SO BY THE HVAC CONTRACTOR. THE PLUMBING CONTRACTOR SHALL DISCONNECT GAS PIPING AND MAKE-SAFE FOR REMOVAL.
- TEMPORARY WALL OPENINGS AND/OR MODIFICATIONS REQUIRED FOR REMOVAL/INSTALLATION OF EQUIPMENT SHALL BE PROVIDED AS NEEDED AND COORDINATED WITH THE GENERAL CONTRACTOR.
- CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED PLUMBING EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING, BUT NOT LIMITED TO, REMOVAL OF PLUMBING ITEMS INDICATED TO BE REMOVED AND ITEMS MADE OBSOLETE BY THE WORK. THE OWNER RESERVES THE OPTION OF SALVAGE RIGHTS TO DEMOLISHED MATERIAL AND REMOVED EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO OBTAIN A LIST OF MATERIALS AND REMOVED

EQUIPMENT TO BE TURNED OVER TO THE OWNER. ALL OTHER MATERIAL AND REMOVED EQUIPMENT NOT BEING SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.

- PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED. PROTECT THE PLUMBING WORK AND THE WORK OF OTHERS IN A MANNER BEST SUITED TO THE PARTICULAR CASE. CORRECT ANY DAMAGE DONE TO ANY WORK AT NO ADDITIONAL COST.
- PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS.
- MAINTAIN ACCESS TO EXISTING PLUMBING INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- PROVIDE TEMPORARY WATER & WASTE CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- EXISTING WATER & WASTE SERVICES: MAINTAIN EXISTING SYSTEMS IN SERVICE COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AND ARCHITECT/ENGINEER AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA AS REQUIRED.
- THESE DRAWINGS HAVE BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION AND ARE NOT INTENDED TO LIMIT THE SCOPE OF THE WORK. THE PLUMBING CONTRACTOR MAY ENCOUNTER HIDDEN OR COVERED CONDITIONS, NOT INDICATED IN THESE DOCUMENTS, REQUIRING THE PLUMBING CONTRACTOR TO PROVIDE ADDITIONAL WORK FOR THE COMPLETION OF HIS OR HER CONTRACT. IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE PRIOR TO BIDDING AND VERIFIED THE INFORMATION SUPPLIED HEREIN.
- PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, PLUMBING FIXTURES, ETC. WHICH ARE TO REMAIN & TO PREVENT DAMAGE DURING ALL CONSTRUCTION PHASES.

### GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL REFER TO THE PLUMBING SPECIFICATIONS.
- GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
- DRAWINGS ARE DIAGRAMMATIC; DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LOCAL STATE PLUMBING CODE, THE LOCAL STATE BUILDING CODE AND THE DRAWINGS. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- MANUFACTURERS' MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
- ALL PRODUCT INSTALLATIONS SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
- RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
- PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
- PROVIDE VENTS AT HIGH POINTS IN PRESSURE PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS IN ESTABLISHING PIPE RUNS AND SPACE CONDITIONS.
- FOR SIZES AND REQUIREMENTS OF ALL HVAC EQUIPMENT SHOWN IN THESE DRAWINGS, REFER TO HVAC DRAWINGS AND SPECIFICATIONS.
- PRIOR TO THE START OF CORING ANY STRUCTURAL MEMBER PLUMBING SUBCONTRACTOR SHALL COORDINATE LOCATION OF PENETRATION WITH STRUCTURAL ENGINEER AND GENERAL CONTRACTOR. PLUMBING SUBCONTRACTOR SHALL PREPARE AND SUBMIT TO STRUCTURAL ENGINEER AND ARCHITECT A SET OF PENETRATION DRAWINGS DURING COORDINATION DRAWING REVIEW PERIOD. PLUMBING SUBCONTRACTOR MAY DEViate FROM LOCATIONS OF PENETRATIONS AS SHOWN ON PLUMBING DRAWINGS BUT MUST COORDINATE ALTERNATIVE LOCATIONS WITH STRUCTURAL ENGINEER.
- PRIOR TO START OF INSTALLATION OF BELOW SLAB PIPING, PLUMBING SUBCONTRACTOR SHALL COORDINATE LOCATIONS OF PIPING WITH STRUCTURAL FOOTINGS, GRADE BEAMS, ETC. WITH STRUCTURAL ENGINEER.
- PRIOR TO INSTALLATION OF UNDER SLAB PIPING AT GROUND FLOOR, PLUMBING SUBCONTRACTOR SHALL COORDINATE ALL EXTERIOR INVERT ELEVATIONS WITH CIVIL ENGINEER.
- PRIOR TO INSTALLATION OF ANY SURFACE MOUNTED OR RECESSED PLUMBING COMPONENTS (I.E. WALL HYDRANTS, PIPING PENETRATIONS, ETC.) ON EXTERIOR OF BUILDING, PLUMBING SUBCONTRACTOR SHALL COORDINATE THEIR EXACT LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.
- PRIOR TO INSTALLATION OF ANY FLOOR DRAINS THIS ENTIRE PROJECT, PLUMBING

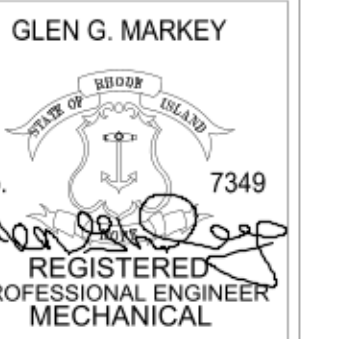
- SUBCONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF DRAINS WITH MECHANICAL SUBCONTRACTOR & ARCHITECT.
- PLUMBING SUBCONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS WITH ROOFING SUBCONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR FLASHING AT ALL ROOF PENETRATIONS.
- THE PLUMBING SUBCONTRACTOR SHALL INSULATE ALL SANITARY, WASTE AND CONDENSATE PIPING AT THE CEILING OF THE TOP FLOOR.
- PLUMBING SUBCONTRACTOR SHALL INSTALL TRAP PRIMER VALVES FOR ALL FLOOR DRAINS LOCATED WITHIN BUILDING. THE PLUMBING SUBCONTRACTOR SHALL COORDINATE EXACT LOCATION OF TRAP PRIMER VALVE AND WATER PIPING IN FIELD.
- NOT ALL BRANCH PIPING AND OR OFFSETS FOR SOIL, WASTE, VENT AND DOMESTIC WATER PIPING IS SHOWN FOR CLARITY PURPOSES. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING SUBCONTRACTOR TO OWN THE PROVISION OF THIS PIPING DURING BIDDING AND CONSTRUCTION.
- EACH INDIVIDUAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY FIRE STOPPING OF SLEEVES, PIPING, ELECTRICAL PIPING, DUCTWORK, ETC. PENETRATING ALL RATED PARTITIONS, FLOORS, AND CEILINGS FOR HIS/HER OWN WORK.
- ALL WASTE/SANITARY AND STORM STACKS SHALL HAVE A CLEAN OUT AT THEIR BASE.
- THE PLUMBING SUBCONTRACTOR SHALL HEAT TRACE AND INSULATE ALL PIPING SUBJECTED TO FREEZING TEMPERATURES.
- PLUMBING SUBCONTRACTOR SHALL REFER TO PLUMBING FLOOR PLANS FOR ALL NATURAL GAS DISTRIBUTION PIPE SIZES.
- PRIOR TO THE START OF WORK THE PLUMBING SUBCONTRACTOR SHALL COORDINATE ALL STACK LOCATIONS WITH ARCHITECT AND CONSTRUCTION MANAGER TO AVOID STRUCTURAL AND PARTITION CONFLICTS.
- PRIOR TO THE START OF WORK THE PLUMBING SUBCONTRACTOR SHALL COORDINATE THE REQUIREMENTS FOR AND THE LOCATIONS OF ALL EQUIPMENT PERTAINING TO THE PROJECT.
- ALL PLUMBING SYSTEMS TO BE INSTALLED IN PARTITIONS WHERE POSSIBLE, COORDINATE WITH GENERAL CONTRACTOR/CONSTRUCTION MANAGER PRIOR TO START OF WORK.
- PLUMBING SUBCONTRACTOR SHALL OWN DRIP LEGS AND SHUT OFF VALVES AT THE BASE OF ALL NATURAL GAS RISERS AND AT ALL CONNECTIONS TO EQUIPMENT.
- PLUMBING SUBCONTRACTOR SHALL OWN ALL FINAL CONNECTIONS OF GAS PIPING TO ALL GAS FIRED EQUIPMENT.
- PLUMBING SUBCONTRACTOR SHALL OBTAIN ALL BUILDING STANDARDS & LEASE AGREEMENTS (IF APPLICABLE) PRIOR TO START OF BIDDING & SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.

## PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE INFORMATION				FITTING INFORMATION			CONNECTION SIZES				TRAP	CARRIER	MAXIMUM WATER CONSUMPTION	REMARKS AND SPECIFICATIONS
	DESCRIPTION	MANUFACTURER	MODEL	COLOR/FINISH	TYPE	MAKE/MODEL	SUPPLY	WASTE	VENT	HW	CW				
LAV-1	LAVATORY (ADA)	AMERICAN STANDARD	AQUALYN COUNTERTOP SINK	WHITE	FAUCET-MOUNT	MOEN FAUCET WS84503	4" CENTERS, 2 HANDLE, POP-UP STRAINER	2"	2"	1/2"	1/2"	1-1/4"x1-1/2" CAST BRASS P-TRAP w/C.O. PLUG	-	1.2 GPM	G.C. SHALL COORDINATE FINAL SELECTIONS WITH OWNER PRIOR TO BIDDING/CONSTRUCTION. PROVIDE WITH 0.5 GPM AERATOR.
LAV-2	LAVATORY (ADA)	AMERICAN STANDARD	LUCERNE 0355.012	WHITE	FAUCET-MOUNT	MOEN FAUCET WS84503	4" CENTERS, 2 HANDLE, POP-UP STRAINER	2"	2"	1/2"	1/2"	1-1/4"x1-1/2" CAST BRASS P-TRAP w/C.O. PLUG	ZURN OR EQUAL	1.2 GPM	G.C. SHALL COORDINATE FINAL SELECTIONS WITH OWNER PRIOR TO BIDDING/CONSTRUCTION. PROVIDE WITH 1.5 GPM AERATOR.
SK-1	SINK (ADA)	ELKAY	DOUBLE BOWL CR3321	20 GAUGE 304 STAINLESS STEEL	SURFACE MOUNTED	MOEN 87202	4" CENTERS W/ SWING SPOUT	2"	2"	1/2"	1/2"	1-1/4"x1-1/2" CAST BRASS P-TRAP w/C.O. PLUG	-	1.5 GPM	G.C. SHALL COORDINATE FINAL SELECTIONS WITH OWNER PRIOR TO BIDDING/CONSTRUCTION. PROVIDE WITH 2.0 GPM AERATOR.
WC-1	WATER CLOSET (ADA)	MANSFIELD	147-144 QUANTUM	WHITE	FLOOR-MOUNTED	MANFIELD CHROME TRIP LEVER	SUPPLY WITH STOP & LOOSE KEY	4"	2"	-	1/2"	INTEGRAL	-	1.28 GPF	G.C. SHALL COORDINATE FINAL SELECTIONS WITH OWNER PRIOR TO BIDDING/CONSTRUCTION.
TS-1	TUB/SHOWER	OASIS	VURSA kd SERIES TS3P-6030	WHITE	SHOWER-MOUNT	NIAGARA N2917CH	-	2"	2"	1/2"	1/2"	2" P-TRAP	-	1.5 GPM	PROVIDE IN WHITE WITH GRAB BARS, CURTAIN ROD, AND VINYL FLEXIBLE DAM. SHOWER CONTROLS SHALL BE SYMMONS S-9600-P-TRM, 1.5 GPM FLOW RESTRICTORS AND INTEGRAL SERVICE STOPS. PRESSURE BALANCING VALVE. SHOWER HEAD SHALL BE LOCATED ON SHORT WALL OPPOSITE FOLD UP SEAT. OUTLET WATER SHALL BE SET TO A MAX TEMP OF 110°.

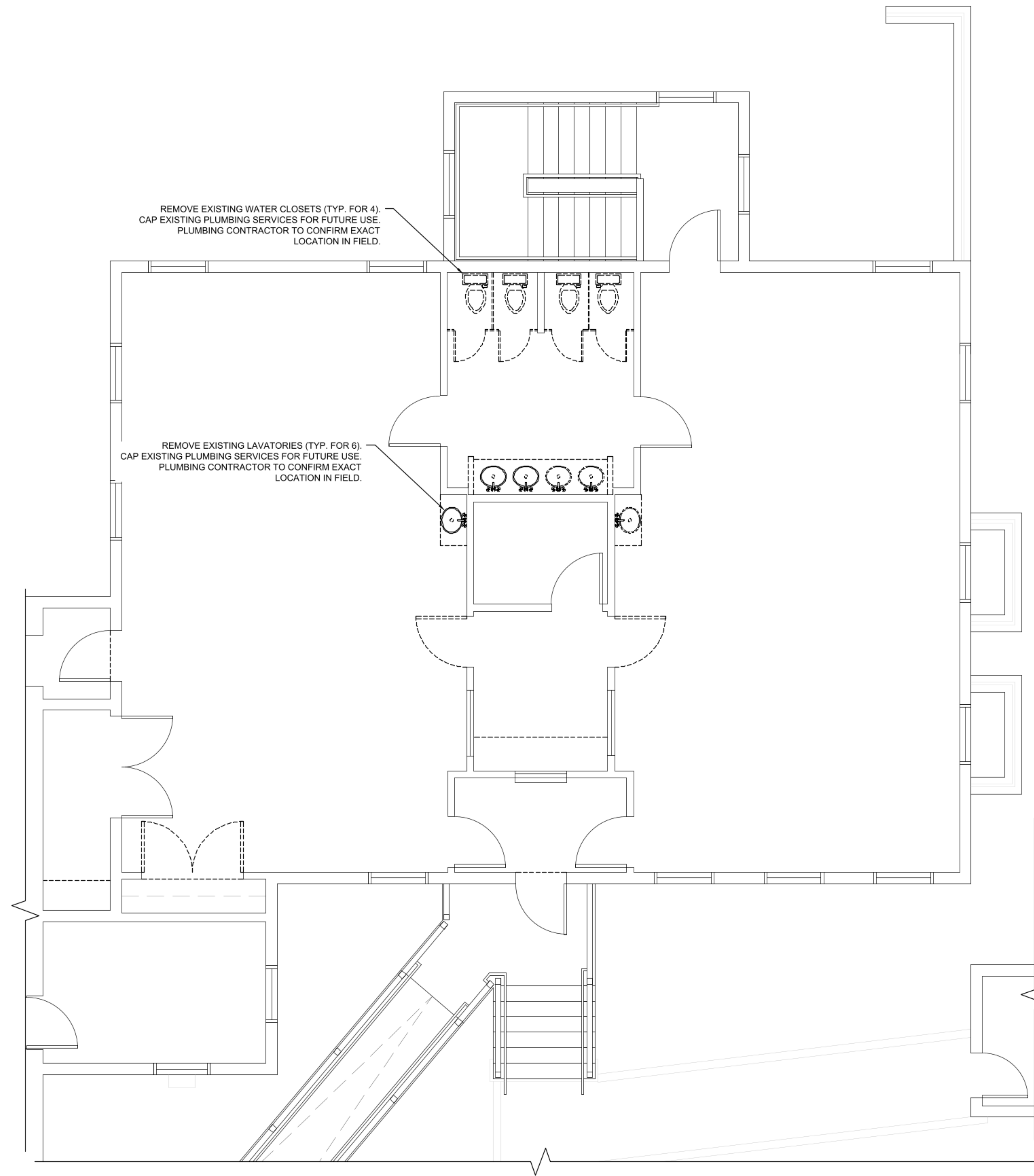
### NOTES:

- APPLY SILICON SEALANT WHERE FIXTURES MEET FLOORS AND WALLS.





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ADMINISTRATION BUILDING - TRADE DEMOLITION  
PART. FIRST FLOOR

1 1/4" = 1'-0"

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

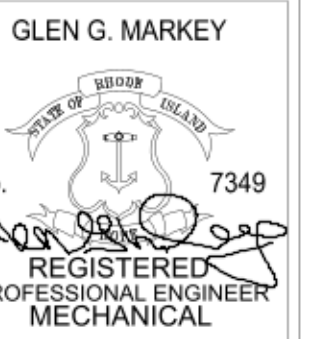
PROJECT #: 2123

DATE: 12/15/2023  
REVISED DATE:

SHEET CONTENTS:  
Plumbing -  
Administration Building  
Demolition Plan



Renovations for:  
**PHA Galego Court  
Administration Building  
& Building 200**  
483 Weeden Street  
Pawtucket, RI 02860

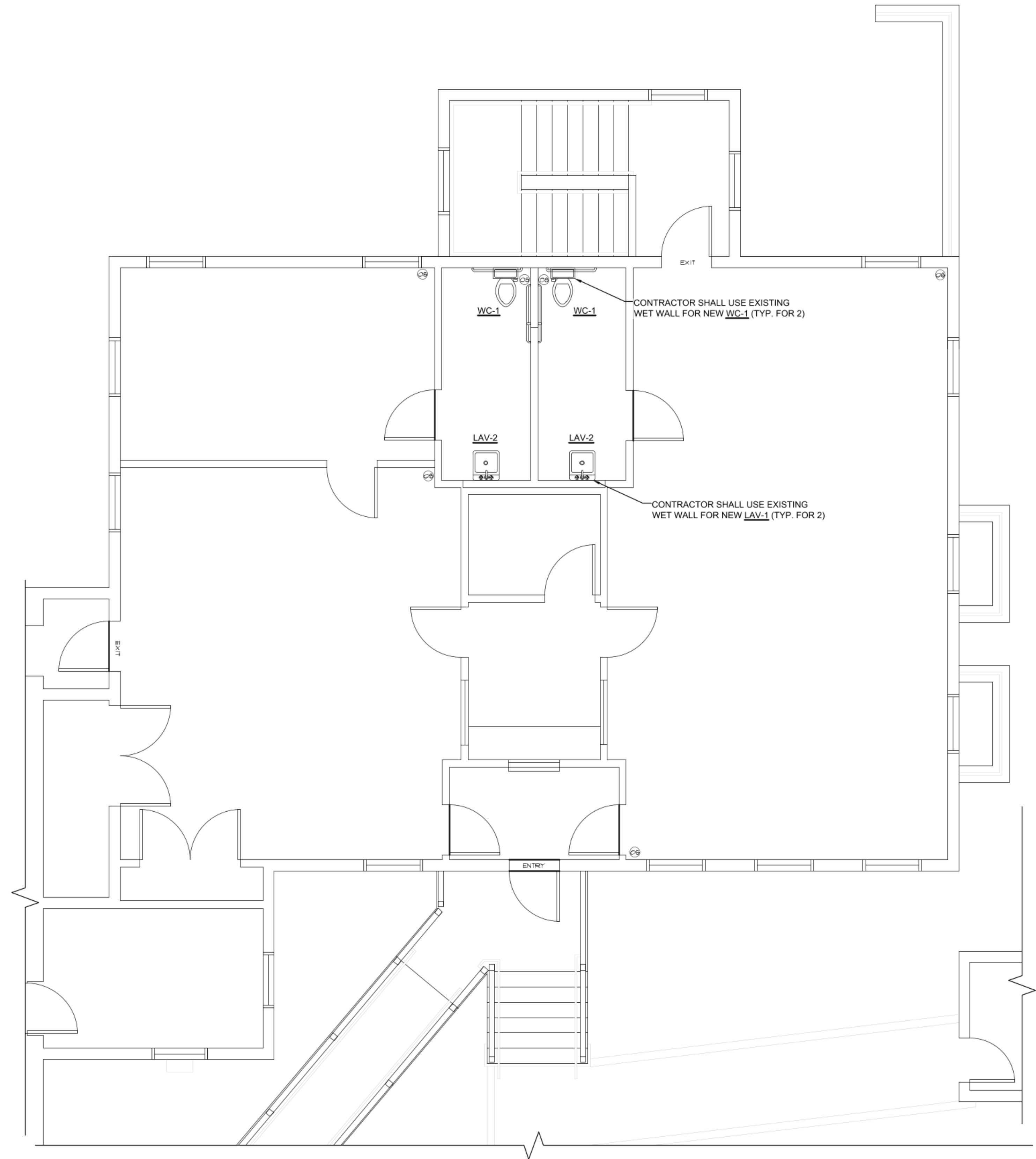


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**PD1.0**



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ADMINISTRATION BUILDING - PLUMBING FLOOR PLAN  
PART. FIRST FLOOR

1/4" = 1'-0"

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

PROJECT #: 2123

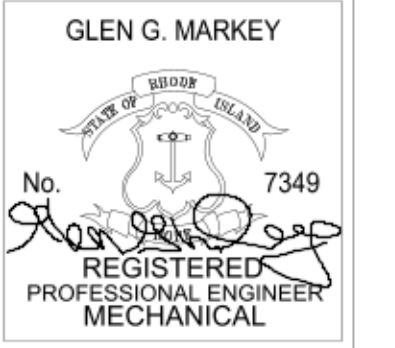
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REVISED DATE:

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SHEET CONTENTS:  
Plumbing -  
Administration Building  
Floor Plan



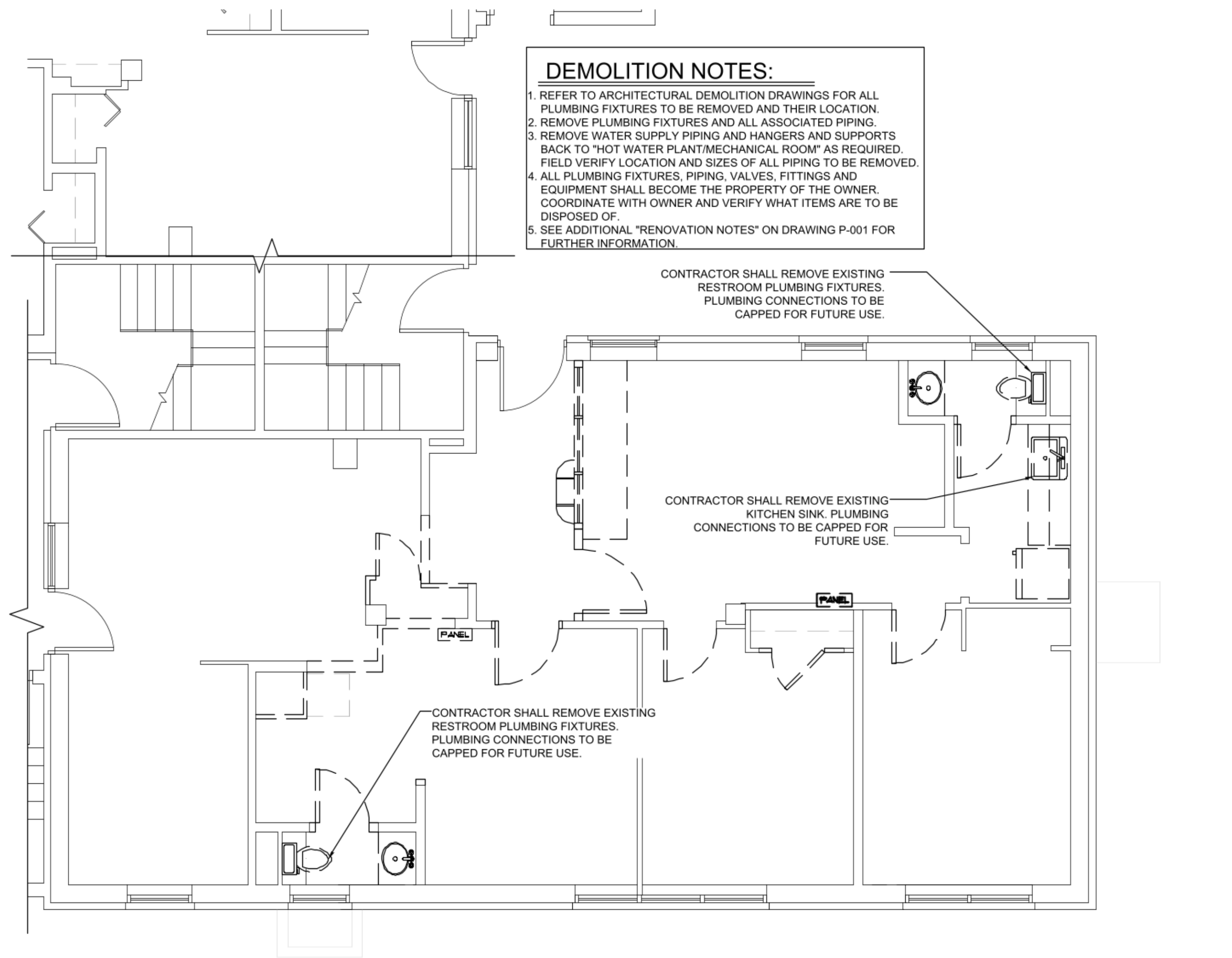
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483 Weeden Street  
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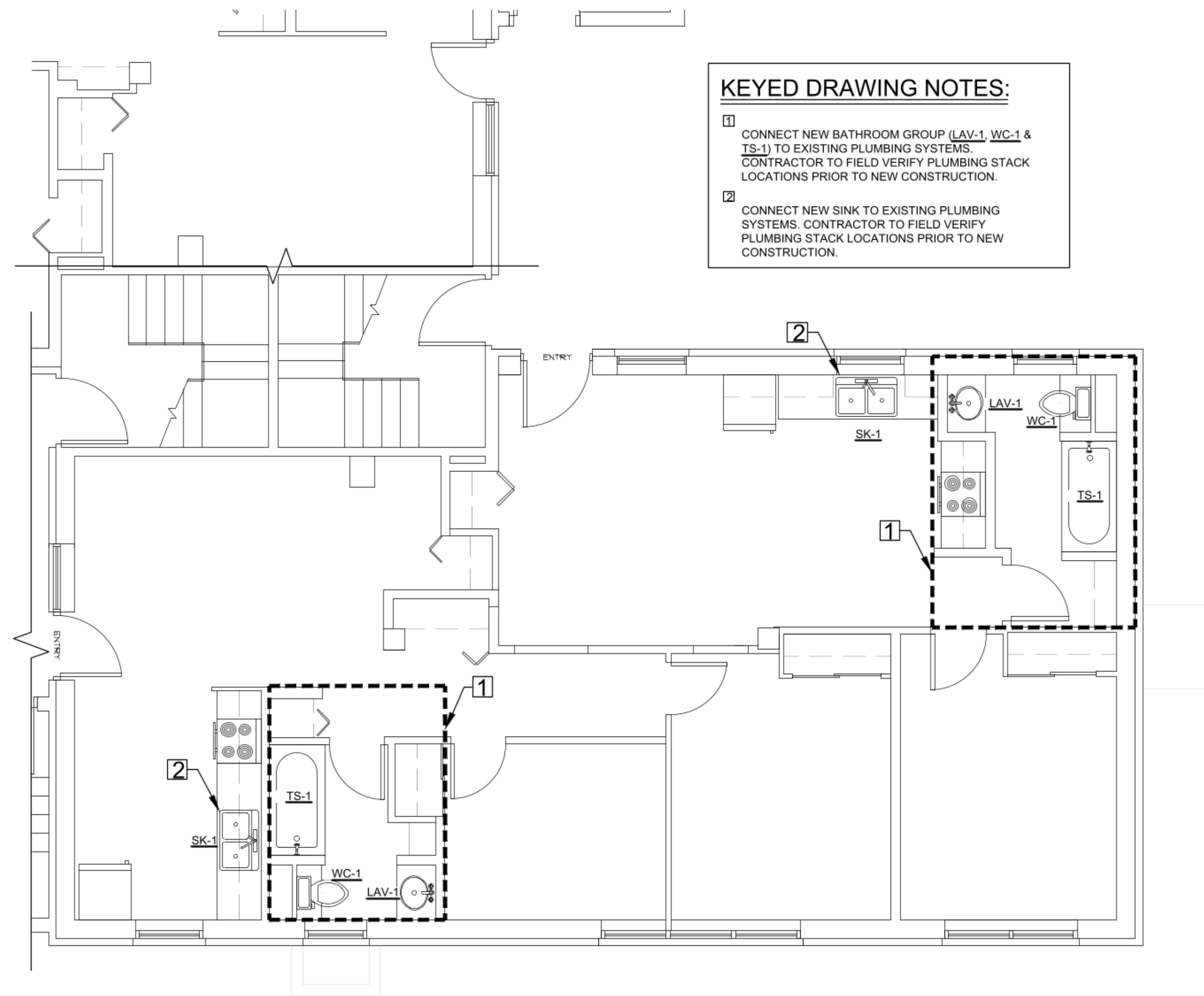


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**BUILDING 200 - PLUMBING DEMOLITION PLAN**  
PART, FIRST FLOOR

1 1/4" = 1'-0"



**BUILDING 200 - PLUMBING FLOOR PLAN**  
PART, FIRST FLOOR

2 1/4" = 1'-0"

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

SHEET CONTENTS:  
Plumbing -  
Building 200 Floor Plans

PROJECT #: 2123

DATE: 12/15/2023  
REVISED DATE:

Renovations for:  
**PHA Galego Court  
Administration Building  
& Building 200**  
483 Weeden Street  
Pawtucket, RI 02860



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**P1.1**



ABBREVIATIONS

GENERAL ABBREVIATIONS:

AAV	AUTOMATIC AIR VENT	L	LENGTH
ADD'L	ADDITIONAL	LAT	LEAVING AIR TEMPERATURE
AFF	ABOVE FINISHED FLOOR	LB	POUND
AMS	AIR FLOW MEASURING STATION	LF	LINEAR FEET
ALT	ALTITUDE OR ALTERNATE	LD	LINEAR DIFFUSER
AMP	AMPERE	LRA	LOCKED ROTOR AMPS
AP	ACCESS PANEL	LVD	LOUVERED DOOR
APD	AIR PRESSURE DROP	LVG	LEAVING
ARCH	ARCHITECT	LWT	LEAVING WATER TEMPERATURE
ATC	AUTOMATIC TEMP. CONTROL		
ATM	ATMOSPHERE	MAX	MAXIMUM
AVG	AVERAGE	MBH	THOUSAND BTH
		MCA	MINIMUM CIRCUIT AMPS
BDD	BACKDRAFT DAMPER	MD	MOTOR OPERATED DAMPER
BG	BLAST GATE DAMPER	MECH	MECHANICAL
BHP	BRAKE HORSEPOWER	MEZZ	MEZZANINE
BI	BACKWARDS INCLINED	MFR	MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
BMS	BUILDING MANAGEMENT SYSTEM	MUA	MAKE-UP AIR
BOD	BOTTOM OF DUCT		
BOP	BOTTOM OF PIPE	N/A	NOT APPLICABLE
BSMT	BASEMENT	NC	NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NC	NOISE CRITERIA
BTH	BTU PER HOUR	NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN
CA	COMPRESSED AIR	No	NUMBER
CDW	CONDENSER WATER	NOM	NOMINAL
CENT	CENTRIFUGAL	NTS	NOT TO SCALE
CF	CUBIC FEET		
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CL	CENTERLINE	OD	OUTSIDE DIAMETER
C.L.	COLUMN LINE	ODP	OPEN DRIP PROOF
CND	CONDENSATE	OED	OPEN END DUCT
CLG	CEILING OR COOLING	OV	OUTLET VELOCITY
C.O.	CLEAN-OUT		
CO	CARBON MONOXIDE	PD	PRESSURE DROP
CO2	CARBON DIOXIDE	PH	PHASE
COL	COLUMN	PHC	PREHEAT COIL
CONN	CONNECTION	PBG	PLUMBING
CONTR	CONTRACTOR	POS	PROVIDED BY OTHER SECTION
CV	CONSTANT VOLUME	PSI	POUNDS PER SQUARE INCH
		PSIA	PSI ABSOLUTE
		PSID	PSI DIFFERENTIAL
DB	DRY BULB TEMPERATURE	PSIG	PSI GAUGE
		PVC	POLYVINYL CHLORIDE
DEG	DEGREE DIRECT	PRV	PRESSURE REDUCING VALVE
DDC	DIGITAL CONTROL		
DIA	DIAMETER	QTY	QUANTITY
DIFF	DIFFUSER		
DIM	DIMENSION		
DN	DOWN	R	RADIUS
DP	DIFFERENTIAL PRESSURE	RA	RETURN AIR
DWDI	DOUBLE WIDTH DOUBLE INLET	REG	REGISTER
DX	DIRECT EXPANSION	RET	RETURN
		REQD	REQUIRED
EA	EACH OR EXHAUST AIR	RH	RELATIVE HUMIDITY
EAT	ENTERING AIR TEMPERATURE	RLA	RUNNING LOAD AMPS
ECH	ELECTRIC CABINET HEATER	RLL	REFRIGERANT LIQUID LINE
EFF	EFFICIENCY	RM	ROOM
ELEC	ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
ELEV	ELEVATION	RSL	REFRIGERANT SUCTION LINE
EMER	EMERGENCY		
EMS	ENERGY MANAGEMENT SYSTEM	SA	SUPPLY AIR
ENT	ENTER	SCH	SCHEDULE
ESP	EXTERNAL STATIC PRESSURE	SD	SMOKE DETECTOR
EWI	ENTERING WATER TEMPERATURE	SEN	SENSIBLE
EXH	EXHAUST	SHC	SENSIBLE HEAT CAPACITY
EXIST.	EXISTING	SP	STATIC PRESSURE
		SP	SPECIFICATIONS
F	FAHRENHEIT OR FAN	SQ	SQUARE
FA	FREE AREA	SF	SQUARE FEET
FD	FIRE DAMPER (ACCESS DOOR)	SS	STAINLESS STEEL
FLA	FULL LOAD AMPS	STL	STEEL
FLEX	FLEXIBLE	SUP	SUPPLY
FBM	FEET PER MINUTE	SWI	SINGLE WITH SINGLE INLET
FRG	FEET PER SECOND		
FRP	FIBERGLASS REINFORCED PLASTIC	T	TEMPERATURE
FS	FLOW SWITCH	TEL	TELEPHONE
FT	FEET	TEFC	TOT. ENCLOSED FAN COOLED
FTR	FINNED TUBE RADIATION	TEMP	TEMPERATURE
		TSTAT	THERMOSTAT
G	GAS	TOD	TOP OF DUCT
GAL	GALLONS	TON	12,000 BTH
GALV	GALVANIZED	TOP	TOP OF PIPE
GC	GENERAL CONTRACTOR	TOT	TOTAL
GPH	GALLONS PER HOUR	TSP	TOTAL STATIC PRESSURE
GPM	GALLONS PER MINUTE	TYP	TYPICAL
GWB	GYPSSUM WALL BOARD		
		V	VENT
HB	HOSE BIBB	VB	VACUUM BREAKER
HC	HEATING COIL	VD	VOLUME DAMPER
HEX	HEAT EXCHANGER	V	VOLTS (ELECTRICAL)
HGT	HEIGHT	VEL	VELOCITY
HP	HORSEPOWER		
HR	HOUR	W	WIDTH OR WATT
HTG	HEATING	W/	WITH
HW	HOT WATER	WB	WET BULB TEMPERATURE
HZ	HERTZ	WC	WATER COLUMN
		WG	WATER GAUGE
ID	INSIDE DIAMETER	WMS	WIRE MESH SCREEN
IN	INCHES	W/O	WITHOUT
		WPD	WATER PRESSURE DROP
KW	KILOWATT	WTD	WATER TEMPERATURE DIFF.

CONTROLS ABBREVIATIONS:

ACC	AUTOMATIC CONTROL DAMPER	LSPS	LOW STATIC PRESSURE SWITCH
ACV	AUTOMATIC CONTROL VALVE	LS	LEVEL SENSOR
AMS	AIR FLOW MEASURING STATION		
ALM	ALARM	MD	MOTORIZED DAMPER
ATC	AUTOMATIC TEMPERATURE CONTROL	NC	NORMALLY CLOSED (POWER LOSS)
ATS	AIR TEMPERATURE SENSOR	NO	NORMALLY OPEN (POWER LOSS)
		NO	NORMALLY OPEN (POWER LOSS)
BD	BACKDRAFT DAMPER	OAH	OUTSIDE AIR HUMIDITY SENSOR
BV	BYPASS VALVE	OAT	OUTSIDE AIR TEMP. SENSOR
		OH	RELATIVE HUMIDITY
CO2	CARBON DIOXIDE SENSOR	RH	RELATIVE HUMIDITY
CO	CARBON MONOXIDE SENSOR		
CV	CURRENT TRANSFORMER CONTROL VALVE	S	SWITCH
		SP	STATIC PRESSURE SENSOR
DDC	DIRECT DIGITAL CONTROL	SD	SMOKE DETECTOR
DPS	DIFFERENTIAL PRESSURE SWITCH	SPD	SPEED CONTROL
DPT	DIFFERENTIAL PRESSURE SENSOR	S/S	START/STOP
DPV	DIFF. PRESSURE BYPASS VALVE		
DSD	DUCT MOUNTED SMOKE DETECTOR	T	THERMOSTAT
DWDI	DOUBLE WIDTH DOUBLE INLET	TS	TEMPERATURE SENSOR
		TS	TEMPERATURE SENSOR
ES	END SWITCH	WTS	WATER TEMPERATURE SENSOR
FM	FLOW METER/TRANSMITTER		
FZ	FREEZE/STAT		
H	HUMIDISTAT		
HEPA	HIGH EFF. PARTICULATE AIR FILTER		
HGB	HOT GAS BYPASS		
HHL	HIGH HUMIDITY LIMIT SENSOR		
HDA	HANDS-OFF AUTOMATIC SWITCH		
HS	HUMIDITY SENSOR		
HZ	HERTZ		

EQUIPMENT ABBREVIATIONS:

AC	AIR CONDITIONING UNIT	GMS	GLYCOL MAKE-UP SYSTEM
ACU	AC CONDENSING UNIT	GUH	GAS FIRED UNIT HEATER
AHU	AIR HANDLING UNIT		
AS	AIR SEPARATOR	H	HUMIDIFIER
		HP	HEAT PUMP
B	BOILER	HPU	HP CONDENSING UNIT
BB	BASE BOARD	HV	HEATING & VENTILATING UNIT
BC	BRANCH CONTROLLER	HWC	HOT WATER COIL
BP	BOILER PUMP		
BT	BUFFER TANK	LV	LOUVER
CAC	CRITICAL COOLING AC UNIT	KEF	KITCHEN EXHAUST FAN
CC	COOLING COIL		
CCU	CC CONDENSING UNIT	MAU	MAKE-UP AIR UNIT
CEF	CEILING EXHAUST FAN	MCC	MOTOR CONTROL CENTER
CH	CHILLER	P	PUMP
CP	CIRCULATOR PUMP	PTAC	PACKAGED TERMINAL AC UNIT
CT	COOLING TOWER		
CUH	CABINET UNIT HEATER	R	RETURN GRILLE
CWC	CHILLED WATER COIL	REF	ROOF EXHAUST FAN
		RHP	RADIANT HEATING PANEL
DC	DRY COOLER	RTU	ROOF TOP UNIT
DEF	DISHWASHER EXHAUST FAN		
DSF	DESTRATIFICATION FAN	S	SUPPLY DIFFUSER
		SA	SOUND ATTENUATOR
E	EXHAUST GRILLE	SAC	SPLIT AC UNIT
EBB	ELECTRIC BASE BOARD	SHF	SPLIT HEAT PUMP
ECH	ELECTRIC CABINET HEATER	SF	SUPPLY FAN
EHC	ELECTRIC CEILING HEATER		
EF	EXHAUST FAN		
ERV	ENERGY RECOVERY VENTILATOR	T	TRANSFER GRILLE
ET	EXPANSION TANK		
EUH	ELECTRIC UNIT HEATER	UH	UNIT HEATER
		UV	UNIT VENTILATOR
F	FURNACE	VAV	VARIABLE AIR VOLUME BOX
FC	FAN COIL UNIT	VFD	VARIABLE FREQUENCY DRIVE
FPB	FAN POWERED VAV		
FT	FINTUBE	WSHP	WATER SOURCE HEAT PUMP

MECHANICAL SYMBOL LEGEND

AIR DEVICES	DUCTWORK	CONTROLS
4-WAY SUPPLY DIFFUSER	STANDARD SIZE REDUCTION	THERMOSTAT
3-WAY SUPPLY DIFFUSER	ASYMMETRICAL TRANSITION	TEMPERATURE SENSOR
2-WAY SUPPLY DIFFUSER	SQUARE-TO-ROUND TRANSITION	DUCT MOUNTED SMOKE DETECTOR
2-WAY CORNER SUPPLY DIFFUSER	STANDARD BRANCH TAKE-OFF	SQUARE ELBOW WITH TURNING VANES
1-WAY SUPPLY DIFFUSER	ROUND BRANCH TAKE-OFF	STANDARD RADIUS ELBOW (R=D)
RETURN REGISTER	STANDARD TEE	FIRE WRAPPED DUCTWORK
EXHAUST REGISTER	STANDARD TEE WITH TURNING VANES	ACOUSTICALLY LINED DUCTWORK
SIDE WALL SUPPLY DIFFUSER	SLOPED DUCT RISE	OPEN ENDED DUCT OUTLET
SIDE WALL RETURN OR EXHAUST GRILLE	FIRE DAMPER ACCESS DOOR	OPEN ENDED DUCT INTAKE
	GREASE DUCT ACCESS DOOR	OPEN ENDED DUCT OUTLET W/ SCREEN
		OPEN ENDED DUCT INTAKE W/ SCREEN
		DIFFUSER TAG
		EQUIPMENT TAG
		REVISION
		CONNECT NEW TO EXISTING

LEGEND NOTE:  
NOT ALL SYMBOLS ARE NECESSARILY USED. ABSENCE OF A SYMBOL ON THE DRAWINGS DOES NOT NECESSARILY MEAN IT IS NOT REQUIRED. REFER TO DETAILS & SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF WORK REQUIRED.

GENERAL CONSTRUCTION NOTES:

- ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL CODES AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- THIS CONTRACTOR, PRIOR TO SUBMITTING HIS BID, SHALL VISIT THE PROJECT SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED. THE CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY WORK SHOWN ON THE DRAWINGS. THE DRAWINGS REFLECT THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND SITE INVESTIGATIONS.
- THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW THE EXACT ROUTING OF SYSTEMS OR LOCATION OF COMPONENTS. THE EXACT LOCATIONS, DIMENSIONS AND ALL OTHER DETAILS OF EQUIPMENT ARE THE RESPONSIBILITY OF THIS CONTRACTOR. THIS CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE. PROVIDE ALL DUCT AND PIPE TRANSITIONS REQUIRED FOR CONNECTION TO EQUIPMENT.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
- ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA.
- CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
- ALL OPENINGS IN WALLS SHALL BE KEPT PROPERLY SEALED AT ALL TIMES, EXCEPT WHEN BEING WORKED ON TO PRECLUDE THE POSSIBILITY OF FLOODING DUE TO STORM OR OTHER CAUSES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT, AND ENVIRONMENTAL CONDITIONS.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK. ALL OFFSETS IN PIPING AND DUCTS TO AVOID OBSTRUCTIONS SHALL BE PROVIDED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL REFER TO THE COMPLETE SET OF CONTRACT DOCUMENTS INCLUDING SPECIFICATIONS AND OTHER TRADES FOR A FULL UNDERSTANDING OF ALL WORK REQUIRED.
- WHERE USED THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- PROVIDE ALL REQUIRED RIGGING TO ACCOMMODATE THE REMOVAL & INSTALLATION OF ALL EQUIPMENT.
- PROVIDE ACCESS PANELS FOR ALL CONCEALED DAMPERS, VALVES, AND EQUIPMENT.
- ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF REGISTERS, DIFFUSERS, AND GRILLES.
- CONTRACTOR SHALL SPRAY PAINT INSIDE OF DUCT BLACK, BEHIND ALL GRILLES AND REGISTERS.
- ALL DUCTWORK AND PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT AND WORKMANLIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. DUCTWORK AND PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.
- IF A SECTION OF DUCT OR PIPE IS NOT LABELED FOR SIZE, THEN THE LARGER SIZE INDICATED ON THE DRAWINGS SHALL PREVAIL. SIZE OF DUCT RUN-OUTS TO DIFFUSERS SHALL EQUAL DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
- PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
- PROVIDE CONDENSATE PUMPS THROUGHOUT CONDENSATE DRAINAGE SYSTEM AS REQUIRED TO PROPERLY REMOVE CONDENSATE. PROVIDE A PER PUMP LINE-ITEM ALLOWANCE.
- REFRIGERANT PIPE SIZING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. LENGTH OF PIPE, ELEVATION CHANGE AND EQUIPMENT ORIENTATION SHALL BE TAKEN INTO ACCOUNT.
- SUCCESSFULLY PRESSURE TEST ALL REROUTED PIPING SYSTEMS. TEST SHALL BE PERFORMED AT TWICE SYSTEM OPERATING PRESSURES. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS PROVE TIGHT.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 10' FROM THE ROOF EDGE. EQUIPMENT INSTALLED CLOSER THAN 10' SHALL REQUIRE THE INSTALLATION OF GUARD RAILS.
- ALL CONCEALED ELECTRICAL CONNECTIONS SHALL BE HARD WIRED. PLUGS SHALL NOT BE USED AS A DISCONNECTING MEANS IN CONCEALED LOCATIONS.
- CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROLS INCLUDING WIRING, TUBING, AND THERMOSTATS (WITH LOCKING COVERS) AND ALL MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS.
- DUCT SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR. INSTALLED IN THE DUCTWORK BY MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
- ALL FRESH AIR INTAKES & DIRECT VENTS SHALL TERMINATE AT LEAST 10' HORIZONTALLY FROM ANY GAS METERS.
- ALL THERMOSTATS, CONTROL SWITCHES, ETC. SHALL BE INSTALLED 48" AFF.

GENERAL RENOVATION NOTES:

- ALL SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK.
- NO DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED, OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL, OR DISCONNECTION, 1 WEEK NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD.
- USE OF THE OWNER'S ELEVATORS AND BUILDING CORRIDORS FOR HANDLING OF THE OWNER'S AND REMOVED EQUIPMENT AND MATERIALS SHALL BE AT THE DIRECTION OF THE OWNER AND SHALL BE COORDINATED WITH HIS OPERATIONS.
- ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS PER OWNER'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE. ALL ITEMS WHICH ARE NOT TO BE STORED ON SITE BY OWNERS SHALL BE REMOVED FROM THE BUILDING IMMEDIATELY.
- DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, FLUES, REGISTERS, SUPPORTS, HANGERS, AND ALL OTHER MECHANICAL COMPONENTS MADE OBSOLETE BY THIS PROJECT.
- PRIOR TO RENOVATION, CONTRACTOR TO RECORD ALL SUPPLY & RETURN MAIN AIRFLOWS & SUBMIT A COPY TO THE ENGINEER. ALL READINGS SHALL BE PERFORMED BY A CERTIFIED NEBB CONTRACTOR. COMPARE NEW EQUIPMENT VALUES & ALERT DISCREPANCIES FOR ENGINEER FEEDBACK. AT THE END OF THE PROJECT EXISTING SYSTEMS SHALL BE BALANCED TO PRE-CONSTRUCTION VALUES OR ADJUSTED VALUES BASED ON PRE-CONSTRUCTION TESTING ENGINEERING FEEDBACK.
- ALL NEW, RELOCATED, OR EXISTING EQUIPMENT AFFECTED BY THIS SCOPE OF WORK SHALL BE REBALANCED BEFORE BEING PLACED IN SERVICE.
- PROVIDE ALL REQUIRED CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE INSTALLATION OF NEW MECHANICAL SYSTEM. PATCH ALL SURFACES TO MATCH AND MAINTAIN ALL FIRE RATINGS.
- EXISTING ROOF CUTTING, FLASHING, SEALING, ETC. TO BE ACCOMPLISHED BY A ROOFING CONTRACTOR APPROVED BY THE EXISTING ROOF MANUFACTURER AND INSTALLED IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS SO AS NOT TO VOID ROOF WARRANTY.
- EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS SUCH ON THE DRAWINGS. ALL MATERIALS AND EQUIPMENT LISTED AS NEW MUST BE NEW.
- THE FIRE PROOFING OF THE EXISTING STRUCTURE IS NOT TO BE REMOVED FOR THE INSTALLATION OF HANGERS, SUPPORTS AND DUCTWORK ETC. IF FIRE PROOFING IS DAMAGED, IT SHALL BE REPAIRED AT THE EXPENSE OF THE TRADE.

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
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Renovations for:  
**PHA Galego Court  
Administration Building  
& Building 200**  
483 Weeden Street  
Pawtucket, RI 02860



SHEET CONTENTS:  
Mechanical -  
Legends & Notes

PROJECT #: 2123  
DATE: 12/15/2023  
REVISED DATE:

**MO.0**

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

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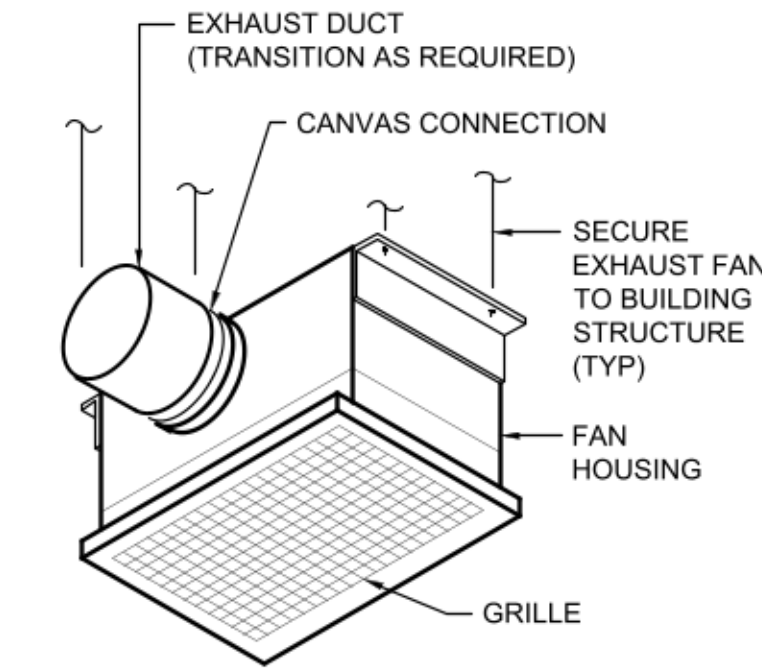
AIR DEVICE SCHEDULE (BASED ON PRICE)						
SYMBOL	MODEL	TYPE	NECK	CFM RANGE	MODULE SIZE	NOTES
S-1	SMD	LAYIN	6x6	50 - 125	12x12	
R-1	630	LAYIN	10x10	196 - 300	24x24	1,2,3

NOTES:  
 1. CONTRACTOR TO PROVIDE SQUARE TO ROUND TRANSITIONS.  
 2. DUCT RUN-OUTS TO MATCH NECK SIZE UNLESS OTHERWISE NOTED.  
 3. 45° DEFLECTION, 3/4" SPACING.

\* - S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER  
 \*\* - SIZE  
 \*\*\* - CFM

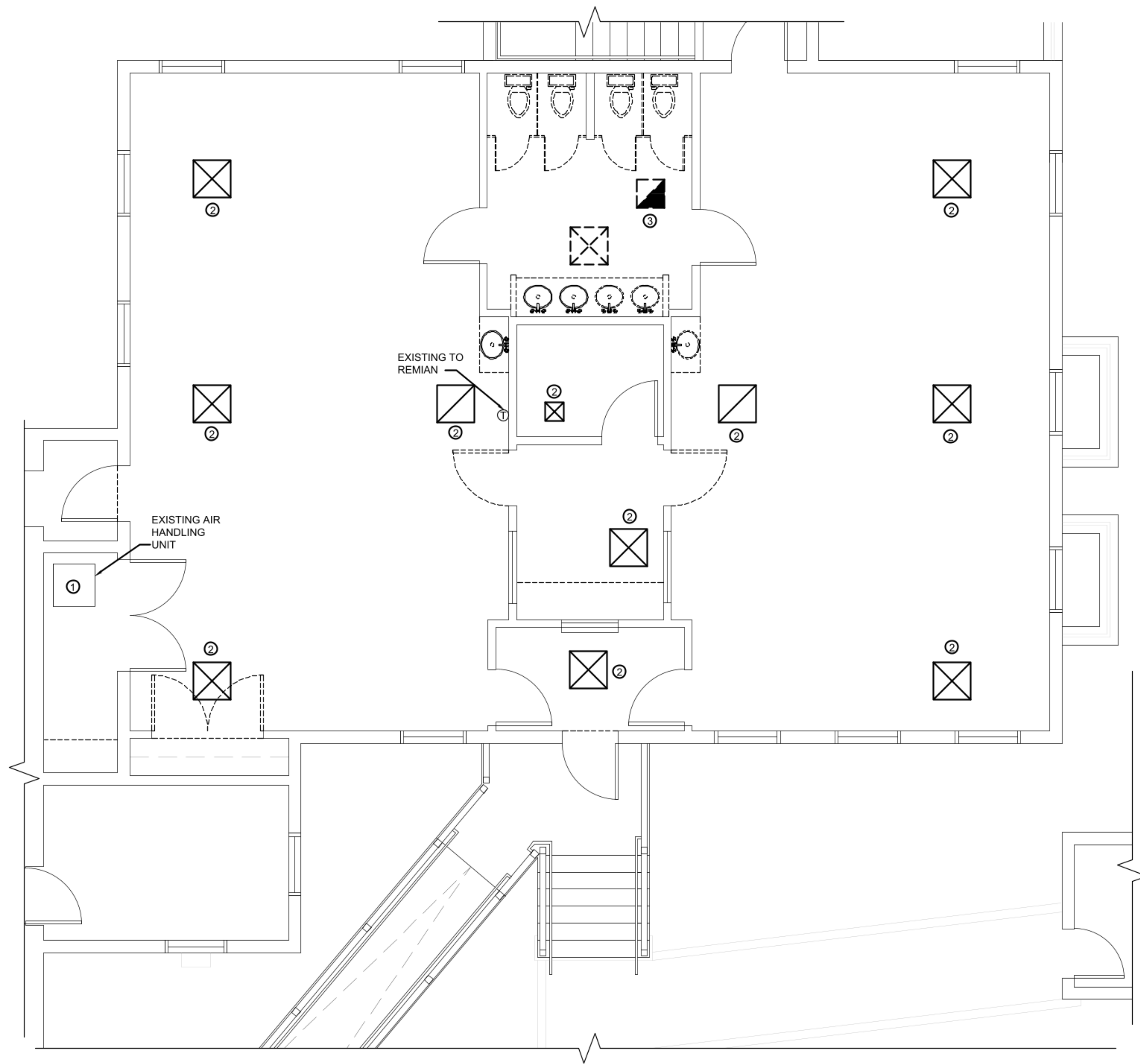
EXHAUST FAN SCHEDULE (BASED ON GREENHECK)												
SYMBOL	MODEL	TYPE	DRIVE	CFM	ESP (IN)	FAN RPM	MOTOR DATA				APPROX. WEIGHT (LBS)	NOTES
							HP	MCA	MOP	VOLTAGE		
CEF-1	SP-A390-VG	CEILING	DIRECT	75	.5	1179	30W	1.5		120	24	1,2

NOTES:  
 1. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.  
 2. FANS TO BE INTERCONNECTED WITH LIGHT SWITCH.

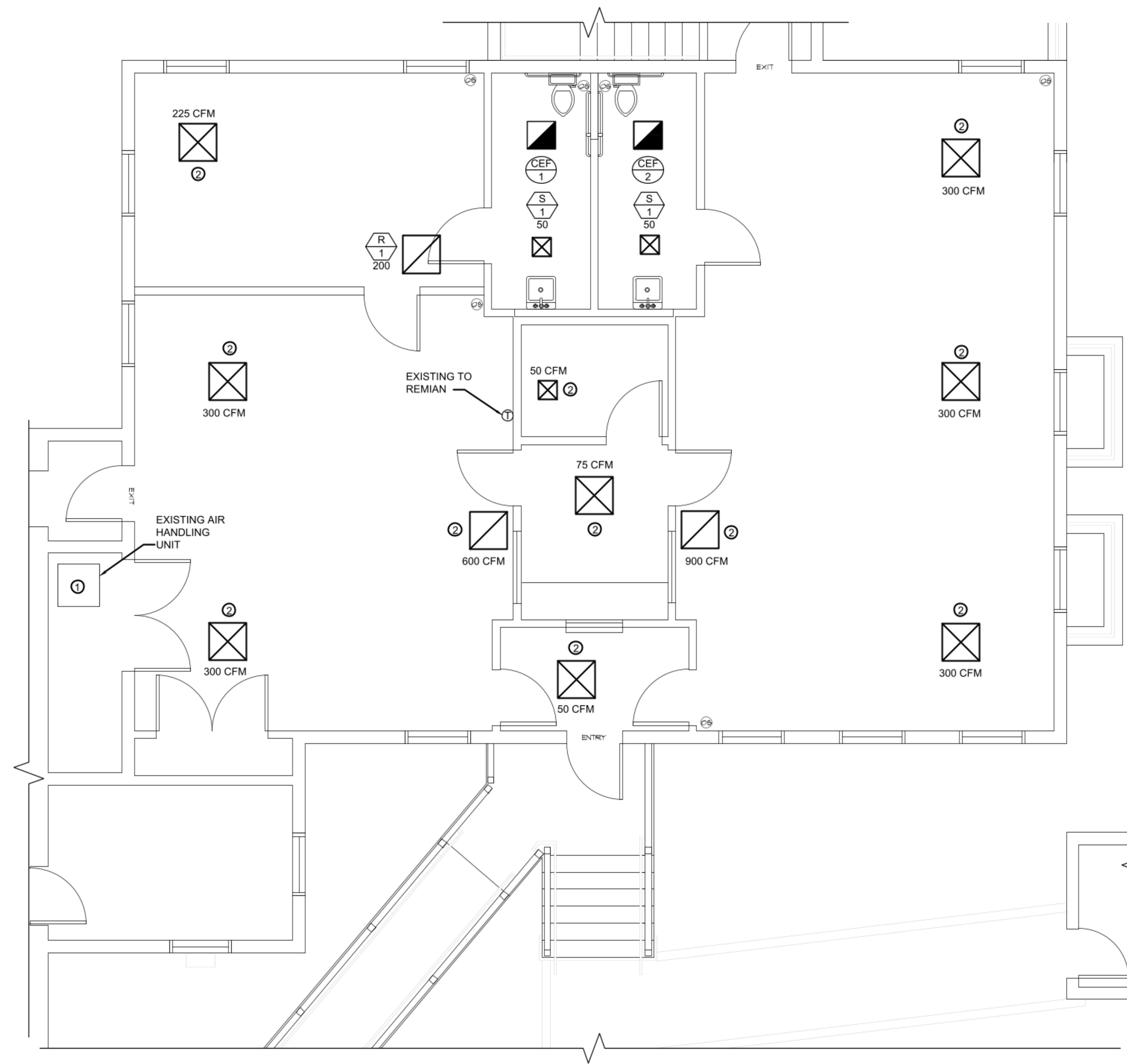


CEILING EXHAUST FAN DETAIL  
NO SCALE

- MECHANICAL NOTES:**
- PROVIDE A PRE-BALANCE ON EXISTING AHU & RGD'S PRIOR TO THE START OF CONSTRUCTION.
- KEYED MECHANICAL NOTES:**
- EXISTING 5-TON AIR HANDLING UNIT TO REMAIN. PROVIDE SERVICE COST FOR REPLACING FILTERS, CLEAN COIL, CHECK BETS, CALIBRATE THERMOSTAT.
  - EXISTING DIFFUSERS & REGISTERS TO REMAIN. REMOVED, CLEANED & RELOCATED AS SHOWN RE-BALANCE TO CFM AIR QUANTITIES LISTED.
  - REMOVE EXISTING BATHROOM EXHAUST. EXISTING DUCTWORK TO REMAIN AND BE REUSED.



ADMINISTRATION BUILDING - MECHANICAL DEMOLITION ① 1/4" = 1'-0"  
PART, FIRST FLOOR



ADMINISTRATION BUILDING - MECHANICAL FLOOR PLAN ① 1/4" = 1'-0"  
PART, FIRST FLOOR

**Ed Wojcik** architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

WILLIAM T. MAYER III  
 No. 7860  
 REGISTERED PROFESSIONAL ENGINEER MECHANICAL

Renovations for:  
**PHA Galego Court  
 Administration Building  
 & Building 200**  
 483 Weeden Street  
 Pawtucket, RI 02860

**ENGINEERING DESIGN SERVICES**  
 INCORPORATED  
 483 WEEDEN STREET  
 PAWTUCKET, RI 02860

SHEET CONTENTS:  
 Mechanical -  
 Administration Building  
 Demolition  
 & Floor Plan

PROJECT #: 2123

DATE: 12/15/2023  
 REVISED DATE:

**M1.0**

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

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**BASEBOARD SCHEDULE** (BASED ON STERLING)

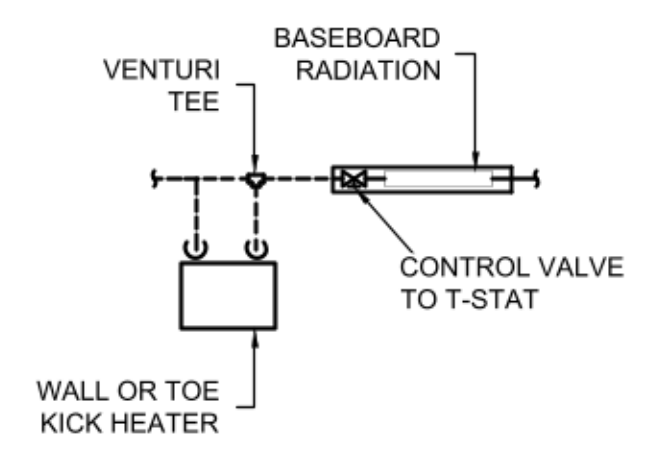
SYMBOL	MODEL	BTU/HR/FT	TUBE	FIN	FIN/FT	ROWS	AWT 'F	NOTES
FT-1	JVK-S8	660	3/4"	2 1/2" x 2 1/4"	60	1	140	1,2,3

NOTES:  
 1. PROVIDE ELEMENT COVERS AS INDICATED ON PLANS ALLOWING VALVES, FITTINGS.  
 2. PROVIDE WALL MOUNTED TEMPERATURE SENSOR.  
 3. PROVIDE 16 GAUGE FRONT PANEL.

**KICK SPACE HEATER SCHEDULE** (BASED ON SLANT FIN)

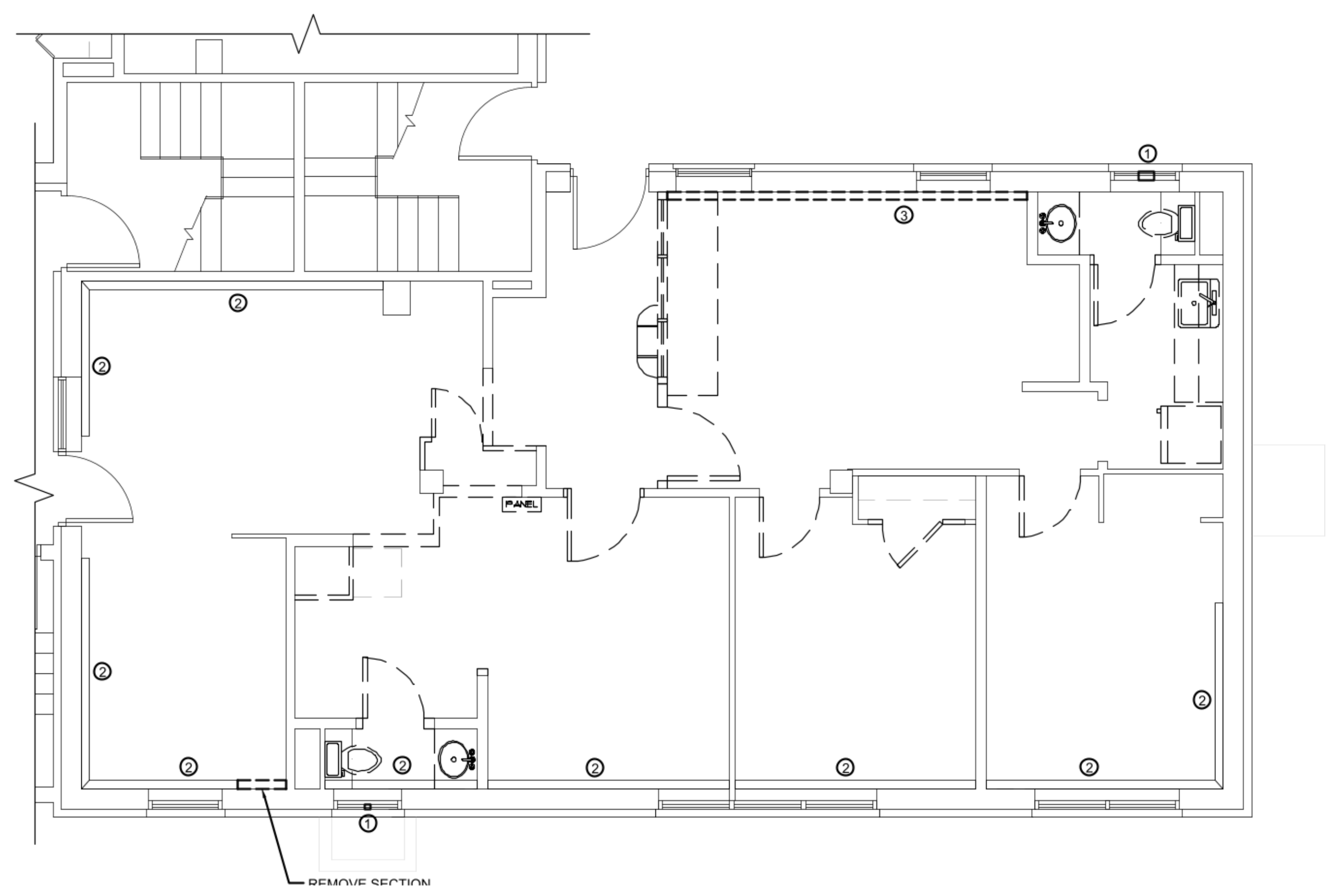
SYMBOL	MODEL	CFM	GPM	WPD	MBH	ELECTRICAL DATA		NOTES
						FLA	VOLTAGE	
KSH-1	TK-70	60	1.0	0.3	3.3	0.6	120/1/60	1,2,3
KSH-2	TK-70	60	1.0	0.3	3.3	0.6	120/1/60	1,2,3

NOTES:  
 1. PROVIDE WITH DISCONNECT. REFER TO PLANS FOR RATINGS & COORDINATE WITH E.C.  
 2. PROVIDE WITH WATER TEMPERATURE SENSOR & 2-SPEED BLOWER WITH MANUAL SWITCH.  
 3. HEATER SHALL BE PIPED IN SERIES WITH FT. PROVIDE BYPASS & ISOLATION VALVES.



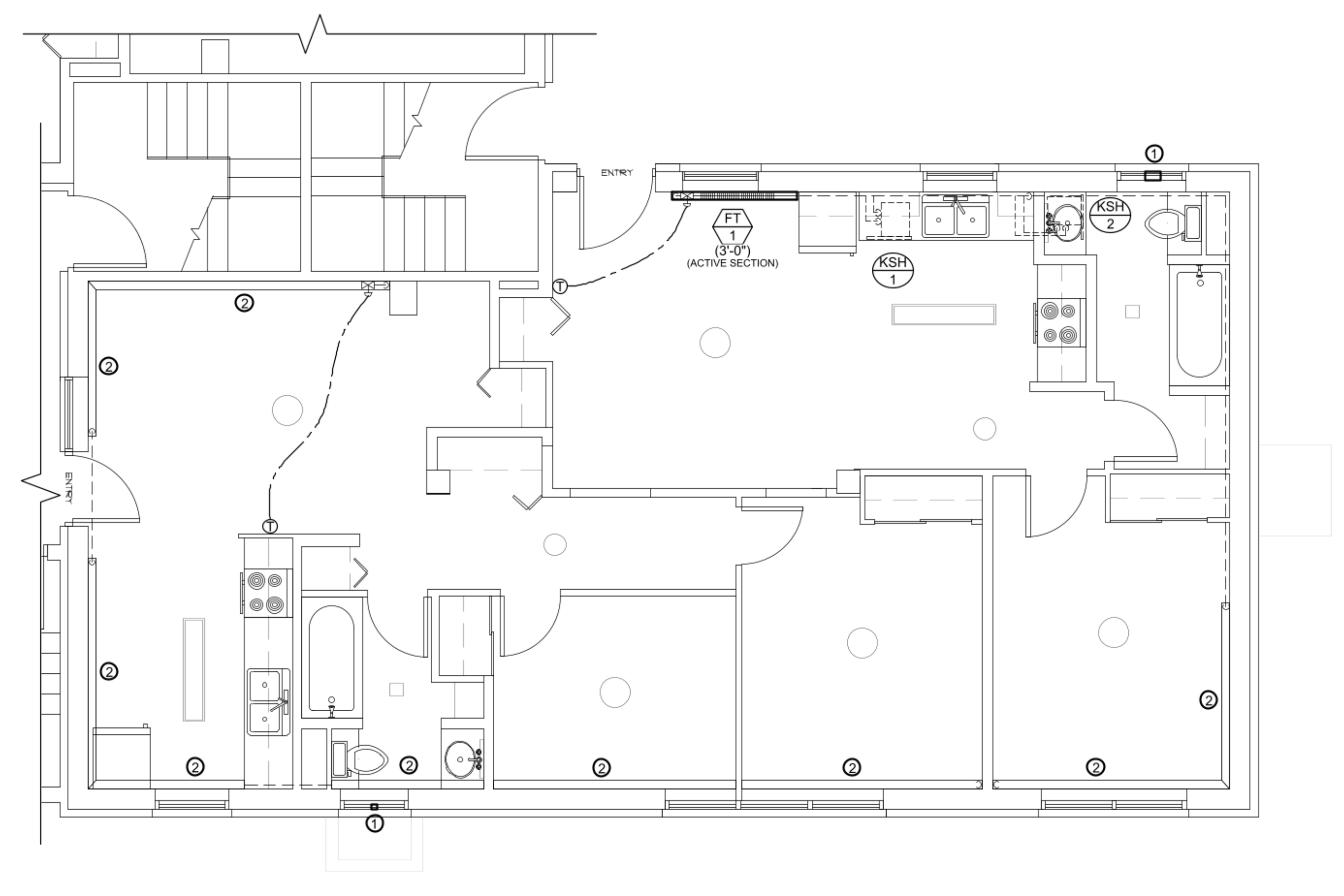
**HEATER PIPING DETAIL**  
NTS

**KEYED MECHANICAL NOTES:**  
 ① EXISTING SIDEWALL BATHROOM EXHAUST FANS TO REMAIN. CLEAN, CHECK OPERATIONS, REPLACE IN KIND IF NOT OPERATIONAL.  
 ② EXISTING BASEBOARD RADIATION TO REMAIN. PROVIDE NEW ZONE CONTROL VALVES.  
 ③ REMOVE EXISTING BASEBOARD, REPLACE WITH NEW. PROVIDE NEW ZONE CONTROL VALVE.



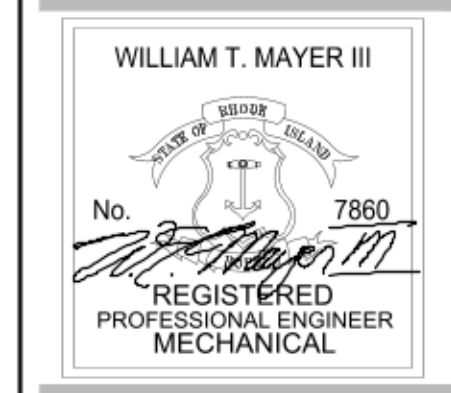
**BUILDING 200 - DEMOLITION**  
PART, FIRST FLOOR

① 1/8" = 1'-0"



**BUILDING 200 - PROPOSED**  
PART, FIRST FLOOR

② 1/8" = 1'-0"



Renovations for:  
**PHA Galego Court**  
**Administration Building**  
**& Building 200**  
 483 Weeden Street  
 Pawtucket, RI 02860



SHEET CONTENTS:  
 Mechanical -  
 Building 200 Floor Plans

PROJECT #: 2123

DATE: 12/15/2023  
 REVISED DATE:

**M1.1**

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

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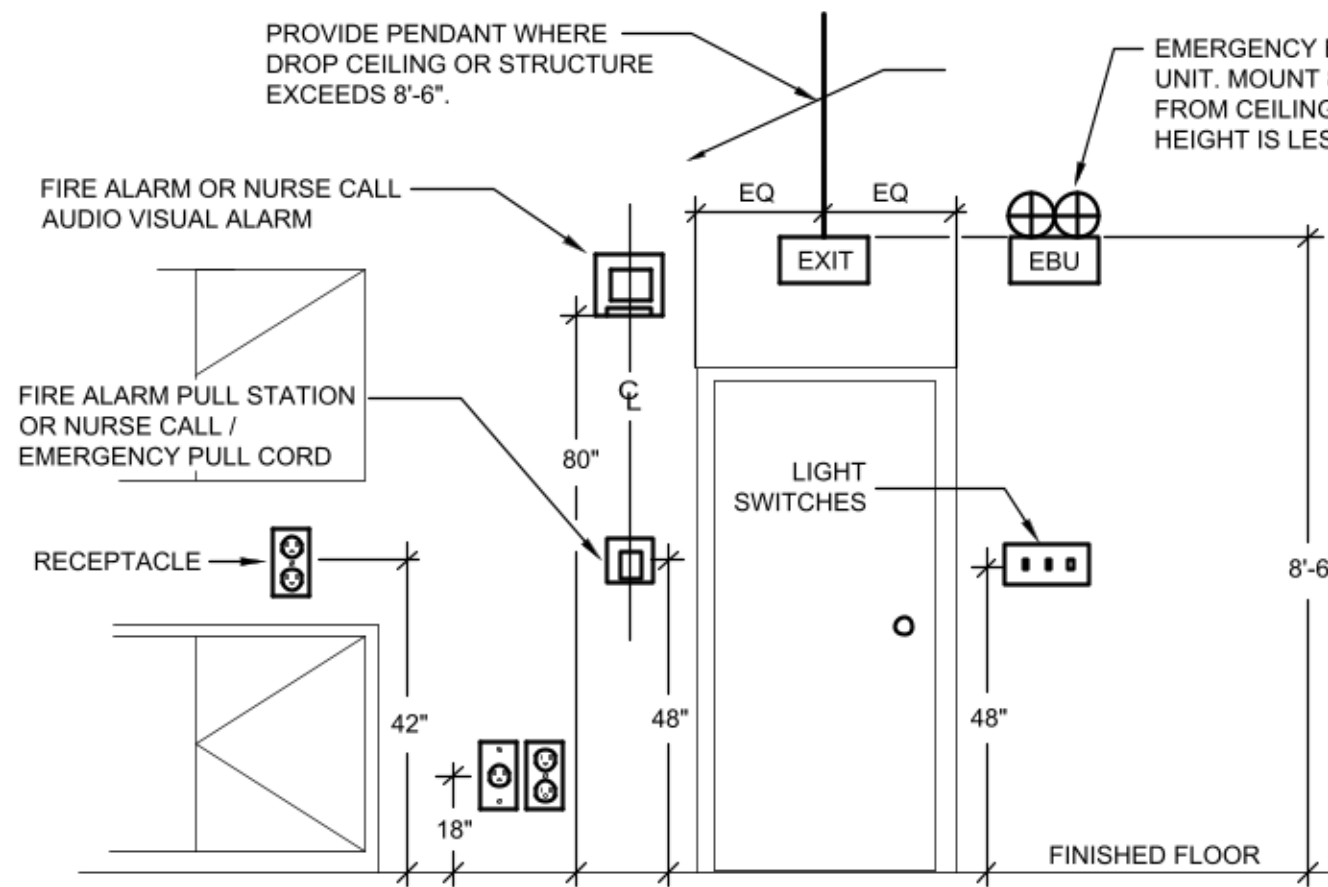
### COORDINATION NOTES

CONTRACTOR SHALL PROVIDE A SET OF COORDINATION DRAWINGS WITH ALL TRADES EQUIPMENT LOCATED, INDICATING ANY ALL CONFLICTS WITH THE CURRENT ELECTRICAL DESIGN PRIOR TO THE START OF ANY WORK. THESE PLANS SHALL INCLUDE ARCHITECTURAL ELEVATION & DETAIL DRAWINGS WITH PROPOSED ELECTRICAL EQUIPMENT LOCATED FOR REVIEW AND APPROVAL. ANY COORDINATION ISSUES WITH EQUIPMENT, PRIOR TO THESE PLANS BEING APPROVED SHALL BE REPAIRED AT THIS CONTRACTOR'S EXPENSE.

ALL LOCATIONS & MOUNTING HEIGHTS OF ELECTRICAL DEVICES (LIGHTING, RECEPTACLES, FIRE ALARM, LIFE SAFETY DEVICES, ETC.) SHALL BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO ANY INSTALLATION. ANY DEVIATION FROM THIS REQUIREMENT RESULTING IN AN INCORRECT INSTALLATION OR LOCATION SHALL BE REPAIRED BY THIS CONTRACTOR AT THEIR OWN EXPENSE.

### TYPICAL FIRE STOPPING NOTES

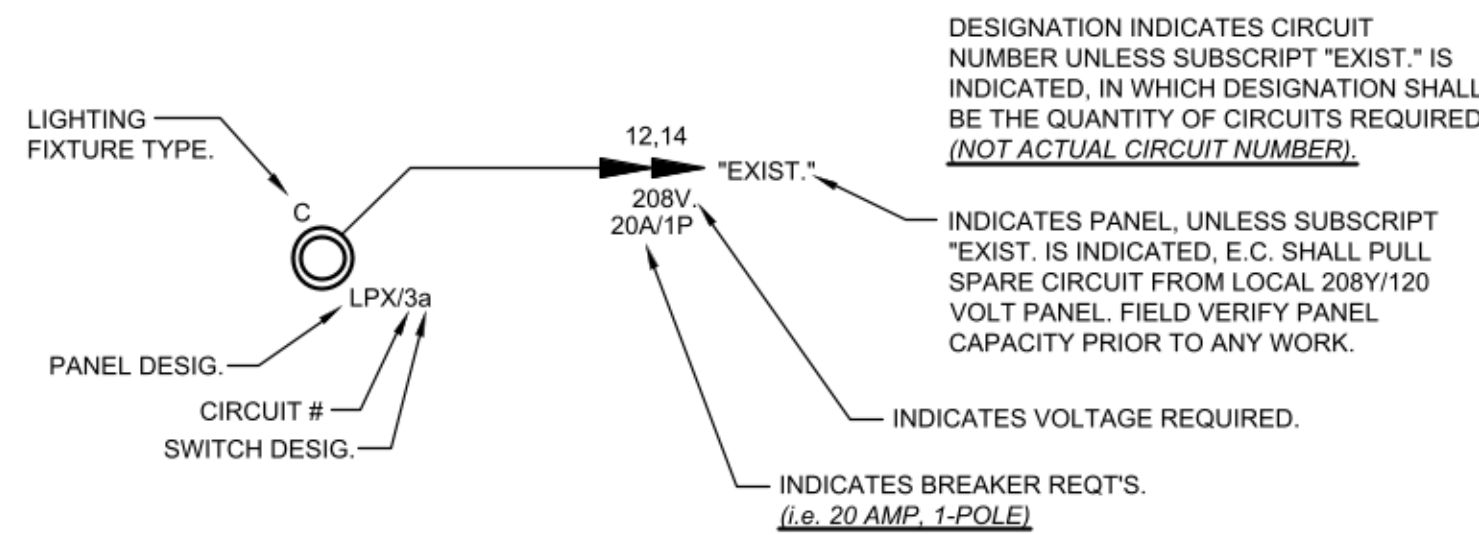
- A. GENERAL:** FIRE STOPPING SHALL BE PROVIDED BY THIS CONTRACTOR FOR ALL FLOOR, CEILING AND FIRE RATED WALL PENETRATIONS FOR CONDUIT, SLEEVES AND/OR CABLING AS REQUIRED BY JOB CONDITIONS.
- B. THE CONTRACTOR SHALL PROVIDE A FIRE STOP SYSTEM IN ACCORDANCE WITH THE FOLLOWING:**
- THE SYSTEM SHALL CONSIST OF A WATERBASED SEALANT AND SUITABLE DAMMING MATERIALS (WHERE REQUIRED) AND BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
  - THE SEALANT SUPPLIED SHALL BE A TWO STAGED INTUMESCENT AND CAPABLE OF EXPANDING UP TO 8 TIMES ITS ORIGINAL VOLUME.
  - THE SEALANT SUPPLIED SHALL CONTAIN NO ASBESTOS, NO FIBERGLASS, AND NO SOLVENTS NOT CORROSIVE MINERAL SALTS OF ANY KIND.
  - THE SEALANT SHALL FORM A SURFACE CAPABLE OF BEING SANDED AND PAINTED TO MATCH SURROUNDING SURFACES AND SHALL BE IMPERVIOUS TO WATER WHEN DRY.
  - THE FIRE STOP SYSTEM SHALL BE TESTED TO THE TIME/TEMPERATURE REQUIREMENTS OF ASTM E119 AND SHALL BE UL1479 (ASTM E814) AND CLASSIFIED FOR UP TO 3 HOURS.
  - THE FIRE STOP SEALANT SHALL BE SPECSEAL SEALANT AS MANUFACTURED BY SPECIFIED TECHNOLOGIES, INC. OR APPROVED EQUAL.
  - SPECIAL CARE SHALL BE TAKEN WITH ELECTRICAL SYSTEMS NOT TO COMPROMISE ANY OF THE BUILDING FIRE PARTITIONS, FLOORS, WALLS OR MEMBRANES. PROVIDE ALL FIRE STOPPING REQUIRED TO COMPLY WITH THE BUILDING CODE, THE ELECTRICAL CODE AND THE UL LISTING OF EACH ASSEMBLY. COORDINATE LOCATIONS AND TYPES OF MEMBRANES WITH ARCHITECT.



**NOTE:**  
THIS DETAIL INDICATES CENTERLINE FOR FIRE ALARM/PULL STATION SWITCHES AND RECEPTACLES. HOWEVER THIS SAME CENTERLINE PRINCIPLE SHALL BE FOR ALL GROUP MTD. ELECTRICAL DEVICES. IF FIRE ALARM IS ON SAME SIDE OF DOOR AS SWITCHES, PULL STATION SHALL BE HORIZONTALLY SEPARATED BY A MINIMUM OF 18". THIS ELEVATION IS A GENERAL ARRANGEMENT OF DEVICES. ARCHITECT PLANS TAKE PRECEDENCE FOR EXACT LOCATIONS.

### MOUNTING HEIGHT DETAIL

NOT TO SCALE



- NOTES:**
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT ON PLANS, AND VICE VERSA, SHALL APPLY OR SHALL BE PROVIDED AS THOUGH EXPRESSLY REQUIRED ON BOTH. IT IS NOT INTENDED THAT EVERY JUNCTION BOX, OFFSET, FITTING OR COMPONENT BE SPECIFIED OR SHOWN ON DRAWINGS; HOWEVER, CONTRACT DOCUMENTS REQUIRE PROVISION OF ALL COMPONENTS AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION, WHETHER OR NOT INDICATED OR SPECIFIED.
  - BRANCH CIRCUIT WIRING MAY NOT BE GRAPHICALLY SHOWN ON DRAWINGS AND MAY BE SHOWN BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT SHOWN GRAPHICALLY. WIRING IS SHOWN BY CONDUIT RUNS ON DRAWINGS WHERE SPECIFIC ROUTING IS REQUIRED OR FOR OTHER SPECIAL REASONS. ONLY ROOMS WITH MULTIPLE SWITCHING HAVE "SWITCH CONTROL LETTERS" ASSIGNED. PROVIDE THIN CONDUCTORS IN AREAS WITH HIGH AMBIENT TEMPERATURES SUCH AS BOILER ROOMS, INCINERATOR ROOMS, MECHANICAL EQUIPMENT ROOMS ETC., FOR SIZES LARGER THAN NO. 10 AWG.

### TYPICAL CIRCUITING DETAIL

NOT TO SCALE

### LIGHTING CONTROL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
SM	MANUAL MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.	48" A.F.F.
Sa	SINGLE POLE SWITCH; "a" INDICATES LIGHT FIXTURES CONTROLLED.	48" A.F.F.
S3a	THREE-WAY SWITCH; "a" INDICATES LIGHT FIXTURES CONTROLLED.	48" A.F.F.
SDa	SINGLE POLE DIMMER SWITCH; "a" INDICATES LIGHTING FIXTURES CONTROLLED.	48" A.F.F.
SD3a	THREE-WAY DIMMER SWITCH; "a" INDICATES LIGHTING FIXTURES CONTROLLED.	48" A.F.F.
(WS)	WALL SWITCH VACANCY SENSOR (MANUAL "ON" AND AUTOMATIC "OFF") MFR: nLIGHT CONTROLS #nWSX-PDT-LV. INSTALL PER MANUFACTURERS INSTRUCTIONS.	48" A.F.F.
(WSD)	DIMMABLE WALL SWITCH VACANCY SENSOR (MANUAL "ON" AND AUTOMATIC "OFF") MFR: nLIGHT CONTROLS #nWSX-PDT-LV-DX. INSTALL PER MANUFACTURERS INSTRUCTIONS.	48" A.F.F.
LV	SINGLE POLE LOW VOLTAGE SWITCH. MFR: nLIGHT CONTROLS #nPODMA. COORDINATE WITH MANUFACTURER FOR COMPATIBILITY WITH LIGHTING FIXTURES.	48" A.F.F.
LVD	SINGLE POLE LOW VOLTAGE DIMMER SWITCH. MFR: nLIGHT CONTROLS #nPODMA-DX. COORDINATE WITH MANUFACTURER FOR COMPATIBILITY WITH LIGHTING FIXTURES.	48" A.F.F.
(OSa)	DUAL TECHNOLOGY VACANCY SENSOR. MFR: nLIGHT CONTROLS #nCM PDT SERIES. PROVIDE nLIGHT POWER PACK "nPP16-X" FOR EACH SWITCH LEG CONTROLLED BY OCCUPANCY SENSOR. WIRE TO POWER PACK PER MANUFACTURERS INSTRUCTIONS FOR MANUAL "ON" WITH WALL LOW VOLTAGE SWITCH AND AUTOMATIC "OFF" WITH SENSOR. SET DELAY TIMES FOR 15 MINUTES. SET SENSOR SO THAT ONLY ONE TECHNOLOGY IS NEEDED TO KEEP LIGHTS ON. "a" INDICATES SWITCH LEG TO BE CONTROLLED.	CEILING

**NOTES:**

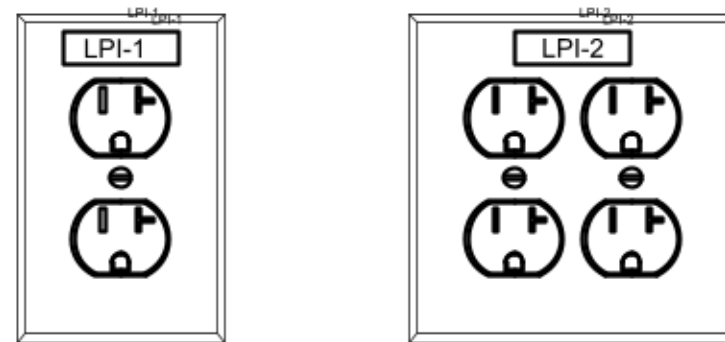
- E.C. SHALL FURNISH AND INSTALL ALL DEVICES AND ACCESSORIES FOR A COMPLETE LIGHTING CONTROL INSTALLATION.
- COORDINATE EXACT REQUIREMENTS FOR INSTALLATION WITH LIGHTING CONTROL REPRESENTATIVE.
- PROVIDE ALL LOW VOLTAGE CABLING REQUIRED FOR CONTROLS.

### SEISMIC RESTRAINT NOTE

- A. GENERAL:** IT IS THE INTENT OF THIS SEISMIC SPECIFICATION TO KEEP ALL ELECTRICAL BUILDING SYSTEM COMPONENTS IN PLACE DURING A SEISMIC EVENT. ALL ELECTRICAL SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH SEISMIC CODES, COMPONENT MANUFACTURERS AND BUILDING CONSTRUCTION STANDARDS. WHENEVER A CONFLICT OCCURS BETWEEN THE MANUFACTURER'S OR CONSTRUCTION STANDARDS, THE MOST STRINGENT SHALL APPLY.
- B. SEISMIC RESTRAINTS SHALL BE DESIGNED IN ACCORDANCE WITH SEISMIC FORCE LEVELS AS DETAILED IN THE APPLICABLE BUILDING CODE.**
- ALL EQUIPMENT, CONDUIT AND PULL BOXES SHALL BE ADEQUATELY RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE BOCA NATIONAL BUILDING CODE IN ACCORDANCE WITH THE APPLICABLE SEISMIC ZONE.
  - ANCHOR BOLT CALCULATORS, SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, SHALL BE SUBMITTED SHOWING ADEQUACY OF THE BOLT SIZING AND TYPE. STAMPED CALCULATIONS SHALL ALSO BE FURNISHED FOR ANCHORS ON RESTRAINT DEVICES, CABLES, ISOLATORS AND RIGIDLY MOUNTED EQUIPMENT.

### RETURN AIR PLENUM NOTE

ALL CABLES AND WIRING INSTALLED ABOVE RETURN AIR PLENUM CEILINGS SHALL BE UL LISTED AND APPROVED FOR USE IN RETURN AIR PLENUM SPACES PER CODE. VERIFY EXACT LOCATIONS WITH OWNER, G.C. AND M.C. PRIOR TO BID. (TYPICAL)



- NOTES:**
- LABEL ALL RECEPTACLES WITH PANEL DESIGNATION AND CIRCUIT NUMBER
  - LABEL SHALL BE BLACK LETTERING ON CLEAR TAPE EQUAL TO P-TOUCH EXTRA STRENGTH ADHESIVE TZ LAMINATED TAPE

### RECEPTACLE LABELING REQUIREMENTS

NOT TO SCALE

### WIRING DEVICE LEGEND

(Symbol)	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE	18" A.F.F.	(Symbol)	COMBINATION TELEPHONE/DATA OUTLET; PROVIDE 3/4"C. (EMT) WITH PULL STRING FROM OUTLET TO ABOVE DROP CEILING. "C" INDICATES TO LOCATION ABOVE COUNTER BACKSPLASH, "W" INDICATES WALL MOUNTED TELEPHONE MOUNTED PER ARCHITECT'S DIRECTION. EACH OUTLET SHALL BE PROVIDED WITH (3) CATEGORY 6 CABLES PER THE OWNER'S SPECIFICATIONS.	18" A.F.F.
(Symbol)	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE	42" A.F.F. OR 6" ABOVE COUNTER	(Symbol)	DATA OUTLET; PROVIDE 3/4"C. (EMT) WITH PULL STRING FROM OUTLET TO ABOVE DROP CEILING. "C" INDICATES TO LOCATION ABOVE COUNTER BACKSPLASH, "W" INDICATES WALL MOUNTED TELEPHONE MOUNTED PER ARCHITECT'S DIRECTION. EACH OUTLET SHALL BE PROVIDED WITH (3) CATEGORY 6 CABLES PER THE OWNER'S SPECIFICATIONS.	18" A.F.F.
(Symbol)	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION.	18" A.F.F.	(Symbol)	TELEPHONE OUTLET; PROVIDE 3/4"C. (EMT) WITH PULL STRING FROM OUTLET TO ABOVE DROP CEILING. "C" INDICATES TO LOCATION ABOVE COUNTER BACKSPLASH, "W" INDICATES WALL MOUNTED TELEPHONE MOUNTED PER ARCHITECT'S DIRECTION. EACH OUTLET SHALL BE PROVIDED WITH (3) CATEGORY 6 CABLES PER THE OWNER'S SPECIFICATIONS.	18" A.F.F.
(Symbol)	DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION.	42" A.F.F. OR 6" ABOVE COUNTER	(Symbol)	TELEVISION OUTLET. E.C. SHALL PROVIDE RECESSED BACKBOX WITH 3/4" CONDUIT WITH PULL STRING BOX TO ABOVE DROP CEILING WITHIN THE BUILDING. PROVIDE BUSHED END CAPS TO ALL CONDUITS. SEE "TYPICAL ELECTRICAL NOTES", #16 ON THE SHEET.	18" A.F.F.
(Symbol)	SPECIAL NEMA CONFIGURATION OUTLET; VERIFY NEMA TYPE WITH EQUIPMENT TO BE SERVED.	-	(Symbol)	MOTOR; REFER TO PLANS FOR DETAILS.	-
(Symbol)	SINGLE CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE.	18" A.F.F.	(Symbol)	RECESSED MOUNTED PANELBOARD; 208Y/120V, 3-PHASE, 4-WIRE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.	MOUNT 6'-6" AFF TO TOP BREAKER.
(Symbol)	DEDICATED DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE.	18" A.F.F.	(Symbol)	SURFACE MOUNTED PANELBOARD; 208Y/120V, 3-PHASE, 4-WIRE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.	MOUNT 6'-6" AFF TO TOP BREAKER.
(Symbol)	SWITCHED DUPLEX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. TOP OUTLET SWITCHED, BOTTOM OUTLET UN-SWITCHED. REFER TO PLANS FOR SWITCH LOCATION(S).	18" A.F.F.	(Symbol)	RECESSED MOUNTED PANELBOARD; 480Y/277V, 3-PHASE, 4-WIRE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.	MOUNT 6'-6" AFF TO TOP BREAKER.
(Symbol)	QUADRUPLUX CONVENIENCE OUTLET; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE.	18" A.F.F.	(Symbol)	SURFACE MOUNTED PANELBOARD; 480Y/277V, 3-PHASE, 4-WIRE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.	MOUNT 6'-6" AFF TO TOP BREAKER.
(Symbol)	DUPLEX CONVENIENCE OUTLET IN FLOOR BOX; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE.	FLOOR	(Symbol)	RELAY; REFER TO PLANS FOR RATINGS.	-
(Symbol)	DUPLEX CONVENIENCE OUTLET IN CEILING; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE.	CEILING	(Symbol)	CONTACTOR; REFER TO PLANS FOR RATINGS.	-
(Symbol)	QUAD-RUPLEX CONVENIENCE OUTLET IN FLOOR BOX; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE.	FLOOR	(Symbol)	TIMECLOCK; REFER TO DETAILS ON PLANS.	-
(Symbol)	QUAD-RUPLEX CONVENIENCE OUTLET IN CEILING; 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE.	CEILING	(Symbol)	FUSED DISCONNECT SWITCH. 60AF/50AT INDICATES FRAME SIZE/FUSE SIZE IN THAT ORDER, 3P INDICATES NUMBER OF POLES & 3R INDICATES NEMA RATING. STARTERS FOR HVAC EQUIPMENT BY MECHANICAL CONTRACTOR.	60AF/50AT/3P/3R
(Symbol)	JUNCTION BOX; SIZE AS REQUIRED PER CODE.	-	(Symbol)	UN-FUSED DISCONNECT SWITCH. 60AF INDICATES FRAME SIZE, 3P INDICATES NUMBER OF POLES & 3R INDICATES NEMA RATING. STARTERS FOR HVAC EQUIPMENT BY MECHANICAL CONTRACTOR.	60AF/3P/3R
(Symbol)	PLUGMOLD; REFER TO PLANS FOR DETAILS.	-	(Symbol)	RECESSED FLOOR-BOX/POKE-THRU WITH COMMUNICATIONS FURNITURE FEED (MINIMUM 2" CONDUIT). REFER TO FURNITURE CONNECTION DETAIL ON ELECTRICAL DETAILS SHEET. VERIFY EXACT ELECTRICAL CONNECTION REQUIREMENTS WITH FURNITURE MANUFACTURER.	FLOOR
(Symbol)	WALL OR COLUMN RECESSED JUNCTION BOX WITH POWER FURNITURE FEED (MINIMUM 1" CONDUIT). REFER TO PRE WIRED FURNITURE DETAIL ON ELECTRICAL DETAILS SHEET. VERIFY EXACT ELECTRICAL CONNECTION REQUIREMENTS WITH FURNITURE MANUFACTURER.	18" A.F.F.	(Symbol)	GROUNDING CONDUCTOR / MEANS & METHOD; IN ACCORDANCE WITH THE "NATIONAL ELECTRIC CODE", (NEC), REFER TO PLANS FOR SIZING.	-
(Symbol)	WALL OR COLUMN RECESSED JUNCTION BOX WITH COMMUNICATIONS FURNITURE FEED (MINIMUM 2" CONDUIT). REFER TO PRE WIRED FURNITURE DETAIL ON ELECTRICAL DETAILS SHEET. VERIFY EXACT ELECTRICAL CONNECTION REQUIREMENTS WITH FURNITURE MANUFACTURER.	18" A.F.F.			
(Symbol)	RECESSED FLOOR-BOX/POKE-THRU WITH POWER FURNITURE FEED (MINIMUM 1" CONDUIT). REFER TO FURNITURE CONNECTION DETAIL ON ELECTRICAL DETAILS SHEET. VERIFY EXACT ELECTRICAL CONNECTION REQUIREMENTS WITH FURNITURE MANUFACTURER.	FLOOR			

### NOTES:

DEVICES WITH THE FOLLOWING SUBSCRIPTS SHALL BE PROVIDED & UL LISTED TO BE INSTALLED / WIRED AS NOTED:

- H - HOSPITAL GRADE
- IG - ISOLATED GROUND
- T - TAMPER RESISTANT

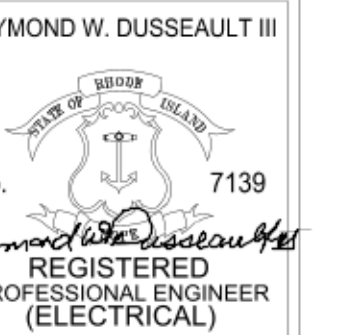
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE G.C. FOR WALLS BEING FURRED-OUT WITH SHEETROCK DRYWALL SO OUTLET BOXES & DEVICES CAN BE INSTALLED FLUSH WITHIN THE WALLS. (TYPICAL)
- ALL RECEPTACLES SHALL BE PROVIDED WITH AN ADHERED, TYPED LABEL INDICATING PANEL NAME AND CIRCUIT NUMBER. HANDWRITTEN LABELS WILL NOT BE ACCEPTED.
- ALL RECEPTACLES WITH A DEDICATED CIRCUIT SHALL BE LABELED WITH PANEL NAME AND CIRCUIT NUMBER AS INDICATED IN NOTE #3 AS WELL AS LABELED "DEDICATED".
- ALL COLORS OF RECEPTACLES AND ASSOCIATED FACEPLATES TO BE CONFIRMED WITH OWNER'S REPRESENTATIVE AND LOCAL (AHJ) PRIOR TO ANY SUBMITTALS. PURCHASE AND/OR INSTALLATION OF EQUIPMENT. THIS REQUIREMENT AS INDICATED IN NOTE #11 SHALL BE CORRECTED AS REQUIRED.
- ALL TYPES AND LOCATIONS OF RECEPTACLES TO BE CONFIRMED WITH OWNER'S REPRESENTATIVE AND LOCAL (AHJ) PRIOR TO ANY SUBMITTALS. PURCHASE AND/OR INSTALLATION OF EQUIPMENT. FAILURE OF THIS REQUIREMENT AS INDICATED IN NOTE #3 SHALL BE CORRECTED AS REQUIRED.
- ANY CONFLICT WITH RECEPTACLE LOCATIONS, TYPES OF RECEPTACLES OR COLORS OF RECEPTACLES WITH OWNER'S REPRESENTATIVE OR WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, AND GENERAL CONTRACTOR TO PROVIDE ALL ADDITIONAL WORK AND EXPENSES TO REPAIR AND CORRECT. NO ADDITIONAL REIMBURSEMENTS OR TIME OF COMPLETION FOR WORK WILL BE ALLOWED.
- ALL RECEPTACLES LOCATED WITHIN HEATHCARE FACILITIES SHALL BE PROVIDED WITH AN ILLUMINATED FACE, OR INDICATOR LIGHT.
- IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH LOCAL (AHJ) FOR ALL INSTALLATIONS AND REQUIREMENTS.

ALL DEVICES ARE BASED ON LEGRAND.

### ABBREVIATIONS

A	AMPERES	DWG	DRAWING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER.	M.C.	MECHANICAL CONTRACTOR	RE	RE-LOCATED DEVICE OR EQUIPMENT SHOWN IN NEW LOCATION
ADA	AMERICANS WITH DISABILITIES ACT	E.C.	ELECTRICAL CONTRACTOR	G	GROUND	MECH	MECHANICAL	TYP	TYPICAL
AMPS	AMPERES	EQ	EQUAL	GND	GROUND	MIN	MINIMUM	UL	UNDERWRITERS LABORATORY
AFF	ABOVE FINISHED FLOOR	ER	EXISTING TO REMAIN	HVAC	HEATING, VENTILATING, & AIR CONDITIONING	NAC	F.A. NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANEL	UON	UNLESS OTHERWISE NOTED
A/C	AIR CONDITIONING	ERL	EXISTING TO BE RE-LOCATED	I.T.	INFORMATION TECHNOLOGY	NEC	NATIONAL ELECTRICAL CODE	UPS	UNINTERRUPTIBLE POWER SUPPLY
AWG	AMERICAN WIRE GAGE	F.A.	FIRE ALARM	JB	JUNCTION BOX	NTS	NOT TO SCALE	V	VOLTS
C	CONDUIT	FACP	FIRE ALARM CONTROL PANEL	KVA	KILOVOLT-AMPERES	P	POLE	W	WATTS
CB	CIRCUIT BREAKER	FLR	FLOOR	KW	KILOWATT	P.C.	PLUMBING CONTRACTOR	WP	WEATHER-PROOF
C/F	COMPACT FLUORESCENT	G.C.	GENERAL CONTRACTOR	LTG	LIGHTING	PNL	PANEL	CL	CENTERLINE
CLG	CEILING			MAX	MAXIMUM				
DN	DOWN								

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Renovations for:  
**PHA Galego Court  
Administration Building  
& Building 200**  
483 Weeden Street  
Pawtucket, RI 02860



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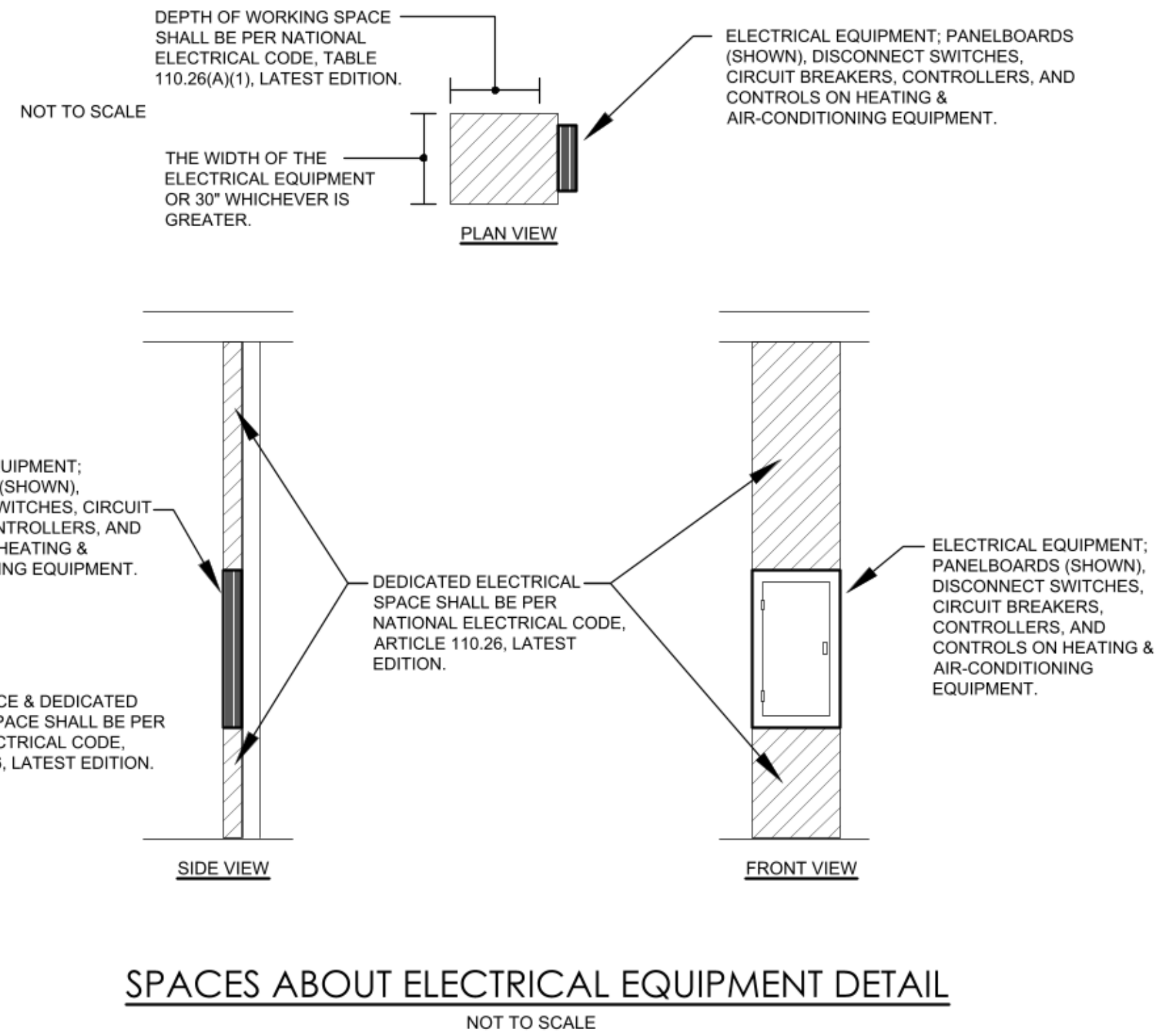
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REVISED DATE:

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CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023





SPACES ABOUT ELECTRICAL EQUIPMENT DETAIL

TYPICAL ELECTRICAL NOTES

- FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE PROPER AND COMPLETE INSTALLATION OF ALL ELECTRIC WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
- ALL ITEMS NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE ELECTRICAL INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
- ALL ELECTRICAL INSTALLATIONS AND GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE LOCAL, STATE AND NATIONAL CODES.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- MATERIALS AND WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KIND AND IN FULL ACCORDANCE WITH THE MOST MODERN ELECTRICAL CONSTRUCTION STANDARDS. ALL MATERIAL SHALL BE NEW, UNLESS OTHERWISE NOTED AND FREE OF ANY DEFECTS.
- THE ELECTRICAL CONTRACTOR SHALL CLEAN AT THE END OF EACH DAY ALL AREAS WORKED IN. EMPTY BOXES, RUBBISH, AND OTHER CONSTRUCTION MATERIALS OF NO USE SHALL BE REMOVED FROM THE BUILDING.
- ALL WORK SEQUENCES SHALL BE COORDINATED WITH THE G.C. AND SHALL BE COORDINATION WITH OTHER BUILDING TRADES AND G.C. BUILDING SCHEDULES.
- ALL BRANCH CIRCUITS RATED AT 120 VOLTS, 20 AMPERES EXCEEDING 75 FEET SHALL BE MINIMUM #10 AWG.
- THE ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WITH THE LOCAL UTILITY POWER COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH THE UTILITY POWER COMPANY'S REQUIREMENTS AND STANDARDS, PRIOR TO ORDERING ANY ELECTRICAL EQUIPMENT, SUCH AS, SWITCHGEAR, PANELS, TRANSFORMERS, DISCONNECT SWITCHES, ETC... E.C. SHALL CONFIRM METERING SEQUENCE (HOT OR COLD) AND MAKE THE APPROPRIATE PROVISIONS FOR THE APPROVED METERING SEQUENCE ARRANGEMENT, A.I.C. RATINGS, GROUNDING, BONDING, RACEWAYS, ETC... SHALL BE IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS.
- THE ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WITH THE LOCAL TELEPHONE COMPANY AND PROVIDE ALL MATERIAL & LABOR REQUIRED TO COMPLY WITH THE TELEPHONE COMPANY'S REQUIREMENTS AND STANDARDS, PRIOR TO ORDERING ANY ELECTRICAL EQUIPMENT, SUCH AS, TERMINAL BOARDS, GROUNDING, RACEWAYS, ETC...
- ALL RECEPTACLE WITH "WP" DESIGNATION SHALL BE PROVIDED WITH A WEATHER-PROOF WHILE IN-USE ENCLOSURE. (TYPICAL)
- ELECTRICAL CONTRACTOR TO ALLOW TIME FOR DIRECTIONAL ADJUSTMENT OF ALL LIGHT FIXTURES AS DIRECTED BY OWNER.
- ALL RECEPTACLES SHALL BE LABELED INDICATING THEIR RESPECTIVE PANEL & CIRCUIT NUMBER.
- AT EXISTING FLOOR SLABS AND WALLS TO BE CORE-DRILLED OR CUT, THE CONTRACTOR SHALL FIND AND MARK ALL EXISTING REINFORCING, PIPING, CONDUIT & FEEDERS, ETC IN BOTH FACES LOCATED BY MEANS OF X-RAY, PACHOMETER, OR PROFOMETER, SUBMIT DRAWING SHOWING LOCATIONS OF EXISTING REBAR, PIPING AND/OR CONDUIT AND PROPOSED CORES AND/OR CUTS FOR REVIEW.
- ALL PENETRATIONS FOR POWER RECEPTACLES, JUNCTION BOXES, TELEPHONE/DATA OUTLETS, SWITCHES, BACKBOXES, ETC... LOCATED IN EXTERIOR WALLS SHALL BE PROVIDED WITH APPROPRIATE CAULKING AND GASKETS TO SEAL OFF AND PREVENT AIR LEAKAGE. FOLLOW CAULKING AND GASKET MANUFACTURERS INSTALLATION GUIDELINES TO ENSURE CORRECT AND EFFECTIVE INSTALLATION.
- WHERE "TV" POWER RECEPTACLES AND TELEVISION LOW VOLTAGE OUTLETS ARE SHOWN ON THE PLANS THEY SHALL BE INSTALLED USING A LOW-VOLTAGE RECESSED MEDIA PLATE WITH DUPLEX RECEPTACLE EQUAL TO COMMERCIAL ELECTRIC #5310-WH PROVIDE POWER RECEPTACLE BACK-BOX AS REQUIRED OR PER THE OWNER'S STANDARDS & DIRECTION (COORDINATE WITH OWNER PRIOR TO ANY WORK. (TYPICAL)
- NON-COMBUSTIBLE MATERIALS SHALL BE USED IN CONCEALED SPACES AND ALL MATERIALS USED IN CONSTRUCTION MUST MEET THE CODE REQUIREMENTS FOR THE CONSTRUCTION TYPE.

LUMINAIRE BRANCH CIRCUIT WIRING SCHEDULE

CONDUCTOR AWG.	MAXIMUM CONDUCTOR LENGTH AT 120V	MAXIMUM CONDUCTOR LENGTH AT 277V	GROUND CONDUCTOR AWG.
#12	75'-0"	175'-0"	#12
#10	120'-0"	285'-0"	#10
#8	190'-0"	445'-0"	#10
#6	300'-0"	-	#10

- RECEPTACLE BRANCH CIRCUIT WIRING SCHEDULE NOTES:
- BASED ON 20A CIRCUIT LOADED TO 9A USING SINGLE PHASE, 2 WIRE CIRCUITS.
  - THE ABOVE SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED FROM PANEL TO CENTER OF LEAD TO OVERCOME VOLTAGE DROP.
  - MAKE PROVISIONS FOR JUNCTION BOX ADJACENT TO OUTLET TO TRANSITION TO #12 WIRE FOR FINAL TERMINATIONS TO DEVICE AS REQUIRED.

RECEPTACLE BRANCH CIRCUIT WIRING SCHEDULE

CONDUCTOR AWG.	MAXIMUM CONDUCTOR LENGTH AT 120V	GROUND CONDUCTOR AWG.
#12	100'-0"	#12
#10	165'-0"	#10
#8	255'-0"	#10
#6	405'-0"	#10

- RECEPTACLE BRANCH CIRCUIT WIRING SCHEDULE NOTES:
- BASED ON 20A CIRCUIT LOADED TO 9A USING SINGLE PHASE, 2 WIRE CIRCUITS.
  - THE ABOVE SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED FROM PANEL TO CENTER OF LEAD TO OVERCOME VOLTAGE DROP.
  - MAKE PROVISIONS FOR JUNCTION BOX ADJACENT TO OUTLET TO TRANSITION TO #12 WIRE FOR FINAL TERMINATIONS TO DEVICE AS REQUIRED.

TELEPHONE & DATA RACEWAY NOTES

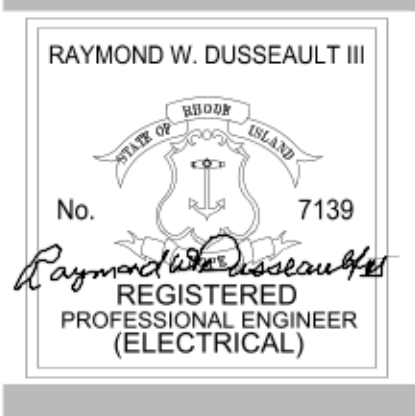
- NO SECTION OF CONDUIT SHALL BE LONGER THAN 100-FEET BETWEEN PULL POINTS.
- NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS (e.g., OUTLET BOXES, TELECOMMUNICATIONS CLOSETS, OR PULL BOXES). IF THERE IS A REVERSE (U-SHAPED) BEND IN THE SECTION, A PULL BOX SHALL BE INSTALLED.
- THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS.
- ANY SINGLE CONDUIT RUN EXTENDING FROM A TELECOMMUNICATIONS CLOSET SHALL NOT SERVE MORE THAN THREE OUTLET BOXES.
- CONDUITS PROTRUDING / PENETRATING THROUGH THE FLOOR IN THE TELECOMMUNICATIONS CLOSETS SHALL BE TERMINATED 3-INCHES ABOVE THE FLOOR ADJACENT WALLS. PROTRUSIONS / PENETRATIONS SHALL BE LOCATED TO AVOID CREATING A TRIPPING HAZARD WITHIN THE CLOSETS. FIRESTOP ALL PROTRUSIONS / PENETRATIONS.
- A MINIMUM 3/4-INCH CONDUIT SHALL BE PROVIDED FROM THE TELECOMMUNICATIONS CLOSET TO SERVE EACH WALL-MOUNTED PUBLIC TELEPHONE. IN DISCUSSION WITH THE TELEPHONE PROVIDER, AND WHERE IT IS DESIRABLE TO CONCEAL THE OUTLET BOX DIRECTLY BEHIND THE TELEPHONE, THE CENTER OF THE OUTLET BOX SHALL BE LOCATED 48-INCHES ABOVE THE FINISHED FLOOR. FOR RECESSED APPLICATIONS, THE CONDUIT AND BOX SHALL BE INSTALLED TO SUIT THE SPECIFIC TYPE OF MOUNTING. REFER TO APPLICABLE CODES, ADA GUIDELINES, UNIFORM FEDERAL ACCESSIBILITY STANDARDS, MANUFACTURERS SPECIFICATIONS AND ANSI STANDARDS FOR ADDITIONAL REQUIREMENTS.
- WHERE A TELECOMMUNICATIONS CONDUIT IS TO BE INSTALLED TO A DEVICE EXPOSED TO THE WEATHER, CARE SHALL BE TAKEN TO PREVENT THE INGRESS OF MOISTURE. CARE SHALL ALSO BE TAKEN TO ENSURE THAT MOISTURE WILL NOT COLLECT IN LOW POINTS, FREEZE AND DAMAGE THE CABLE. NONMETALLIC CONDUIT SHALL BE UV RESISTANT AND MARKED ACCORDINGLY.
- CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING.
- REFER TO ANSI/TIA/EIA-606 FOR ADMINISTRATION OF THE CONDUIT SYSTEM IDENTIFICATION.
- ALL CONDUITS SHALL BE PROVIDED WITH PULL STRINGS.
- OUTLET BOXES SHALL BE NO SMALLER THAN 2-INCHES WIDE, 3-INCHES HIGH AND 2.5-INCHES DEEP. THIS WILL ACCOMMODATE ONE OR TWO 3/4-INCH CONDUITS. WHERE A LARGER CONDUIT IS REQUIRED, THE BOX SHALL BE INCREASED ACCORDINGLY. A MAXIMUM 1-1/4-INCH CONDUIT WILL REQUIRE A 4-11/16-INCH x 4-11/16-INCH x 2-1/2-INCH BOX.
- CONDUIT TYPES SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR RIGID METAL CONDUIT. LOCATIONS SUBJECT TO MOISTURE SHALL BE RIGID PVC. FLEXIBLE CONDUIT SHALL NOT BE USED FOR TELE/DATA RACEWAYS.
- CONDUIT REQUIREMENTS FOR SUPPORT, END PROTECTION AND CONTINUITY SHALL COMPLY WITH APPROPRIATE ELECTRICAL CODES.
- CONDUIT AND BOXES FOR TELE/DATA WIRING SHALL BE DEDICATED TO THOSE SYSTEMS. POWER WIRING SHALL BE KEPT OUT OF CONDUIT AND BOXES DEDICATED TO TELE/DATA WIRING.
- CONDUIT SIZE FOR MAXIMUM NUMBER OF CABLES (SEE TABLE BELOW):

Conduit Trade Size	Maximum number of cables based upon allowable fill									
	0.13	0.18	0.22	0.24	0.29	0.31	0.37	0.53	0.62	0.70
1/2"	1	1	0	0	0	0	0	0	0	0
3/4"	6	5	4	3	2	2	1	0	0	0
1"	8	8	7	6	3	3	2	1	0	0
1-1/4"	16	14	12	10	6	4	3	1	1	1
1-1/2"	20	18	16	15	7	6	4	2	1	1
2"	30	26	22	20	14	12	7	4	3	2
2-1/2"	45	40	36	30	17	14	12	6	3	3
3"	70	60	50	40	20	20	17	7	6	6
3-1/2"	-	-	-	-	-	-	22	12	7	6
4"	-	-	-	-	-	-	30	14	12	7

NOTES FOR ALUMINUM EQUIPMENT

- THESE DRAWINGS ARE BASED ON THE USE OF COPPER IN CONDUCTORS, TRANSFORMER WINDINGS, SWITCHBOARDS, DISTRIBUTION PANELBOARDS, BRANCH CIRCUIT PANELBOARDS, LOAD CENTERS, DISCONNECT SWITCHES & CIRCUIT BREAKERS.
- ALTHOUGH PERMITTED BY CODE, THIS OFFICE DOES NOT RECOMMEND THE USE OF ALUMINUM ELECTRICAL EQUIPMENT.
- USE OF ALUMINUM CONDUCTORS, TRANSFORMERS WITH ALUMINUM WINDINGS AND SWITCHBOARDS, DISTRIBUTION PANELBOARDS, BRANCH CIRCUIT PANELBOARDS, LOAD CENTERS, DISCONNECT SWITCHES & CIRCUIT BREAKERS WITH ALUMINUM BUSS IS AT THE DISCRETION & DECISION OF THE OWNER.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE ALL CONDUCTOR AND CONDUIT SIZES, PER NEC, SHOULD ALUMINUM BE USED.
- IF ALUMINUM EQUIPMENT IS USED IN ANY OF THE ELECTRICAL COMPONENTS OF ITEM "3" ABOVE, THE FOLLOWING PROCEDURE SHALL BE FOLLOWED:
  - INSTALLATION SHALL BE IN ACCORDANCE WITH IEEE STD. 241-1990, PARAGRAPH 8.7.2
  - WHEN CUTTING CABLE, AVOID NICKING THE STRANDS.
  - UNPLATED CONTACT SURFACES SHALL BE CLEANED WITH WIREBRUSH, STEEL WOOL, EMERY CLOTH OR SIMILAR ABRASIVE TOOL OR MATERIAL.
  - PLATED SURFACES SHALL BE CLEANED WITH AN APPROVED SOLVENT.
  - APPLY JOINT COMPOUND TO THE CONDUCTOR IF THE CONNECTOR DOES NOT ALREADY HAVE IT.
  - USE ONLY CONNECTORS SPECIFICALLY TESTED AND APPROVED FOR USE ON ALUMINUM CONDUCTORS.
  - REFER TO ANSI/UL486B-1982.
  - ON MECHANICAL CONNECTORS, TIGHTEN THE CONNECTOR WITH A SCREWDRIVER OR WRENCH TO THE REQUIRED TORQUE. REMOVE EXCESS COMPOUND.
  - ON COMPRESSION CONNECTORS, CRIMP THE CONNECTOR USING THE PROPER TOOL AND DIE. REMOVE EXCESS COMPOUND.
  - ALWAYS USE JOINT COMPOUND THAT IS COMPATIBLE WITH THE INSULATION AND AS RECOMMENDED BY THE MANUFACTURER.
  - WHEN MAKING AN ALUMINUM-TO-COPPER CONNECTION THAT IS EXPOSED TO MOISTURE, PLACE THE ALUMINUM CONDUCTOR ABOVE THE COPPER. IF THERE IS NO EXPOSURE TO MOISTURE, THE RELATIVE POSITION OF THE TWO METALS IS NOT IMPORTANT.
  - WHEN USING INSULATED CONDUCTORS OUTDOORS, EXTEND THE CONDUCTOR INSULATION OR COVERING AS CLOSE TO THE CONNECTOR AS POSSIBLE TO MINIMIZE WEATHERING THE JOINT. OUTDOOR JOINTS SHALL BE COMPLETELY PROTECTED BY TAPE OR OTHER MEANS. WHEN OUTDOOR JOINTS ARE COVERED OR PROTECTED, THE PROTECTION SHALL COMPLETELY EXCLUDE MOISTURE.
- WHEN ALUMINUM FEEDERS ARE INCLUDED AS VE ITEMS, IT IS RECOMMEND THAT ALUMINUM BE USED ONLY FOR DISTRIBUTION FEEDERS LARGER THAN 100 A PROVIDED THAT COMPRESSION AL/CU PIN TERMINATIONS ARE UTILIZED. VOLTAGE DROP CALCULATIONS SHALL BE REVISED UTILIZING ALUMINUM CONDUCTORS. IT IS NOT RECOMMEND THAT ALUMINUM FEEDERS BE UTILIZED FOR ROTATING (MOTORS) OR VIBRATING TRANSFORMERS OR EQUIPMENT.

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Renovations for:  
**PHA Galego Court  
Administration Building  
& Building 200**  
483 Weeden Street  
Pawtucket, RI 02860



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CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

PROJECT #: 2123  
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**EMERGENCY LIGHTING NOTE:**

ALL NEW EMERGENCY BATTERY UNITS AND EXIT SIGNS, SHALL BE TIED INTO LOCAL AREA, 120 VOLT LIGHTING CIRCUIT AHEAD OF ANY / ALL SWITCHING. (TYPICAL)

**EMERGENCY LIGHTING  
6-VOLT SYSTEM VOLTAGE DROP TABLE**

TOTAL WATTS ON WIRE RUN	WIRE GAUGE			
	12	10	8	6
6	94	150	238	379
7	81	129	204	325
8	70	112	179	284
10	56	90	143	227
12	44	70	112	178
14	40	64	102	162
16	33	53	84	134
18	30	47	75	119
20	28	45	71	114
21	27	43	68	108
24	24	38	60	95
25	21	34	54	86
30	19	30	48	76
35	15	25	39	63
40	13	21	33	53
48	11	17	28	44
50	11	17	27	43
75	7	11	18	29
100	5	8	14	21
125	4	7	11	17
150	3	5	9	14
175	3	5	8	12
200	2	4	6	10
225	2	4	6	10
250	2	3	5	9

MAXIMUM LENGTH OF RUN IN FEET

SYMBOL	DESCRIPTION	MOUNTING
	SELF-CONTAINED EMERGENCY, WALL MOUNTED LIGHTING FIXTURE WITH DUAL LIGHTING HEADS. COORDINATE WITH E.C. TO PROVIDE ALL NECESSARY ACCESSORIES FOR WIRING DEVICES. MFG. LITHONIA LIGHTING, CAT. #EU2C.	WALL
	WEATHER PROOF (LOW VOLTAGE) WALL MOUNTED LIGHTING FIXTURE. COORDINATE WITH E.C. TO PROVIDE ALL NECESSARY ACCESSORIES FOR WIRING DEVICES. MFG. LITHONIA LIGHTING, CAT. #ERE-B-T-WP.	UNIVERSAL (VERIFY IN FIELD)
	LOW VOLTAGE POWER WIRING BETWEEN EMERGENCY BATTERY UNITS AND REMOTE LIGHTING HEADS. REFER TO "EMERGENCY LIGHTING CONNECTION DETAIL" FOR WIRING REQUIREMENTS. CONTRACTOR TO VERIFY ALL ROUTING, LENGTHS AND TERMINATIONS OF WIRING.	
	SINGLE FACE LED EDGE-LIT EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. MFG. LITHONIA, CAT. #EXIT-(ARROWS). PROVIDE ARROWS AS INDICATED ON PLANS, FIELD VERIFY WALL (OR) CEILING MOUNTING.	WALL / CLG.
	COMBINATION SINGLE FACE LED LIGHTED EXIT SIGN WITH EMERGENCY LIGHTING HEADS, BATTERY BACK-UP & SPARE CAPACITY FOR REMOTE LIGHTING HEADS. MFG. LITHONIA LIGHTING, CAT. #ECR-LED-HO-M6. PROVIDE ARROWS AS INDICATED ON PLANS, FIELD VERIFY WALL (OR) CEILING MOUNTING.	WALL / CLG.

SYMBOL	DESCRIPTION	MOUNTING
	LOCAL 120 VOLT, SMOKE DETECTOR. DETECTOR SHALL BE WIRED INTO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. DETECTOR SHALL BE TIED INTO REMAINING LOCAL INITIATING DEVICES WITHIN THE UNIT, SO THAT WHEN ONE DEVICE IS ACTIVATED, ALL LOCAL DEVICES ARE ACTIVATED.	CEILING
	LOCAL 120 VOLT, COMBINATION SMOKE / CARBON MONOXIDE DETECTOR. COMBO DETECTOR SHALL BE WIRED INTO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. COMBO DETECTOR SHALL BE TIED INTO REMAINING LOCAL INITIATING DEVICES WITHIN THE UNIT, SO THAT WHEN ONE DEVICE IS ACTIVATED, ALL LOCAL DEVICES ARE ACTIVATED.	CEILING
	LOCAL 120 VOLT STROBE. STROBE SHALL BE WIRED INTO LOCAL SMOKE & CARBON MONOXIDE DETECTORS IN "ACCESSIBLE" UNITS, SO THAT WHEN ANY ONE DEVICE (DETECTOR) IS ACTIVATED, ALL LOCAL STROBE DEVICES ARE ACTIVATED.	WALL
	LOCAL 120 VOLT INTERCONNECT WIRING BETWEEN LOCAL FIRE ALARM DEVICES LOCATED IN UNITS.	

SYMBOL	DESCRIPTION
	1. PROVIDE FIRE ALARM ISOLATION MODULE AT THE BEGINNING AND END OF EACH LOOP OF INITIATING DEVICES. ALSO PROVIDE FIRE ALARM ISOLATION MODULE AT A MAXIMUM OF EVERY 25 DEVICES ON LOOP.
	2. PROVIDE 20 AMP CIRCUIT (2#12 + 1#12 GND. IN 3/4") FROM SPARE BREAKER IN LOCAL 120/208V PANEL FOR EACH NEW NAC PANEL. PROVIDE BREAKER LOCK-ON DEVICE.
	3. GROUND NEW NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL, PER LATEST EDITION OF NATIONAL ELECTRICAL CODE.

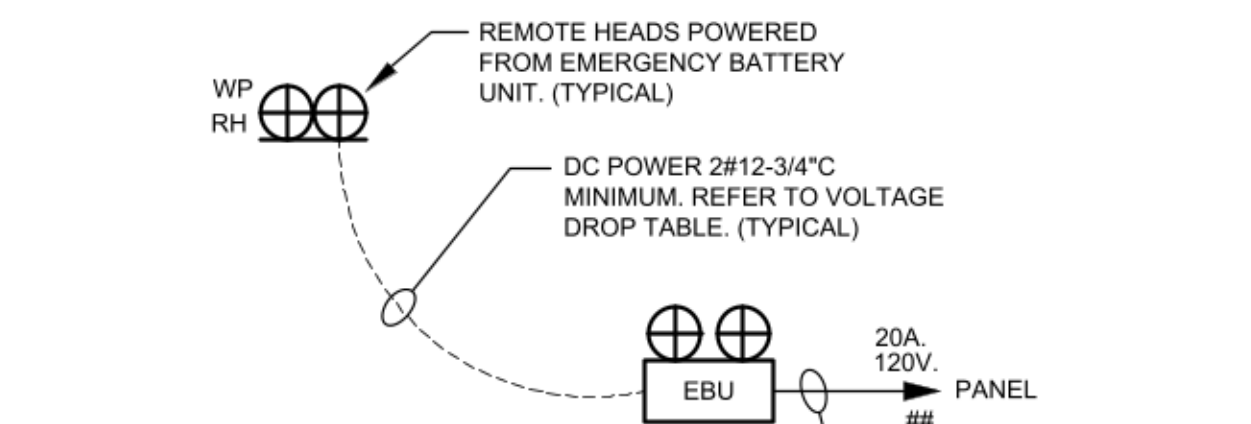
NOTES:
<ul style="list-style-type: none"> <li>CONTRACTOR SHALL PROVIDE ADDITIONAL POWER SUPPLIES IN FIRE ALARM CONTROL PANEL AS REQUIRED AS WELL AS NEW NOTIFICATION EXTENDER PANELS (NAC), TO PROVIDE POWER FOR ALL NOTIFICATION DEVICES. COORDINATE REQUIRED EQUIPMENT WITH LOCAL MANUFACTURER'S REPRESENTATIVE. (TYPICAL)</li> <li>CONTRACTOR SHALL ACQUIRE ACTUAL DEVICE COUNTS FROM FLOOR PLANS, NOT THIS RISER. THIS RISER DIAGRAM IS FOR WIRING INTENT PURPOSES ONLY.</li> <li>FIRE ALARM SYSTEM AND ASSOCIATED EQUIPMENT DESIGN HAS BEEN BASED AROUND EDWARDS SYSTEM TECHNOLOGY, INC. (EST). CONTRACTOR SHALL CONTACT AND COORDINATE WITH LOCAL MANUFACTURER'S REPRESENTATIVE, FOR ALL SPECIFIC INSTALLATION AND EQUIPMENT INFORMATION REQUIRED. (OR EQUAL) FIRE ALARM SYSTEM SHALL BE APPROVED DURING SUBMITTAL REVIEW.</li> </ul>

NFPA SYMBOL	TYPICAL INDUSTRY SYMBOL	DESCRIPTION / REMARKS	NFPA SYMBOL	TYPICAL INDUSTRY SYMBOL	DESCRIPTION / REMARKS
		FIRE ALARM SYSTEM / VOICE EVACUATION CONTROL PANEL.			FIRE ALARM SYSTEM, SMOKE DETECTOR.
		FIRE SYSTEM ANNUNCIATOR ALARM			FIRE ALARM SYSTEM, CARBON MONOXIDE DETECTOR.
		BATTERY PACK AND CHARGER - FROM NECA 100, SYMBOL 7.010			FIRE ALARM SYSTEM, DUCT SMOKE DETECTOR LOCATED IN THE SUPPLY & RETURN DUCTWORK OF HVAC UNITS WITH 2000 CFM (OR) GREATER.
		FIRE ALARM SYSTEM, MASTER-BOX. PROVIDE ALL REQUIRED ACCESSORIES, ANTENNA, CABLE, ETC.			FIRE ALARM SYSTEM, REMOTE TEST STATION WITH SIGNAL / INDICATOR FOR DUCT SMOKE DETECTOR.
		FIRE ALARM SYSTEM, WEATHER-PROOF KNOX BOX.			FIRE ALARM SYSTEM, DRILL SWITCH.
		FIRE ALARM SYSTEM, WEATHER-PROOF "RED" BEACON, LOCATED AT ENTRANCE OF BUILDING MOUNTED DIRECTLY OVER "KNOX-BOX".			FIRE ALARM SYSTEM, DOOR HOLDER.
		FIRE ALARM SYSTEM, HORN / STROBE DEVICE, SUB-SCRIPT INDICATES CANDELA RATING.			FIRE ALARM SYSTEM, RATE-OF-RISE TEMPERATURE HEAT DETECTOR, SUB-SCRIPT INDICATES TEMPERATURE RATING. (SUITABLE FOR 50'-0" "ON CENTER" MOUNTING)
		FIRE ALARM SYSTEM, LOW FREQUENCY HORN DEVICE.			FIRE ALARM SYSTEM, FIXED TEMPERATURE HEAT DETECTOR INSTALLED ABOVE DROP CEILING, SUB-SCRIPT INDICATES TEMPERATURE RATING. (SUITABLE FOR 50'-0" "ON CENTER" MOUNTING)
		FIRE ALARM SYSTEM, PULL STATION, PROVIDE WITH STOPPER II PROTECTIVE COVER AND MOUNTED SO THAT THE OPERABLE PART OF THIS DEVICE IS 48" ABOVE FINISHED FLOOR.			FIRE ALARM MONITOR MODULE.
		FIRE ALARM SYSTEM, RELAY.			FIRE ALARM CONTROL MODULE.

FIRE ALARM NOTES	
<ol style="list-style-type: none"> <li>E.C. SHALL PROVIDE CIRCUIT BREAKER LOCK-ON DEVICES FOR FACP AND NAC POWER EXTENDER CIRCUITS.</li> <li>E.C. SHALL FURNISH &amp; INSTALL REMOTE INDICATING LIGHTS/TEST SWITCHES FOR DUCT SMOKE DETECTORS AS WELL AS SMOKE DETECTOR LOCATED AT THE TOP OF THE ELEV. SHAFTS.</li> <li>REFER TO FLOOR PLANS FOR EXACT NUMBER OF DEVICES &amp; CANDELA RATINGS.</li> <li>COLOR CODE PER NFPA, (LATEST EDITION).</li> <li>ALL SPLICES SHALL BE MADE ON SCREW TYPE TERMINAL BLOCKS. NO WIRENUTS WILL BE ALLOWED.</li> <li>RED PAINTED TERMINAL CABINETS &amp; BOXES WITH LOCKABLE COVERS SHALL BE PROVIDED AT ALL JUNCTION POINTS.</li> <li>AFC FIRE ALARM / CONTROL CABLE TYPE MC (UL LISTED) MAY BE USED ABOVE CEILINGS AND IN CONCEALED AREAS WHERE ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION, OTHERWISE WIRING SHALL BE INSTALLED IN EMT CONDUIT. WIRING IN EXPOSED AREAS SHALL BE EMT, E.C. SHALL PROVIDE AN ALTERNATE TO PAINT PER ARCHITECT'S DIRECTION.</li> <li>THE CONTRACTOR AT COMPLETION OF THE FIRE ALARM SYSTEM SHALL TEST THE ENTIRE SYSTEM PER THE LOCAL FIRE DEPARTMENTS REQUIREMENTS. THE CONTRACTOR SHALL REPLACE OR FIX ANY PART OF THE SYSTEM NOT PROPERLY WORKING.</li> </ol>	<ol style="list-style-type: none"> <li>ALL WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. E.C. SHALL TAKE INTO ACCOUNT VOLTAGE DROP, (TYPICAL)</li> <li>ALL FIRE ALARM SYSTEM COMPONENTS &amp; MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS.</li> <li>E.C. SHALL PROVIDE ANY AND ALL AUXILIARY EQUIPMENT IN ORDER TO PROVIDE A COMPLETE, PROPERLY FUNCTIONING SYSTEM. COORDINATE REQUIREMENTS WITH LOCAL MANUFACTURER'S REP.</li> <li>ALL FIRE ALARM STROBE SIGNAL DEVICES SHALL BE SYNCHRONIZED TYPE DEVICES AND SHALL COMPLY WITH ADA REQUIREMENTS.</li> <li>NO T-TAPPING OF FIRE ALARM WIRING SHALL BE ALLOWED. (TYPICAL)</li> <li>ALL FIRE ALARM WIRING &amp; RACEWAY SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT BE LOCATED AS TO BE DAMAGED BY BUILDING USE.</li> <li>FIRE ALARM SYSTEM BATTERIES AND CHARGER SHALL BE PROVIDED FOR STAND-BY BATTERY POWER CAPACITY PER THE STATE'S FIRE LAWS (LATEST EDITION). E.C. SHALL SUBMIT BATTERY CALCULATIONS FOR THE MODIFIED SYSTEM DOCUMENTING CODE COMPLIANCE.</li> <li>NEW NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANELS SHALL BE PROVIDED WITH INTEGRAL BATTERY BACK-UP PER STATE'S FIRE LAWS (LATEST EDITION).</li> </ol>

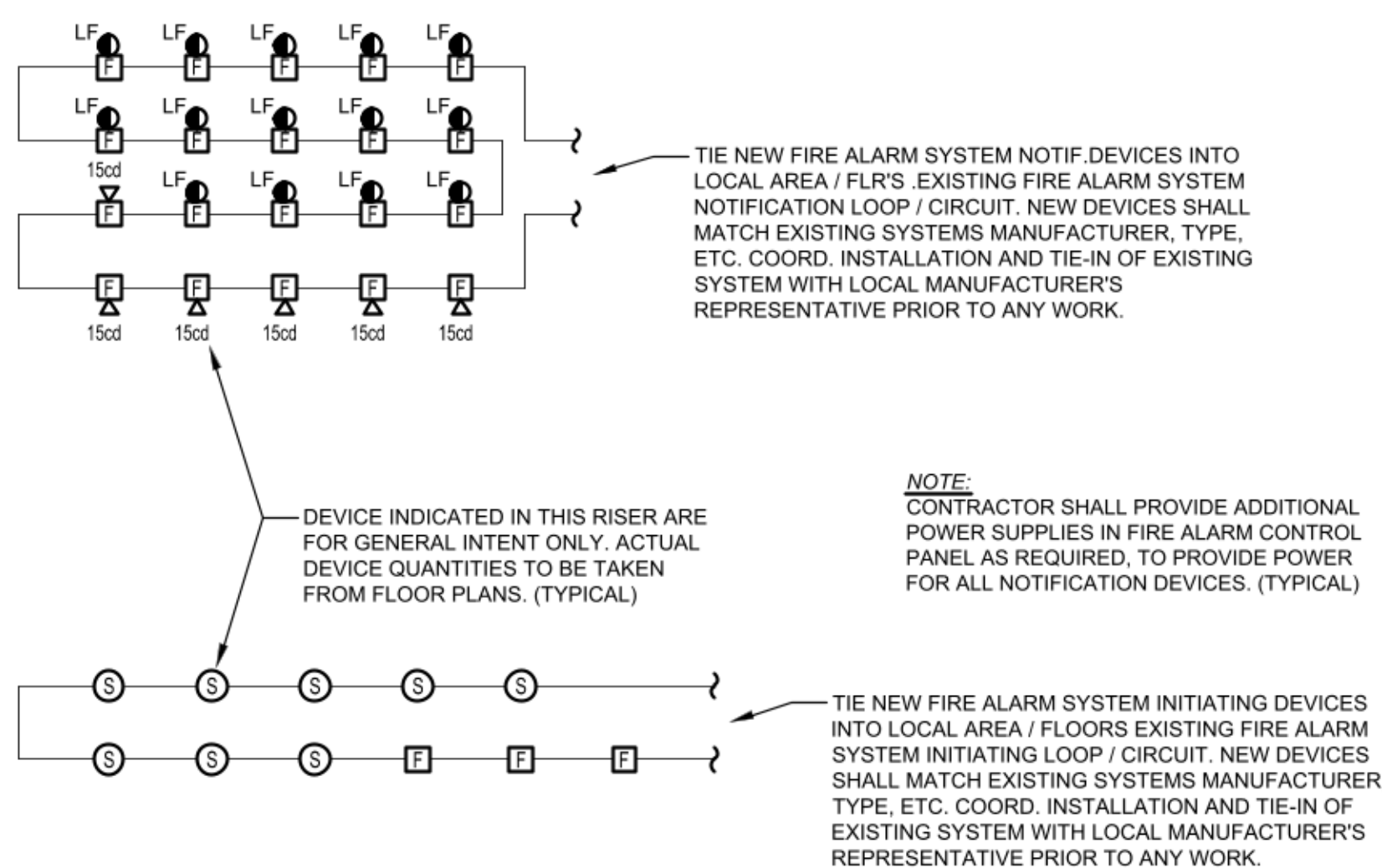
TYPICAL FIRE STOPPING NOTES
<p>A. GENERAL: FIRE STOPPING SHALL BE PROVIDED BY THIS CONTRACTOR FOR ALL FLOOR, CEILING AND FIRE RATED WALL PENETRATIONS FOR CONDUIT, SLEEVES AND/OR CABLING AS REQUIRED BY JOB CONDITIONS.</p> <p>B. THE CONTRACTOR SHALL PROVIDE A FIRE STOP SYSTEM IN ACCORDANCE WITH THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>THE SYSTEM SHALL CONSIST OF A WATERBASED SEALANT AND SUITABLE DAMMING MATERIALS (WHERE REQUIRED) AND BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.</li> <li>THE SEALANT SUPPLIED SHALL BE A TWO STAGED INTUMESCENT AND CAPABLE OF EXPANDING UP TO 8 TIMES ITS ORIGINAL VOLUME.</li> <li>THE SEALANT SUPPLIED SHALL CONTAIN NO ASBESTOS, NO FIBERGLASS, AND NO SOLVENTS NOT CORROSIVE MINERAL SALTS OF ANY KIND.</li> <li>THE SEALANT SHALL FORM A SURFACE CAPABLE OF BEING SANDED AND PAINTED TO MATCH SURROUNDING SURFACES AND SHALL BE IMPERVIOUS TO WATER WHEN DRY.</li> <li>THE FIRE STOP SYSTEM SHALL BE TESTED TO THE TIME/TEMPERATURE REQUIREMENTS OF ASTM E119 AND SHALL BE UL1479 (ASTM E814) AND CLASSIFIED FOR UP TO 3 HOURS.</li> <li>THE FIRE STOP SEALANT SHALL BE SPECSEAL SEALANT AS MANUFACTURED BY SPECIFIED TECHNOLOGIES, INC. OR APPROVED EQUAL.</li> <li>SPECIAL CARE SHALL BE TAKEN WITH ELECTRICAL SYSTEMS NOT TO COMPROMISE ANY OF THE BUILDING FIRE PARTITIONS, FLOORS, WALLS OR MEMBRANES. PROVIDE ALL FIRESTOPPING REQUIRED TO COMPLY WITH THE BUILDING CODE, THE ELECTRICAL CODE AND THE UL LISTING OF EACH ASSEMBLY. COORDINATE LOCATIONS AND TYPES OF MEMBRANES WITH ARCHITECT.</li> </ol>

TYPICAL DWELLING UNIT (F.A.) NOTES (THESE NOTES APPLY TO ALL ELECTRICAL SHEETS)
<ol style="list-style-type: none"> <li>ALL SMOKE ALARMS SHALL HAVE A INTEGRAL 90 dBA AUDIBLE ALARM.</li> <li>WHERE THERE ARE TWO (2) OR MORE SMOKE AND/OR CARBON MONOXIDE DETECTORS INSTALLED IN ONE (1) LIVING UNIT, THEY SHALL BE WIRED SO THAT THE ACTIVATION OF ANY DETECTOR SHALL CAUSE THE NOTIFICATION ALARM IN ALL OF THE DETECTORS WITHIN THE LIVING UNIT TO BE ACTIVATED WITH A MINIMUM RATING OF EIGHTY-FIVE (85) dBA AT TEN FEET (10') AND ADA STROBES WHERE APPLICABLE. (TYPICAL)</li> <li>ALL CARBON MONOXIDE DETECTORS SHALL BE PROVIDED WITH A VISIBLE INTERMITTENT OR STEADY "POWER ON" INDICATOR.</li> <li>ALL CARBON MONOXIDE DETECTORS SHALL BE MOUNTED ON THE CEILING AND UL LISTED FOR CEILING MOUNTING AND LOCATED NOT LESS THAN 12-INCHES FROM ANY WALL. (TYPICAL)</li> <li>ALL VISUAL (STROBE) DEVICES INSTALLED IN SLEEPING AREAS SHALL BE PERMANENTLY LOCATED 16-FEET MAXIMUM FROM THE PILLOW OR "HEAD OF THE BED" LOCATION, MEASURED HORIZONTALLY. DEVICES SHALL BE WALL MOUNTED LOCATED AT LEAST 24 INCHES BELOW THE CEILING AND SHALL HAVE A MINIMUM EFFECTIVE INTENSITY OF 177 CANDELA.</li> <li>IN ALL HANDICAP ACCESSIBLE (ADA) APARTMENTS CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE / CARBON MONOXIDE ALARMS WITH STROBE LIGHTS PER ADA GUIDELINES. IN ADDITION, PROVIDED ADA STROBE ONLY DEVICES PER THE PLANS CONNECTED TO THE SMOKE / CARBON MONOXIDE ALARMS.</li> </ol>

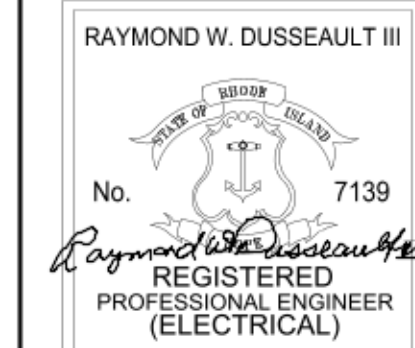


- NOTES:**
- E.C. SHALL PROVIDE CIRCUIT BREAKER "LOCK-ON" DEVICE FOR ALL CIRCUITS TO EMERGENCY BATTERY UNITS (EBU). (TYPICAL)
  - CONNECT UN-SWITCHED INTO 120V CIRCUIT OF ROOM/AREA BEING SERVED.
  - DETAIL IS TYPICAL TO ALL DRAWINGS, UON.

**TYPICAL EMERGENCY LIGHTING CONNECTION DETAIL**  
NOT TO SCALE



**"PARTIAL" FIRE ALARM RISER DIAGRAM**  
NOT TO SCALE



SHEET CONTENTS:  
Electrical -  
Legends & Notes

PROJECT #: 2123  
DATE: 12/15/2023  
REVISED DATE:

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023



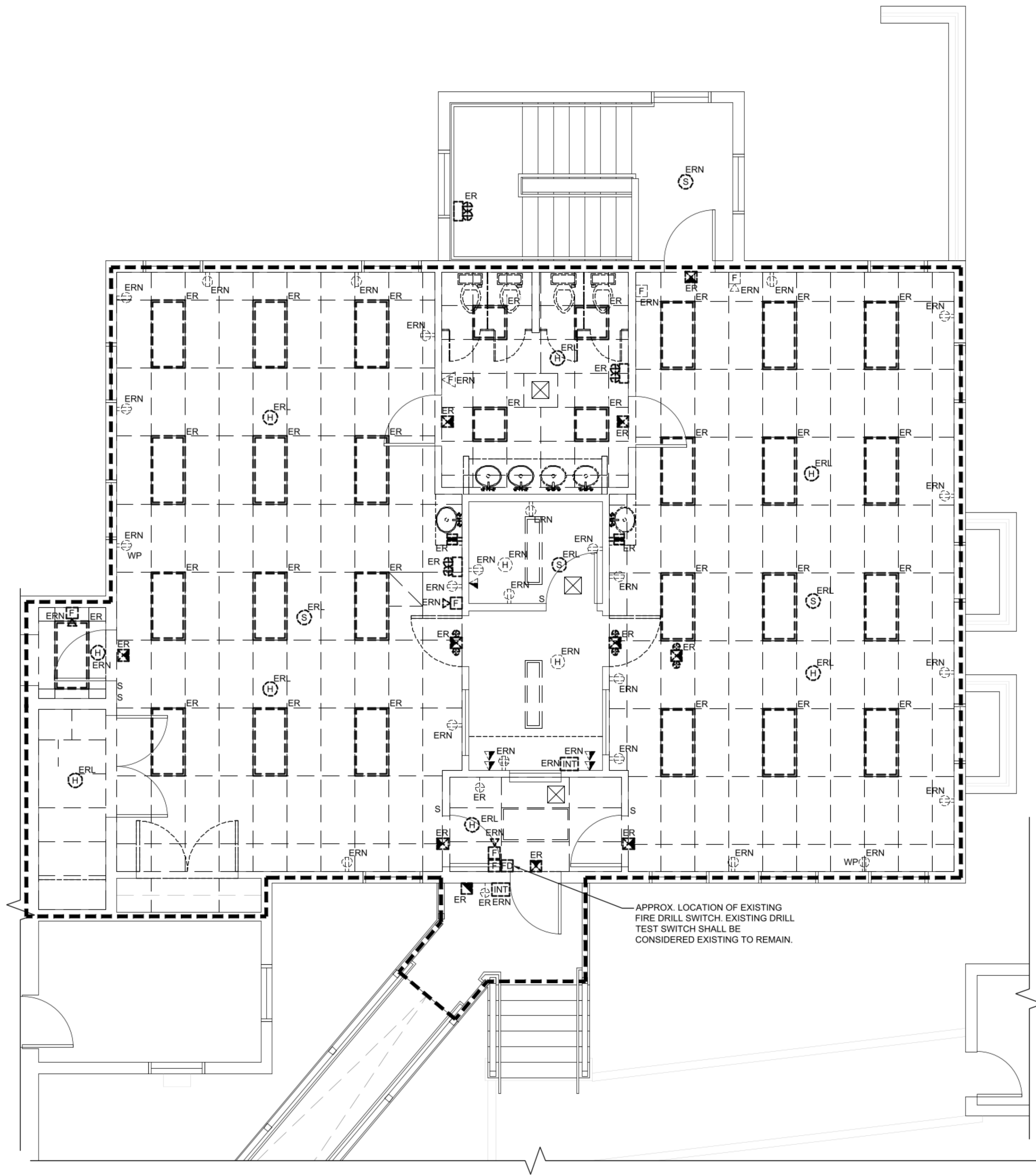
DEMOLITION ABBREVIATIONS	
SUBSCRIPT	DESCRIPTION
ER	INDICATES EXISTING ELECTRICAL DEVICE TO BE COMPLETELY REMOVED AS WELL AS ASSOCIATED WIRING. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE OF EQUIPMENT.
ERN	INDICATES EXISTING ELECTRICAL DEVICE TO REMAIN IN PLACE. E.C. SHALL ENSURE DEVICE IS PROTECTED AND FULLY OPERATIONAL UPON COMPLETION OF PROJECT. ANY DEVICE SCHEDULED TO REMAIN, NOT IN PROPERLY WORKING ORDER SHALL BE REPLACED IN KIND.
ERL	INDICATES EXISTING ELECTRICAL DEVICE TO BE REMOVED & RELOCATED, EXISTING WIRING / CIRCUITRY TO BE EXTENDED. ANY NEW WIRING & INSTALLATIONS REQUIRED TO RELOCATE EQUIPMENT SHALL MATCH EXISTING ELECTRICAL CHARACTERISTICS.
RE	INDICATES EXISTING ELECTRICAL DEVICE IN NEW LOCATION. ANY DEVICE SCHEDULED TO BE RELOCATED, NOT IN PROPERLY WORKING ORDER SHALL BE REPLACED IN KIND.

EXISTING FIRE ALARM SYSTEM TO REMAIN FULLY OPERATIONAL DURING INSTALLATION, TESTING & APPROVAL OF NEW FIRE ALARM SYSTEM. UPON COMPLETION AS INDICATED ON NEW FIRE ALARM SYSTEM. THIS CONTRACTOR SHALL REMOVE ALL COMPONENTS, DEVICES, WIRING, ETC. ASSOCIATED WITH THE EXISTING FIRE ALARM SYSTEM.

**MECHANICAL DEMOLITION NOTE**

IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO PROPERLY REMOVE ALL WIRING ASSOCIATED WITH DEMOLISHED MECHANICAL EQUIPMENT, BACK TO SOURCE AND DISPOSE OF EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR EXACT SCOPE OF WORK. (TYPICAL)

- | TYPICAL DEMOLITION NOTES |  |
|--------------------------|--|
| 1.                       | THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL OF THE ARCHITECTS AND OTHER TRADES DRAWINGS TO VERIFY ALL AREAS OF RENOVATION AND TO GET A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED BY THIS PROJECT.  |
| 2.                       | PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. RENOVATION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER.  |
| 3.                       | COORDINATE ALL WORK WITH THE BUILDING OWNER 10 DAYS PRIOR TO DISRUPTION TO ANY POWER.  |
| 4.                       | DISCONNECT AND REMOVE ALL FIXTURES, WIRING DEVICES, CONDUIT AND FITTINGS, WIRING & CABLE, FIRE ALARM DEVICES/COMPONENTS, HANGERS, SUPPORTS, WIREWAYS, AND ALL OTHER ELECTRICAL COMPONENTS MADE OBSOLETE BY THIS PROJECT.   |
| 5.                       | REFER TO ALL CONSTRUCTION DOCUMENTS TO GAIN A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED.  |
| 6.                       | ALL HVAC UNITS SCHEDULED TO BE REMOVED OR RE-LOCATED SHALL BE DONE SO BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND MAKE-SAFE FOR REMOVAL.  |
| 7.                       | TEMPORARY WALL OPENINGS AND/OR MODIFICATIONS REQUIRED FOR REMOVAL/INSTALLATION OF EQUIPMENT SHALL BE PROVIDED AS NEEDED AND COORDINATED WITH THE GENERAL CONTRACTOR.   |
| 8.                       | CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING, BUT NOT LIMITED TO, REMOVAL OF ELECTRICAL ITEMS INDICATED TO BE REMOVED AND ITEMS MADE OBSOLETE BY THE WORK. THE OWNER RESERVES THE OPTION OF SALVAGE RIGHTS TO DEMOLISHED MATERIAL AND REMOVED EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO OBTAIN A LIST OF MATERIALS AND REMOVED EQUIPMENT TO BE TURNED OVER TO THE OWNER. ALL OTHER MATERIAL AND REMOVED EQUIPMENT NOT BEING SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.  |
| 9.                       | PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED. PROTECT THE ELECTRICAL WORK AND THE WORK OF OTHERS IN A MANNER BEST SUITED TO THE PARTICULAR CASE. CORRECT ANY DAMAGE DONE TO ANY WORK AT NO ADDITIONAL COST.   |
| 10.                      | PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS.  |
| 11.                      | MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.  |
| 12.                      | PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS. <ul style="list-style-type: none"> <li>a. <b>EXISTING ELECTRICAL SERVICE:</b> MAINTAIN EXISTING SYSTEM IN SERVICE COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AND ARCHITECT/ENGINEER AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA AS REQUIRED.</li> <li>b. <b>EXISTING FIRE ALARM SYSTEM:</b> MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL THE MODIFIED/EXPANDED SYSTEM IS TESTED AND ACCEPTED BY THE FIRE DEPARTMENT. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER, ARCHITECT/ENGINEER AND LOCAL FIRE DEPARTMENT AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA AS REQUIRED OR PROVIDE A "FIRE-WATCH" SYSTEM COORDINATED WITH THE LOCAL FIRE DEPARTMENT.</li> <li>c. <b>EXISTING TELEPHONE &amp; DATA SYSTEMS:</b> MAINTAIN EXISTING SYSTEM IN SERVICE COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER, ARCHITECT/ENGINEER AND TELEPHONE UTILITY COMPANY AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.</li> </ul> |
| 13.                      | THESE DRAWINGS HAVE BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION AND ARE NOT INTENDED TO LIMIT THE SCOPE OF THE WORK. THE ELECTRICAL CONTRACTOR MAY ENCOUNTER HIDDEN OR COVERED CONDITIONS, NOT INDICATED IN THESE DOCUMENTS, REQUIRING THE ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL WORK FOR THE COMPLETION OF HIS OR HER CONTRACT. IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE PRIOR TO BIDDING AND VERIFIED THE INFORMATION SUPPLIED HEREIN.  |
| 14.                      | PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, LIGHT FIXTURES, ETC. WHICH ARE TO REMAIN & TO PREVENT DAMAGE DURING ALL CONSTRUCTION PHASES  |



ADMINISTRATION BUILDING - ELECTRICAL DEMOLITION  
PART. FIRST FLOOR

1 1/4" = 1'-0"

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

Renovations for:  
**PHA Galego Court  
Administration Building  
& Building 200**  
483 Weeden Street  
Pawtucket, RI 02860

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

RAYMOND W. DUSSEAU III  
No. 7139  
REGISTERED  
PROFESSIONAL ENGINEER  
(ELECTRICAL)

ENGINEERING DESIGN SERVICES  
INCORPORATED  
100 WEST 103RD STREET  
PAWTUCKET, RI 02860  
TEL: 401-861-7139 FAX: 401-861-7139

SHEET CONTENTS:  
Electrical -  
Administration Building  
Demolition Plan

PROJECT #: 2123

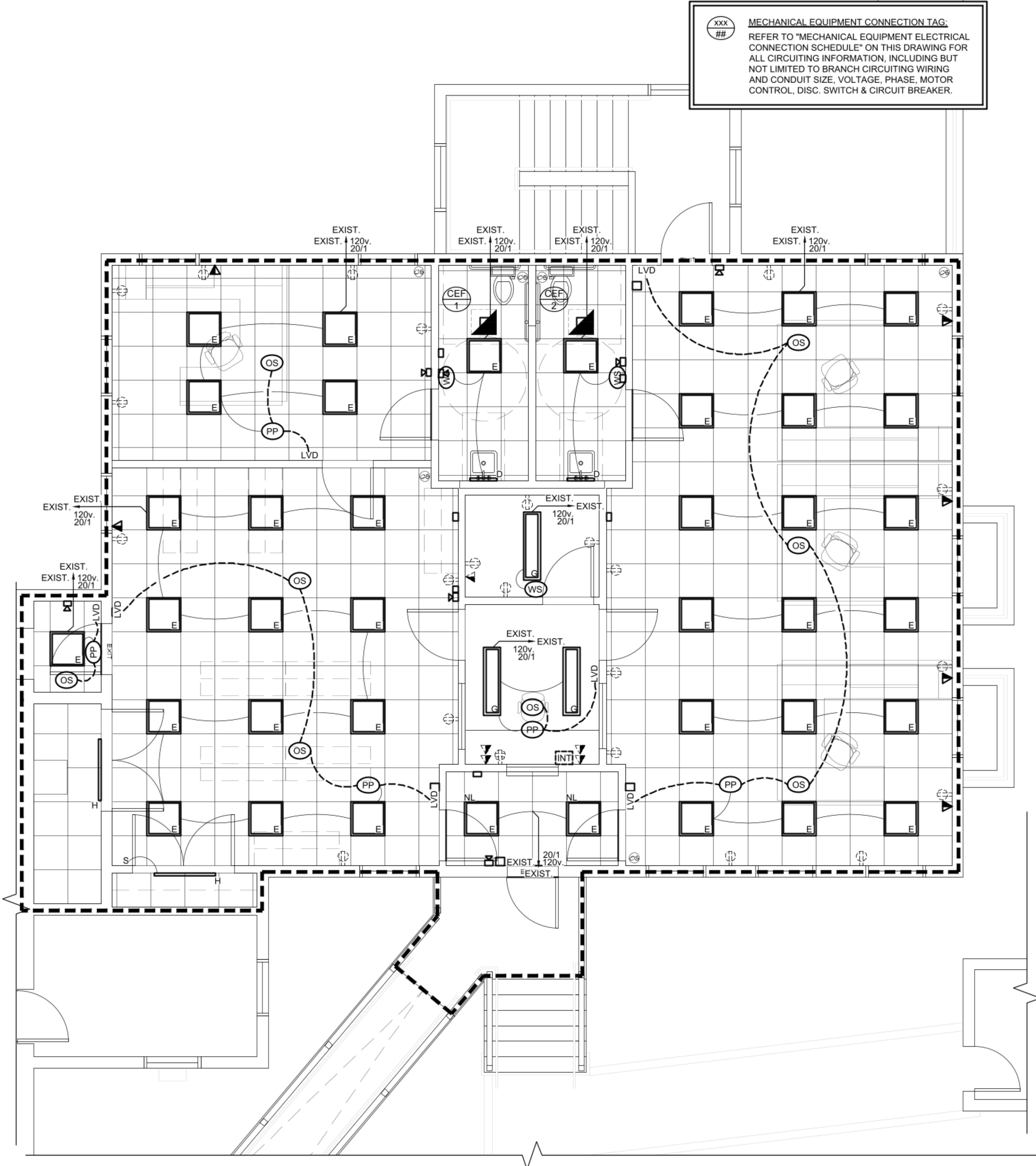
DATE: 12/15/2023  
REVISED DATE:

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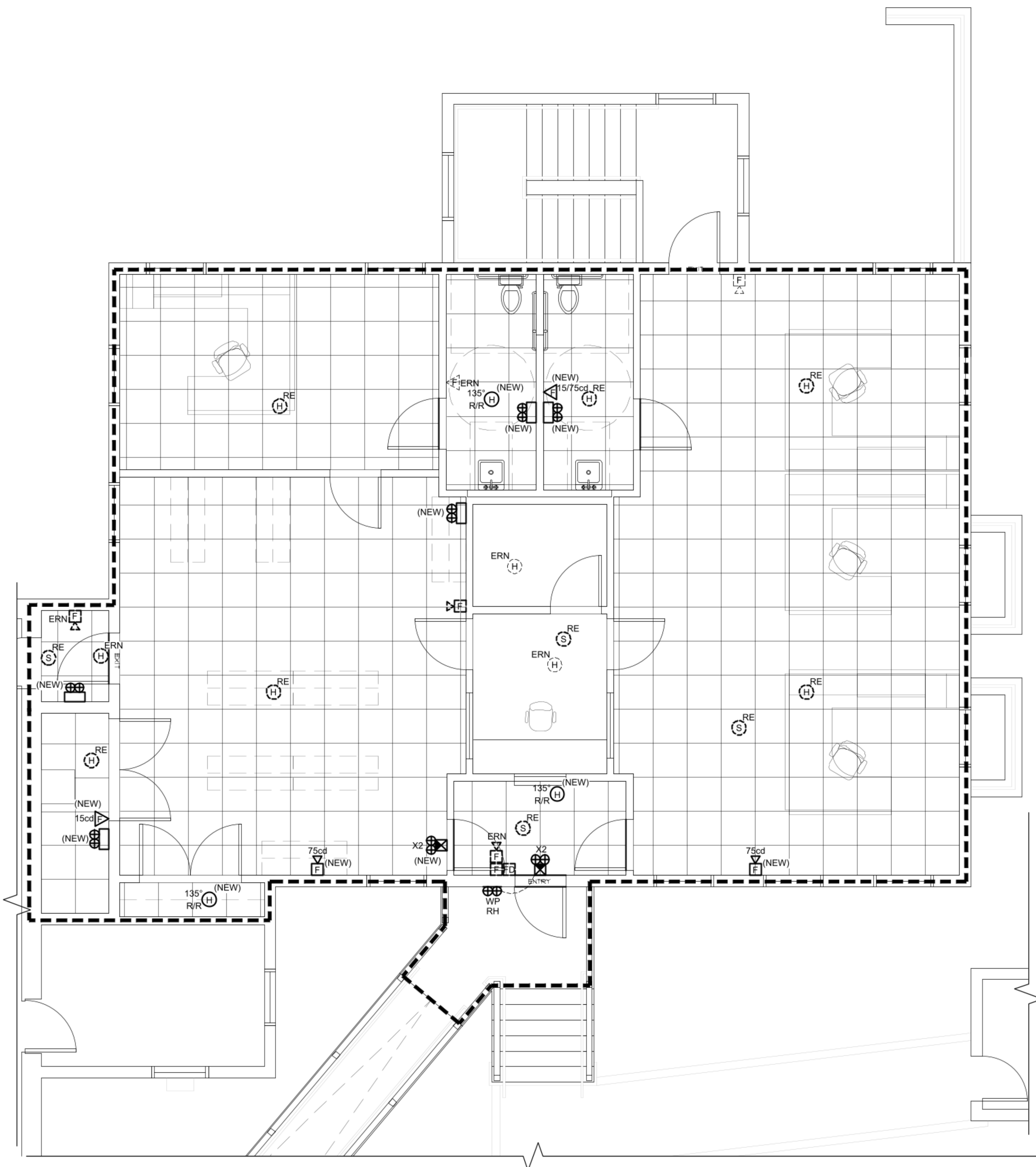


MECHANICAL EQUIPMENT CONNECTION TAG.  
REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" ON THIS DRAWING FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC. SWITCH & CIRCUIT BREAKER.



ADMINISTRATION BUILDING - ELECTRICAL FLOOR PLAN  
PART, FIRST FLOOR

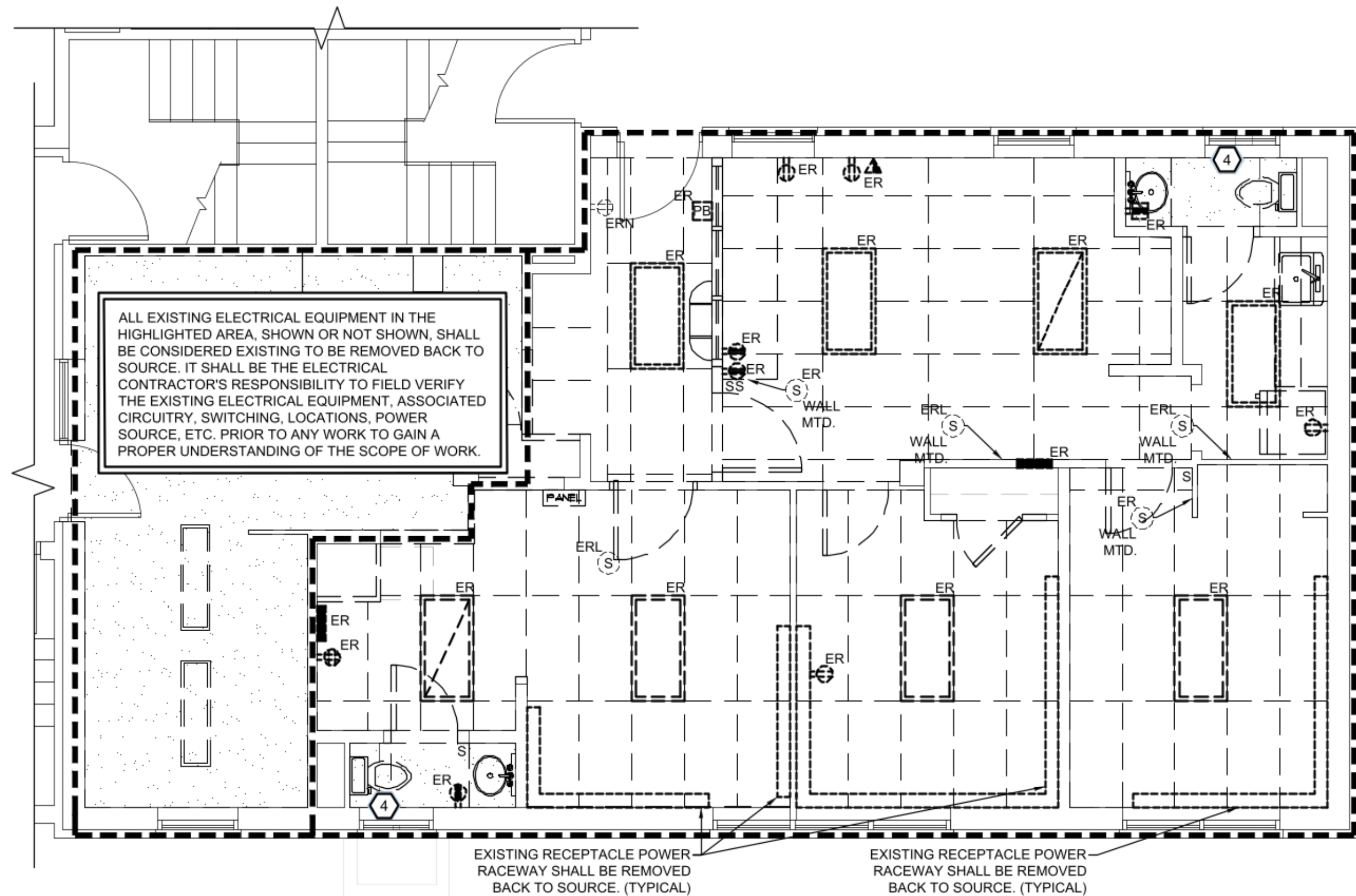
1 1/4" = 1'-0"



ADMINISTRATION BUILDING - LIFE SAFETY FLOOR PLAN  
PART, FIRST FLOOR

2 1/4" = 1'-0"



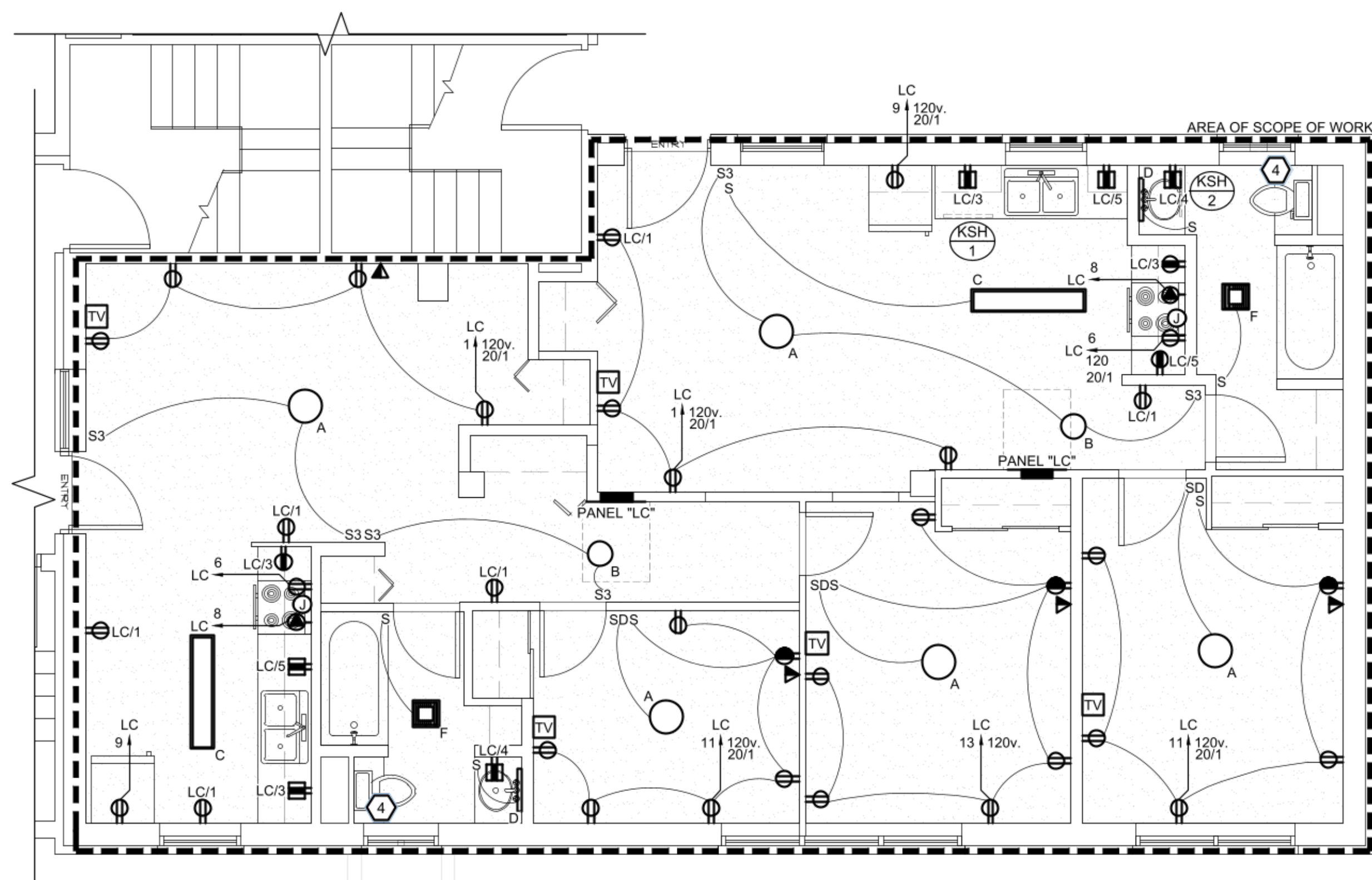


**BUILDING 200 - DEMOLITION**  
PART, FIRST FLOOR

1 1/4" = 1'-0"

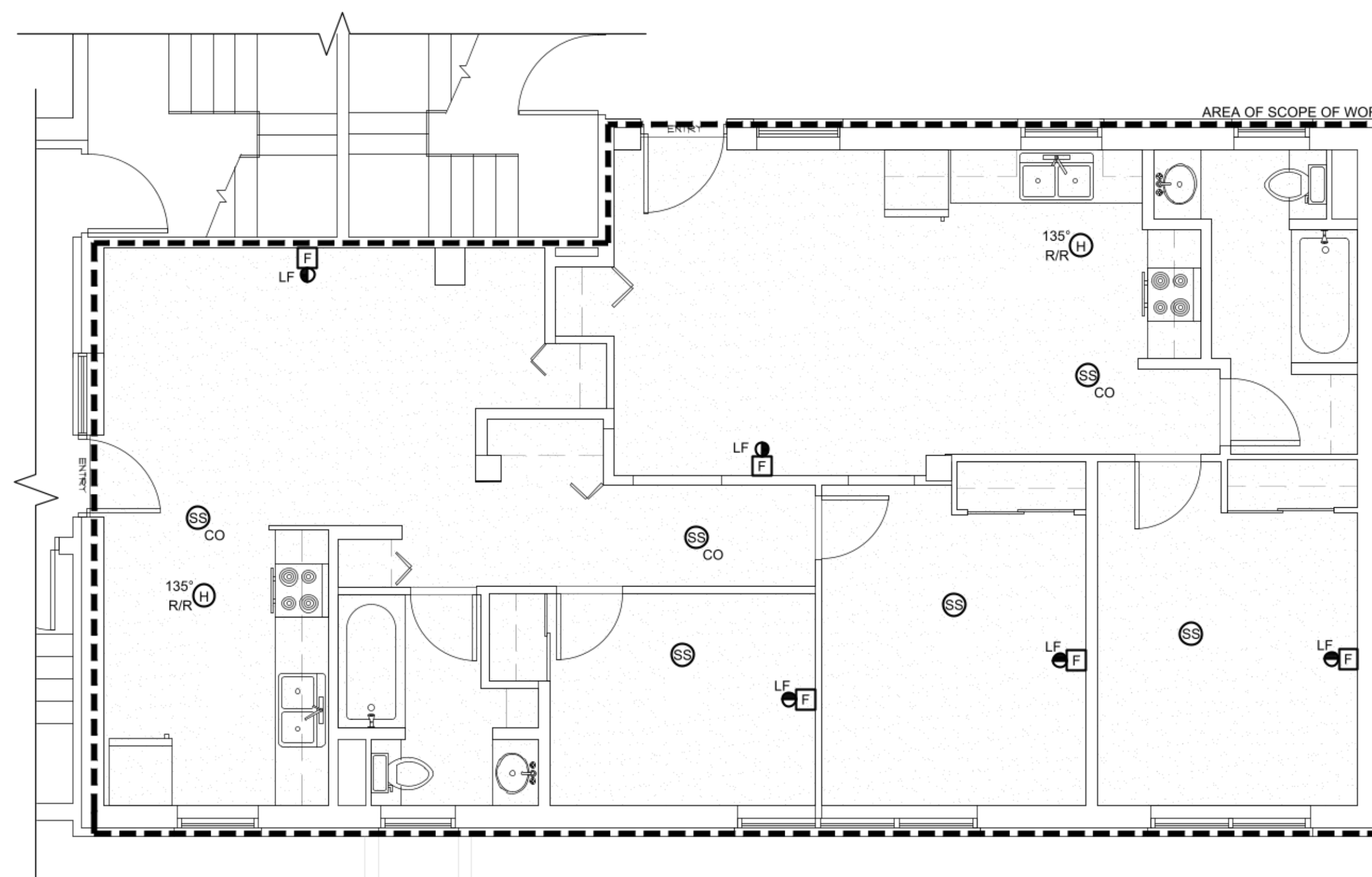
**ELECTRICAL KEYED NOTES:**

- 1 ELECTRICAL CONTRACTOR SHALL COORDINATE THE FINAL SELECTION AND LOCATION OF ALL LIGHTING FIXTURES WITH THE ARCH. AND OWNER PRIOR TO ANY INSTALLATION.
- 2 IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL EXISTING PANELBOARDS.
- 3 ELECTRICAL CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH TRADE SPECIFIC CONTRACTORS AND PLANS/DRAWINGS.
- 4 ELECTRICAL CONTRACTOR SHALL EXTEND FEEDERS FROM EXISTING EXHAUST FANS TO NEW PANELBOARDS, "LC." E.C. SHALL EXTEND EXISTING CIRCUITRY AS NECESSARY TO EACH UNIT'S RESPECTIVE PANELBOARD. E.C. TO FIELD VERIFY EXISTING CIRCUITRY AND MATCH EXISTING ELECTRICAL CHARACTERISTICS. FIELD VERIFY ROUTING, CIRCUITRY, CONNECTION MEANS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS.



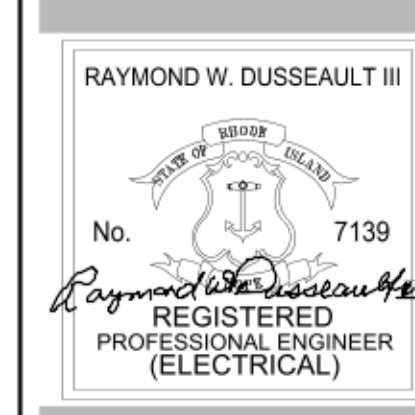
**BUILDING 200 - PROPOSED**  
PART, FIRST FLOOR

2 1/4" = 1'-0"



**BUILDING 200 - PROPOSED - LIFE SAFETY**  
PART, FIRST FLOOR

3 1/4" = 1'-0"



SHEET CONTENTS:  
Electrical -  
Building 200 Floor Plans

PROJECT #: 2123  
DATE: 12/15/2023  
REVISED DATE:

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

**E1.1**

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(PANEL / SWITCHBOARD / SERVICE) FEEDER SIZING		
AMPERES	POLES	TYPE (XHHW) COPPER CONDUCTORS
30A	3	4#10 + 1#8 GND. IN 3/4" CONDUIT
60A	2	3#4 + 1#8 GND. IN 1" CONDUIT
60A	3	4#4 + 1#8 GND. IN 1-1/4" CONDUIT
100A	2	3#1 + 1#6 GND. IN 1-1/4" CONDUIT
100A	3	4#1 + 1#6 GND. IN 1-1/2" CONDUIT
125A, 150A	2	3#1/0 + 1#6 GND. IN 1-1/2" CONDUIT
125A, 150A	3	4#1/0 + 1#6 GND. IN 2" CONDUIT
200A	2	3#3/0 + 1#4 GND. IN 2" CONDUIT
200A	3	4#3/0 + 1#4 GND. IN 2" CONDUIT
225A	3	4#4/0 + 1#2 GND. IN 2-1/2" CONDUIT
300A	3	4#350kcmil + 1#2 GND. IN 3" CONDUIT
400A	3	4#600kcmil + 1#1/0 GND. IN 3-1/2" CONDUIT
600A	3	2 SETS OF: (4#350kcmil + 1#2 GND.) IN TWO (2) 3" CONDUITS
800A	3	2 SETS OF: (4#600kcmil + 1#1/0 GND.) IN TWO (2) 3-1/2" CONDUITS
1000A	3	3 SETS OF: (4#400kcmil + 1#1/0 GND.) IN THREE (3) 3" CONDUITS
1200A	3	3 SETS OF: (4#600kcmil + 1#1/0 GND.) IN THREE (3) 3-1/2" CONDUITS
1600A	3	4 SETS OF: (4#600kcmil + 1#1/0 GND.) IN FOUR (4) 3-1/2" CONDUITS
2000A	3	5 SETS OF: (4#600kcmil + 1#1/0 GND.) IN FIVE (5) 3-1/2" CONDUITS
2500A	3	6 SETS OF: (4#600kcmil + 1#1/0 GND.) IN SIX (6) 3-1/2" CONDUITS
3000A	3	7 SETS OF: (4#700kcmil + 1#1/0 GND.) IN SEVEN (7) 4" CONDUITS

(EQUIPMENT) SIZING CIRCUIT		
AMP / POLE PANEL / SERVICE	POLES	TYPE (XHHW) COPPER CONDUCTORS
15A, 20A	1 (or) 2	2#12 + 1#12 GND. IN 3/4" CONDUIT
15A, 20A	3	3#12 + 1#12 GND. IN 3/4" CONDUIT
25A, 30A	1 (or) 2	2#10 + 1#10 GND. IN 3/4" CONDUIT
25A, 30A	3	3#10 + 1#10 GND. IN 3/4" CONDUIT
35A, 40A	1 (or) 2	2#8 + 1#10 GND. IN 3/4" CONDUIT
35A, 40A	3	3#8 + 1#10 GND. IN 3/4" CONDUIT
45A, 50A, 55A	1 (or) 2	2#6 + 1#10 GND. IN 3/4" CONDUIT
45A, 50A, 55A	3	3#6 + 1#10 GND. IN 3/4" CONDUIT
60A	2	2#4 + 1#10 GND. IN 1" CONDUIT
60A	3	3#4 + 1#10 GND. IN 1" CONDUIT
70A	3	3#4 + 1#8 GND. IN 1" CONDUIT
80A	3	3#3 + 1#8 GND. IN 1-1/4" CONDUIT
90A	3	3#2 + 1#8 GND. IN 1-1/4" CONDUIT
100A, 110A	3	3#1 + 1#6 GND. IN 1-1/4" CONDUIT
125A, 150A	3	3#1/0 + 1#6 GND. IN 1-1/2" CONDUIT
175A	3	3#2/0 + 1#6 GND. IN 2" CONDUIT
200A	3	3#3/0 + 1#4 GND. IN 2" CONDUIT

**MECHANICAL EQUIPMENT CONNECTION TAG:**  
 REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" ON THIS DRAWING FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC. SWITCH & CIRCUIT BREAKER.

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE																
XXX # ITEM No.	DESCRIPTION	LOCATION	EQUIPMENT CHARACTERISTICS					CIRCUIT	CIRCUIT BREAKER (RACK TYPE)	FEEDER & CONDUIT	DISCONNECT SWITCH				MANUAL MOTOR CONTROLLER	REMARKS
			VOLTS	PH	FREQ.	(KW)/HP	FLA				SIZE	FUSE	POLES	NEMA		
KSH-1	KICK SPACE HEATER	(SEE PLANS)	120	1	60	-	0.6	LC / 7	15A/1P	2#12 + 1#12 GND. IN 3/4" C.	-	-	-	-	PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES.	SEE BELOW
KSH-2	KICK SPACE HEATER	(SEE PLANS)	120	1	60	-	0.6			2#12 + 1#12 GND. IN 3/4" C.	-	-	-	-	PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES.	SEE BELOW
CEF-1	CEILING EXHAUST FAN	(SEE PLANS)	120	1	60	-	-	AREA'S LTG. CIRCUIT	EXISTING	2#12 + 1#12 GND. IN 3/4" C.	-	-	-	-	PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES.	E. C. TO COORDINATE THAT ALL FANS SHALL BE RUN CONTINUOUSLY AND MOTOR SPEED SHALL BE TOGGLED WITH PROVIDED WALL SWITCH. COORDINATE EXACT MEANS OF OPERATION WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER TO GAIN A PROPER UNDERSTANDING OF THE SCOPE OF WORK.
CEF-2	EXIST. CEILING EXHAUST FAN	(SEE PLANS)	120	1	60	-	-	AREA'S LTG. CIRCUIT	EXISTING	EXTEND EXISTING FEEDERS AS NECESSARY	-	-	-	-	PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERRIDES. (IF NOT EXISTING)	

- NOTES:**
- COORDINATE WITH HVAC CONTRACTOR & DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLING ELECTRICAL COMPONENTS.
  - COORDINATE WITH PLUMBING CONTRACTOR & DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING EQUIPMENT PRIOR TO INSTALLING ELECTRICAL COMPONENTS.
  - ALL DISCONNECTING MEANS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
  - ALL STARTERS, VFD'S ETC. SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE ALL HVAC EQUIPMENT.
  - ALL HVAC CONTROL WIRING SHALL BE PROVIDED BY OTHERS.

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG No.	MOUNTING	LAMPING			VOLTAGE	DESCRIPTION / REMARKS	
				TYPE	WATTAGE	QUANTITY			
A	LITHONIA LIGHTING	FMSATL 16 20830XX	SURFACE	LED	23.1	-	120	LED SURFACE MOUNTED 16" ROUND FIXTURE. SEE BELOW. E.C. TO COORDINATE FINAL FIXTURE SELECTION WITH OWNER/ARCHITECT.	
B	PROGRESS LIGHTING	P7249-0930K9	SURFACE	LED	21.7	-	120	LED SURFACE MOUNTED 10-3/8" ROUND FIXTURE. SEE BELOW. E.C. TO COORDINATE FINAL FIXTURE SELECTION WITH OWNER/ARCHITECT.	
C	LITHONIA LIGHTING	FMFL 30840 XX	SURFACE	LED	39.0	-	120	SURFACE MOUNTED 4" LINEAR FIXTURE. SEE BELOW. E.C. TO COORDINATE FINAL FIXTURE SELECTION WITH OWNER/ARCHITECT.	
D	PROGRESS LIGHTING	P300223-009-30	SURFACE	LED	22.0	-	120	24" WALL MOUNTED SCNCE FIXTURE. SEE BELOW. E.C. TO COORDINATE FINAL FIXTURE SELECTION WITH OWNER/ARCHITECT.	
E	LITHONIA LIGHTING	CPX 2X2 AL07 80CRI SWW7 XX MVOLT STAKS 2X2 AL03 SWW7 3500K	RECESSED	LED	27.7	-	120	SEE BELOW. E.C. TO COORDINATE FINAL FIXTURE SELECTION WITH OWNER/ARCHITECT.	
F	PROGRESS LIGHTING	P810015-030-30	RECESSED	LED	-	-	120	BATHROOM SURFACE MOUNTED LIGHT FIXTURE.	
G	LITHONIA LIGHTING	BLWP4 48LHE ADSM EZ1 LP835	SURFACE	LED	-	-	120	SURFACE MOUNTED 4" STRIP FIXTURE. SEE BELOW. E.C. TO COORDINATE FINAL FIXTURE SELECTION WITH OWNER/ARCHITECT.	
H	LITHONIA LIGHTING	CSS L48 AL03 347 SWW3 80CRI [CS ALL OPTIONS]	SURFACE	LED	-	-	120	SEE BELOW. E.C. TO COORDINATE FINAL FIXTURE SELECTION WITH OWNER/ARCHITECT.	

- NOTES:**
- PROVIDE ACCESSORIES AND MOUNTING HARDWARE AS REQUIRED FOR ALL FIXTURES.
  - ALL FIXTURE/ACCESSORY COLORS NOT INDICATED ON DRAWING'S SHALL BE SELECTED BY ARCHITECT.
  - PROVIDE LAMPING FOR ALL FIXTURES UNLESS LAMPING IS INCLUDED WITH FIXTURE AS INDICATED IN SCHEDULE.
  - PROVIDE TYPICAL UNIT MOCK UP FOR LIGHT FIXTURE HANGING HEIGHTS AND EXPOSED ELECTRICAL CONDUIT LAYOUT TO BE REVIEWED BY ARCHITECT.
  - FIXTURE TO BE WIRED TO PHOTO CELL AND TIME CLOCK PROVIDED BY G.C.
  - ALL LIGHT FIXTURES WITH INCANDESCENT LAMPING SHALL BE PROVIDED W/ CFL/LED LAMP IN LIEU OF INCANDESCENT LAMP.
  - CBA = COLOR TO BE SELECTED BY ARCHITECT (THE ELECTRICAL CONTRACTOR SHALL VERIFY COLOR & FINISH WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS.

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CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
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Renovations for:  
**PHA Galego Court  
Administration Building  
& Building 200**  
483 Weeden Street  
Pawtucket, RI 02860



SHEET CONTENTS:  
Electrical -  
Schedules & Details

PROJECT #: 2123  
DATE: 12/15/2023  
REVISED DATE:

**E2.0**

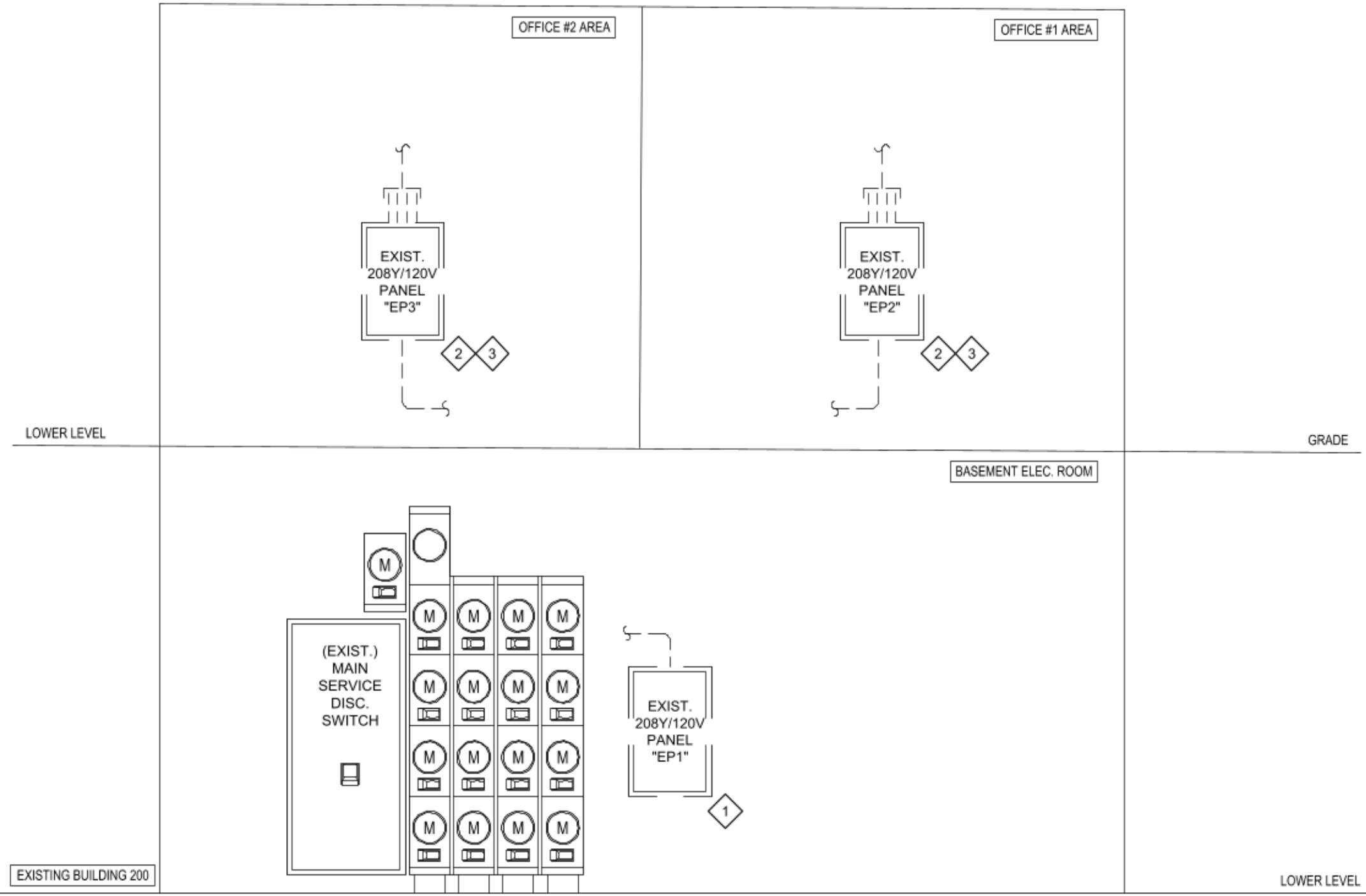


### BRANCH CIRCUIT PANELBOARD SCHEDULE

DESIGNATION	BUS AMPS	MAIN	LOCATION	VOLTAGE	PH	BREAKERS					TOTAL POLES	MOUNTING	REMARKS
						USED			SPARE				
						1-POLE	2-POLE	3-POLE	1-POLE	2-POLE			
EP1	EXISTING	(BLDG. 200 BASEMENT)	EXISTING	-	-	-	-	-	-	-	-	SURFACE	EXISTING "POWER" PANEL TO REMAIN. SHOWN FOR REFERENCE. (NO WORK REQUIRED)
EP2	EXISTING	(SEE PLANS)	EXISTING	-	-	-	-	-	-	-	12	SURFACE	(EXISTING) PANEL BOARD TO BE COMPLETELY REMOVED. EXISTING FEEDER TO BE PULLED BACK TO SOURCE. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT PANEL LOCATIONS, ELECTRICAL CHARACTERISTICS AND REMOVAL REQUIREMENTS.
EP3	EXISTING	(SEE PLANS)	EXISTING	-	-	-	-	-	-	-	12	SURFACE	(EXISTING) PANEL BOARD TO BE COMPLETELY REMOVED. EXISTING FEEDER TO BE PULLED BACK TO SOURCE. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT PANEL LOCATIONS, ELECTRICAL CHARACTERISTICS AND REMOVAL REQUIREMENTS.
EP4	EXISTING	ADMIN. BLDG BASEMENT)	EXISTING	-	-	-	-	-	-	-	42	SURFACE	EXISTING "POWER" PANEL TO REMAIN. SHOWN FOR REFERENCE. (PROVIDE BREAKERS AS SHOWN)
LC (TYP. FOR 2)	125A	MLO	(SEE PLANS)	120/240V	1	UNLESS OTHERWISE SPECIFIED, E.C. SHALL ACQUIRE ALL BREAKER COUNTS FROM PANEL SCHEDULES ON THIS DRAWING.					24	SURFACE	BRANCH CIRCUIT (TENANT) POWER PANEL BOARD. (22K A.I.C. RATING)

**NOTES:**

1. ALL PANELBOARDS SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE ON THE DOOR INDICATING THE PANELBOARD DESIGNATION, VOLTAGE, RATING OF MCB OR MAIN LUGS AND SOURCE OF SUPPLY. ENGRAVED PLATE SHALL BE AS CALLED FOR IN THE SPECIFICATIONS.
2. ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPED (HAND WRITTEN IS NOT ALLOWED) CIRCUIT DIRECTORY INDICATING THE LOAD FED BY EACH CIRCUIT BREAKER AND ITS LOCATION IN THE BUILDING.
3. ALL PANELBOARDS SHALL BE PROVIDED WITH FULL SIZE EQUIPMENT GROUND AND NEUTRAL BUSES ON EACH SIDE OF THE ENCLOSURE SO AS TO PROVIDE A SEPARATE EQUIPMENT GROUND AND NEUTRAL TERMINAL FOR EACH BRANCH CIRCUIT.
4. SPACES SHALL BE PROVIDED WITH ALL REQUIRED BUSSING, SUPPORTS, CONNECTORS, ETC.. NECESSARY FOR FUTURE INSTALLATION OF CIRCUIT BREAKERS.
5. FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FIVE (5) EMPTY 1" EMT CONDUITS INSTALLED UP TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.
6. ALL PANELBOARDS SHALL HAVE HINGED "DOOR-IN-DOOR" TYPE COVERS.
7. REFER TO THE SPECIFICATIONS FOR ALL OTHER PANELBOARD REQUIREMENTS.
8. ALUMINUM BUSSING "SHALL NOT" BE AN ACCEPTABLE SUBSTITUTE FOR COPPER BUSSING.
9. SERIES RATED EQUIPMENT "SHALL NOT" BE APPROVED.
10. CONFIRM BREAKER COUNTS WITH FLOOR PLANS.



**EXISTING POWER RISER DIAGRAM**  
NOT TO SCALE

**POWER RISER NOTES**

1. EXISTING PANEL BOARD FEEDERS TO REMAIN, SHOWN FOR REFERENCE, E.C. SHALL VERIFY EXACT CONDITIONS IN THE FIELD. (NO WORK REQUIRED.)
2. E.C. SHALL REFER TO DWG. "POWER RISER NOTES" FOR PANELBOARD INFORMATION ON THE PROVIDED SCHEDULE.
3. IN PROPOSED NEW WORK SCOPE, ELECTRICAL CONTRACTOR SHALL PROVIDE TWO (2) NEW 100A/2P FOR NEW PANELBOARDS, IN LIEU OF EXISTING 60A/2P BREAKERS. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO REMOVE EXISTING PANELBOARDS, "EP2" AND "EP3", BACK TO SOURCE. E.C. SHALL FIELD VERIFY THE ASSOCIATED SOURCE, METER, DISCONNECT SWITCH, ETC. TO GAIN A PRIOR UNDERSTANDING OF THE SCOPE OF WORK PRIOR TO ANY DEMOLITION.
4. IT SHALL BE THE E.C.'S RESPONSIBILITY TO FIELD VERIFY ALL ELECTRICAL EQUIPMENT, IN OR NOT IN THE SCOPE OF WORK SUCH AS: PANELBOARDS, METERS, FEEDERS, BREAKERS, ETC. PRIOR TO BIDDING OR BEGINNING ANY DEMOLITION. ALL ASSOCIATED ELECTRICAL EQUIPMENT, SHOWN OR NOT SHOWN, ASSOCIATED WITH ALL PANELBOARDS BEING REMOVED. THE CORRESPONDING BREAKER FOR THE PANELBOARD(S) BEING REMOVED SHALL BE LEFT AS A SPARE.
5. THE FOLLOWING DIAGRAM IS DRAWN FOR INTENT PURPOSES ONLY. ALL EXISTING ELECTRICAL EQUIPMENT, SHOWN OR NOT SHOWN, SHALL BE LOCATED AND FIELD VERIFIED BY THE E.C. E.C. SHALL COORDINATE WITH THE "NATIONAL ELECTRIC CODE" (NEC) THAT ALL PROPOSED WORK MEETS ELECTRICAL REQUIREMENTS.

**"POWER RISER" NOTES**

1. ELECTRICAL CONTRACTOR PROVIDE A NEW 100A/2P BREAKER (AND UTILITY METER IF REQUIRED) FOR NEWLY PROPOSED LOAD CENTERS IN LIEU OF EXISTING 60A/2P BREAKERS. E.C. SHALL FIELD VERIFY EXACT METER AND MAIN BREAKER LOCATION PRIOR TO ANY WORK TO GAIN A PROPER UNDERSTANDING OF THE SCOPE OF WORK.
2. CONTRACTOR SHALL INSTALL FEEDERS FOR A 100A LOADCENTER(S), "LC", CONSISTING OF: 3#1 + 1#6 GND. IN 1-1/4" CONDUIT IN ACCORDANCE WITH THE "NATIONAL ELECTRIC CODE" (NEC). THIS CONTRACTOR SHALL CONSULT WITH EXISTING SWITCHGEAR MANUFACTURER'S REPRESENTATIVE ON MEANS AND METHODS TO MAINTAIN UL LISTINGS. FIELD VERIFY LENGTH, ROUTING & INSTALLATION.
3. E.C. TO REFER TO LOADCENTER SCHEDULE FOR FURTHER DETAILS. ALL BRANCH, FIELD VERIFY LENGTH, ROUTING & INSTALLATION.
4. THE FOLLOWING DIAGRAM IS DRAWN FOR INTENT PURPOSES ONLY. ALL EXISTING ELECTRICAL EQUIPMENT, SHOWN OR NOT SHOWN, SHALL BE LOCATED AND FIELD VERIFIED BY THE E.C. E.C. SHALL COORDINATE WITH THE "NATIONAL ELECTRIC CODE" (NEC) THAT ALL PROPOSED WORK MEETS ELECTRICAL REQUIREMENTS.

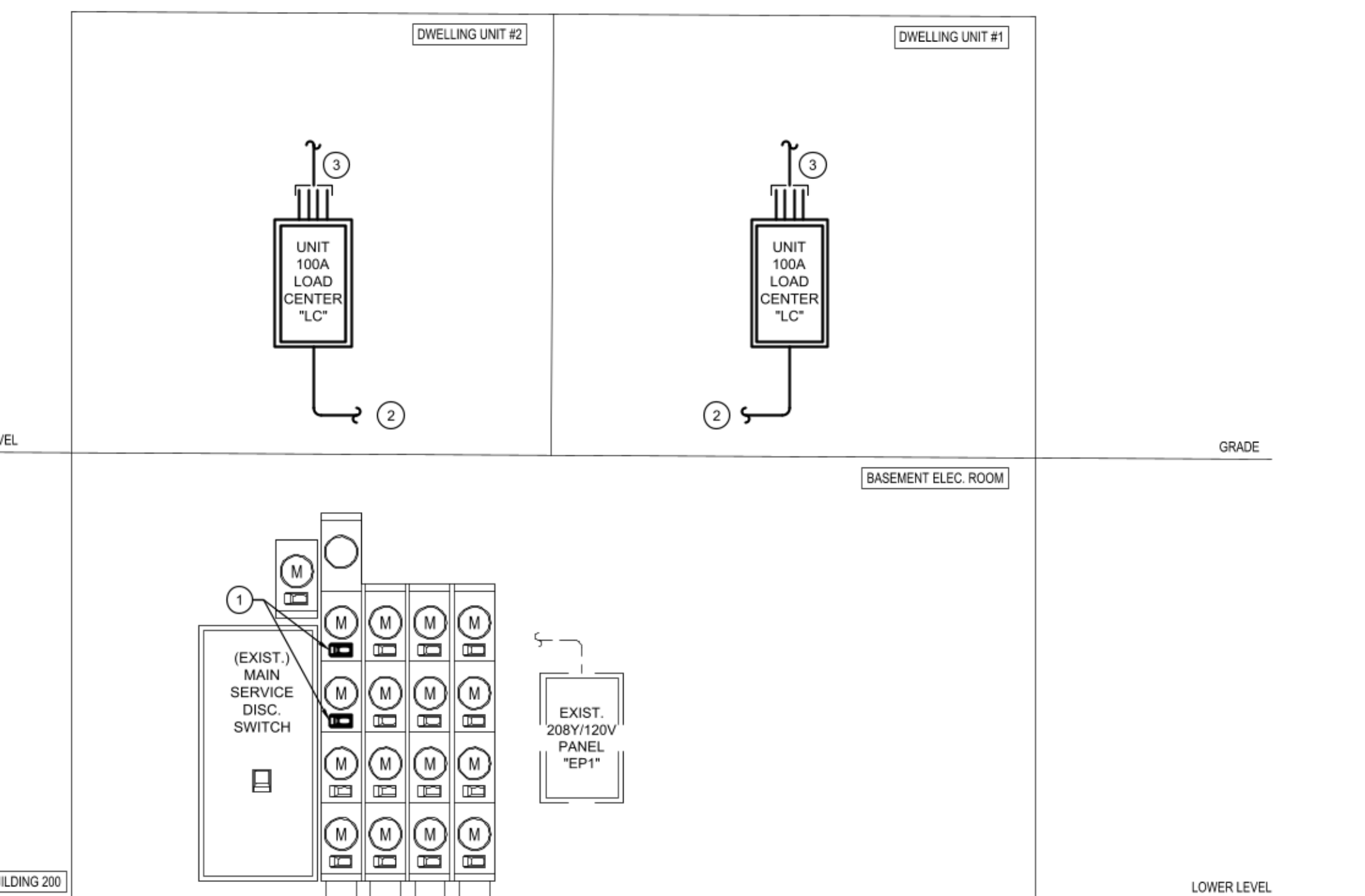
**LOADCENTER "LC" SCHEDULE**

**LOADCENTER DESCRIPTION:**  
FLUSH MOUNTED 120/208 VOLT, 1-PHASE, 3-WIRE, MAIN LUG ONLY 24 CIRCUIT LOAD CENTER WITH PLUG-IN FULL SIZE BRANCH CIRCUIT BREAKERS. LOADCENTER BUSSING AND TERMINALS SHALL BE COPPER AND HAVE A RATING OF 125 AMPERES, SHORT CIRCUIT RATING NOT LESS THAN 10,000 AMPERES RMS SYMMETRICAL AND BUSSING SHALL BE BRACED TO 22KAIC.

CIRCUIT No.	AMPS	POLES	LOAD DESCRIPTION
2	20	1	COMMON LIGHTING (LIVING / DINING / KITCHEN / BATHROOM)
4	20	1	BATHROOM POWER
6	20	1	MICROWAVE / STOVE HOOD (ABOVE STOVE) (SEE NOTE #7.)
8	20	1	ELECTRIC STOVE (SEE NOTE #2.)
10	15	1	(TELEPHONE / DATA / TV) PATCH PANEL / INTERCOM POWER (SEE NOTE #6.)
12	15	1	EXISTING BATHROOM EXHAUST FAN (REFER TO MECHANICAL PLANS)
12 THRU 24	20	1	(SPARE)
1	20	1	CONVENIENCE RECEPTACLES
3	20	1	APPLIANCE RECEPTACLES
5	20	1	APPLIANCE RECEPTACLES
7	20	1	KICK SPACE HEATER, "KSH-#", (SEE NOTE #5)
9	20	1	REFRIGERATOR
11	20	1	BEDROOM RECEPTACLES / LIGHTING
13	20	1	BEDROOM RECEPTACLES / LIGHTING (NOT USED IN ALL UNITS)
12 THRU 24	20	1	SPARE

**LOAD CENTER SCHEDULE NOTES:**

1. ALL LOADCENTERS IN ADA APARTMENTS SHALL BE INSTALLED SO THAT THE TOP BREAKER IS A MAXIMUM OF 48" A.F.F.
2. CONTRACTOR SHALL PROVIDE & INSTALL ARC FAULT TYPE BREAKERS FOR ALL CIRCUITS IN DWELLING UNITS.
3. BRANCH CIRCUIT WIRING FOR EQUIPMENT WITHIN LIVING UNIT SHALL BE AS FOLLOWS:
  - KICK SPACE HEATER(S), "KSH", SHALL BE 2#12 & 1#12 GND..
  - ALL REMAINING 15 / 20 AMP CIRCUITS, SHALL BE 2#12 & 1#12 GND.
4. CONTRACTOR SHALL & INSTALL A DEDICATED QUAD-RUPLEX RECEPTACLE & 120 VOLT CIRCUIT FOR ALL TENANTS LOW VOLTAGE SYSTEMS (TELEPHONE, CABLE, ETC.). LOCATION OF EQUIPMENT, RECEPTACLE AND MOUNTING METHODS SHALL BE VERIFIED WITH BUILDING OWNER, MANUFACTURER'S & UTILITY REPRESENTATIVES PRIOR TO ANY INSTALLATION.
5. CEILING EXHAUST FAN SHALL BE WIRED TO RUN CONTINUOUSLY AT "LOW SPEED" SETTING AND BOOST FAN OUTPUT WHEN DESIGNATED BATHROOM WALL SWITCH IS ENABLED. EXACT FAN WIRING & OPERATION SHALL BE FIELD VERIFIED WITH M.C.
6. ELECTRICAL CONTRACTOR SHALL EXTEND FEEDERS FROM EXISTING EXHAUST FANS TO NEW PANELBOARDS, "LC." E.C. SHALL EXTEND EXISTING CIRCUITRY AS NECESSARY TO EACH UNIT'S RESPECTIVE PANELBOARD. E.C. TO FIELD VERIFY EXISTING CIRCUITRY AND MATCH EXISTING ELECTRICAL CHARACTERISTICS, FIELD VERIFY ROUTING, CIRCUITRY, CONNECTION MEANS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS.



**PROPOSED POWER RISER DIAGRAM**  
NOT TO SCALE

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Renovations for:  
**PHA Galego Court  
Administration Building  
& Building 200**  
483 Weeden Street  
Pawtucket, RI 02860



SHEET CONTENTS:  
Electrical -  
Power Riser Diagram,  
Notes, and Schedules

PROJECT #: 2123  
DATE: 12/15/2023  
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**E2.1**

CONSTRUCTION DOCUMENTS - DECEMBER 15, 2023

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