

Project No.  
1599

Date:  
02.17.2022  
Drawn by:  
DH  
Checked by:  
DB  
Revisions:  
03.16.2022  
ADDENDUM - 8

SW+  
PROJECT: GR3773

SEAMON  
WHITESIDE &  
ASSOCIATES, INC.  
No. C00472  
STATE OF SOUTH CAROLINA  
CERTIFICATE OF AUTHORIZATION

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DANIEL R. BALON  
05/16/22

SPARTANBURG FIRE STATION ONE  
450 WATFORD ST., SPARTANBURG, SOUTH CAROLINA 29301

UTILITY PLAN

Sheet No.  
C7.0



**RCP LEGEND:**  
NOTE: SEE FINISH SCHEDULE IN SHEET 7.10

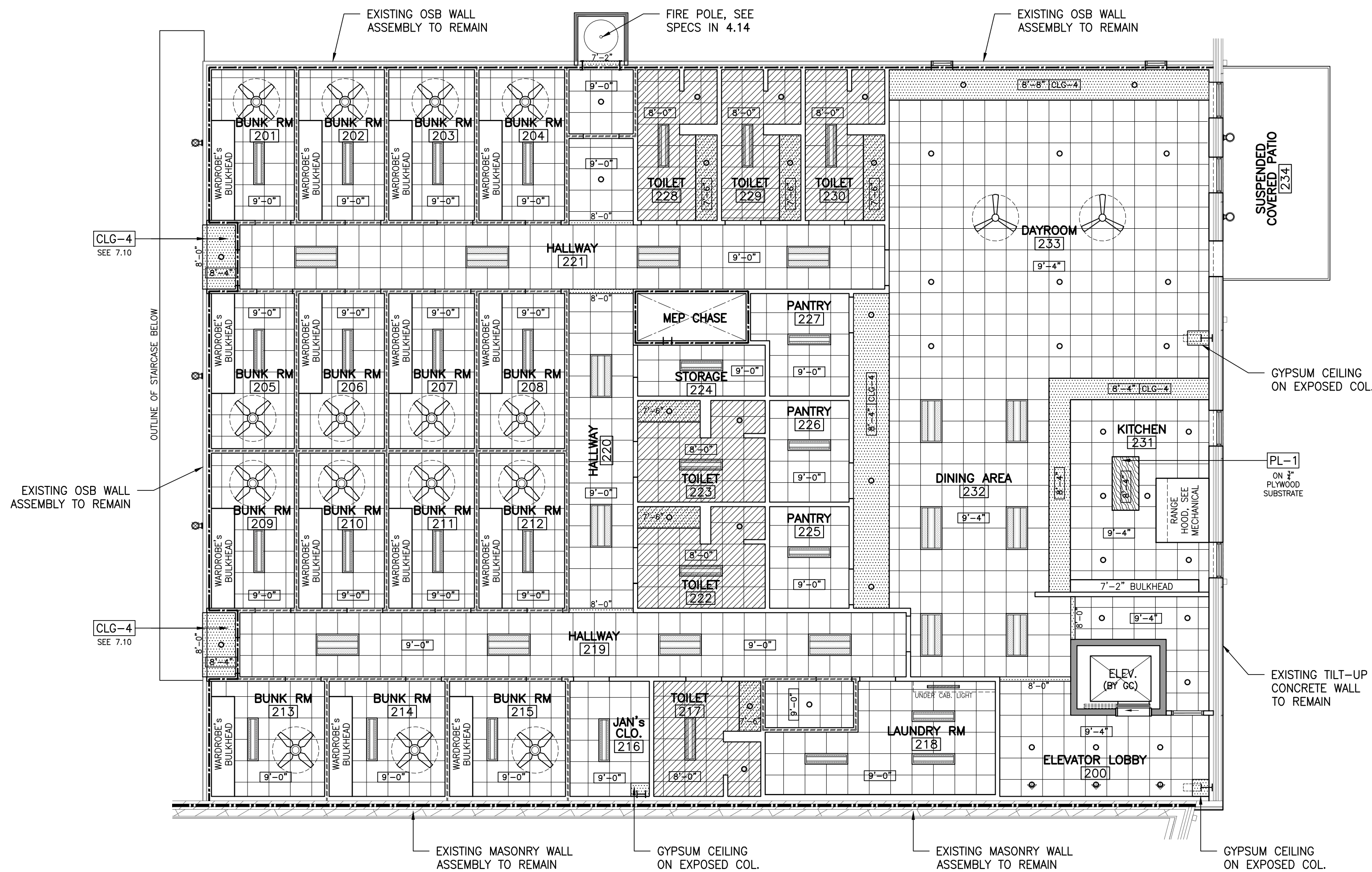
- 24"x24" ACT (ACOUSTICAL CEILING TILE)
- 24"x24" ACT (ACOUSTICAL CEILING TILE) WITH 5/8" FACED SOUND ATTENUATION MINERAL WOOL BATT INSULATION (ALL TOILETS and SHOWER STALLS) OTHER THAN BECON TOILET
- PAINTED GYPSUM CEILING BOARD & BULKHEAD (8" THK.)
- PAINTED GYPSUM CEILING BOARD & BULKHEAD (8" THK.) WITH 5/8" FACED ATTENUATION SOUND BATT INSULATION (USE 100% MINERAL WOOL)
- EXTERIOR LED DECORATIVE WALL SCONCE
- EXTERIOR LED WALL PACK
- 6"Ø RECESSED LED CAN LIGHT
  - 6"Ø RECESSED LED CAN LIGHT (WALL WASHER)
  - 6"Ø RECESSED LED CAN LIGHT (SHOWER STALL)
- 2'x4' LED LIGHT FIXTURE (RECESSED MOUNT)
- 1'x4' LED LIGHT FIXTURE (RECESSED MOUNT)
- 4' LED LIGHT FIXTURE (SURFACE MOUNT) FOR RATED CEILING IN ALL BUNK ROOMS
- 1'x4' LED LIGHT FIXTURE (SUSPENDED FOR OPEN CEILING)
- SURFACE MOUNTED UNDER CABINET LED STRIP LIGHT
- NEW 30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED CEILING THAT IS ATTACHED TO THE BOTTOM OF ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
- NEW 1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE ROOF, SEE DETAILS IN SHEET 1.70
- EXISTING 1 HOUR RATED MASONRY WALL, WITH EXISTING RATED DOOR.
- CEILING HEIGHT TAG (ABOVE FINISH FLOOR)
- CEILING FINISH TAG (SEE FINISH PLAN FOR SPECS)

**ALL CEILING FANS ARE TO BE SUPPLIED & INSTALLED BY CG.**

- CEILING FAN (SLEEP ROOMS): HUNTER, MACARONI WITH LED LIGHT 52", MODEL 50848, BRUSHED NICKEL-LIGHT GRAY OAK. USE INCLUDED WALL MOUNTED COMBO SWITCH (FAN & LIGHT).
- CEILING FAN (EXERCISE ROOM & DAYROOM): HUNTER, VICENZA WITH LED LIGHT 52", MODEL 50907, BRUSHED NICKEL-MATTE WHITE. PROVIDE WALL MOUNTED COMBO SWITCH FOR LIGHT & FAN WITH SPEED CONTROL (HUNTER 27182). PROVIDE 48" EXTENSION ROD FOR EXERCISE ROOM ONLY.
- HVLS FAN (APPARATUS BAYS): BIG ASS FAN, 14"Ø BASIC-6. PROVIDE EXTENSION TUBE, MOUNTING STEEL BRACKETS, and SAFETY CABLES AS REQUIRED TO SECURE THE FAN IN PLACE. QUANTITY: 6

**RCP NOTES:**

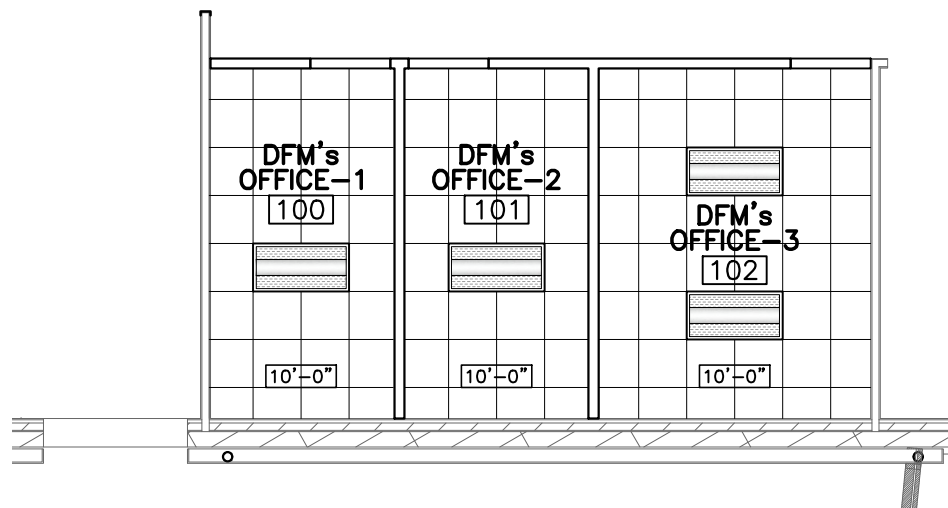
- GENERAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND PROPER LOCATION OF ALL HVAC GRILLES AND LIGHTINGS. CEILING GRID MAYBE SUBJECT TO CHANGE TO ASSURE PROPER CENTERING AND PLACEMENT OF LIGHT FIXTURES IN ROOMS.
- NO ACT (ACOUSTICAL CEILING TILES) TO BE LESS THAN 4" IN EITHER DIRECTION, UNLESS DIRECTED BY THE ARCHITECT.
- SEE ADDITIONAL INSULATION NOTES ON SHEET 1.70.
- CEILING HEIGHTS ARE DERIVED FROM BASE ELEVATION OF THE FINISH FLOOR = 0'-0" UNLESS NOTED OTHERWISE.
- VERIFY ALL LIGHT FIXTURES AND LOCATIONS WITH THE ELECTRICAL PLAN & IN THE OVERALL RCP @ 6.10.
- VERIFY ALL DIFFUSER TYPES AND LOCATIONS (SUPPLY & RETURN GRILLES) WITH THE MECHANICAL PLAN.
- ALL WALL MOUNTED TV'S ARE TO BE BY OWNER, GC TO PROVIDE WOOD BLOCKING AS REQUIRED, CONFIRM MOUNTING HEIGHTS WITH THE OWNER PRIOR TO INSTALLATION.
- IN CASE THERE'S A NEED TO ACCESS MECHANICAL DAMPER HANDLES OR OTHER FIRE/PLUMBING CONTROL VALVES IN THE HARD CEILING AREAS, PROVIDE A MINIMUM OF 14"x14" PAINTABLE CEILING ACCESS DOOR.
- SEE 5.10 FOR MOUNTING HEIGHTS OF EXTERIOR WALL LIGHTS.
- EXTERIOR & INTERIOR SECURITY CAMERAS TO BE SUPPLIED & INSTALLED BY THE OWNER, GC TO COORDINATE WITH THE OWNER FOR THE QUANTITY AND LOCATIONS.



**1 MEZZANINE RCP OF BUNK ROOMS, DAYROOM, DINING & KITCHEN**

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

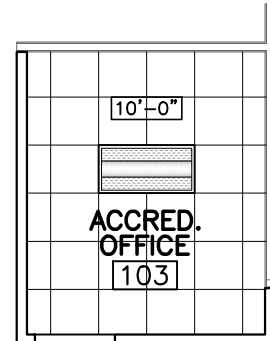
SEE:  
WALL TAG PLAN 1/1.11  
FLOOR PLAN with NOTES 1/4.14  
DIMENSION PLAN 1/4.15  
FINISH PLAN 1/7.10



**3 RCP FOR FM & DFM's OFFICES**

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

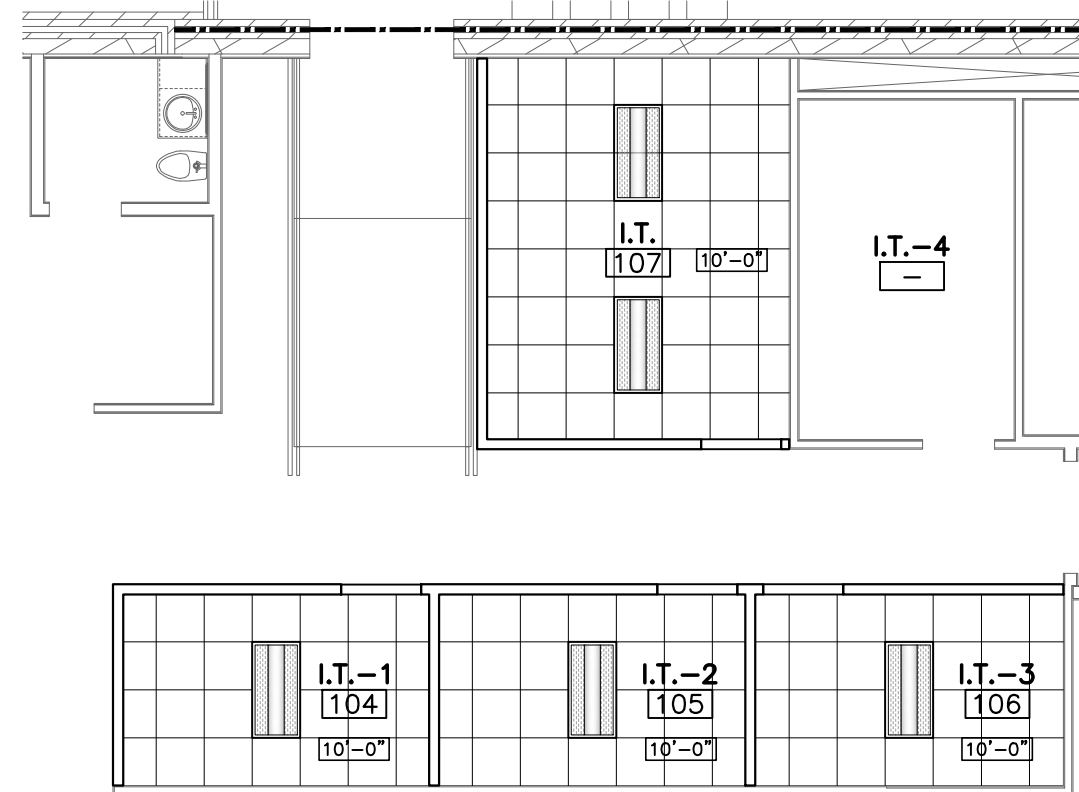
SEE:  
WALL TAG PLAN 3/1.11  
FLOOR PLAN with NOTES 1/4.11  
DIMENSION PLAN 6/4.15  
FINISH PLAN 4/7.10



**4 RCP FOR ACCREDITATION OFFICE**

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

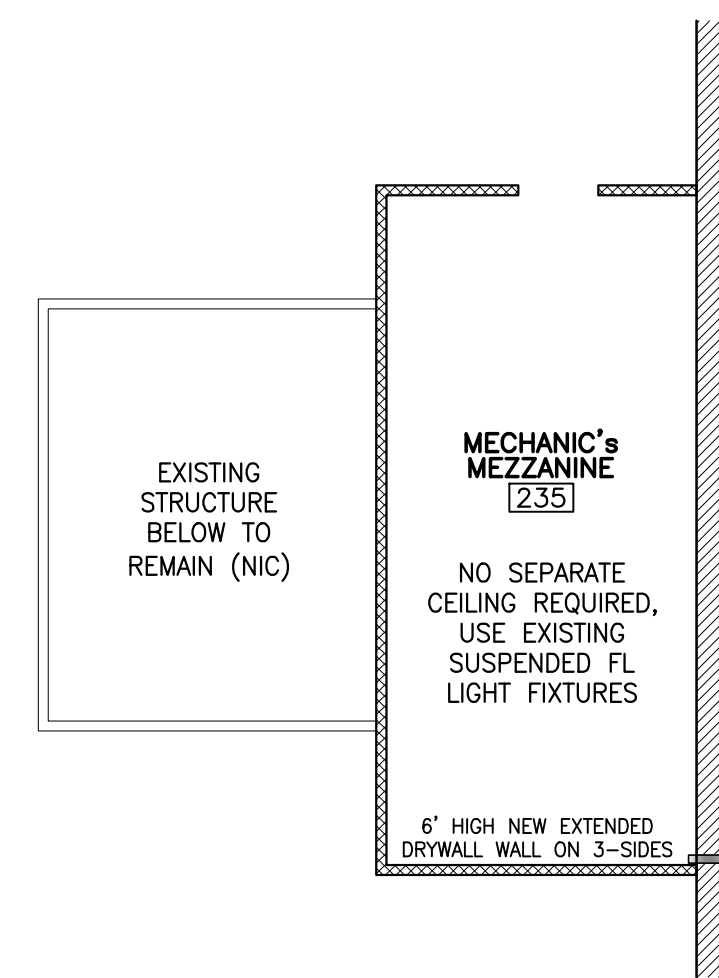
SEE:  
WALL TAG PLAN 4/1.11  
FLOOR PLAN with NOTES 1/4.11  
DIMENSION PLAN 6/4.15  
FINISH PLAN 3/7.10



**5 PLAN FOR ALTERNATE BID #1 (I.T. OFFICES)**

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

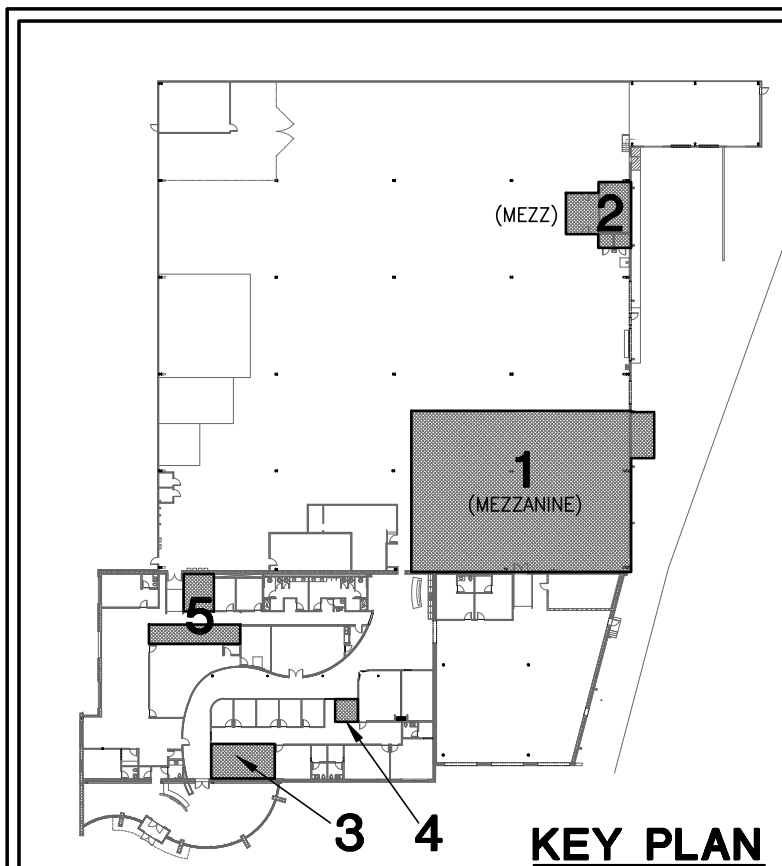
SEE:  
WALL TAG PLAN 6/1.11  
FLOOR PLAN with NOTES 1/4.11  
DIMENSION PLAN 6/4.15  
FINISH PLAN 6/7.10



**2 MEZZANINE RCP OF MECHANIC'S MEZZANINE**

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

SEE:  
WALL TAG PLAN 2/1.11  
FLOOR PLAN with NOTES 2/4.14  
DIMENSION PLAN 2/4.15  
FINISH PLAN 2/7.10

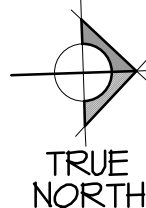


**GENERAL NOTES**

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WHENEVER THERE ARE DISCREPANCIES BETWEEN DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR CONFLICTS WITHIN THE SPECIFICATIONS AND/OR DRAWINGS, AND SUCH DISCREPANCY IS NOT CALLED TO THE ARCHITECT'S ATTENTION IN TIME TO PERMIT CLARIFICATION BY ADDENDUM, THE CONTRACTOR SHALL BASE HIS BID UPON PROVIDING THE BETTER QUALITY OR GREATER OF WORK OR MATERIAL CALLED FOR, SHALL SUBMIT A WRITTEN STATEMENT WITH HIS PROPOSAL NOTING SUCH DISCREPANCIES, AND SHALL SO FURNISH AND INSTALL SUCH BETTER QUALITY OR GREATER QUANTITY UNLESS OTHERWISE ORDERED IN WRITING.

0' 4'-0" 10'-0" 20'-0"  
GRAPHIC SCALE: 1/8"=1'-0"



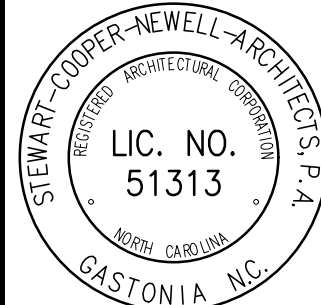
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DATE: 02.17.2022  
DRAWN by: GYS  
CHECKED by: KCN  
REVISIONS:

03.16.2022  
ADDENDUM #8,  
REMOVE CEILING  
SOUND INSULATION

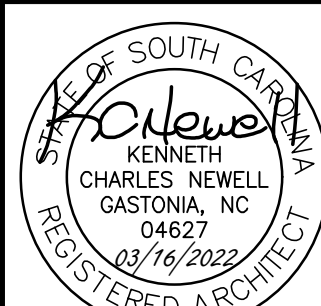
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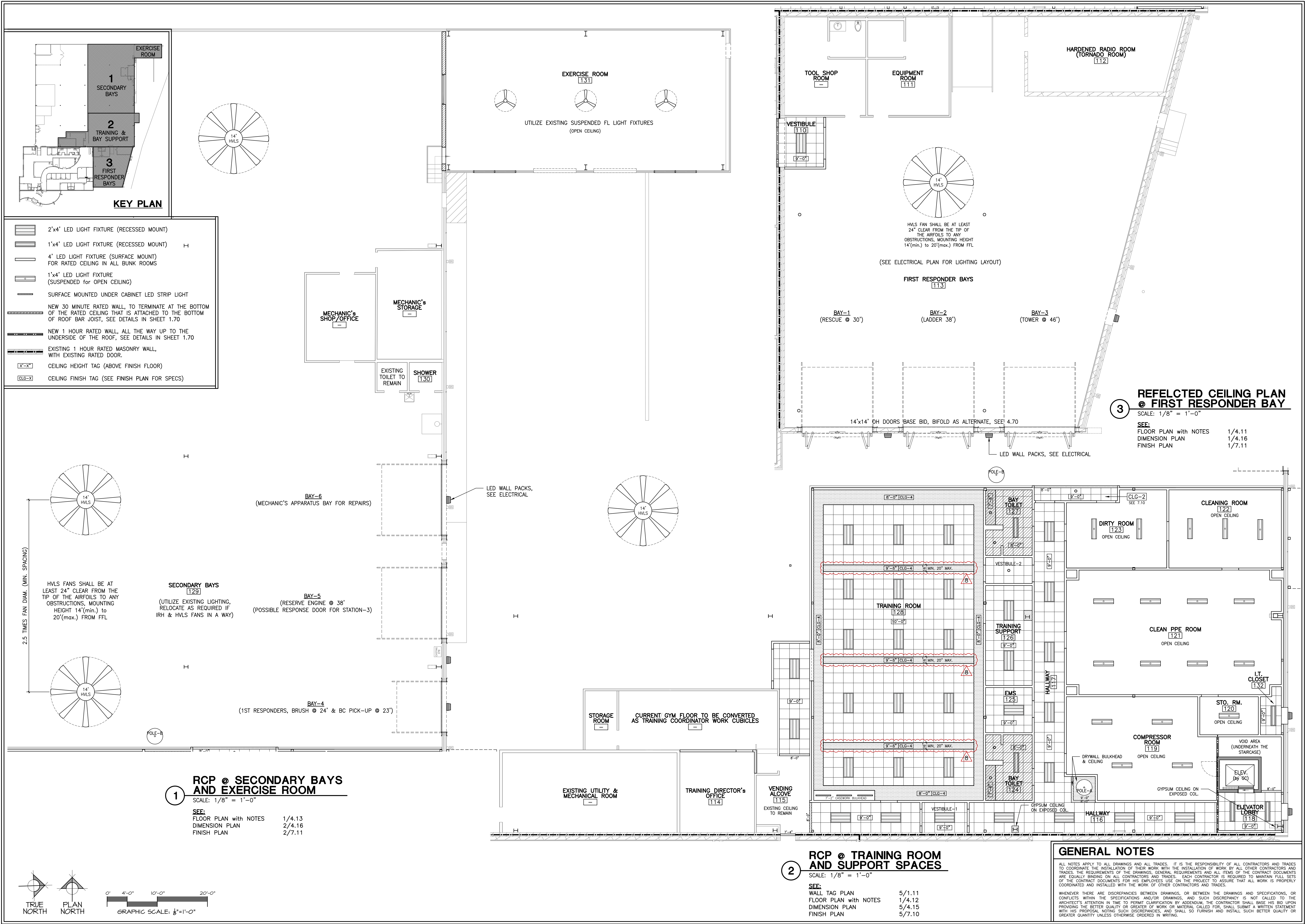


**SPARTANBURG FIRE STATION ONE**  
460 WOFFORD ST., SPARTANBURG, SOUTH CAROLINA 29301

**MEZZANINE PLAN OF BUNK ROOMS,  
& MECHANIC'S MEZZ. (RCP)**

Sheet No.  
**6.11**





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DRAWN by: GYS  
CHECKED by: KCN  
REVISIONS:

03.16.2022  
ADDENDUM #8, ADDED GYPSUM BD. BULKHEAD IN THE TRAINING ROOM 128 TO CONCEAL THE W21x93 STEEL BEAMS.

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03/16/2022  
REGISTERED ARCHITECT

SPARTANBURG FIRE STATION ONE  
460 WOFFORD ST., SPARTANBURG, SOUTH CAROLINA 29301

REFLECTED CEILING PLAN OF 1ST FLOOR AND SUPPORT SPACES

Sheet No. 6.12



## FINISH SCHEDULE:

SEE SHEET 7.11 FOR  
ADDITIONAL FINISH NOTES.

### PORCELAIN FLOOR TILE (NOTED AS PFT)

**PFT** BEST TILE, RUN, SUNRAY 297764, MATTE, 12"x24" RECTIFIED  
TILE (RESTROOM FLOORS). SEE 7.11 FOR GROUT TYPE & COLOR.

### CERAMIC WALL TILE (NOTED AS CWT-) see 6/7.12

**CWT-1** BEST TILE, BRIXTON (ACCENT TILE) IVORY 308976, GLOSSY, 4"x16" TILE  
(RESTROOM WALLS). SEE 7.11 FOR GROUT TYPE & COLOR.

**CWT-2** BEST TILE, BRIXTON (FIELD TILE) TAUPÉ 308987, GLOSSY, 4"x16" TILE  
(RESTROOM WALLS). SEE 7.11 FOR GROUT TYPE & COLOR.

### CONCRETE FLOOR FINISH

**PCF** POLISHED CONCRETE FLOOR WITH 2 COATS OF CONCRETE SEALER.

**SC** SEALED CONCRETE WITH 2 COATS OF CONCRETE SEALER TOPCOAT.

### ATHLETIC RUBBER FLOORING (NOTED AS ATL)

**ARF-1** ATHLETIC RUBBER FLOORING, NORAMENT 992 GRANO, 5308  
MYRRH, 9mm THICK, 40"x40" IN SIZE. SEE ARF-2 IN ADA RAMP.

### FIBER REINFORCED POLYMER WALL PANELS (NOTED AS FRP)

**FRP** 8" HIGH, PROVIDE STANDARD LINE OF SURFACE TEXTURE & COLORS  
TO BE SELECTED BY THE OWNER DURING CONSTRUCTION SUBMITTAL.

### PAINTS (NOTED AS PT-) SHERWIN WILLIAMS

**PT-1** SW 7662 EVENING SHADOW, EPOXY SEMI-GLOSS FINISH (FIELD WALL)

**PT-2** SW 9152 LET IT RAIN, EPOXY SEMI-GLOSS FINISH (ACCENT WALL)

**PT-3** SW 6005 FOLKSTONE, EPOXY SEMI-GLOSS FINISH (MEZZANINE SUSPENDED PATIO)

**PT-4** SW 6002 ESSENTIAL GRAY, EPOXY SEMI-GLOSS FINISH (SUPPORT AREAS)

**PT-5** SW 6328 FIREWEED, EPOXY SEMI-GLOSS FINISH (FOR STEEL BOLLARDS, OVERHEAD  
and BIFOLD DOOR FRAMES, SEE ELEVATIONS IN 5.10)

**PT-6** SAME COLOR AS PT-3, EPOXY SEMI-GLOSS FINISH (FOR ALL STAIRCASE EXPOSED  
STEEL MEMBERS & MEZZANINE PLATFORM). DO NOT PAINT THE ALUMINUM GRATING.

**PT-7** SW 7100 ARCADE WHITE, FLAT FINISH (GY. BOARD CEILING) SEE CLG-4.

**PT-8** SW 6001 GRAYISH, IN EGGSHELL FINISH (FIELD WALL)

**PT-9** SW 6004 MINK, IN EGGSHELL FINISH (ACCENT WALL)

**PT-10** COLOR TO MATCH EXISTING, IN SEMI-GLOSS FINISH (SECONDARY BAYS, ABOVE FRP)

### HOLLOW METAL DOORS & FRAMES PAINT COLOR

**HMDF** SAME COLOR AS PT-3, EPOXY PAINT IN SEMI-GLOSS FINISH, FOR EXTERIOR  
DOORS & FRAMES ONLY.  
SEE 4.70 FOR INTERIOR HM FRAMES, FOR INTERIOR HM DOORS: COLOR TBD.

### RESILIENT BASE (NOTED AS RB-)

**RB-1** TARKETT 4" RUBBER WALL BASE WITH TOE, 47 BROWN. SHOULD WRAP  
AROUND THE CORNER GUARDS.

**RB-2** TARKETT 6" RUBBER WALL BASE WITH TOE, 82 BLACK PEARL. (FOR  
EXERCISE ROOM-130, FIRST RESPONDER BAYS-113 & SUPPORT AREAS)

### COUNTERTOP FINISHES (NOTED AS CTR-)

**CTR-1** STAINLESS STEEL COUNTERTOP WITH EASED EDGES, #4 SATIN FINISH  
(FOR KITCHEN COUNTERTOPS)

**CTR-2** CORIAN SOLID SURFACE COUNTERTOP, CARBON AGGREGATE. 3/8" THICK  
(FOR ALL RESTROOM VANITY COUNTERTOPS)

**CTR-3** FORMICA LAMINATE, 8813-PA TONAL PAPER TERRAZZO, PAPER FINISH  
(FOR LAUNDRY & TRAINING ROOM COUNTERTOPS)

### CASEWORK CABINETS & DRAWER FACES (NOTED AS PL-)

**PL-1** FORMICA LAMINATE, 7484-58 CHERRY BIRCH, MATTE FINISH - FOR EXPOSED  
SHELVES, CABINET DOORS & DRAWER FACES. USE WHITE PLASTIC LAMINATE  
ON THE INTERIOR CASEWORK.

### CORNER & WALL GUARDS (NOTED AS CG & WG)

**CG1** FLUSH MOUNTED CORNER GUARD, NON-RATED, INPRO 150F OR PAWLING  
CGT-7, COLOR TO BE SELECTED DURING CONSTRUCTION FROM THE FULL  
RANGE OF MANUFACTURER'S COLORS, SEE 1/7.12 DETAIL

**CG2** FLUSH MOUNTED CORNER GUARD, 1HR. FIRE-RATED, INPRO 150FR1 OR  
PAWLING CGT-7, COLOR TO BE SELECTED DURING CONSTRUCTION FROM THE  
FULL RANGE OF MANUFACTURER'S COLORS, SEE 2/7.12 DETAIL

**CG3** FLUSH MOUNTED END WALL GUARD, INPRO 140D OR PAWLING CGT-888,  
COLOR TO BE SELECTED DURING CONSTRUCTION FROM THE FULL RANGE OF  
MANUFACTURER'S COLORS, SEE 3/7.12 DETAIL

**CG4** SURFACE MOUNTED STAINLESS STEEL CORNER GUARD (3/4" WING x 8' HIGH,  
16ga.), INPRO SAS-183124H-304 OR PAWLING CG-50, SEE 4/7.12 DETAIL

**WG** SURFACE MOUNTED WALL GUARD, INPRO 1600 OR PAWLING WG-6, PROVIDE  
ALL NECESSARY COMPONENTS (END CAP, INSIDE & OUTSIDE CORNERS, ETC.)  
COLOR TO BE SELECTED DURING CONSTRUCTION FROM THE FULL RANGE OF  
MANUFACTURER'S COLORS, SEE 5/7.12 DETAIL

### CEILING FINISHES (NOTED AS CLG-) See RCP @ 6.10

**CLG-1** ARMSTRONG FINE FISSURED-1732 ANGLED TEGULAR, WHITE CEILING TILES WITH  
1/8" PRELUDE XL SUSPENSION SYSTEM IN WH3G COLOR, 24"x24"x3/8" THK.

**CLG-2** ARMSTRONG KITCHEN ZONE-673, LAY-IN CEILING PANELS WITH 1/8"  
PRELUDE SUSPENSION SYSTEM, 24"x24"x3/8" THK. (FOR KITCHEN & LAUND.)

**CLG-3** SAME AS CLG-2 PLUS 1" FACED SOUND ATTENUATION MINERAL WOOL BATT  
INSULATION. SEE 1.70 FOR SPECS. FOR ALL RESTROOMS & SHOWER STALLS.

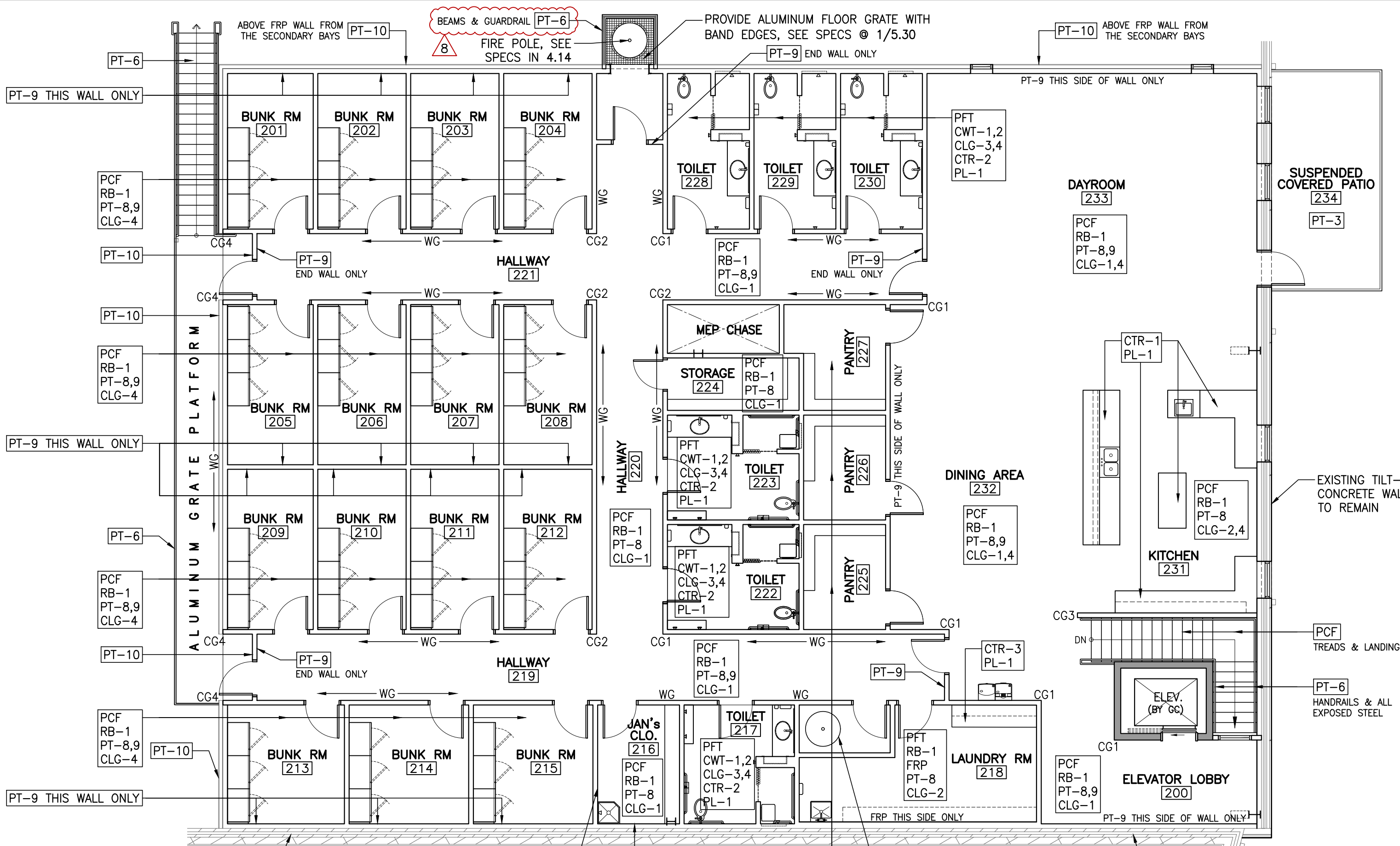
**CLG-4** 5/8" THK. GYPSUM BOARD, PAINT WITH PT-7 (U.N.O. IN RCP).

**CLG-5** OPEN CEILING, PAINT EXPOSED CEILING STRUCTURE WITH SW PRO INDUSTRIAL  
WATERBORNE ACRYLIC DRYFALL PAINT, WHITE SEMI-GLOSS FINISH (USE BLACK  
COLOR IN EXERCISE ROOM-131 & FIRST RESPONDER BAYS-113, INCLUDE ALL  
CABLES, CHAINS, CHANNELS, STRAPS, HANGERS, DUCT WORKS (INCLUDING THE  
PLYMOVENT DUCTINGS) & CONDUITS, OTHER THAN SPRINKLER FIRE LINES  
WHICH IS RED), SEE NOTE #9 IN SHEET 7.11 FOR PRIMER & MORE INFO.

### MISCELLANEOUS FINISH

**BS** KITCHEN BACK SPLASH, STAINLESS STEEL, METAL MOSAIC, SUBWAY WALL  
TILE 12"x12" (ITEM #: 354394, MODEL #: 20-617) LOWE'S.  
SEE 7.11 FOR GROUT TYPE & COLOR.

**UEF** USE EXISTING FLOOR (TO REMAIN).



## MEZZANINE FINISH PLAN OF BUNK ROOMS, DAYROOM, DINING & KITCHEN

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

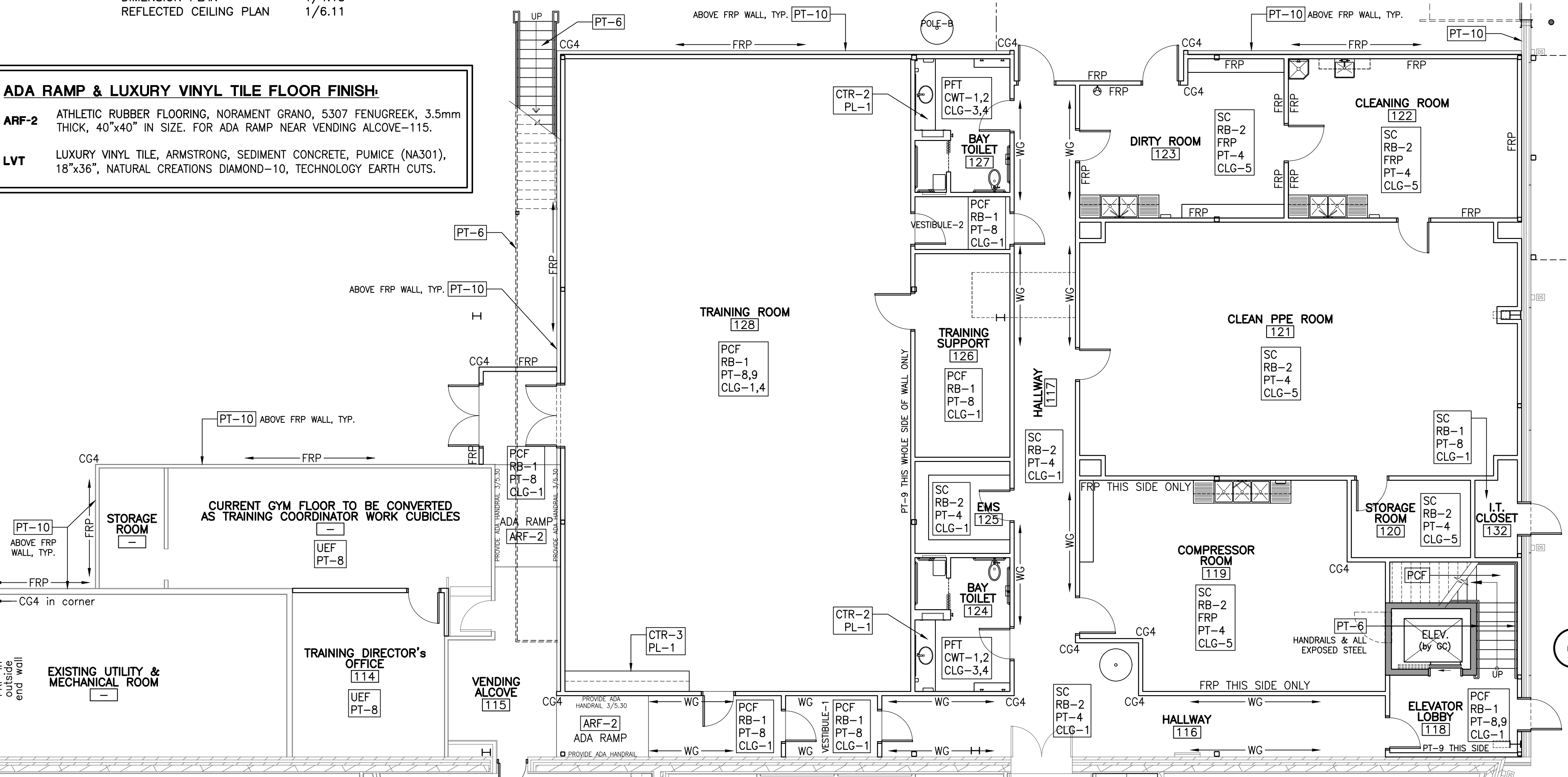
NOTE: SOME FINISH TAGS ARE IN THE RCP.

SEE:  
WALL TAG PLAN 1/1.11  
FLOOR PLAN with NOTES 1/4.14  
DIMENSION PLAN 1/4.15  
REFLECTED CEILING PLAN 1/6.11

### ADA RAMP & LUXURY VINYL TILE FLOOR FINISH:

**ARF-2** ATHLETIC RUBBER FLOORING, NORAMENT GRANO, 5307 FENUGREEK, 3.5mm  
THICK, 40"x40" IN SIZE. FOR ADA RAMP NEAR VENDING ALCOVE-115.

**LVT** LUXURY VINYL TILE, ARMSTRONG, SEDIMENT CONCRETE, PUMICE (NA301),  
18"x36", NATURAL CREATIONS DIAMOND-10, TECHNOLOGY EARTH CUTS.



## FINISHES FOR TRAINING ROOM AND SUPPORTING AREAS

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

NOTE: SOME FINISH TAGS ARE IN THE RCP.

(1ST FLOOR)

SEE:  
WALL TAG PLAN 5/1.11  
FLOOR PLAN with NOTES 1/4.12  
DIMENSION PLAN 5/4.15  
REFLECTED CEILING PLAN 2/6.12

## FINISH PLAN FOR MECHANIC'S MEZZANINE

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

SEE:  
WALL TAG PLAN 2/1.11  
FLOOR PLAN with NOTES 2/4.14  
DIMENSION PLAN 2/4.15  
REFLECTED CEILING PLAN 2/6.11

## FINISH PLAN FOR ACCREDITATION OFFICE

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

(1ST FLOOR)

SEE:  
WALL TAG PLAN 4/1.11  
FLOOR PLAN with NOTES 1/4.11  
DIMENSION PLAN 4/4.15  
REFLECTED CEILING PLAN 4/6.11

## FINISH PLAN for FM & DFM's OFFICES

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

(1ST FLOOR)

SEE:  
WALL TAG PLAN 3/1.11  
FLOOR PLAN with NOTES 1/4.11  
DIMENSION PLAN 3/4.15  
REFLECTED CEILING PLAN 3/6.11

## PLAN FOR ALTERNATE BID #1 (I.T. OFFICES)

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

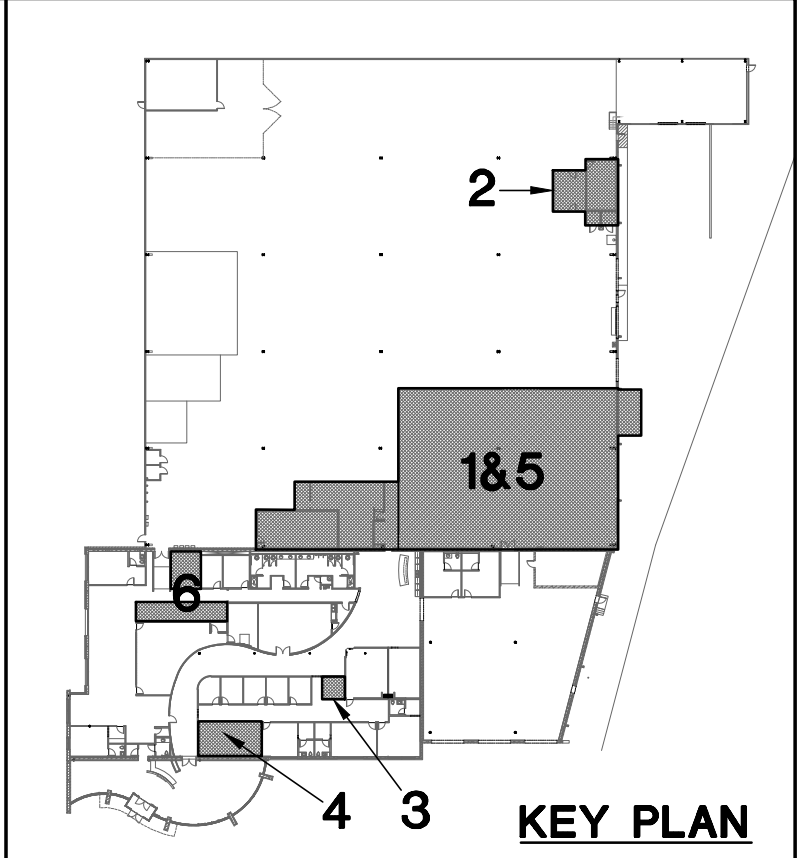
(1ST FLOOR)

SEE:  
WALL TAG PLAN 6/1.11  
FLOOR PLAN with NOTES 1/4.11  
DIMENSION PLAN 6/4.15  
REFLECTED CEILING PLAN 5/6.11

## GENERAL NOTES

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ARCHITECT'S ATTENTION IN TIME TO PERMIT CLARIFICATION BY ADDENDUM, THE CONTRACTOR SHALL BASE HIS BID UPON  
PROVIDING THE BETTER QUALITY OR GREATER OF WORK OR MATERIAL CALLED FOR, SHALL SUBMIT A WRITTEN STATEMENT  
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DRAWN by: GYS

CHECKED by: KCN

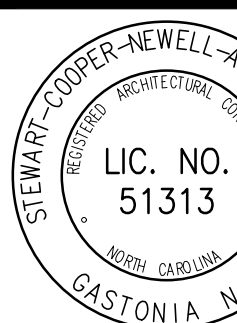
REVISIONS:

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ADDENDUM #8

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04627  
03/16/2022

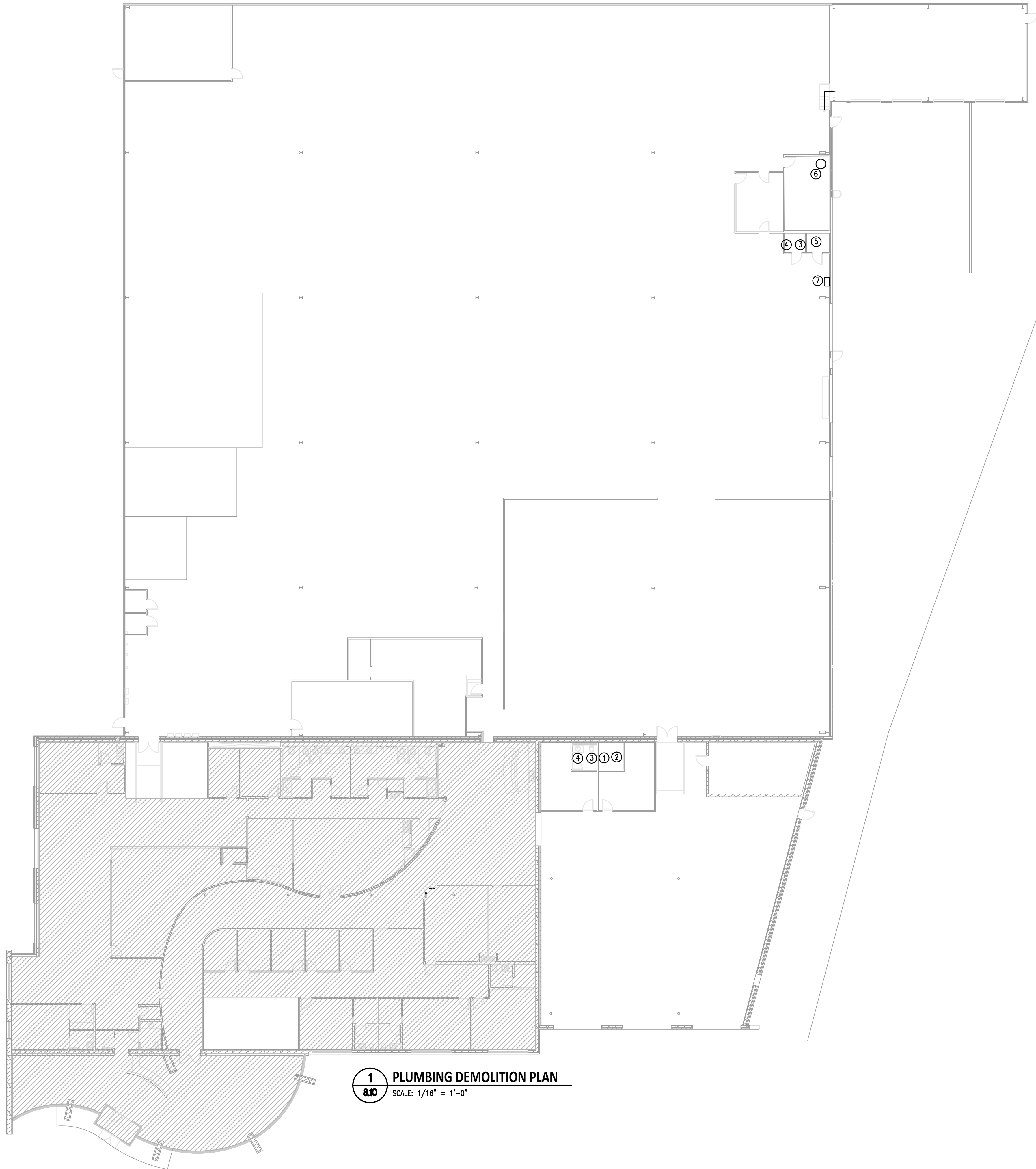
SPARTANBURG FIRE STATION ONE  
460 WOFFORD ST., SPARTANBURG, SOUTH CAROLINA 29301

MEZZANINE PLAN OF BUNK ROOMS,  
& MECHANIC'S MEZZ.







































Sheet No.

7.10



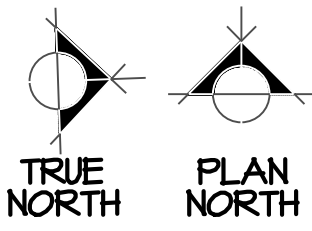


**1**  
**8.10** **PLUMBING DEMOLITION PLAN**  
SCALE: 1/16" = 1'-0"

PLUMBING LEGEND					
	DOMESTIC COLD WATER PIPING		GREASE WASTE		PLUMBING SUB-CONTRACTOR
	EXIST. DOMESTIC COLD WATER		EXIST. GREASE WASTE		GENERAL CONTRACTOR
	110°F DOMESTIC HOT WATER PIPING		RAIN LEADER PIPING		MECHANICAL SUB-CONTRACTOR
	EXIST. 110°F DOMESTIC HOT WATER		EXIST. RAIN LEADER PIPING		ELECTRICAL SUB-CONTRACTOR
	110°F HOT WATER RECIRC PIPING		GAS PIPING		FLOOR CLEAN OUT
	105°F DOMESTIC HOT WATER PIPING		EXIST. GAS PIPING		WALL CLEAN OUT
	140°F DOMESTIC HOT WATER PIPING		GATE VALVE		YARD CLEAN OUT
	105°F HOT WATER RECIRC PIPING		BALANCING VALVE		FREEZE PROOF HOSE BIBB
	EXIST. 110°F HOT WATER RECIRC		CHECK VALVE		FLOOR DRAIN
	VENT PIPING		PIPE UP		COLD WATER
	EXIST. VENT PIPING		PIPE DOWN		HOT WATER
	WASTE (SANITARY SEWER)		FIXTURE DESIGNATION		TIE INTO EXISTING
	EXIST. WASTE (SANITARY SEWER)		ABOVE FINISHED FLOOR		

WALL FIRE RATING	
-----	30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
-----	1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE EXISTING ROOF, SEE DETAILS IN SHEET 1.70
-----	EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.

- PLUMBING DEMOLITION NOTES**
- REMOVE WATER CLOSET AT THIS LOCATION COMPLETELY. REMOVE WASTE AND WATER PIPING BACK TO RESPECTIVE MAINS AND CAP.
  - REMOVE LAVATORY AT THIS LOCATION COMPLETELY. REMOVE WASTE AND WATER PIPING BACK TO RESPECTIVE MAINS AND CAP.
  - WATER CLOSET AT THIS LOCATION SHALL REMAIN IN USE. CLEAN AND BRING FIXTURE BACK TO "LIKE NEW" STATE.
  - LAVATORY AT THIS LOCATION SHALL REMAIN IN USE. CLEAN AND BRING FIXTURE BACK TO "LIKE NEW" STATE.
  - REMOVE WATER CLOSET AT THIS LOCATION. NEW SHOWER TO BE INSTALLED AT THIS LOCATION. MODIFY EXISTING WASTE AND WATER ROUGH-IN FOR PROPER INSTALLATION. PREPARE FOR HW PIPING TO BE CONNECTED TO SHOWER.
  - REMOVE EXISTING WATER HEATER AT THIS APPROXIMATE LOCATION.
  - REMOVE EXISTING EYEWASH STATION AT THIS APPROXIMATE LOCATION. EYEWASH STATION TO BE REINSTALLED AT A NEW LOCATION.



**GENERAL NOTES**

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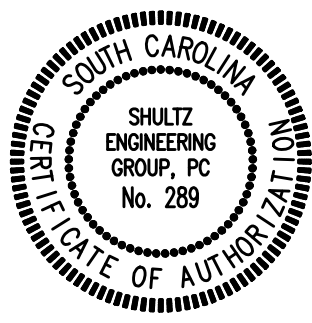
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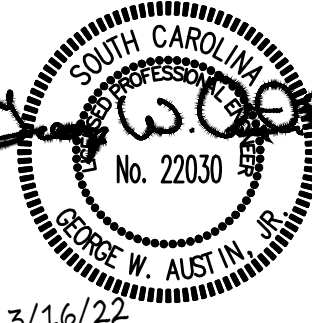
**Project No.**  
**1599**

**Date:**  
**02.17.2022**  
**Drawn by:**  
**DD/ZM/WC/HM**  
**Checked by:**  
**TP/GA**  
**Revisions**  
03.16.2022  
ADDENDUM-8



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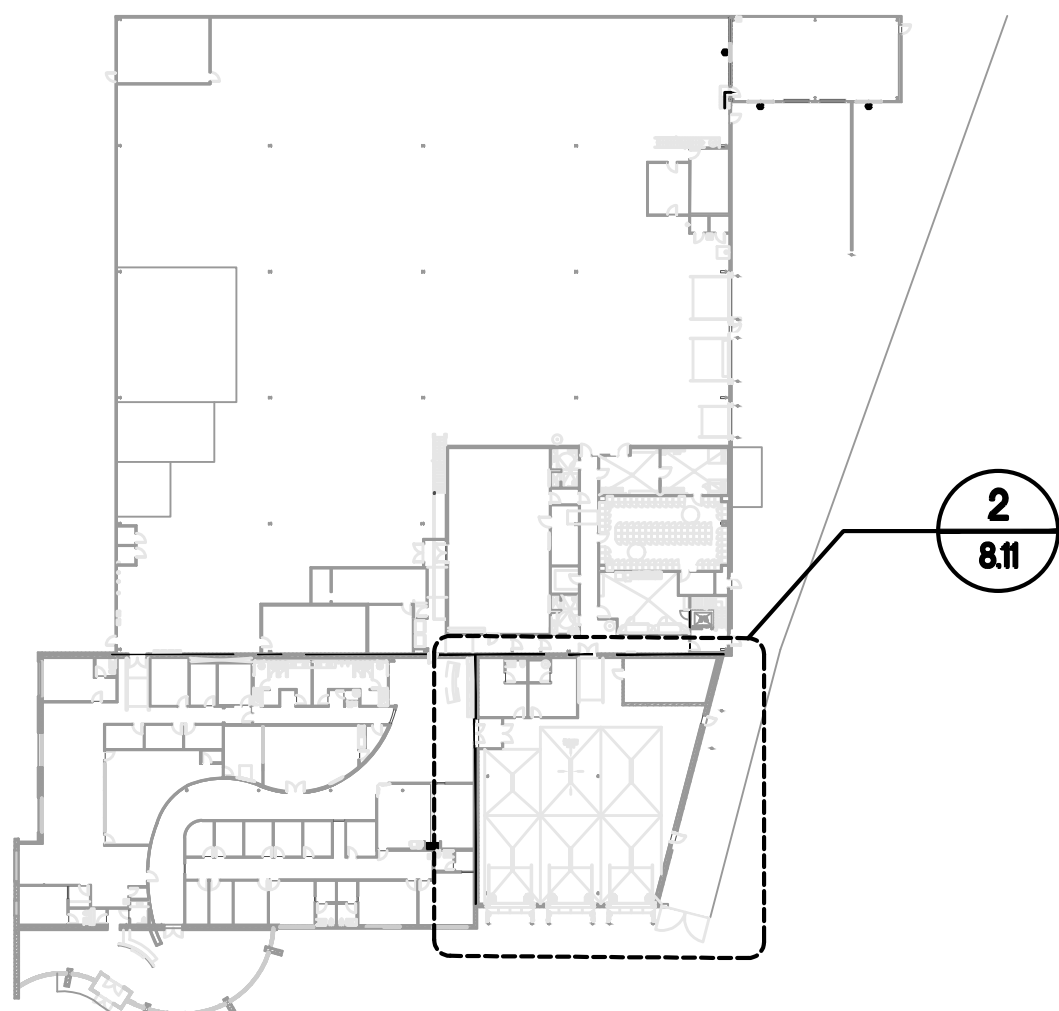
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**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

**Sheet No.**  
**8.10**

PLUMBING DEMOLITION PLAN  
AND NOTES



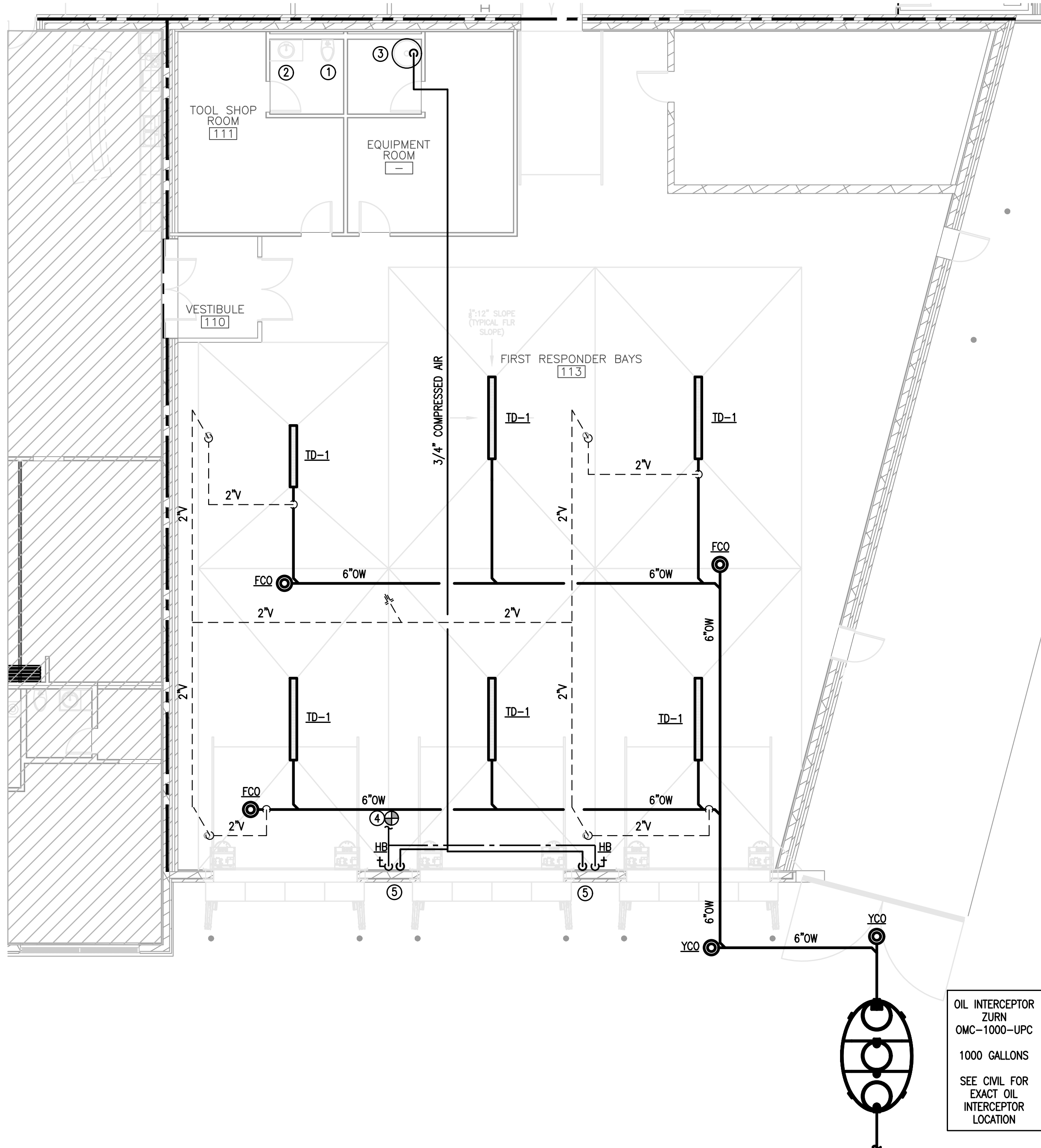


1 PLUMBING KEY PLAN  
8.11 SCALE: NTS

- PLUMBING RENOVATION NOTES**
- 1 WATER CLOSET AT THIS LOCATION SHALL REMAIN IN USE. CLEAN AND BRING FIXTURE BACK TO "LIKE NEW" STATE.
  - 2 LAVATORY AT THIS LOCATION SHALL REMAIN IN USE. CLEAN AND BRING FIXTURE BACK TO "LIKE NEW" STATE.
  - 3 REMOVED AIR COMPRESSOR TO BE REINSTALLED AT THIS NEW LOCATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - 4 CONNECT NEW 3/4" CW TO NEAREST EXISTING 3/4" CW PIPING AT THIS APPROXIMATE LOCATION. VERIFY SIZE AND LOCATION PRIOR TO STARTING WORK.
  - 5 3/4" AIR PIPING INSTALLED DOWN WALL TO HOSE REEL.

PLUMBING LEGEND			
---	DOMESTIC COLD WATER PIPING	OW	OIL WASTE
---	EXIST. DOMESTIC COLD WATER	OW	EXIST. OIL WASTE
---	110°F DOMESTIC HOT WATER PIPING	RL	RAIN LEADER PIPING
---	EXIST. 110°F DOMESTIC HOT WATER	RL	EXIST. RAIN LEADER PIPING
---	110°F HOT WATER RECIRC PIPING	A	COMPRESSED AIR PIPING
---	105°F DOMESTIC HOT WATER PIPING	A	EXIST. COMPRESSED AIR PIPING
---	140°F DOMESTIC HOT WATER PIPING		GATE VALVE
---	105°F HOT WATER RECIRC PIPING		BALANCING VALVE
---	EXIST. 110°F HOT WATER RECIRC		CHECK VALVE
---	VENT PIPING		PIPE UP
---	EXIST. VENT PIPING		PIPE DOWN
---	WASTE (SANITARY SEWER)	P-1	FIXTURE DESIGNATION
---	EXIST. WASTE (SANITARY SEWER)	AFF	ABOVE FINISHED FLOOR
PC	PLUMBING SUB-CONTRACTOR		
GC	GENERAL CONTRACTOR		
MC	MECHANICAL SUB-CONTRACTOR		
EC	ELECTRICAL SUB-CONTRACTOR		
FCO	FLOOR CLEAN OUT		
WCO	WALL CLEAN OUT		
YCO	YARD CLEAN OUT		
FPFB	FREEZE PROOF HOSE BIBB		
FD	FLOOR DRAIN		
CW	COLD WATER		
HW	HOT WATER		
⊕	TIE INTO EXISTING		

WALL FIRE RATING	
---	30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
---	1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE EXISTING ROOF, SEE DETAILS IN SHEET 1.70
---	EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.



2 PLUMBING PLAN -1ST RESPONDER BAYS  
8.11 SCALE: 1/8" = 1'-0"

6" W EXITS OIL INTERCEPTOR  
SEE CIVIL FOR CONTINUATION

OIL INTERCEPTOR  
ZURN  
OMC-1000-UPC  
1000 GALLONS  
SEE CIVIL FOR EXACT OIL INTERCEPTOR LOCATION

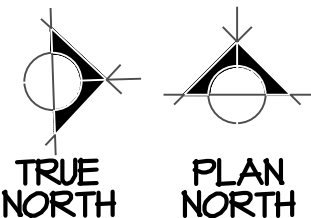


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**GENERAL NOTES**

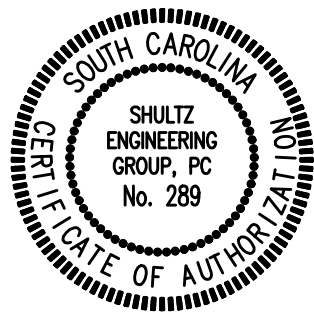
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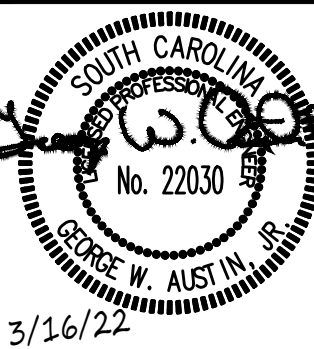
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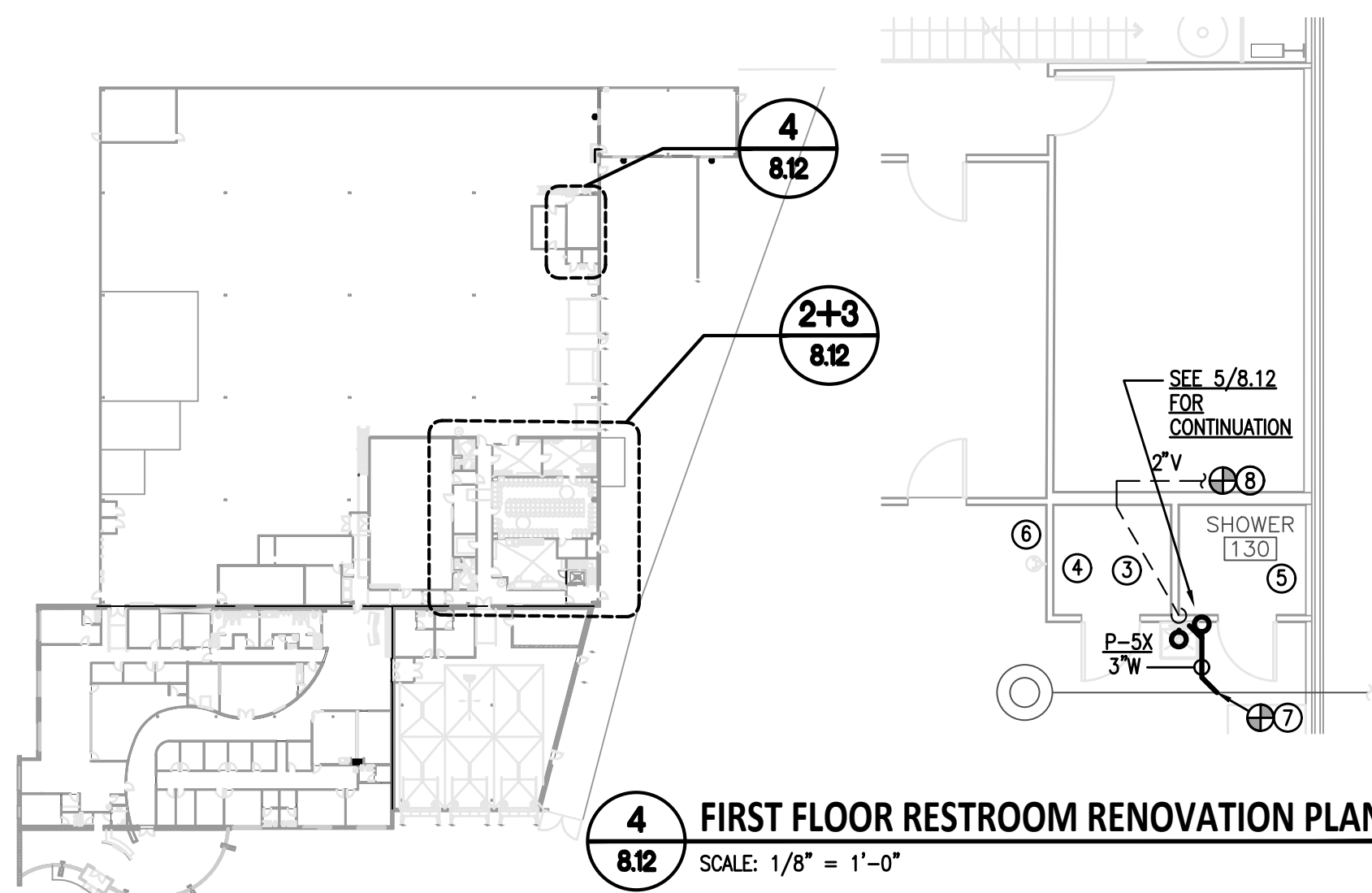
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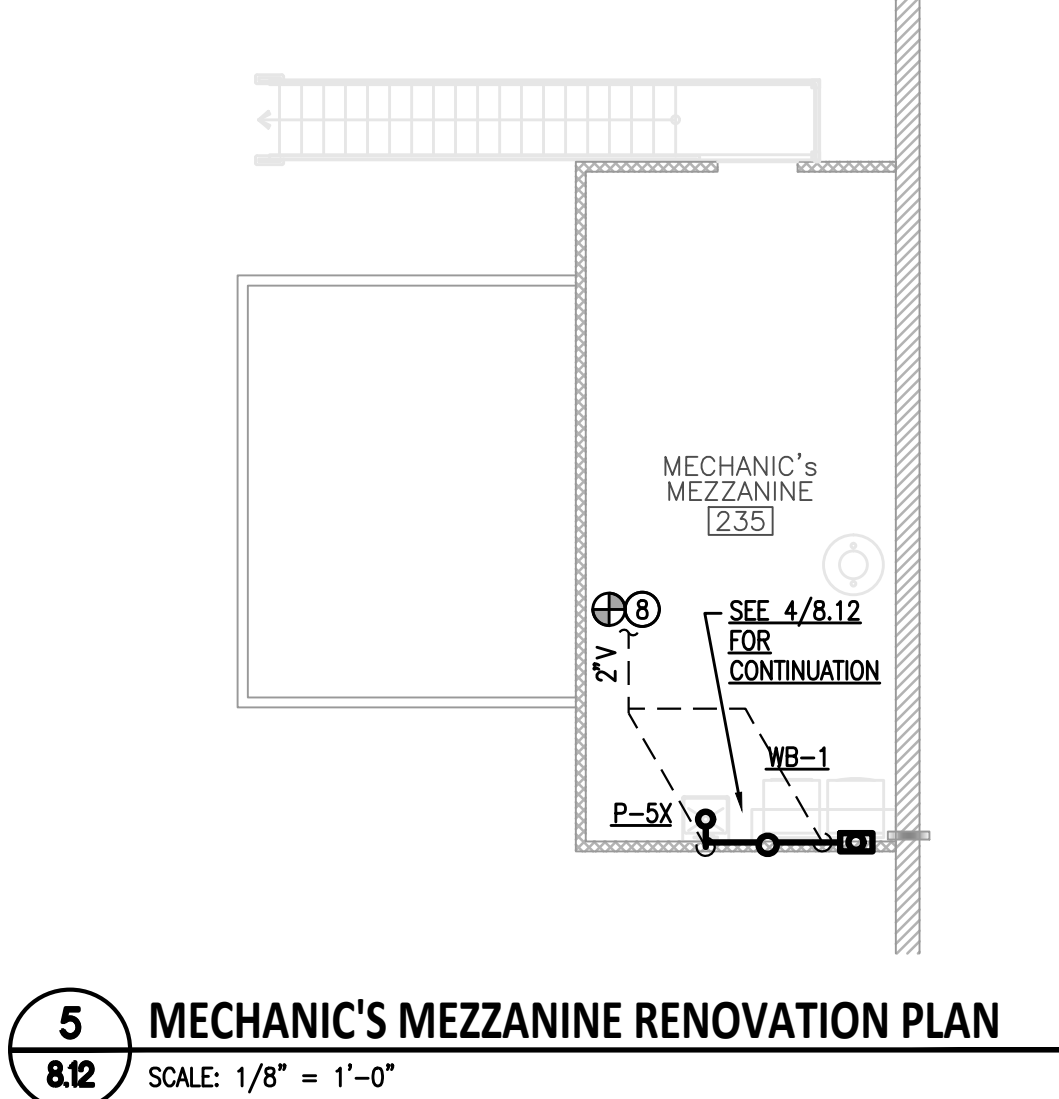
**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301  
FIRST RESPONDER BAYS  
RENOVATION PLANS & NOTES

Sheet No.  
**8.11**



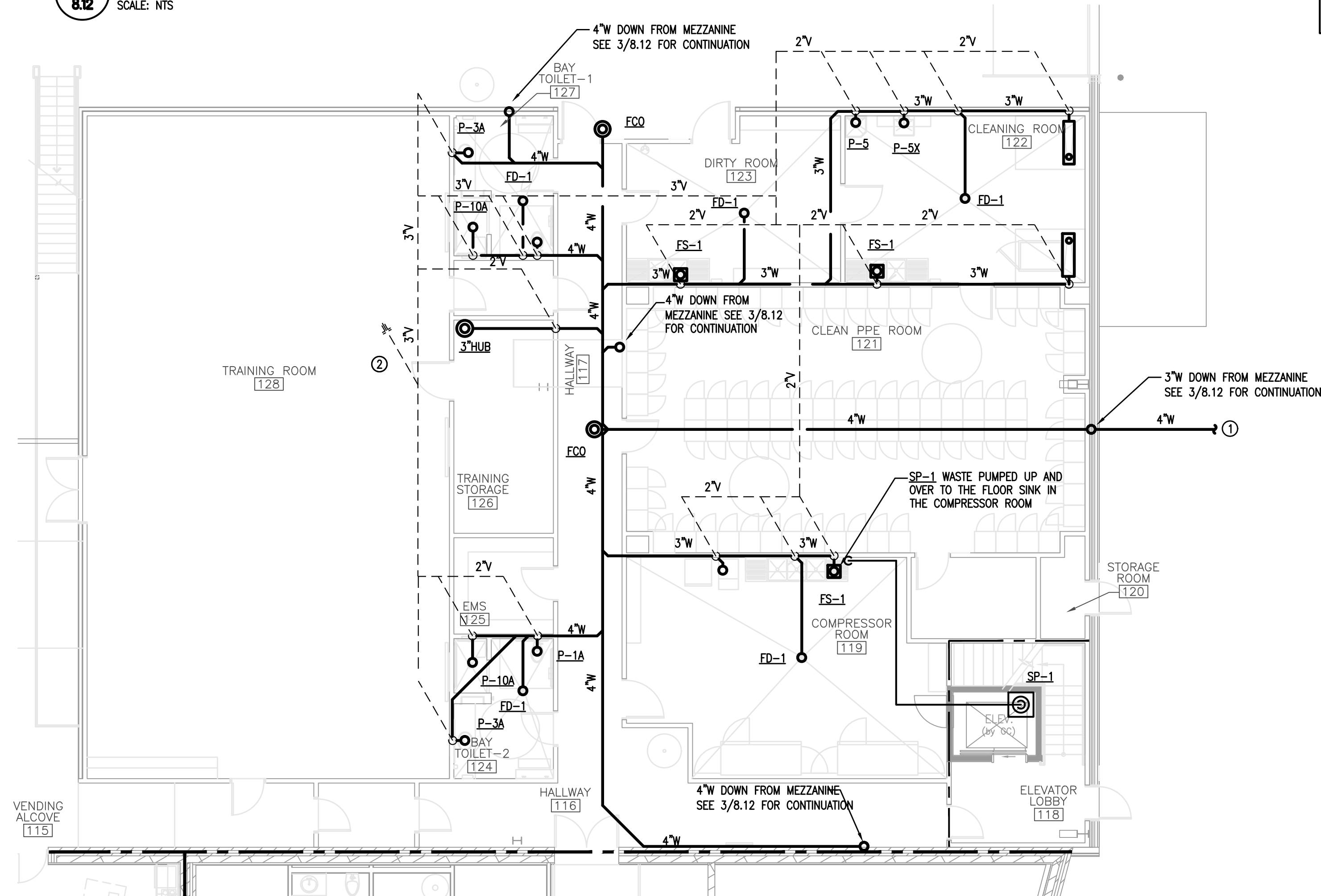


**4 FIRST FLOOR RESTROOM RENOVATION PLAN**  
8.12 SCALE: 1/8" = 1'-0"






**5 MECHANIC'S MEZZANINE RENOVATION PLAN**  
8.12 SCALE: 1/8" = 1'-0"

**1 PLUMBING KEY PLAN**  
8.12 SCALE: NTS

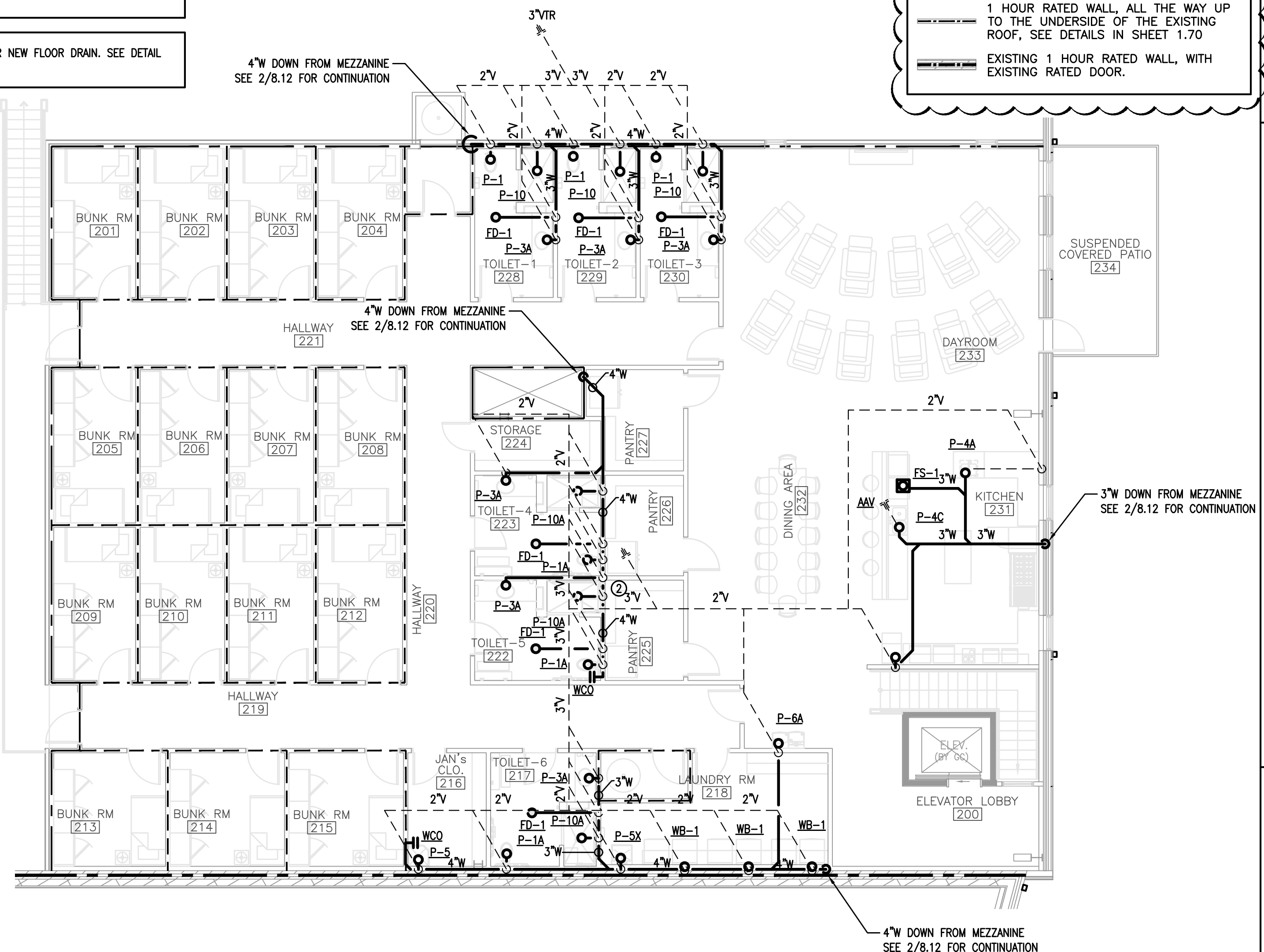


**2 FIRST FLOOR WASTE RENOVATION PLAN**  
8.12 SCALE: 1/8" = 1'-0"

- PLUMBING RENOVATION NOTES**
- NEW 4"W PIPING EXIT BUILDING AT THIS APPROXIMATE LOCATION. SEE CIVIL FOR CONTINUATION. INVERT = -3.5'
  - CONNECT NEW 3"V PIPING TO NEAREST EXISTING 3"V PIPING (OR LARGER) AT THIS APPROXIMATE LOCATION. PC SHALL VERIFY EXACT SIZE & LOCATION OF EXISTING VENT PIPING PRIOR TO STARTING WORK.
  - WATER CLOSET AT THIS LOCATION SHALL REMAIN IN USE. CLEAN AND BRING FIXTURE BACK TO "LIKE NEW" STATE.
  - LAVATORY AT THIS LOCATION SHALL REMAIN IN USE. CLEAN AND BRING FIXTURE BACK TO "LIKE NEW" STATE.
  - NEW SHOWER TO BE INSTALLED AT THIS LOCATION. MODIFY EXISTING WASTE AND WATER ROUGH-IN FOR PROPER INSTALLATION. PREPARE FOR HW PIPING TO BE CONNECTED TO SHOWER.
  - INSTALL REMOVED EYEWASH STATION AT THE NEW LOCATION. ROUTE WASTE TO SPILL ON THE FLOOR.
  - CONNECT NEW 3"W PIPING TO NEAREST EXISTING 3" (OR LARGER) WASTE PIPING AT THIS APPROXIMATE LOCATION. PC SHALL VERIFY EXACT SIZE, INVERT & LOCATION OF EXISTING WASTE PIPING PRIOR TO STARTING WORK.
  - CONNECT NEW 2"V PIPING TO NEAREST EXISTING 2"V PIPING (OR LARGER) AT THIS APPROXIMATE LOCATION. PC SHALL VERIFY EXACT SIZE & LOCATION OF EXISTING VENT PIPING PRIOR TO STARTING WORK.
- PROVIDE TRAP PRIMER FOR NEW FLOOR DRAIN. SEE DETAIL 12/8.20.

PLUMBING LEGEND					
———	DOMESTIC COLD WATER PIPING	——GW——	GREASE WASTE	PC	PLUMBING SUB-CONTRACTOR
———	EXIST. DOMESTIC COLD WATER	——GW——	EXIST. GREASE WASTE	GC	GENERAL CONTRACTOR
———	110°F DOMESTIC HOT WATER PIPING	——RL——	RAIN LEADER PIPING	MC	MECHANICAL SUB-CONTRACTOR
———	EXIST. 110°F DOMESTIC HOT WATER	——RL——	EXIST. RAIN LEADER PIPING	EC	ELECTRICAL SUB-CONTRACTOR
———	110°F HOT WATER RECIRC PIPING	——G——	GAS PIPING	FCO	FLOOR CLEAN OUT
——105°——	105°F DOMESTIC HOT WATER PIPING	——G——	EXIST. GAS PIPING	WCO	WALL CLEAN OUT
——140°——	140°F DOMESTIC HOT WATER PIPING		GATE VALVE	YCO	YARD CLEAN OUT
——105°——	105°F HOT WATER RECIRC PIPING		BALANCING VALVE	FPHB	FREEZE PROOF HOSE BIBB
———	EXIST. 110°F HOT WATER RECIRC		CHECK VALVE	FD	FLOOR DRAIN
———	VENT PIPING	——○——	PIPE UP	CW	COLD WATER
———	EXIST. VENT PIPING	——⊖——	PIPE DOWN	HW	HOT WATER
———	WASTE (SANITARY SEWER)	<u>P-1</u>	FIXTURE DESIGNATION	⊕	TIE INTO EXISTING
———	EXIST. WASTE (SANITARY SEWER)	AFF	ABOVE FINISHED FLOOR		

WALL FIRE RATING	
— — — — —	30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
— — — — —	1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE EXISTING ROOF, SEE DETAILS IN SHEET 1.70
— — — — —	EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.



**3 MEZZANINE WASTE ADDITION PLAN**  
8.12 SCALE: 1/8" = 1'-0"

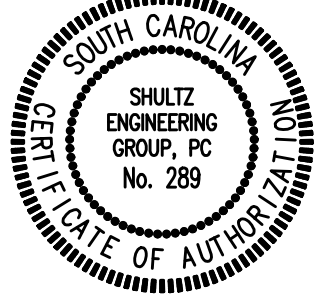
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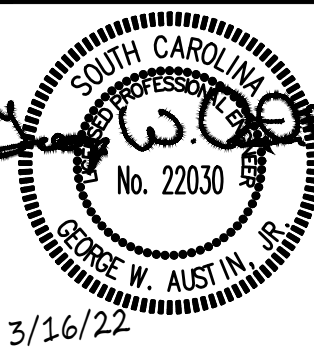
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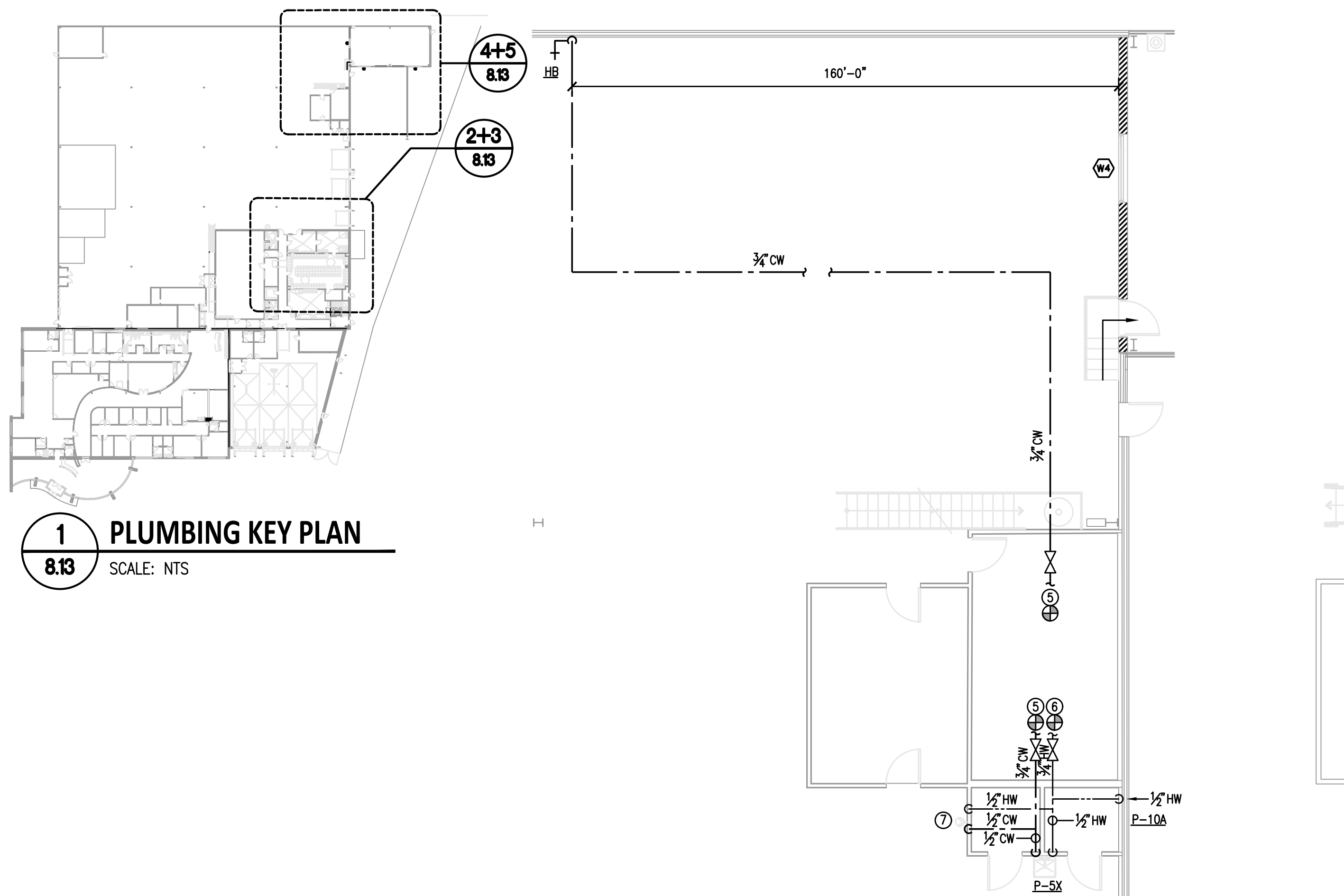


**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

SUPPORT SPACES &  
MEZZANINE SANITARY WASTE  
PLAN & NOTES

Sheet No.  
**8.12**





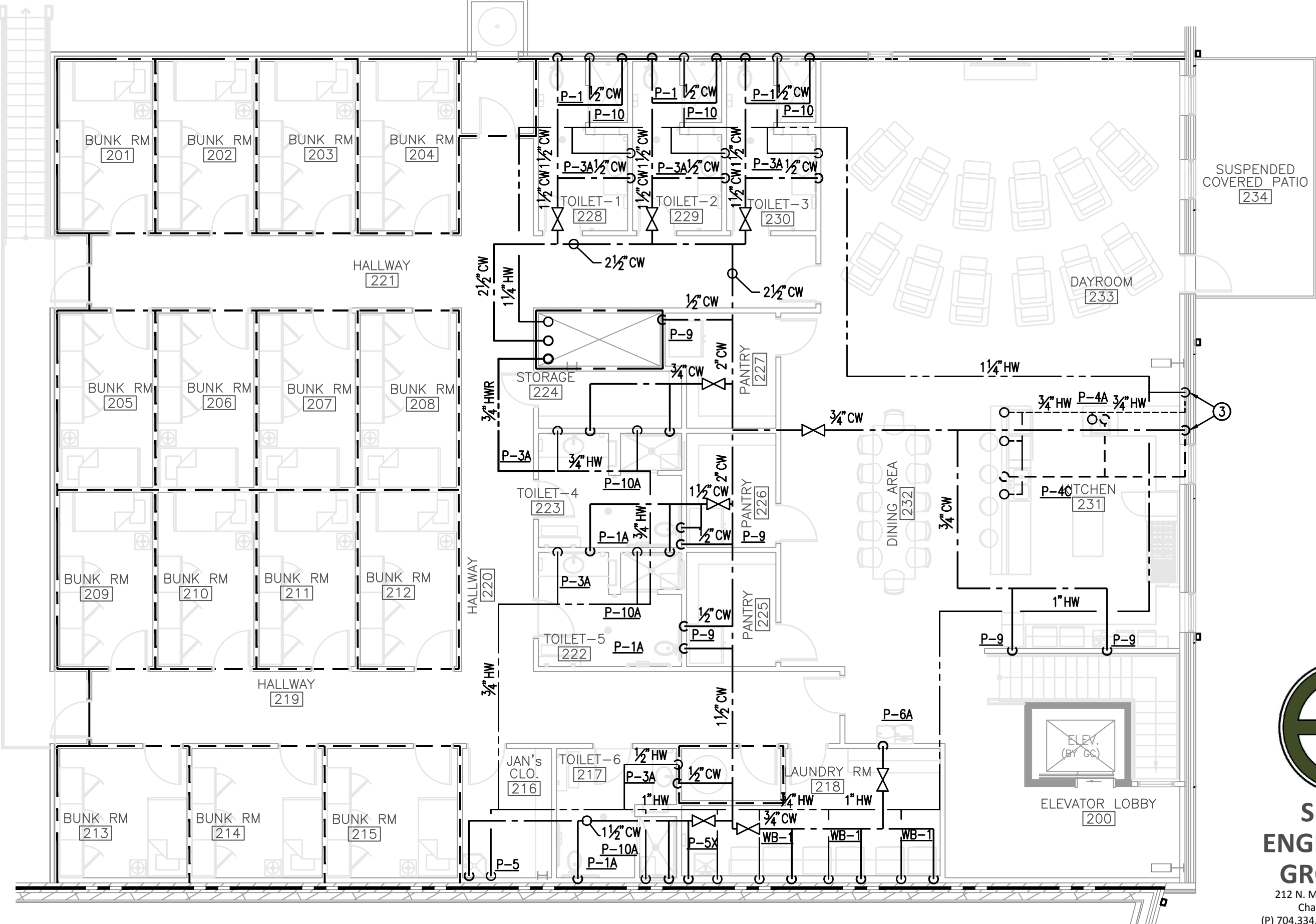
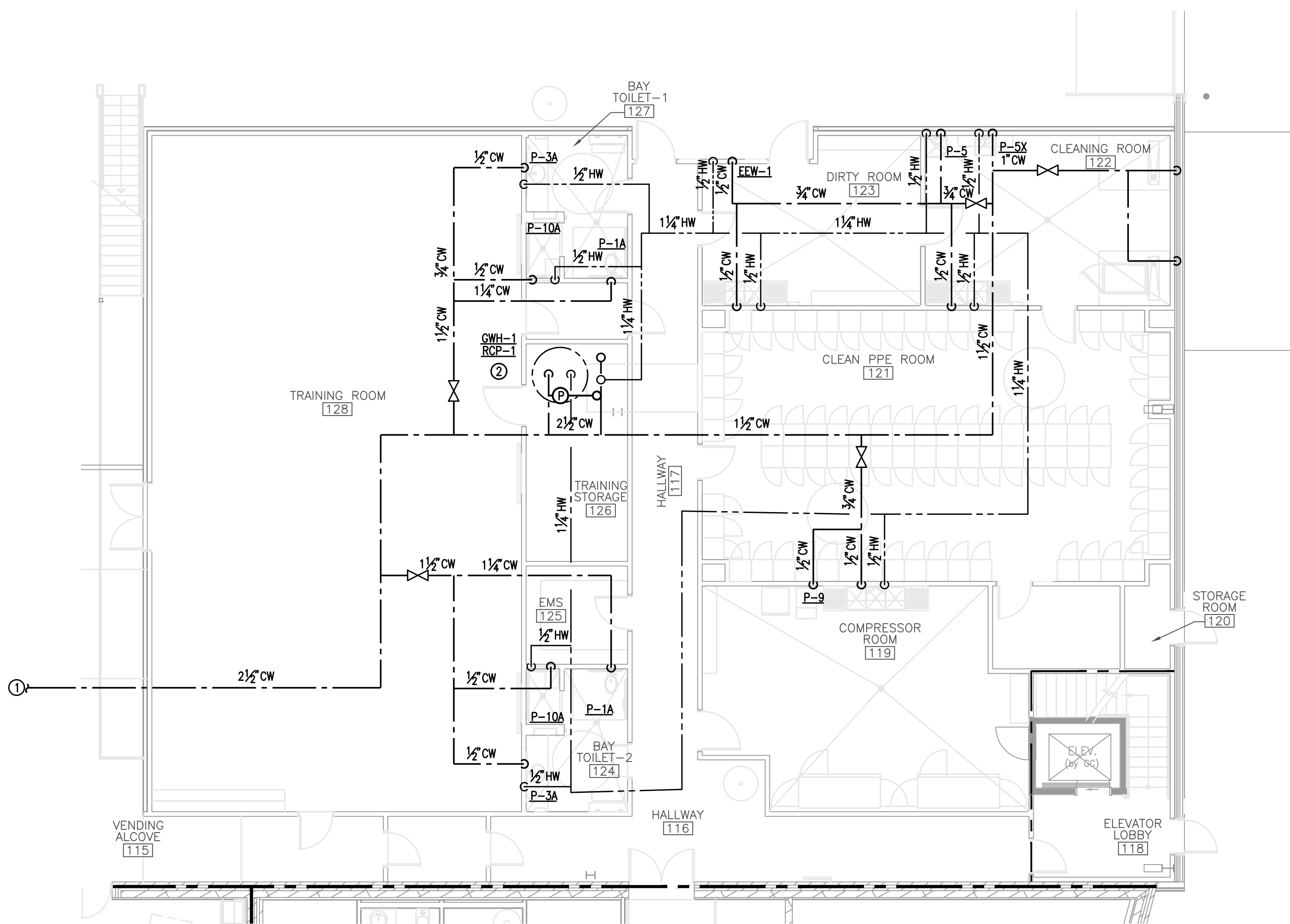
PLUMBING LEGEND					
---	DOMESTIC COLD WATER PIPING	—GW—	GREASE WASTE	PC	PLUMBING SUB-CONTRACTOR
---	EXIST. DOMESTIC COLD WATER	—GW—	EXIST. GREASE WASTE	GC	GENERAL CONTRACTOR
---	110°F DOMESTIC HOT WATER PIPING	—RL—	RAIN LEADER PIPING	MC	MECHANICAL SUB-CONTRACTOR
---	EXIST. 110°F DOMESTIC HOT WATER	—RL—	EXIST. RAIN LEADER PIPING	EC	ELECTRICAL SUB-CONTRACTOR
---	110°F HOT WATER RECIRC PIPING	—G—	GAS PIPING	FCO	FLOOR CLEAN OUT
---	105°F DOMESTIC HOT WATER PIPING	—G—	EXIST. GAS PIPING	WCO	WALL CLEAN OUT
---	140°F DOMESTIC HOT WATER PIPING	—G—	EXIST. GAS PIPING	YCO	YARD CLEAN OUT
---	105°F HOT WATER RECIRC PIPING	—G—	EXIST. GAS PIPING	FPHB	FREEZE PROOF HOSE BIBB
---	EXIST. 110°F HOT WATER RECIRC	—G—	EXIST. GAS PIPING	FD	FLOOR DRAIN
---	VENT PIPING	—G—	EXIST. GAS PIPING	CW	COLD WATER
---	EXIST. VENT PIPING	—G—	EXIST. GAS PIPING	HW	HOT WATER
---	WASTE (SANITARY SEWER)	—G—	EXIST. GAS PIPING	⊕	TIE INTO EXISTING
---	EXIST. WASTE (SANITARY SEWER)	—G—	EXIST. GAS PIPING		

WALL FIRE RATING	
---	30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
---	1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE EXISTING ROOF, SEE DETAILS IN SHEET 1.70
---	EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.

- PLUMBING RENOVATION NOTES**
- CONNECT NEW 2 1/2" CW TO NEAREST EXISTING 3" CW (OR LARGER) AT THIS APPROXIMATE LOCATION. PC SHALL VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING PRIOR TO STARTING WORK.
  - NEW GWH-1 (GAS WATER HEATER) INSTALLED AT THIS LOCATION. 1 1/4" IN, 1 1/4" OUT 3/4" CIRCULATION, 1" DISCHARGE DOWN TO HUB DRAIN.
  - 3/4" CW AND 3/4" HW INSTALLED BENEATH FLOOR TO SERVE ISLAND AREAS.
  - INSTALL NEW EWH-1 (40-GALLON ELECTRIC WATER HEATER) CONNECT TO EXISTING COLD AND HOT WATER PIPING SERVING PREVIOUS WATER HEATER.
  - CONNECT NEW 3/4" CW TO NEAREST EXISTING 3/4" CW (OR LARGER) AT THIS APPROXIMATE LOCATION. PC SHALL VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING PRIOR TO STARTING WORK.
  - CONNECT NEW 3/4" HW TO NEAREST EXISTING 3/4" HW (OR LARGER) AT THIS APPROXIMATE LOCATION. PC SHALL VERIFY EXACT SIZE AND LOCATION OF EXISTING PIPING PRIOR TO STARTING WORK.
  - INSTALL REMOVED EYEWASH STATION AT THE NEW LOCATION.
- PROVIDE THERMOSTATIC MIXING VALVE EQUAL TO LAWLOR MODEL 570 FOR ALL HANDSINK/LAVATORY LOCATIONS. TEMPERATURE SHALL BE SET AT 105°.
- PROVIDE POINT OF USE THERMOSTATIC VALVE COMPLIANT WITH ASSE 1016/ASME112.1016/CSA B125.16 OR ASSE 112.18.1/CSA B125.1 FOR ALL SHOWER LOCATIONS. TEMPERATURE SHALL BE SET NOT TO EXCEED 120°.

**4 FIRST FLOOR RESTROOM RENOVATION PLAN**  
8.13 SCALE: 1/8" = 1'-0"

**5 MECHANIC'S MEZZANINE RENOVATION PLAN**  
8.13 SCALE: 1/8" = 1'-0"



**3 MEZZANINE WATER ADDITION PLAN**  
8.13 SCALE: 1/8" = 1'-0"

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SOUTH CAROLINA  
No. 22030  
GEORGE W. AUSTIN, JR.  
3/16/22

**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

SUPPORT SPACES &  
MEZZANINE WATER SUPPLY  
PLAN & NOTES

Sheet No.  
**8.13**



## FIRE PROTECTION GENERAL REQUIREMENTS

### SCOPE:

ALL AREAS OF RENOVATION ARE TO HAVE NEW SPRINKLER HEADS AND PIPING REQUIRED TO REPLACE EXISTING HEADS INTO A UNIFORM PATTERN WITHIN THE NEW CEILING GRID.

THIS SECTION INCLUDES THE FURNISHING AND REVISING OF EXISTING WET PIPE AUTOMATIC SPRINKLER SYSTEM TO MAINTAIN FIRE PROTECTION BY THE SPRINKLER CONTRACTOR AS SOON AS PRACTICAL AND SUBMITTED FOR REVIEW AND APPROVAL BY THE LOCAL FIRE MARSHAL AND STATE FIRE MARSHAL. CONTRACTOR SHALL PROVIDE ALL SUBMITTALS AND OBTAIN ALL APPROVALS REQUIRED PER THE FIRE MARSHAL (LOCAL AND STATE) OFFICE PRIOR TO SUBMITTING TO ARCHITECT. THESE DRAWINGS SHALL THEN BE SUBMITTED, IN REPRODUCIBLE FORM IN ACCORDANCE WITH REQUIREMENTS OF SPECIFICATIONS, DESIGN DOCUMENTS AND NFPA 13 TO THE ARCHITECT/ENGINEER FOR REVIEW AND FOR APPROVAL. ANY CALCULATIONS AND DRAWINGS REQUIRED BY THE FIRE MARSHAL MUST BE DONE AND SEALED BY A PROFESSIONAL ENGINEER (THE CONTRACTOR'S ENGINEER). CONTRACTOR MUST HAVE FIRE MARSHAL (STATE AND LOCAL) AND ARCHITECT'S ENGINEER'S APPROVAL PRIOR TO THE FABRICATION OF ANY PART OF THE SYSTEM OR ANY CEILING CONSTRUCTION WORK.

THE SPRINKLER CONTRACTOR SHALL, PRIOR TO THE DEMOLITION OF A PHASE OF EACH PORTION OF THE PROJECT, REMOVE AS NEEDED CEILING TILE AND INSPECT AND SURVEY THE PIPING SYSTEM. PREPARE SHOP DRAWINGS OF THE NEEDED REVISIONS TO THE SPRINKLER SYSTEM AND HAVE APPROVED BY THE STATE AND LOCAL BUILDING OFFICIAL IN JURISDICTION OF THE FIRE PROTECTION INSTALLATION.

ALL INSTALLATIONS MUST HAVE LOCAL AND STATE FIRE MARSHAL'S APPROVAL AND BE COORDINATED WITH THE GENERAL CONTRACTOR'S WORK AND PHASES. NEW SPRINKLER HEADS AND DROPS SHALL BE AS SPECIFIED ON CONTRACT FIRE PROTECTION DRAWINGS. ONLY USE SPRINKLER HEAD WRENCHES BY THE MANUFACTURER. PLASTIC HEAD GUARDS TO BE REMOVED ONLY AFTER INSTALLATION.

### SPRINKLER HEADS

A TYPE "A" - SEMI RECESSED ORDINARY COVERAGE HEADS.

- FOR ALL LAY-IN ACCOUSTICAL CEILINGS, PROVIDE ONE OF THE FOLLOWING ASSEMBLIES, WITH SUBMITTED & APPROVED 36" LONG FLEXIBLE DROP OR RIGID ARM OVER TO "A" HEADS.

- TYCO TY3251
- RELIABLE MODEL FI HEAD & MODEL C-FI ESCUTCHEON
- VIKING OR VK302 / VK352 PENDENT.
- VICTAULIC MODEL 34.

- ALL HEADS & ESCUTCHEONS SHALL SHALL MATCH EXISTING AS APPROVED BY ARCHITECT AND OWNER PRIOR TO INSTALLATION. NO PLASTIC PARTS WILL BE ALLOWED IN EITHER COMPONENT.

B.

- PROVIDE ONE OF THE FOLLOWING:

- TYCO TY3551
- RELIABLE G4 CONCEALED, WITH SCREW ADJUSTMENT
- VIKING OR VK462 CONCEALED.
- VICTAULIC MODEL V38 AND V39 (EXTENDED COVERAGE) CONCEALED.

NOTE THAT THE ABOVE MODEL DESIGNATIONS ARE FOR 1/2" ORIFICE HEADS. IF LARGER ORIFICE IS USED, DESIGNATIONS MAY VARY.

C. TYPE "C" - FOR CEILINGS WITH SURFACE MOUNTED LIGHT FIXTURES

- PROVIDE ONE OF THE HEADS SPECIFIED UNDER "A" (ABOVE) BUT WITH AN ELONGATED ESCUTCHEON THAT WILL POSITION THE HEAD AT LEAST 3" BELOW CEILING SURFACE.

- ALL HEADS & ESCUTCHEONS SHALL SHALL MATCH EXISTING AS APPROVED BY ARCHITECT AND OWNER PRIOR TO INSTALLATION. NO ALUMINUM OR PLASTIC PARTS WILL BE ACCEPTED IN EITHER COMPONENT.

D. TYPE "D" - UPRIGHT HEADS

- FOR AREAS WITHOUT A CEILING PROVIDE ONE OF THE FOLLOWING:

- TYCO TY3151
- RELIABLE MODEL C
- VIKING OR VK300 / VK350 BRASS UPRIGHT.
- VICTAULIC MODEL V27 UPRIGHT.

- HEADS SHALL HAVE WIRE GUARD OR DUST COVER AS APPROVED OR DIRECTED BY THE ARCHITECT.

### FIRE REVIEW COMMENTS:

- THE FOLLOWING REVIEW COMMENTS WERE GENERATED BY B. A. BUSH, BUILDING OFFICIAL. PLEASE FEEL FREE TO CONTACT MR. BUSH WITH ANY QUESTIONS OR COMMENTS AT 864-596-2111, BY FAX AT 864-596-2833 OR VIA E-MAIL AT BBUSH@CITYOFSPARTANBURG.ORG.

- FIRE LANE SIGNS AND STRIPPING WILL BE REQUIRED IN FRONT OF SITE HYDRANTS, FIRE DEPARTMENT CONNECTIONS, OR OTHER CRITICAL AREAS SUBJECT TO OBSTRUCTIONS. INDICATE ALL ANTICIPATED FIRE LANES ON THE PLAN. CONTRACTORS SHOULD RECEIVE APPROVAL FOR STRIPPING AND SIGNAGE PRIOR TO INITIATING WORK.

- FIRE ALARM PLANS SHALL BE SUBMITTED TO THE CITY BUILDING DEPARTMENT FOR REVIEW & PERMITTING. FIRE ALARM SYSTEMS MUST BE DESIGNED AND INSTALLED PER IFC & NFPA 72 REQUIREMENTS. (IFC 907.1.1)

- GENERAL FIRE ALARM ITEMS TO NOTE:

- PROVIDE A REMOTE ANNUNCIATOR IN THE IMMEDIATE VICINITY OF THE PRIMARY ENTRY.
- PROVIDE TAMPER SWITCHES AT ALL WATER CONTROL DEVICES, UP TO AND INCLUDING THE BACKFLOW PREVENTION DEVICE OS&Y VALVES (IFC 903.4).
- OFFSITE MONITORING OF THE ALARM SYSTEM WILL BE REQUIRED (IFC 907.6.6)
- WHEN DUCT DETECTORS ARE PROVIDED, THEY WILL INITIATE THE BUILDING ALARM SYSTEM (IFC 907.3.1).
- INSPECTION AND TESTING OF THE SYSTEM WILL BE REQUIRED (IFC 907. 7).
- RECORD OF COMPLETION PAPERWORK IS REQUIRED FOR ALL FIRE ALARM SYSTEMS (IFC 907.7.2).

- SPRINKLER SYSTEMS PLANS FOR NEW AND SUBSTANTIALLY REMODELED SYSTEMS SHALL BE SUBMITTED TO THE CITY BUILDING DEPARTMENT AND THE STATE FIRE MARSHAL'S OFFICE FOR REVIEW & PERMITTING. (IFC 901.2)

- PROVIDE A COPY OF THE ANNUAL TEST AND INSPECTION PAPERWORK, FROM A LICENSED FIRE SPRINKLER CONTRACTOR, FOR THE EXISTING FIRE SPRINKLER SYSTEM(S).

- LABEL THE FIRE DEPARTMENT CONNECTION IN ACCORDANCE WITH THE 2018 IFC SECTION 912.5.

- COMMERCIAL KITCHEN TYPE I EXHAUST HOOD AND DUCT SYSTEMS SHALL BE PROTECTED WITH AN APPROVED AUTOMATIC SUPPRESSION SYSTEM. (IFC 904.2.2, STATE FIRE MARSHAL REGULATIONS)

- COOKING SUPPRESSION SYSTEMS PLANS SHALL BE SUBMITTED TO THE CITY BUILDING DEPARTMENT FOR REVIEW & PERMITTING. (IFC 901.2)

- SUPPRESSION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 2018 IFC SECTION 904 AND THE APPLICABLE SECTIONS OF THE INTERNATIONAL MECHANICAL CODE, APPLICABLE NFPA CODES OR STANDARDS, AND THE SC STATE FIRE MARSHAL'S OFFICE ADOPTED RULES AND REGULATIONS.

- PROVIDE FIRE EXTINGUISHERS IN NEAR GREASE COOKING AREAS THAT ARE COMPATIBLE WITH THE AUTOMATIC FIRE-EXTINGUISHINGSYSTEM AGENT IN ACCORDANCE WITH 2018 IFC SECTION 906.4.

- PROVIDE PORTABLE FIRE EXTINGUISHERS WITHIN A 30-FOOT TRAVEL DISTANCE OF COMMERCIAL-TYPE COOKING EQUIPMENT. COOKING EQUIPMENT INVOLVING VEGETABLE OR ANIMAL OILS AND FATS SHALL BE PROTECTED BY A CLASS K RATED PORTABLE EXTINGUISHER. (IFC 904.11.5)

- EXPOSED GAS VALVES (INTERIOR OR EXTERIOR), SENSITIVE EQUIPMENT (INTERIOR OR EXTERIOR), FIRE HYDRANTS OR FIRE DEPARTMENT CONNECTIONS SHALL BE PROTECTED FROM DAMAGE. (IFC 312.1)

- EMERGENCY GENERATORS POWERING FIRE PUMPS OR LIFE SAFETY SYSTEMS SHALL BE MONITORED BY THE ALARM SYSTEM FOR CONDITIONS WHICH MAY PREVENT THE SYSTEM FROM FUNCTIONING (I.E. LOW FUEL, OVER CRANK, ETC.)

- ELEVATOR SERVICE SHALL BE IN ACCORDANCE WITH 2018 IFC 606.1 (PHASE I AND II CONTROLS).

- ELEVATOR SIGNAGE SHALL BE IN ACCORDANCE WITH 2018 IFC 606.3.

- ELEVATOR KEYS MUST BE PLACED IN AN APPROVED LOCATION PER 2018 IFC 606.7. THIS WILL INCLUDE THE KEYS FOR CAR OPERATION, OPENING ELEVATOR CAR HATCHES OR ACCESS PANELS, AND KEYS TO OPEN EXTERIOR SHAFT DOORS.

- EXPOSED GAS VALVES ADJACENT TO A DRIVABLE SURFACE SHALL BE PROTECTED BY BOLLARDS IN ACCORDANCE WITH 2018 IFC 312.

- INSTALL NFPA 704 PLACARDS OUTSIDE OF THE ENTRY POINT TO A HAZARDOUS STORAGE AREAS OR ROOMS WITHIN A BUILDING. HAZARD SEVERITY NUMBERS FOR INTERIOR SIGNS SHALL BE NOT LESS THAN: 2 INCH TALL, 1.4 INCH WIDE, WITH A 5/16 INCH STROKE. THE EXTERIOR EDGE OF THE SIGN SHALL MEASURE 5 INCH ALONG EACH OF THE FOUR FACES. THE INTERIOR PERIMETER OF EACH INDIVIDUAL DIAMOND SHALL MEASURE 2.5 INCH ACROSS EACH SIDE (IFC 5003.5).

- INSTALL NFPA 704 PLACARDS UPON TWO EXTERIOR WALLS OF THE BUILDING, FACING THE MOST PROBABLE APPROACH DIRECTIONS. EXTERIOR SIGNS SHALL UTILIZE NUMBERS THAT ARE NOT LESS THAN: 6 INCH TALL, 4.2 INCH WIDE, WITH A 15/16 INCH STROKE. THE EXTERIOR EDGE OF THE SIGN SHALL MEASURE 15 INCH ALONG EACH OF THE FOUR FACES. THE INTERIOR PERIMETER OF EACH INDIVIDUAL DIAMOND SHALL MEASURE 7 1/2 INCHES ACROSS EACH SIDE. EXTERIOR SIGNS SHALL BE PLACED NOT LESS THAN 12 FEET OR MORE THAN 24 FEET ABOVE GRADE (IFC 5003.5).

- ONE SET OF INSTALLATION RECORDS FOR FIRE PROTECTION SYSTEMS SHALL BE INSTALLED AT THE PREMISES UPON COMPLETION OF THE PROJECT PER 2018 IFC 901.6.3.1. THE RECORDS SHALL BE PLACED WITHIN A BINDER OR PLAN TUBE, LABELED "FIRE PROTECTION PLANS - DO NOT REMOVE", AND POSTED NEAR THE SPRINKLER RISER, FIRE ALARM PANEL, OR OTHER APPROVED AREA. WE RECOMMEND THAT YOU CONSIDER COMPLETING THIS FOR ONE SET OF BUILDING PLANS.

- THIS BUILDING MUST COMPLY WITH THE REQUIREMENTS OF SECTION 510 OF THE 2018 IFC. EMERGENCY RESPONDER RADIO COVERAGE MUST BE TESTED TO SHOW COMPLIANCE WITH THIS SECTION.

## GENERAL FIRE PROTECTION DESRIPTION

- INFORMATION PRESENTED HERE IS THE TYPICAL INFORMATION REQUIRED FOR A COMMERCIAL BUILDING.
- THIS BUILDING IS EXISTING AND IS BEING RENOVATED FOR AN UPFIT.
- THERE IS NO CHANGE OF USE. SPRINKLER HEAD TYPES AND LOCATIONS WILL BE CHANGED AS NECESSARY TO ACCOMMODATE THE NEW ARCHITECTURAL ARRANGEMENT.
- MORE THAN 20 SPRINKLER HEADS BEING RELOCATED, REMOVED OR ADDED.

## GENERAL FIRE PROTECTION

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF PARTITIONS, CEILING CONFIGURATIONS, LIGHTS, VALANCES, ETC.
- FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
- SPRINKLER CONTRACTOR SHALL COORDINATE CLOSELY WITH FIRE PROTECTION AND ELECTRICAL CONTRACTORS TO AVOID INTERFERENCE WITH OTHER TRADES.
- ANY SPRINKLER SHUT-OFF VALVES OR DRAIN VALVES THAT ARE TO BE ENCLOSED BEHIND WALL, AN ACCESS PANEL SHALL BE PROVIDED.
- VERIFY EXACT LOCATION OF ALL CROSS MAIN PIPING, BOTH VERTICAL AND HORIZONTAL, SO AS NOT TO CONFLICT WITH ARCHITECTURAL DESIGN.
- SPRINKLER SYSTEM SHALL MEET UNDERWRITERS, LOCAL AND STATE AUTHORITIES & THE OWNER'S REQUIREMENTS, AS WELL AS NFPA 13 CODE, LATEST EDITION; LIGHT HAZARD (0.10 GPM/1500 S.F); ORDINARY HAZARD I (0.15 GPM/2000 S.F); ORDINARY HAZARD II (0.20 GPM/2000 S.F) AND/OR "PIPE SCHEDULE" AS ALLOWED BY THE LOCAL AND STATE FIRE MARSHALS.
- SPRINKLER HEADS CONFLICTING WITH RECESSED INCANDESCENT LIGHTS OR TRACK LIGHTS SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR. WHERE HEAD CANNOT BE RELOCATED WITHOUT ADDING A HEAD, LIGHT SHALL BE RELOCATED.
- ALL PIPING SHALL BE HUNG FROM THE STRUCTURAL STEEL. PIPE HUNG FROM BAR JOIST SHALL BE HUNG AT PANEL POINTS. ANY PIPING ABOVE 4" IN SIZE RUNNING PARALLEL TO JOIST MUST BE SUPPORTED FROM ANGLES BETWEEN 2 JOISTS. BEAM CLAMPS ON BAR JOIST NOT ALLOWED.
- SPRINKLER CONTRACTOR SHALL COORDINATE WITH ARCHITECT ON ALL NEW CEILING HEIGHTS, PARTITIONS, CORNICE DETAILS, PHASING, FLOOR FIXTURES, SHELVES, DISPLAYS, AND ANY OTHER BUILDING FEATURES OR CONSTRUCTION ACTIVITY IN THE NEW AREAS THAT WOULD HAVE AN AFFECT ON SPRINKLER HEAD COVERAGE.
- SPRINKLER CONTRACTOR TO INSTALL, BRACE, AND RESTRAIN NEW FIRE SPRINKLER COMPONENTS PER THE SEISMIC REQUIREMENTS OF CHAPTER 16 OF THE 2012 INTERNATIONAL BUILDING CODE. FIRE SPRINKLER CONTRACTOR TO PROVIDE CORRESPONDING SEISMIC DESIGN DOCUMENTS SEALED BY A PROFESSIONAL ENGINEER TO THE ARCHITECT OF RECORD.
- UNLESS A SPRINKLER HEAD HAS TO BE RELOCATED DUE TO AN OBSTRUCTION OR LIGHT, DIFFUSER, ETC. THAT IS NOT IN A SPECIFIC PATTERN, ALL HEADS MUST BE LOCATED IN AN OVERALL SPECIFIC PATTERN. WHERE THE PATTERNS CANNOT BE MAINTAINED WITHOUT ADDING A SPRINKLER HEAD, THE SPRINKLER HEAD MUST BE ADDED AND INCLUDED IN THE CONTRACT PRICE.

### SPRINKLER HEADS

USE QUICK RESPONSE, ORDINARY COVERAGE HEADS PER NFPA 13.

### TEST DRAIN LINES

TEST DRAIN LINES SHALL NOT BE LOCATED IN FINISHED ROOMS OR SPACES. TEST DRAIN LINES SHALL BE PIPED TO EXTERIOR OF BUILDING.

### PIPING IN FINISHED SPACES

ALL PIPING IN FINISHED SPACES OR AREAS SHALL BE CONCEALED WITHOUT EXCEPTION. IN OTHER SPACES OR AREAS, PIPING SHALL BE CONCEALED TO MAXIMUM EXTENT POSSIBLE.

### TESTING & ADJUSTMENTS

COMPLETE SYSTEM SHALL BE RETESTED BY HYDROSTATICALLY TESTING AT 200 PSI IN ACCORDANCE WITH NFPA NO. 13

## SPRINKLER SYSTEM DESIGN CRITERIA

DESIGN CRITERIA						
Area #	Hazard Class	System Type	Max. Area (ft <sup>2</sup> )	Density (gpm/ft <sup>2</sup> )	Inside Hose (gpm)	Inside and Outside Hose Combined (gpm)
ALL AREAS	LIGHT HAZARD	AUTOMATIC WET	52,000	.10/1500	100	100
STORAGE AREAS	ORD. HAZARD 2	AUTOMATIC WET	52,000	.20/2000	100	100
JANITOR CLOSETS	ORD. HAZARD 2	AUTOMATIC WET	52,000	.20/2000	100	100

### NOTES:

- SYSTEM IS EXISTING
- CRITERIA PRESENTED HERE IS FOR ORDINARY LIGHT HAZARD AND ORDINARY HAZARD GROUP 2 OCCUPANCY.

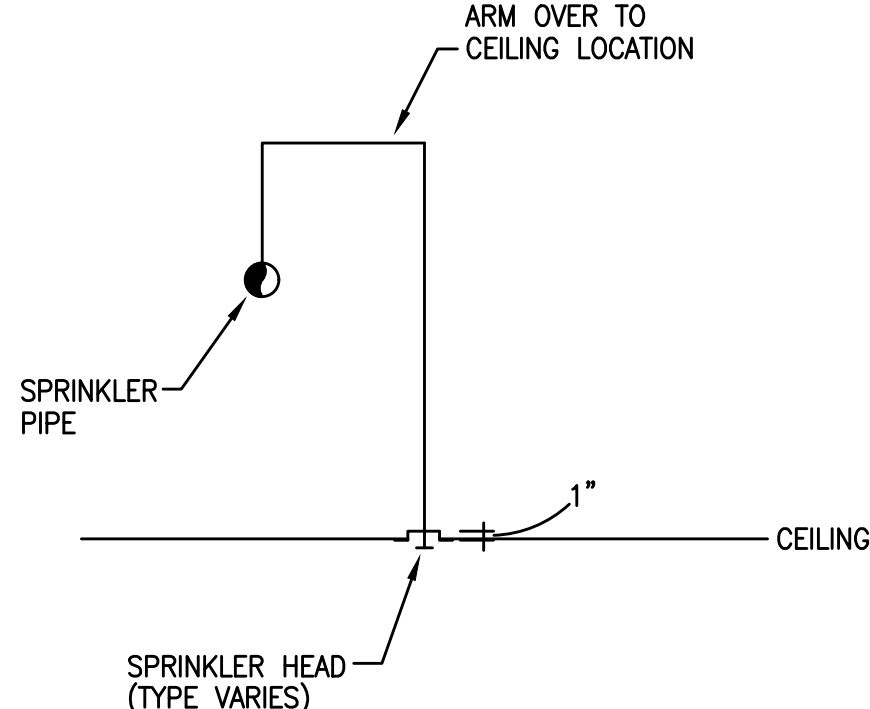
NEW SPRINKLER HEADS ARE TO BE INSTALLED IN ALL NEW AREAS, IN ACCORDANCE WITH NFPA 13, FIRE PROTECTION DETAILS, NOTES, SPECIFICATIONS, AND SHEET 8.60 (THIS SHEET).

SPRINKLER CONTRACTOR SHOULD INCLUDE UP TO 5% MORE HEADS LOCATED THAN SHOWN PLUS THE UNIT COST. CONTRACTOR SHALL REQUEST AND SECURE FOR COORDINATION ALL ARCHITECTURAL FLOOR PLANS, FIXTURE PLANS, SHELVING PLANS, SECTIONS, LIGHTING PLANS, HVAC PLANS AND ANY OTHER PLANS THAT WOULD AFFECT THE DESIGN OF THE SPRINKLER SYSTEM AND HEAD LAYOUT IN THE RENOVATION AREAS OF WORK.

SHOP DRAWINGS SHALL REFLECT COORDINATION WITH THESE OTHER TRADES, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THESE OTHER TRADES.

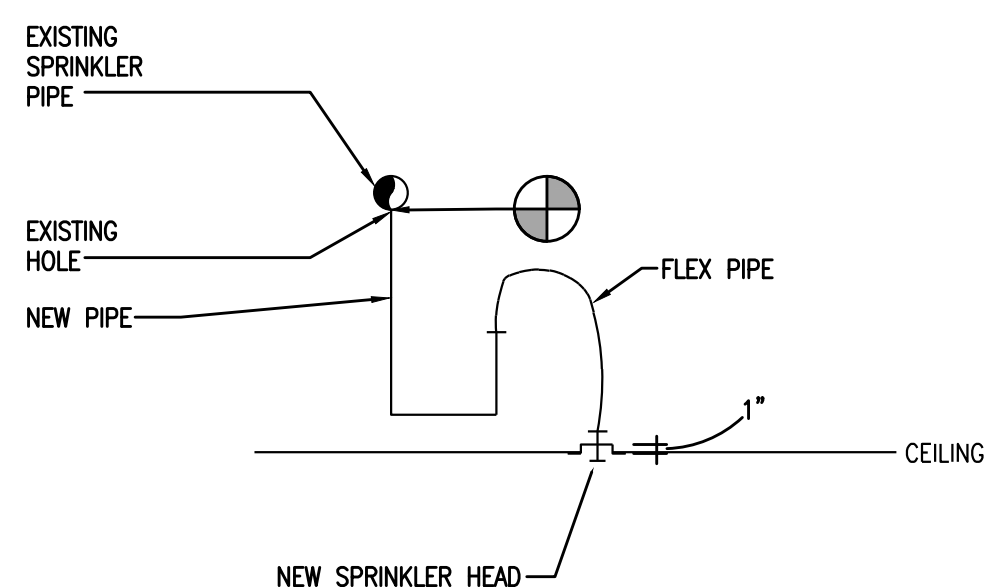
## FIRE PROTECTION DRAWING INDEX

8.60	FIRE PROTECTION NOTES, SCHEDULES AND DETAILS
8.70	FIRE PROTECTION FLOOR PLANS AND NOTES



TYPICAL FOR ALL CEILINGS. TAPS AT PIPE SIDE AND BOTTOM NOT ALLOWED.

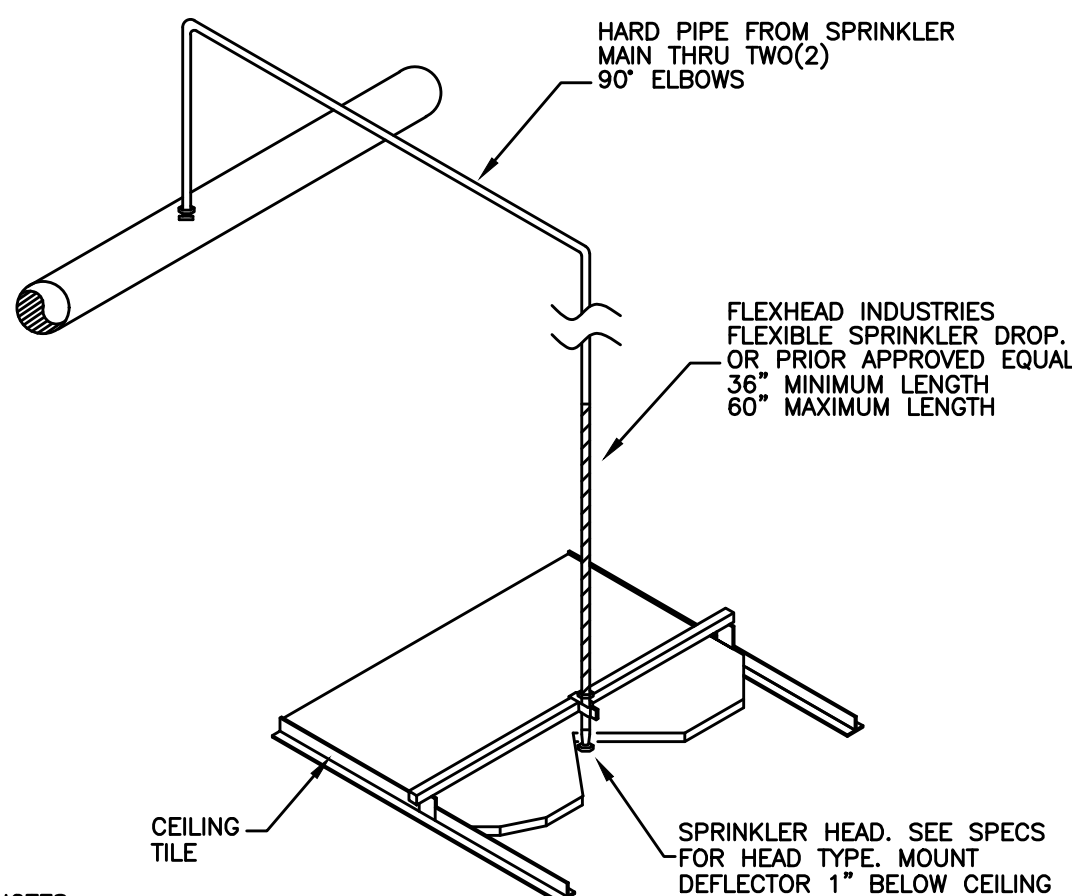
1	TYPICAL SPRINKER HEAD INSTALLATION
8.60	NO SCALE



ALTERNATE SPRINKLER HEAD INSTALLATION FOR RE-USE OF EXISTING TAPS IN EXISTING PIPE WITH NEW RUNOUTS TO NEW SPRINKLER HEADS

2	ALTERNATE SPRINKLER HEAD INSTALLATION
8.60	NO SCALE

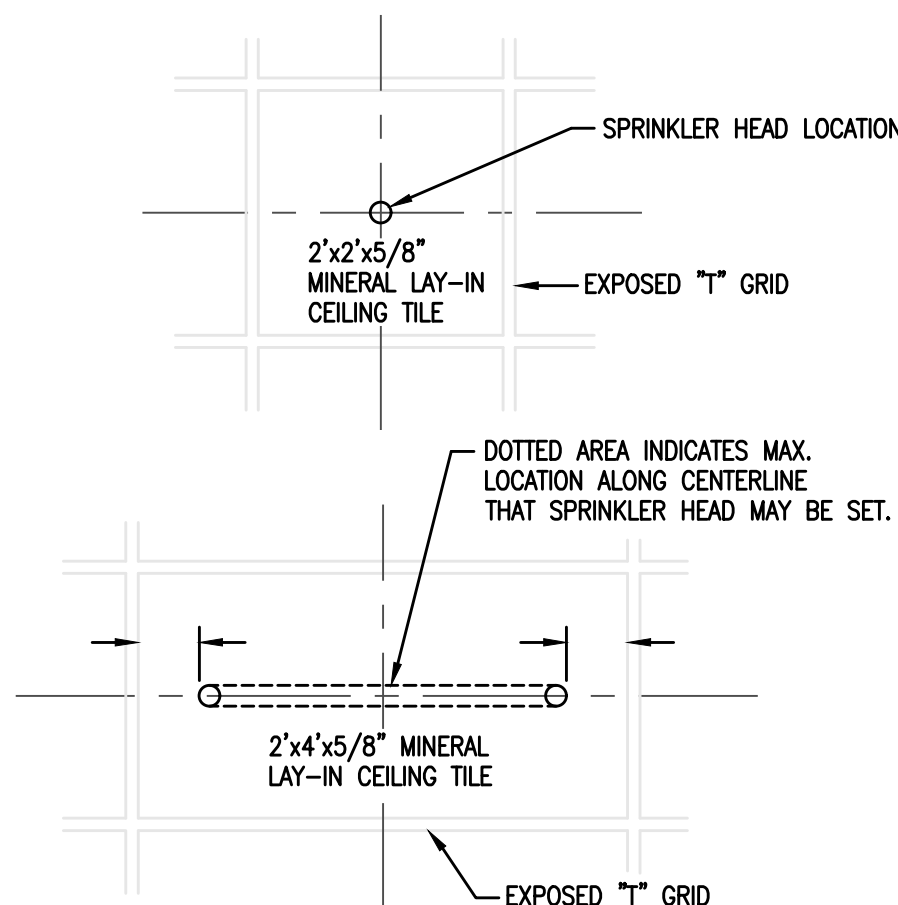
NOTE: CONTRACTOR SHALL SURVEY SPACE AND VERIFY THAT ALL SPRINKLER HEADS (INSTALLED IN CEILING) HAVE ESCUTCHEONS. CONTRACTOR SHALL PROVIDE ESCUTCHEONS AT EVERY HEAD INSTALLED IN CEILINGS THAT DO NOT HAVE ONE. MATCH EXISTING.



### NOTES

- INSTALLATION TO BE IN STRICT COMPLIANCE WITH FLEXHEAD INDUSTRIES RECOMMENDATIONS.
- NO SIDE OR BOTTOM TAPS ALLOWED.

3	TYPICAL DROP CEILING INSTALLATION
8.60	NO SCALE



4	SPRINKLER HEAD LOCATION IN CEILING GRID
8.60	NO SCALE



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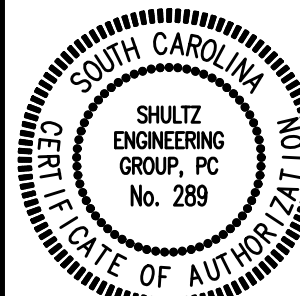
## GENERAL NOTES

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.

WHENEVER THERE ARE DISCREPANCIES BETWEEN DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR CONFLICTS WITHIN THE SPECIFICATIONS AND/OR DRAWINGS, AND SUCH DISCREPANCY IS NOT CALLED TO THE ARCHITECT'S ATTENTION IN TIME TO PERMIT CLARIFICATION BY ADDENDUM, THE CONTRACTOR SHALL BASE HIS BID UPON PROVIDING THE BETTER QUALITY OR GREATER OF WORK OR MATERIAL CALLED FOR, SHALL SUBMIT A WRITTEN STATEMENT WITH HIS PROPOSAL, NOTING SUCH DISCREPANCIES, AND SHALL SO FURNISH AND INSTALL SUCH BETTER QUALITY OR GREATER QUANTITY UNLESS OTHERWISE ORDERED IN WRITING.

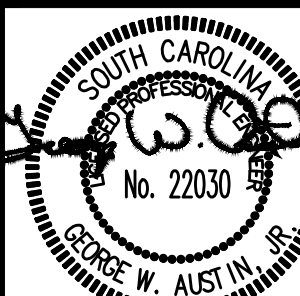
Project No.  
**1599**

Date:  
**02.17.2022**  
Drawn by:  
**DD/ZM/WC/HM**  
Checked by:  
**TP/GA**  
Revisions  
03.16.2022  
ADDENDUM-8



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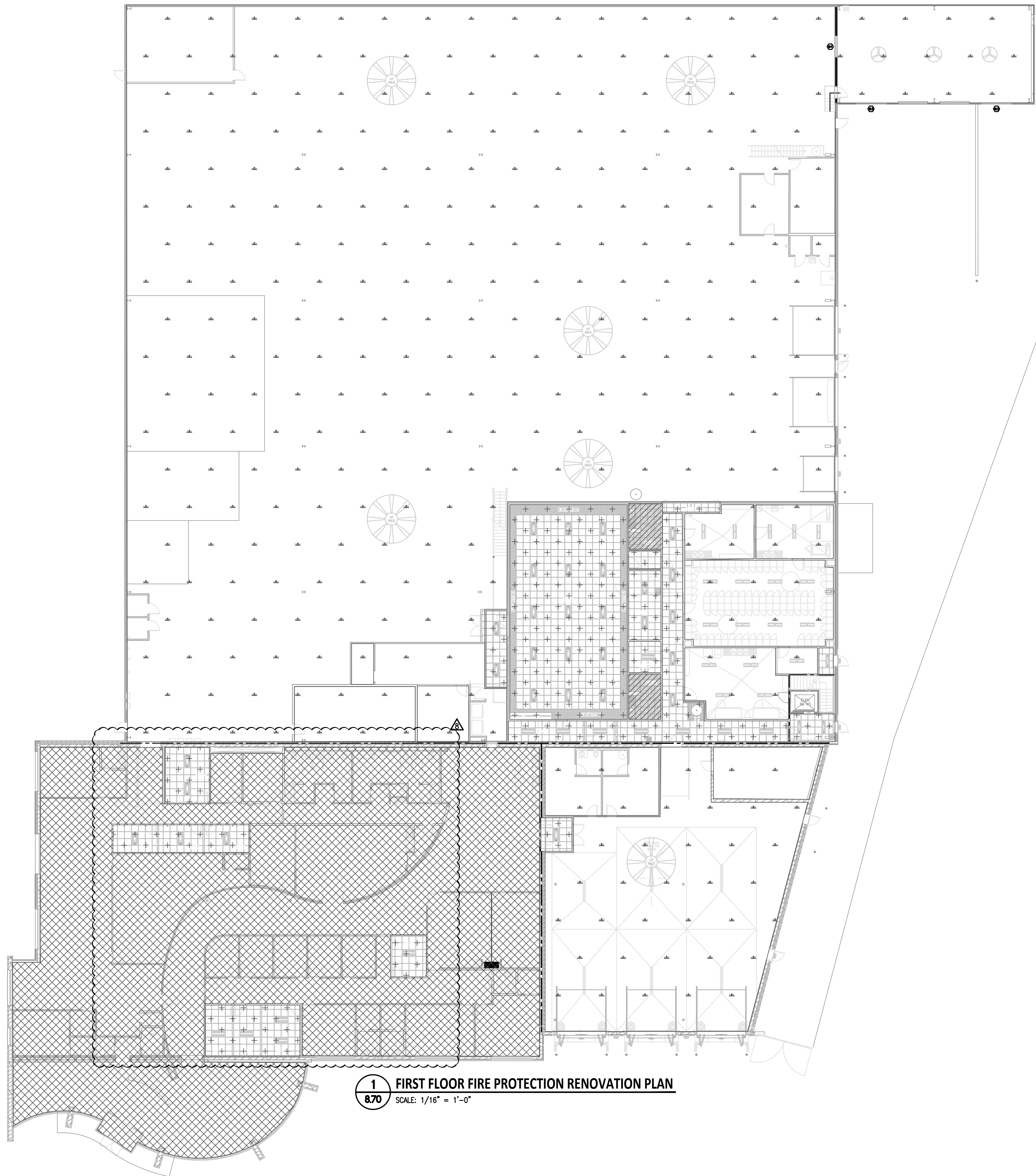
3/16/22

**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

FIRE PROTECTION NOTES,  
SCHEDULES AND DETAILS

Sheet No.  
**8.60**





**1**  
**8.70** **FIRST FLOOR FIRE PROTECTION RENOVATION PLAN**  
SCALE: 1/16" = 1'-0"

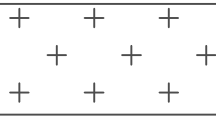
**SPRINKLER NOTES**

1. REFER TO SHEETS 8.60 FOR FIRE PROTECTION DESIGN CRITERIA, NOTES, AND DETAILS.
2. ALL SPRINKLER HEAD LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
3. PROVIDE TEMPERATURE SUPERVISORY SWITCH IN RISER ROOM
4. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE WITH CIVIL, SO THAT REMOTE TAMPER SWITCH LOCATED AT PIV IS MONITORED BY SPRINKLER SYSTEM'S CONTROL PANEL.
5. SPRINKLER SUB CONTRACTOR TO ISSUE SHOP DRAWINGS TO CITY FOR APPROVAL PRIOR TO ANY INSTALLATION

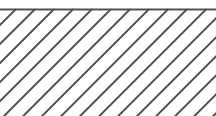
**SPRINKLER PIPING NOTES:**

1. PROVIDE SEISMIC PROTECTION AS REQUIRED BY NFPA 13 (2016)
2. PROVIDE ADDITIONAL HOSE CONNECTIONS PER REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION

**SPRINKLER SYSTEM TYPE LEGEND:**



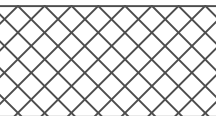
TYPE "A" HEADS - SEMI-RECESSED ORDINARY COVERAGE FOR LAY-IN TYPE CEILINGS



TYPE "B" - CONCEALED HEADS FOR GYPSUM BOARD CEILINGS.



TYPE "D" - UPRIGHT HEADS

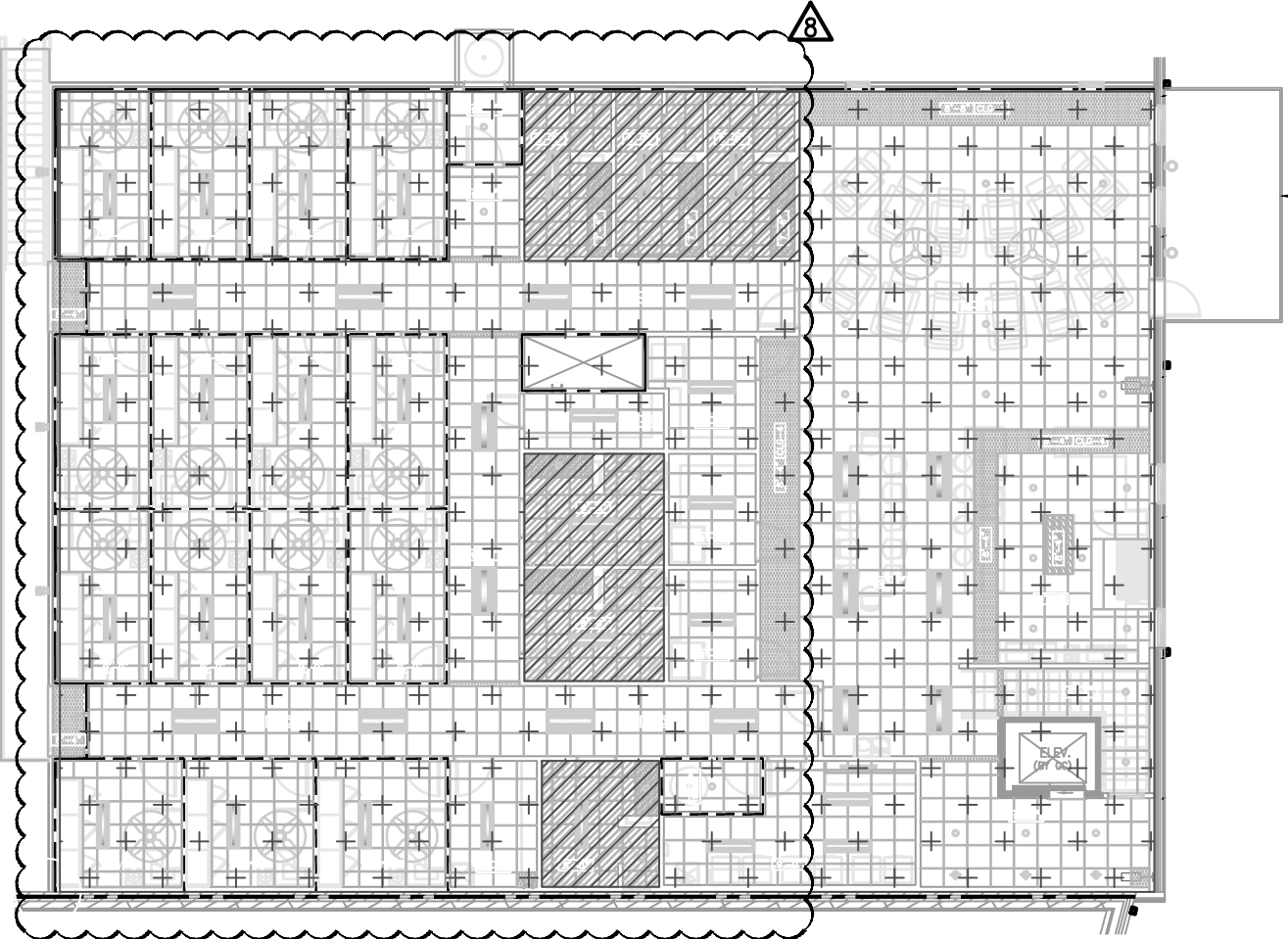


NO WORK THIS AREA

**NOTE:**  
THE HATCH PATTERN SHOWN INDICATES THE TYPE OF SPRINKLER HEAD BEING USED IN A PARTICULAR AREA - NOT THE HEAD SPACING.  
  
COORDINATE HEAD TYPE WITH CEILING TYPE PRIOR TO BID AND PURCHASE. SEE ARCHITECTURAL PLANS FOR CEILING TYPES.

**WALL FIRE RATING**

- 30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
- ===== 1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE EXISTING ROOF, SEE DETAILS IN SHEET 1.70
- ===== EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.



**2**  
**8.70** **MEZZANINE FIRE PROTECTION ADDITION PLAN**  
SCALE: 1/16" = 1'-0"



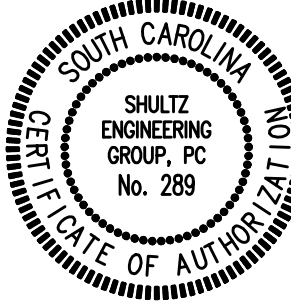
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M: ZM E: WC P: HM

**GENERAL NOTES**

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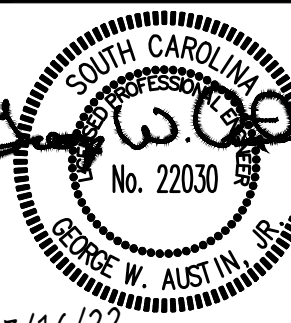
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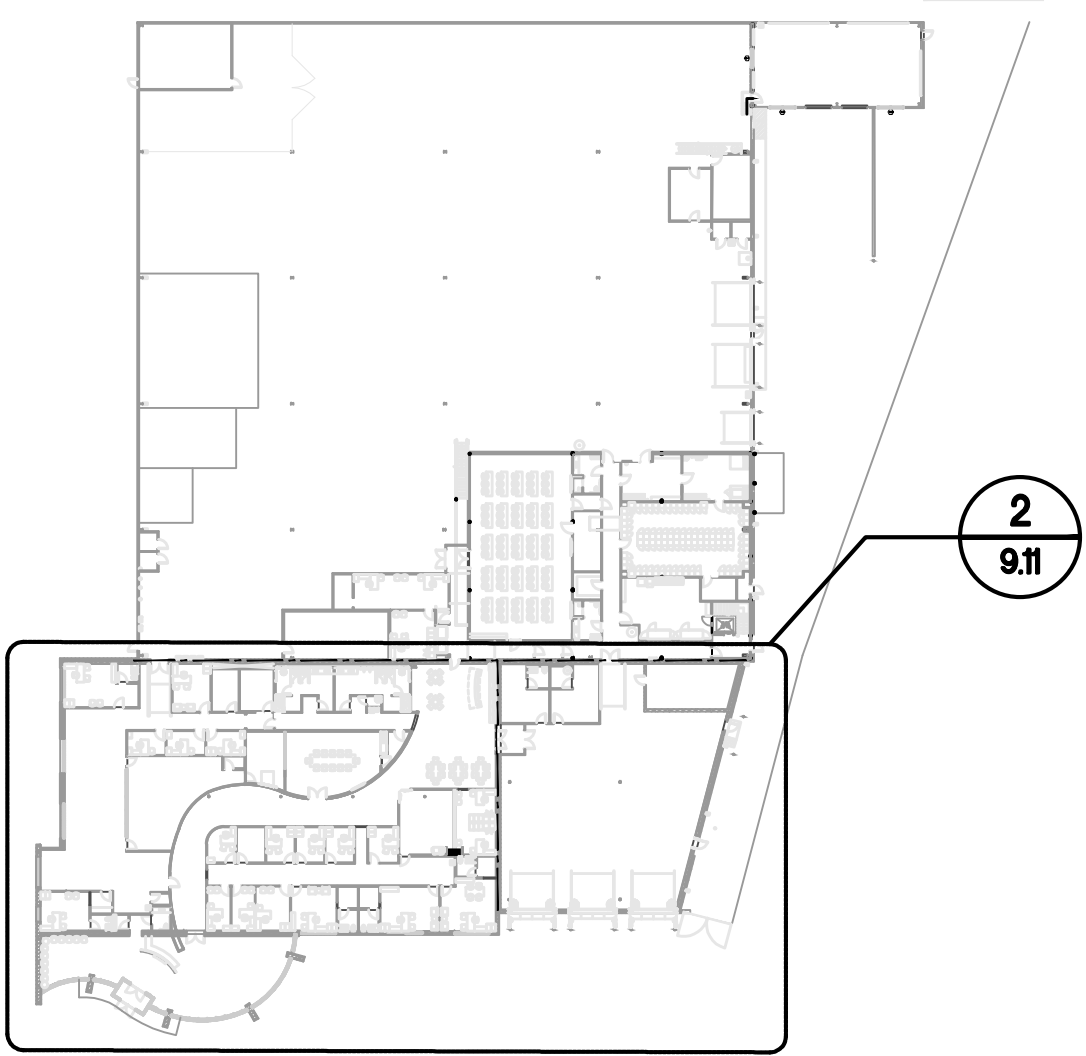


**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

FIRE PROTECTION FLOOR  
PLANS AND NOTES

Sheet No.  
**8.70**





1  
9.11 MECHANICAL KEY PLAN  
SCALE: NTS

### GAS PIPING NOTES

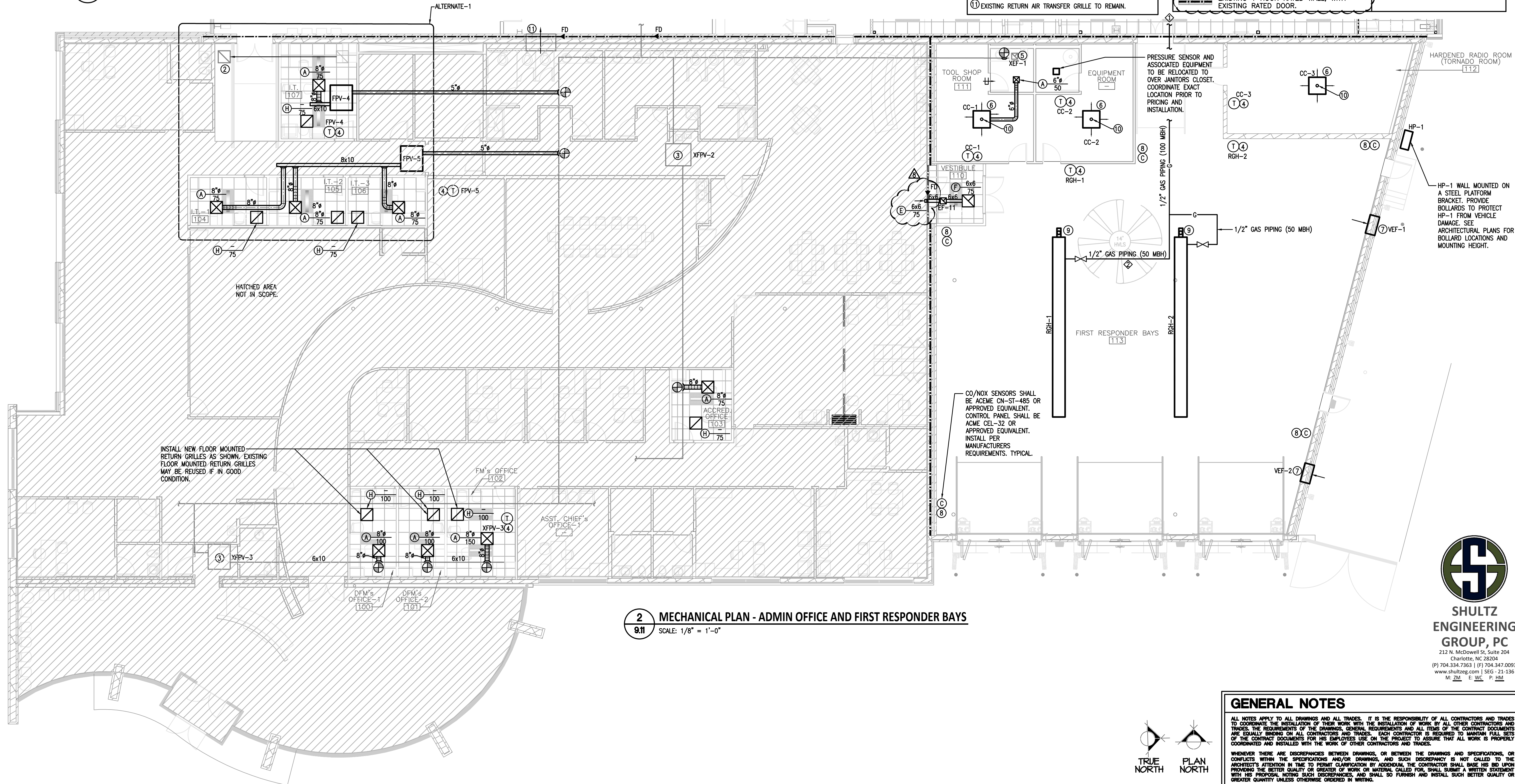
- SEE 2/9.12 FOR CONTINUATION OF GAS PIPING.
- ROUTE GAS PIPING AT AN ELEVATION THAT IT DOES NOT INTERFERE WITH THE HVLS FAN.

### NOTES:

- EXISTING SUPPLY DIFFUSER TO REMAIN. NO WORK.
- RELOCATE EXISTING FLOOR MOUNTED RETURN GRILLE TO NEW LOCATION SHOWN.
- EXISTING FAN POWERED TERMINAL UNIT TO REMAIN. NO WORK.
- COORDINATE EXACT LOCATION OF THERMOSTAT PRIOR TO PRICING AND INSTALLATION.
- EXISTING CEILING MOUNTED EXHAUST FAN TO REMAIN. NO WORK.
- ROUTE 3/4" CONDENSATE TO INDIRECTLY DRAIN AT THE SERVICE SINK. COORDINATE EXACT LOCATION PRIOR TO PRICING AND INSTALLATION.
- VEF-1 AND 2 SHALL BE CONTROLLED IN PARALLEL VIA SENSING EDGE BARS AND CO SENSORS. SENSING EDGE WILL TURN "ON" WHEN OVERHEAD DOOR RAISES AND WILL TURN "OFF" WHEN OVERHEAD DOOR TOUCHES THE FLOOR. SENSING EDGE AND CO SENSOR SHALL WORK IN PARALLEL. WHEN CO SENSORS DETECT CONCENTRATION OF CO JUST BELOW THE MAXIMUM CODE ALLOWABLE LEVEL, VEF-1 AND 2 SHALL CONTINUE TO RUN UNTIL CO LEVELS DROP BELOW THE HAZARDOUS LEVEL OF CONCENTRATION.
- NUMBER AND PLACEMENT OF CO SENSORS SHALL BE PER CO SENSOR MANUFACTURER'S REQUIREMENTS.
- 4" TYPE "B" VENT THROUGH ROOF. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO PRICING AND INSTALLATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER CODE.
- 6" OUTSIDE AIR DUCT UP TO APPROVED ROOF CAP.
- EXISTING RETURN AIR TRANSFER GRILLE TO REMAIN.

### MECHANICAL LEGEND

	EXISTING SUPPLY DIFFUSER	CC	CEILING CASSETTE
	EXISTING RETURN GRILLE	FPV	FAN POWERED VAV BOX
	EXISTING CEILING EXHAUST FAN	(X)	EXISTING
	RELOCATED EXISTING RETURN GRILLE	CFM	CUBIC FEET PER MINUTE
	SUPPLY AIR DIFFUSER	AFF	ABOVE FINISHED FLOOR
	RETURN AIR DIFFUSER	EER	ENERGY EFFICIENCY RATIO
	SIDEWALL SUPPLY AIR GRILLE	SP	STATIC PRESSURE
	RETURN AIR TRANSFER GRILLE	+	CONNECT TO EXISTING
	THERMOSTAT / UNIT CONTROL	+	DOOR UNDER CUT 3/4"
	EXISTING METAL DUCT	(C)	CO/NOX SENSOR
	NEW METAL DUCT	G	GAS PIPING
	NEW ROUND FLEX DUCT	G	EXIST. GAS PIPING
 30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70			GATE VALVE
			PIPE UP
			PIPE DOWN



2  
9.11 MECHANICAL PLAN - ADMIN OFFICE AND FIRST RESPONDER BAYS  
SCALE: 1/8" = 1'-0"

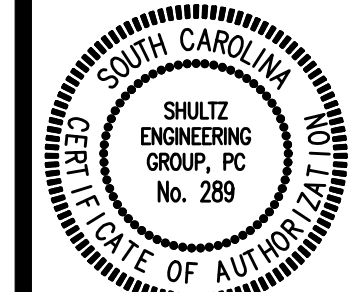
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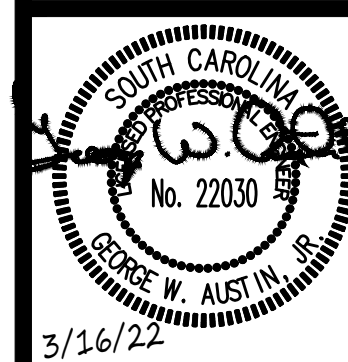
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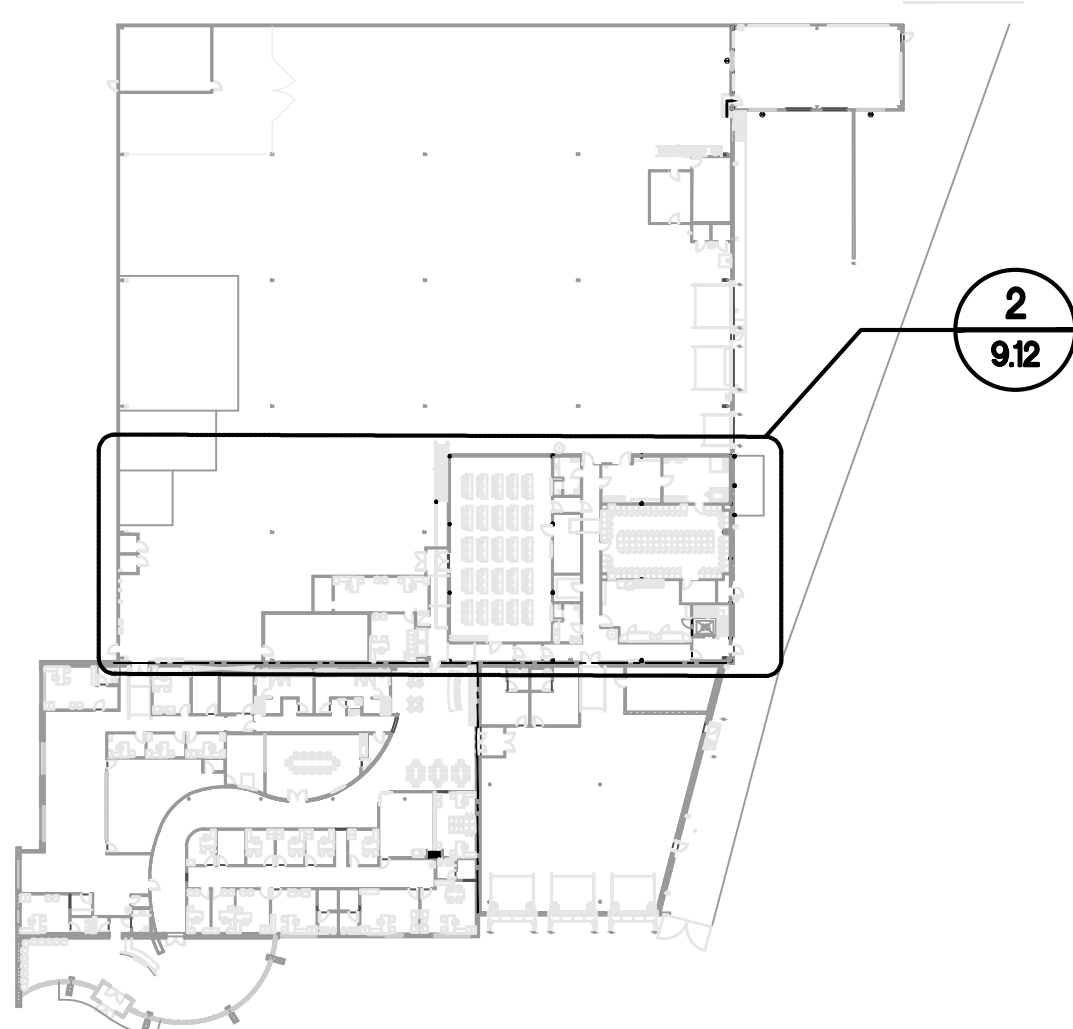
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SPARTANBURG FIRE STATION ONE  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301  
MECHANICAL - ADMIN OFFICE  
AND FIRST RESPONDER BAYS  
RENOVATION PLAN AND NOTES

Sheet No.  
9.11





**1 MECHANICAL KEY PLAN**  
9.12 SCALE: NTS

### GAS PIPING NOTES

- ① SEE 2/9.11 FOR CONTINUATION OF GAS PIPING.
- ② SEE 2/9.13 FOR CONTINUATION OF GAS PIPING.
- ③ SEE 2/9.13 FOR CONTINUATION OF GAS PIPING.
- ④ EXISTING GAS METER TO REMAIN.
- ⑤ 3/4" GAS PIPING DOWN TO GWH-1. SEE 2/8.13 FOR EXACT LOCATION.
- ⑥ ROUTE WATER HEATER FLUE AND VENT PIPE UP CHASE LIKE SHOWN SEE 2/9.15 FOR CONTINUATION.

EXISTING MECHANICAL UNIT INFORMATION (BASED ON SURVEY INFORMATION):

XAHU-1: EXISTING 45 TON SELF CONTAINED AIR HANDLER TO REMAIN.

MECHANICAL CONTRACTOR SHALL SERVICE EXISTING UNITS AND NOTIFY OWNER OF EACH UNIT'S CURRENT CONDITION. EXISTING UNITS SHALL BE REPLACED LIKE FOR LIKE IF REQUIRED. MECHANICAL CONTRACTOR SHALL VERIFY ALL EXISTING MECHANICAL EQUIPMENT INFORMATION AND COORDINATE ALL DEVIATIONS WITH ELECTRICAL CONTRACTOR.

NOTE:  
THE PLYMOVENT SYSTEM SHALL BE PROVIDED UNDER THE GC'S ALLOWANCE. GC SHALL COORDINATE WITH THE OWNER'S CONSULTANTS FOR THE PLYMOVENT SYSTEM AND THE STATION ALERTING & HVAC CONTROL SYSTEMS.

### NOTES:

- ① EXISTING SUPPLY DIFFUSER TO REMAIN. NO WORK.
- ② EXISTING FAN POWERED TERMINAL UNIT TO REMAIN. NO WORK.
- ③ EXISTING AIR HANDLER TO REMAIN. NO WORK.
- ④ LOCATE NEW ROOF MOUNTED EXHAUST FAN WHERE PREVIOUS ROOFTOP UNIT WAS LOCATED. EXISTING ROOF PENETRATION TO BE REUSED.
- ⑤ VEF-3, 4, AND 5 SHALL CONTROLLED IN PARALLEL VIA SENSING EDGE BARS AND CO SENSORS. SENSING EDGE WILL TURN "ON" WHEN OVERHEAD DOOR TOUCHES THE FLOOR. SENSING EDGE AND CO SENSOR SHALL WORK IN PARALLEL. WHEN CO SENSORS DETECT CONCENTRATION OF CO JUST BELOW THE MAXIMUM CODE ALLOWABLE LEVEL, VEF-3, 4, AND 5 SHALL CONTINUE TO RUN UNTIL CO LEVELS DROP BELOW THE HAZARDOUS LEVEL OF CONCENTRATION. INTERLOCK MOTOR OPERATED DAMPERS ON LOUVERS L-2, 3, AND 4 TO VEF-3, 4, AND 5.
- ⑥ NUMBER AND PLACEMENT OF CO SENSORS SHALL BE PER CO SENSOR MANUFACTURER'S REQUIREMENTS.
- ⑦ 4" TYPE "B" VENT THROUGH ROOF. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO PRICING AND INSTALLATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER CODE.
- ⑧ FULL SIZED SUPPLY AND EXHAUST DUCT UP CHASE TO RTU-2 ON ROOF ABOVE. SEE 2/9.14 FOR CONTINUATION.
- ⑨ FULL SIZED SUPPLY AND RETURN DUCT UP CHASE TO RTU-1 ON ROOF ABOVE. SEE 2/9.14 FOR CONTINUATION.
- ⑩ LOCATE RETURN AIR TRANSFER GRILLES AT A HIGHER ELEVATION THAN THE SUPPLY DUCT LOCATED IN THE DROP SOFFIT.

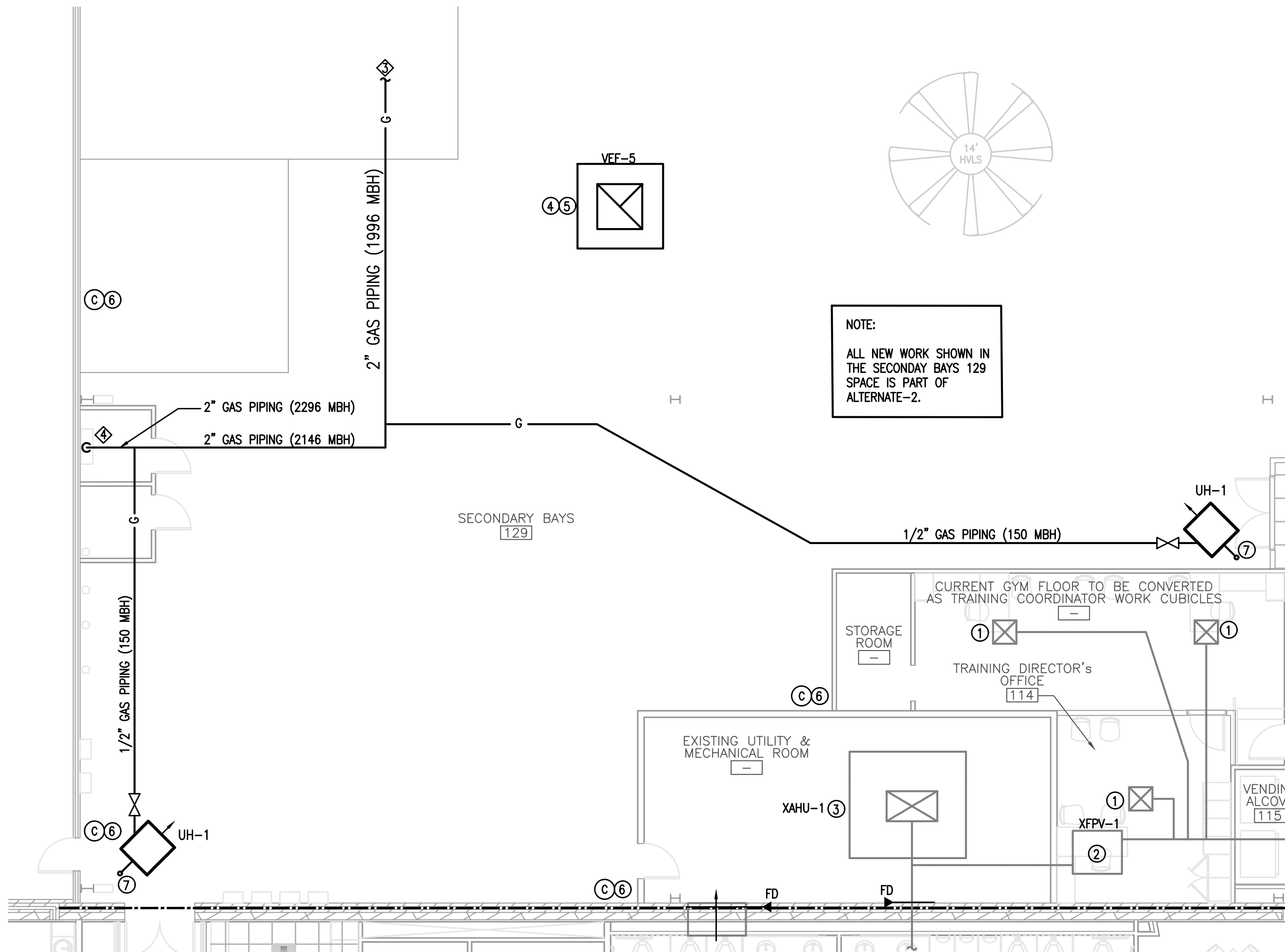
### MECHANICAL LEGEND

	EXISTING SUPPLY DIFFUSER	RTU	PACKAGED ROOFTOP UNIT
	EXISTING RETURN GRILLE	(X)	EXISTING
	SUPPLY AIR DIFFUSER	CFM	CUBIC FEET PER MINUTE
	RETURN AIR DIFFUSER	AFF	ABOVE FINISHED FLOOR
	SIDEWALL SUPPLY AIR GRILLE	EER	ENERGY EFFICIENCY RATIO
	RETURN AIR TRANSFER GRILLE	SP	STATIC PRESSURE
	NEW CEILING EXHAUST FAN	⊕	CONNECT TO EXISTING
	THERMOSTAT / UNIT CONTROL	⊕	DOOR UNDER CUT 3/4"
	EXISTING METAL DUCT	G	GAS PIPING
	NEW METAL DUCT	G	EXIST. GAS PIPING
	NEW ROUND FLEX DUCT		GATE VALVE
			PIPE UP
			PIPE DOWN

30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70

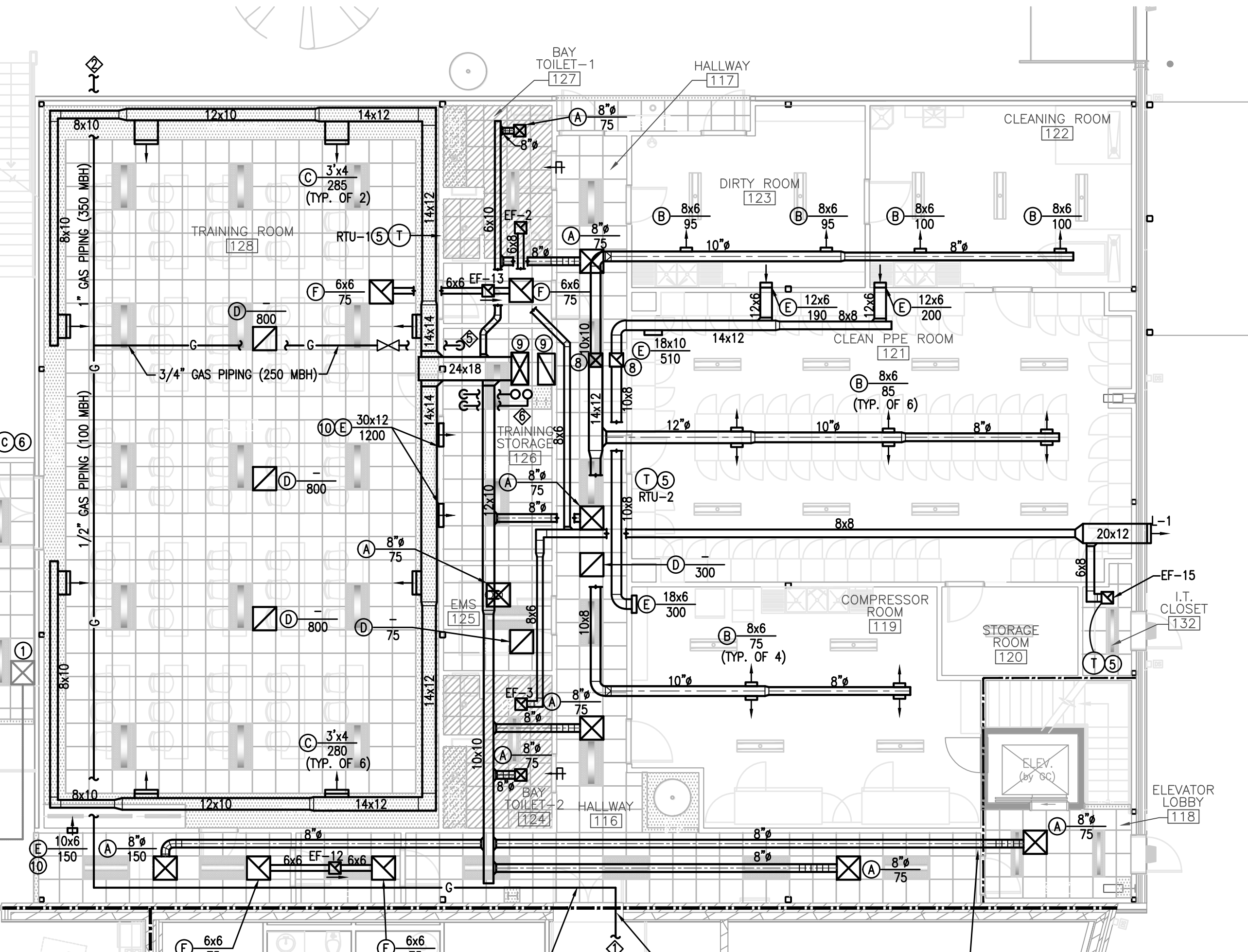
1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE ROOF, SEE DETAILS IN SHEET 1.70

EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.



NOTE:  
ALL NEW WORK SHOWN IN THE SECONDARY BAYS 129 SPACE IS PART OF ALTERNATE-2.

**2 MECHANICAL PLAN - PARTIAL TRAINING ROOM AND BAY SUPPORT AREAS**  
9.12 SCALE: 1/8" = 1'-0"



SEE DETAIL 8/9.21 FOR ALL RATED WALL PIPE PENETRATIONS

DUCTS UNDER 100 SQUARE INCHES THAT PENETRATE RATE ASSEMBLIES SHALL BE FIRE-CAULKED. DUCTS AT 100 SQUARE INCHES OR GREATER SHALL BE PROVIDED WITH A FIRE DAMPER, TYPICAL

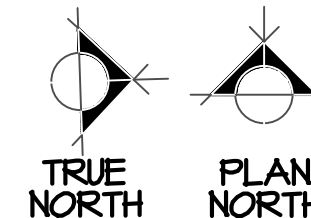


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### GENERAL NOTES

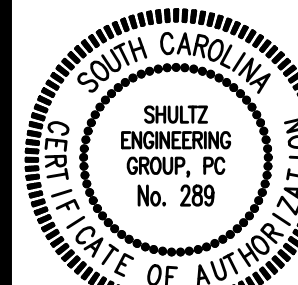
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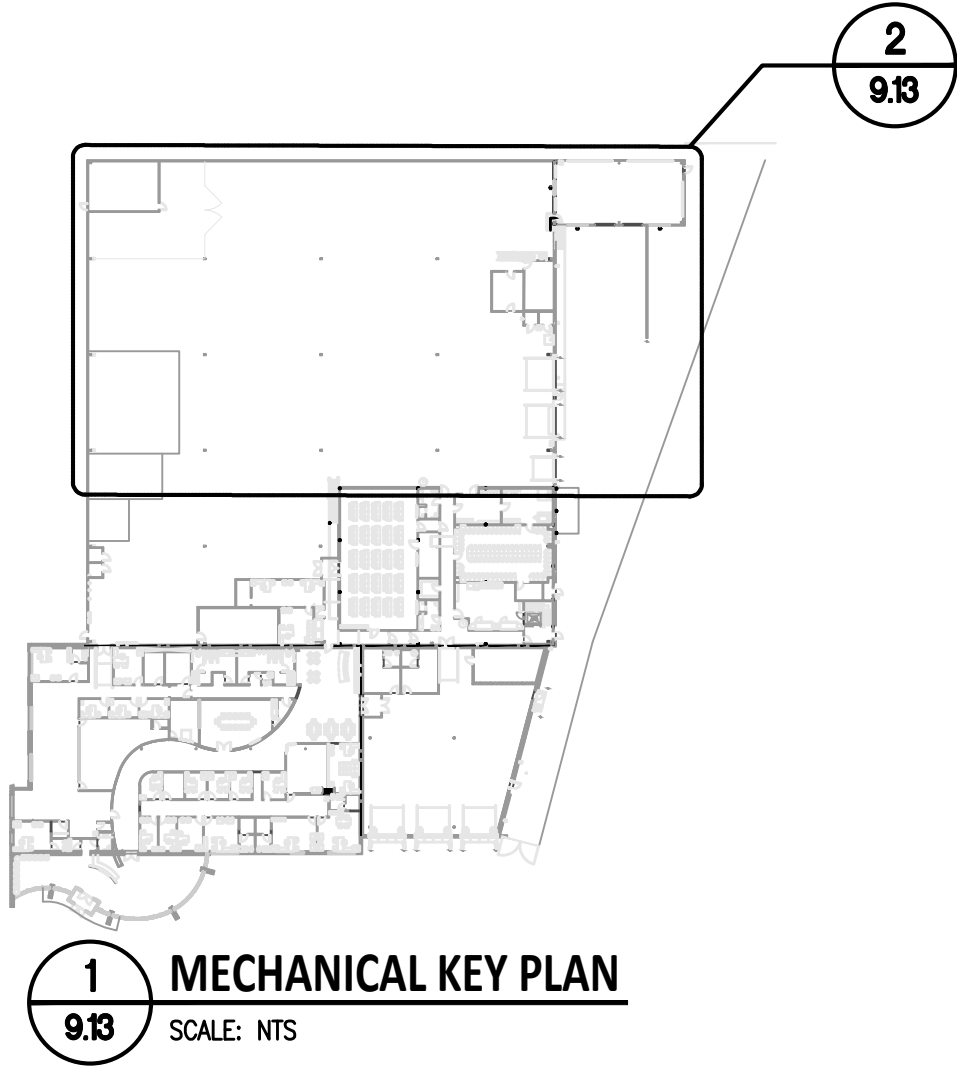


**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

MECHANICAL - TRAINING ROOM  
AND BAYS SUPPORT AREAS  
RENOVATION PLAN AND NOTES

Sheet No.  
**9.12**





1 MECHANICAL KEY PLAN  
SCALE: NTS

### GAS PIPING NOTES

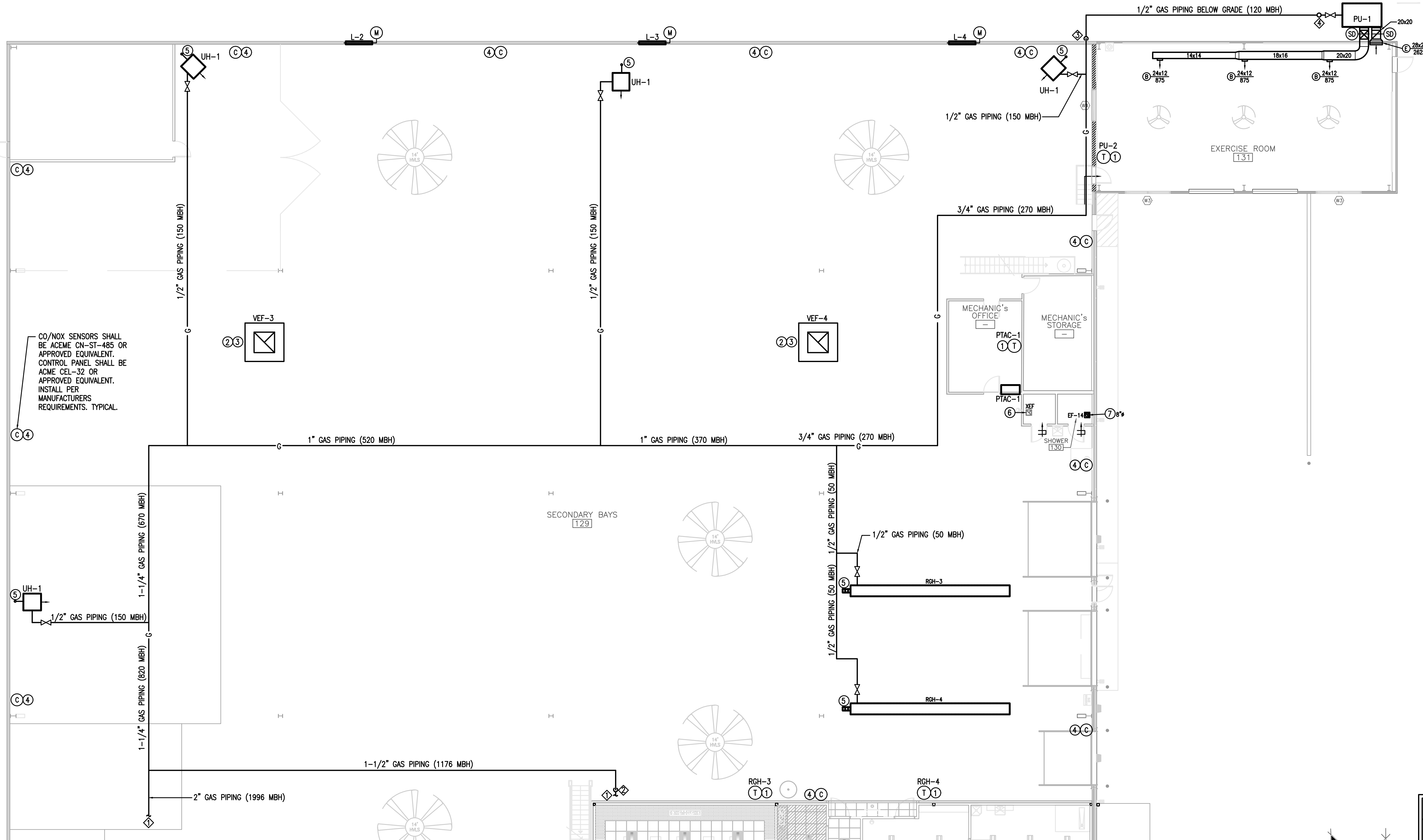
- SEE 2/9.12 FOR CONTINUATION OF GAS PIPING AT TWO LOCATIONS.
- ROUTE GAS PIPING UP TO ABOVE CEILING ON UPPER FLOOR. SEE 2/9.15 FOR CONTINUATION.
- ROUTE GAS PIPING DOWN EXTERIOR WALL TO BELOW GRADE AND TO PACKAGED UNIT. BELOW GRADE GAS PIPING SHALL BE INSTALLED IN CONDUIT OR WRAPPED IN ACCORDANCE WITH FUEL GAS CODE.
- ROUTE GAS PIPING FROM BELOW GRADE UP TO PACKAGED UNIT. COORDINATE EXACT LOCATION PRIOR TO PRICING AND INSTALLATION.

### NOTES:

- COORDINATE EXACT LOCATION OF THERMOSTAT PRIOR TO PRICING AND INSTALLATION.
- LOCATE NEW ROOF MOUNTED EXHAUST FAN WHERE PREVIOUS ROOFTOP UNIT WAS LOCATED. EXISTING ROOF PENETRATION TO BE REUSED.
- VEF-3, 4, AND 5 SHALL BE CONTROLLED IN PARALLEL VIA SENSING EDGE BARS AND CO SENSORS. SENSING EDGE WILL TURN "ON" WHEN OVERHEAD DOOR RAISES AND WILL TURN "OFF" WHEN OVERHEAD DOOR TOUCHES THE FLOOR. SENSING EDGE AND CO SENSOR SHALL WORK IN PARALLEL WHEN CO SENSORS DETECT CONCENTRATION OF CO JUST BELOW THE MAXIMUM ALLOWABLE LEVEL. VEF-3, 4, AND 5 SHALL CONTINUE TO RUN UNTIL CO LEVELS DROP BELOW THE HAZARDOUS LEVEL OF CONCENTRATION. INTERLOCK MOTOR OPERATED DAMPERS ON LOUVERS L-2, 3, AND 4 TO VEF-3, 4, AND 5.
- NUMBER AND PLACEMENT OF CO SENSORS SHALL BE PER CO SENSOR MANUFACTURER'S REQUIREMENTS.
- 4" TYPE "B" VENT THROUGH ROOF. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO PRICING AND INSTALLATION. INSTALL PER MANUFACTURE'S RECOMMENDATIONS AND PER CODE.
- EXISTING EXHAUST FAN TO REMAIN - NO WORK.
- ROUTE NEW 8" EXHAUST DUCT TO EXISTING EXHAUST SYSTEM. COORDINATE EXACT LOCATION OF CONNECTION PRIOR TO PRICING AND INSTALLATION.

### MECHANICAL LEGEND

	SUPPLY AIR DIFFUSER	PU	PACKAGED ROOFTOP UNIT
	RETURN AIR DIFFUSER	PTAC	PACKAGED TERMINAL AIR CONDITIONER
	SIDEWALL SUPPLY AIR GRILLE	CFM	CUBIC FEET PER MINUTE
	RETURN AIR TRANSFER GRILLE	AFF	ABOVE FINISHED FLOOR
	NEW EXHAUST FAN	EER	ENERGY EFFICIENCY RATIO
	THERMOSTAT / UNIT CONTROL	SP	STATIC PRESSURE
	NEW METAL DUCT	M	MOTOR OPERATED DAMPER
	NEW ROUND FLEX DUCT	C	CO/NOX SENSOR
	DOOR UNDER CUT 3/4"	SD	DUCT SMOKE DETECTOR
	30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70	G	GAS PIPING
	1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE ROOF, SEE DETAILS IN SHEET 1.70	G	EXIST. GAS PIPING
	EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.		GATE VALVE
			PIPE UP
			PIPE DOWN
		C	CONDENSATE PIPE



2 MECHANICAL PLAN - SECONDARY BAYS AND EXERSISE ROOM  
SCALE: 3/32" = 1'-0"

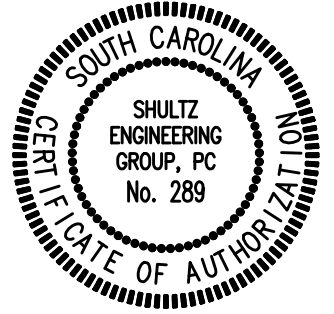
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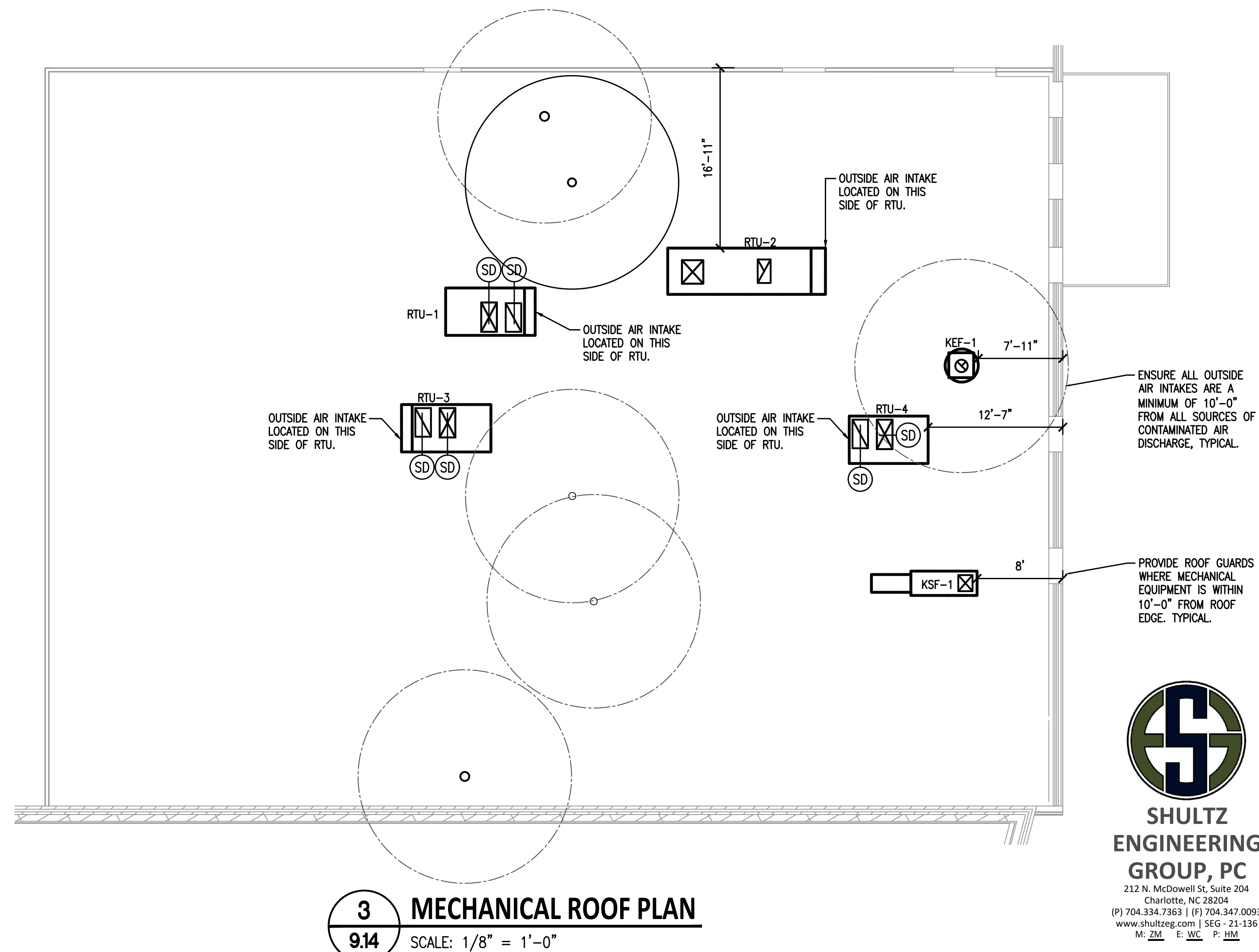
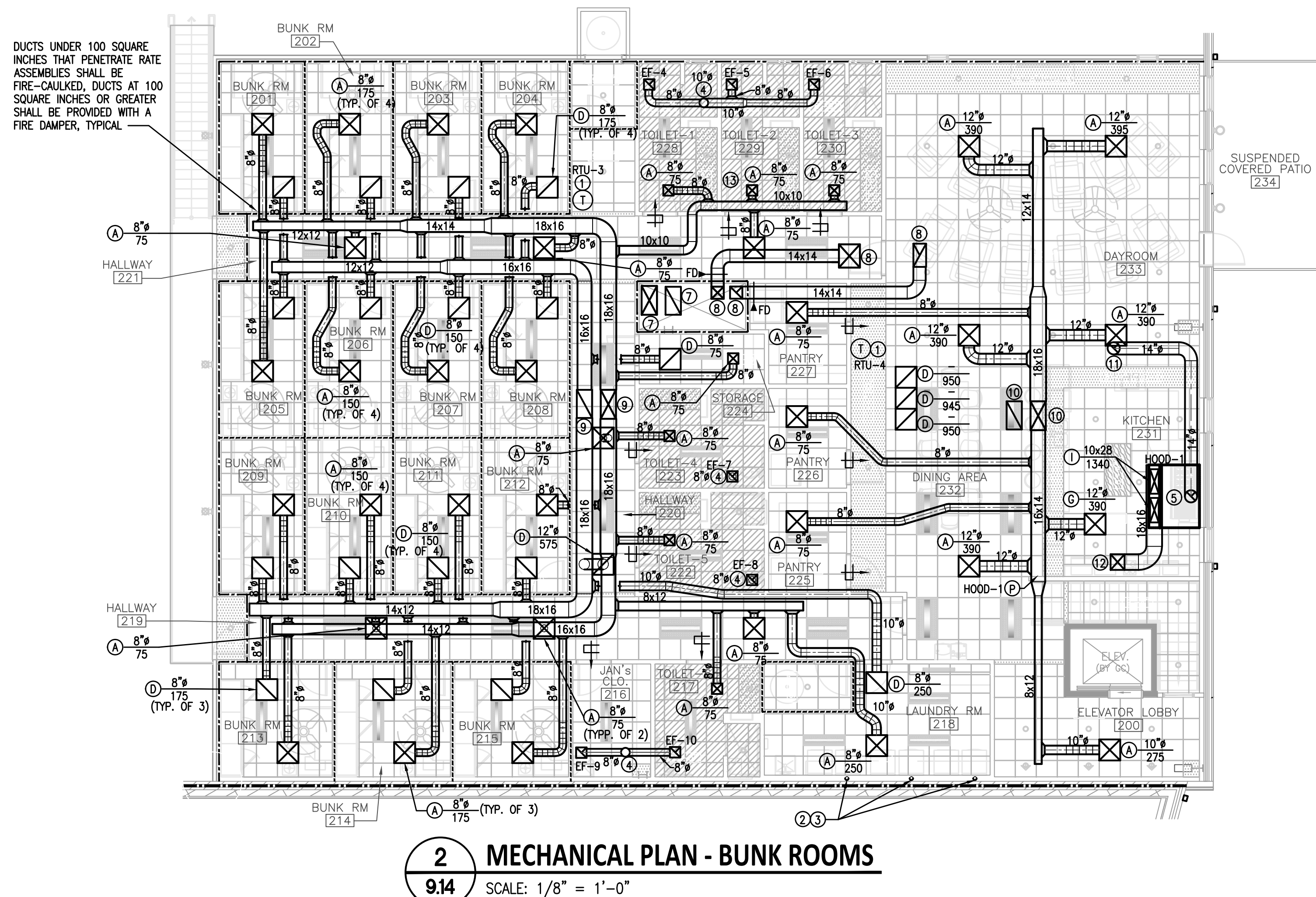
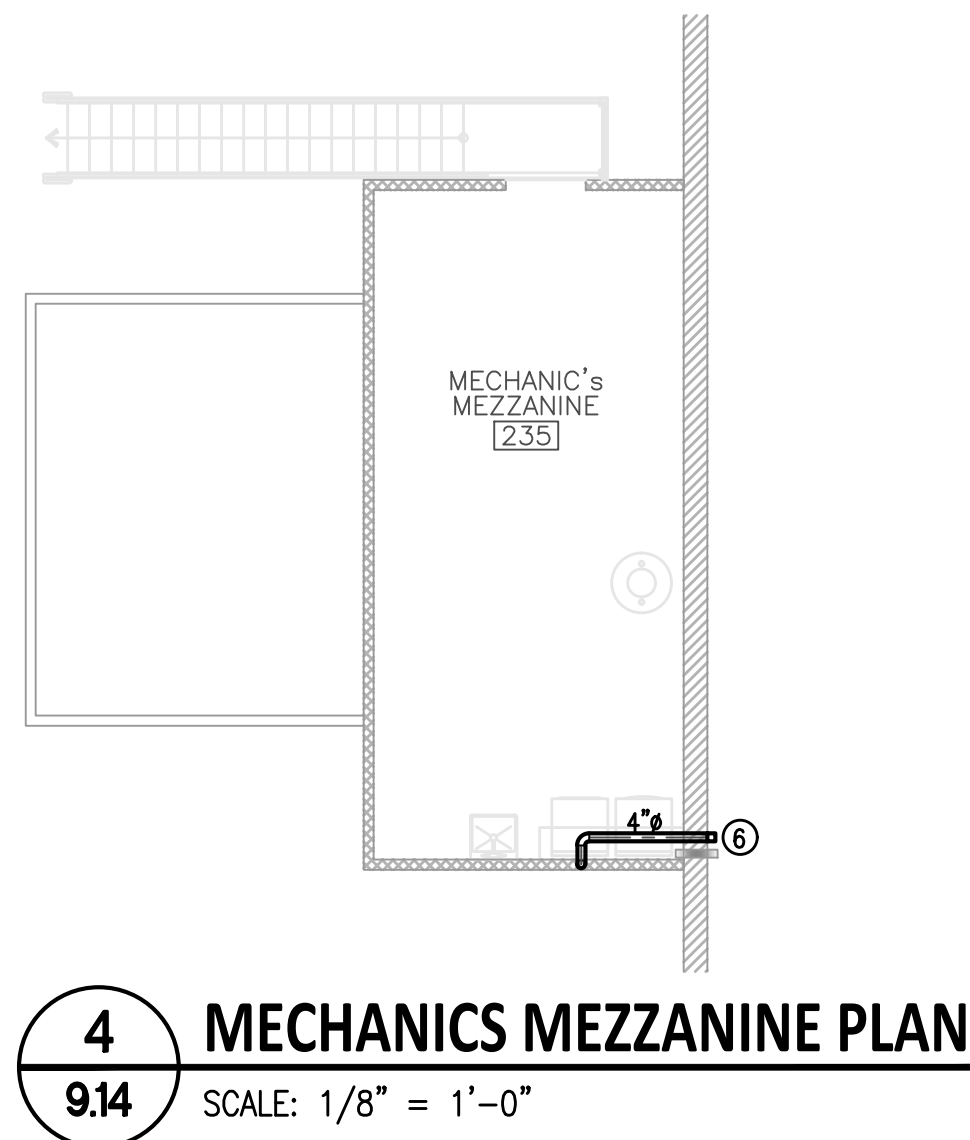
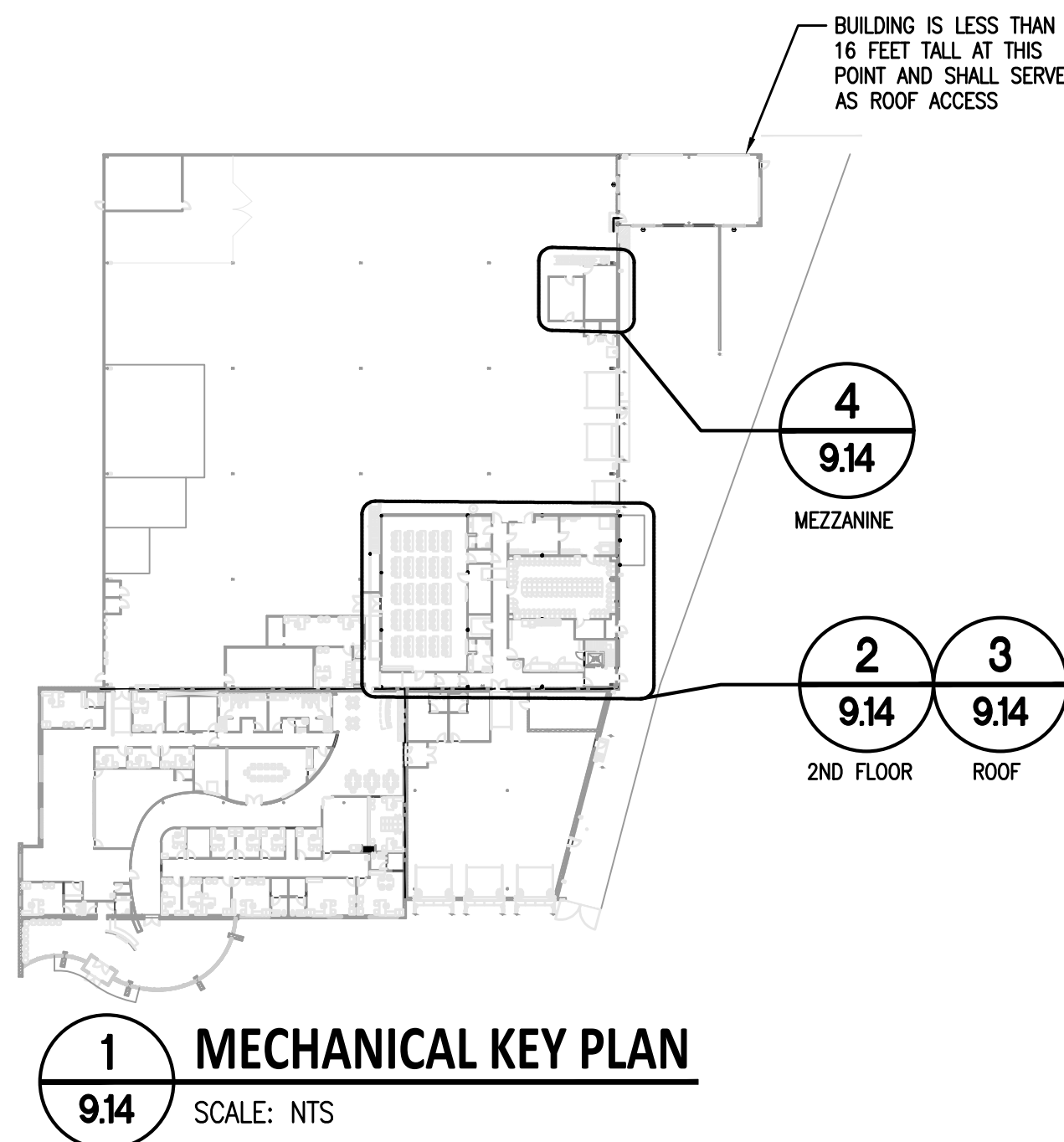


SPARTANBURG FIRE STATION ONE  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

MECHANICAL - SECONDARY  
BAYS AND EXERCISE ROOM  
RENOVATION PLAN AND NOTES

Sheet No.  
9.13

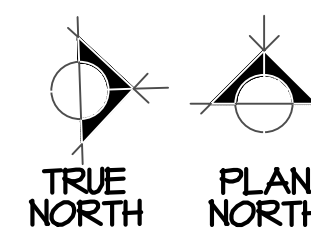




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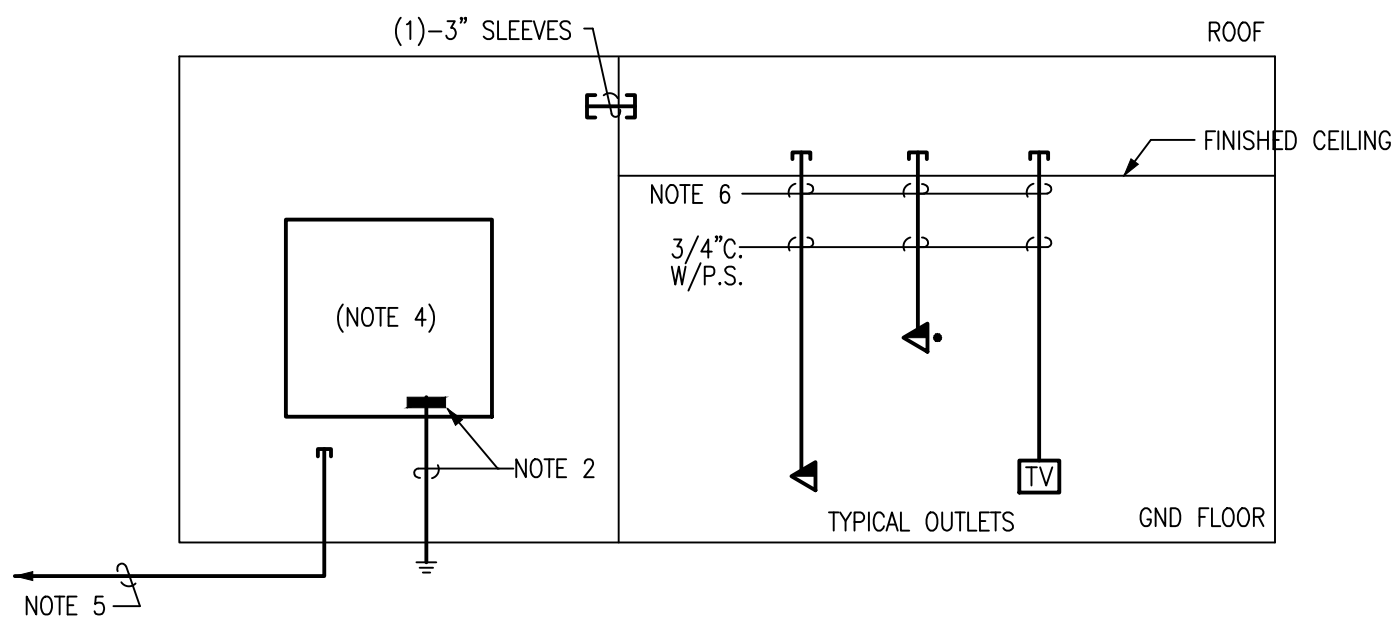
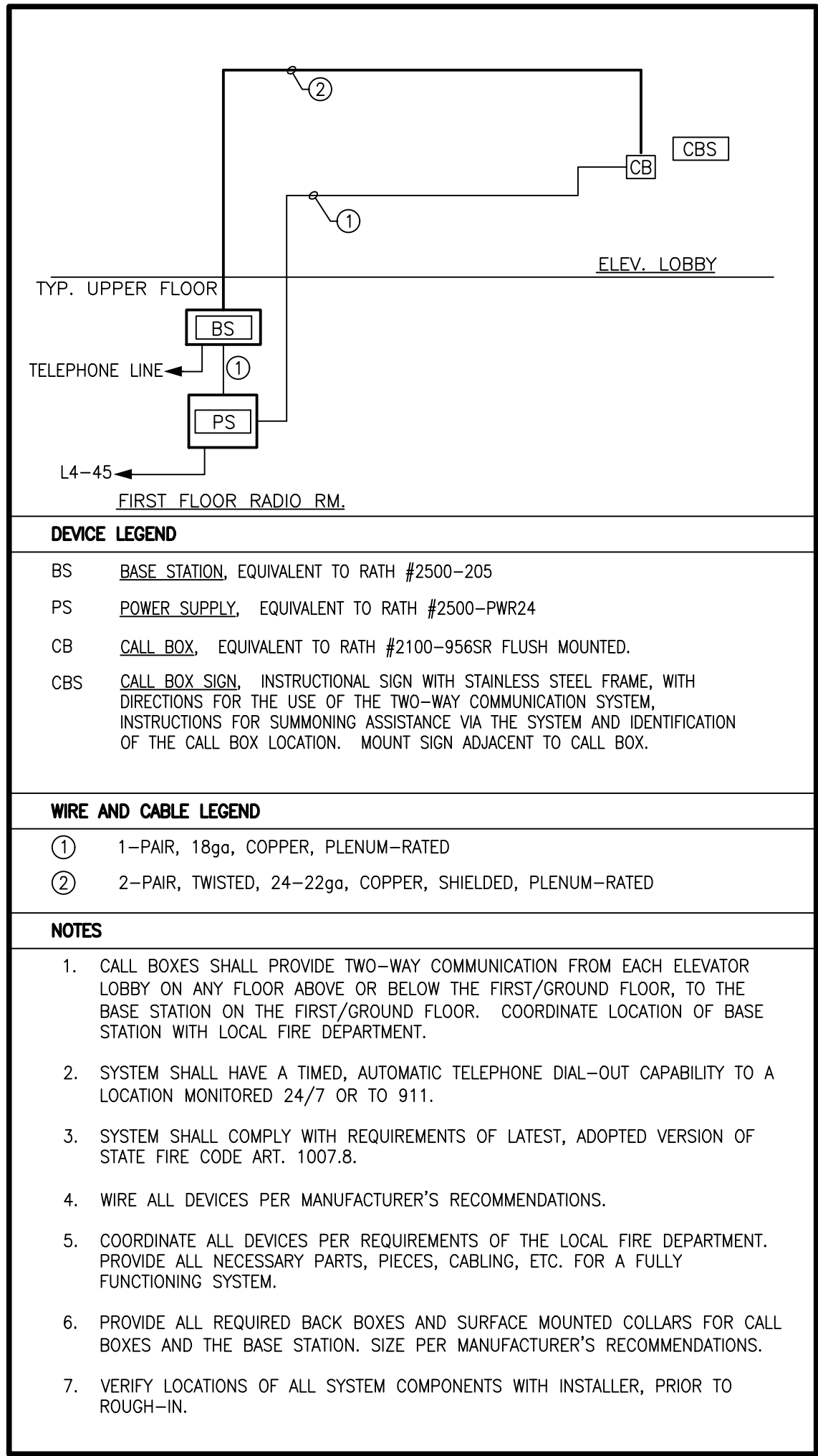
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**MECHANICAL - BUNK ROOMS, MECHANIC'S MEZZANINE RENOVATION PLANS, ROOF PLAN AND NOTES**

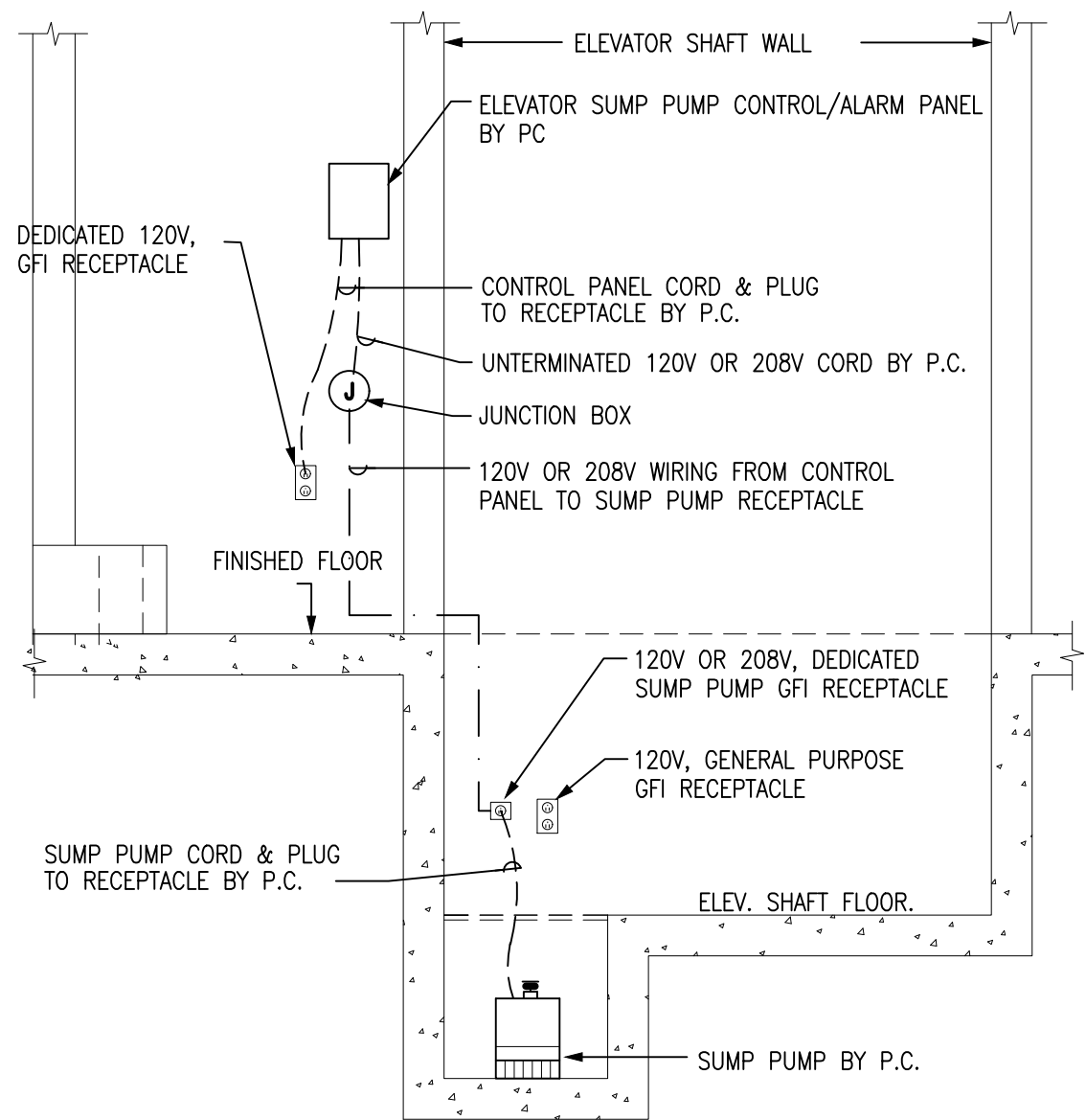
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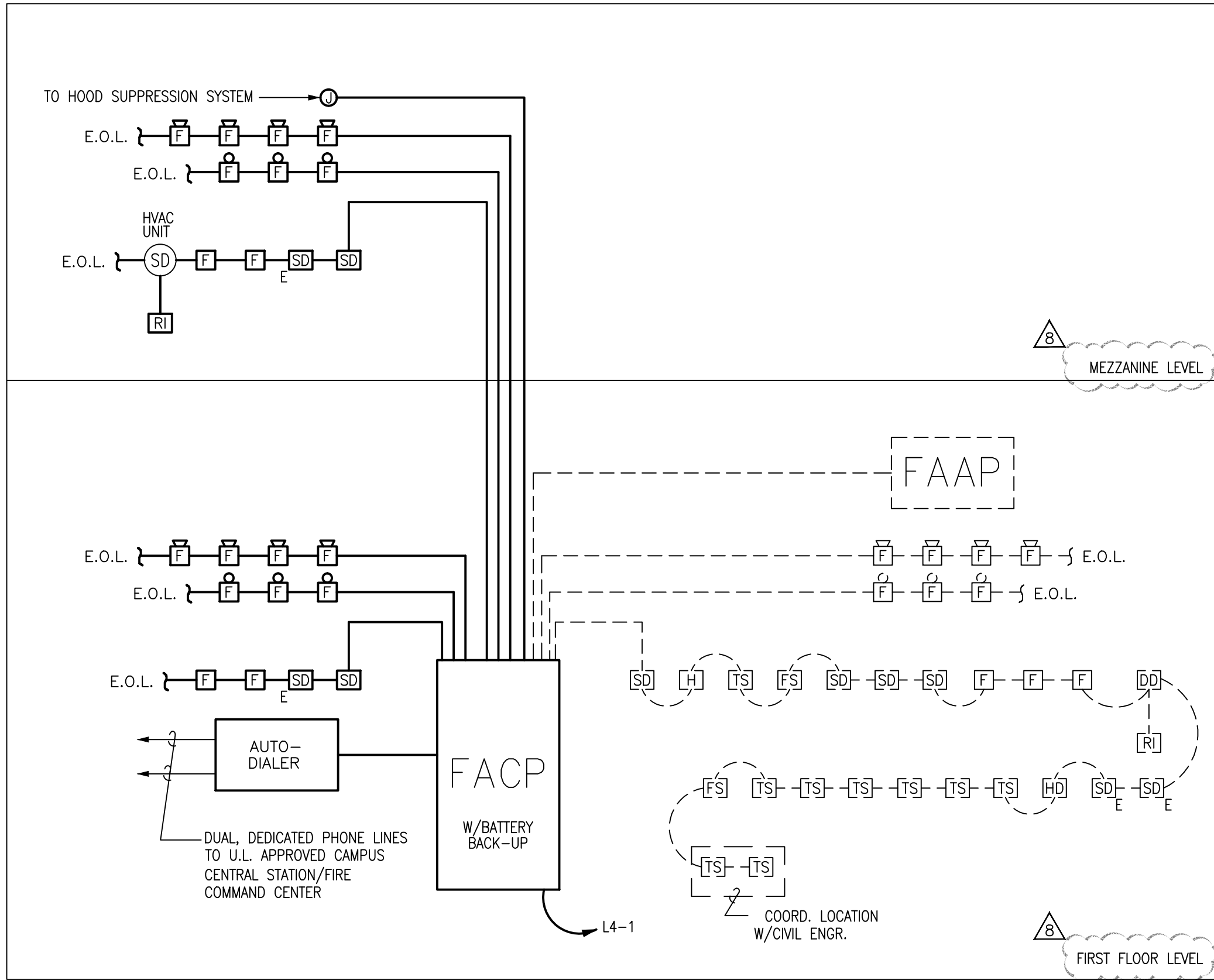
TELEPHONE/DATA/CATV SYSTEM RISER DIAGRAM NOTES:

- TELEPHONE SERVICE REQUIREMENTS SHALL BE COORDINATED WITH OWNER AND LOCAL TELEPHONE COMPANY.
- PROVIDE GROUND BUS ON TERMINAL BOARD AND EXTEND MINIMUM #6 CU GROUNDING CONDUCTOR FROM GROUND BUS TO SERVICE GROUND.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TERMINAL BOARDS, RACEWAYS, OUTLETS BOXES, ETC. AS REQUIRED. CABLING, JACKS, PATCH PANELS, COMPUTERS, SERVERS, PATCH CABLES ETC. TO BE PROVIDED BY OTHERS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL FIRE-RETARDANT 3/4" PLYWOOD TERMINAL BOARD AT LOCATION SHOWN ON PLANS. PAINT PLYWOOD WITH TWO COATS OF FIRE-RETARDANT, GRAY, ENAMEL PAINT. FIELD VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- VERIFY EXACT REQUIREMENTS PRIOR TO WORK.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT FROM EACH TELEPHONE/DATA/CATV OUTLET BOX, AND STUB THEM OUT ABOVE NEAREST ACCESSIBLE CEILING. CONDUITS/SLEEVES SHALL BE PROVIDED AS NEEDED FROM INTERIOR ROOMS INTO ACCESSIBLE CEILING SPACE, IF ACCESSIBLE CEILINGS ARE NOT READILY AVAILABLE, EXTEND CONDUITS BACK TO TELE/DATA TERMINAL BOARD.



ELEVATOR SUMP PUMP DIAGRAM

SCALE: N.T.S.

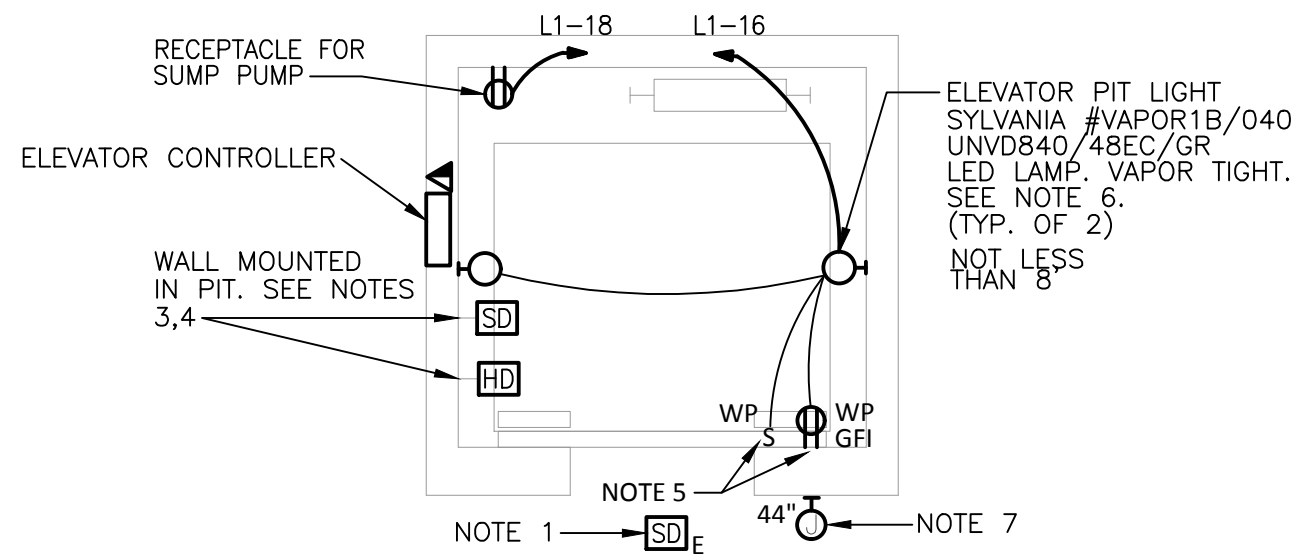


FIRE ALARM RISER DIAGRAM

NOT TO SCALE

FIRE ALARM SYSTEM RISER NOTES

- EXISTING FIRE ALARM SYSTEM SHALL BE REPLACED WITH NEW. NEW SYSTEM SHALL BE COMPATIBLE WITH EXISTING DEVICES TO REMAIN.
- ALL FIRE ALARM INITIATING DEVICES SHALL BE ADDRESSABLE TYPE.
- ALL FIRE ALARM WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.
- IF REQUIRED, CONFIRM NUMBER AND LOCATIONS OF ALL TAMPER AND FLOW SWITCHES WITH SPRINKLER CONTRACTOR AND CIVIL ENGINEER PRIOR TO ROUGH-IN.
- FIRE ALARM SYSTEM DETECTORS ASSOCIATED WITH ELEVATORS SHALL BE WIRED AS FOLLOWS:
  - ACTIVATION OF ANY SMOKE DETECTOR IN ELEVATOR LOBBIES, EQUIPMENT ROOMS OR SHAFTS SHALL SIGNAL ELEVATOR CONTROLS TO "HOME" AFFECTED ELEVATOR.
- INSTALLATION OF ALL WIRING AND DEVICES SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY CODES AND NFPA CODES.
- FIRE ALARM SYSTEM EQUIPMENT SHALL BE PROVIDED WITH INTEGRAL BATTERY BACK-UP.
- BUILDING FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA 72 AND STATE FIRE CODE.
- UPON FIRE ALARM SYSTEM GOING INTO ALARM, ALL DOOR SECURITY MAG-LOCKS AND ALL DOOR HOLD-OPENS SHALL BE RELEASED, ALLOWING SECURITY DOORS TO OPEN AND FIRE DOORS TO CLOSE.



ELEVATOR PIT DIAGRAM

SCALE: N.T.S.

(TYPICAL)

NOTES:

- MOUNT IN ELEVATOR LOBBY AT EACH LEVEL WITHIN 15'-0" OF DOOR.
- COORDINATE EXACT LOCATION OF ALL DEVICES WITH THE ELEVATOR SHOP DRAWINGS.
- MOUNT SMOKE AND HEAT DETECTORS WITHIN 2'-0" OF SPRINKLER HEADS. SMOKE DETECTORS SHALL, UPON ALARM, RE-CALL ELEVATOR TO THE APPROPRIATE LEVEL, AND LOCK OUT ELEVATOR VIA ELEVATOR EQUIPMENT. HEAT DETECTORS SHALL CONTROL THE OPERATION OF THE SPRINKLER PIPING SOLENOID VALVE(S) AND THE SHUNTING OF MAIN ELEVATOR POWER. SEE SPRINKLER MONITORING SYSTEM RISER NOTES ED.3. HEAT DETECTORS SHALL HAVE A LOWER RESPONSE TIME (135°F) COMPARED TO THE SPRINKLER HEADS IN THE HOISTWAY. WHERE HOISTWAY IS NOT SPRINKLERED, DO NOT PROVIDE SMOKE OR HEAT DETECTORS IN THE HOISTWAY.
- LOCATE PIT LIGHT SWITCH AND CONVENIENCE RECEPTACLE ADJACENT TO ACCESS DOOR. (1) RECEPT AND (2) LIGHTS. (1) SWITCH.
- LIGHTS SHALL BE CONNECTED TO THE CIRCUIT, AHEAD OF THE CONVENIENCE RECEPTACLE.
- PROVIDE FLUSH JUNCTION BOX FOR TWO-WAY COMMUNICATIONS BETWEEN EACH ELEVATOR LANDING PER 2012 NBC 1007.8.

FIRE ALARM SEQUENCE OF OPERATION

UPON CHANGE IN STATUS OF ANY DEVICE ON THE SYSTEM, THE FIRE ALARM CONTROL PANEL SHALL ACTIVATE AUDIBLE AND VISIBLE CHANGE INDICATORS AND DISPLAY THE SYSTEM POINT NUMBER, POINT DESCRIPTION AND MESSAGE ASSOCIATED WITH THE POINT. ACTIVATION OF ANY MANUAL STATION, KITCHEN HOOD EXTINGUISHING SYSTEM, WATERFLOW DEVICE, SMOKE DETECTOR, HEAT DETECTOR, SUPERVISORY DEVICE OR OTHER INITIATING DEVICE WILL CAUSE THE FOLLOWING FUNCTIONS TO OCCUR:

**MANUAL STATION OPERATION SHALL:**

- + ACTIVATE AUDIBLE AND VISUAL STATUS CHANGE INDICATORS AND DISPLAY THE POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
- + TRANSMIT AN ALARM SIGNAL TO A UL LISTED CENTRAL STATION.
- + ACTIVATE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES ON THE FLOOR.
- + RELEASE THE DOOR LOCKING SYSTEM.

**WATERFLOW SWITCH OPERATION SHALL:**

- + ACTIVATE AUDIBLE AND VISIBLE STATUS CHANGE INDICATORS AND DISPLAY THE SYSTEM POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
- + TRANSMIT AN ALARM SIGNAL TO A UL LISTED CENTRAL STATION.
- + ACTIVATE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES ON THE FLOOR.
- + RELEASE THE DOOR LOCKING SYSTEM.

**SMOKE DETECTOR OR HEAT DETECTOR OPERATION SHALL:**

- + ACTIVATE AUDIBLE AND VISIBLE STATUS CHANGE INDICATORS AND DISPLAY THE SYSTEM POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
- + TRANSMIT AN ALARM SIGNAL TO A UL LISTED CENTRAL STATION.
- + ACTIVATE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES ON THE FLOOR.
- + SHUT DOWN AHU'S.
- + RELEASE THE DOOR LOCKING SYSTEM.

**DUCT SMOKE DETECTOR ACTIVATION SHALL:**

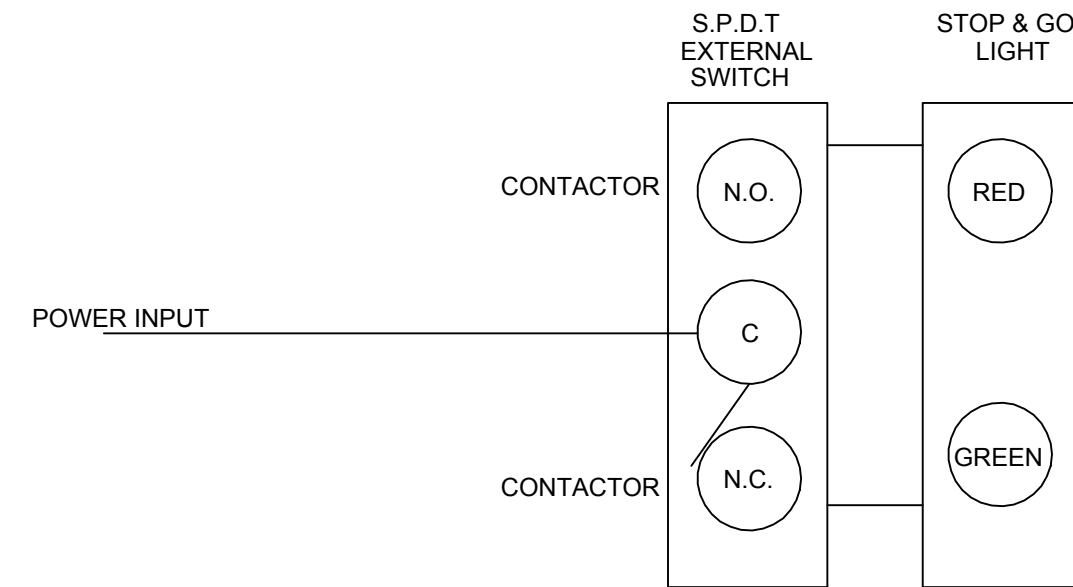
- + ACTIVATE AUDIBLE AND VISIBLE STATUS CHANGE INDICATORS AND DISPLAY THE SYSTEM POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
- + TRANSMIT SUPERVISORY SIGNAL TO A UL LISTED CENTRAL STATION.
- + SHUT DOWN AHU'S.
- + RELEASE THE DOOR LOCKING SYSTEM.

**SUPERVISORY DEVICE ACTIVATION, INCLUDING VALVE SUPERVISORY DEVICES SHALL:**

- + ACTIVATE AUDIBLE AND VISIBLE STATUS CHANGE INDICATORS AND DISPLAY THE SYSTEM POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
- + TRANSMIT A SUPERVISORY SIGNAL TO A UL LISTED CENTRAL STATION. THIS SIGNAL SHALL BE DISTINCTLY DIFFERENT THAN A TROUBLE SIGNAL.
- + RELEASE THE DOOR LOCKING SYSTEM.

REMOVAL OF ANY DEVICE, WIRING DISARRANGEMENT, OR SYSTEM COMPONENT FAILURE SHALL DISPLAY ON THE OPERATOR TERMINAL, THE CHANGE OF STATUS, TIME, DATE, POINT DESCRIPTION ON A POINT BY POINT BASIS, AND THE MESSAGE ASSOCIATED WITH THE POINT AND TRANSMIT A TROUBLE SIGNAL TO A UL LISTED CENTRAL STATION.

INDICATION EVACUATION TONE SHALL BE THREE BEAT TEMPORAL PATTERN.



NOTES:

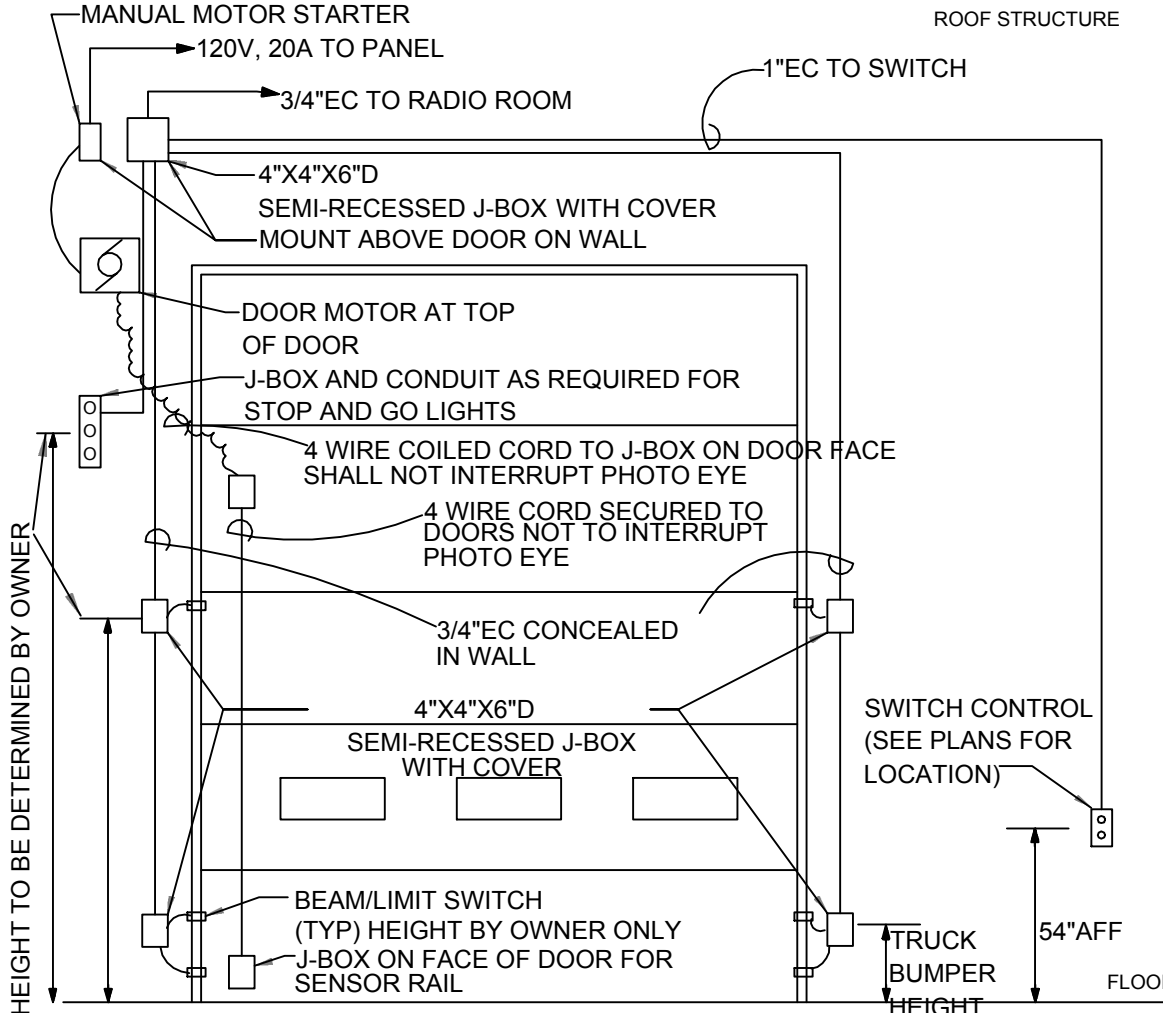
- CONTACTORS BASED ON MANUFACTURER REQUIREMENTS. E.C. SHALL SUPPLY SIGNAL LIGHTS AND ALL REQUIRED EQUIPMENT FOR CONTROL.
- E.C. TO COORDINATE CONTROL WIRING WITH OVERHEAD DOOR INSTALLER/MANUFACTURER. PROVIDE LOW VOLTAGE TRANSFORMER AS REQUIRED BY OVERHEAD DOOR INSTALLER. CONNECT TO LOCAL 120V CIRCUIT.
- OPERATION OF LIGHTS SHALL BE BASED ON:
  - DOOR OPEN - GREEN
  - DOOR CLOSED - RED
- DOOR SHALL ONLY SHOW GREEN AFTER DOOR HAS ACTIVATED MOTOR LIMIT SWITCH (OPEN) AND DOOR IS IN OPEN REST STATE.
- BASED ON: TRI LITE SG10-115RG-LED.
- SYSTEM SHALL NOT BE INSTALLED AT BI-FOLD DOOR LOCATIONS, THE UNDER ALTERNATE BID SELECTION.

STOP AND GO SIGNALING SYSTEM

NOT TO SCALE

NOTES:

- E.C. AND G.C. SHALL COORDINATE ALL ITEMS WITH OWNER AND DOOR PROVIDER PRIOR TO DOOR INSTALLATION.
- E.C. TO REVIEW OVERHEAD DOOR SPECIFICATIONS FOR ALL ELECTRICAL AND OTHER ITEMS RELATED TO THE OPERATIONS OF THE DOOR & ACCESSORIES.



APPARATUS BAY DOOR MOTOR DETAIL

NOT TO SCALE

GENERAL NOTES

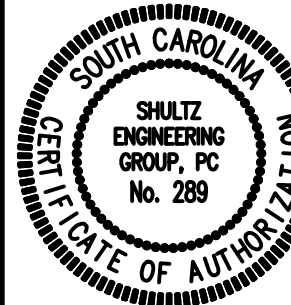
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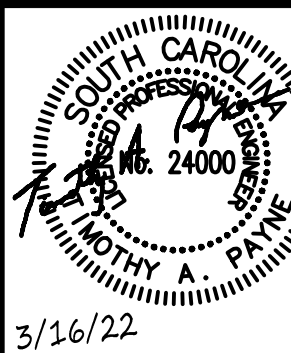
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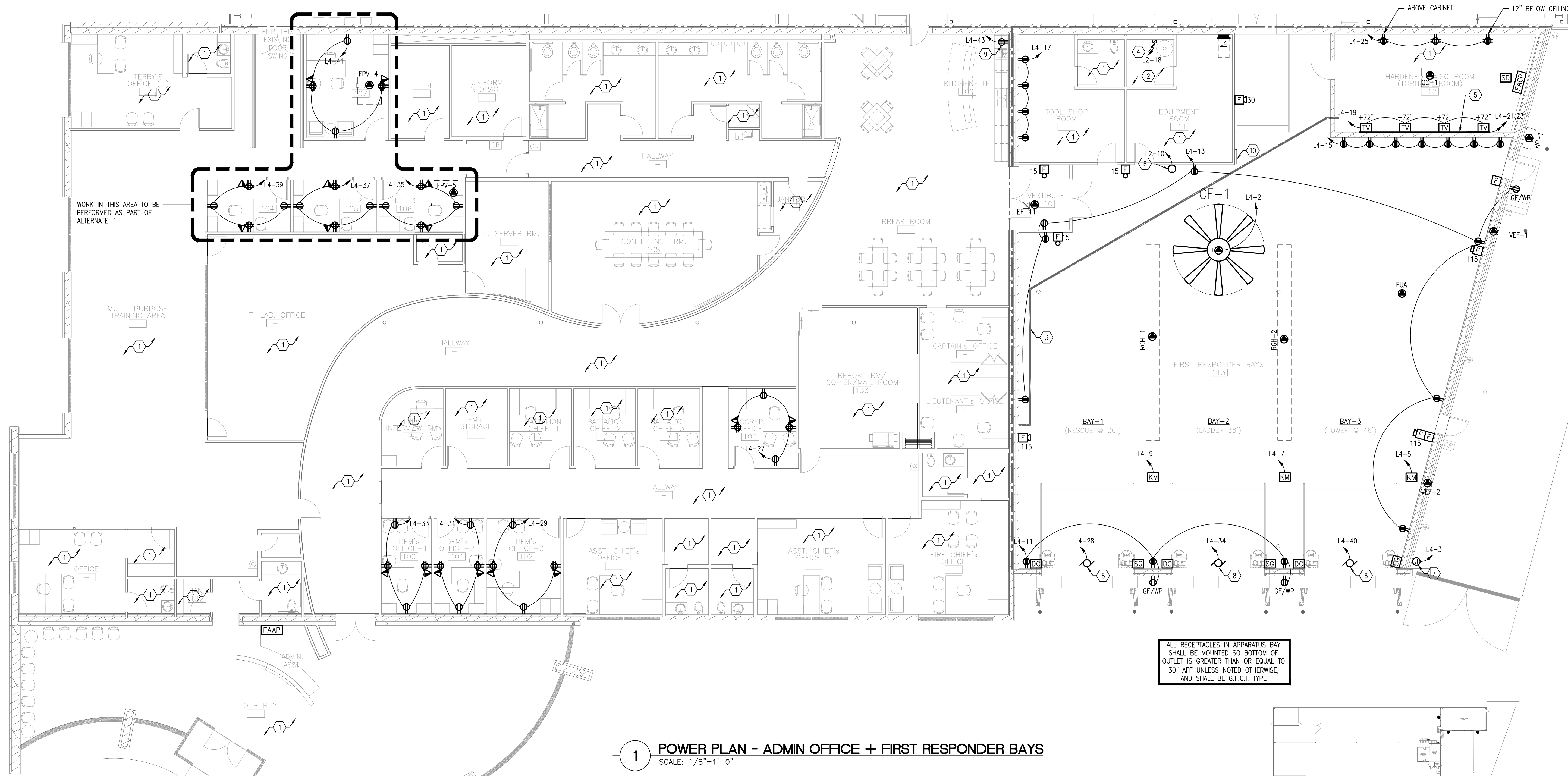
3/16/22

SPARTANBURG FIRE STATION ONE  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

ELECTRICAL DIAGRAMS

Sheet No.  
10.02





1 POWER PLAN - ADMIN OFFICE + FIRST RESPONDER BAYS  
SCALE: 1/8"=1'-0"

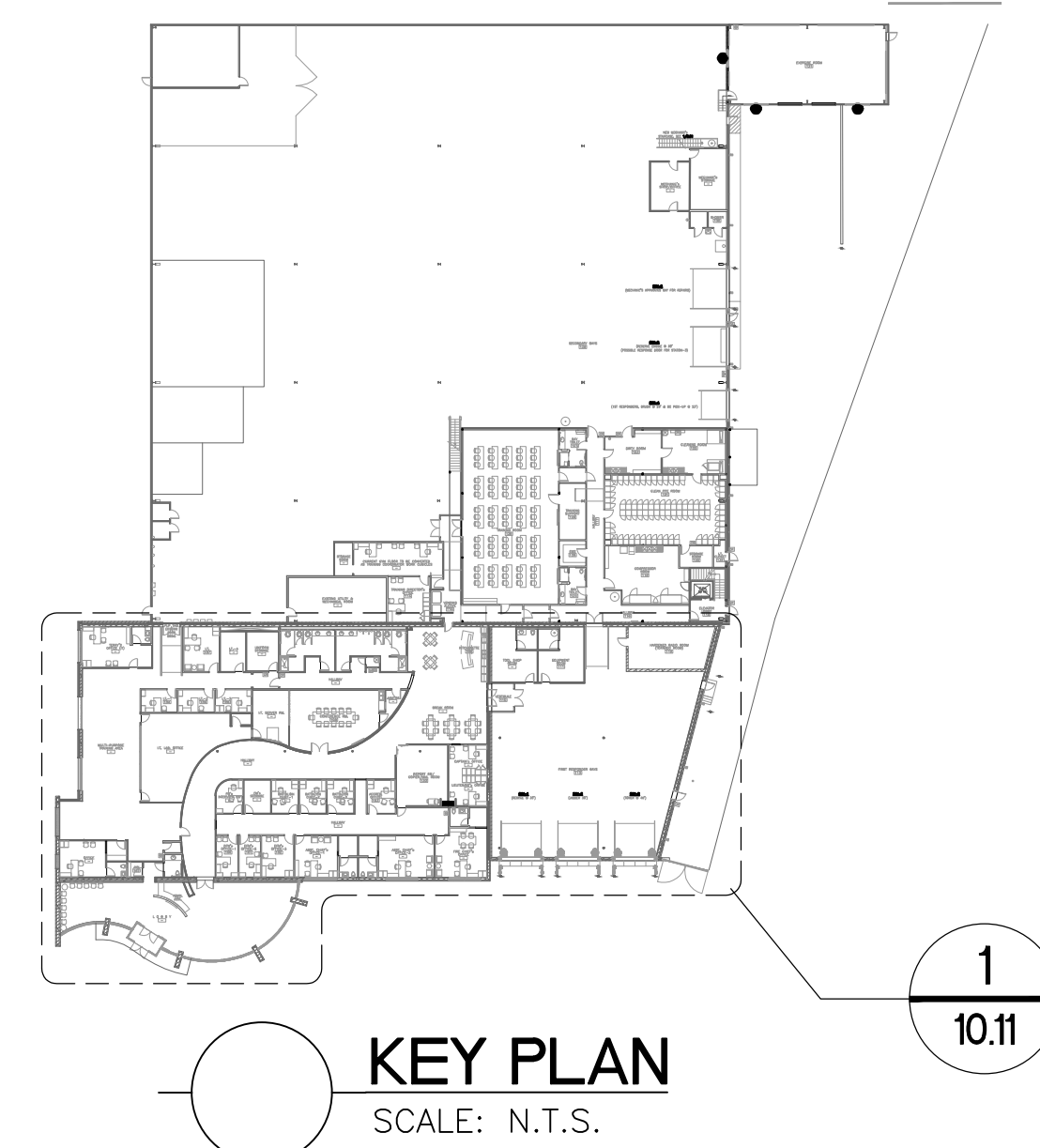
- ELECTRICAL NOTES**
- EXISTING ROOM/AREA TO REMAIN AS-IS. NO WORK UNLESS OTHERWISE NOTED.
  - ALL EXISTING ELECTRICAL GEAR IN THIS ROOM/AREA SHALL BE DEMOLISHED.
  - 4" CONDUIT FOR FIBER AND DATA. COORDINATE EXACT ROUTING PRIOR TO ROUGH-IN.
  - POWER TO AIR COMPRESSOR (230V/1PHASE/33A). WIRE TO "LINE-SIDE" OF INTEGRAL, N.E.C.-COMPLIANT DISCONNECT SWITCH PROVIDED WITH UNIT.
  - CONTRACTOR TO PROVIDE COMBINATION POWER/DATA TYPE SURFACE RACEWAY AND MOUNT AT COUNTER TOP HEIGHT WITH DUPLEX RECEPTACLES AND DATA OUTLETS 2' OC. PROVIDE METAL DIVIDER BETWEEN POWER AND TELECOM COMPARTMENTS. SURFACE RACEWAY SYSTEM SHALL BE EQUIVALENT TO WIREMOLD 4000 SERIES. COORDINATE WITH OWNER/ARCH PRIOR TO ORDERING MATERIALS.
  - POWER WELDER (240V/1PHASE/50A MOC). VERIFY EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ORDERING MATERIALS.
  - POWER CONNECTION TO MOTORIZED GATE. COORDINATE REQUIREMENTS PRIOR TO ROUGH-IN.
  - POWER TO BI-FOLD DOOR (208V/3PHASE/0.75HP). WIRE TO "LINE-SIDE" OF INTEGRAL, N.E.C.-COMPLIANT DISCONNECT SWITCH PROVIDED WITH UNIT.
  - RECEPTACLE SHALL BE GFCI PROTECTED. THE GFCI SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS APPROVED BY THE INSPECTOR.
  - PROPOSED LOCATION OF MASTER CONTROL STATIONS FOR MOTORIZED OVERHEAD DOORS. COORDINATE EXACT REQUIREMENTS WITH DOOR VENDOR/INSTALLER PRIOR TO ROUGH-IN.

- GENERAL NOTES**
- 30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
  - 1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE ROOF, SEE DETAILS IN SHEET 1.70
  - EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.

**STATION ALERTING SYSTEM**

- GC TO COORDINATE WITH OWNERS CONSULTANT.
- SPEAKER, CABLES/WIRES, LIGHTS BY OWNER.
- ALL LOW-VOLTAGE SUPPLY.

ALL RECEPTACLES IN APPARATUS BAY SHALL BE MOUNTED SO BOTTOM OF OUTLET IS GREATER THAN OR EQUAL TO 30" AFF UNLESS NOTED OTHERWISE, AND SHALL BE G.F.C.I. TYPE



**GENERAL NOTES**

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**SOUTH CAROLINA**  
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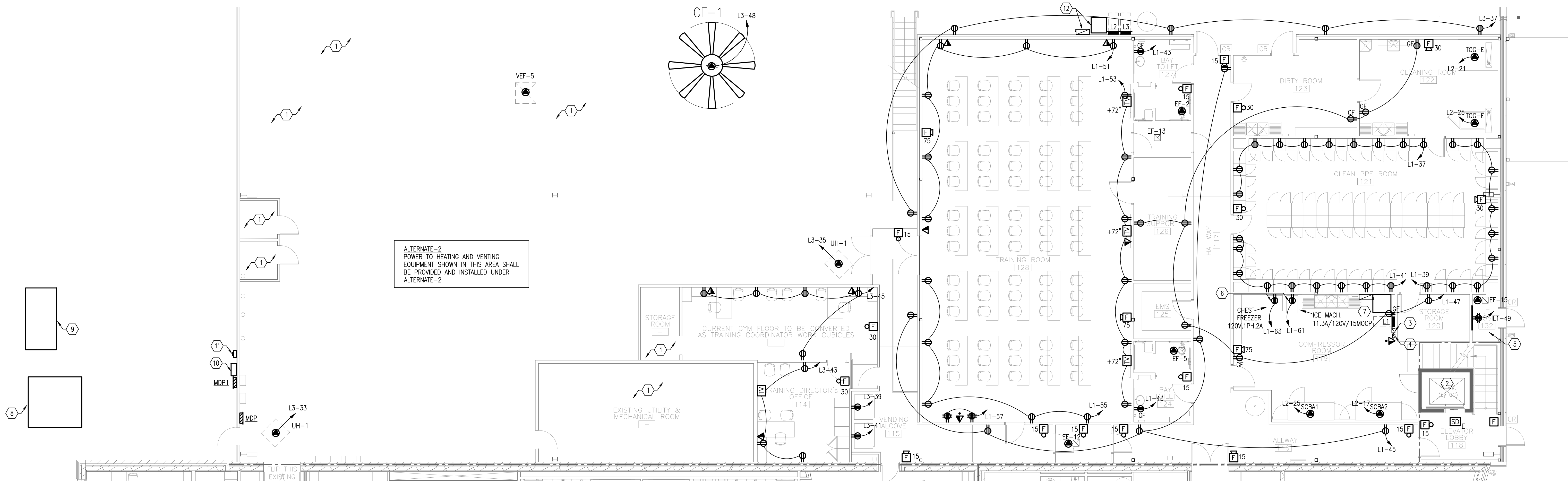
3/16/22

**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

**POWER PLAN - ADMIN OFFICE & FIRST RESPONDER BAYS**

Sheet No.  
**10.11**





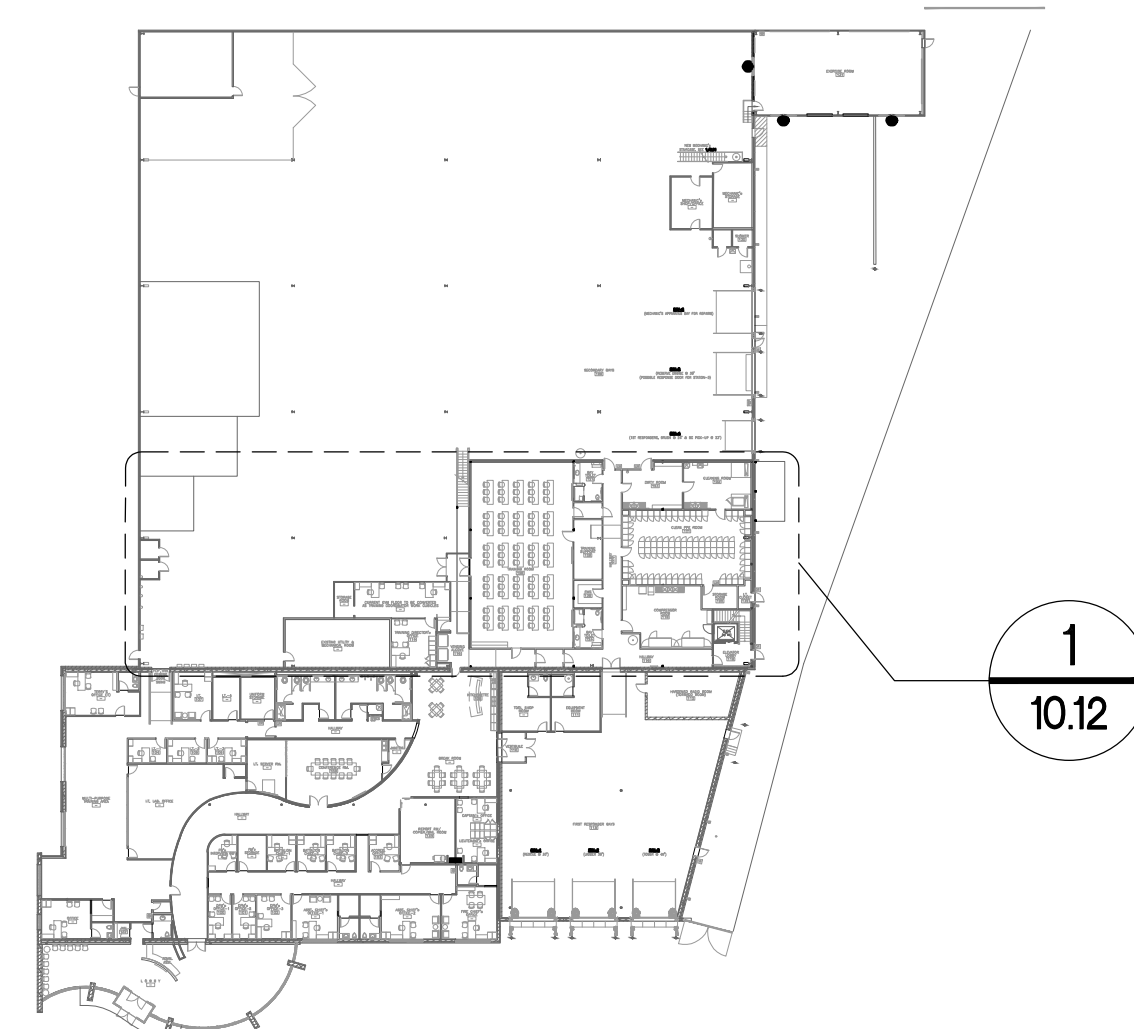
1 POWER PLAN - PARTIAL TRAINING ROOM + BAY SUPPORT SPACES  
SCALE: 1/8"=1'-0"

#### ELECTRICAL NOTES

- EXISTING ROOM/AREA TO REMAIN AS-IS, NO WORK UNLESS OTHERWISE NOTED.
- COORDINATE ALL ELEVATOR REQUIREMENTS WITH ELEVATOR VENDOR/INSTALLER PRIOR TO WORK AND ROUGH-IN.
- PROVIDE 100A/3P/FPN HEAVY DUTY DISCONNECT SWITCH IN NEMA 1 ENCLOSURE FOR ELEVATOR (208V/3PHASE/15HP). DISCONNECT SWITCH MUST BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. FUSES TO BE CLASS RK1 TIME DELAY TYPE PER REQUIREMENTS OF ELEVATOR MANUFACTURER. INSTALL AT ELEVATOR CONTROLLER LOCATION IF REQUIRED. COORDINATE WITH LOCAL INSPECTOR PRIOR TO ROUGHING AND INSTALLING. POWER VIA L1-21. CONTRACTOR SHALL PROVIDE EACH FUSIBLE DISCONNECT SWITCH SERVING THE ELEVATOR MOTORS/CONTROLLER WITH A SET OF AUXILIARY CONTACTS TO BE USED TO SIGNAL THE EMERGENCY BATTERY LOWERING SYSTEM. CONTRACTOR SHALL PROVIDE ALL INTERCONNECT WIRING BETWEEN DISCONNECT SWITCH AND LOWERING SYSTEM. ELEVATOR INSTALLER TO MAKE ALL FINAL CONNECTIONS. COORDINATE INSTALLATION/REQUIREMENTS WITH ELEVATOR CONTRACTOR PRIOR TO ORDERING MATERIALS AND ROUGH-IN.
- PROVIDE 30A/2P/FPN HEAVY DUTY DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTS. DISCONNECT SWITCH MUST BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION. FUSES TO BE PER REQUIREMENTS OF ELEVATOR MANUFACTURER. INSTALL AT ELEVATOR CONTROLLER LOCATION IF REQUIRED. COORDINATE WITH LOCAL INSPECTOR PRIOR TO ROUGHING AND INSTALLING. POWER VIA L1-S9.
- CONSULT WITH OWNERS TELECOM CONSULTANT PRIOR TO ROUGH-IN.
- RECEPTACLE SHALL BE GFCI PROTECTED. THE GFCI SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS APPROVED BY THE INSPECTOR.
- VERIFY GEAR FITS IN THIS AREA PRIOR TO WORK.**
- NEW PAD MOUNTED SERVICE TRANSFORMER SHALL BE INSTALLED AT APPROVED LOCATION PER DUKE ENERGY REQUIREMENTS. **VERIFY EXACT LOCATION PRIOR TO WORK.**
  - MIN 12' FROM COMBUSTIBLE WALL.
  - MIN 6' FROM COMBUSTIBLE WALL.
  - MIN 20' FROM DOORS AND 10' SIDE CLEARANCE FROM DOORS.
  - MIN 10' FROM WINDOWS, 5' SIDE CLEARANCE FROM WINDOWS, 10' HEIGHT FROM WINDOWS.
  - MIN 20' FROM AIR VENTS, 10' SIDE CLEARANCE FROM AIR VENTS, 25' HEIGHT FROM AIR VENTS.
- EXISTING GENERATOR.
- EXISTING ATS.
- EXISTING POWER COMPANY METER.
- NEW DISCONNECT AND TRANSFORMER. SEE RISER.

- 30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
- 1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE ROOF, SEE DETAILS IN SHEET 1.70
- EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.

- SCBA1 - SCBA COMPRESSOR #1 - 208V, 3PH, 15HP, 42FLA
- SCBA2 - SCBA COMPRESSOR #2 - 230V, 1PH, 10HP, 7.5KW
- TOG-E - TOG EXTRACTOR - 240V, 1PH, 8FLA, 15MOCP



#### KEY PLAN

SCALE: N.T.S.



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M: ZM E: WC P: HM

#### GENERAL NOTES

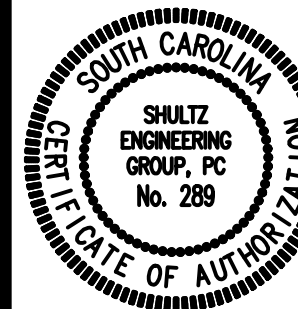
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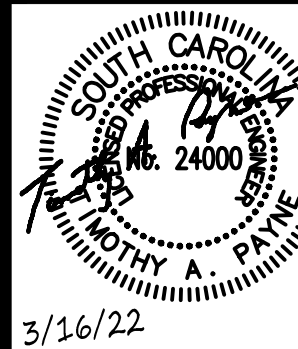
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SPARTANBURG FIRE STATION ONE  
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POWER PLAN - TRAINING ROOM &  
BAY SUPPORT SPACES

Sheet No.  
**10.12**











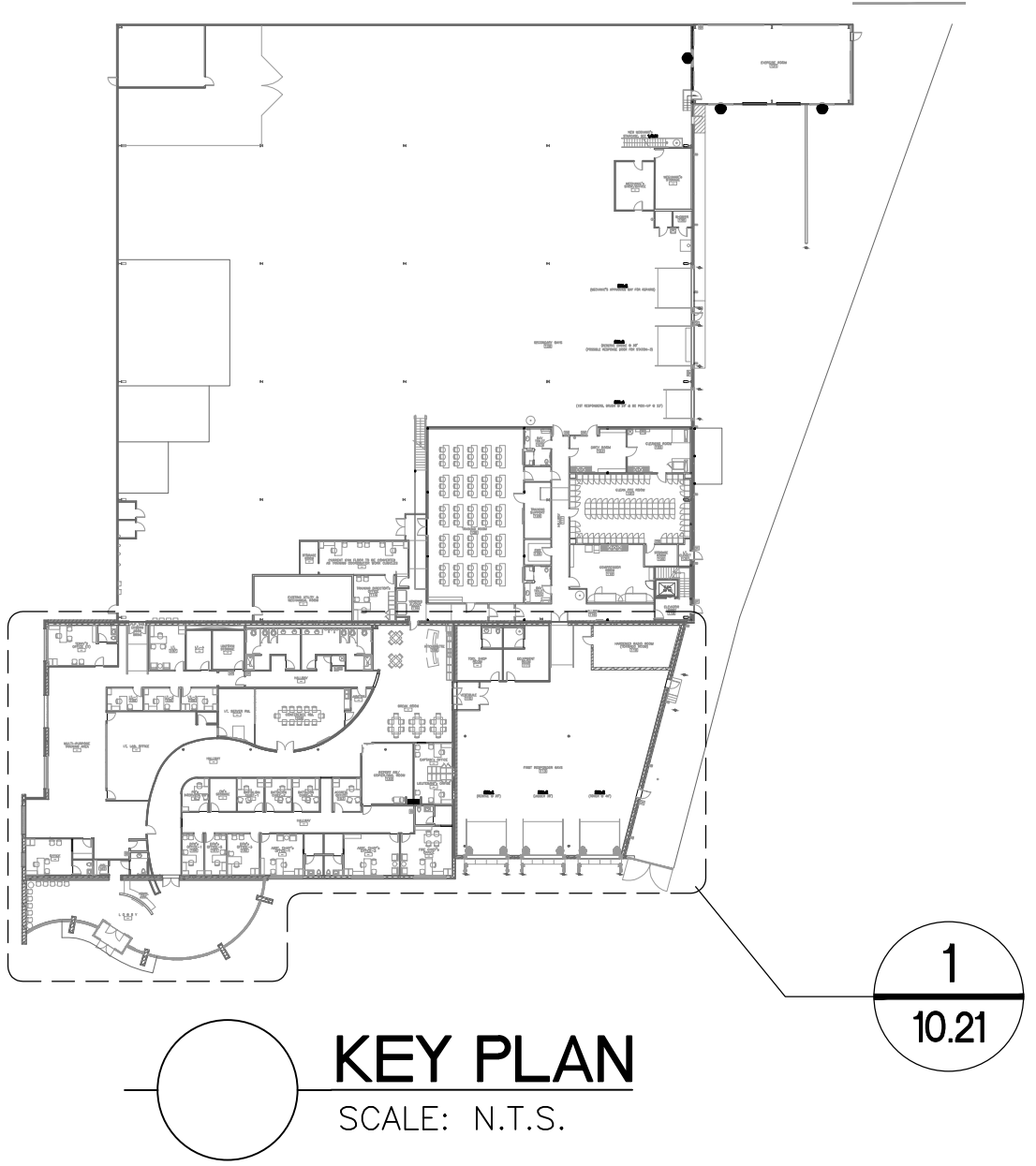


1 LIGHTING PLAN - ADMIN OFFICE + FIRST RESPODER BAYS  
SCALE: 1/8"=1'-0"

NOTES:  
- ALL LIGHTS ON THIS PLAN SHALL BE CONNECTED TO H1-16, UNLESS NOTED OTHERWISE.

- ELECTRICAL NOTES**
- EXISTING ROOM/AREA TO REMAIN AS-IS. NO WORK UNLESS OTHERWISE NOTED.
  - CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT IN SAME ROOM/AREA. VERIFY VOLTAGE PRIOR TO ORDERING MATERIALS. CIRCUIT LOAD SHALL NOT EXCEED 80% OF THE RATED BREAKER CAPACITY.
  - EXISTING POLES AND POLE MOUNTED LIGHTS SHALL BE RELOCATED. SEE CIVIL PLANS FOR EXACT LOCATION. EXTEND EXISTING CIRCUIT TO NEW LOCATION. IF REQUIRED, PROVIDE NEW CIRCUIT TO RELOCATED LIGHTS. VERIFY VOLTAGE PRIOR TO ROUGH-IN. LIGHTS MAINTAIN EXISTING CONTROLS.
  - 1" FOR CAT6 CABLING FOR CAMERA SYSTEM ON POLES.
  - FIXTURE SHALL BE WALL MOUNTED WITH EXTENDED ARM. PROVIDE APPROPRIATE MOUNTING KITS AND VERIFY EXACT MOUNTING DISTANCE FROM WALL AND HEIGHT ABOVE SIGNAGE WITH FIXTURE MANUFACTURER.
  - FIXTURE SHALL BE PENDANT MOUNTED AT SAME HEIGHT AS HIGHBAY FIXTURES.

- 30 MINUTE RATED WALL, TO TERMINATE AT THE BOTTOM OF THE RATED ROOF BAR JOIST, SEE DETAILS IN SHEET 1.70
- 1 HOUR RATED WALL, ALL THE WAY UP TO THE UNDERSIDE OF THE ROOF, SEE DETAILS IN SHEET 1.70
- EXISTING 1 HOUR RATED WALL, WITH EXISTING RATED DOOR.



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No. 24000  
STATE OF AUTHORIZATION

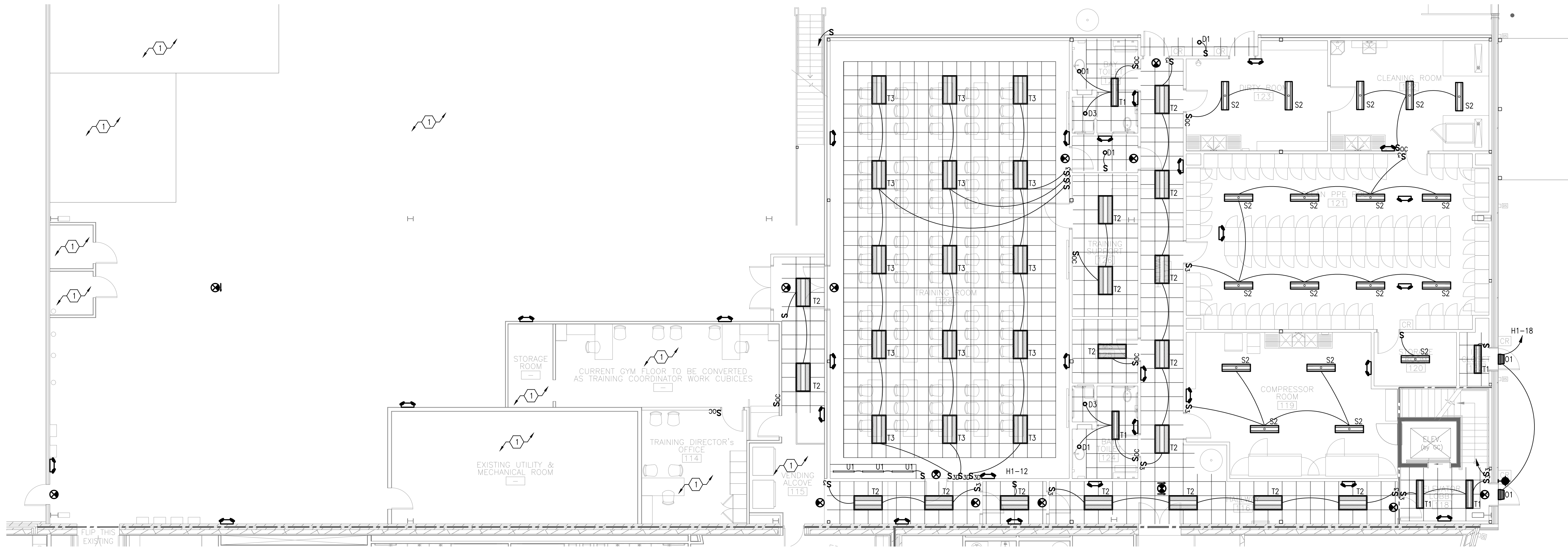
3/16/22

**SPARTANBURG FIRE STATION ONE**  
450 N. FOREST ST., SPARTANBURG, SOUTH CAROLINA 29301

**LIGHTING PLAN - ADMIN. OFFICE & FIRST RESPONDER BAYS**

Sheet No.  
**10.21**





1 LIGHTING PLAN - PARTIAL TRAINING ROOM + BAY SUPPORT SPACES - FIRST FLOOR  
SCALE: 1/8"=1'-0"

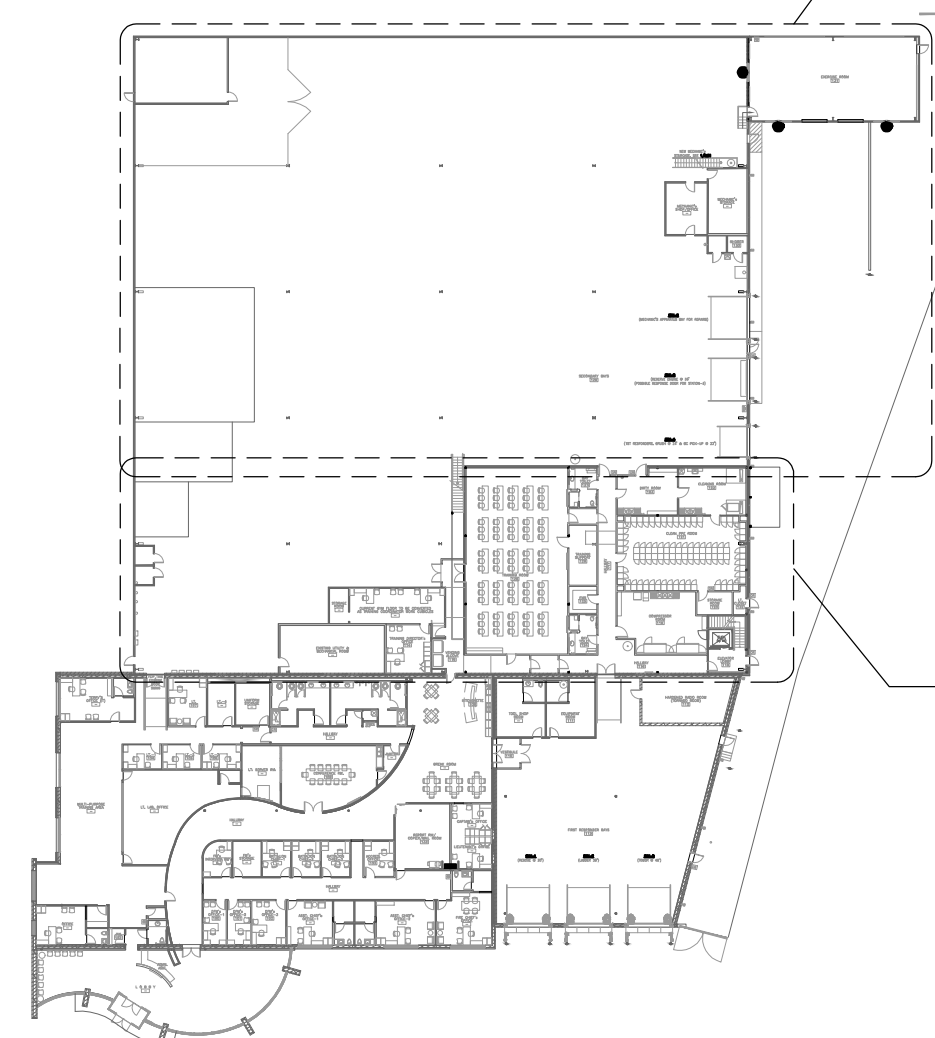
NOTES:  
- ALL LIGHTS ON THIS PLAN SHALL BE CONNECTED TO H1-12, UNLESS NOTED OTHERWISE.

#### ELECTRICAL NOTES

- EXISTING ROOM/AREA, INCLUDING LIGHTING, TO REMAIN AS-IS. NO WORK UNLESS OTHERWISE NOTED.



2 LIGHTING PLAN - SECONDARY BAYS + EXERCISE ROOM - FIRST FLOOR  
SCALE: 1/16"=1'-0"



KEY PLAN  
SCALE: N.T.S.

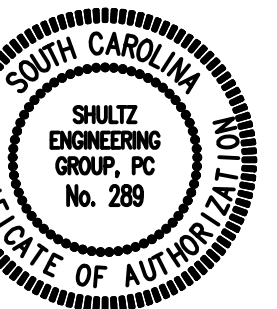
#### GENERAL NOTES

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND TRADES TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND TRADES. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND TRADES. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEES USE ON THE PROJECT TO ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND TRADES.

WHENEVER THERE ARE DISCREPANCIES BETWEEN DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR CONFLICTS WITHIN THE SPECIFICATIONS, AND/OR DRAWINGS, AND SUCH DISCREPANCY IS NOT CALLED TO THE ARCHITECT'S ATTENTION IN TIME TO PERMIT CLARIFICATION BY ADDENDUM, THE CONTRACTOR SHALL BASE HIS BID UPON PROVIDING THE BETTER QUALITY OR GREATER WORK OR MATERIAL CALLED FOR, SHALL SUBMIT A WRITTEN STATEMENT WITH HIS PROPOSAL NOTING SUCH DISCREPANCIES, AND SHALL SO FURNISH AND INSTALL SUCH BETTER QUALITY OR GREATER QUANTITY UNLESS OTHERWISE ORDERED IN WRITING.

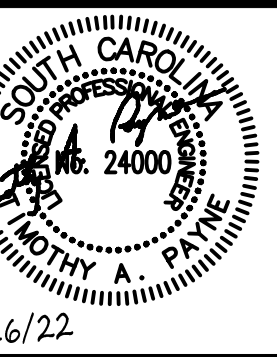
Project No.  
1599

Date:  
02.17.2022  
Drawn by:  
DD/ZM/WC/HM  
Checked by:  
TP/GA  
Revisions  
03.16.2022  
ADDENDUM-8



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SPARTANBURG FIRE STATION ONE  
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LIGHTING PLAN - TRAINING ROOM &  
BAY SUPPORT SPACES

Sheet No.  
10.22



