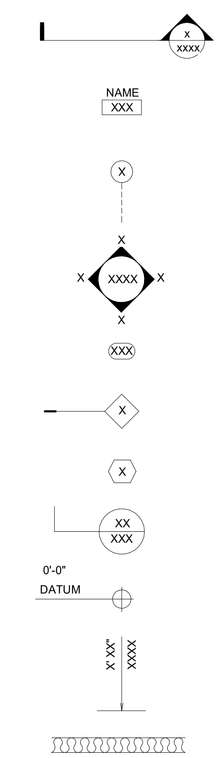
ABBREVIATIONS:

AB	ANCHOR BOLT
A/C	AIR CONDITIONED
APC	ACOUSTICAL PANEL CEILING
ACE	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AHJ	AIR HANDLER UNIT
ALUM	ALUMINUM
AP	ACCESS PANEL
AS	ALUMINUM STOREFRONT
AFF	ABOVE FINISH FLOOR
BIT	BITUMEN
CA	COMPRESSED AIR
CAB	CABINET
CB	CHALK BOARD
CCT	CUBICLE CURTAIN TRACK
CI	CAST IRON
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CPT	CARPET
CT	CERAMIC TILE
CTR	COUNTER
CO	CLEAN OUT
CW	COLD WATER
CWP	CONCRETE WALL PANEL
CBB	COMPUTER BACKBOARD
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DISP	DISPENSER
DS	DOWNSPOUT
DWGS	DRAWINGS
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EJ	EXPANSION JOINT
EP	ELECTRIC PANEL
EQUIP	EQUIPMENT
ETV	EDUCATIONAL TELEVISION
EBB	ETV BACKBOARD
DISP	DISPENSER
EXT'G	EXISTING
EXT	EXTERIOR
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED, EXPANSION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER & CABINET
FFE	FINISH FLOOR ELEVATION
FIN	FINISH
FL	FLOOR
FT	FOOT, FEET
FTG	FOOTING
FS	FIRE SEALANT
G	GAS
GA	GAUGE
GB	GRAB BAR
GL	GLASS
GR	GRADE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIBB
HC, H/C	HANDICAPPED
HDW	HARDWARE
HM	HOLLOW METAL
HP	HIGH POINT
HR	HOUR
HTG	HEATING
HW	HOT WATER
HP	HORSEPOWER
HZ	HERTZ (CYCLES)
IN	INCH, INCHES
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
KIT	KITCHEN
KP	KICK PLATE
LAV	LAVATORY
LKR	LOCKER
LP	LOW POINT
LPD	LIGHT PROOF DOOR
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MES	METAL EDGE STRIP
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOULDING
MO	MASONRY OPENING
MOD	MODIFIED
MSL	MEAN SEA LEVEL
MT	METAL THRESHOLD
MTD	MOUNTED
MWP	METAL WALL PANEL
NIC	NOT IN CONTRACT
OBS	OBSCURE
OC	ON CENTER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OFD	OVERFLOW DRAIN
P	PAINT
PART HT	PARTITION HEIGHT
PB	PEGBOARD
PROP	PROPERTY LINE
PL	PLATE
PLAS	PLASTER
PLWD	PLYWOOD
PSB	PENCIL SHARPENER BLOCK
PH	PHASE
PT	PRESERVATIVE TREATED
POLYCARB	POLYCARBONATE
PF	PREFINISHED
QT	QUARRY TILE
R	RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RECEP	RECEPTACLE
REF	REFRIGERATOR
REINF	REINFORCING, REINFORCED
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
S	STAIN
SB	SIGN BLOCK
SCHD	SCHEDULE
SEC	SECTION
SF	SQUARE FEET
SH	SHELVING, SHELF
SIM	SIMILAR
SPECS	SPECIFICATION
SS	SANITARY SEWER
STC	SOUND TRANSMISSION COEFFICIENT
STOR	STORAGE
STRUCT	STRUCTURAL
S/S, SS	STAINLESS STEEL
ST	STORM SEWER
SAT	SUSPENDED ACOUSTIC CEILING
T	TREAD
TB	TACK BOARD
TCA	TILE COUNCIL OF AMERICA
TBB	TELEPHONE BACKBOARD
TYP	TYPICAL
TEL	TELEPHONE
TERR	TERRAZZO
TOIL, T	TOILET
TS	TACKSTRIP
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VINYL, VOLTS
VCT	VINYL COMPOSITION TILE
VEST	VESTIBULE
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WD	WOOD
WH	WATERHEATER
WP	WATERPROOF(ING)
WP	WORKING POINT
WS	WEATHERSTRIP

(SEE C, S, P, M & E SHEETS FOR ADD. SYMBOLS)



DETAIL IDENTIFICATION
SHEET COORDINATE LOCATION
SHEET NUMBER

SPACE IDENTIFICATION
ROOM NAME
ROOM NUMBER

STRUCTURAL GRID LINE

INTERIOR ELEVATION
DETAIL NUMBER
SHEET NUMBER

DOOR NUMBER

WALL TYPE IDENTIFICATION

STOREFRONT TYPE IDENTIFICATION

DOOR & WINDOW DETAIL IDENTIFICATION

DATUM ELEVATION

BUILDING ELEVATION

BATT INSULATION

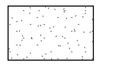
RIGID INSULATION

CMU WALL

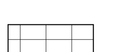
STEEL STUD & GWB WALL- SEE WALL TYPES

NEW CONCRETE

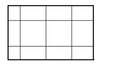
REVISION MARK



SUPPLY AIR DIFFUSER
SEE 'M' SHEET



RETURN AIR GRILL
SEE 'M' SHEETS



RECESSED LED FIXTURE
SEE 'E' SHEETS

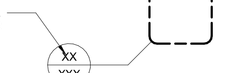
EXIT SIGN
SEE 'E' SHEETS

EXHAUST FANS
SEE 'M' & 'E' SHEETS

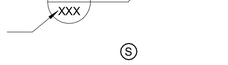
GWB CEILING & SOFFIT

APC SYSTEM (ACOUSTICAL PANEL CEILING)

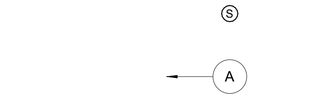
1 HOUR RATED WALL



2 HOUR RATED WALL



3 HOUR RATED WALL



CALLOUT OF DETAIL

SPEAKER

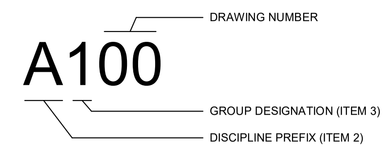
NOTE TAG

WORKING DRAWINGS ORGANIZATION SYSTEM (ConDoc)

THE ConDoc SYSTEM:

1. A BASIC PRINCIPLE OF ConDoc IS TO SIMPLIFY THE PROCESS OF PRODUCING WORKING DRAWINGS WITHOUT ANY COMPROMISE OF QUALITY OR CONTENT OF THE DOCUMENTS. THE USE OF KEYNOTE SYMBOLS ON THE DRAWINGS, WHICH CROSS-REFERENCE TO NOTES IN LEGENDS (ON THE DRAWINGS) IS AN ESSENTIAL ELEMENT OF THE METHODOLOGY. THESE KEYNOTE SYMBOLS ALLOW FOR TEXT REDUCTION & SERVE THE FURTHER PURPOSE OF LINKING INFORMATION ON THE DRAWINGS WITH THAT CONTAINED IN THE SPECIFICATIONS THROUGH THE USE OF A NUMBERING SYSTEM WHICH IS COMMON TO BOTH THE DRAWINGS & THE SPECIFICATIONS.
2. THE ORGANIZATION OF THE KEYNOTING SYSTEM ON THE DRAWINGS, WITH THE KEYNOTE REFERENCE NUMBER RELATED TO THE SPECIFICATIONS SECTIONS NUMBERING SYSTEM, SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG THE SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.
3. USING THE ConDoc SYSTEM, "MATERIALS KEYING LEGEND" NOTES ARE NOT REPEATED ON CONSECUTIVE DETAILS ON THE SAME SHEET. DIFFERENCES & NEW MATERIALS ARE NOTED AS NECSSARY.
4. FOR THIS PROJECT, ONLY THE "A" SHEETS CONFORM TO THE ConDoc SYSTEM MATERIAL KEYING LEGEND.

1. ALPHA-NUMERIC SYSTEM CODE



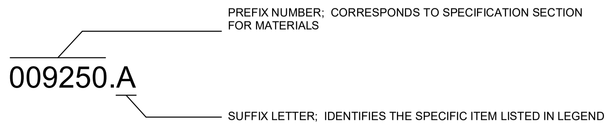
2. BASIC DISCIPLINE IDENTIFICATION

DISCIPLINE PREFIX	DISCIPLINE	DISCIPLINE PREFIX	DISCIPLINE
G	GENERAL, PROJECT INFORMATION	M	MECHANICAL
C	CIVIL	E	ELECTRICAL
D	DEMOLITION	FP	FIRE PROTECTION
A	ARCHITECTURAL	K	KITCHEN
S	STRUCTURAL	R	ROOF
P	PLUMBING	LS	LIFE SAFETY
		T	TECHNOLOGY

3. DRAWING GROUPS IDENTIFICATION ('A' DRAWINGS)

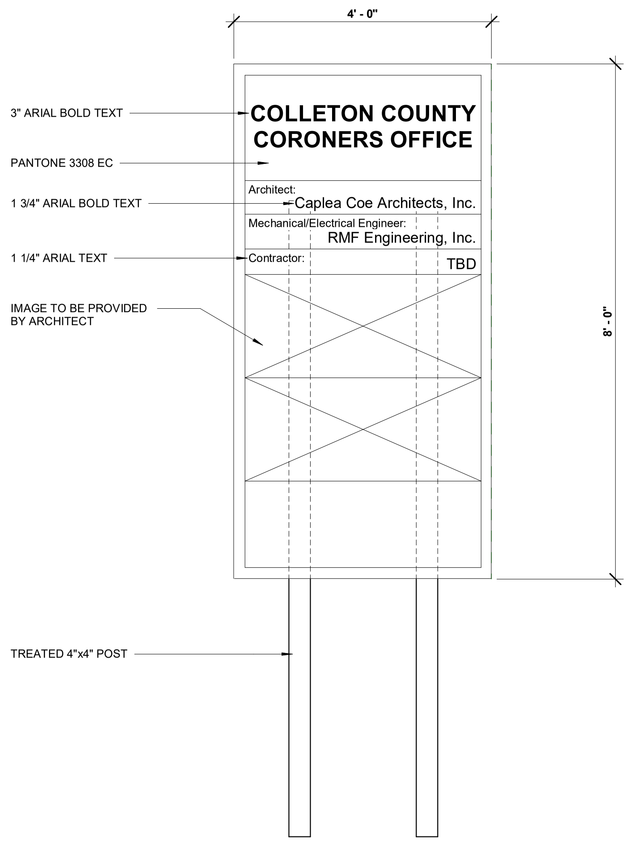
A000, A001, ETC. GENERAL
A100, A101, ETC. PLANS
A200, A201, ETC. EXTERIOR ELEVATIONS
A300, A301, ETC. BUILDING & WALL SECTIONS
A400, A401, ETC. INTERIOR ELEVATIONS
A500, A501, ETC. DETAILS
A600, A601, ETC. SCHEDULE & DIAGRAMS

4. MATERIALS KEYING



MATERIALS (SEE DRAWINGS & SPECIFICATIONS FOR SPECIAL MATERIALS)

CONSTRUCTION SIGN



MASTER KEYNOTE LIST

KEY VALUE	KEYNOTE TEXT
033000.B	CONCRETE SLAB- SEE 'S' SHEETS
033000.E	JOINT FILLER
042000.A	8 IN. CMU
042000.C	12IN. CMU
042000.D	4 IN. CMU
042000.E	HORIZONTAL REINFORCING - SEE 'S' SHEETS
042000.F	GROUT
042000.G	MASONRY CONTROL JOINT
042000.I	DAMPPROOFING
042000.K	MORTAR MESH MATERIAL
042000.L	MASONRY WEEP
042000.O	THROUGH WALL FLASHING
042000.Q	8 IN. CMU-BOND BEAM
042000.S	BRICK VENEER
051200.E	STEEL PLATE - SEE 'S' SHEETS
051200.F	5/8 IN. BOLT - SEE 'S' SHEETS
051200.I	GALVANIZED STEEL ANGLE
051200.J	GALVANIZED STEEL PLATE
054000.C	6 IN. COLD FORMED METAL FRAMING
054000.D	8 IN. COLD FORMED METAL FRAMING
054100.B	2" GALV. "Z" FURRING CHANNEL
054100.C	2" GALV. "J" FURRING CHANNEL
061000.C	2X4 FRAMING - SEE 'S' SHEETS
061000.E	2X6 PT FRAMING
061001.B	PRESSURE TREATED PLYWOOD
061600.B	GYPSUM SHEATHING
061600.E	SELF-ADHERING SHEET FLASHING
064013.G	TREATED FRAMING
066400.A	FIBERGLASS REINFORCED PANELING
066400.B	FIBERGLASS REINFORCED PANELING EDGE TRIM MOULDING
071113.A	BITUMINOUS DAMPPROOFING
072100.A	THERMAL INSULATION
072100.B	FOIL FACED R-19 BATT INSULATION
072100.C	UNFACED R-19 BATT INSULATION
072100.D	SAFING INSULATION
072100.E	2 IN. RIGID INSULATION
072100.L	SOUND ATTENUATION INSULATION
072500.A	WEATHER BARRIERS
072726.A	FLUID-APPLIED MEMBRANE AIR BARRIERS
074243.C	SHIM
074600.C	CEMENTITIOUS TRIM
076200.D	PREFINISHED METAL FLASHING
078100.A	APPLIED FIREPROOFING
079200.A	JOINT SEALANTS
079200.B	ELASTOMERIC JOINT SEALANT W PRIMER & BACKER ROD
079200.C	LATEX JOINT SEALANT
079200.D	JOINT SEALANT BACKER ROD
081113.A	HOLLOW METAL DOORS AND FRAMES
081113.B	STEEL DOOR
081113.C	STEEL FRAME
081113.E	FRAME ANCHOR
084113.A	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084113.D	ALUMINUM-FRAMED STOREFRONT WINDOW
084413.D	PREFIN ALUM WINDOW PAN
088000.D	IMPACT RESISTANT INSULATED GLASS
092216.A	NON-STRUCTURAL METAL FRAMING
092216.B	STEEL FRAMING
092216.C	3-5/8 IN. METAL STUD
092216.D	7/8 IN. FURRING CHANNEL
092216.E	2 IN. METAL STUD
092216.G	6 IN. METAL STUD
092216.K	DEFLECTION TRACK
092216.M	FIRE RATED DEFLECTION TRACK
092216.O	METAL CHANNEL
092900.A	GYPSUM BOARD
092900.B	5/8 IN. GWB
092900.C	5/8 IN. TYPE 'X' GWB
092900.D	5/8 IN. CEMENTITIOUS BACKER UNIT
092900.E	5/8" MOISTURE & MOLD RESIST GWB
092900.H	1/2" GYPSUM CEILING BOARD
092900.I	1/4" FLEXIBLE GWB
093000.A	TILING
093000.B	CERAMIC TILE - THINSET
093000.C	CERAMIC TILE BASE
093000.E	CERAMIC TILE
093000.G	4 MIL. POLY WATERPROOF MEMBRANE
095113.A	ACOUSTICAL PANEL CEILINGS
095113.B	CEILING GRID
096513.B	4 IN. RESILIENT BASE
096513.F	6 IN. RESILIENT BASE (BY OWNER)
096623.A	RESINOUS MATRIX TERRAZZO FLOORING
102800.B	TOILET PAPER DISPENSER
102800.D	GRAB BAR
102800.F	MIRROR UNIT
102800.G	SOAP DISPENSER
102800.I	COMBO SEMI RECESSED PAPER TOWEL DISPENSER/TRASHCAN
102800.X	SHOWER CURTAIN & ROD
102800.Y	FOLDING SHOWER SEAT
102800.Z	ROBE HOOK
105113.A	METAL LOCKERS
105113.B	LOCKER ROOM BENCH
107300.A	ALUMINUM WALKWAY COVERS
113100.A	RESIDENTIAL APPLIANCES
123213.I	BASE CABINET
123213.J	WALL CABINET
123620.B	METAL SHELVING UNIT
123661.A	SIMULATED STONE COUNTERTOPS
123661.B	SOLID SURFACE WINDOW SILL
220500.A	PLUMBING FIXTURES - SEE 'P' SHEETS
265100.A	INTERIOR LIGHTING - SEE 'E' SHEETS

STATE OF SOUTH CAROLINA
CAPLEA COE ARCHITECTS, INC
CHARLESTON
B-78022
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
JOSHUA MICHAEL CAPLEA
Charleston, SC
No. 6889
REGISTERED ARCHITECT

SEALS

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NOTES:

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CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

ABBREVIATIONS, LEGEND, & CONDOC

SHEET NAME

PROJECT NUMBER 23019
DRAWN BY BTN
CHECKED BY JMC
DATE 07/20/2026
SCALE As indicated

G101

SHEET 2 OF 59
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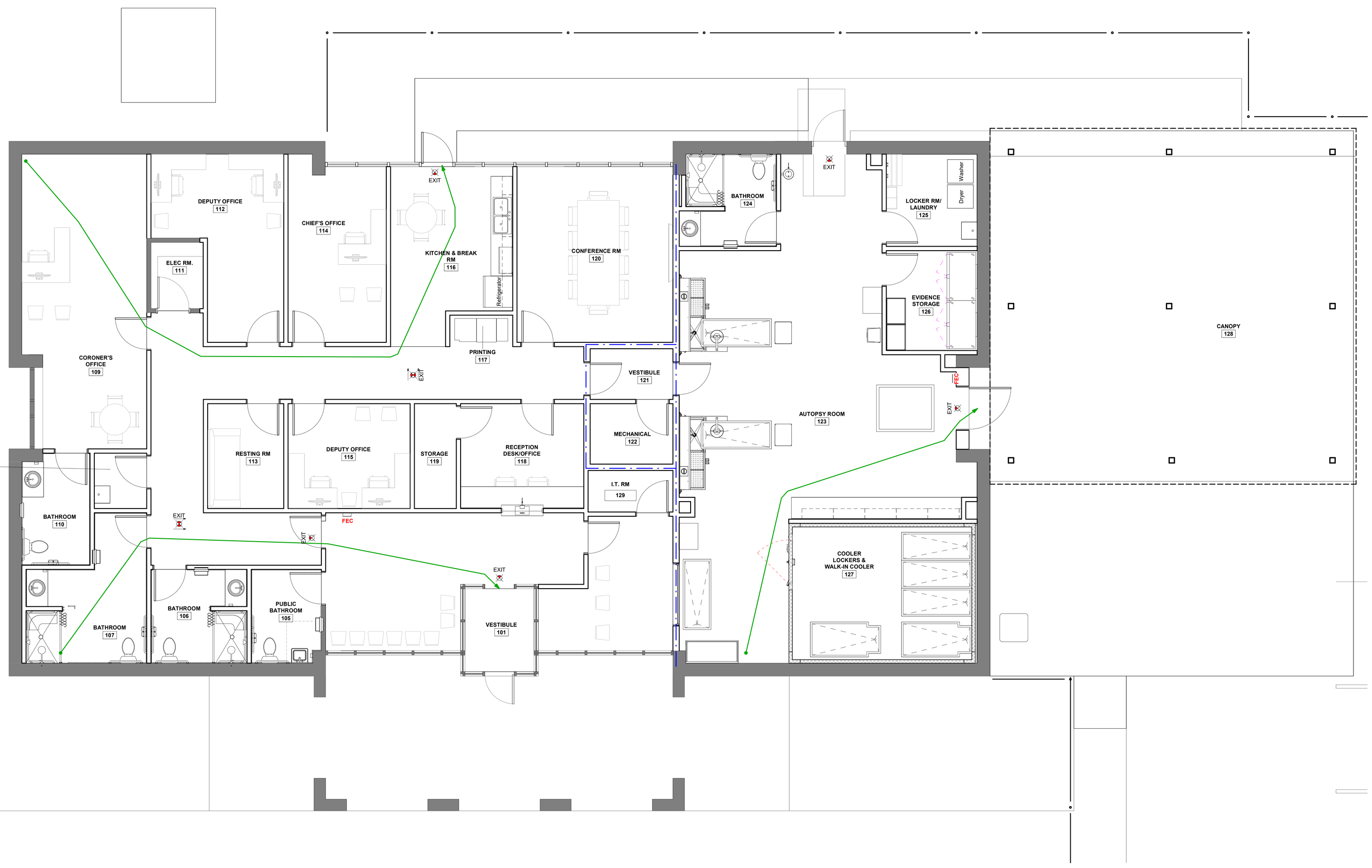

F1 FIRST FLOOR LIFE SAFETY PLAN
LS101 SCALE: 1/4" = 1'-0"

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NOTES:

LEGEND:

1 HR SMOKE SCREEN
EXIT EXIT SIGN
FEC FIRE EXTINGUISHER CABINET

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843.577.6073

FIRST FLOOR LIFE SAFETY PLAN

SHEET NAME

PROJECT NUMBER 23019
DRAWN BY BTN
CHECKED BY JMC
DATE 07/20/2026
SCALE As indicated

LS101

SHEET 3 OF 59
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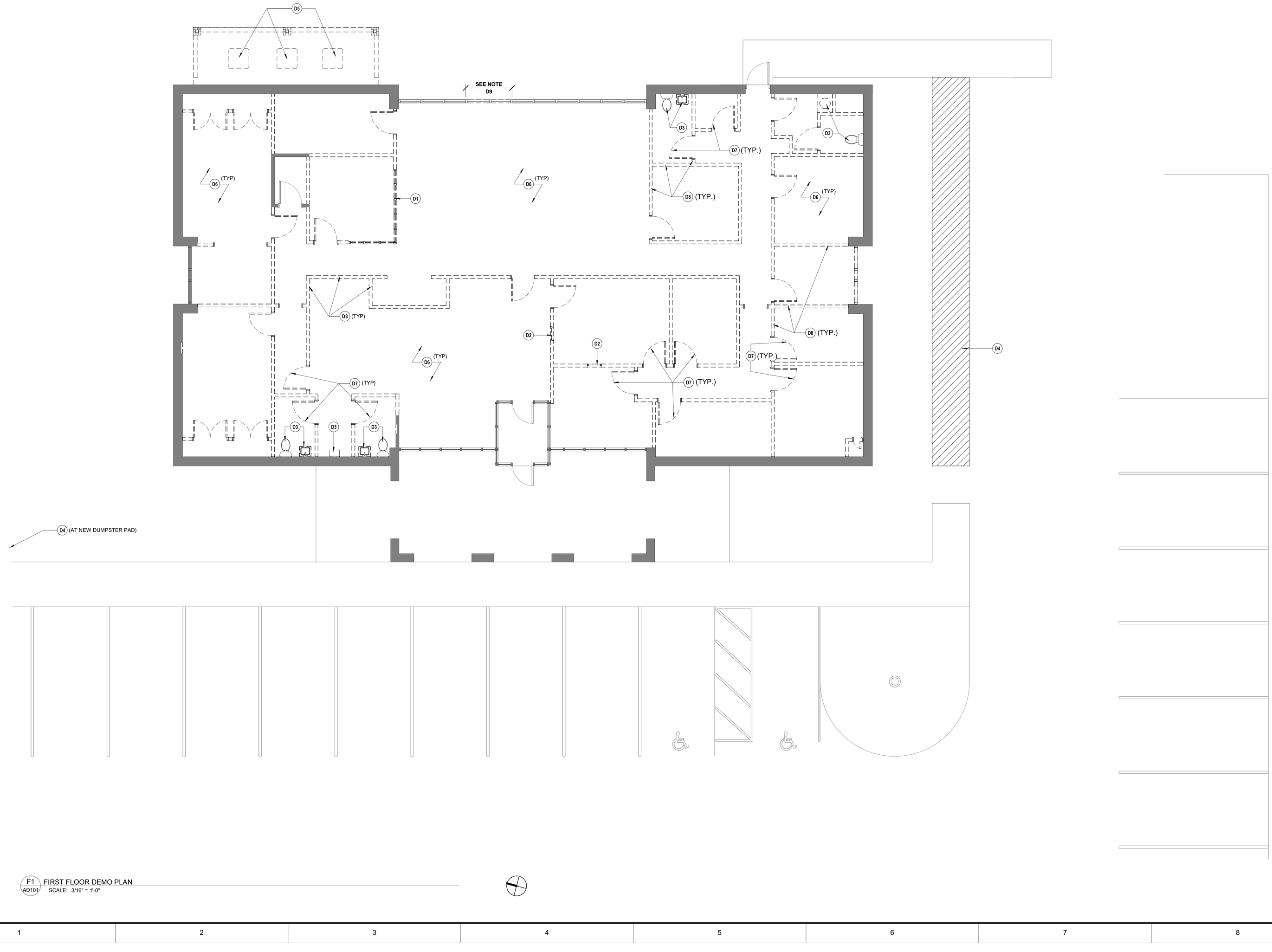

F1 / AD101 FIRST FLOOR DEMO PLAN
SCALE: 3/16" = 1'-0"

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NOTES:

D1	DEMOLISH INTERIOR STOREFRONT WALL IN ITS ENTIRITY.
D2	DEMOLISH INTERIOR WINDOW IN ITS ENTIRITY.
D3	REMOVE PLUMBING FIXTURES - SEE 'MEP' DRAWINGS.
D4	DEMOLISH EXISTING CONCRETE SIDEWALK.
D5	REMOVE HVAC EQUIPMENT - SEE 'MEP' DRAWINGS. REMOVE SURROUNDING WALLS IN THEIR ENTIRETY.
D6	REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY (TYPICAL ALL LOCATIONS).
D7	REMOVE ALL DOORS AND DOOR FRAMES CALLED OUT TO BE DEMOLISHED.
D8	PARTITION TO BE DEMOLISHED.
D9	PORTION OF EXISTING STOREFRONT TO BE DEMOLISHED TO ALLOW FOR INSTALLTION OF STOREFRONT DOOR.

LEGEND:

PARTITION TO BE DEMOLISHED (TYPICAL)

DOOR AND DOOR FRAME TO BE DEMOLISHED (TYPICAL)

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843.577.6073

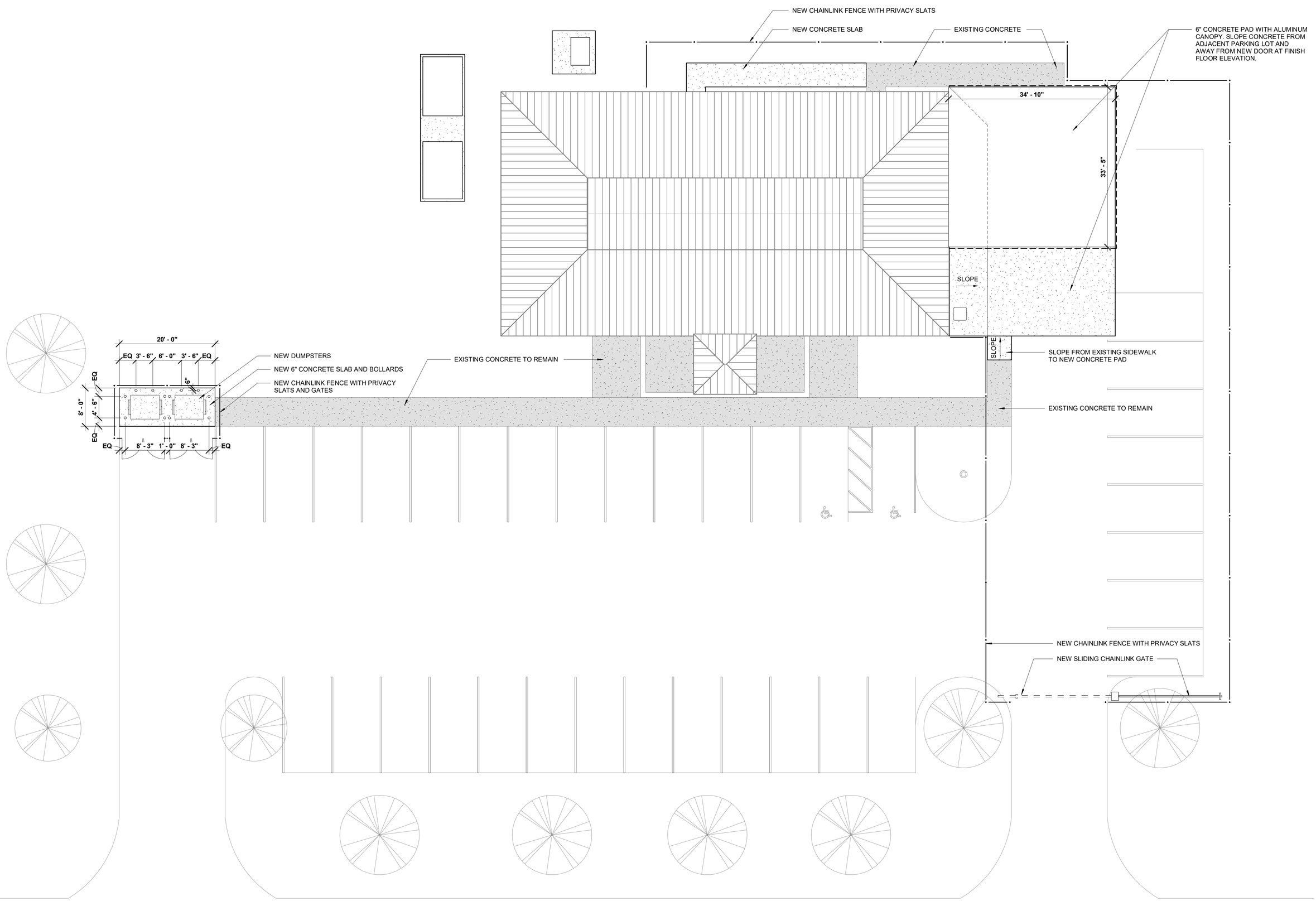
FIRST FLOOR DEMOLITION PLAN

SHEET NAME

PROJECT NUMBER	23019
DRAWN BY	BTN
CHECKED BY	JMC
DATE	07/20/2026
SCALE	As indicated

AD101

SHEET 5 OF
7/30/2026 2:37:50 PM



F1 A001 ARCHITECTURAL SITE PLAN
SCALE: 1" = 10'-0"

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NOTES:

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1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

ARCHITECTURAL SITE PLAN

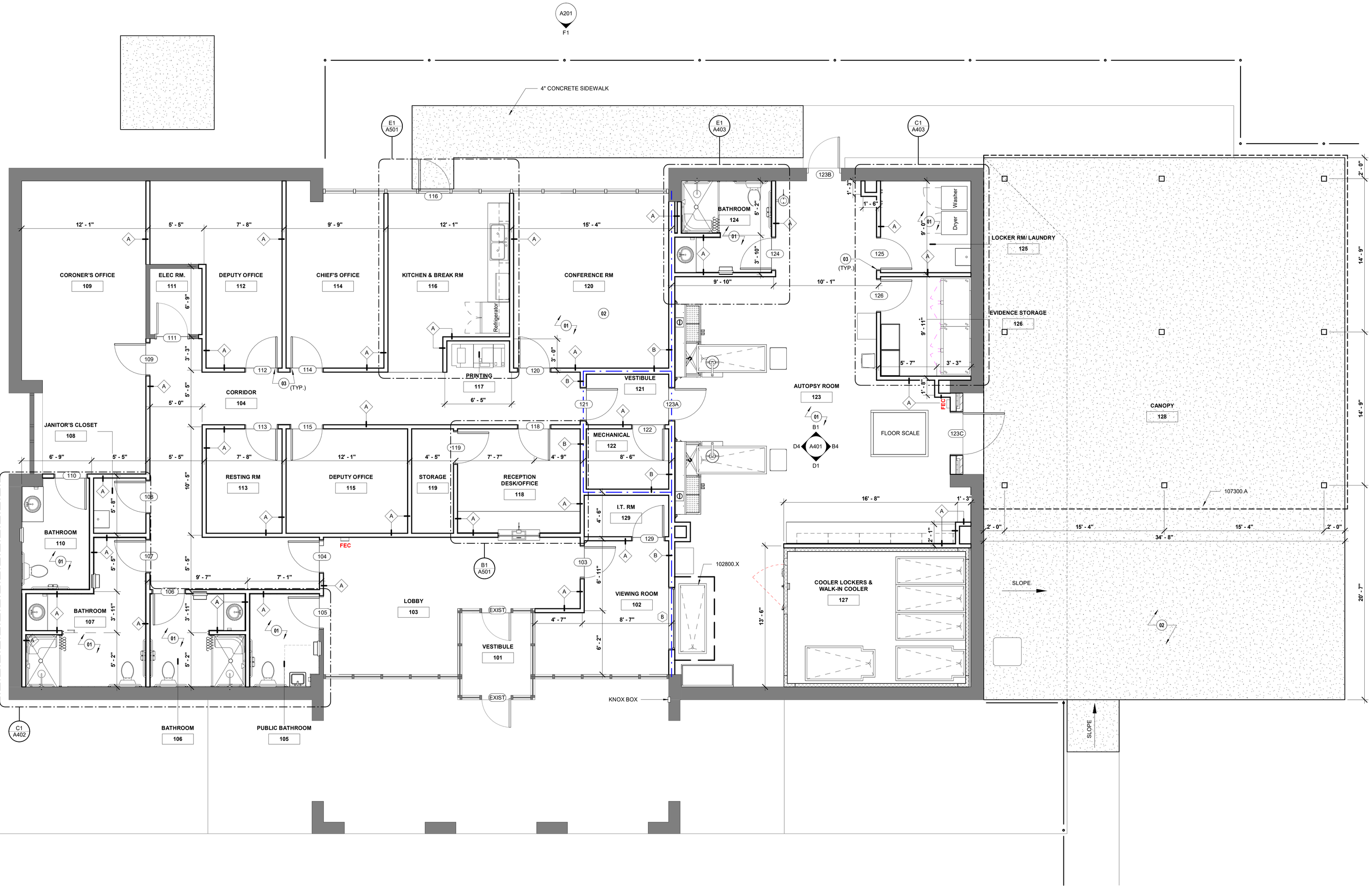
SHEET NAME

PROJECT NUMBER: 23019
DRAWN BY: BTN
CHECKED BY: JMC
DATE: 07/20/2026
SCALE: 1" = 10'-0"

A001

SHEET 6 OF
7/30/2026 2:37:50 PM

KEY VALUE	KEYNOTE TEXT
102800.X	SHOWER CURTAIN & ROD
107300.A	ALUMINUM WALKWAY COVERS



F1 A101 FIRST FLOOR PLAN - SCALE: 1/4" = 1'-0"

NOTES:

01	CUT OUT EXISTING SLAB AND TRENCH FOR INSTALLATION OF NEW PLUMBING SANITARY LINES. SEE 'MEP' DRAWINGS. INSTALL NEW VAPOR BARRIER AND NEW 4" CONCRETE SLAB TO INFILL SLAB. INSTALL #5 REBAR EACH SIDE MINIMUM 6" AT 16" O.C. AND EPOXY.
02	CUT OUT EXISTING PAVEMENT AND EXISTING SIDEWALK. INSTALL NEW 6" SLAB WITH METAL MESH AND #5 REBAR FOR UNLOADING AT CANOPY.
03	ALL INTERIOR DOORS TO BE 4" FROM ADJACENT WALL UNLESS SHOWN OTHERWISE.

STATE OF SOUTH CAROLINA — CAPLEA COE ARCHITECTS, INC. CHARLESTON B-78022 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — JOSHUA MICHAEL CAPLEA — Charleston, SC No. 6889 — REGISTERED ARCHITECT

SEALS

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COLLETON COUNTY CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

FIRST FLOOR PLAN

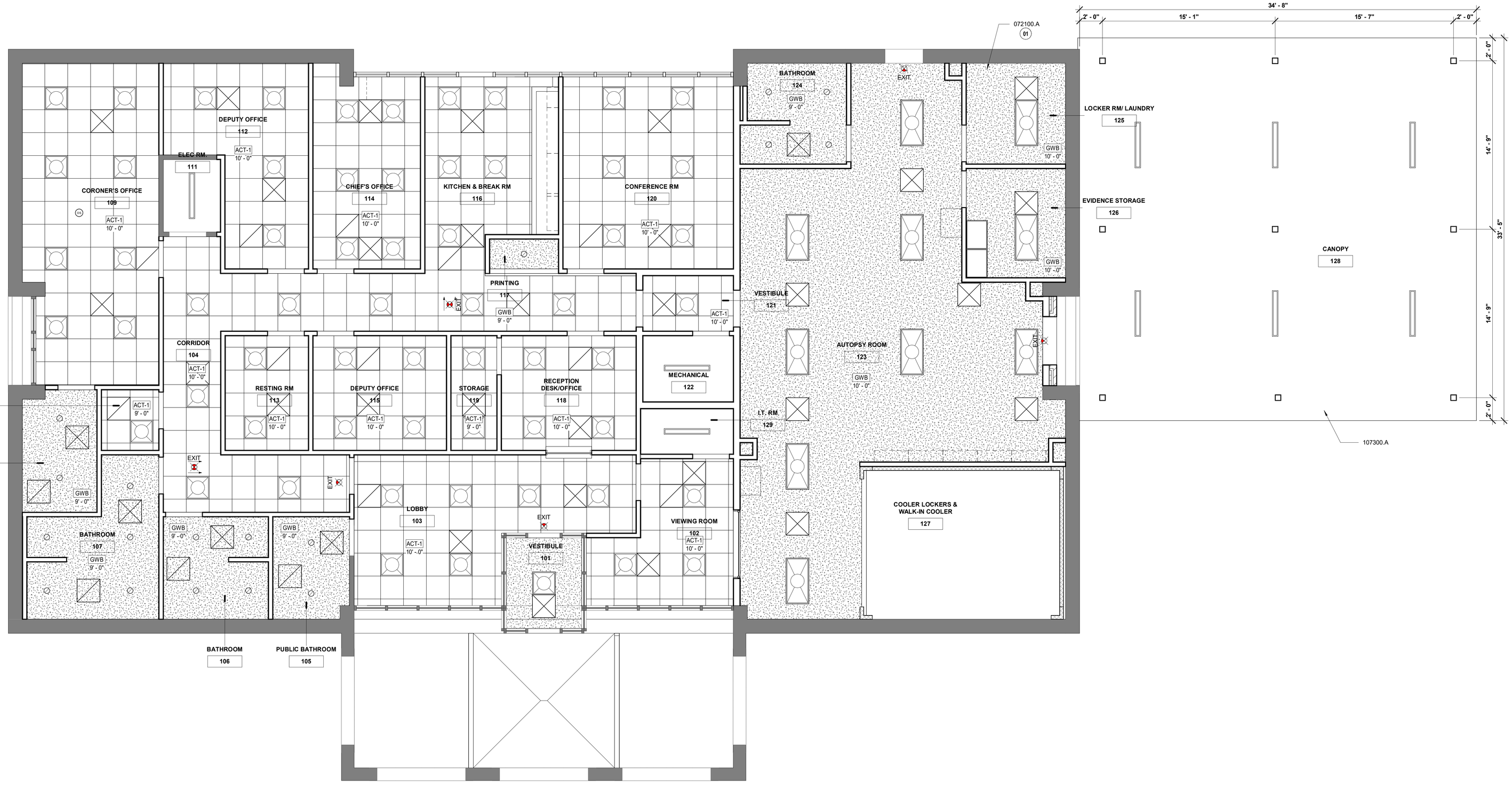
SHEET NAME

PROJECT NUMBER	23019
DRAWN BY	BTN
CHECKED BY	JMC
DATE	07/20/2026
SCALE	1/4" = 1'-0"

A101

SHEET 7 OF

7/30/2026 2:37:51 PM



F1 / A120 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

KEYNOTES

KEY VALUE	KEYNOTE TEXT
072100.A	THERMAL INSULATION
107300.A	ALUMINUM WALKWAY COVERS

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JOSHUA MICHAEL CAPLEA
Charleston, SC
No. 6889
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NOTES:

01	INSTALL 6" OPEN CELL SPRAY FOAM INSTALLATION AT EXISTING ROOF DECK (TYPICAL ALL LOCATIONS)

LEGEND:

- GYPSUM WALL BOARD CEILING SYSTEM
- ACOUSTIC CEILING SYSTEM
- 1' x 4' SUSPENDED LED
- 2' x 2' / 2' x 4' TROFFER
- 2' x 2' DIFFUSER
- 2' x 2' RETURN
- 6" RECESSED DOWNLIGHT

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CHARLESTON, SC 29412
843.577.6073

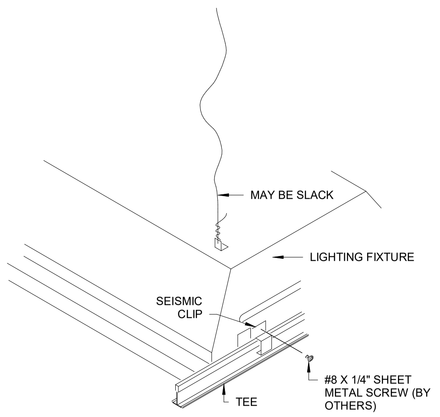
FIRST FLOOR REFLECTED CEILING PLAN

SHEET NAME

PROJECT NUMBER	23019
DRAWN BY	Author
CHECKED BY	Approver
DATE	07/20/2026
SCALE	As indicated

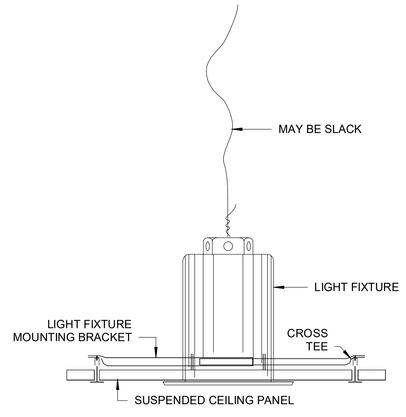
A120

CATEGORY D-F LAY-IN GRID LIGHT FIXTURE



FOR FIXTURES WEIGHING 56 LBS. OR MORE, INSTALL #12 GAUGE HANGER WIRE ATTACHED TO STRUCTURE ABOVE - ONE AT EACH CORNER OF FIXTURE FOR A TOTAL OF FOUR. HANGER WIRES MUST BE INSTALLED VERTICAL, BUT NOT MORE THAN 1 IN 6 OUT OF PLUMB. FOR FIXTURES WEIGHING LESS THAN 56 LBS., WIRES MAY BE INSTALLED SLACK AT TWO CORNERS, ONLY.

CATEGORY D-F CAN LIGHT FIXTURE



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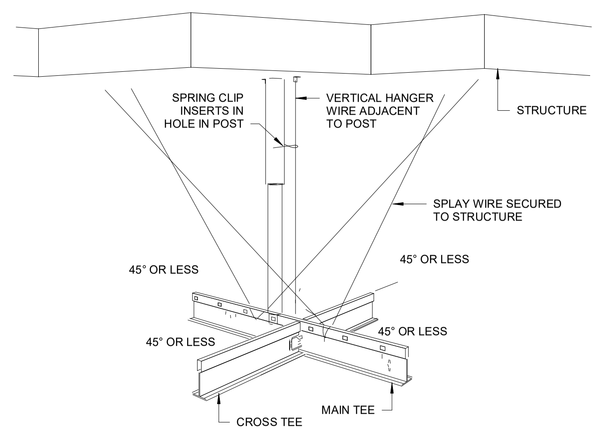
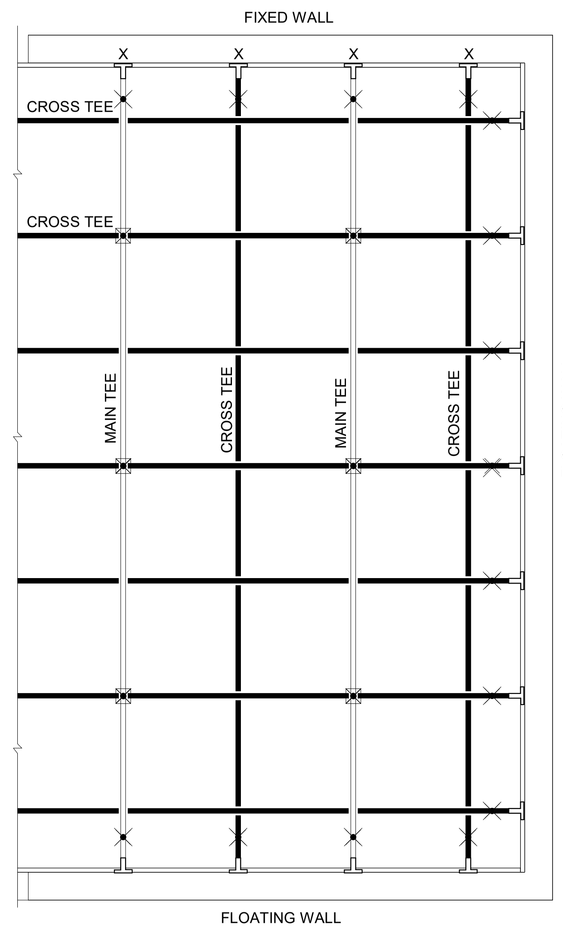
CATEGORY D-F LATERAL BRACING - REQUIRED AT ROOMS OVER 1000SF

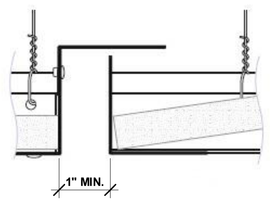


CATEGORY D-F SEISMIC CLIP CEILING LAYOUT

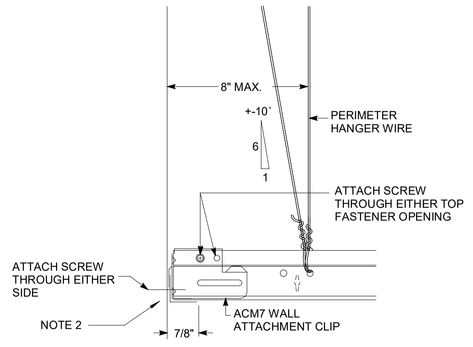


- 12-GAUGE HANGER WIRE
- SEISMIC CLIP - NO ATTACHMENT
- SEISMIC CLIP - ATTACHED WITH SCREW
- COMPRESSION POST / HANGER WIRE - NOTE 4/5

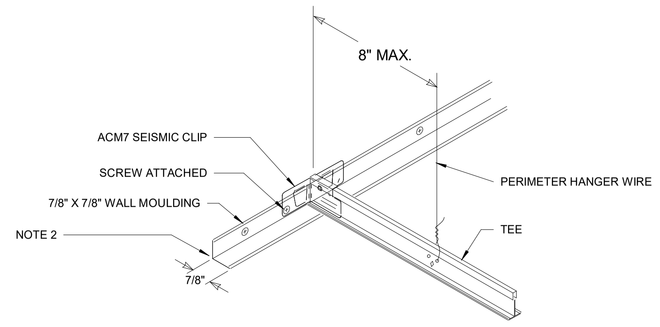
TYPICAL CEILING EXPANSION JOINT DETAIL



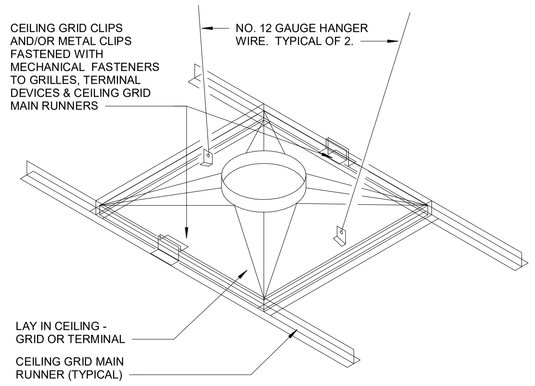
CATEGORY D-F PERIMETER TREATMENT FIXED WALL



CATEGORY D-F PERIMETER TREATMENT FIXED WALL

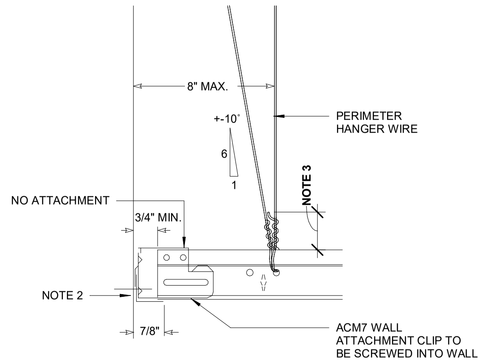


AIR TERMINAL / SERVICES SIESMIC RESTRAINT DETAIL

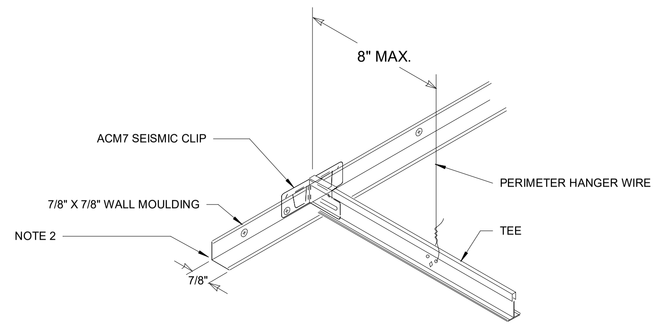


CEILING MOUNTED AIR TERMINALS OR SERVICES WEIGHING 20 LBS. OR LESS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR CROSS RUNNERS. AIR TERMINALS OR SERVICES WEIGHING MORE THAN 20 LBS & LESS THAN 56 LBS SHALL HAVE, IN ADDITION TO THE ATTACHMENTS NOTED ABOVE, TWO NO. 12 GAUGE HANGES CONNECTED TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. WIRES MAY BE SLACK. AIR TERMINALS OR SERVICES WEIGHING MORE THAN 56 LBS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

CATEGORY D-F PERIMETER TREATMENT FLOATING WALL



CATEGORY D-F PERIMETER TREATMENT FLOATING WALL



LIGHT FIXTURE ATTACHMENT	REQUIREMENTS
LIGHT FIXTURE (ALL TYPES) MECHANICALLY ATTACHED TO GRID NEC 410-16 (TWO PER FIXTURE UNLESS INDEPENDENTLY SUPPORTED)	180 LBS
- SURFACE-MOUNTED FIXTURES ATTACHED TO GRID	REQUIRED
- PENDANT-HUNG FIXTURES DIRECTLY SUPPORTED FROM STRUCTURE WITH 9-GAGUE WIRE (OR APPROVED ALTERNATIVE)	REQUIRED
- RIGID LAY-IN OR CAN LIGHT FIXTURES	HEAVY-DUTY
≤ 10LBS: ONE WIRE TO STRUCTURE (MAY BE SLACK)	REQUIRED
11 TO 56 LBS: TWO WIRES FROM HOUSING TO STRUCTURE (MAY BE SLACK)	REQUIRED
≥ 57LBS: SUPPORTED DIRECTLY TO STRUCTURE BY APPROVED HANGERS	REQUIRED

SERVICE APPLICATION	REQUIREMENTS
AIR TERMINALS	180 LBS
≤ 20 LBS: POSITIVELY ATTACHED TO GRID	REQUIRED
21 TO 56 LBS - POSITIVELY ATTACHED TO GRID & TWO WIRES TO STRUCTURE (MAY BE SLACK)	REQUIRED
≥ 57 LBS - DIRECTLY SUPPORTED TO STRUCTURE	HEAVY-DUTY
SPRINKLER HEADS & OTHER PENETRATION CLEARANCE	MIN 2" DIA. OPENING OR A SWING JOINT
CABLE TRAYS & ELECTRICAL CONDUIT INDEPENDENTLY SUPPORTED & BRACED	REQUIRED

BASIC CONNECTIONS, PERIMETER, & LATERAL SPLAY BRACING	REQUIREMENTS
HANGER WIRES SHALL ATTACH TO STRUCTURE. ATTACHMENT TO ROOF SHEATHING OR ROOF DECKING IS NOT ALLOWED.	REQUIRED
MIN. INTERSECTION STRENGTH LIMITS @ MT/CT	180 LBS
VERTICAL HANGER WIRE 12-GAGUE @ 4'O.C.	REQUIRED
CONNECTION DEVICE FROM VETICAL WIRE TO THE STRUCTURE ABOVE MUST SUSTAIN MIN 100LBS	REQUIRED
MAIN TEE CLASSIFICATIONS	HEAVY-DUTY
1 IN 6 MAX PLUMB OF VERTICAL HANGER WIRES	REQUIRED
PERIMETER VERTICAL HANGER WIRES NOT MORE THAN 8" FROM ALL	REQUIRED
GRID END/WALL CLEARANCE	MIN 3/4"
PERIMETER CLOSURE(MOLDING) WIDTH	MIN 2"
GRID CONNECTION TO PERIMETER ATTACHED ON TWO ADJACENT WALLS	REQUIRED
PERIMETER TEE ENDS TIED TOGETHER	REQUIRED
HORIZONTAL RESTRAINT(SPLAY WIRES OR RIGID BRACING) WITHIN 2' OF INTERSECTION & SPLAYED 90 DEG. APARAT AT 45 DEG. ANGLES	REQUIRED(CEILINGS LARGER THAN 1000SF, WHERE DESIGN CALCS NOT PROVIDED)
COMPRESSION POSTS(STRUTS) 12' O.C. IN BOTH DIRECTIONS, STARTING 6' FROM WALLS	REQUIRED(CEILINGS LARGER THAN 1000SF, WHERE DESIGN CALCS NOT PROVIDED)
SPLAY BRACING CONNECTION STRENGTH 200LBS OR THE DESIGN LOAD, WHICHEVER IS GREATER	REQUIRED
PARTITION ATTACHMENT	BRACING INDEPENDENT OF CEILING SPLAY BRACING
SEISMIC SEPARATION JOINT	REQ'D FOR AREAS > 2,500 SF (OR FULL HEIGHT PARTITION)
RIGID BRACING FOR CEILING PLANE ELEVATION CHANGES	REQUIRED

ATTACHMENT NOTES:

CEILING MOUNTED AIR TERMINALS OR SERVICES WEIGHING 20 LBS. OR LESS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR CROSS RUNNERS.

AIR TERMINALS OR SERVICES WEIGHING MORE THAN 20 LBS & LESS THAN 56 LBS SHALL HAVE, IN ADDITION TO THE ATTACHMENTS NOTED ABOVE, TWO NO. 12 GAUGE HANGES CONNECTED TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. WIRES MAY BE SLACK. AIR TERMINALS OR SERVICES WEIGHING MORE THAN 56 LBS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

UPDATED: 07/18/2022 RML

STATE OF SOUTH CAROLINA — CAPLEA COE ARCHITECTS, INC. CHARLESTON B-78022 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — JOSHUA MICHAEL CAPLEA, Charleston, SC No. 6889 — REGISTERED ARCHITECT

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NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING LOCATIONS OF SPLAY WIRES & COMPRESSION POSTS PRIOR TO START OF ANY CEILING INSTALLATION

2. APPLY ACOUSTICAL JOINT SEALANT AT PERIMETER EDGE MOLDINGS OF ACOUSTICAL CEILING AREAS IN A CONTINUOUS RIBBON CONCEALED ON BACK OF VERTICAL LEGS OF MOLDINGS BEFORE THEY ARE INSTALLED.

3. 3 TWISTS WITHIN 1"

4. COMPRESSION POSTS (ROOMS OVER 1000 SF), POSTS ARE TO BE POSITIONED AT 4'-0" C/C ON GRID. SEE LATERAL BRACING DETAIL FOR LAYOUT OF WIRE & COMPRESSION POST.

5. HANGER WIRE (ROOMS UNDER 1000 SF). WIRES ARE TO BE POSITIONED AT 4'-0" C/C ON GRID.

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

TYPICAL SEISMIC CEILING DETAILS

SHEET NAME

PROJECT NUMBER	23019
DRAWN BY	BTN
CHECKED BY	JMC
DATE	07/20/2026
SCALE	12" = 1'-0"

A124

SHEET 10 OF 59

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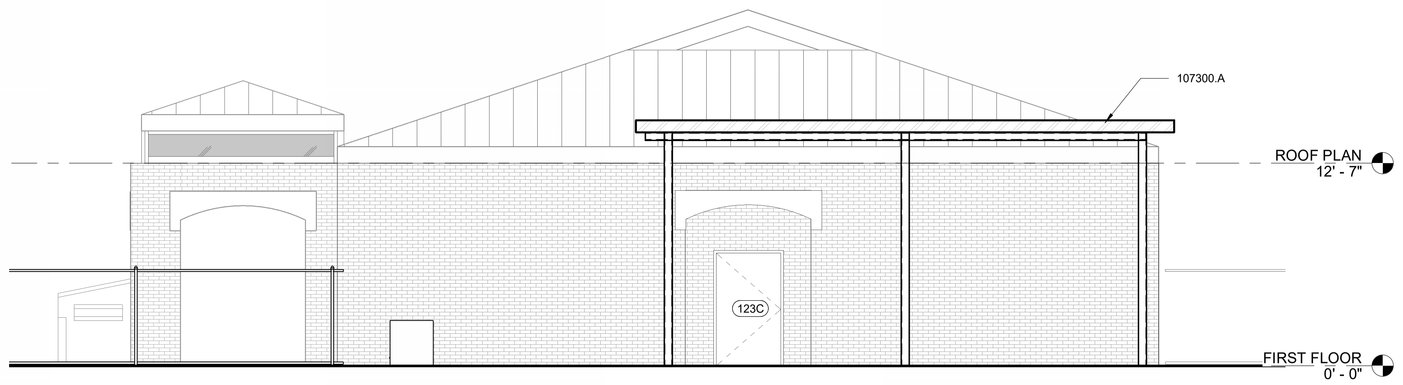
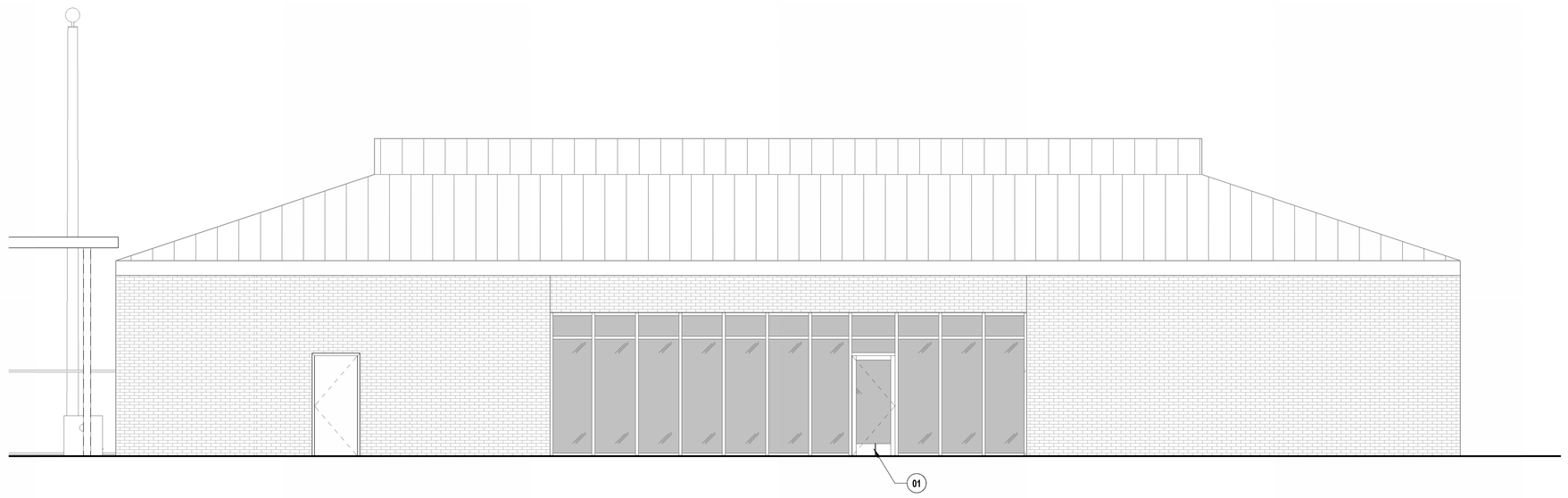


B4 / A201 Elevation 2 - a
SCALE: 3/16" = 1'-0"



F1 / A201 Elevation 4 - a
SCALE: 3/16" = 1'-0"

KEYNOTES

KEY VALUE	KEYNOTE TEXT
107300.A	ALUMINUM WALKWAY COVERS

STATE OF SOUTH CAROLINA
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CHARLESTON
B-78022
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STATE OF SOUTH CAROLINA
JOSHUA MICHAEL CAPLEA
Charleston, SC
No. 6889
REGISTERED ARCHITECT

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NOTES:

01	ADJUST EXISTING ALUMINUM STOREFRONT SYSTEM TO INSTALL NEW 3'-0" X 7'-0" STOREFRONT DOOR.

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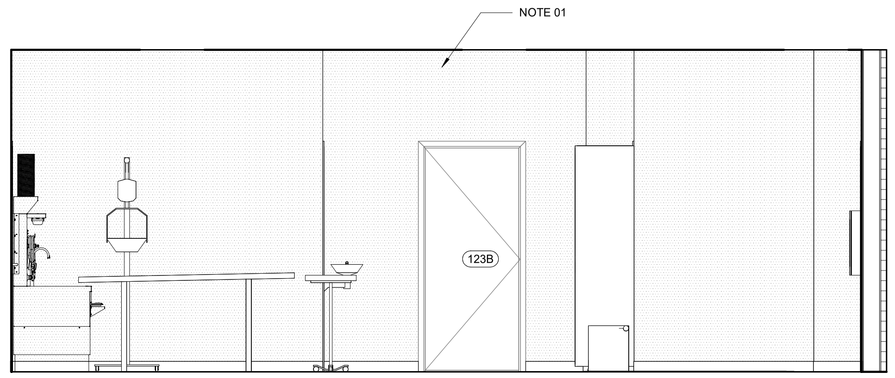
EXTERIOR ELEVATIONS

SHEET NAME

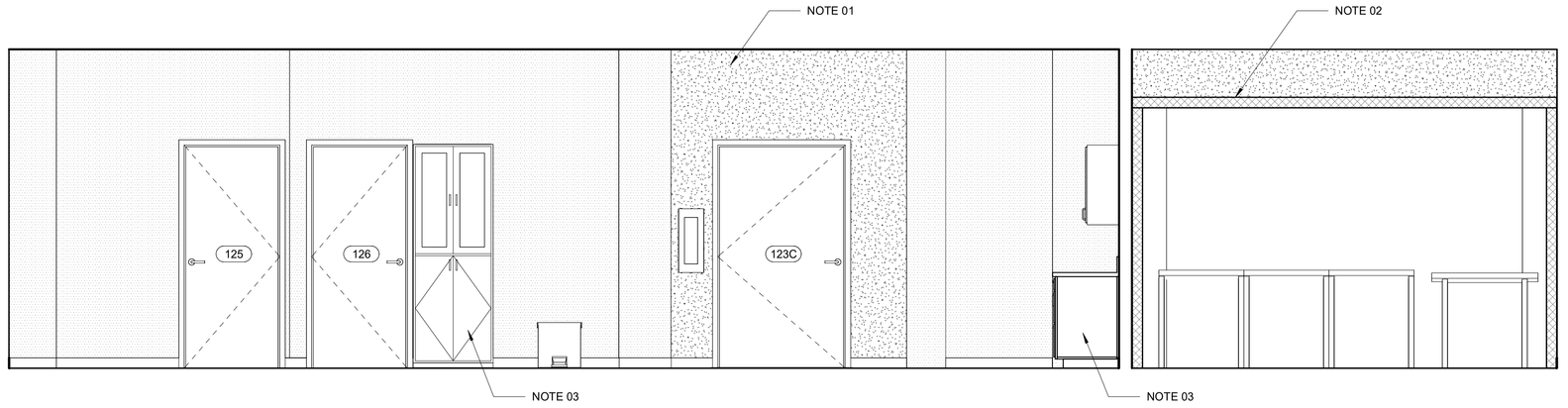
PROJECT NUMBER	23019
DRAWN BY	BTN
CHECKED BY	JMC
DATE	07/20/2026
SCALE	3/16" = 1'-0"

A201

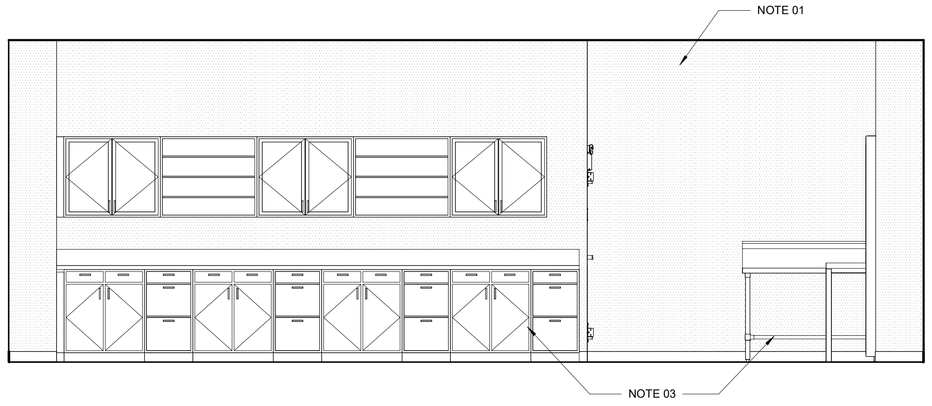
SHEET 11 OF 59
7/30/2026 2:37:53 PM



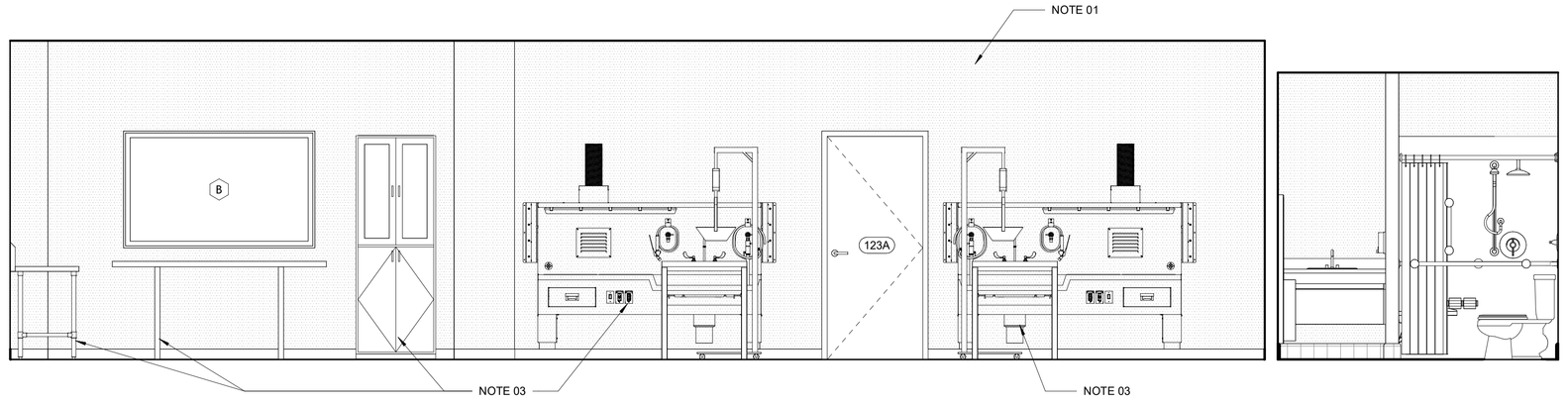
B1 A401 NORTH ELEVATION
SCALE: 3/8" = 1'-0"



B4 A401 EAST ELEVATION
SCALE: 3/8" = 1'-0"



D1 A401 SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



D4 A401 WEST ELEVATION
SCALE: 3/8" = 1'-0"

STATE OF SOUTH CAROLINA
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CHARLESTON
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STATE OF SOUTH CAROLINA
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NOTES:

01 FRP PANELS ON ALL AUTOPSY WALLS, CONTINUOUS FROM EPOXY BASE TO CEILING.
02 COOLER TO HAVE MATCHING CEILING CLOSURE PANELS - SEE DETAIL F7/A701.
03 ALL AUTOPSY ROOM EQUIPMENT IS TO BE PART OF THE PROJECT. CONTRACTOR TO PURCHASE AND INSTALL EQUIPMENT LIFT PROVIDED BY OWNER.

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CHARLESTON, SC 29412
843.577.6073

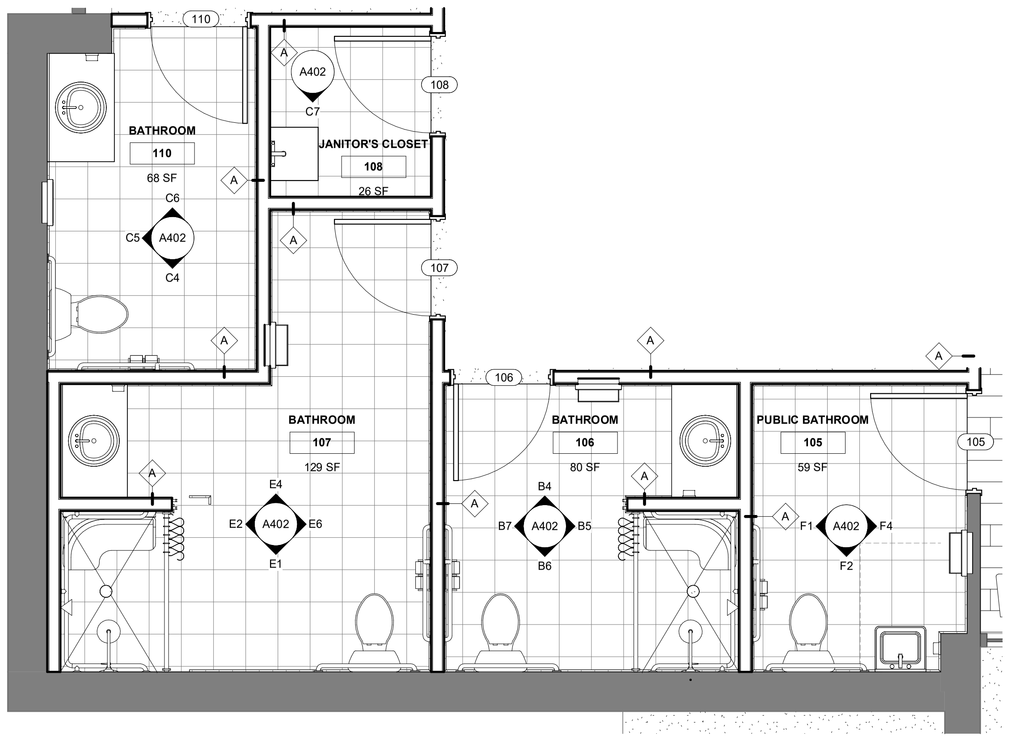
INTERIOR ELEVATIONS

SHEET NAME

PROJECT NUMBER	23019
DRAWN BY	BTN
CHECKED BY	JMC
DATE	07/20/2026
SCALE	3/8" = 1'-0"

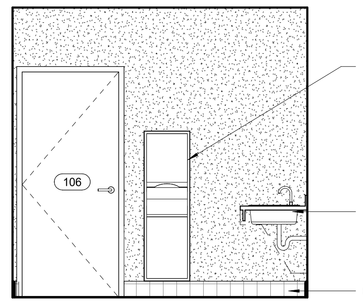
A401

ROOM 105,106,107,108, & 110 - BATHROOMS AND JANITOR'S CLOSET PLANS

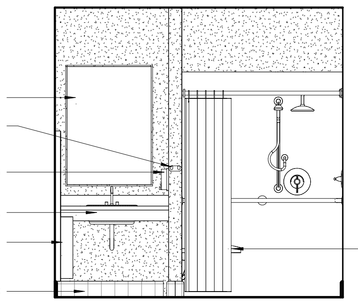


C1 A402 ENLARGED FLOOR PLAN - BATHROOMS AND JANITOR'S CLOSET
SCALE: 3/8" = 1'-0"

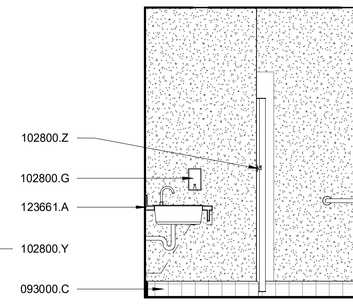
ROOM 106 - BATHROOM INTERIOR ELEVATIONS



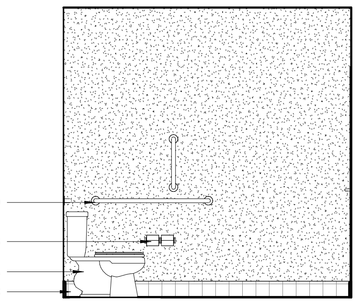
B4 A402 ROOM 106 - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



B5 A402 ROOM 106 - EAST ELEVATION
SCALE: 3/8" = 1'-0"

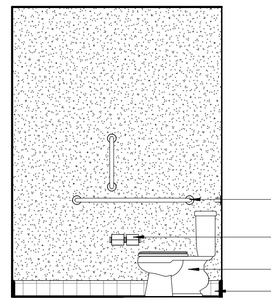


B6 A402 ROOM 106 - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"

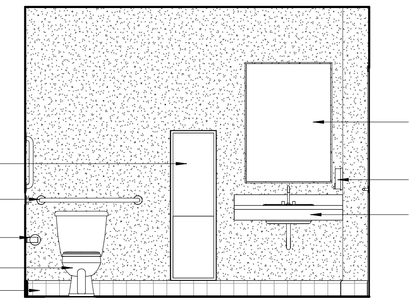


B7 A402 ROOM 106 - WEST ELEVATION
SCALE: 3/8" = 1'-0"

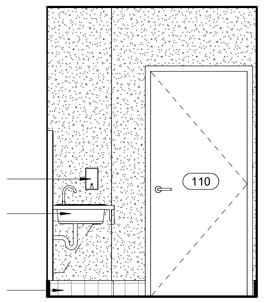
ROOM 108 & 110 - JANITOR'S CLOSET AND BATHROOM INTERIOR ELEVATIONS



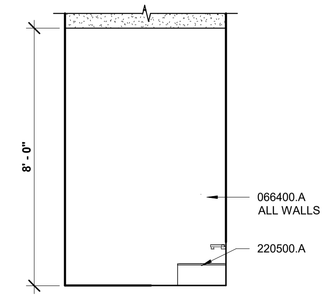
C4 A402 ROOM 110 - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



C5 A402 ROOM 110 - WEST ELEVATION
SCALE: 3/8" = 1'-0"

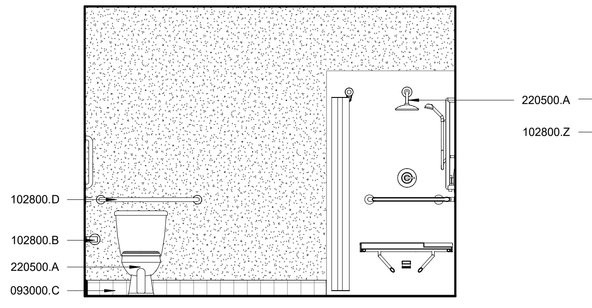


C6 A402 ROOM 110 - NORTH ELEVATION
SCALE: 3/8" = 1'-0"

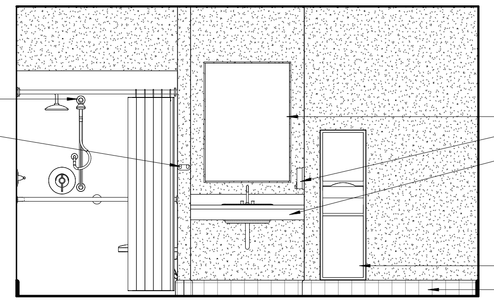


C7 A402 JANITOR'S CLOSET
SCALE: 3/8" = 1'-0"

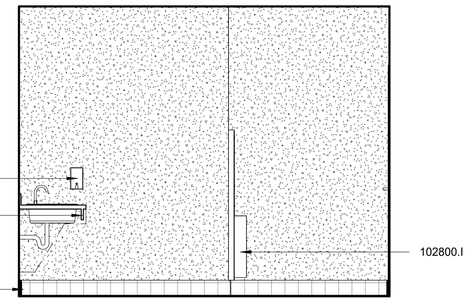
ROOM 107 - BATHROOM INTERIOR ELEVATIONS



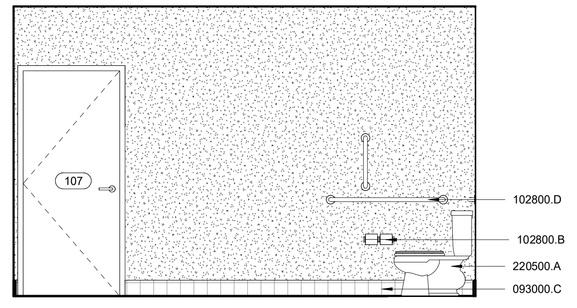
E1 A402 ROOM 107 - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



E2 A402 ROOM 107 - WEST ELEVATION
SCALE: 3/8" = 1'-0"

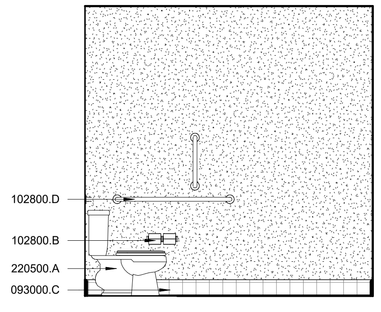


E4 A402 ROOM 107 - NORTH ELEVATION
SCALE: 3/8" = 1'-0"

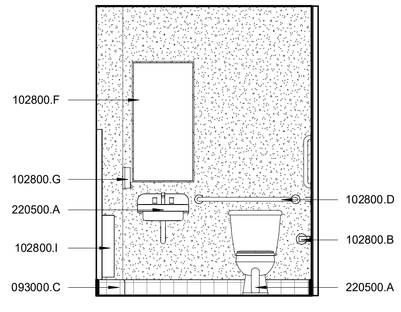


E6 A402 ROOM 107 - EAST ELEVATION
SCALE: 3/8" = 1'-0"

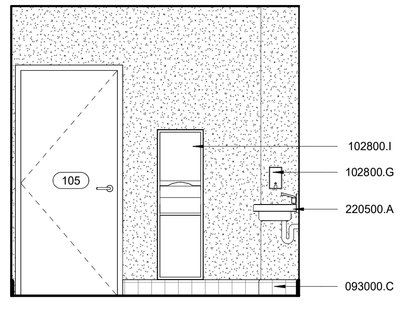
ROOM 105 - PUBLIC BATHROOM INTERIOR ELEVATIONS



F1 A402 ROOM 105 - WEST ELEVATION
SCALE: 3/8" = 1'-0"



F2 A402 ROOM 105 - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



F4 A402 ROOM 105 - EAST ELEVATION
SCALE: 3/8" = 1'-0"

STATE OF SOUTH CAROLINA
CAPLEA COE ARCHITECTS, INC.
CHARLESTON
B-78022
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
JOSHUA MICHAEL CAPLEA
Charleston, SC
No. 6889
REGISTERED ARCHITECT

SEALS

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NOTES:

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
051200.E	STEEL PLATE - SEE 'S' SHEETS
066400.A	FIBERGLASS REINFORCED PANELING
093000.C	CERAMIC TILE BASE
102800.B	TOILET PAPER DISPENSER
102800.D	GRAB BAR
102800.F	MIRROR UNIT
102800.G	SOAP DISPENSER
102800.I	COMBO SEMI RECESSED PAPER TOWEL DISPENSER/TRASHCAN
102800.Y	FOLDING SHOWER SEAT
102800.Z	ROBE HOOK
123661.A	SIMULATED STONE COUNTERTOPS
220500.A	PLUMBING FIXTURES - SEE 'P' SHEETS

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS

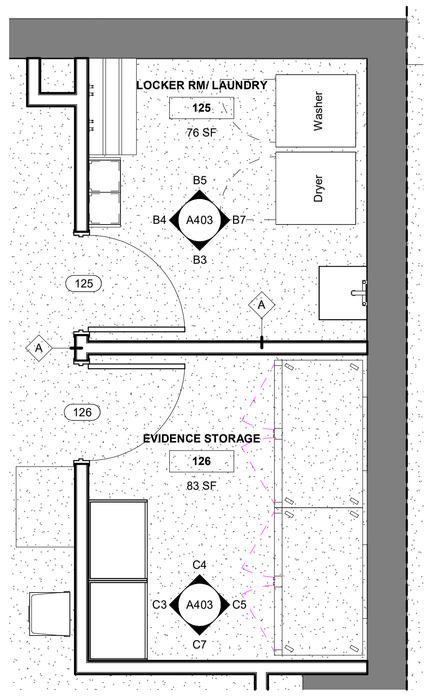
SHEET NAME

PROJECT NUMBER	23019
DRAWN BY	BTN
CHECKED BY	JMC
DATE	07/20/2026
SCALE	3/8" = 1'-0"

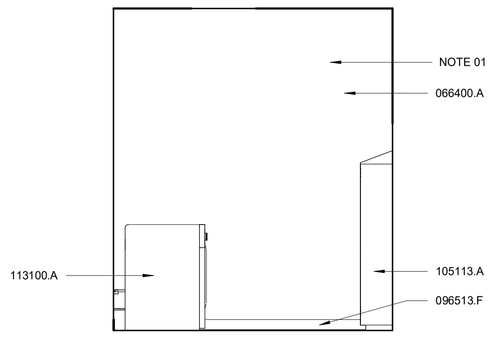
A402

SHEET 13 OF
7/30/2026 2:37:55 PM

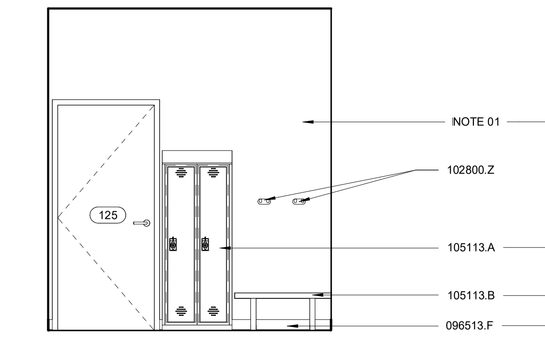
ROOM 125 & 126 - LOCKER RM / LAUNDRY PLAN AND INTERIOR ELEVATIONS



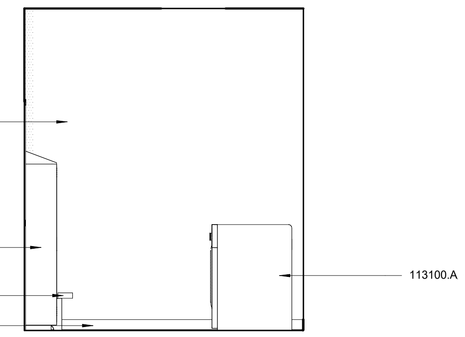
C1 / A403 LOCKER RM/LAUNDRY 125 - ENLARGED FLOOR PLAN
SCALE: 3/8" = 1'-0"



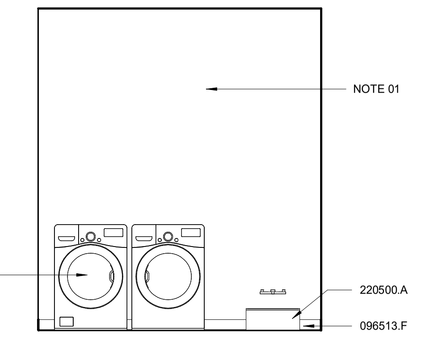
B3 / A403 LOCKER RM/LAUNDRY 125 - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



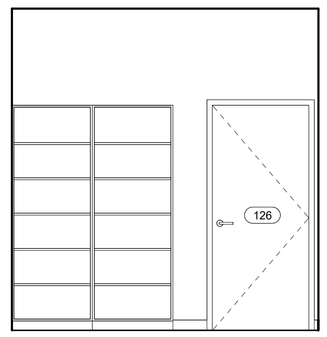
B4 / A403 LOCKER RM/LAUNDRY 125 - WEST ELEVATION
SCALE: 3/8" = 1'-0"



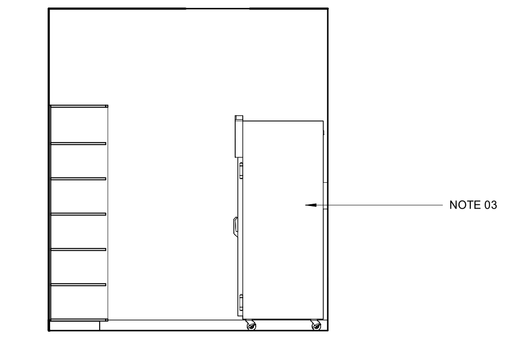
B5 / A403 LOCKER RM/LAUNDRY 125 - NORTH ELEVATION 3
SCALE: 3/8" = 1'-0"



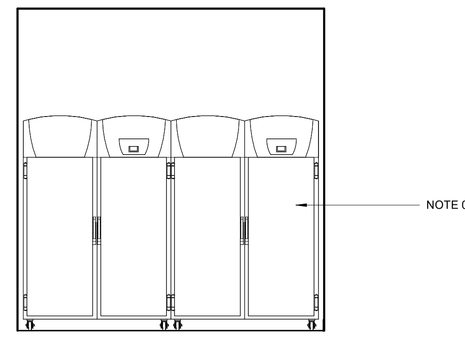
B7 / A403 LOCKER RM/LAUNDRY 125 - EAST ELEVATION 4
SCALE: 3/8" = 1'-0"



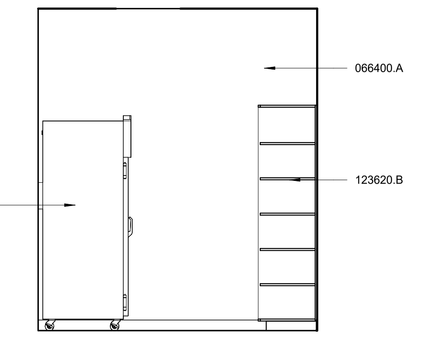
C3 / A403 EVIDENCE STORAGE - WEST ELEVATION
SCALE: 3/8" = 1'-0"



C4 / A403 EVIDENCE NORTH ELEVATION
SCALE: 3/8" = 1'-0"

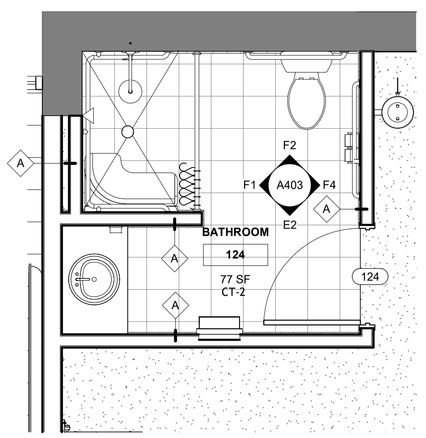


C5 / A403 EVIDENCE STORAGE -EAST ELEVATION
SCALE: 3/8" = 1'-0"

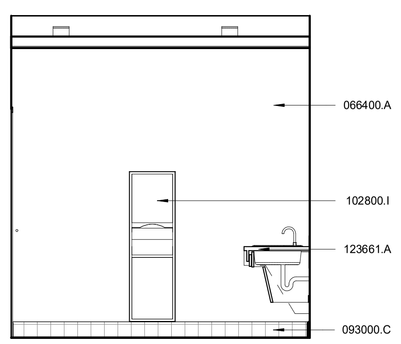


C7 / A403 EVIDENCE STORAGE - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"

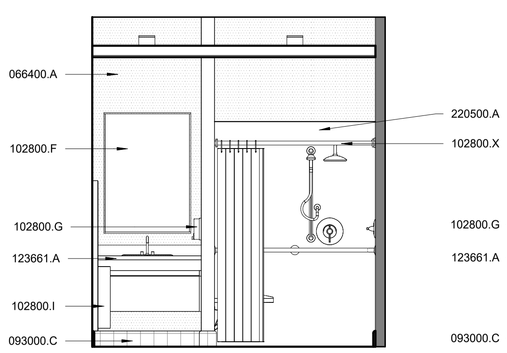
ROOM 124 - BATHROOM PLAN AND INTERIOR ELEVATIONS



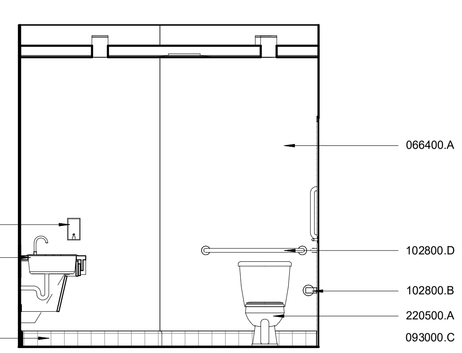
E1 / A403 BATHROOM 124 - ENLARGED FLOOR PLAN
SCALE: 3/8" = 1'-0"



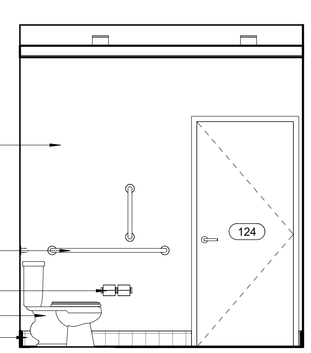
E2 / A403 BATHROOM 124 - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



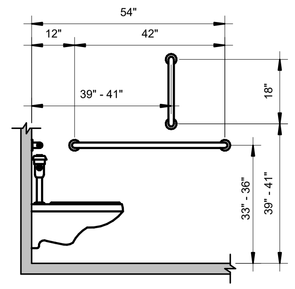
F1 / A403 BATHROOM 124 - WEST ELEVATION
SCALE: 3/8" = 1'-0"



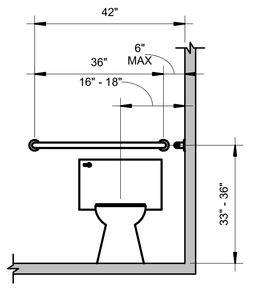
F2 / A403 BATHROOM 124 - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



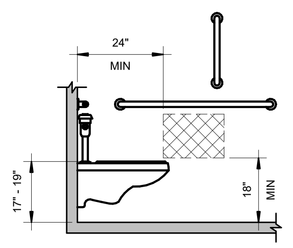
F4 / A403 BATHROOM 124 - EAST ELEVATION
SCALE: 3/8" = 1'-0"



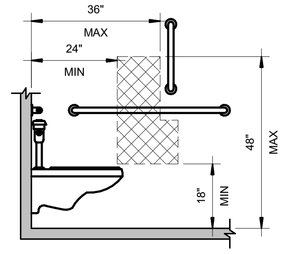
SIDE WALL GRAB BAR FOR WATER CLOSET



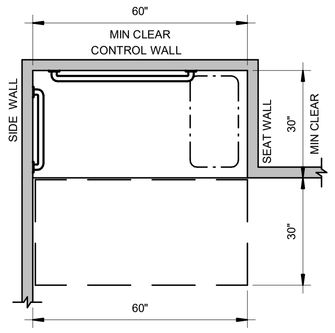
REAR WALL GRAB BAR FOR WATER CLOSET



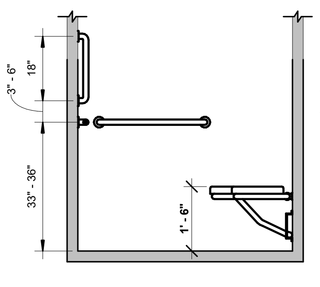
WC SEAT HEIGHT & PROTRUDING DISPENSER LOCATION



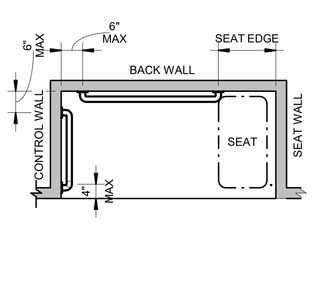
RECESSED DISPENSER LOCATION



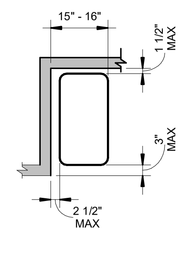
STANDARD ROLL IN TYPE SHOWER



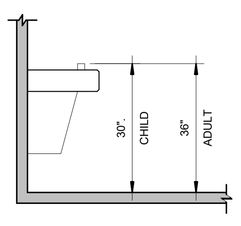
GRAB BARS - ROLL IN SHOWER (ELEVATION)



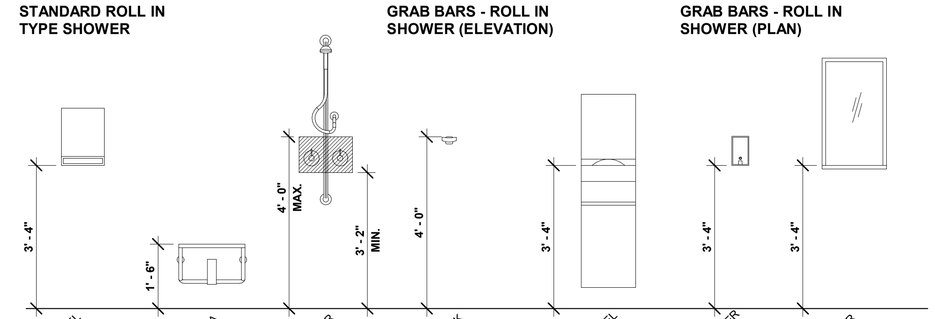
GRAB BARS - ROLL IN SHOWER (PLAN)



SHOWER COMPARTMENT SEATS



DRINKING FOUNTAIN SPOUT HEIGHT (WHEELCHAIR)



5 / A403 TOILET ACCESSORY MOUNTING HEIGHT
SCALE: 1/2" = 1'-0"

DETAILS ARE GENERAL DETAILS FOR CLEARANCES AND DIMENSIONS. REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR PROJECT SPECIFIC INFORMATION

CAPLEA COE ARCHITECTS, INC.
CHARLESTON
B-78022
REGISTERED ARCHITECTS
STATE OF SOUTH CAROLINA

JOSHUA MICHAEL CAPLEA
Charleston, SC
No. 6889
REGISTERED ARCHITECT
STATE OF SOUTH CAROLINA

SEALS

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NOTES:

01 FRP PANELS ON ALL AUTOPSY WALLS, CONTINUOUS FROM EPOXY BASE TO CEILING.
02 ALL AUTOPSY ROOM EQUIPMENT IS TO BE PART OF THE PROJECT. CONTRACTOR TO PURCHASE AND INSTALL EQUIPMENT LIFT PROVIDED BY OWNER.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
066400.A	FIBERGLASS REINFORCED PANELING
093000.C	CERAMIC TILE BASE
096513.F	6 IN. RESILIENT BASE (BY OWNER)
102800.B	TOILET PAPER DISPENSER
102800.D	GRAB BAR
102800.F	MIRROR UNIT
102800.G	SOAP DISPENSER
102800.I	COMBO SEMI RECESSED PAPER TOWEL DISPENSER/TRASHCAN
102800.X	SHOWER CURTAIN & ROD
102800.Z	ROBE HOOK
105113.A	METAL LOCKERS
105113.B	LOCKER ROOM BENCH
113100.A	RESIDENTIAL APPLIANCES
123620.B	METAL SHELVING UNIT
123661.A	SIMULATED STONE COUNTERTOPS
220500.A	PLUMBING FIXTURES - SEE 'P' SHEETS

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

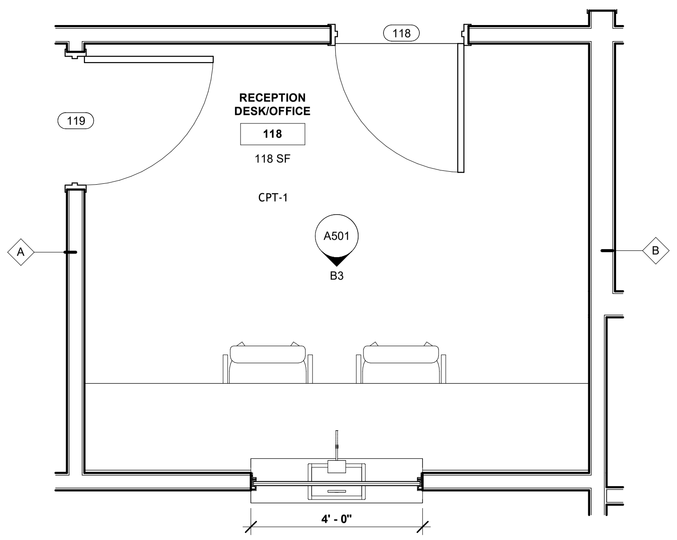
ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS

SHEET NAME

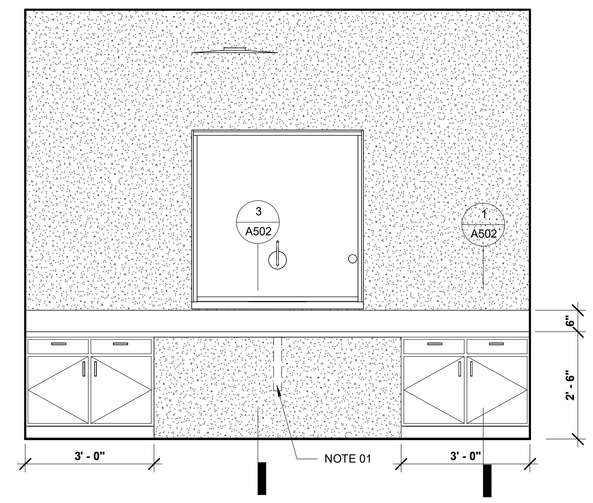
PROJECT NUMBER	23019
DRAWN BY	BTN
CHECKED BY	JMC
DATE	07/20/2026
SCALE	As indicated

A403

SHEET 14 OF
7/30/2026 2:37:56 PM

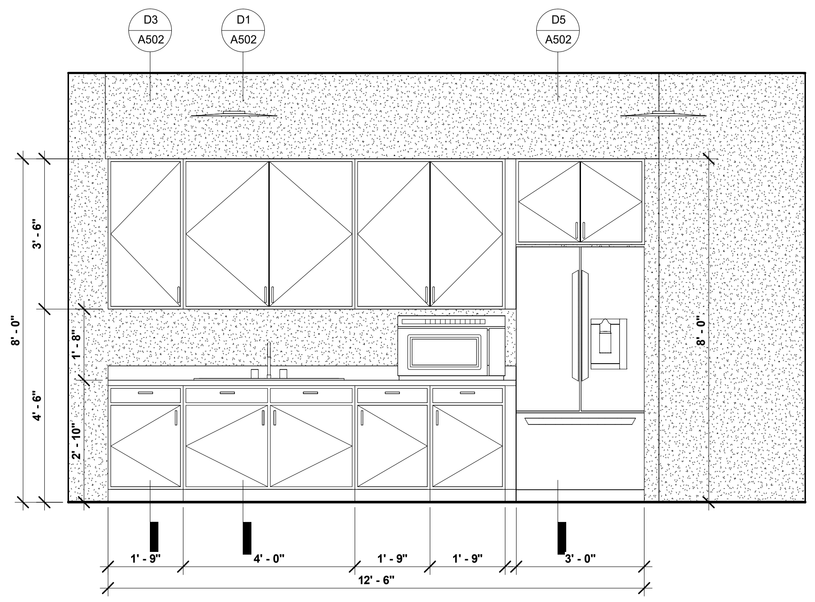


B1 A501 RECEPTION - ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



B3 A501 RECEPTION - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"

E1 A501 KITCHEN AND BREAK RM - ENLARGED FLOOR PLAN
SCALE: 1/2" = 1'-0"



E3 A501 KITCHEN - EAST ELEVATION
SCALE: 1/2" = 1'-0"

STATE OF SOUTH CAROLINA
CAPLEA COE ARCHITECTS, INC.
CHARLESTON
B-78022
REGISTERED ARCHITECTS
STATE OF SOUTH CAROLINA
JOSHUA MICHAEL CAPLEA
Charleston, SC
No. 6889
REGISTERED ARCHITECT
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NOTES:

01 PROVIDE SHELF BRACKET AT CENTER OF KNEE SPACE WHICH HAS A SPAN OVER 3'-0".

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

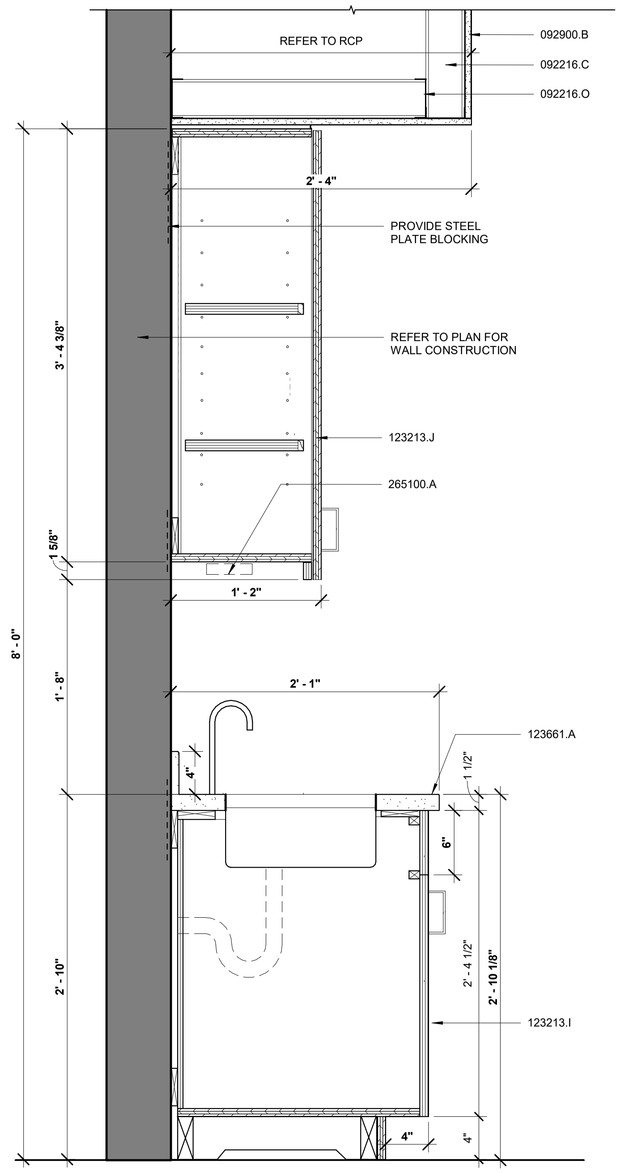
CASEWORK PLANS AND ELEVATION

SHEET NAME

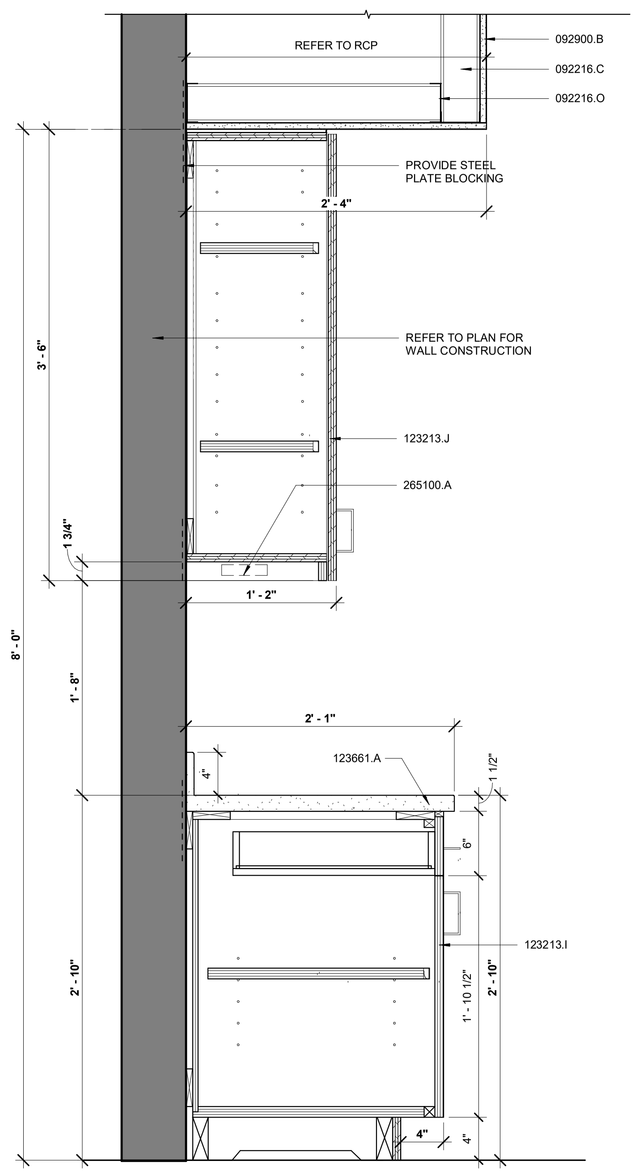
PROJECT NUMBER 23019
DRAWN BY BTN
CHECKED BY JMC
DATE 07/20/2026
SCALE 1/2" = 1'-0"

A501

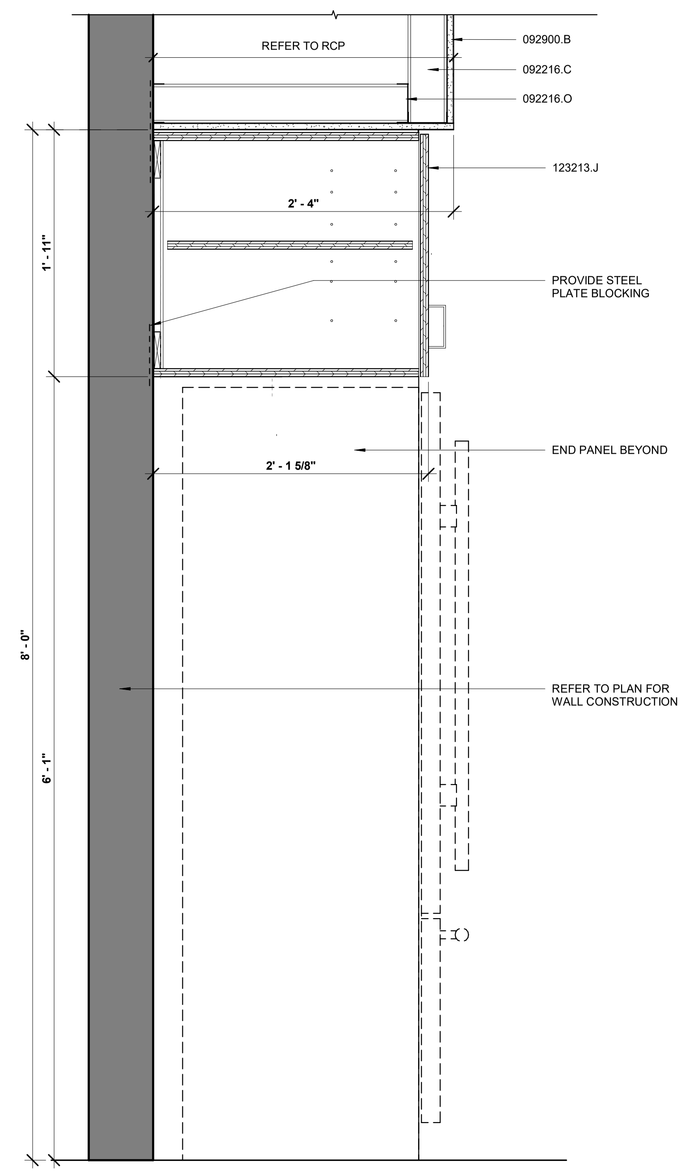
SHEET 15 OF 59
7/30/2026 2:37:57 PM



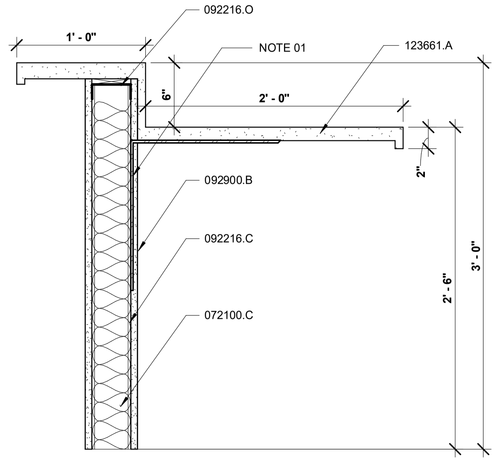
D1 / A502 CASEWORK SECTION - KITCHEN CABINETS @ SINK
SCALE: 1 1/2" = 1'-0"



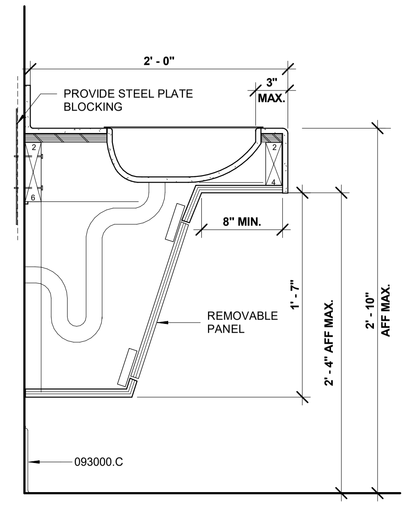
D3 / A502 CASEWORK SECTION - KITCHEN CABINETS @ DRAWER
SCALE: 1 1/2" = 1'-0"



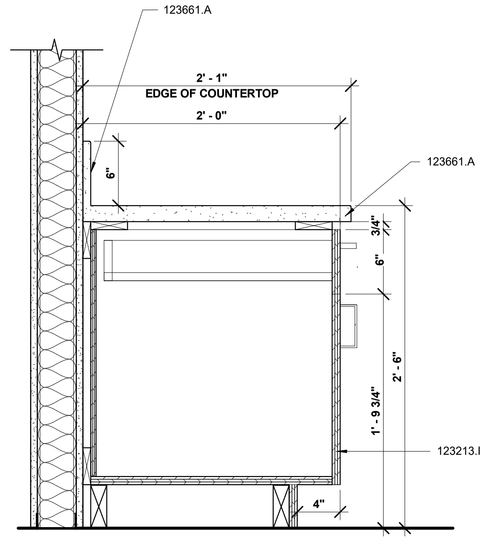
D5 / A502 CASEWORK SECTION - KITCHEN CABINETS @ REFRIGERATOR
SCALE: 1 1/2" = 1'-0"



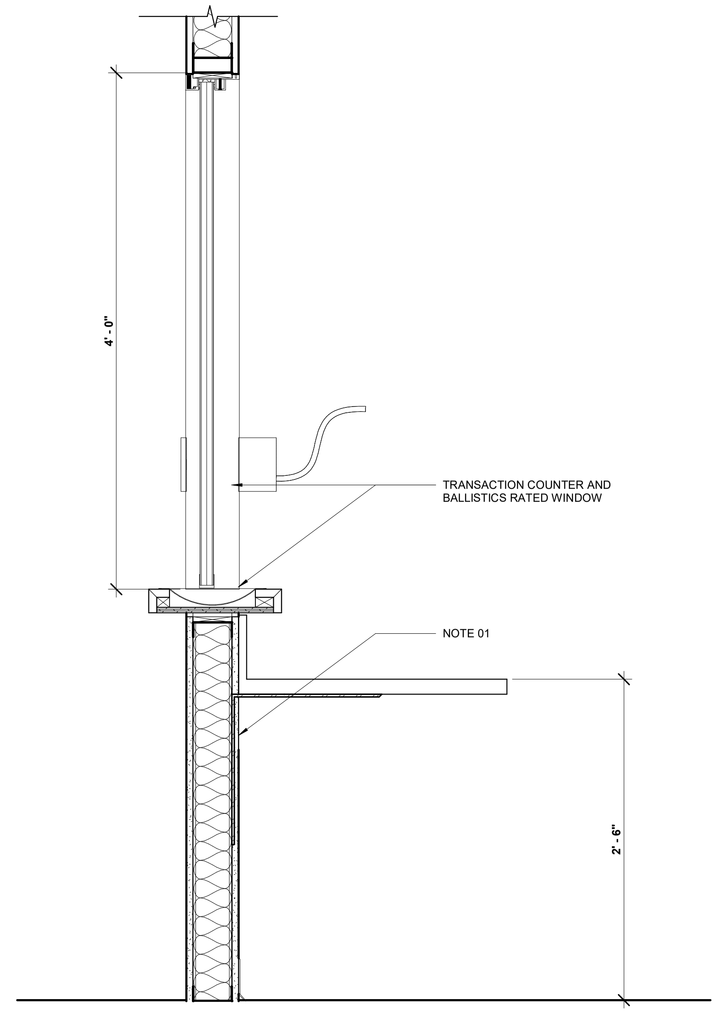
2 / A502 CASEWORK SECTION - RECEPTION COUNTER
SCALE: 1 1/2" = 1'-0"



4 / A502 CASEWORK SECTION - TYPICAL VANITY DETAIL
SCALE: 1 1/2" = 1'-0"



1 / A502 Transaction Casework
SCALE: 1 1/2" = 1'-0"



3 / A502 CASEWORK SECTION - RECEPTION COUNTER
SCALE: 1 1/2" = 1'-0"

STATE OF SOUTH CAROLINA
CAPLEA COE ARCHITECTS, INC.
CHARLESTON
B-78022
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
JOSHUA MICHAEL CAPLEA
Charleston, SC
No. 6889
REGISTERED ARCHITECT

SEALS

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NOTES:

01 PROVIDE SHELF BRACKET AT CENTER OF KNEE SPACE WHICH HAS A SPAN OVER 3'-0".

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
072100.C	UNFACED R-19 BATT INSULATION
092216.C	3-5/8 IN. METAL STUD
092216.O	METAL CHANNEL
092900.B	5/8 IN. GWB
093000.C	CERAMIC TILE BASE
123213.I	BASE CABINET
123213.J	WALL CABINET
123661.A	SIMULATED STONE COUNTERTOPS
265100.A	INTERIOR LIGHTING - SEE 'E' SHEETS

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

CASEWORK SECTIONS

SHEET NAME

PROJECT NUMBER 23019
DRAWN BY BTN
CHECKED BY JMC
DATE 07/20/2026
SCALE 1 1/2" = 1'-0"

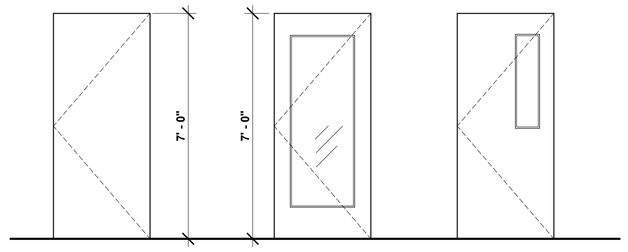
A502

SHEET 16 OF
7/30/2026 2:37:57 PM

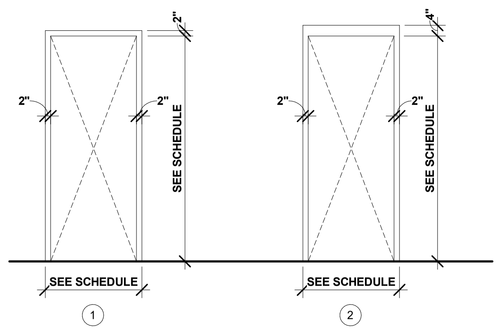
DOOR SCHEDULE

DOOR NUMBER	TYPE	ROOM	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FIRE RATING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME JAMB	FRAME HEAD	COMMENTS
103	A	103	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
104	C	103	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
105	A	105	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
106	A	104	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
107	A	107	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
108	A	104	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
109	C	104	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
110	A	109	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
111	A	104	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	-	-	PAINT	-	-	NOTE 02
112	C	104	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
113	A	113	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
114	C	104	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
115	C	104	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
116	-	116	3' - 0"	7' - 0"	0' - 2"	ALUM	PREFIN	None (Not Rated)	-	-	-	-	-	NOTE 03
118	C	118	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
119	A	119	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
120	B	120	3' - 0"	7' - 0"	0' - 1 3/4"	WD	STAIN	None (Not Rated)	1	HM	PAINT	J1	H1	
121	C	121	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PAINT	None (Not Rated)	1	HM	PAINT	J1	H1	
122	A	121	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PAINT	None (Not Rated)	1	HM	PAINT	J1	H1	
123A	C	121	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PAINT	None (Not Rated)	1	HM	PAINT	J2	H2	
123B	-	123	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	None (Not Rated)	-	HM	PAINT	-	-	NOTE 01
123C	A	123	4' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINT	None (Not Rated)	2	HM	PAINT	J3	H3	
124	A	123	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PAINT	None (Not Rated)	1	HM	PAINT	J1	H1	
125	A	123	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PAINT	None (Not Rated)	1	HM	PAINT	J1	H1	
126	C	123	3' - 0"	7' - 0"	0' - 1 3/4"	WD	PAINT	None (Not Rated)	1	HM	PAINT	J1	H1	

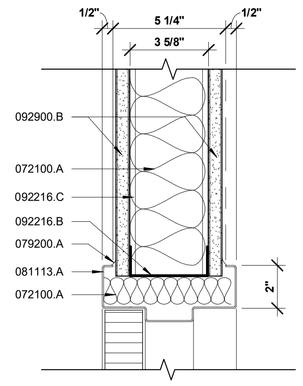
DOOR TYPES



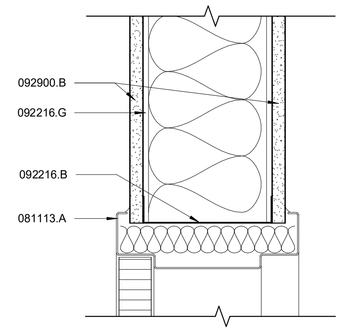
FRAME TYPES



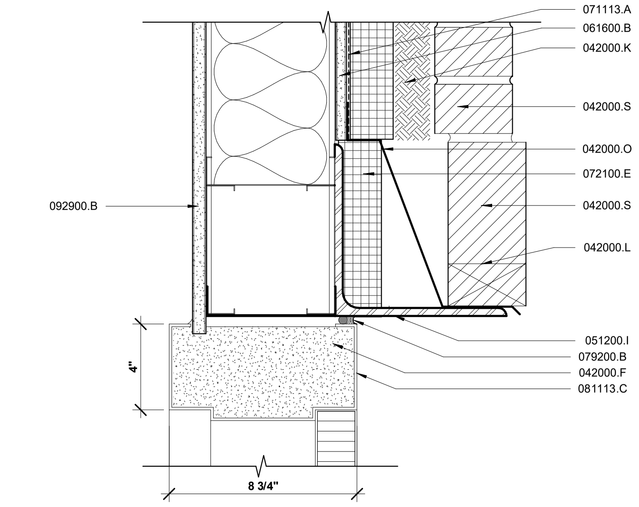
DOOR HEAD, JAMB, AND SILL DETAILS



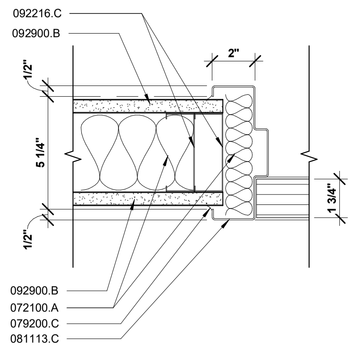
B5 A601 H1 HEAD DETAIL
SCALE: 3" = 1'-0"



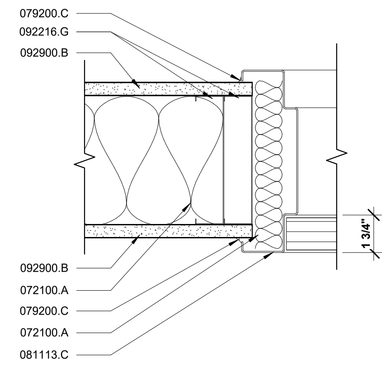
B6 A601 H2 HEAD DETAIL
SCALE: 3" = 1'-0"



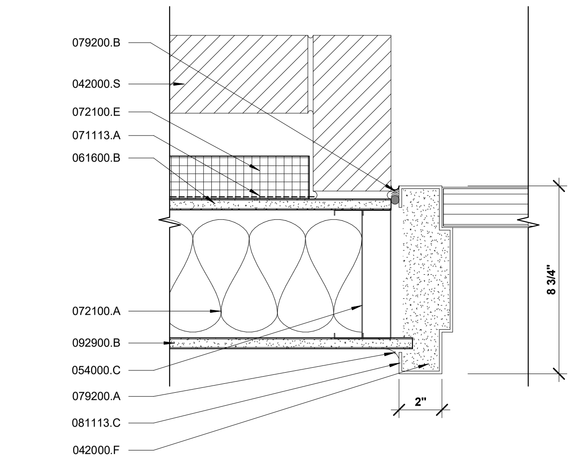
B7 A601 H3 HEAD DETAIL
SCALE: 3" = 1'-0"



C5 A601 J1 JAMB DETAIL
SCALE: 3" = 1'-0"

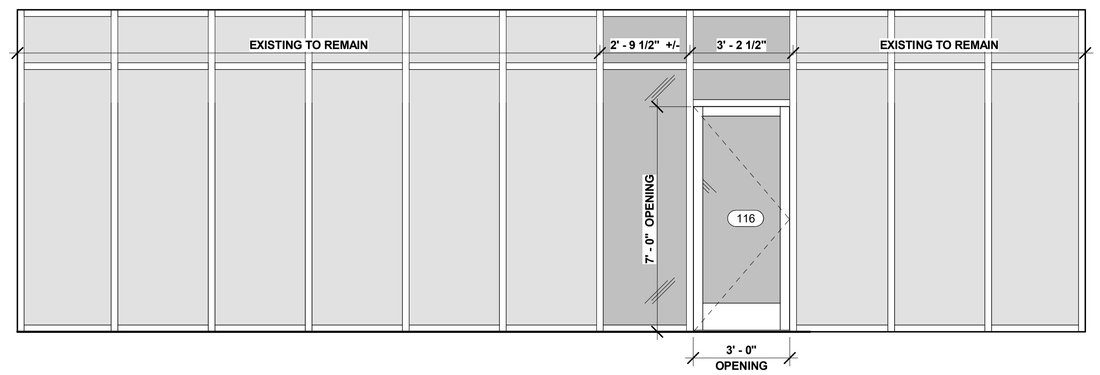


C6 A601 J2 JAMB DETAIL
SCALE: 3" = 1'-0"



C7 A601 J3 JAMB DETAIL
SCALE: 3" = 1'-0"

STOREFRONT TYPES



E5 A601 STOREFRONT ELEVATION 1
SCALE: 3/8" = 1'-0"

SEALS

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NOTES:

01 EXISTING DOOR AND FRAME TO REMAIN. DOOR TO RECEIVE NEW HARDWARE AND PAINT.
02 INSTALL NEW DOOR ON EXISTING FRAME.
03 INSTALL NEW STOREFRONT DOOR ON EXISTING STOREFRONT.

KEY VALUE	KEYNOTE TEXT
042000.F	GROUT
042000.K	MORTAR MESH MATERIAL
042000.L	MASONRY WEEP
042000.O	THROUGH WALL FLASHING
042000.S	BRICK VENEER
051200.I	GALVANIZED STEEL ANGLE
054000.C	6 IN. COLD FORMED METAL FRAMING
061600.B	GYPSUM SHEATHING
071113.A	BITUMINOUS DAMPPROOFING
072100.A	THERMAL INSULATION
072100.E	2 IN. RIGID INSULATION
079200.A	JOINT SEALANTS
079200.B	ELASTOMERIC JOINT SEALANT W PRIMER & BACKER ROD
079200.C	LATEX JOINT SEALANT
081113.A	HOLLOW METAL DOORS AND FRAMES
081113.C	STEEL FRAME
092216.B	STEEL FRAMING
092216.C	3-5/8 IN. METAL STUD
092216.G	6 IN. METAL STUD
092900.B	5/8 IN. GWB

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONERS OFFICE

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

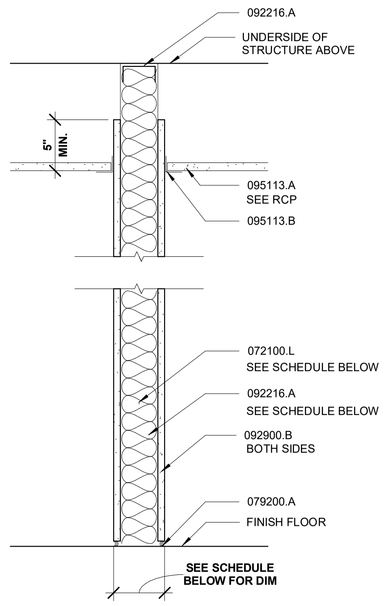
DOOR AND FINISH SCHEDULES

SHEET NAME

PROJECT NUMBER 23019
DRAWN BY BTN
CHECKED BY JMC
DATE 07/20/2026
SCALE As indicated

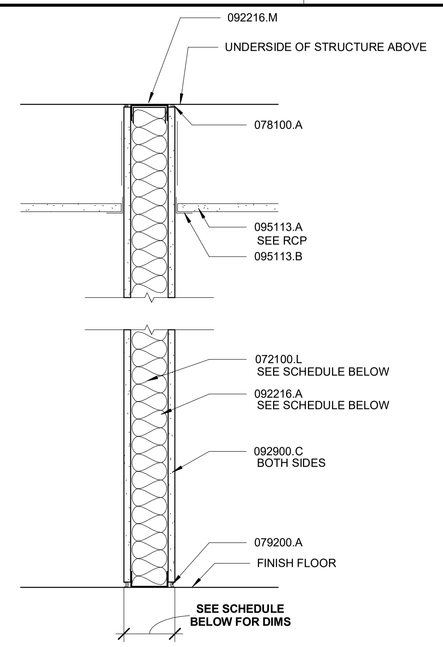
A601

SHEET 17 OF 59
7/30/2026 2:37:57 PM



TYPE	STUD SIZE	PART. THICK.	INSUL/ STC	KEYED NOTES
A	3 5/8"	4 7/8"	3"	

B1 A700 NON RATED - GYP 6" ABOVE CEILING
SCALE: 1 1/2" = 1'-0"

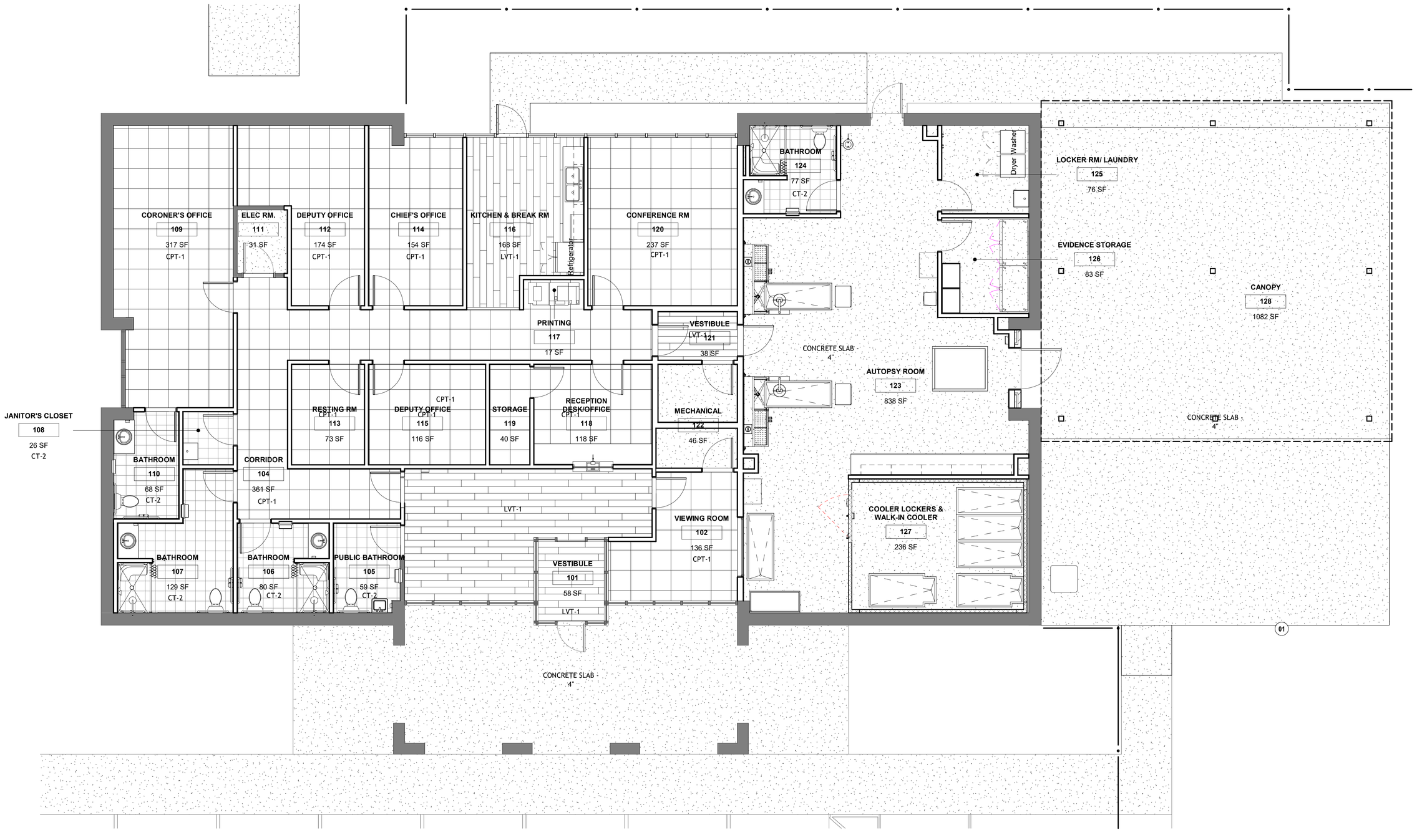


TYPE	STUD SIZE	PART. THICK.	INSUL/ STC	KEYED NOTES
B	3 5/8"	4 7/8"	3" / 45-49	NOTE 01

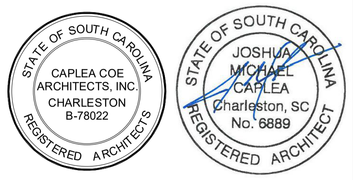
B3 A700 NON RATED SMOKE TIGHT - FULL HEIGHT GYP
SCALE: 1 1/2" = 1'-0"

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL				CEILING	CEILING HEIGHT	COMMENTS
				NORTH	SOUTH	EAST	WEST			
101	VESTIBULE	LVT-1	N/A	N/A	N/A	N/A	N/A	ACT	10' - 0"	
102	VIEWING ROOM	LVT-1	4" VINYLE BASE	N/A	N/A	N/A	N/A	ACT	10' - 0"	
103	LOBBY	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
104	CORRIDOR	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
105	PUBLIC BATHROOM	CERAMIC TILE	CERAMIC TILE	PAINT	PAINT	PAINT	PAINT	GWB	9' - 0"	
106	BATHROOM	CERAMIC TILE	CERAMIC TILE	PAINT	PAINT	PAINT	PAINT	GWB	9' - 0"	
107	BATHROOM	CERAMIC TILE	CERAMIC TILE	PAINT	PAINT	PAINT	PAINT	GWB	9' - 0"	
108	JANITOR'S CLOSET	CERAMIC TILE	CERAMIC TILE	PAINT	PAINT	PAINT	PAINT	ACT	9' - 0"	
109	CORONER'S OFFICE	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
110	BATHROOM	CERAMIC TILE	CERAMIC TILE	PAINT	PAINT	PAINT	PAINT	GWB	9' - 0"	
111	ELEC RM.	SEALED CONCRETE	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	-	10' - 0"	NO CEILING
112	DEPUTY OFFICE	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
113	RESTING RM	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
114	CHIEF'S OFFICE	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
115	DEPUTY OFFICE	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
116	KITCHEN & BREAK RM	LVT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
117	PRINTING	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	9' - 0"	
118	RECEPTION DESK/OFFICE	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
119	STORAGE	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	9' - 0"	
120	CONFERENCE RM	CPT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
121	VESTIBULE	LVT-1	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	ACT	10' - 0"	
122	MECHANICAL	SEALED CONCRETE	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	-	10' - 0"	NO CEILING
123	AUTOPSY ROOM	RESINOUS MATRIX TERRAZZO FLOORING	RESINOUS MATRIX TERRAZZO BASE	FRP	FRP	FRP	FRP	GWB	10' - 0"	
124	BATHROOM	CERAMIC TILE	CERAMIC TILE	FRP	FRP	FRP	FRP	GWB	9' - 0"	
125	LOCKER RM/ LAUNDRY	RESINOUS MATRIX TERRAZZO FLOORING	RESINOUS MATRIX TERRAZZO BASE	FRP	FRP	FRP	FRP	ACT	10' - 0"	
126	EVIDENCE STORAGE	LVT-1	4" VINYLE BASE	FRP	FRP	FRP	FRP	ACT	10' - 0"	
127	COOLER LOCKERS & WALK-IN COOLER	RESINOUS MATRIX TERRAZZO FLOORING	N/A	N/A	N/A	N/A	N/A	N/A	10' - 0"	
129	I.T. RM	SEALED CONCRETE	4" VINYLE BASE	PAINT	PAINT	PAINT	PAINT	-		NO CEILING



F1 A700 FIRST FLOOR FINISH PLAN
SCALE: 3/16" = 1'-0"



SEALS

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NOTES:

01 WALL TYPE IS NOT A UL-RATED ASSEMBLY BUT MUST BE SMOKE TIGHT AND SEALED TIGHT TO THE ROOF DECK. ALL PENETRATIONS MUST BE SEALED TO NOT ALLOW SMOKE TO PENETRATE ASSEMBLY.

GENERAL NOTES:

01 ALL FLOOR MATERIALS MUST HAVE TRANSITION STRIPS. SEE SHEET A701

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

FIRST FLOOR FINISH PLAN & SCHEDULES

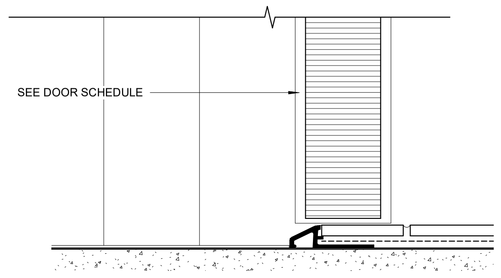
SHEET NAME

PROJECT NUMBER	23019
DRAWN BY	BTN
CHECKED BY	JMC
DATE	07/20/2026
SCALE	As indicated

A700

TRANSITION DETAILS

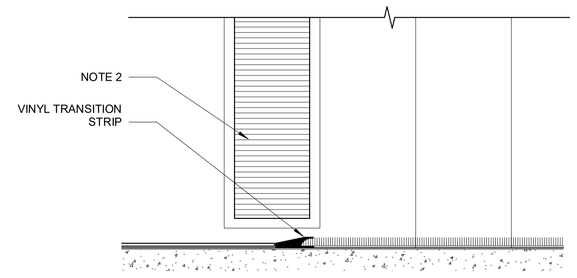
LVT / TILE



S4

B1 / A701 S4 - LVT/TILE TRANSITION
SCALE: 6" = 1'-0"

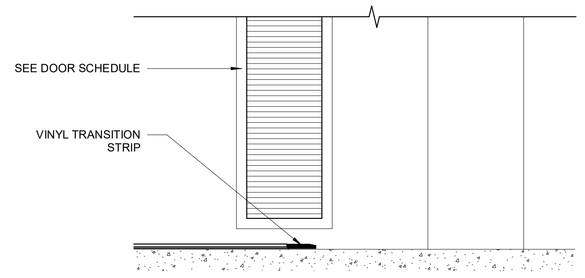
LVT / CARPET



S5

B3 / A701 S5 - LVT/CARPET TRANSITION
SCALE: 6" = 1'-0"

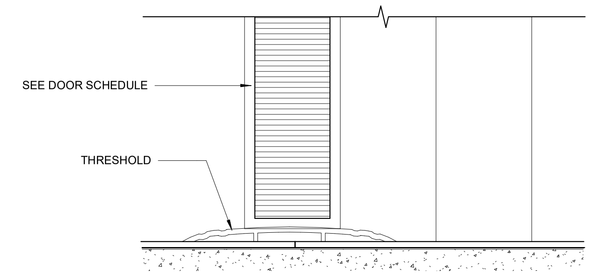
LVT / CONC.



S6

B5 / A701 S6 - LVT/CONCRETE TRANSITION
SCALE: 6" = 1'-0"

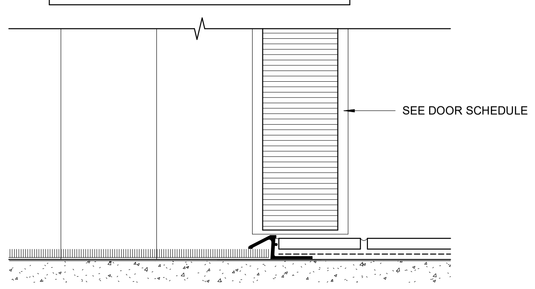
CONC. / CONC.



S11

C7 / A701 S11 THRESHOLD TRANSITION DETAIL
SCALE: 6" = 1'-0"

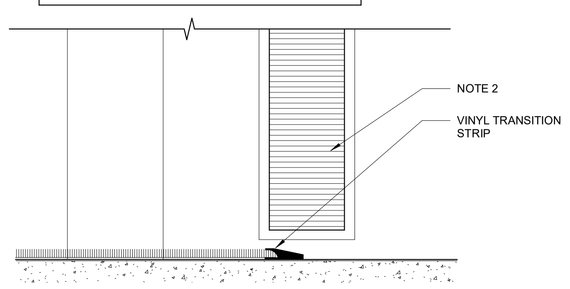
CARPET TILE / TILE



S3

C1 / A701 S3 - TILE/CARPET TILE TRANSITION
SCALE: 6" = 1'-0"

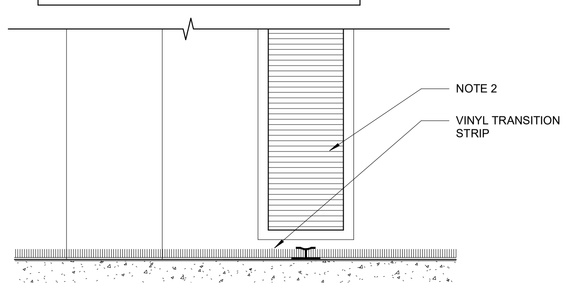
CARPET / CONCRETE



S12

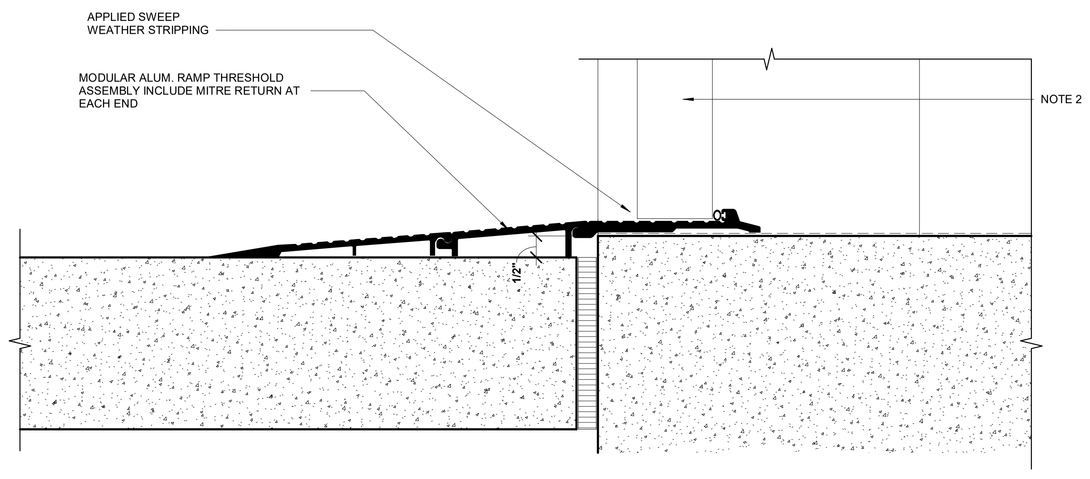
C3 / A701 S12 - CARPET/CONCRETE TRANSITION
SCALE: 6" = 1'-0"

CARPET / CARPET



S13

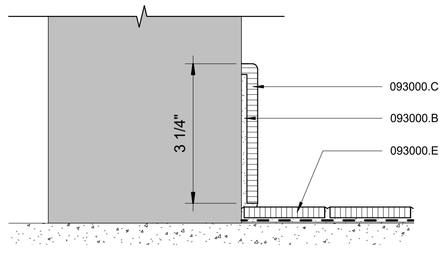
C5 / A701 S13 - CARPET/CARPET TRANSITION
SCALE: 6" = 1'-0"



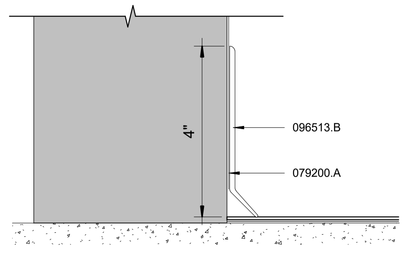
S9

E1 / A701 S9 - EXTERIOR CONCRETE/CONCRETE TRANSITION
SCALE: 6" = 1'-0"

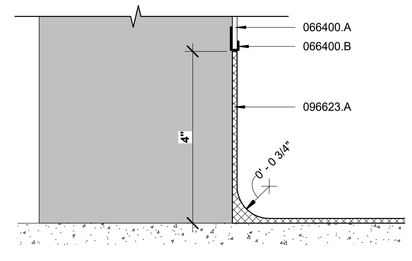
FLOOR BASE DETAILS



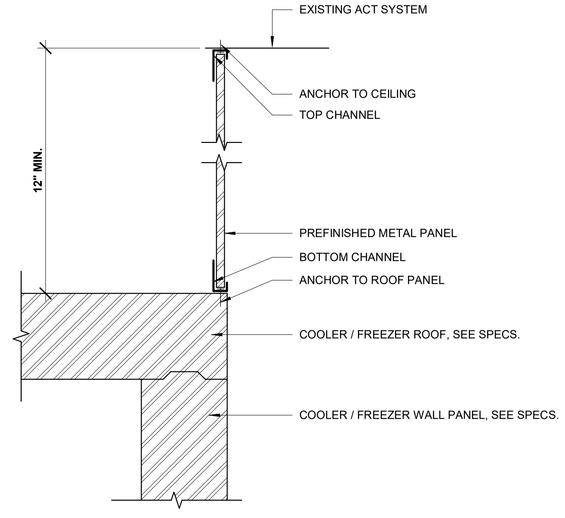
F1 / A701 TYPICAL BULL NOSE TILE BASE
SCALE: 6" = 1'-0"



F3 / A701 TYPICAL RUBBER BASE DETAIL
SCALE: 6" = 1'-0"



F5 / A701 TYPICAL RESINOUS MATRIX TERRAZZO FLOORING AND BASE DETAIL
SCALE: 6" = 1'-0"



F7 / A701 COOLER / FREEZER CEILING CONNECTION
SCALE: 3" = 1'-0"

STATE OF SOUTH CAROLINA
CAPLEA COE ARCHITECTS, INC.
CHARLESTON
B-78022
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
JOSHUA MICHAEL CAPLEA
Charleston, SC
No. 6889
REGISTERED ARCHITECT

SEALS

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NOTES:

KEY VALUE	KEYNOTE TEXT
066400.A	FIBERGLASS REINFORCED PANELING
066400.B	FIBERGLASS REINFORCED PANELING EDGE TRIM MOULDING
079200.A	JOINT SEALANTS
093000.B	CERAMIC TILE - THINSET
093000.C	CERAMIC TILE BASE
093000.E	CERAMIC TILE
096513.B	4 IN. RESILIENT BASE
096623.A	RESINOUS MATRIX TERRAZZO FLOORING

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONERS OFFICE

STATE PROJECT NO: J16-N015-CB-C.1
DPH PROJECT NO: 1006208

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

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1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

FINISH DETAILS

SHEET NAME

PROJECT NUMBER: 23019
DRAWN BY: BTN
CHECKED BY: JMC
DATE: 07/20/2026
SCALE: As indicated

A701

SHEET 19 OF
7/30/2026 2:37:58 PM

MECHANICAL SYMBOLS

EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
AHU-X	AIR HANDLER UNIT DESIGNATION
DOAU-X	DEDICATED OUTSIDE AIR UNIT DESIGNATION
EF-X	EXHAUST FAN DESIGNATION
FCU-X	FAN COIL UNIT DESIGNATION
FF-X	FINAL FILTER DESIGNATION
PF-X	PRE-FILTER DESIGNATION
RF-X	AIR HANDLER RETURN FAN DESIGNATION
SF-X	UNIT SUPPLY FAN DESIGNATION
SSCU-X	SPLIT SYSTEM CONDENSING UNIT DESIGNATION
SAV-X	SUPPLY AIR VALVE DESIGNATION
VAV-X	VARIABLE AIR VOLUME BOX DESIGNATION

PIPING SYMBOLS

SYMBOL	DESCRIPTION
——CD——	CONDENSATE DRAIN
——RL——	REFRIGERANT LIQUID
——RS——	REFRIGERANT SUCTION

FIRE RATED PARTITION LINETYPES

SYMBOL	DESCRIPTION
- - - - - - - - - - - - -	PARTITION THAT LIMITS SMOKE TRANSMISSION

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
	AIR FLOW
100 CFM	TRANSFER AIR FLOW (CFM INDICATED)
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
VD	VOLUME DAMPER
BDD	BACK DRAFT DAMPER
SD	SMOKE DAMPER
	FLEXIBLE CONNECTION
	HORIZONTAL ACCESS DOOR
	VERTICAL ACCESS DOOR
	ELBOW W/ DOUBLE THICKNESS TURNING VANES
	RECTANGULAR BRANCH TAKE-OFF
	BELL MOUTH BRANCH TAKE-OFF
	ROUND BRANCH TAKE-OFF
	ROUND DUCT DROP OFF BOTTOM
	DUCT TRANSITION
	SQUARE TO ROUND TRANSITION
UP/DN	DUCTWORK CHANGE IN ELEVATION (UP OR DOWN)
	SUPPLY / OUTSIDE AIR DUCT RISER
	RETURN AIR DUCT RISER
	EXHAUST / RELIEF AIR DUCT RISER
	ROUND DUCT RISER
MAINTENANCE ACCESS AREA	TERMINAL UNIT WITH REHEAT COIL
X AIR DEVICE TYPE XX CFM	AIR DEVICE IDENTIFIER

MECHANICAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

#	NUMBER, POUND
$	DOLLAR
%	PERCENT
&	AND
+	PLUS
-	MINUS
/	DIVIDE BY, PER
<	LESS THAN
=	EQUALS, EQUAL TO
>	GREATER THAN
x	MULTIPLY BY, BY
x"	INCHES, INCH
x'	FEET, FOOT
±	PLUS OR MINUS
≤	LESS THAN OR EQUAL TO
≥	GREATER THAN OR EQUAL TO
@	AT
A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
ACV	AUTOMATIC CONTROL VALVE
AD	ACCESS DOOR, AREA DRAIN
AF	ANTIFREEZE
AFF	ABOVE FINISHED FLOOR
AR	ARGON GAS
ATC	AUTOMATIC TEMPERATURE CONTROL
BAS	BUILDING AUTOMATION SYSTEM
BBD	BOILER BLOWDOWN
BCWR	BEARING COOLING WATER RETURN
BCWS	BEARING COOLING WATER SUPPLY
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BO	BLOW OFF
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BALANCING VALVE
CA	CONTROL AIR
CBD	CONTINUOUS BLOWDOWN
CC	CAMPUS CONDENSATE
CCMS	CENTRAL CONTROL AND MONITORING SYSTEM
CD	CONDENSATE DRAIN
CF	CHEMICAL FEED
CFM	CUBIC FEET PER MINUTE
CHEL	CHELANT
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CHX	CHILLED WATER HEAT EXCHANGER
CO	CLEANOUT
CO2	CARBON DIOXIDE
CS	CLEAN STEAM
CT	COMBUSTION TURBINE
CW	COLD WATER, DOMESTIC CITY WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
°C	DEGREE(S) CELSIUS
D	DEEP, DRAIN WATER
DB	DECIBEL, DRY BULB
DDC	DIRECT DIGITAL CONTROL
DESIG	DESIGNATION
DHR	DISTRIBUTION HEATING WATER RETURN
DHS	DISTRIBUTION HEATING WATER SUPPLY
DHWR	DOMESTIC HOT WATER RETURN
DHWS	DOMESTIC HOT WATER SUPPLY
DIA, Ø	DIAMETER
DIR	DEIONIZED WATER RETURN
DIS	DEIONIZED WATER SUPPLY
DL	DOOR LOUVER
DN	DOWN
DSP	DRY SPRINKLER PIPE
DTR	DUAL TEMPERATURE RETURN
DTS	DUAL TEMPERATURE SUPPLY
DW	DISTILLED WATER
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ED	EQUIPMENT DRAIN
EJ	EXPANSION JOINT
ELEV	ELEVATION
EMS	ENERGY MANAGEMENT SYSTEM
EQ	EQUIPMENT, EQUALIZING
ESP	EXTERNAL STATIC PRESSURE
ETC	ETCETERA
EVAC	GAS EVACUATION
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
#2FOR	NUMBER 2 FUEL OIL RETURN
#2FOS	NUMBER 2 FUEL OIL SUPPLY
#6FOR	NUMBER 6 FUEL OIL RETURN
#6FOS	NUMBER 6 FUEL OIL SUPPLY
F	FIRE LINE
F&T	FLOAT AND THERMOSTATIC TRAP
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER, FOUNDATION DRAIN
FDR	FLOOR DRAIN
FDV	FIRE DEPARTMENT VALVE
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FIN/FT	FINS PER FOOT
FIN/INCH	FINS PER INCH
FM	FLOWMETER
FMF	FLOWMETER FITTING
FO	FUEL OIL
FOF	FUEL OIL FILL
FOO	FUEL OIL OVERFLOW
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOSUCT	FUEL OIL SUCTION
FOT	FUEL OIL TRANSFER
FOTP	FUEL OIL TRANSFER PUMP
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FOOT, FEET
FW	FEED WATER
FWR	FEED WATER RECIRCULATION
FWS	FEED WATER SUCTION
°F	DEGREE(S) FAHRENHEIT
G	NATURAL GAS
GAL	GALLON, GALLONS
GEN	GENERATOR
GHR	GLYCOL HEATING RETURN
GHS	GLYCOL HEATING SUPPLY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	AUTOMOTIVE LUBRICATION PIPING
H	HIGH
HB	HOSE BIB
HED	HOSE END DRAIN VALVE
HP	HORSEPOWER
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HEATING WATER RETURN
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HRSG	HEAT RECOVERY STEAM GENERATOR
HS	HEATING WATER SUPPLY
HT	HEIGHT
HTHR	HIGH TEMPERATURE HEATING WATER RETURN
HTHS	HIGH TEMPERATURE HEATING WATER SUPPLY
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
HZ	HERTZ
IA	INSTRUMENT AIR
ICW	INDUSTRIAL COLD WATER
IHR	INDUSTRIAL HOT WATER RECIRCULATION
IHW	INDUSTRIAL HOT WATER
IN	INCH, INCHES
INV EL	INVERT ELEVATION
KW	KILOWATTS
L	LONG, LENGTH
LA	LABORATORY AIR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LN	LIQUID NITROGEN
LP	LIQUID PROPANE
LPG	LIQUID PETROLEUM GAS
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LV	LABORATORY VENT, LABORATORY VACUUM
LW	LABORATORY WASTE
LWT	LEAVING WATER TEMPERATURE
MA	MEDICAL AIR
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCC	MOTOR CONTROL CENTER
MEQ	MECHANICAL EQUIPMENT
MH-#	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MOTOR OIL PIPING
MOD	MOTOR OPERATED DAMPER
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
MV	MEDICAL VACUUM
N	NITROGEN
NA, N/A	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NO	NORMALLY OPEN, NITROUS OXIDE
No	NUMBER
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NPW	NON-POTABLE WATER
O	OXYGEN
OA	OUTSIDE AIR
OD	OVERFLOW DRAIN
OED	OPEN ENDED DUCT
OF	OVERFLOW
OS&Y	OUTSIDE STEM AND YOKE
P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
PA	PLANT AIR
PC	PUMPED CONDENSATE
PCHR	PRIMARY CHILLED WATER RETURN
PCHS	PRIMARY CHILLED WATER SUPPLY
PCP	PUMP CONTROL PANEL
PCR	PUMPED CONDENSATE RECIRCULATION
PCWR	PROCESS COOLING WATER RETURN
PCWS	PROCESS COOLING WATER SUPPLY
PD	PRESSURE DROP, PUMP DISCHARGE
PG	PILOT GAS
PGR	PROCESS GLYCOL WATER RETURN
PGS	PROCESS GLYCOL WATER SUPPLY
PH	PHASE
PHR	PRIMARY HEATING RETURN
PHS	PRIMARY HEATING SUPPLY
PIV	POST INDICATING VALVE
PPH	POUNDS PER HOUR
PRV	PRESSURE REDUCING VALVE, PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PW	POTABLE WATER
RA	RETURN AIR, RELIEF AIR
RAF	RETURN AIR FAN
RD	REFRIGERANT DISCHARGE
RDR	ROOF DRAIN
RH	RELATIVE HUMIDITY
RHR	REHEAT WATER RETURN
RHS	REHEAT WATER SUPPLY
RI	REMOVE AND REINSTALL
RL	REFRIGERANT LIQUID
ROR	REVERSE OSMOSIS WATER RETURN
ROS	REVERSE OSMOSIS WATER SUPPLY
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RV	RELIEF VENT, REFRIGERANT VENT
RX	REMOVE EXISTING
SA	SUPPLY AIR, SHOCK ARRESTOR
SAN	SANITARY, SOIL, WASTE
SCHR	SECONDARY CHILLED WATER RETURN
SCHS	SECONDARY CHILLED WATER SUPPLY
SD	STORM DRAIN, SMOKE DETECTOR
SF	SQUARE FOOT
SHR	SECONDARY HEATING WATER RETURN
SHS	SECONDARY HEATING WATER SUPPLY
SL	SOUND LINING
SP	STATIC PRESSURE
SPR	SPRINKLER LINE
SQ FT	SQUARE FOOT
SS	STAINLESS STEEL
SSUL	SODIUM SULFITE
STDR	STORM DRAIN
SW	SOFT WATER
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TW	TREATED WATER
TWR	TEMPERED WATER RETURN
TWS	TEMPERED WATER SUPPLY
TYP	TYPICAL
ΔT	TEMPERATURE DIFFERENCE
UCD	UNDERCUT DOOR
UL	UNDERWRITERS LABORATORIES
V	VACUUM, VOLTS
VD	VOLUME DAMPER
VENT	VENTILATION
VFD	VARIABLE FREQUENCY DRIVE
VPD	VACUUM PUMP DISCHARGE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATTS, WIDE
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WH	WALL HYDRANT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

STATE OF SOUTH CAROLINA — RMF ENGINEERING INC. CHARLESTON, SC C-00831 — REGISTERED ENGINEERS

SOUTH CAROLINA PROFESSIONAL ENGINEER — 32947 — GREGORY TAYLOR HUDSON — 2026-07-20

SEALS

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NOTES:

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194 SEVEN FARMS DRIVE
SUITE G
CHARLESTON, SC 29492
P: 843-971-9639 F: 843-971-9641

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY
CORONER'S OFFICE

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NAME

PROJECT NUMBER	03240069.A0
DRAWN BY	LEL
CHECKED BY	GTH
DATE	07/20/2026
SCALE	As indicated

M001

7/20/2026 6:05:08 PM

MECHANICAL DEMOLITION NOTES

1. NOTIFY THE OWNER, IN WRITING, AT LEAST TEN (10) DAYS IN ADVANCE OF ALL REQUIRED UTILITY OR SYSTEM SHUTDOWNS. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWN SHALL BE PERFORMED BETWEEN THE HOURS OF SIX (6) P.M. AND SIX (6) A.M. OR AS DIRECTED OTHERWISE BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUTDOWN ALL SERVICES SHALL BE RESTORED SO THAT NORMAL USE OF THE UTILITIES AND SYSTEMS CAN CONTINUE.
2. ALL WORK SHALL BE PERFORMED IN A SEQUENCE AND DURING HOURS TO MINIMIZE DISRUPTION TO THE BUILDING WHICH WILL REMAIN OCCUPIED DURING CONSTRUCTION.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE JURISDICTION'S APPLICABLE CODES AND THE LOCAL FIRE MARSHAL'S REQUIREMENTS.
4. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE ARCHITECT ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.
5. ALL EXISTING PIPING, EQUIPMENT, DUCTWORK AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER OR ARE INDICATED TO REMAIN THE PROPERTY OF THE OWNER, SHALL BE DELIVERED TO THE OWNER ON THE PREMISES BY THE CONTRACTOR. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
6. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF DUCTWORK, PIPING, EQUIPMENT AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL DUCTWORK, PIPING, EQUIPMENT AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.
7. EXISTING DUCT, PIPE AND EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.
8. EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC. EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE SHALL BE CAPPED, PLUGGED, OR OTHERWISE SEALED. NO EXISTING PIPING SHALL BE LEFT OPEN ENDED.
9. EXISTING DUCTWORK INDICATED TO BE DISCONNECTED AND REMOVED SHALL INCLUDE ALL RELATED AIR DEVICES, HANGERS, SUPPORTS, ETC., UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. EXISTING DUCTWORK WHERE INDICATED TO BE CAPPED OR REQUIRED TO REMAIN IN SERVICE SHALL BE CAPPED WITH 18 GAUGE SHEET METAL. SECURE CAP WITH SHEET METAL SCREWS AND SEAL PERIMETER OF OPENING AIRTIGHT WITH DUCT SEALER. NO EXISTING DUCTWORK SHALL BE LEFT OPEN FOR ANY EXTENDED PERIOD OF TIME. CAP EXISTING DUCTWORK IMMEDIATELY AS REQUIRED OR DIRECTED BY THE ARCHITECT.
10. EXISTING MECHANICAL EQUIPMENT, PIPING, DUCTWORK AND MATERIALS THAT SERVE OTHER PORTIONS OF THE BUILDING AND ARE AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE RE-INSTALLED OR SUPPORTED AS REQUIRED FOR NORMAL OPERATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.
11. PATCH ALL DISTURBED SURFACES, INCLUDING WALLS, CEILINGS, ROOF, FIREPROOFING, AND FLOOR. PATCHING SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURE, MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER/ENGINEER AND AT NO ADDITIONAL CONTRACT COST.
12. IN GENERAL, ALL PIPING, EQUIPMENT, DUCTWORK AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL PIPING, CONDUITS, EQUIPMENT, DUCTWORK AND MATERIALS SHOWN "HEAVY AND DASHED" IS EXISTING AND SHALL BE DEMOLISHED.
13. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES/SUBCONTRACTORS INCLUDING BUT NOT LIMITED TO AUTOMATIC TEMPERATURE CONTROLS, ELECTRICAL AND GENERAL TRADES.
14. PROTECT ALL EXISTING LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IN WRITING WHEN SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
15. ALL PENETRATIONS IN RATED PARTITIONS MUST BE SEALED WITH AN APPROVED UL LISTED FIRESTOP MATERIAL AFTER SERVICES ARE RUN THROUGH. ALL PENETRATIONS THROUGH EXTERIOR WALLS ABOVE AND BELOW GRADE OR SLAB ON GRADE MUST BE WATERPROOFED.
16. EXISTING EQUIPMENT WHERE INDICATED TO BE REMOVED SHALL BE UNFASTENED AT THE SUPPORTS OR ATTACHMENTS AND THEN THE SUPPORTS OR ATTACHMENTS SHALL BE REMOVED FROM THE BUILDING.
17. DO NOT USE CUTTING TORCHES UNTIL THE WORK AREA IS CLEARED OF FLAMMABLE MATERIALS AT CONCEAL SPACES, SUCH AS DUCT AND PIPE INTERIORS. VERIFY CONDITIONS AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH AND PORTABLE
18. NOTIFY UTILITY COMPANIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO DEMOLITION. VERIFY THAT THE UTILITIES HAVE BEEN DISCONNECTED, VALVED, CAPPED, AND MADE SAFE PRIOR TO DEMOLITION.
19. DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND PROPERLY DISPOSE OF CHEMICALS, LIQUIDS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS.

MECHANICAL NEW WORK NOTES

1. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND BUILDING DIMENSIONS PRIOR TO WORK. ANY VARIATIONS, DISCREPANCIES, OR FIELD ALTERATIONS TO THESE DESIGN DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT ATTENTION PRIOR TO WORK. IF CONTRACTOR COMMENCES WORK WITHOUT NOTIFYING ARCHITECT OF VARIATIONS, DISCREPANCIES, OR FIELD ALTERATIONS, THAT SHALL CONSTITUTE WAIVER TO ANY CLAIM BY CONTRACTOR FOR ADDITIONAL EXPENSES NECESSARY TO PERFORM WORK ASSOCIATED WITH THOSE CONDITIONS.
2. AS A MINIMUM, ALL WORK SHALL CONFORM TO THE APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL CODES AND ORDINANCES ADOPTED BY THE JURISDICTION OF THE WORK. WHERE MORE STRINGENT CODES ARE ADOPTED, THEY SHALL GOVERN THE WORK.
3. CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCE, OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS, AND ALL OTHER INFORMATION NECESSARY FOR A PROPER AND WELL-COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, CONFER WITH EACH CONTRACTOR EXACT LOCATION OF ALL ITEMS.
4. CONTRACTOR SHALL OBTAIN FROM OWNER ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT INCLUDING ROUGHING DIAGRAMS, INSTALLATION INSTRUCTIONS, ELECTRICAL SCHEMATICS, TEMPLATES, LAYOUTS AND DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER, WELL-COORDINATED INSTALLATION. PRIOR TO ROUGH-IN SERVICES, CONFER WITH OWNER EXACT LOCATION OF ALL ITEMS.
5. DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
6. COORDINATE FINAL EQUIPMENT/FIXTURE LOCATIONS WITH THE GENERAL CONTRACTOR. THE LOCATION AS INDICATED ON THE DRAWING IS APPROXIMATE. INSTALL ALL MECHANICAL EQUIPMENT SUCH THAT MANUFACTURER'S MAINTENANCE AREA IS CLEAR.
7. PRIOR TO PREPARING THE BID, IT IS RECOMMENDED THAT THE CONTRACTOR AND SUBCONTRACTORS VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND MAKE ALL NECESSARY INVESTIGATIONS AS TO THE LOCATIONS OF UTILITIES AND ALL OTHER MATTERS WHICH CAN AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR AS A RESULT OF THEIR FAILURE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED.
8. PROVIDE AND INSTALL ALL NECESSARY HARDWARE, BRACKETS, BRACING, ANCHORING, INSERTS, BLOCKING, FURRING OR OTHER SUPPLEMENTARY ITEMS NEEDED FOR COMPLETE INSTALLATION OF EQUIPMENT, FIXTURES AND ACCESSORIES.
9. CONFIRM ALL ROUGH AND/OR FINISH DIMENSIONS FOR ACCURATE FITTING OF MECHANICAL EQUIPMENT, FIXTURES, PIPING, ETC. BEFORE FABRICATION AND INSTALLATION.
10. ALL WALL MOUNTED MECHANICAL DEVICES OR CONTROLS SHALL BE INSTALLED IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, FIXTURES, FURNISHINGS, OR EQUIPMENT. ITEMS INTENDED FOR WALL MOUNTING SHALL NOT BE INSTALLED ON, THROUGH OR INTO ANY OTHER EQUIPMENT UNLESS SPECIFICALLY CALLED FOR. VERIFY MOUNTING HEIGHTS WITH ARCHITECT AND ADA REQUIREMENTS.
11. THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE SAME, REGARDLESS OF WHETHER OR NOT EACH AND EVERY NECESSARY WORK OR ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWING AND/OR NOTES.
12. DRAWING PLANS, SCHEMATICS AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCTWORK AND PIPING SYSTEMS. INDICATED LOCATIONS AND ARRANGEMENTS ARE USED TO SIZE DUCTWORK AND PIPE AND CALCULATE FRICTION LOSS, EXPANSION, AND OTHER DESIGN CONSIDERATIONS. INSTALL DUCTWORK AND PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON COORDINATION DRAWINGS.
13. CONTRACTOR SHALL FURNISH ALL INFORMATION AND DOCUMENTATION TO SECURE ALL REQUIRED PERMITS AND SHALL COORDINATE THIS DATA WITH THE CONSTRUCTION DOCUMENTS WHERE REQUIRED.
14. WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIALS. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNER'S APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW UNLESS INDICATED OTHERWISE. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED OR REPLACED. WHERE ITEM CANNOT BE REPAIRED TO A "NEW CONDITION", OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEM SHALL BE REPLACED.
15. UNLESS OTHERWISE INDICATED, AIR TERMINAL UNITS AND ASSOCIATED CONTROLS SHALL BE INSTALLED AT A HEIGHT NO GREATER THAN 3 FEET ABOVE A CEILING TO ALLOW MAINTENANCE ACCESSIBILITY.
16. AIR TERMINAL UNITS SHALL BE PROVIDED WITH A MINIMUM OF TWO (2) DUCT DIAMETERS OF STRAIGHT DUCT RUN AT THE INLET. INLET DUCT SHALL BE EQUAL OR LARGER THAN THE TERMINAL UNIT INLET SIZE.
17. PROVIDE, AT EACH FAN COIL UNIT, A WATER LEVEL PROTECTION DEVICE THAT CONFORMS TO UL508 THAT WILL SHUT-OFF THE FCU IF THE PRIMARY DRAIN IS BLOCKED. THE DEVICE SHALL BE INSTALLED IN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN IN ACCORDANCE WITH THE APPLICABLE MECHANICAL CODE.
18. PROVIDE A FLEXIBLE DUCT FLEXIBLE CONNECTION AT BOTH THE INLET AND OUTLET DUCT FAN CONNECTION.
19. FABRICATE ALL DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS. ALL DUCTWORK SHALL BE A MINIMUM OF 26 GAUGE.
20. DUCTWORK SIZES SHOWN ON PLANS ARE AIR SIDE SIZES. WHERE DUCTS ARE SHOWN AS LINED, DIMENSIONS SHALL BE INCREASED TO REFLECT THAT THICKNESS OF THE LINING.
21. WHERE SHOWN ON THE DRAWINGS OR NOT, PROVIDE MANUAL VOLUME DAMPERS AT EACH DUCT BRANCH LEADING TO AN AIR DEVICE, UNLESS THERE IS ONLY ONE AIR DEVICE SERVED BY A TERMINAL UNIT. INSTALL DAMPERS AS FAR AS POSSIBLE AWAY FROM THE DIFFUSER.
22. PROVIDE ACCESS DOORS IN DUCTWORK WHERE NECESSARY TO SERVICE FIRE DAMPERS & DEVICES WITHIN DUCTWORK.
23. UNLESS ABSOLUTELY NECESSARY, ALL MECHANICAL DEVICES, EQUIPMENT, DAMPERS, VALVES, ETC. THAT REQUIRE ACCESS SHALL NOT BE LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. WHERE UNAVOIDABLE, PROVIDE ACCESS DOORS IN INACCESSIBLE CEILINGS TO ACCESS DEVICES, EQUIPMENT, DAMPERS, VALVES, ETC.
24. VERIFY REFLECTED CEILING PLANS IN THE FIELD FOR EXACT LAYOUT LOCATION OF ALL CEILING AIR DEVICES. COORDINATE LOCATION WITH ALL OTHER TRADES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO INSTALLATION.
25. REFER TO AIR DEVICE SCHEDULE FOR INLET DUCT SIZES UNLESS OTHERWISE INDICATED.
26. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZE, LOCATION AND DETAILS OF EXTERIOR WALL LOUVERS.
27. SIZE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS BASED ON THE PROJECT SPECIFIC LAYOUT AND LENGTH OF REFRIGERANT PIPING.
28. RUN ALL PIPING CONCEALED ABOVE CEILING EXCEPT WHERE INDICATED.
29. WHERE NOT INDICATED, DRAIN ALL CONDENSATE DRAIN PANS WITH INSULATED, TRAPPED DRAIN PIPING TO NEAREST FLOOR DRAIN, JANITOR'S SINK, RAIN LEADER WITH OPEN END DRAIN, OR TO THE EXTERIOR AS INSTRUCTED BY THE ENGINEER.
30. INSTALL GRAVITY-DRAINED CONDENSATE PIPING FROM COOLING COILS AND EVAPORATORS WITH MINIMUM HORIZONTAL SLOPE IN THE DIRECTION OF FLOW OF 1/8 UNIT VERTICAL IN 12 UNITS HORIZONTAL (1-PERCENT SLOPE).
31. DO NOT ROUTE ANY WET MECHANICAL PIPING THROUGH ELECTRICAL, DATA/COMMUNICATION OR ELEVATOR EQUIPMENT ROOMS WITHOUT PRIOR APPROVAL FROM ARCHITECT.
32. INSTALL ALL DUCT SMOKE DETECTORS FURNISHED UNDER DIVISION 28 SPECIFICATIONS.
33. FOR CLARITY, SOME HVAC SENSORS AND DEVICES MAY BE SHOWN ON THE PIPING DRAWINGS. COORDINATE FINAL SENSOR AND DEVICE LOCATIONS WITH INTERIOR FINISH AND FURNITURE EQUIPMENT DRAWINGS PRIOR TO INSTALLATION. UNLESS OTHERWISE SPECIFICALLY NOTED, MOUNT SENSORS 48" AFF TO THE TOP OF THE DEVICE OR LEVEL WITH ADJACENT ELECTRICAL DEVICES. TYPICAL FOR ALL SENSORS.
34. CONTRACTOR SHALL CONDUCT A PRE-INSTALLATION MEETING AND WALK THROUGH WITH OWNER, ARCHITECT AND ENGINEER PRIOR TO ATC ROUGH-IN TO COORDINATE AND CONFIRM ALL DEVICE LOCATIONS.
35. DUCTWORK SHALL NOT RUN ALONG FULL HEIGHT PARTITIONS.
36. WHEN A SECTION OF DUCTWORK OR PIPING IS NOT LABELED FOR SIZE, THE LARGER SIZE INDICATED ON THE CONNECTED DUCT OR PIPE SHALL PREVAIL.
37. CONTRACTOR SHALL PROVIDE THE FOLLOWING SERVICES, AS APPLICABLE, ON ALL EXISTING EQUIPMENT INDICATED TO BE REUSED: 1) FILTER CHANGES, 2) BALANCING, 3) LUBRICATION. CONTRACTOR SHALL REPORT ANY EQUIPMENT DEFICIENCIES FOUND TO THE ARCHITECT AND/OR ENGINEER.
38. THE FIRE PROOFING OF THE BUILDING STRUCTURE IS NOT TO BE REMOVED FOR THE INSTALLATION OF HANGERS, SUPPORTS, DUCTWORK, ETC. IF FIRE PROOFING IS DAMAGED, IT SHALL BE REPAIRED AT THE EXPENSE OF THE TRADE.
39. MANY EQUIPMENT SCHEDULES DO NOT LIST QUANTITES. CONTRACTOR SHALL REFER TO ALL DRAWINGS AND PROVIDE THE REQUIRED QUANTITIES FOR ALL COMPONENTS.
40. CONTRACTOR SHALL ENSURE A RETURN AIR PATH IS AVAILABLE FROM ALL ROOMS AND SPACES BACK TO THE MAIN RETURN AIR DUCT INLETS. CONTRACTOR SHALL PROVIDE LINED TRANSFER DUCTS AT ALL FULL HEIGHT PARTITIONS. TRANSFER DUCTS SHALL BE SIZED FOR A MAXIMUM VELOCITY OF 500 FPM.
41. PROVIDE INSULATED BACKPLATE AT ALL THERMOSTATS AND TEMPERATURE SENSORS LOCATED ON EXTERIOR WALLS.
42. MAXIMUM LENGTH OF FLEXIBLE DUCT RUNOUT TO DIFFUSERS SHALL BE 6'-0". PROVIDE HARD DUCT FOR LONGER DIFFUSER RUNOUTS.
43. ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED OR DOUBLE WALL CONSTRUCTION. ALL EXPOSED ROUND AND OVAL DUCTWORK SHALL BE SPIRAL TYPE.
44. ALL EXPOSED DUCTWORK AND PIPING SHALL RUN PARALLEL WITH AND PERPENDICULAR TO WALLS AND BUILDING STRUCTURE.
45. ALL EXPOSED DUCTWORK, EQUIPMENT, AND PIPING SHALL BE PREPPED FOR PAINTING. PAINTING SHALL BE BY OTHERS. TAGS AND LABELS SHALL NOT BE PAINTED.
46. PROVIDE FILTER FABRIC AT ALL RETURN AIR OPENINGS WHERE EXISTING AIR HANDLING EQUIPMENT IS TO REMAIN IN OPERATION DURING CONSTRUCTION.

STATE OF SOUTH CAROLINA — REGISTERED ENGINEERS — RMF ENGINEERING INC. CHARLESTON, SC C-00831

SOUTH CAROLINA PROFESSIONAL ENGINEER — GREGORY TAYLOR HUDSON — 32947 — 2026-07-20

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CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NAME

PROJECT NUMBER 03240069.A0

DRAWN BY LEL

CHECKED BY GTH

DATE 07/20/2026

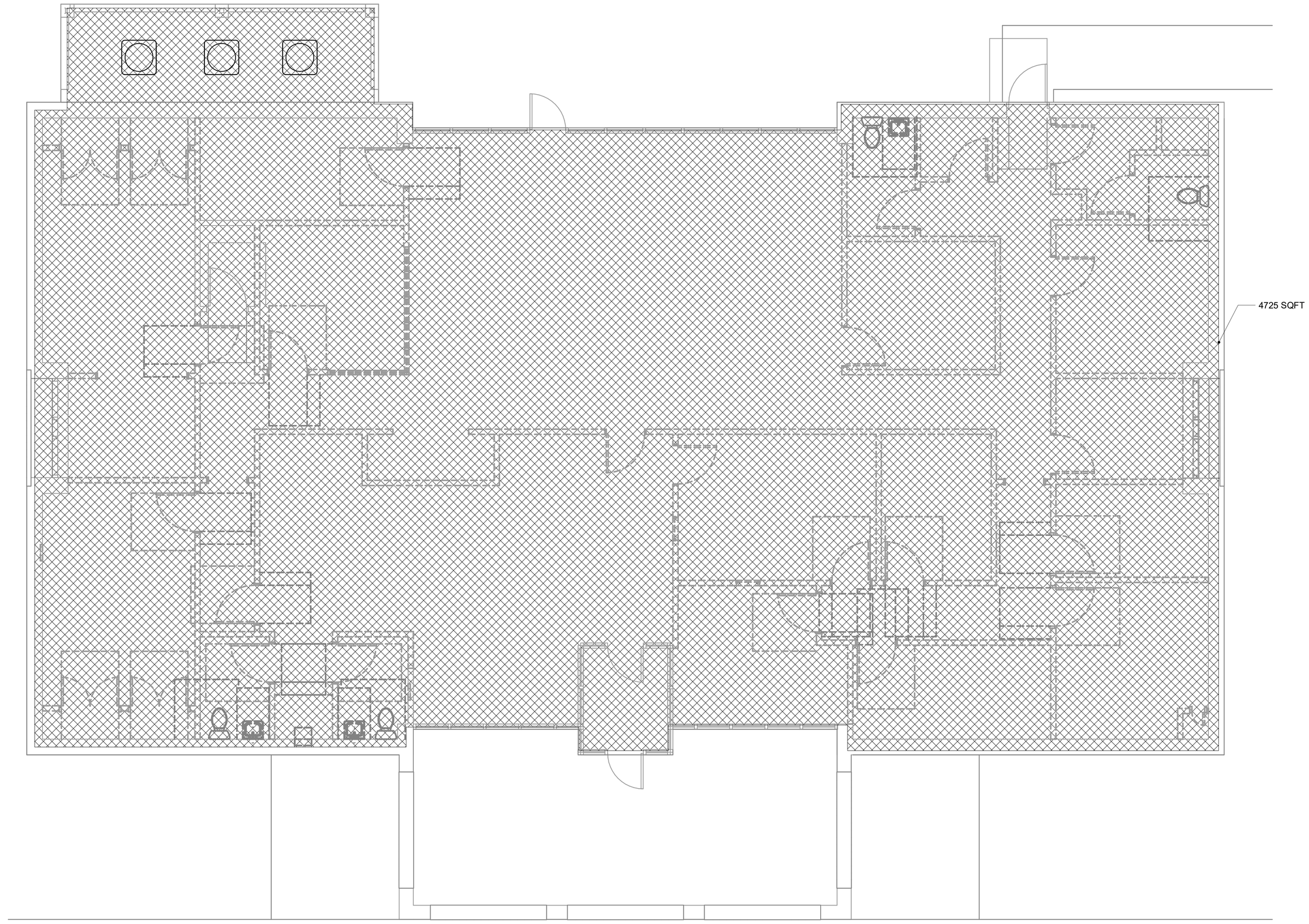
SCALE

M002

7/20/2026 6:05:08 PM

GENERAL NOTES

1. DEMOLISH ALL EXISTING MECHANICAL EQUIPMENT WITHIN HATCHED AREA ON FLOOR PLAN. THIS WILL INCLUDE ALL ASSOCIATED DUCTWORK, PIPING, POWER WIRING, AND CONTROL DEVICES.
2. ANY MECHANICAL EXTERIOR PENETRATIONS SHALL BE PATCHED AND REFINISHED DURING THE NEW WORK PHASE.
3. DEMOLISH EXISTING ATTIC VENTILATION FANS, WIRING, AND CONTROLS. REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR PENETRATION PATCH WORK ADDRESSED IN THE NEW WORK PHASE.



MECHANICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING, INC.
CHARLESTON, SC
C--00831
REGISTERED ENGINEERS

SOUTH CAROLINA
PROFESSIONAL ENGINEER
32947
2026-07-20
GREGORY TAYLOR HUDSON

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MECHANICAL DEMOLITION PLAN

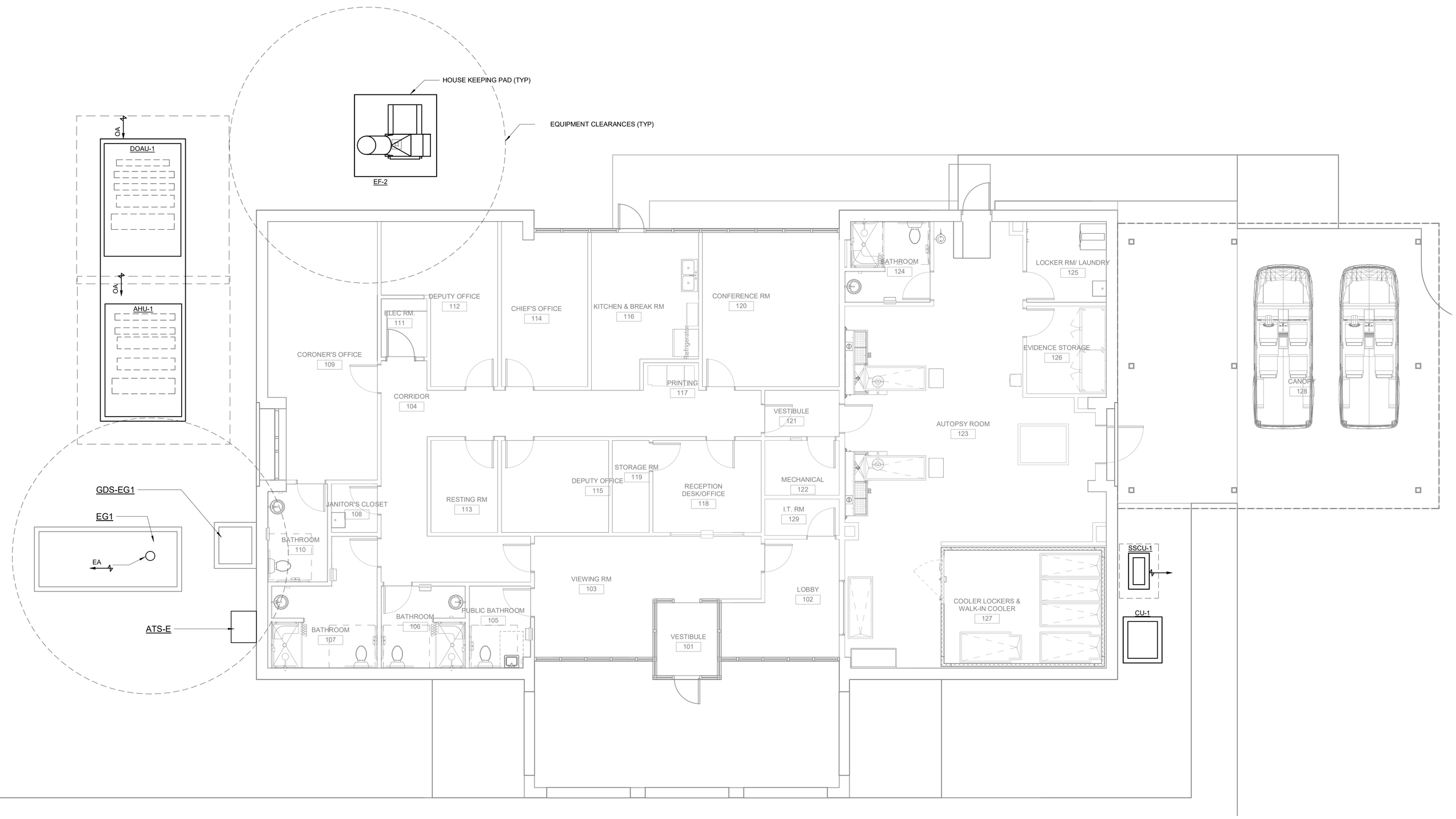
SHEET NAME

PROJECT NUMBER	03240069.A0
DRAWN BY	LEL
CHECKED BY	GTH
DATE	07/20/2026
SCALE	1/4" = 1'-0"

MD100

GENERAL NOTES

1. THIS PLAN IS FOR CONTRACTOR TO UNDERSTAND WHERE THE MECHANICAL AND ELECTRICAL IS INTENDED TO BE LAID OUT ON THE SIDE OF THE BUILDING. THE ELECTRICAL EQUIPMENT IS HALF TONED. REFER TO E010 FOR ADDITIONAL INFORMATION.
2. ALL EXHAUST OUTLETS SHALL BE A MINIMUM OF 25FT AWAY FROM ANY OUTDOOR AIR INTAKE.
3. ALL MECHANICAL SHALL HAVE A HOUSE KEEPING EQUIPMENT PAD. SEE DETAIL 6 ON M401 FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL COORDINATE AND FINALIZED DRY WELL LOCATIONS FOR MECHANICAL CONDENSATE.



MECHANICAL EQUIPMENT PLAN
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE
6 3 0 6 12
SCALE: 3/16" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA — REGISTERED ENGINEERS — RMF ENGINEERING INC. CHARLESTON, SC C-00831

SOUTH CAROLINA — PROFESSIONAL ENGINEER — 32947 — GREGORY TAYLOR HUDSON — 2026-07-20

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SHEET NAME: MECHANICAL EQUIPMENT PLAN

PROJECT NUMBER	03240069.A0
DRAWN BY	LEL
CHECKED BY	GTH
DATE	07/20/2026
SCALE	3/16" = 1'-0"

M100

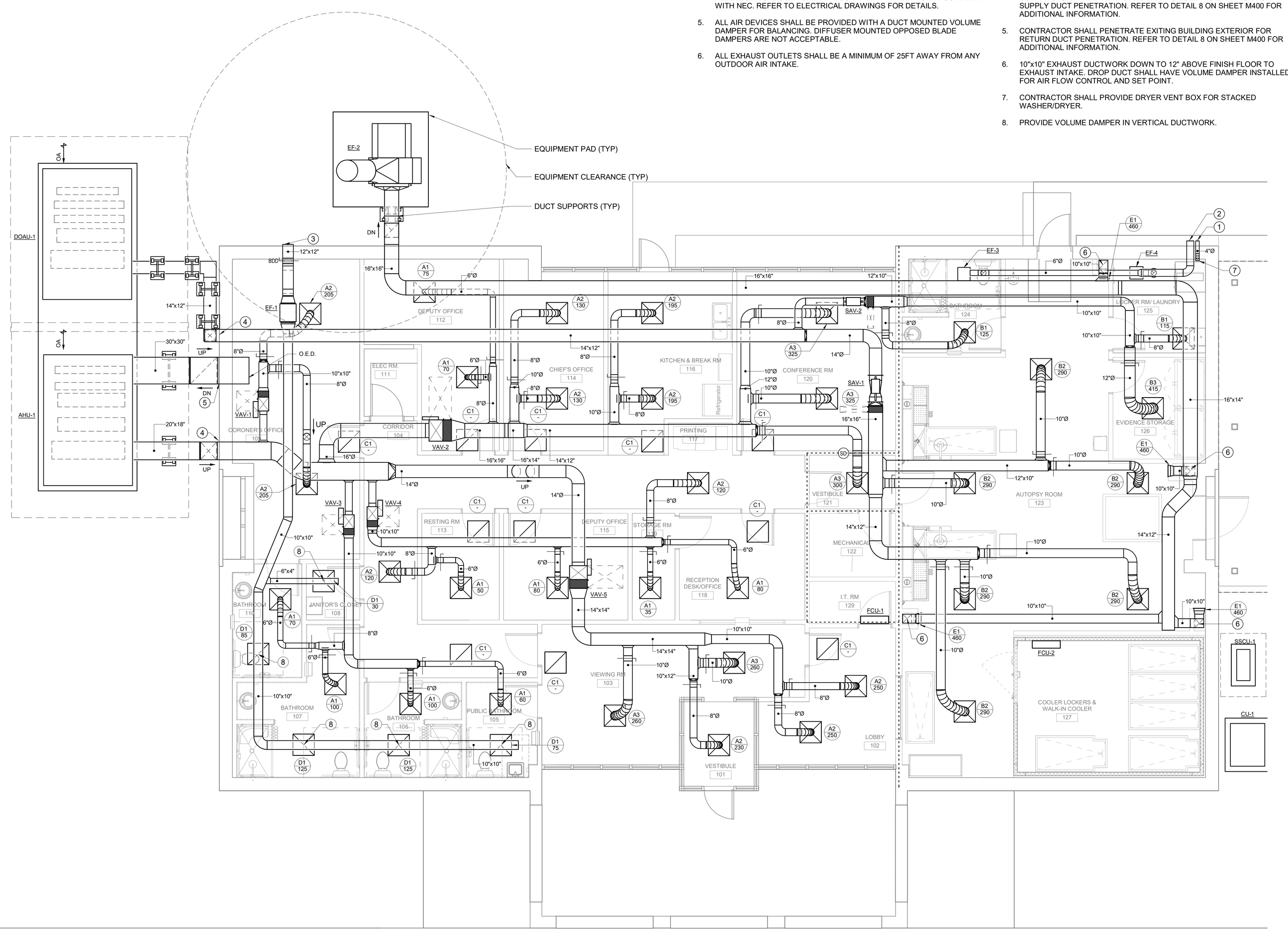
7/20/2026 6:05:10 PM

GENERAL NOTES

1. UNLESS OTHERWISE INDICATED, RETURN GRILLES SHALL BE 24"x24" TYPE B1 WITH 18"x18" NECK.
2. AIR TERMINAL UNITS SHALL BE INSTALLED PER THE MANUFACTURERS WRITTEN INSTRUCTION. REFER TO AIR TERMINAL UNIT SCHEDULE FOR INLET DUCT SIZES UNLESS OTHERWISE NOTED.
3. ALL OPEN ENDED RETURN AND TRANSFER DUCTS SHALL BE PROVIDED WITH MESH SCREEN OVER OPENING.
4. HVAC IN ELECTRICAL/TELECOM ROOMS SHALL BE COORDINATED WITH ALL ELECTRICAL COMPONENTS SUCH THAT INSTALLATION IS COMPLIANT WITH NEC. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
5. ALL AIR DEVICES SHALL BE PROVIDED WITH A DUCT MOUNTED VOLUME DAMPER FOR BALANCING. DIFFUSER MOUNTED OPPOSED BLADE DAMPERS ARE NOT ACCEPTABLE.
6. ALL EXHAUST OUTLETS SHALL BE A MINIMUM OF 25FT AWAY FROM ANY OUTDOOR AIR INTAKE.

(#) DRAWING NOTES

1. 4"Ø DRYER VENT TO TERMINATE AT THIS LOCATION WITH A WALL CAP. REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR FINISHES.
2. 8"Ø EXHAUST TO TERMINATE AT THIS LOCATION WITH A WALL CAP. REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR FINISHES.
3. PROVIDE 12"x12" LOUVER WITH MINIMUM 51% FREE AREA AND INTEGRATED BACKDRAFT DAMPER. LOUVER LOCATION SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.
4. CONTRACTOR SHALL PENETRATE EXITING BUILDING EXTERIOR FOR SUPPLY DUCT PENETRATION. REFER TO DETAIL 8 ON SHEET M400 FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL PENETRATE EXITING BUILDING EXTERIOR FOR RETURN DUCT PENETRATION. REFER TO DETAIL 8 ON SHEET M400 FOR ADDITIONAL INFORMATION.
6. 10"x10" EXHAUST DUCTWORK DOWN TO 12" ABOVE FINISH FLOOR TO EXHAUST INTAKE. DROP DUCT SHALL HAVE VOLUME DAMPER INSTALLED FOR AIR FLOW CONTROL AND SET POINT.
7. CONTRACTOR SHALL PROVIDE DRYER VENT BOX FOR STACKED WASHER/DRYER.
8. PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK.



MECHANICAL DUCTWORK PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

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MECHANICAL DUCTWORK FLOOR PLAN

SHEET NAME

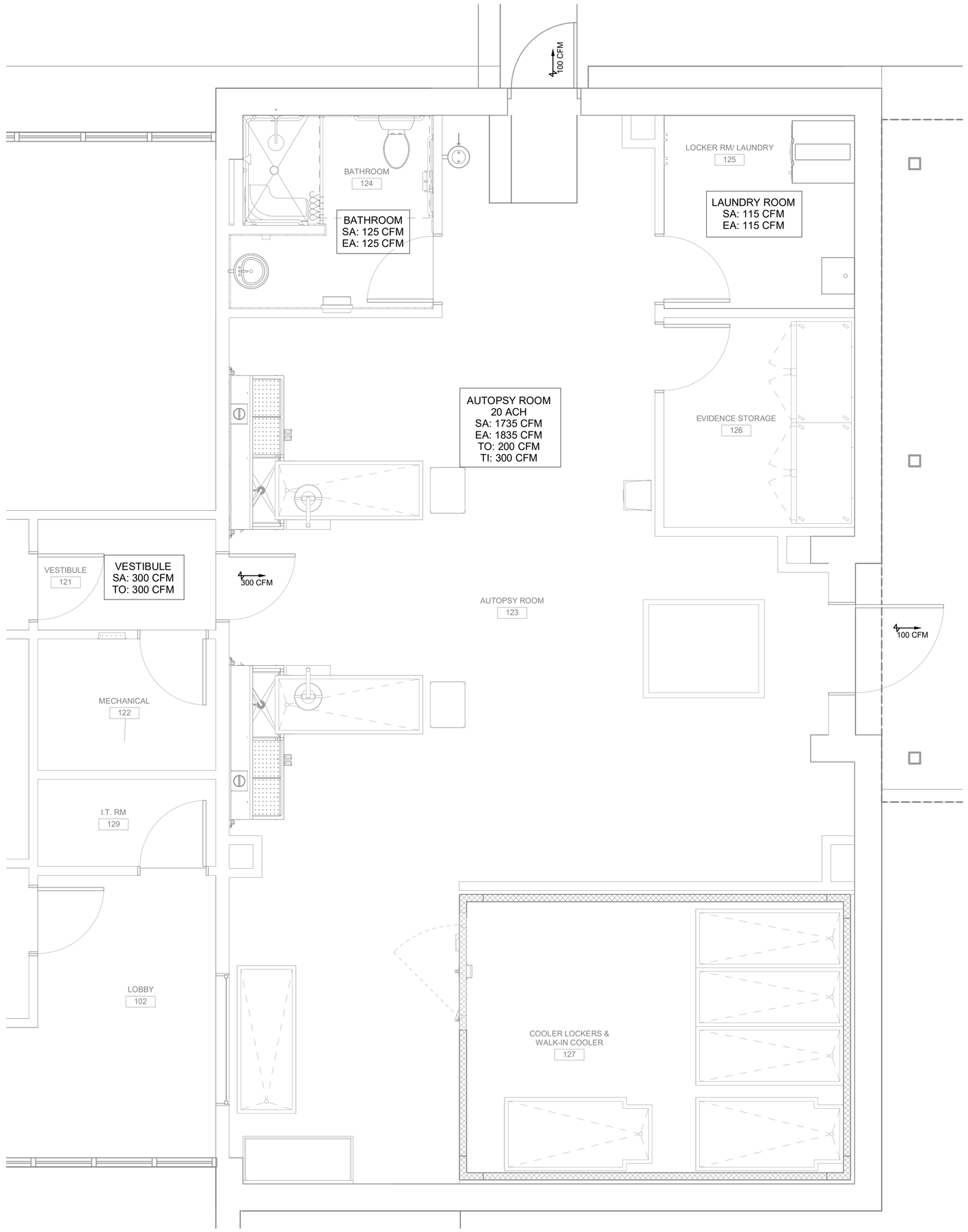
PROJECT NUMBER	03240069.A0
DRAWN BY	LEL
CHECKED BY	GTH
DATE	07/20/2026
SCALE	1/4" = 1'-0"

M101

7/20/2026 6:05:12 PM

AIR BALANCE LEGEND

ACH: AIR CHANGES
SA: SUPPLY AIR
EX: EXHAUST AIR
TI: TRANSFER IN
TO: TRANSFER OUT



MECHANICAL AIR BALANCE PLAN
SCALE: 3/8" = 1'-0"

GRAPHIC SCALE
3 1.5 0 3 6
SCALE: 3/8" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
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REGISTERED ENGINEERS

SOUTH CAROLINA
PROFESSIONAL ENGINEER
32947
2026-07-20
GREGORY TAYLOR HUDSON

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MECHANICAL AIR BALANCE PLAN

SHEET NAME

PROJECT NUMBER	03240069.A0
DRAWN BY	LEL
CHECKED BY	GTH
DATE	07/20/2026
SCALE	As indicated

M102

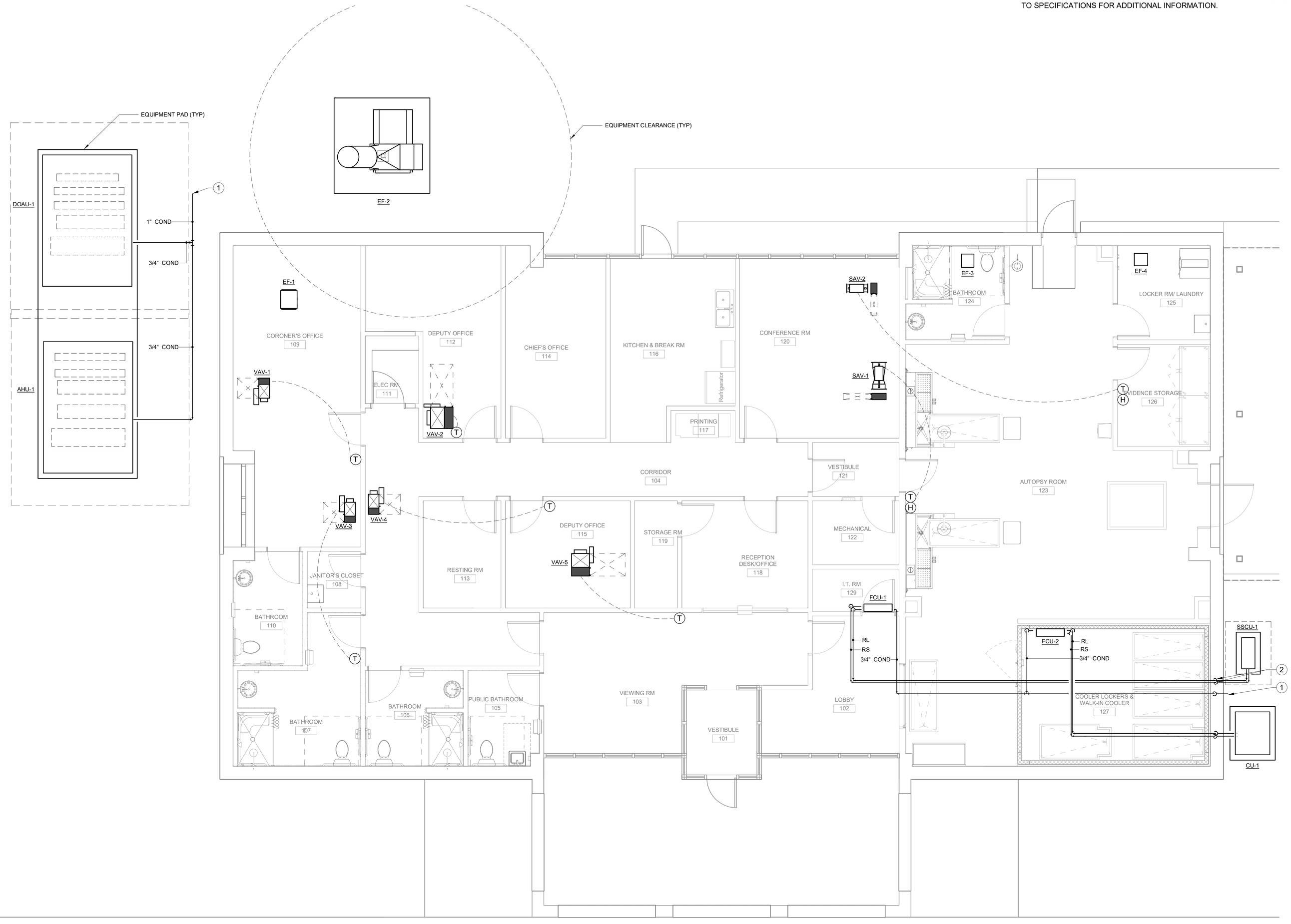
7/20/2026 6:05:12 PM

GENERAL NOTES

1. ALL WALL MOUNTED THERMOSTATS SHALL BE LOCATED AT THE SAME HEIGHT AS THE LIGHT SWITCH. LOCATION SHALL BE FULLY COORDINATED WITH ARCHITECTURAL CASEWORK AND ELECTRICAL.

(#) DRAWING NOTES

1. UNIT PUMPED CONDENSATE SHALL TERMINATE 6" ABOVE FINISH GRADE OUTSIDE ONTO A SPLASH BLOCK AT GRADE.
2. RL/RS PIPING SHALL RUN DOWN EXISTING EXTERIOR WALL. PIPING SHALL BE SUPPORTED FROM UNI-STRUT CHANNELS ATTACHED TO EXTERIOR WALL. PIPING SHALL BE INSULATED WITH ELECTROMETRIC FOAM INSULATION AND COVERED WITH UV RESISTANT COATING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



MECHANICAL PIPING PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

SEALS

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NOTES:

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P: 843-971-9639 F: 843-971-9641

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CONSTRUCTION DOCUMENTS

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101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

MECHANICAL PIPING FLOOR PLAN

SHEET NAME

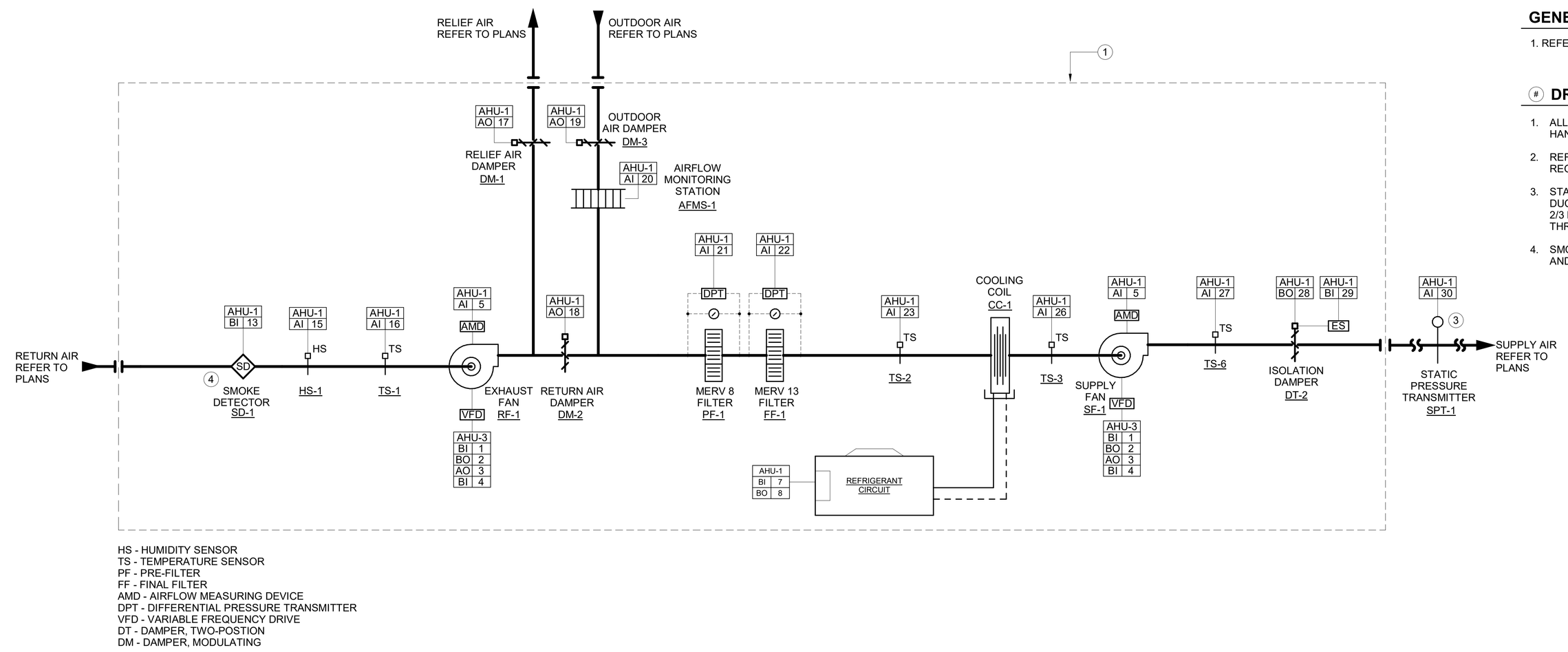
PROJECT NUMBER	03240069.A0
DRAWN BY	LEL
CHECKED BY	GTH
DATE	07/20/2026
SCALE	1/4" = 1'-0"

M200

7/20/2026 6:05:13 PM

AIR HANDLING UNIT INPUT / OUTPUT SUMMARY

		INPUTS																						OUTPUTS								SPECIAL FEATURES																				
		ANALOG												BINARY										BINARY			ANALOG					ALARMS										PROGRAMS									
		MEASURED						CALC.																																													
POINT NO.	IO SYSTEM TYPE	TEMPERATURE	VELOCITY PRESSURE	STATIC PRESSURE	DIFFERENTIAL PRESSURE	RELATIVE HUMIDITY	CARBON DIOXIDE	GPM	BTU/HR	RUN TIME	CFM	TONS	ENTHALPY	STATUS (DIFF. PRESS)	LOW STATIC LIMIT	SMOKE	FREEZESTAT	HIGH HUM. LIMIT	STATUS (AMPS)	END SWITCH	VFD FAULT	HIGH STATIC LIMIT	START STOP	DAMPER POSITION	VALVE POSITION	DAMPER POSITION	VALVE POSITION	FAN SPEED	WHEEL SPEED	PUMP SPEED	LOW TEMP LIMIT	HIGH TEMP LIMIT	LOW DIFF. PRESSURE	HIGH DIFF. PRESSURE	HIGH HUM. LIMIT	HIGH CO2 LIMIT	FAULT (VFD)	PROOF	FAILURE	SMOKE ALARM	TIME SCHEDULING	ALTERNATE	TIME DELAY START	OCCUPIED/UNOCCUPIED	TEMPERATURE RESET	MORNING WARM UP	LEAD/LAG	SMOKE CONTROL	COLOR GRAPHICS
5,10	AIRFLOW MEASURING DEVICE		X								X																																						X
7-8	VARIABLE REFRIGERANT CIRCUIT																				X		X																											X
11,28	(none)																																																	
12,29	END SWITCH (DAMPER)																			X																				X											X
13	SMOKE DETECTOR															X																									X										X
15	DUCT SENSOR (HUMIDITY)					X																														X														X
16,23,24,26,27	DUCT SENSOR (TEMPERATURE)	X																													X	X																		X
17	(none)																																																	
18	DAMPER (RETURN)																									X																X										X
19	DAMPER (OUTDOOR)																							X																		X										X
20	AIRFLOW MONITORING STATION		X								X																																								X
21,22	DIFFERENTIAL PRESSURE TRANSMITTER (FILTER BANK)				X																														X															X
30	STATIC PRESSURE TRANSMITTER			X																																														X



HS - HUMIDITY SENSOR
TS - TEMPERATURE SENSOR
PF - PRE-FILTER
FF - FINAL FILTER
AMD - AIRFLOW MEASURING DEVICE
DPT - DIFFERENTIAL PRESSURE TRANSMITTER
VFD - VARIABLE FREQUENCY DRIVE
DT - DAMPER, TWO-POSTION
DM - DAMPER, MODULATING

SCHEMATIC - AHU-1 - DX MULTIZONE, W/ ELECTRIC REHEAT
SCALE: N.T.S.

GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR FAN TYPE

(#) DRAWING NOTES

1. ALL ITEMS LOCATED WITHIN THE DASHED LINE ARE PART OF THE AIR HANDLING UNIT.
2. REFER TO COIL PIPING DETAILS FOR ADDITIONAL VALVING REQUIREMENTS.
3. STATIC PRESSURE SENSOR SHALL BE LOCATED IN THE SUPPLY DUCTWORK AT THE POINT(S) OF MINIMUM STATIC PRESSURE (TYPICALLY 2/3 DOWNSTREAM) AND THE INITIAL BALANCE SET POINT DETERMINED THROUGH TEST AND BALANCE.
4. SMOKE DETECTOR SHALL BE FURNISHED AND WIRED UNDER DIVISION 28 AND INSTALLED BY DIVISION 23.

STATE OF SOUTH CAROLINA — REGISTERED ENGINEERS — RMF ENGINEERING INC. CHARLESTON, SC C-00831
SOUTH CAROLINA — PROFESSIONAL ENGINEER — 32947 — GREGORY TAYLOR HUDSON — 2026-07-20
SEALS

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MECHANICAL SCHEMATICS AND CONTROL SEQUENCES

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY LEL
CHECKED BY GTH
DATE 07/20/2026
SCALE 12" = 1'-0"

M300

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SEQUENCE OF OPERATION

PART 1 - MASTER HEATING AND COOLING CONTROL

A. THE INTEGRAL AHU CONTROLLER SHALL COMMAND THE AIR HANDLING UNIT ON BASED ON THE OCCUPIED/UNOCCUPIED SCHEDULE (INITIAL SCHEDULE SHALL BE PROVIDED BY THE OWNER) AND ENABLE THE AHU'S AUTOMATIC CONTROLS TO OPERATE AS INDICATED BELOW.
B. INTEGRAL AHU CONTROLLER SHALL NORMALLY CONTROL THE SYSTEM HEATING AND COOLING MODES AS SELECTED IN ACCORDANCE WITH OUTDOOR AIR TEMPERATURE THROUGH THE UNIT OUTDOOR AIR SENSOR. ON A RISE IN OUTDOOR AIR TEMPERATURE TO 50°F AND ABOVE, SYSTEMS SHALL OPERATE IN THE COOLING MODE. ON A FALL IN OUTDOOR AIR TEMPERATURE BELOW 50°F SYSTEMS SHALL OPERATE IN THE HEATING MODE.
C. CONTROL POINT ADJUSTMENT FOR "HEATING" AND "COOLING" CHANGEOVER TEMPERATURE SHALL BE BY THE AHU CONTROLLER.
D. WHERE USED TO CONTROL BOTH COMFORT HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.
E. THE HVAC SYSTEM SHALL BE CAPABLE OF MAINTAINING SPACE TEMPERATURE SET POINTS WITHIN 2°F (PLUS OR MINUS) HEAD TO FOOT AND FROM SPACE TO SPACE.

PART 2 - AIR HANDLING UNIT CONTROL

A. SYSTEM CONTROL

1. SUPPLY AND RETURN FAN ARRAYS SHALL BE MANUALLY INDEXED TO THE AUTOMATIC MODE AT THEIR RESPECTIVE VARIABLE FREQUENCY DRIVES.
2. THE AIR HANDLING UNIT SHALL BE ENERGIZED VIA THE INTERNAL UNIT CONTROLLER. THE UNIT SHALL DETERMINE AND OPERATE THE UNIT ON AN OPTIMAL OCCUPIED AND UNOCCUPIED SCHEDULE WITH A 365 DAY/24 HOUR GRAPHIC INTERFACE SCHEDULE PROGRAM.
3. OPTIMUM START: THE UNIT SHALL COMMAND THE SYSTEM ON BASED ON THE OPTIMUM START CONTROL STRATEGY (ALGORITHM) PROGRAMMED INTO THE UNIT OR WHEN THE AHU IS OVERRIDDEN TO THE OCCUPIED MODE BY AN OPERATOR'S WORKSTATION, WEB INTERFACE OR FROM A VAV TERMINAL UNIT SPACE SENSOR OVERRIDE PUSHBUTTON. THE OPTIMUM START STRATEGY SHALL COMPARE EACH TERMINAL UNIT'S SPACE TEMPERATURE (WITHIN THE RESPECTIVE AHU ZONE) TO ITS OCCUPIED TEMPERATURE SETPOINT AND DETERMINE THE LENGTH OF TIME REQUIRED TO BRING THE SPACE FROM ITS CURRENT TEMPERATURE TO ITS OCCUPIED SPACE SETPOINT BASED ON THE SYSTEMS PREVIOUS OPERATING HISTORY AND CURRENT OUTSIDE TEMPERATURE AND HUMIDITY CONDITIONS. THE BAS SHALL WAIT AS LONG AS POSSIBLE TO START THE AHU SO THAT THE OCCUPIED TEMPERATURE SETPOINT IN EACH ZONE IS REACHED JUST BEFORE THE SCHEDULED OCCUPIED TIME.
4. OPTIMUM STOP: THE BAS SHALL DETERMINE HOW EARLY THE HEATING/COOLING TO EACH SPACE MAY BE COMMANDED OFF SO THAT THE SPACE DRIFTS NO MORE THAN 2°F FROM ITS HEATING OR COOLING SETPOINTS BEFORE THE END OF THE OCCUPIED SCHEDULE. THE SUPPLY FAN ARRAY, RETURN FAN ARRAY, RETURN AIR DAMPER, RELIEF AIR DAMPER AND OUTSIDE AIR DAMPER SHALL CONTINUE TO OPERATE TO PROVIDE AIRFLOW AND VENTILATION TO THE OCCUPIED SPACES UNTIL THE END OF THE OCCUPIED SCHEDULE.
5. WHEN THE AIR HANDLING UNIT IS ENERGIZED, THE RETURN, RELIEF AND OUTDOOR DAMPERS SHALL OPEN TO THEIR MINIMUM BALANCED POSITIONS. THE SUPPLY AND RETURN FAN ARRAYS SHALL BE SOFT STARTED TO MINIMUM SPEED.
6. THE SUPPLY FAN ARRAY SPEED SHALL BE MODULATED VIA THE VFD TO MAINTAIN SYSTEM STATIC PRESSURE SET POINT AS SEEN BY THE SYSTEM STATIC PRESSURE TRANSMITTER (SPT). THE SUPPLY FAN ARRAY SHALL BE PROVIDED WITH A HIGH LIMIT CONTROL FUNCTION WHICH SHALL LIMIT THE CFM OF THE ARRAY TO 115% OF ITS SCHEDULED QUANTITY. THE HIGH LIMIT CONTROL FUNCTION SHALL OVERRIDE SYSTEM STATIC PRESSURE CONTROL, ALARM THE UNIT CONTROLLER AND DEENERGIZE THE SUPPLY FAN ARRAY IF THE CFM EXCEEDS THE HIGH CFM LIMIT.
7. THE RETURN FAN ARRAY SPEED SHALL BE MODULATED TO MAINTAIN CONSTANT DIFFERENTIAL BETWEEN THE RETURN AIR QUANTITY AS SEEN BY THE SUM OF THE RETURN FAN AIR FLOW MONITORING STATIONS AND THE SUPPLY AIR QUANTITY AS SEEN BY THE SUM OF THE SUPPLY FAN AIR FLOW MONITORING STATION TO PROVIDE PROPER BUILDING PRESSURIZATION. THE CONSTANT DIFFERENTIAL SETPOINT SHALL BE EQUAL THE SCHEDULED MINIMUM OA QUANTITY.
8. WHEN THE AIR HANDLING UNIT IS DEENERGIZED THROUGH THE BAS, ALL CONTROLS SHALL RETURN TO THEIR NORMAL POSITION READY FOR RESTARTING. SUPPLY AND RETURN FANS SHALL BE DISABLED. OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL CLOSE; COOLING COIL VALVE SHALLS BE CLOSED AND ELECTRIC RESISTANCE HEAT SHALL BE DEENERGIZED. RETURN AIR DAMPER SHALL BE OPEN.

B. HEATING MODE CONTROL

1. OCCUPIED MODE: SUPPLY AND RETURN FAN ARRAYS SHALL BE RUNNING; RETURN, RELIEF AND OUTDOOR DAMPERS SHALL BE OPEN TO THEIR BALANCED POSITIONS. THE BAS SHALL MODULATE THE OUTSIDE AIR AND RETURN AIR DAMPERS SIMULTANEOUSLY TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 55°F. ON A RISE IN TEMPERATURE ABOVE ITS SET POINT WITH THE ELECTRIC RESISTANCE HEAT DEENERGIZED, THE UNIT SHALL OPERATE IN ACCORDANCE WITH THE "COOLING MODE" OR "ECONOMIZER" SEQUENCE
2. UNOCCUPIED MODE: THE AIR HANDLING UNIT SHALL BE DEENERGIZED WHEN THE UNOCCUPIED MODE IS INITIATED. THE SUPPLY AND RETURN FAN ARRAYS SHALL BE ENERGIZED WHEN OUTDOOR AIR TEMPERATURE, AS SEEN BY GLOBAL OUTDOOR AIR TEMPERATURE SENSOR, DROPS BELOW 40°F AND ANY TWO ROOM TEMPERATURES DROP BELOW THE REDUCED UNOCCUPIED TEMPERATURE SET POINT OF 60°F. THE RETURN DAMPER SHALL BE OPEN. OUTDOOR AIR DAMPER AND RELIEF DAMPER SHALL REMAIN CLOSED. THE AIR HANDLING UNIT SHALL BE DEENERGIZED WHEN THE TEMPERATURE IN ALL ZONES REACHES A MINIMUM OF 65°F.
3. WARM-UP MODE: THE BAS SHALL DETERMINE THE WARM-UP MODE START AND STOP TIMES BASED ON THE OPTIMAL START PROGRAM. SUPPLY AND RETURN FAN ARRAYS SHALL START WHEN THE UNIT IS INDEXED TO WARM-UP MODE BY THE BAS. RETURN DAMPER SHALL BE OPEN. OUTDOOR AIR DAMPER AND RELIEF DAMPER SHALL REMAIN CLOSED. AIR TERMINAL UNIT AIR REGULATORS SHALL OPEN TO MAXIMUM HEATING POSITION. AIR TERMINAL UNIT REHEAT COILS SHALL BE MODULATED TO MAINTAIN OCCUPIED ROOM TEMPERATURE SETPOINT. WHEN THE SECOND COLDEST TERMINAL UNIT SPACE TEMPERATURE SENSOR REACHES THE WARMUP SETPOINT OF 68°F, THE SYSTEM SHALL BE CONTROLLED AS INDICATED IN OCCUPIED MODE.
4. THE MECHANICAL AND TAB CONTRACTORS AND UNIT CONTROLLER PROVIDER SHALL DETERMINE THE UNOCCUPIED MODE AND WARM-UP MODE SUPPLY AND RETURN FAN ARRAY AIRFLOW SETPOINTS TO PREVENT EXCESS SYSTEM NEGATIVE PRESSURE AND DAMAGE TO THE RETURN AIR DUCTWORK SYSTEM WHILE THE OUTDOOR AIR DAMPERS ARE CLOSED.

C. COOLING MODE CONTROL

1. OCCUPIED MODE: SUPPLY AND RETURN FAN ARRAYS SHALL BE RUNNING; RELIEF, RETURN AND OUTDOOR DAMPERS SHALL BE OPEN TO THEIR BALANCED POSITIONS. DISCHARGE AIR TEMPERATURE SENSOR, SHALL SLOWLY MODULATE THE UNIT REFRIGERANT CIRCUIT TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT.
2. UNOCCUPIED MODE: THE AIR HANDLING UNIT SHALL BE DEENERGIZED WHEN THE UNOCCUPIED MODE IS INITIATED. THE SUPPLY AND RETURN FAN ARRAYS SHALL BE ENERGIZED WHEN OUTDOOR AIR TEMPERATURE, AS SEEN BY GLOBAL OUTDOOR AIR TEMPERATURE SENSOR, RISES ABOVE 90°F AND ANY TWO ROOM TEMPERATURES RISE ABOVE THE INCREASED UNOCCUPIED TEMPERATURE SET POINT OF 84°F. RETURN DAMPER SHALL BE OPEN. OUTDOOR AIR DAMPER AND RELIEF DAMPER SHALL BE CLOSED. THE AIR HANDLING UNIT SHALL BE DEENERGIZED WHEN THE TEMPERATURE IN ALL ZONES REACHES A MAXIMUM OF 79°F.
3. COOL-DOWN MODE: THE BAS SHALL DETERMINE THE COOL-DOWN MODE START AND STOP TIMES BASED ON THE OPTIMAL START PROGRAM. SUPPLY AND RETURN FAN ARRAYS SHALL START WHEN THE UNIT IS INDEXED TO COOL-DOWN MODE BY THE BAS. RETURN DAMPER SHALL BE OPEN. OUTDOOR AIR DAMPER AND RELIEF DAMPER SHALL BE CLOSED. AIR TERMINAL UNIT AIR REGULATORS SHALL OPEN TO MAXIMUM COOLING POSITION. WHEN THE SECOND WARMEST TERMINAL UNIT SPACE TEMPERATURE SENSOR REACHES THE COOL-DOWN SETPOINT OF 80°F, THE SYSTEM SHALL BE CONTROLLED AS INDICATED IN OCCUPIED MODE.
4. THE MECHANICAL AND TAB CONTRACTORS SHALL DETERMINE THE COOL-DOWN MODE SUPPLY AND RETURN FAN ARRAY AIRFLOW SETPOINTS TO PREVENT EXCESS SYSTEM NEGATIVE PRESSURE AND DAMAGE TO THE RETURN AIR DUCTWORK SYSTEM WHILE THE OUTDOOR AIR DAMPERS ARE CLOSED.

D. OUTDOOR AIR DAMPER

1. THE OUTDOOR AIR DAMPER SHALL BE CLOSED DURING COOL-DOWN, WARM-UP AND UNOCCUPIED MODES.
2. DURING OCCUPIED MODE, OUTDOOR AIR DAMPER SHALL INITIALLY OPEN TO ITS MINIMUM POSITION TO MAINTAIN THE MINIMUM OUTDOOR AIR QUANTITY AS SEEN BY OUTDOOR AIR FLOW MONITORING STATION. MINIMUM OUTDOOR AIR POSITION/QUANTITY SHALL BE SET BY THE TAB CONTRACTOR BASED ON ZONE EXHAUST AND BUILDING POSITIVE PRESSURE (INDICATED ON THE AIR HANDLING UNIT SCHEDULE).

E. ECONOMIZER CONTROL

1. WHEN THE OUTDOOR AIR DRY BULB TEMPERATURE IS LESS THAN 70°F AND THE ENTHALPY IS LESS THAN 28 BTU/LB OF DRY AIR, THE BAS SHALL MODULATE THE OUTDOOR AIR, RELIEF AIR AND RETURN AIR DAMPERS IN SEQUENCE TO MAINTAIN THE AHU LEAVING AIR TEMPERATURE SETPOINT OF 55°F.
2. ECONOMIZER CONTROL SHALL BE DISABLED IF OUTDOOR AIR DRY BULB TEMPERATURE RISES ABOVE 72°F, ENTHALPY RISES ABOVE 30 BTU/LB OF DRY AIR OR AHU'S LEAVING AIR TEMPERATURE DROPS BELOW 52°F.

F. DEHUMIDIFICATION CONTROL

1. ON A RISE IN RETURN AIR HUMIDITY ABOVE 60% RH ALL TEMPERATURE CONTROL, SEQUENCES SHALL BE OVERRIDDEN. OUTSIDE AIR AND RETURN AIR DAMPERS SHALL RETURN TO THEIR MINIMUM BALANCED POSITIONS.
2. THE DISCHARGE AIR SETPOINT SHALL BE REDUCED 3°F, AND THE UNIT REFRIGERANT CIRCUIT SHALL MODULATE TO MAINTAIN THE REDUCED DEHUMIDIFICATION DISCHARGE AIR TEMPERATURE SETPOINT.
3. WHEN THE RETURN AIR RELATIVE HUMIDITY DROPS BELOW 55% FOR 15 MINUTES, THE DEHUMIDIFICATION MODE SHALL BE CANCELED. THE DISCHARGE AIR SETPOINT SHALL BE RETURNED TO NORMAL (55°F) AND THE UNIT REFRIGERANT CIRCUIT SHALL BE CONTROLLED TO MAINTAIN THE DISCHARGE AIR SETPOINT.

G. SMOKE CONTROL

1. THE AHU AND ASSOCIATED AIR DISTRIBUTION SYSTEM SHALL BE EQUIPPED WITH SMOKE DETECTORS IN ACCORDANCE WITH THE INTERNATIONAL FIRE AND MECHANICAL CODES.
2. AN AHU OR ASSOCIATED AIR DISTRIBUTION (HVAC) SMOKE DETECTOR SHALL, UPON ACTIVATION, SHUT DOWN ALL OPERATIONAL CAPABILITIES OF THE RESPECTIVE AIR DISTRIBUTION SYSTEM. THE AIR HANDLING UNIT AND ALL ASSOCIATED SYSTEM SUPPLY, RETURN AND EXHAUST FANS SHALL DEENERGIZE AND AN ALARM SHALL BE ANNUNCIATED TO THE UNIT CONTROLLER.

H. ALARMS

1. FAN FAILURE: A FAILURE OF ANY SUPPLY OR RETURN FANS WITHIN THE RESPECTIVE FAN ARRAY AS SENSED BY THEIR RESPECTIVE CURRENT TRANSDUCERS SHALL BE ALARMED TO THE UNIT CONTROLLER. UPON SENSING FAILURE, THE UNIT CONTROLLER SHALL INDICATE ALARM AND DISABLE THE FAILED FAN.
2. DAMPER FAILURE: A FAILURE OF ANY OF THE DAMPERS THAT ARE REQUIRED TO BE PROVEN OPEN FOR NORMAL OPERATION SHALL BE ALARMED TO THE UNIT CONTROLLER. UPON SENSING FAILURE, THE UNIT CONTROLLER SHALL INDICATE ALARM, DISABLE THE AHU AND RETURN ALL CONTROLS TO THEIR NORMAL POSITION.
3. HIGH STATIC PRESSURE: AT A SUPPLY STATIC PRESSURE AT 6" W.G. AS SENSED BY AHU STATIC PRESSURE TRANSMITTER (SPT), THE UNIT CONTROLLER SHALL INDICATE ALARM, DISABLE THE AHU AND RETURN ALL CONTROLS TO THEIR NORMAL POSITION.
4. HIGH RETURN AIR TEMPERATURE: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 80°F FOR MORE THAN 30 MINUTES, THE UNIT CONTROLLER SHALL INDICATE ALARM.
5. LOW RETURN AIR TEMPERATURE: IF THE RETURN AIR TEMPERATURE IS LESS THAN 65°F FOR MORE THAN 30 MINUTES, THE UNIT CONTROLLER SHALL INDICATE ALARM.
6. HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 10% RH ABOVE DEHUMIDIFICATION MODE SETPOINT, OR GREATER THAN UPPER LIMIT OF 70% FOR MORE THAN 30 MINUTES, THE UNIT CONTROLLER SHALL INDICATE ALARM.
7. FILTERS: DIFFERENTIAL PRESSURE TRANSMITTER INSTALLED ACROSS THE FILTER BANK SHALL ALARM THE UNIT CONTROLLER WHEN THEIR RESPECTIVE SETTINGS ARE REACHED. INITIAL HIGH DIFFERENTIAL PRESSURE SET POINTS SHALL BE PER FILTER MANUFACTURER'S RECOMMENDATIONS.
8. ELECTRIC RESISTANCE HEAT: THE BAS SHALL PROVIDE POSITIVE FEEDBACK THAT THE ELECTRIC RESISTANCE HEATER IS PROVEN ON DURING A CALL FOR HEAT. IF THE ELECTRIC RESISTANCE HEATER FAILS TO ENERGIZE, THE UNIT CONTROLLER SHALL INDICATE ALARM.

I. FAILURE MODES

1. OUTSIDE AIR SHALL FAIL CLOSED. RETURN AND RELIEF AIR DAMPERS SHALL FAIL OPEN.

J. PROGRAMS

1. STATIC PRESSURE RESET: THE SYSTEM STATIC PRESSURE SET POINT SHALL BE RESET WITH TRIM AND RESPOND DEMAND BASED LOGIC IN ACCORDANCE WITH ASHRAE STANDARD 90.1 WITH A LOW LIMIT OF 0.35" WC. AND A HIGH LIMIT OF 2.0" WC. AS DETERMINED BY THE TEST ADJUST AND BALANCING (TAB) CONTRACTOR.

   A. WHEN THE FAN IS OFF, THE STATIC PRESSURE SETPOINT SHALL BE FROZEN AT THE INITIAL SETPOINT DETERMINED BY TAB.
   B. WHEN THE FAN IS PROVEN ON, EVERY 5 MINUTES, DECREASE THE SETPOINT BY 0.05 INCHES IF THERE IS ONE OR FEWER PRESSURE REQUESTS. IF THERE IS TWO OR MORE PRESSURE REQUESTS, INCREASE THE SETPOINT BY 0.05 INCHES.
   C. WHERE VAV TERMINAL UNIT DAMPER POSITION IS KNOWN, A PRESSURE REQUEST IS GENERATED WHEN ANY DAMPER SERVED BY THE SYSTEM IS MORE THAN 90% OPEN. WHERE VAV TERMINAL UNIT DAMPER POSITION IS UNKNOWN, A PRESSURE REQUEST IS MADE WHEN THE RATIO OF THE TERMINAL UNIT'S ACTUAL SUPPLY AIRFLOW TO SUPPLY AIRFLOW SETPOINT IS LESS THAN 90% UNTIL IT RISES TO 100%.
   D. IF A DAMPER POSITION IS AT 100% OPEN FOR MORE THAN 30 MINUTES THE TERMINAL UNIT SHALL BE LOCKED OUT OF THE POLLING AND AN ALARM SHALL BE GENERATED AT THE BAS. THIS LOCK OUT SHALL REMAIN UNTIL THE TERMINAL UNIT IS REVIEWED TO DETERMINE THE CAUSE OF THE READING AND THE LOCKOUT IS MANUALLY RELEASED. THIS TERMINAL UNIT SHALL BE TERMED A ROGUE ZONE BOX UNTIL RELEASED.

2. SUPPLY AIR TEMPERATURE RESET: THE SUPPLY AIR SET POINT SHALL BE RESET WITH TRIM AND RESPOND AIR TERMINAL UNIT DEMAND BASED LOGIC IN ACCORDANCE WITH ASHRAE STANDARD 90.1, AS FOLLOWS: THE INITIAL LEAVING AIR TEMPERATURE SHALL BE 55°F. IF THE MAXIMUM AIR TERMINAL UNIT COOLING DEMAND IS 85% OR BELOW FOR 5 MINUTES, THE LEAVING AIR TEMPERATURE SET POINT SHALL BE DECREASED 0.5°F. IF THE MAXIMUM AIR TERMINAL UNIT COOLING DEMAND IS 95% FOR 5 MINUTES, THE LEAVING AIR TEMPERATURE SET POINT SHALL BE INCREASED 0.5°F. MAXIMUM LEAVING AIR TEMPERATURE SHALL BE 60°F.

SEQUENCE - AHU-1 - DX MULTIZONE

SCALE: N.T.S.

STATE OF SOUTH CAROLINA — RMF ENGINEERING INC. CHARLESTON, SC C-00831 — REGISTERED ENGINEERS
SOUTH CAROLINA — PROFESSIONAL ENGINEER — 32947 — GREGORY TAYLOR HUDSON — 2026-07-20

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DEDICATED OUTDOOR AIR HANDLING UNIT INPUT / OUTPUT SUMMARY

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1,2,3,4,6,7,8,9	VARIABLE FREQUENCY DRIVE (FANS)								X										X		X		X					X																						X
5,10	AIRFLOW MEASURING DEVICE		X								X																																								X
7-8	VARIABLE REFRIGERANT CIRCUIT																				X		X																													X
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20	AIRFLOW MONITORING STATION		X								X																																								X
21,22	DIFFERENTIAL PRESSURE TRANSMITTER (FILTER BANK)				X																														X																X
25	FREEZESTAT	X																														X																		X
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1. REFER TO SPECIFICATIONS FOR FAN TYPE

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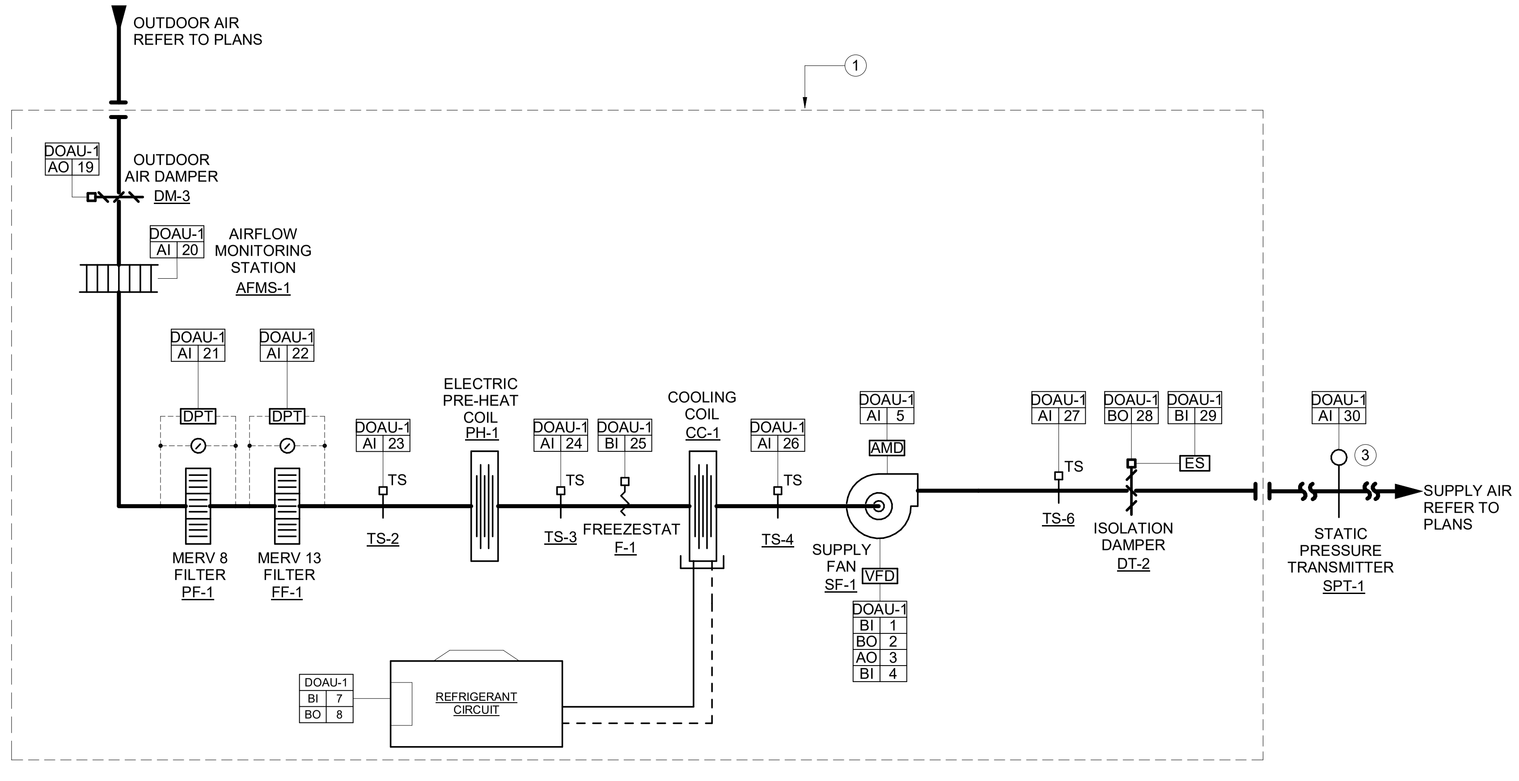
2. REFER TO COIL PIPING DETAILS FOR ADDITIONAL VALVING REQUIREMENTS.
3. STATIC PRESSURE SENSOR SHALL BE LOCATED IN THE SUPPLY DUCTWORK AT THE POINT(S) OF MINIMUM STATIC PRESSURE (TYPICALLY 2/3 DOWNSTREAM) AND THE INITIAL BALANCE SET POINT DETERMINED THROUGH TEST AND BALANCE.
4. SMOKE DETECTOR SHALL BE FURNISHED AND WIRED UNDER DIVISION 28 AND INSTALLED BY DIVISION 23.

HS - HUMIDITY SENSOR
TS - TEMPERATURE SENSOR
PF - PRE-FILTER
FF - FINAL FILTER
AMD - AIRFLOW MEASURING DEVICE
DPT - DIFFERENTIAL PRESSURE TRANSMITTER
VFD - VARIABLE FREQUENCY DRIVE
DT - DAMPER, TWO-POSTION
DM - DAMPER, MODULATING



SCHEMATIC - DOAU-1 - MULTIZONE DX
SCALE: N.T.S.

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC. CHARLESTON, SC C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
PROFESSIONAL ENGINEER
32947
2026-07-20
GREGORY TAYLOR HUDSON

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MECHANICAL SCHEMATICS AND CONTROL SEQUENCES

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY LEL
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DATE 07/20/2026
SCALE 12" = 1'-0"

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SEQUENCE OF OPERATION

PART 1 - AUTOPSY SUITE HVAC CONTROL INTENT

A. MAINTAIN CONTINUOUS VENTILATION, TEMPERATURE CONTROL, AND DIRECTIONAL AIRFLOW FOR THE AUTOPSY SUITE USING STAND-ALONE CONTROLS. SYSTEM OPERATION SHALL PRIORITIZE CONTINUOUS EXHAUST, NEGATIVE AUTOPSY ROOM PRESSURE, AND LOCAL CONTROL INTERLOCKS.
B. AUTOPSY ROOM SHALL BE MAINTAINED NEGATIVE RELATIVE TO ADJACENT SPACES AT ALL TIMES BY FIXED AIRFLOW OFFSETS VERIFIED DURING TESTING AND BALANCING.
C. SYSTEM SHALL CONSIST OF A DEDICATED OUTDOOR AIR UNIT SERVING THE AUTOPSY ROOM, EVIDENCE STORAGE ROOM, RESTROOM, LOCKER/LAUNDRY ROOM, AND ASSOCIATED SUPPORT SPACES.
D. AUTOPSY ROOM SHALL BE SERVED BY A DEDICATED TERMINAL UNIT. SUPPORT SPACES SHALL BE SERVED BY A SEPARATE TERMINAL UNIT.
E. DEDICATED EXHAUST SYSTEMS SHALL BE PROVIDED FOR THE AUTOPSY ROOM, RESTROOM, AND LOCKER/LAUNDRY ROOM AS INDICATED ON THE DRAWINGS.
F. CONTROLS SHALL BE STAND-ALONE. NO CENTRAL BUILDING AUTOMATION SYSTEM OR REMOTE BAS MONITORING IS PROVIDED.
G. HEATING AND COOLING SETPOINTS SHALL BE ADJUSTABLE THROUGH THE LOCAL THERMOSTAT, STAND-ALONE TERMINAL CONTROLLER, OR INTERNAL UNIT CONTROLLER SERVING THE EQUIPMENT.
H. HVAC SYSTEMS SHALL BE CAPABLE OF MAINTAINING SPACE TEMPERATURE SETPOINTS WITHIN 2°F PLUS OR MINUS UNDER NORMAL OPERATING CONDITIONS.

PART 2 - DEDICATED OUTDOOR AIR UNIT CONTROL

A. SYSTEM CONTROL
1. THE DEDICATED OUTDOOR AIR UNIT SHALL OPERATE CONTINUOUSLY WHENEVER THE BUILDING IS OCCUPIED OR WHENEVER THE AUTOPSY SUITE IS IN USE.
2. THE DEDICATED OUTDOOR AIR UNIT SHALL BE ENABLED THROUGH THE INTERNAL UNIT CONTROLLER OR LOCAL ENABLE SWITCH/SCHEDULE RELAY.
3. UPON ENABLING THE UNIT, THE SUPPLY FAN SHALL START, THE OUTDOOR AIR DAMPER SHALL OPEN TO ITS OPERATING POSITION, AND HEATING AND COOLING FUNCTIONS SHALL BE ENABLED.
4. VENTILATION AIR SHALL BE DELIVERED TO THE TERMINAL UNITS SERVING THE AUTOPSY SUITE.
5. A FREEZESTAT, SMOKE DETECTOR, HIGH/LOW TEMPERATURE SAFETY DEVICE, OR OTHER UNIT SAFETY DEVICE SHALL SHUT DOWN THE DEDICATED OUTDOOR AIR UNIT UPON ACTIVATION.
6. MANUAL RESET SHALL BE REQUIRED FOLLOWING A SAFETY SHUTDOWN WHERE REQUIRED BY THE EQUIPMENT MANUFACTURER.
7. UPON UNIT SHUTDOWN, THE SUPPLY FAN SHALL STOP, THE OUTDOOR AIR DAMPER SHALL CLOSE, HEATING AND COOLING DEVICES SHALL BE DISABLED, AND TERMINAL UNIT VENTILATION AIRFLOW SHALL CLOSE.

B. - OPERATING MODE SUMMARY
1. NORMAL OCCUPIED OR AUTOPSY SUITE IN-USE MODE SHALL ENABLE THE DEDICATED OUTDOOR AIR UNIT, AUTOPSY ROOM EXHAUST FAN, RESTROOM EXHAUST FAN, AND LOCKER/LAUNDRY EXHAUST FAN.
2. UNOCCUPIED MODE SHALL DISABLE THE DEDICATED OUTDOOR AIR UNIT AND ASSOCIATED EXHAUST FANS UNLESS AUTOPSY SUITE USE, OWNER PROVIDED SCHEDULE, HUMIDITY CONTROL, OR OTHER INDICATED CONDITIONS REQUIRE CONTINUED OPERATION.

PART 3 - TERMINAL UNIT TEMPERATURE CONTROL

A. AUTOPSY ROOM TERMINAL UNIT
1. THE AUTOPSY ROOM TERMINAL UNIT SHALL MAINTAIN ROOM TEMPERATURE THROUGH MODULATION OF THE SCR ELECTRIC REHEAT COIL.
2. INITIAL AUTOPSY ROOM COOLING SETPOINT SHALL BE 64°F (ADJ). INITIAL AUTOPSY ROOM HEATING SETPOINT SHALL BE 60°F ADJUSTABLE (ADJ).
3. TERMINAL UNIT AIRFLOW SHALL BE MAINTAINED AT ALL TIMES SUFFICIENT TO SATISFY VENTILATION AND PRESSURE RELATIONSHIP REQUIREMENTS.
4. MINIMUM AIRFLOW SHALL NOT BE FIELD-REDUCED BELOW THE VALUE REQUIRED TO MAINTAIN THE NEGATIVE PRESSURE RELATIONSHIP.

B. SUPPORT SPACE TERMINAL UNIT
1. THE TERMINAL UNIT SERVING THE EVIDENCE STORAGE ROOM, RESTROOM, LOCKER/LAUNDRY ROOM, AND ASSOCIATED SUPPORT SPACES SHALL MAINTAIN SPACE TEMPERATURE THROUGH MODULATION OF THE SCR CONTROLLED REHEAT COIL.
2. INITIAL SUPPORT SPACE COOLING SETPOINT SHALL BE 75°F (ADJ). INITIAL SUPPORT SPACE HEATING SETPOINT SHALL BE 65°F (ADJ).
3. TERMINAL UNIT MINIMUM AIRFLOW SHALL BE SET DURING TESTING AND BALANCING TO SUPPORT VENTILATION REQUIREMENTS WITHOUT COMPROMISING THE REQUIRED PRESSURE RELATIONSHIP OF THE AUTOPSY ROOM.

PART 4 - EXHAUST FAN CONTROL AND PRESSURE RELATIONSHIPS

A. AUTOPSY ROOM EXHAUST FAN
1. THE AUTOPSY ROOM EXHAUST FAN SHALL OPERATE CONTINUOUSLY WHENEVER THE DEDICATED OUTDOOR AIR UNIT IS OPERATING AND WHENEVER THE AUTOPSY ROOM IS IN USE.
2. THE AUTOPSY ROOM EXHAUST SYSTEM SHALL BE BALANCED TO MAINTAIN THE AUTOPSY ROOM NEGATIVE RELATIVE TO ADJACENT SPACES.
3. EXHAUST AIRFLOW SHALL EXCEED SUPPLY AIRFLOW BY THE AMOUNT INDICATED ON THE BUIDLING COMISSIONING SCHEDULE AND FINAL BALANCING REPORT.
4. WHERE FAN STATUS INDICATION IS PROVIDED, LOCAL INDICATION SHALL IDENTIFY EXHAUST FAN FAILURE AND REQUIRE MAINTENANCE INVESTIGATION.

B. ROOM PRESSURE RELATIONSHIPS
1. AIR BALANCE SHALL BE ESTABLISHED TO MAINTAIN THE FOLLOWING PRESSURE RELATIONSHIPS: AUTOPSY ROOM NEGATIVE; RESTROOM NEGATIVE; LOCKER/LAUNDRY ROOM NEGATIVE; EVIDENCE STORAGE NEUTRAL TO SLIGHTLY NEGATIVE; CORRIDOR AND ADMINISTRATIVE AREAS POSITIVE RELATIVE TO THE AUTOPSY SUITE.
2. PRESSURE RELATIONSHIPS SHALL BE ESTABLISHED THROUGH FIXED AIRFLOW OFFSETS DETERMINED DURING TESTING AND BALANCING.
3. PROVIDE A WALL-MOUNTED DIFFERENTIAL PRESSURE MONITOR AT THE AUTOPSY ROOM ENTRANCE WITH VISUAL INDICATION OF NORMAL NEGATIVE PRESSURE AND ALARM INDICATION OF NEUTRAL OR POSITIVE PRESSURE.

PART 5 - SUPPORT SPACE EXHAUST CONTROL

A. RESTROOM EXHAUST FAN
1. THE RESTROOM CEILING-MOUNTED EXHAUST FAN SHALL OPERATE CONTINUOUSLY WHENEVER THE DEDICATED OUTDOOR AIR UNIT IS OPERATING.
2. THE RESTROOM EXHAUST FAN SHALL BE INTERLOCKED WITH THE DEDICATED OUTDOOR AIR UNIT FAN STARTER OR LOCAL CONTROL RELAY.
3. WHEN THE DEDICATED OUTDOOR AIR UNIT IS OFF, THE RESTROOM EXHAUST FAN SHALL SHUT DOWN.

B. LOCKER/LAUNDRY ROOM EXHAUST FAN
1. THE LOCKER/LAUNDRY ROOM CEILING-MOUNTED EXHAUST FAN SHALL OPERATE CONTINUOUSLY WHENEVER THE DEDICATED OUTDOOR AIR UNIT IS OPERATING WITH FAN OFF-DELAY OF 15 TO 30 MINUTES ADJUSTABLE..
2. THE LOCKER/LAUNDRY ROOM EXHAUST FAN SHALL BE INTERLOCKED WITH THE DEDICATED OUTDOOR AIR UNIT FAN STARTER OR LOCAL CONTROL RELAY WITH FAN OFF-DELAY OF 15 TO 30 MINUTES ADJUSTABLE..

PART 6 - FAILURE CONDITIONS

A. UPON DEDICATED OUTDOOR AIR UNIT SHUTDOWN DUE TO SAFETY DEVICE ACTIVATION, THE SUPPLY FAN SHALL STOP, THE OUTDOOR AIR DAMPER SHALL CLOSE, HEATING AND COOLING DEVICES SHALL BE DISABLED, AND TERMINAL UNIT VENTILATION AIRFLOW SHALL CLOSE.
B. THE AUTOPSY ROOM PRESSURE MONITOR SHALL INDICATE AN ALARM CONDITION WHEN ROOM PRESSURE BECOMES NEUTRAL OR POSITIVE RELATIVE TO THE ADJACENT REFERENCE SPACE.

PART 7 - TESTING AND BALANCING REQUIREMENTS

A. TESTING AND BALANCING CONTRACTOR SHALL ADJUST ALL SUPPLY AND EXHAUST AIRFLOWS TO MAINTAIN CONTINUOUS NEGATIVE PRESSURE IN THE AUTOPSY ROOM AND TO MAINTAIN INTENDED AIRFLOW DIRECTION FROM SUPPORT SPACES TOWARD THE AUTOPSY ROOM.
B. FINAL AIRFLOWS SHALL BE DOCUMENTED IN THE BALANCING REPORT, INCLUDING DEDICATED OUTDOOR AIR UNIT AIRFLOW, TERMINAL UNIT MINIMUM AND MAXIMUM AIRFLOW, AUTOPSY ROOM SUPPLY AIRFLOW, AUTOPSY ROOM EXHAUST AIRFLOW, RESTROOM EXHAUST AIRFLOW, LOCKER/LAUNDRY EXHAUST AIRFLOW, AND OBSERVED PRESSURE RELATIONSHIPS.
C. PRESSURE RELATIONSHIPS SHALL BE VERIFIED WITH DOORS CLOSED AND UNDER TYPICAL OPERATING CONDITIONS. DOOR-OPEN RECOVERY SHALL BE OBSERVED AND DOCUMENTED WHERE PRACTICAL.

PART 9 - SUGGESTED DRAWING / CONTROLS NOTE

A. AUTOPSY ROOM SHALL REMAIN NEGATIVE RELATIVE TO ADJACENT SPACES AT ALL TIMES. PRESSURE RELATIONSHIPS SHALL BE ESTABLISHED BY FIXED AIRFLOW OFFSETS DURING TESTING AND BALANCING. DEDICATED OUTDOOR AIR UNIT, AUTOPSY EXHAUST, RESTROOM EXHAUST, AND LOCKER/LAUNDRY EXHAUST SHALL OPERATE WHENEVER THE AUTOPSY SUITE IS IN USE.
B. PROVIDE LOCAL DIFFERENTIAL PRESSURE MONITOR WITH VISUAL INDICATION AT THE AUTOPSY ROOM ENTRANCE. DOCUMENT FINAL AIRFLOWS AND PRESSURE RELATIONSHIPS IN THE BALANCING REPORT.

SEQUENCE - DOAU-1 - DX MULTIZONE, W/ ELECTRIC PREHEAT

SCALE: N.T.S.

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MECHANICAL SCHEMATICS AND CONTROL SEQUENCES

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SEQUENCE OF OPERATION

PART 1 - GENERAL

A. AUTOPSY CONTROL SYSTEM (ACS) ROOM CONTROLLER SHALL SIMULTANEOUSLY MONITOR AND CONTROL AIR BALANCE, VENTILATION AND TEMPERATURE IN THE LABORATORY.
B. THE ACS ROOM CONTROLLER SHALL BE CALIBRATED AND THOROUGHLY LOOP TUNED TO PROVIDE STABLE SUPPLY AND EXHAUST AIR TERMINAL AIRFLOW AND SPACE PRESSURIZATION CONTROL. AIRFLOW OFFSET SHALL BE CONSISTENT WITHOUT VARIATION AND SPACE TEMPERATURE SHALL BE STABLE WITHOUT FLUCTUATIONS BETWEEN THE DEAD BAND LIMITS.
C. ACS ROOM CONTROLLER SHALL MODULATE THE SUPPLY AND GENERAL EXHAUST TO MAINTAIN TEMPERATURE CONTROL, VENTILATION (ACH) AND PRESSURE INDEPENDENT CONSTANT FLOW OFFSET.
D. THE VOLUMETRIC FLOW RATE OF SUPPLY AND EXHAUST AIR INTO AND OUT OF THE AREAS AS DEFINED ON THE AIR BALANCE PART PLANS SHALL BE AUTOMATICALLY MAINTAINED REGARDLESS OF FLUCTUATIONS IN STATIC PRESSURE; I.E. FLOW RATES SHALL BE DETERMINED BASED ON TERMINAL UNIT SENSOR READINGS AND THE POSITIONS OF AIR VOLUME REGULATORS IN THE SUPPLY AND EXHAUST TERMINAL UNIT SHALL BE ADJUSTED AUTOMATICALLY TO MAINTAIN THE SET POINT FLOW RATES.
E. THE ACS SHALL DETERMINE AND OPERATE THE AUTOPSY AREA ON AN OCCUPIED/UNOCCUPIED SCHEDULE WITH A 365 DAY/24 HOUR GRAPHIC INTERFACE SCHEDULE PROGRAM. DURING THE OCCUPIED SCHEDULE, OR PERIODS DURING THE UNOCCUPIED SCHEDULE WHEN THE LABORATORY IS OCCUPIED (AS DETECTED BY ROOM OCCUPANCY SENSOR), THE AUTOPSY EXHAUST AIR CHANGE RATE SHALL BE A MINIMUM OF 20 ACH. DURING THE UNOCCUPIED SCHEDULE WHEN THE LABORATORY IS VACANT, THE LABORATORY EXHAUST AIR CHANGE RATE SHALL BE A MINIMUM OF 20 ACH.
F. DAILY AUTOMATED TERMINAL UNIT CALIBRATION SHALL OCCUR WITH NO INTERRUPTION OF AIRFLOW OR LOSS OF PREDETERMINED AIRFLOW OFFSET. PROVIDE AUTO-ZERO MODULES FOR TERMINAL UNITS TO ACCOMMODATE THIS PROVISION.

PART 2 - AIR BALANCE AND PRESSURE CONTROL

A. THE ACS ROOM CONTROLLER SHALL CONTINUOUSLY TOTALIZE ALL ROOM EXHAUST AIRFLOWS, AS APPLICABLE TO INDIVIDUAL ROOMS, AS THE TOTAL ROOM EXHAUST AIRFLOW. THE LABORATORY ROOM CONTROLLER SHALL ALSO CONTINUOUSLY MEASURE THE ROOM SUPPLY AIRFLOW.
B. THE ACS ROOM CONTROLLER SHALL CONTINUOUSLY CONTROL THE ROOM SUPPLY AIRFLOW BETWEEN ITS MINIMUM AND MAXIMUM SETPOINTS TO SATISFY SPACE TEMPERTAURE SETPOINTS, AND SHALL CONTINUOUSLY CONTROL THE ROOM GENERAL EXHAUST AIRFLOW TO MAINTAIN THE DIFFERENTIAL OFFSET AIRFLOW BETWEEN THE TOTAL ROOM EXHAUST AIRFLOW AND THE TOTAL ROOM SUPPLY AIRFLOW AS INDICATED ON THE AIR BALANCE PART PLANS.
C. FOR NEGATIVELY PRESSURIZED ROOMS THE TOTAL ROOM SUPPLY AIRFLOW SHALL ALWAYS BE MAINTAINED AT A LOWER VALUE THAN THE TOTAL ROOM EXHAUST AIRFLOW. THE DIFFERENTIAL OFFSET AIRFLOW, EQUAL TO WHAT IS REQUIRED TO MAINTAIN THE MINIMUM NEGATIVE PRESSURE SET POINT OF 0.015 INCHES W.G., SHALL BE MAINTAINED REGARDLESS OF ANY CHANGE IN FLOW OR STATIC PRESSURE.
D. INITIAL DIFFERENTIAL OFFSET AIRFLOW VALUES ARE INDICATED ON THE AIR BALANCE DIAGRAM. FINAL DIFFERENTIAL OFFSET AIRFLOW VALUES SHALL BE ESTABLISHED DURING SYSTEM AIR BALANCE STARTUP AND TEST AND BALANCE, AND THEN CONFIRMED THROUGH COMMISSIONING. FINAL DIFFERENTIAL OFFSET AIRFLOW VALUES THAT ARE NOT WITHIN 10% OF THE INITIAL VALUES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
E. TWICE A DAY, THE ACS ROOM CONTROLLER SHALL RESET EACH DIFFERENTIAL OFFSET AIRFLOW VALUE TO MAINTAIN THE DIFFERENTIAL PRESSURE AT SETPOINT:
   1. IF THE ROOM PRESSURE DIFFERENTIAL IS ABOVE SETPOINT (TOO NEGATIVE) FOR A CONTINUOUS PERIOD OF 15 MINUTES, THE ACS CONTROLLER SHALL DECREASE THE DIFFERENTIAL OFFSET AIRFLOW VALUE BY SLOWLY AND INCREMENTALLY MODULATING THE SUPPLY AIR TERMINAL TOWARD ITS MAXIMUM SETPOINT UNTIL ROOM PRESSURE SETPOINT IS REACHED.
   2. IF THE ROOM PRESSURE DIFFERENTIAL IS BELOW SETPOINT (NOT NEGATIVE ENOUGH OR POSITVE) FOR A CONTINOUS PERIOD OF 15 MINUTES, THE LCS CONTROLLER INCREASE THE DIFFERENTIAL OFFSET AIRFLOW VALUE BY SLOWLY AND INCREMENTALLY MODULATING THE GENERAL EXHAUST AIR TERMINAL TOWARD ITS MAXIMUM SETPOINT UNTIL ROOM PRESSURE SETPOINT IS REACHED.
   3. THE ACS SHALL ALLOW FOR DIFFERENTIAL PRESSURE STABILZATION BETWEEN ADJUSTMENTS TO AVOID HUNTING.

PART 3 - VENTILATION CONTROL

A. THE ACS ROOM CONTROLLER SHALL MAINTAIN THE SUPPLY AIR VOLUME AT OR ABOVE ITS MINIMUM SETPOINT.

PART 4 - TEMPERATURE CONTROL

A. THE ACS CONTROLLER SHALL CONTINUOUSLY MEASURE THE TEMPERATURE IN THE ROOM BY MEANS OF THE ROOM TEMPERATURE SENSOR.
B. THE ROOM TEMPERATURE SENSOR, THROUGH THE ACS ROOM CONTROLLER AND BAS, SHALL MODULATE THE SUPPLY AIR VOLUME REGULATOR BETWEEN ITS MINIMUM AND MAXIMUM SETPOINTS TO MAINTAIN THE OCCUPIED COOLING SETPOINT. THE ROOM GENERAL EXHAUST AIRFLOW SHALL ALSO MODULATE AS REQUIRED TO MAINTAIN THE DIFFERENTIAL OFFSET AIRFLOW CFM.
C. ON A RISE IN SPACE TEMPERATURE ABOVE SETPOINT, THE SUPPLY AIR VOLUME REGULATOR SHALL MODULATE TOWARD IT'S MAXIMUM POSITION SET POINT.
D. ON A DROP IN SPACE TEMPERATURE BELOW COOLING SET POINT, THE SUPPLY AIR VOLUME REGULATOR SHALL MODULATE TOWARD IT'S MINIMUM POSITION SET POINT.
E. WHEN THE AIR VOLUME REGULATOR REACHES ITS MINIMUM POSITION SET POINT AND THE SPACE TEMPERATURE FALLS BELOW SETPOINT THE REHEAT COIL VALVE SHALL SLOWLY MODULATE OPEN TO MAINTAIN SPACE TEMPERATURE SETPOINT.
F. ON A RISE IN SPACE TEMPERATURE, THE REVERSE SHALL OCCUR.

PART 5 - EMERGENCY OPERATION AND ALARMS

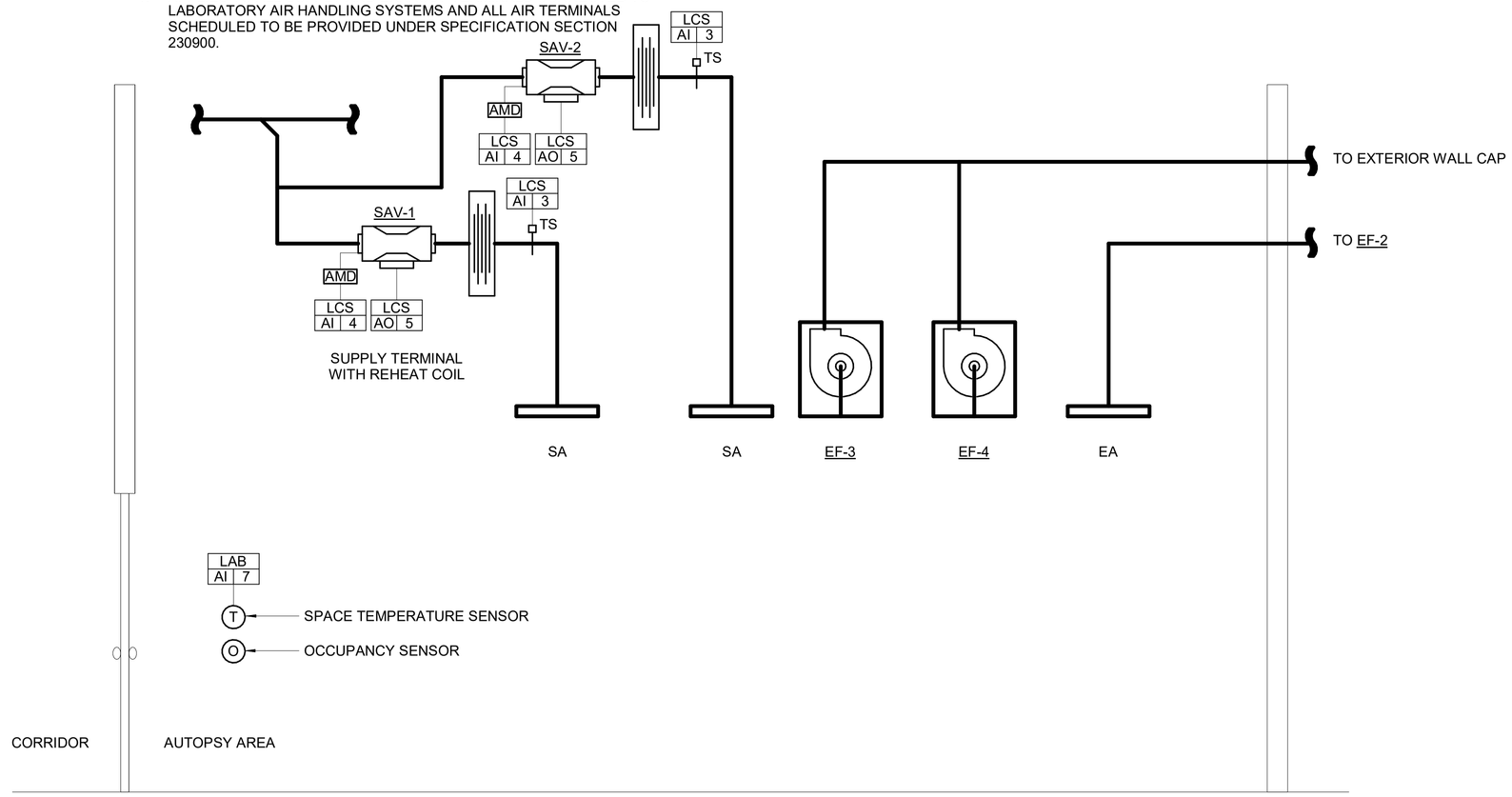
A. AN ALARM THROUGH THE ACS SHALL BE ANNUNCIATED IF THE AUTOPSY AREA CONSTANT DIFFERENTIAL OFFSET AIRFLOW OR MINIMUM DIFFERENTIAL PRESSURE IS NOT MAINTAINED FOR A PERIOD OF 30 MINUTES.
B. ON A LOSS OF NORMAL ELECTRIC POWER TO THE BUILDING, THE LABORATORY GENERAL EXHAUST TERMINAL VALVES SHALL CONTINUE TO OPERATE AND SHALL MAINTAIN A MINIMUM OF 10 ACH. THE LABORATORY SUPPLY AIR TERMINALS SHALL FAIL CLOSED.

SCHEMATIC - LABORATORY CONTROL - LAB SUPPLY AND GENERAL EXHAUST - AUTOPSY AREA

SCALE: N.T.S.

GENERAL NOTES:

1. APPLIES TO ALL SUPPLY AND EXHAUST TERMINALS CONNECTED TO LABORATORY AIR HANDLING SYSTEMS AND ALL AIR TERMINALS SCHEDULED TO BE PROVIDED UNDER SPECIFICATION SECTION 230900.



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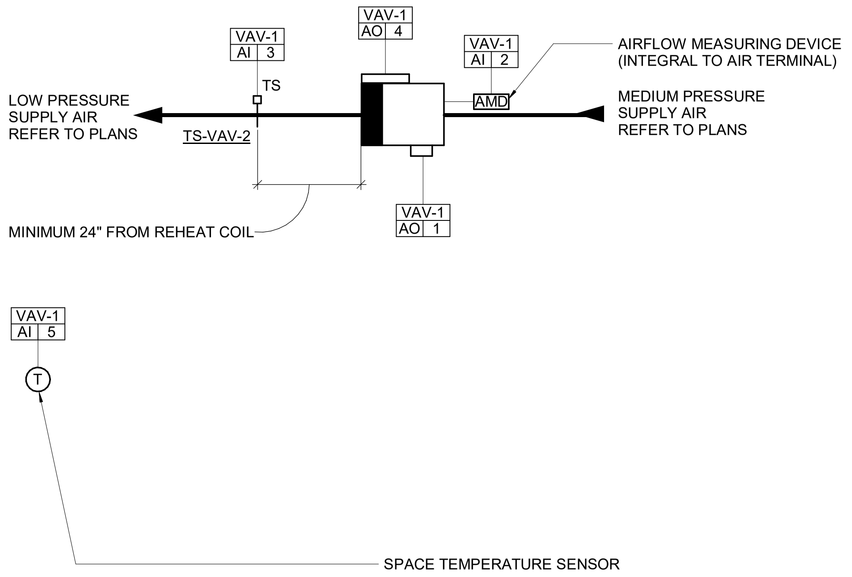


SEQUENCE OF OPERATION

PART 1 - GENERAL

A. THE VARIABLE VOLUME SUPPLY AIR TERMINAL UNIT SHALL OPERATE ON AN OCCUPIED/UNOCCUPIED SCHEDULE.
B. THE MINIMUM AND MAXIMUM HEATING AIRFLOW SETPOINTS SHALL BE COORDINATED WITH THE APPROVED TERMINAL UNIT MANUFACTURER TO ENSURE ACCEPTABLE AIRFLOWS THROUGH ENERGIZED ELECTRIC COILS THROUGHOUT THE ENTIRE OPERATING RANGE.
C. OCCUPIED MODE

1. WHEN THE OCCUPIED MODE IS INITIATED, THE SUPPLY AIR TERMINAL AIR VOLUME REGULATOR SHALL INITIALLY OPEN TO ITS MINIMUM POSITION AND THE ELECTRIC RESISTANCE HEATING COIL SHALL BE DEENERGZED.
2. ON A RISE IN SPACE TEMPERATURE ABOVE THE OCCUPIED SETPOINT, THE AIR VOLUME REGULATOR SHALL MODULATE TOWARD IT'S MAXIMUM POSITION SET POINT TO MAINTAIN SPACE TEMPERATURE SETPOINT.
3. ON A DROP IN SPACE TEMPERATURE BELOW THE OCCUPIED SET POINT, THE AIR VOLUME REGULATOR SHALL MODULATE TOWARD IT'S MINIMUM POSITION SET POINT TO MAINTAIN SPACE TEMPERATURE SETPOINT.
4. WHEN THE AIR VOLUME REGULATOR REACHES ITS MINIMUM POSITION SET POINT AND THE SPACE TEMPERATURE FALLS BELOW SETPOINT THE ELECTRIC RESISTANCE HEATING COIL SHALL ENERGIZE AND MODULATE (VIA SCR CONTROL) TO MAINTAIN SPACE TEMPERATURE SETPOINT.
5. ON A CONTINUED FALL IN SPACE TEMPERATURE THE ELECTRIC RESISTANCE HEATING COIL SHALL CONTINUE TO MODULATE UNTIL THE DISCHARGE AIR TEMPERATURE REACHES THE DESIGN MAXIMUM OF 84°F.
6. ON A FURTHER DROP IN SPACE TEMPERATURE WITH THE DISCHARGE AIR TEMPERATURE AT ITS DESIGN MAXIMUM, THE AIR VOLUME REGULATOR SHALL MODULATE FROM ITS MINIMUM AIRFLOW TO ITS MAXIMUM HEATING AIRFLOW WHILE MAINTAINING THE MAXIMUM DISCHARGE AIR TEMPERATURE OF 84°F.
7. ON A RISE IN SPACE TEMPERATURE, THE REVERSE SHALL OCCUR.
8. WHEN THE SPACE TEMPERATURE IS BETWEEN ITS OCCUPIED COOLING AND HEATING SETPOINTS THE AIR VOLUME REGULATOR SHALL BE AT ITS MINIMUM POSITION SET POINT AND THE ELECTRIC RESISTANCE HEATING COIL SHALL BE DEEENERGIZED.

D. UNOCCUPIED MODE

1. WHEN THE UNOCCUPIED MODE IS INITIATED, THE AIR VOLUME REGULATOR SHALL CLOSE TO MINIMUM POSITION AND THE ELECTRIC RESISTANCE HEATING COIL SHALL BE DEENERGIZED.
2. THE UNOCCUPIED SEQUENCE OF OPERATION SHALL BE THE SAME AS THE OCCUPIED SEQUENCE OF OPERATION, CONTROLLING TO THE UNOCCUPIED SETPOINTS.
3. WHEN THE SPACE TEMPERATURE IS BETWEEN ITS UNOCCUPIED COOLING AND HEATING SETPOINTS THE AIR VOLUME REGULATOR SHALL BE AT ITS MINIMUM POSITION SET POINT AND THE ELECTRIC RESISTANCE HEATING COIL SHALL BE DEEENERGIZED.

E. WARM-UP MODE

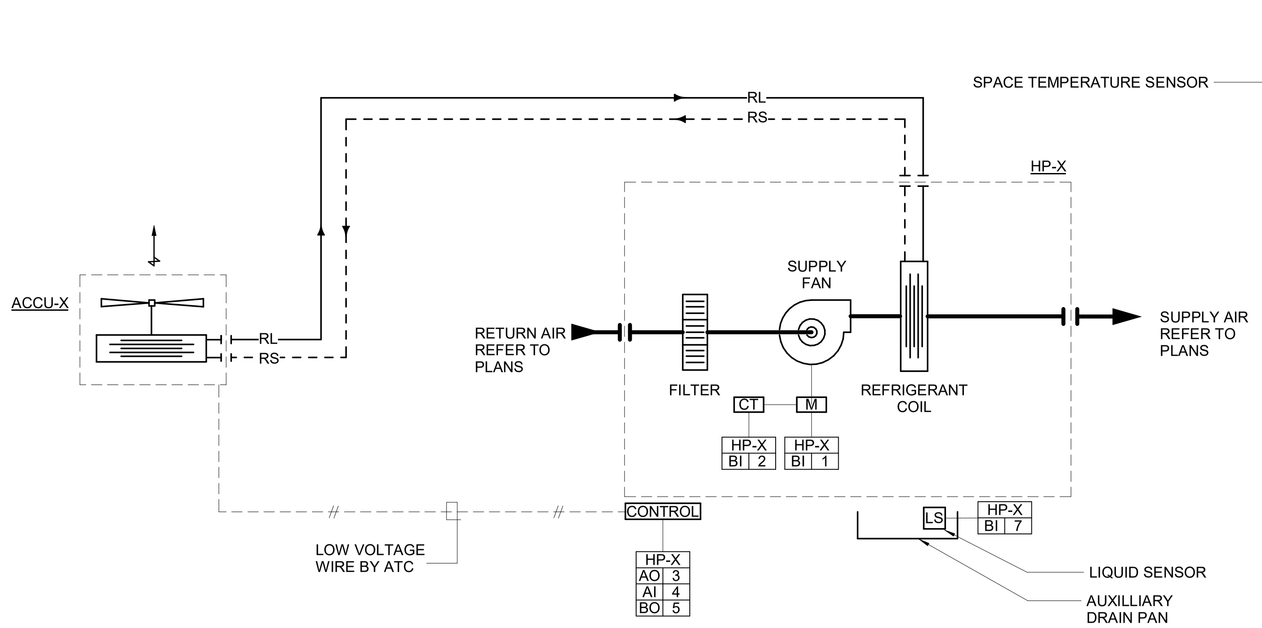
1. THE AIR VOLUME REGULATOR SHALL BE OPEN TO MAXIMUM HEATING POSITION AND THE ELECTRIC RESISTANCE HEATING COIL SHALL ENERGIZE AND MODULATE (VIA SCR CONTROL) TO MAINTAIN THE OCCUPIED ROOM TEMPERATURE SET POINT.

F. COOL-DOWN MODE

1. THE ELECTRIC RESISTANCE HEATING COIL SHALL BE DEENERGIZED. THE AIR VOLUME REGULATOR SHALL INITIALLY BE OPEN TO MAXIMUM COOLING POSITION AND SHALL MODULATE TO MAINTAIN THE OCCUPIED ROOM TEMPERATURE SET POINT.

SCHEMATIC - VARIABLE AIR VOLUME SUPPLY AIR TERMINAL UNIT WITH ELECTRIC REHEAT

SCALE: N.T.S.



SEQUENCE OF OPERATION

PART 1 - GENERAL

A. SYSTEM CONTROL

1. THE INDOOR FAN COIL UNIT AND OUTDOOR CONDENSING UNIT SHALL BE MANUALLY INDEXED TO THE AUTOMATIC MODE AT ITS STARTER H-O-A SWITCH.
2. THE SYSTEM SHALL BE ENERGIZED AND DEENERGIZED VIA REMOTE SIGNAL FROM THE THERMOSTAT.
3. WHEN THE UNIT IS DEENERGIZED, ALL CONTROLS SHALL RETURN TO THEIR NORMAL POSITIONS READY FOR RESTARTING.

B. TEMPERATURE CONTROL

1. DURING OCCUPIED MODE THE FAN COIL UNIT INTERNAL CONTROLS SHALL ENERGIZE/DEENERGIZE THE REFRIGERANT CIRCUIT TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SET POINT AS SEEN BY THE SPACE TEMPERATURE SENSOR.

C. ALARMS & FAILURE MODES

1. A FAILURE OF THE FAN COIL UNIT SUPPLY FAN, AS SENSED BY ITS CURRENT TRANSDUCER, ALARMED TO THE UNIT CONTROLLER. UPON FAILURE, THE UNIT SHALL INDICATE ALARM, DEENERGIZE THE UNIT AND RETURN ALL CONTROLS TO THEIR NORMAL POSITION.
2. PROVIDE A FLOAT SWITCH/WATER LEVEL SENSOR IN HIGH POINT OF CONDENSATE DRAIN PAN. WHEN ACTIVATED, FLOAT SWITCH SHALL DISABLE THE FAN COIL UNIT AND ALARM THE LOCAL ALARM. COORDINATE WITH EQUIPMENT MANUFACTURER AND PROVIDE FLOAT SWITCH/WATER LEVEL SENSOR FOR ALL SCHEDULED FAN COIL UNITS.

SCHEMATIC - SPLIT SYSTEM AIR-CONDITIONER

SCALE: N.T.S.

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC.
CHARLESTON, SC
C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
PROFESSIONAL
32947
ENGINEER
GREGORY TAYLOR HUDSON
2026-07-20

SEALS

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1643 MEANS STREET
CHARLESTON, SC 29412
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MECHANICAL SCHEMATICS AND CONTROL SEQUENCES

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY LEL
CHECKED BY GTH
DATE 07/20/2026
SCALE 12" = 1'-0"

M305

7/20/2026 6:05:14 PM

SEQUENCE OF OPERATION

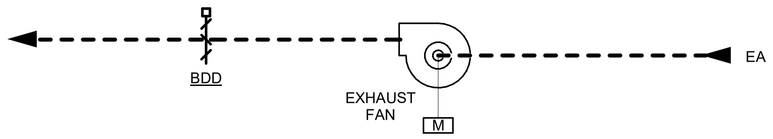
PART 1 - GENERAL

A. SYSTEM CONTROL

1. EXHAUST FAN SHALL BE MANUALLY INDEXED TO THE AUTOMATIC MODE AT ITS STARTER H-O-A SWITCH.
2. THE EXHAUST FAN SHALL BE ENERGIZED VIA OCCUPIED AND UNOCCUPIED SCHEDULE WITH A 365 DAY/24 HOUR GRAPHIC INTERFACE SCHEDULE PROGRAM.
3. WHEN ENERGIZED, EXHAUST FAN SHALL START AND RUN CONTINUOUSLY AFTER ISOLATION DAMPER HAS BEEN PROVEN OPEN.
4. WHEN THE EXHAUST FAN IS DEENERGIZED, ALL CONTROLS SHALL RETURN TO THEIR NORMAL POSITION READY FOR RESTARTING. THE EXHAUST FAN SHALL DEENERGIZE AND, AFTER AN ADJUSTABLE INTERVAL, ISOLATION DAMPER SHALL CLOSE.

B. ALARMS & FAILURE MODES

1. A FAILURE OF THE EXHAUST FAN, AS SENSED BY ITS RESPECTIVE CURRENT TRANSDUCER, SHALL BE ALARMED TO A LOCAL ALARM.
2. A FAILURE OF THE ISOLATION DAMPER THAT IS REQUIRED TO BE PROVEN OPEN FOR NORMAL OPERATION SHALL BE ALARMED TO THE LOCAL ALARM. UPON SENDING FAILURE, THE EXHAUST FAN SHALL BE DISABLED, AND RETURN ALL CONTROLS TO THEIR NORMAL POSITION.



SCHEMATIC - GENERAL EXHAUST FAN (EF-1)
SCALE: N.T.S.

SEQUENCE OF OPERATION

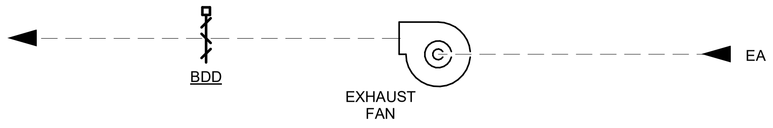
PART 1 - GENERAL

A. SYSTEM CONTROL

1. EXHAUST FAN SHALL BE MANUALLY INDEXED TO THE AUTOMATIC MODE AT ITS STARTER H-O-A SWITCH.
2. THE EXHAUST FAN SHALL BE ENERGIZED VIA LIGHT SWITCH WITHIN THE ROOM VIA RELAY. WHEN THE FAN IS ENERGIZED, THE ISOLATION DAMPER SHALL FULLY BE OPEN. THE EXHAUST FAN SHALL START AND RUN CONTINUOUSLY AFTER THE ISOLATION DAMPERS HAVE BEEN PROVEN OPEN.
3. AFTER THE LIGHTS IN THE ROOM HAVE BEEN DE-ENERGIZED, THE EXHAUST FAN SHALL DE-ENERGIZE, AND AFTER AN ADJUSTABLE INTERVAL, ISOLATION DAMPER SHALL CLOSE. ALL CONTROLS SHALL RETURN TO THEIR NORMAL POSITION READY FOR RESTARTING.

B. ALARMS & FAILURE MODES

1. A FAILURE OF THE EXHAUST FAN, AS SENSED BY ITS RESPECTIVE CURRENT TRANSDUCER, SHALL BE ALARMED. UPON SENSING FAILURE, DISABLE THE FAILED FAN.
2. A FAILURE OF AN ISOLATION DAMPER THAT IS REQUIRED TO BE PROVEN OPEN FOR NORMAL OPERATION SHALL BE ALARMED. UPON SENDING FAILURE, DISABLE THE VENTILATION FAN, AND RETURN ALL CONTROLS TO THEIR NORMAL POSITION.

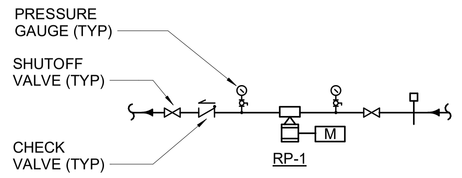


SCHEMATIC - GENERAL EXHAUST FAN (EF-3,4)
SCALE: N.T.S.

SEQUENCE OF OPERATION

A. SYSTEM CONTROL

1. DOMESTIC HOT WATER RECIRCULATION PUMP SHALL OPERATE ON AN OCCUPIED/UNOCCUPIED SCHEDULE AND SHALL BE TEMPERATURE CONTROLLED DURING THE OCCUPIED SCHEDULE.
2. THE PUMP TIMER RELAY SHALL AUTOMATICALLY TURN THE PUMP OFF DURING THE UNOCCUPIED PERIOD (ADJ) AND ON DURING THE OCCUPIED PERIOD (ADJ). THE PUMP SHALL TURN ON 30-MINUTES PRIOR TO THE BUILDING OCCUPIED SCHEDULE.
3. DURING THE OCCUPIED PERIOD THE TEMPERATURE SENSOR, SHALL ENERGIZE THE PUMP WHEN THE TEMPERATURE IN THE RETURN LINE HAS REACHED THE LOWER LIMIT OF THE TEMPERATURE SENSOR, AND DEENERGIZE THE PUMP WHEN THE TEMPERATURE IN THE RETURN LINE HAS REACHED THE UPPER LIMIT OF THE TEMPERATURE SENSOR.
4. THE UPPER LIMIT FOR THE RECIRCULATION PUMP SHALL BE 120°F (ADJ) AND THE LOWER LIMIT SHALL BE 60°F (ADJ).



SCHEMATIC - HOT WATER RECIRCULATION PUMP
SCALE: N.T.S.

SEQUENCE OF OPERATION

A. THE BUILDING AUTOMATION SYSTEM (BAS) SHALL MONITOR THE TEMPERATURE FOR WALK-IN COOLER.

1. UPON A DETECTION OF SPACE TEMPERATURE CONDITIONS BELOW THE LOW LIMIT SETPOINT OR ABOVE THE HIGH LIMIT SETPOINT THE UNIT SHALL PROVIDE AN AUDIBLE AND VISUAL ALARM.

B. UPON ALARM, AN EMAIL, TEXT AND/OR CELLULAR NOTIFICATIONS SHALL BE SENT TO OWNER DEFINED PERSONNEL. DURING PROGRAMMING, THE OWNER SHALL PROVIDE THE NECESSARY CONTACT INFORMATION.

SCHEMATIC - HIGH AND LOW TEMPERATURE ALARMS - WALK IN COOLER
SCALE: N.T.S.

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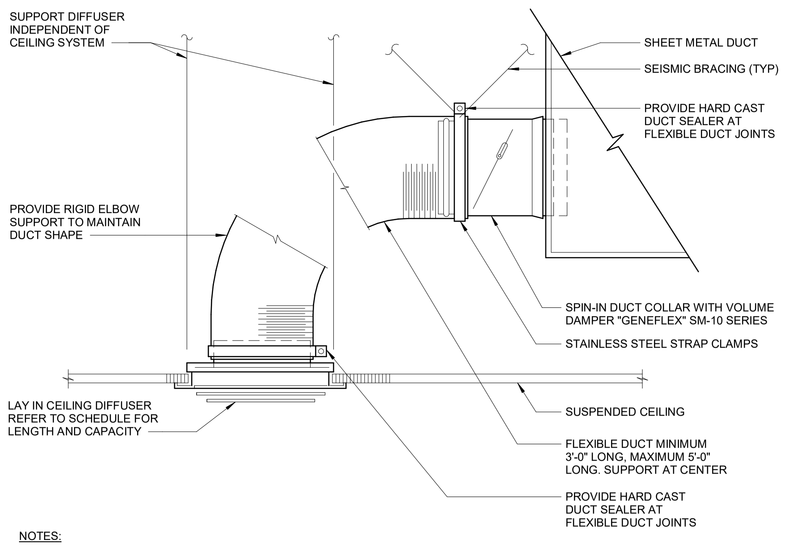
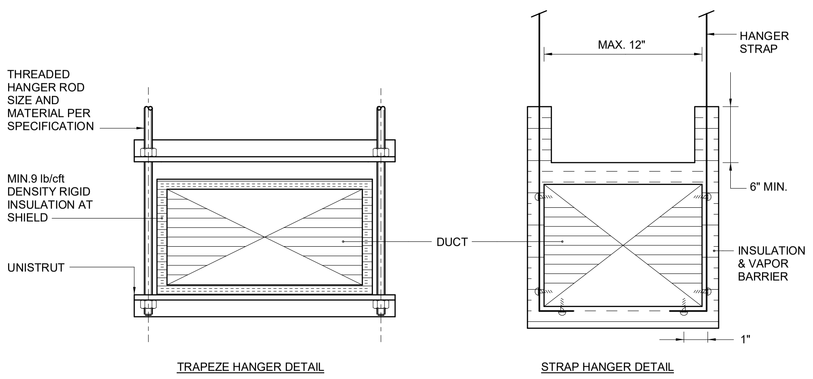


NOTES:

1. DUCT INSULATION SHALL BE PROVIDED AS SPECIFIED.
2. PROVIDE ADDITIONAL ROUND, RIGID SHEET METAL DUCTWORK AS REQUIRED TO LIMIT FLEXIBLE DUCT LENGTH TO 6'-0" MAXIMUM.
3. MAXIMUM SAG 1/2" PER FOOT.
4. PROVIDE SEISMIC SWAY BRACING FOR ALL DUCTWORK AND HANGERS PER THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
5. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON DUCTWORK SUPPORT ASSEMBLIES.

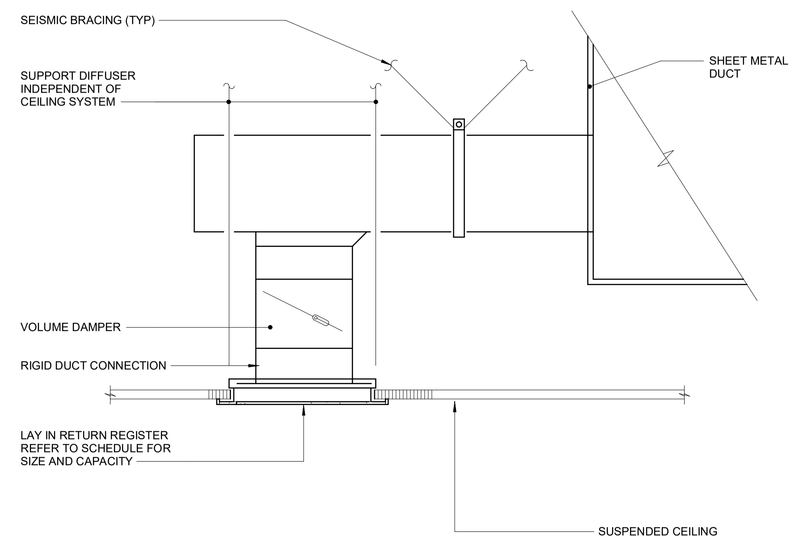
1 DETAIL - CEILING DIFFUSER BRANCH DUCTS
SCALE: N.T.S.



NOTES:

1. TRAPEZE HANGERS SHALL BE PROVIDED FOR ALL DUCT WORK. TRAPEZE HANGERS CANNOT BE USED FOR BRANCH DUCT WORK 12" IN WIDTH AND SHORTER REFER TO STRAP HANGER DETAIL.
2. SUPPORTS SHALL BE SPACED AND SIZED AS PER SPECIFICATIONS.
3. RIGID INSULATION SHALL EXTEND MINIMUM OF 3" BEYOND STRUT ON BOTH SIDES. MAINTAIN VAPOR BARRIER ACROSS STRUT.

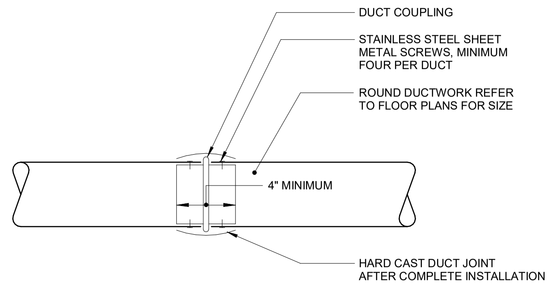
2 DETAIL - DUCT SUPPORT
SCALE: N.T.S.



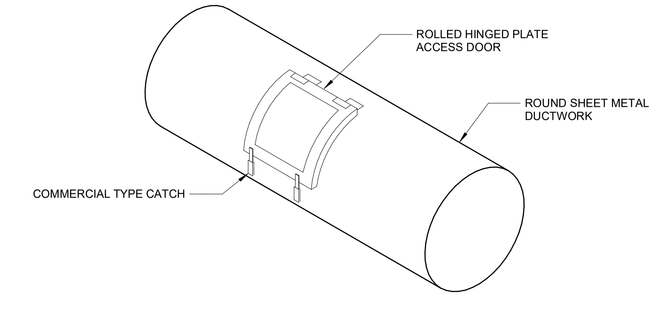
NOTES:

1. PROVIDE SEISMIC SWAY BRACING FOR ALL DUCTWORK AND HANGERS PER THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
2. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON DUCTWORK SUPPORT ASSEMBLIES.

3 DETAIL - EXHAUST AIR REGISTER BRANCH DUCT
SCALE: N.T.S.



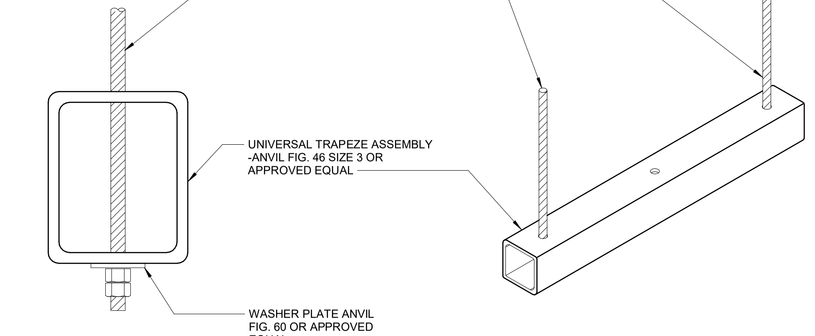
4 DETAIL - ROUND DUCT JOINT
SCALE: N.T.S.



NOTES:

1. CONSTRUCTION AND AIRTIGHTNESS SHALL BE SUITABLE FOR THE DUCT PRESSURE CLASS USED.

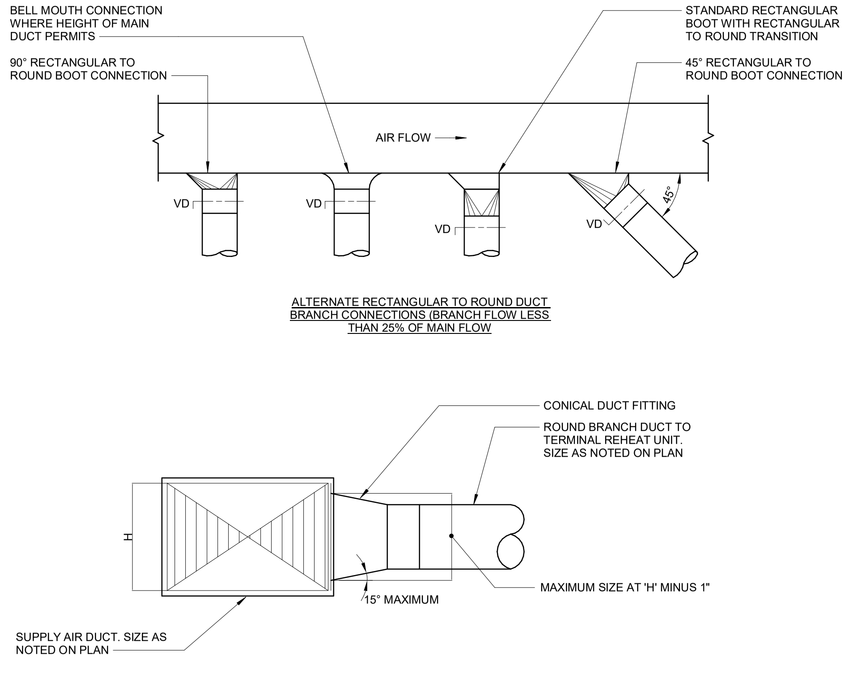
5 DETAIL - ROUND DUCT ACCESS DOOR
SCALE: N.T.S.



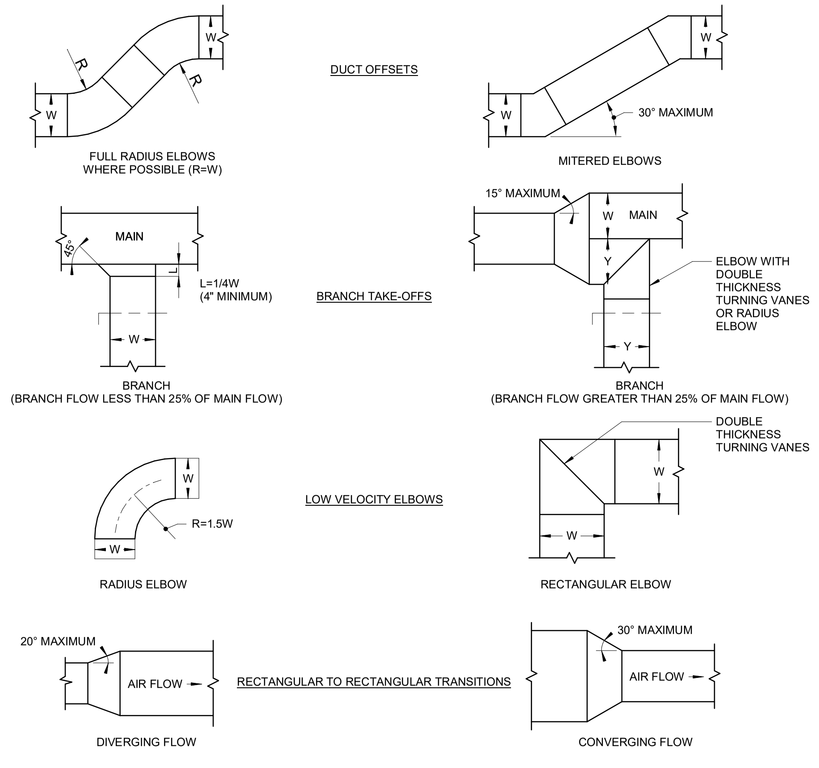
NOTES:

1. FOR NON INSULATED PIPES, PIPE SHALL REST DIRECTLY ON TRAPEZE ASSEMBLY.
2. FOR INSULATED PIPES, PIPE SHALL HAVE HIGH DENSITY STRUCTURAL INSERT AND PIPE SHIELD RESTING ON TRAPEZE ASSEMBLY.

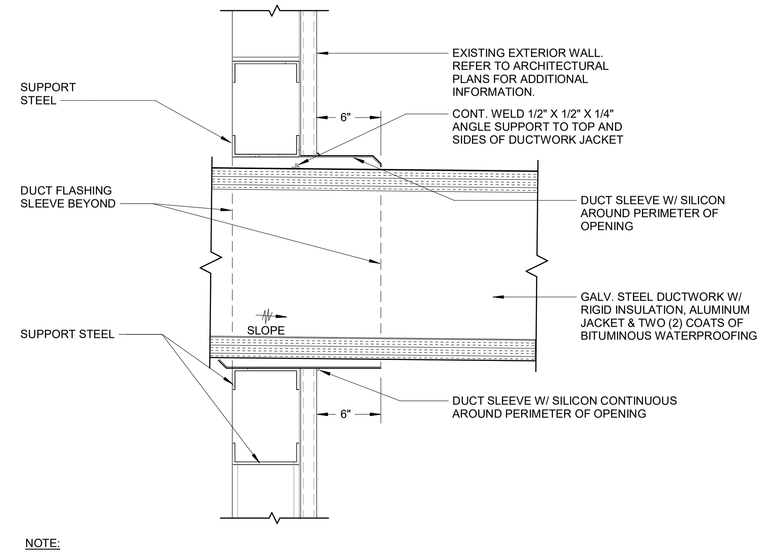
6 DETAIL - TRAPEZE HANGER
SCALE: N.T.S.



7 DETAIL - DUCT TRANSITION FITTINGS
SCALE: N.T.S.



8 DETAIL - EXTERIOR WALL DUCT PENETRATION
SCALE: N.T.S.



NOTE:

1. EXTERIOR DUCTWORK SHALL SLOPE AWAY FROM BUILDING, TOWARDS MECHANICAL EQUIPMENT.

STATE OF SOUTH CAROLINA — RMF ENGINEERING INC. CHARLESTON, SC C-00831 — REGISTERED ENGINEERS

SOUTH CAROLINA PROFESSIONAL ENGINEER 32947 GREGORY TAYLOR HUDSON 2026-07-20

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MECHANICAL DETAILS

SHEET NAME

PROJECT NUMBER	03240069.A0
DRAWN BY	LEL
CHECKED BY	GTH
DATE	07/20/2026
SCALE	12" = 1'-0"

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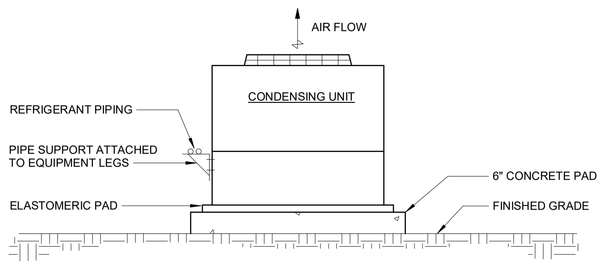
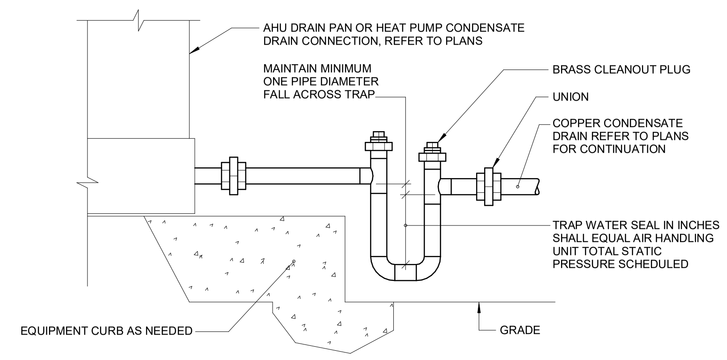
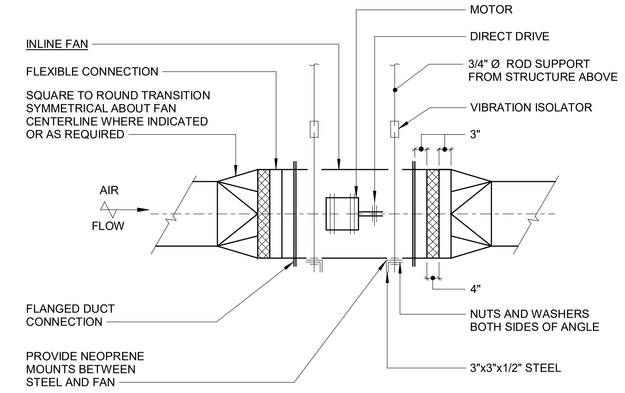


1 DETAIL - AIR COOLED CONDENSING UNIT ON GRADE
SCALE: N.T.S.



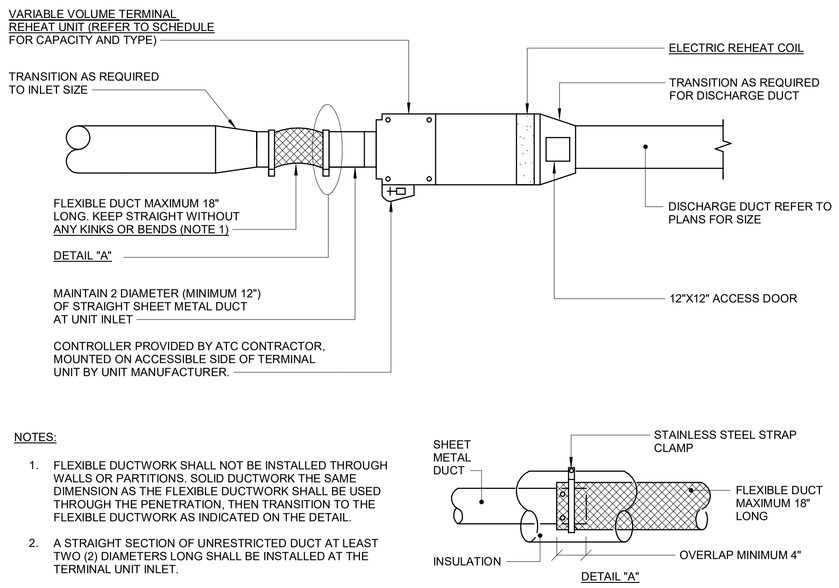
2 DETAIL - COIL CONDENSATE (CONCRETE CURB)
SCALE: N.T.S.



NOTE:

1. PROVIDE FLEXIBLE CONNECTIONS BEFORE OR AFTER TRANSITIONS AS INDICATED ON THE PLANS.

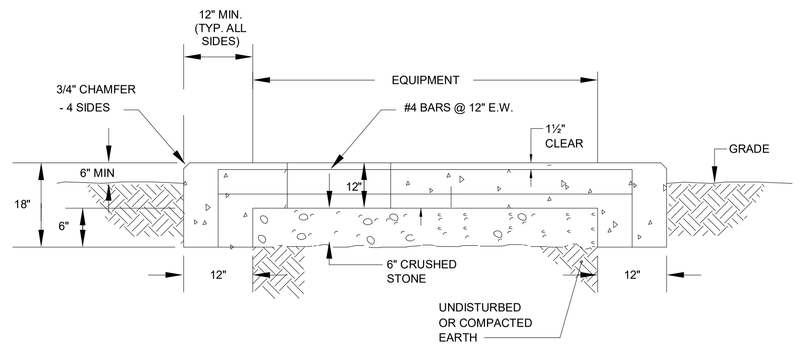
3 DETAIL - INLINE FAN (EF-2)
SCALE: N.T.S.



NOTES:

1. FLEXIBLE DUCTWORK SHALL NOT BE INSTALLED THROUGH WALLS OR PARTITIONS. SOLID DUCTWORK THE SAME DIMENSION AS THE FLEXIBLE DUCTWORK SHALL BE USED THROUGH THE PENETRATION, THEN TRANSITION TO THE FLEXIBLE DUCTWORK AS INDICATED ON THE DETAIL.
2. A STRAIGHT SECTION OF UNRESTRICTED DUCT AT LEAST TWO (2) DIAMETERS LONG SHALL BE INSTALLED AT THE TERMINAL UNIT INLET.

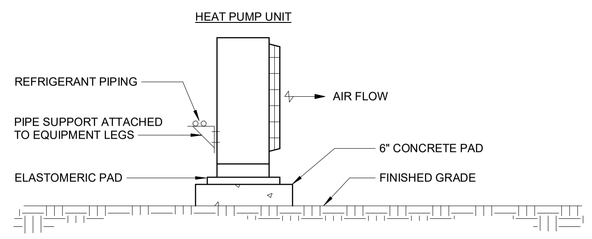
4 DETAIL - VARIABLE AIR VOLUME TERMINAL REHEAT UNIT
SCALE: N.T.S.



NOTES:

1. CONTRACTOR SHALL VERIFY PAD DIMENSIONS WITH EQUIPMENT PRIOR TO CONSTRUCTION OF PAD.

5 DETAIL - MECHANICAL EQUIPMENT PAD
SCALE: N.T.S.



6 DETAIL - AIR COOLED HEAT PUMP UNIT ON GRADE
SCALE: N.T.S.

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843.577.6073

MECHANICAL DETAILS

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY LEL
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SCALE 12" = 1'-0"

M401

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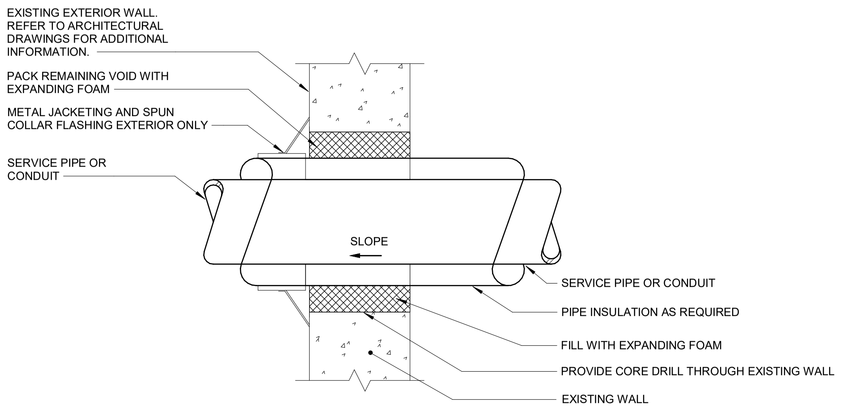
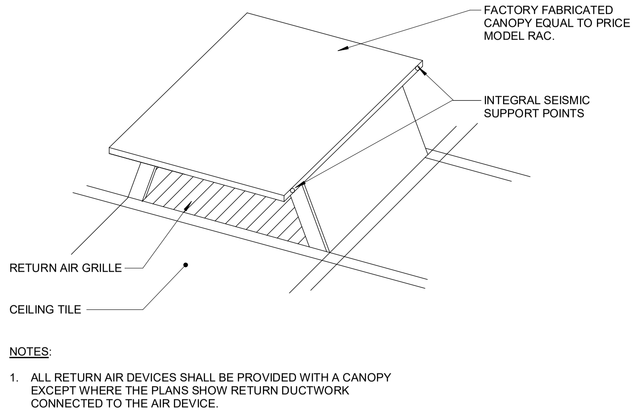


1 DETAIL - EXTERIOR WALL PENETRATION - ABOVE GRADE - EXISTING WALL

SCALE: N.T.S.

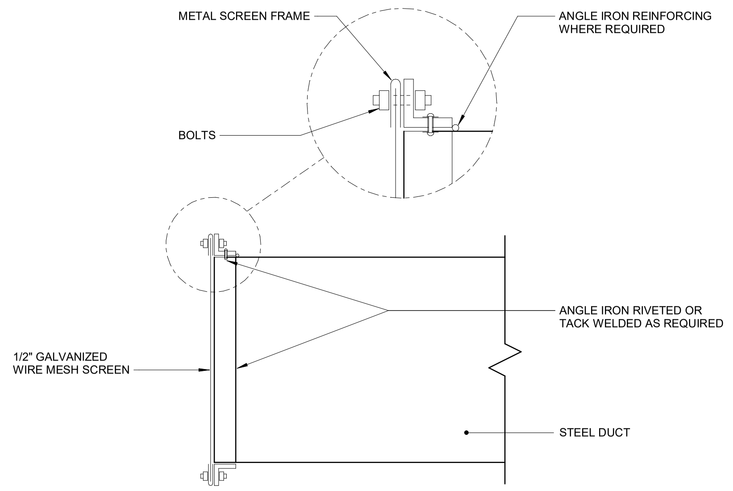


NOTES:

1. ALL RETURN AIR DEVICES SHALL BE PROVIDED WITH A CANOPY EXCEPT WHERE THE PLANS SHOW RETURN DUCTWORK CONNECTED TO THE AIR DEVICE.

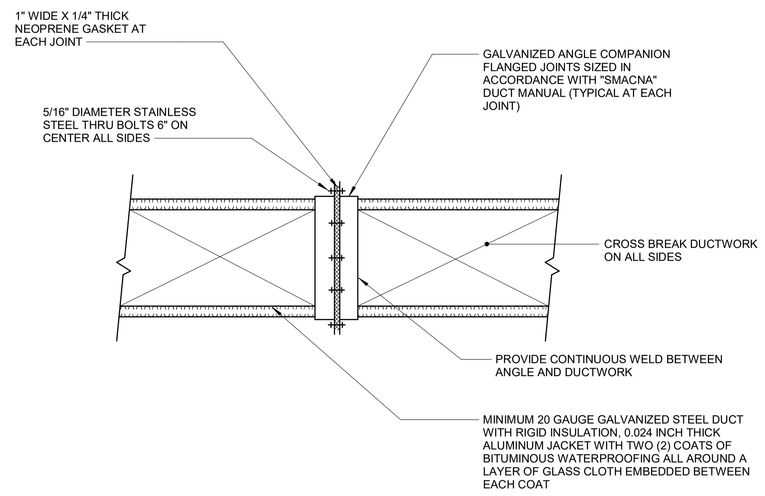
2 DETAIL - RETURN AIR CANOPY

SCALE: N.T.S.



3 DETAIL - OPEN END DUCT WITH WIRE MESH SCREEN

SCALE: N.T.S.



NOTES:

1. DUCT CONSTRUCTION SHALL BE SUITABLE FOR MINIMUM 10" WATER GAUGE STATIC PRESSURE.
2. INSTALL ALL SEAMS ON BOTTOM SIDE OF DUCT, PROVIDE WATERTIGHT CONSTRUCTION.

4 DETAIL - EXTERIOR DUCT CONSTRUCTION

SCALE: N.T.S.

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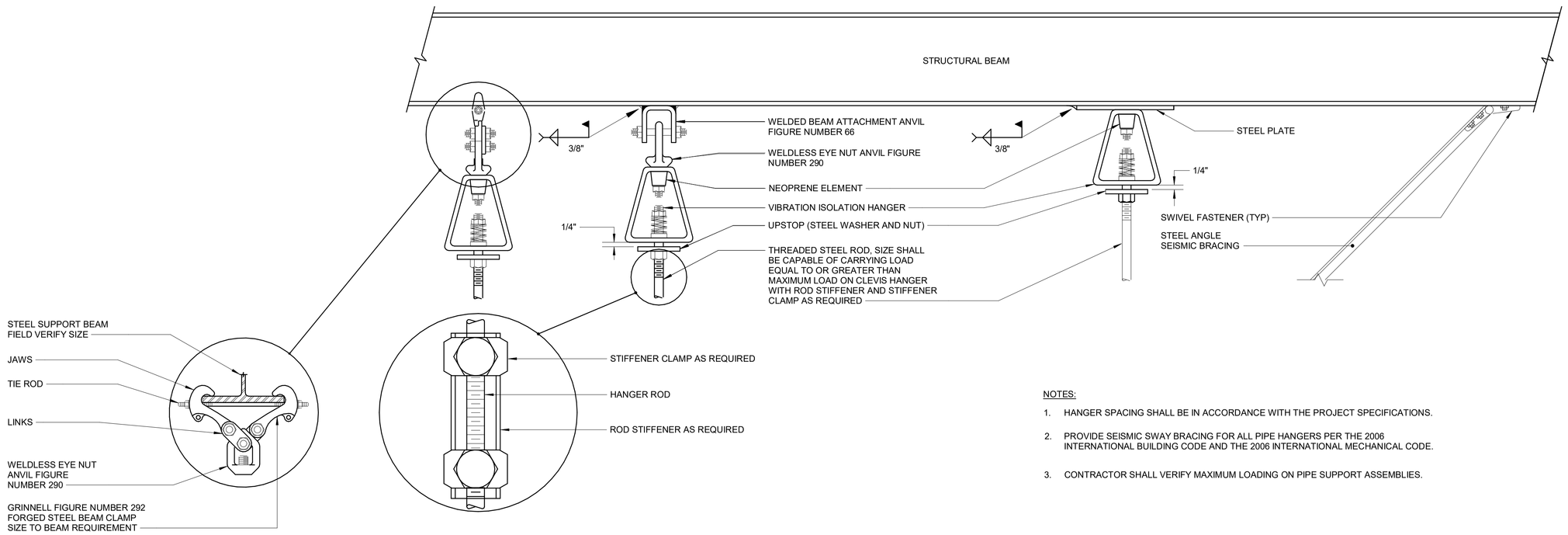
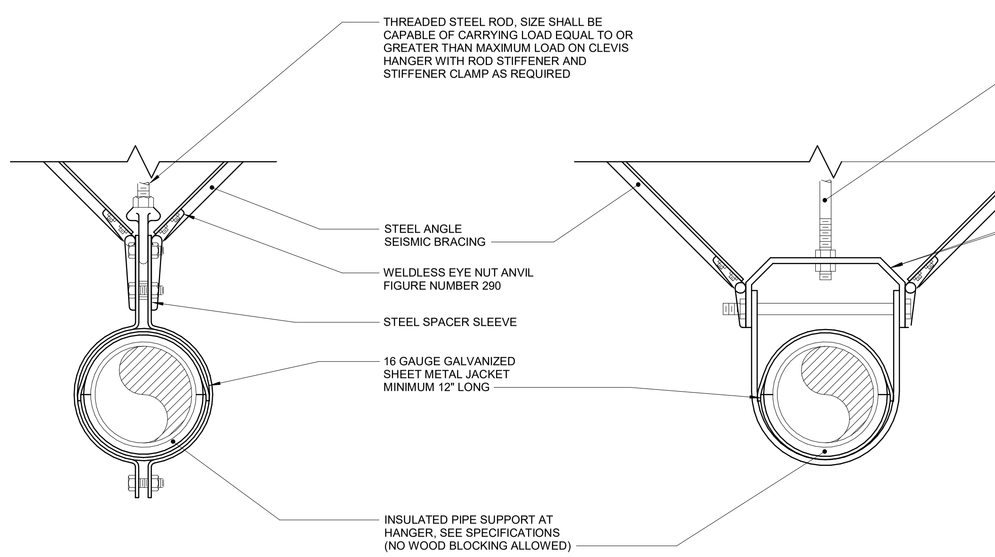
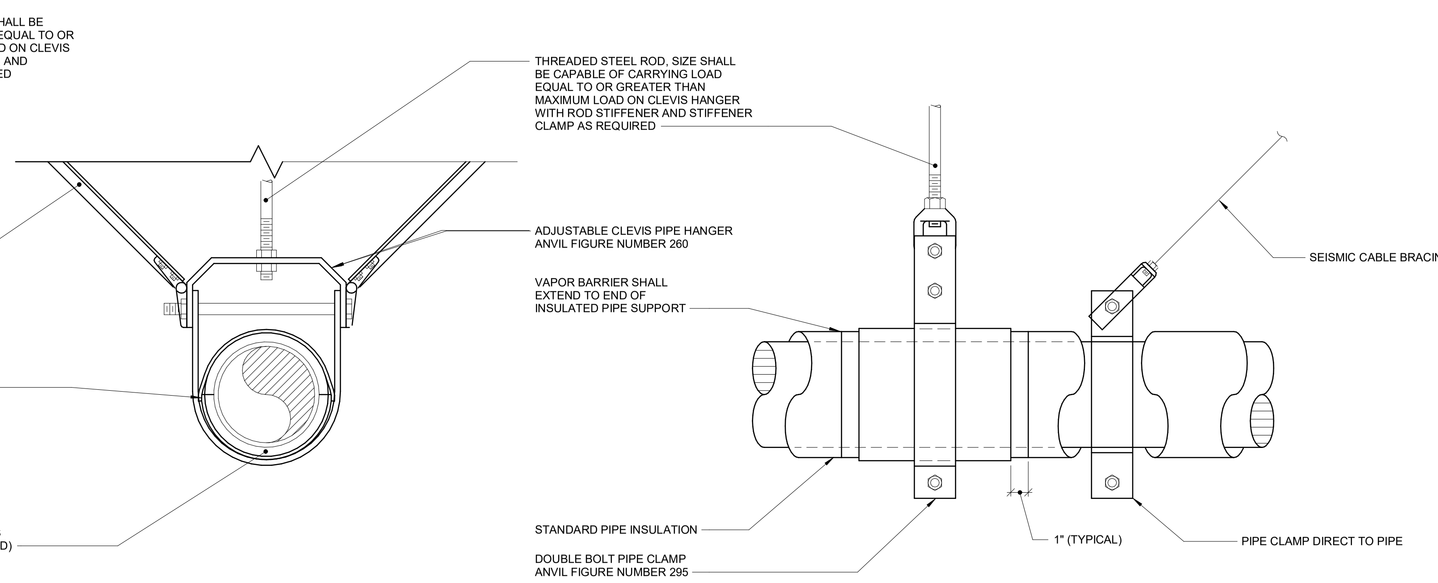


NOTES:

1. HANGER SPACING SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2. PROVIDE SEISMIC SWAY BRACING FOR ALL PIPE HANGERS PER THE 2006 INTERNATIONAL BUILDING CODE AND THE 2006 INTERNATIONAL MECHANICAL CODE.
3. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON PIPE SUPPORT ASSEMBLIES.





LOAD SCHEDULE		
PIPE SIZE	MAXIMUM SPACING	ROD SIZE
1/2"-2"	7'	1/2"

1 DETAIL - PIPE HANGER

SCALE: N.T.S.

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC. CHARLESTON, SC C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA PROFESSIONAL ENGINEER
32947
2026-07-20
GREGORY TAYLOR HUDSON

SEALS

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NOTES:

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REVISIONS

CONSTRUCTION DOCUMENTS

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WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

MECHANICAL DETAILS

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY LEL
CHECKED BY GTH
DATE 07/20/2026
SCALE 12" = 1'-0"

M403

7/20/2026 6:05:15 PM

AIR HANDLING UNIT SCHEDULE

DESIGNATION	LOCATION	SERVICE	AIRFLOW			SUPPLY FAN	RELIEF OR RETURN FAN	COOLING COIL	HEATING COIL	PREFILTER	FINAL FILTER	TOTAL ENERGY RECOVERY WHEEL	WEIGHT (LBS)	ELECTRICAL			BASIS OF DESIGN	REMARKS
			CFM	DESIGN OA CFM	MINIMUM OA CFM									VOLTS	PHASE	HERTZ		
AHU-1	MECHANICAL YARD	OFFICE AREA	4375	1020	1020	SF-1	RF-1	CC-1	-	PF-1	FF-1	-	-	208	3	60	TRANE/HORIZON	
DOAU-1	MECHANICAL YARD	AUTOPSY AREA	2390	2275	2275	SF-1	-	CC-2	PH-1	PF-2	FF-2	-	-	208	3	60	TRANE/HORIZON	

COOLING COIL SCHEDULE

DESIGNATION	SERVICE	AIRFLOW		EAT (ºF)		LAT (ºF)		MBH		MAXIMUM FACE VELOCITY (FPM)	NO. OF COILS	MAX FIN SPACING (FIN/IN)	MAXIMUM AIR PD (IN H2O)	MAX NUMBER OF ROWS	FLUID	BASIS OF DESIGN	REMARKS
		CFM	OA CFM	DB	WB	DB	WB	SENSIBLE	TOTAL								
CC-1	AHU-1	4375	1020	80.8	65.9	53.0	52.5	133.6	175.7	500	1	-	0.22	4	R-454B	TRANE	
CC-2	DOAU-1	2390	2275	96.6	75.8	47.0	46.5	129.6	223.2	500	1	-	0.10	4	R-454B	TRANE	

HEATING COIL SCHEDULE

DESIGNATION	SERVICE	AIRFLOW		EAT (ºF)		LAT (ºF)		INPUT CAPACITY (MBH)	MAXIMUM FACE VELOCITY (FPM)	NO. OF COILS	MAXIMUM AIR PD (IN H2O)	REMARKS
		CFM	OA CFM	DB	WB	DB	WB					
PH-1	DOAU-1	2390	2390	25	-	50	-	200	500	1	1.0	

AIR HANDLING UNIT FAN SCHEDULE

DESIGNATION	SERVICE	TYPE	TOTAL CFM	NO. OF FANS	TSP (IN H2O)	ESP (IN H2O)	FAN RPM	MOTOR BHP (PER FAN)	MOTOR HP (PER FAN)	DRIVE	VARIABLE FREQUENCY DRIVE			ELECTRICAL			REMARKS
											REQUIRED	ENCLOSURE	BYPASS	VOLTS	PHASE	HERTZ	
RF-1	AHU-1	RETURN	3355	1	5.0	1.0	1800	1.53	-	DIRECT	YES	NEMA 4X	NO	208	3	60	
SF-1	AHU-1	SUPPLY	4375	1	5.0	1.0	1800	2.45	-	DIRECT	YES	NEMA 4X	NO	208	3	60	
SF-2	DOAU-1	SUPPLY	2390	1	5.0	1.0	1800	0.95	-	DIRECT	YES	NEMA 4X	NO	208	3	60	

FILTER SCHEDULE

DESIGNATION	SERVICE	APPROXIMATE BANK DIMENSIONS (IN) (WxHxD)	NUMBER OF CARTRIDGES	CARTRIDGE SIZE (IN) (WxHxD)	CFM	MAX FACE VELOCITY (FPM)	MEDIA AREA PER CARTRIDGE (SQ FT)	MAXIMUM INITIAL PD @ 500 FPM (IN H2O)	MERV RATING	BASIS OF DESIGN	REMARKS
FF-1	AHU-1	-	20	20"x20"x12"	4375	500	18.1	0.60	14	TRANE	1
FF-2	DOAU-1	-	20	20"x20"x12"	2390	500	18.1	0.60	14	TRANE	1
PF-1	AHU-1	-	20	20"x20"x12"	4375	500	12.0	0.31	8	TRANE	2
PF-2	DOAU-1	-	20	20"x20"x12"	2390	500	12.0	0.31	8	TRANE	2

REMARKS:
1. REQUIRED FAN PERFORMANCE ACCOUNTS FOR TOTAL FILTER PRESSURE DROP OF 1.5".
2. REQUIRED FAN PERFORMANCE ACCOUNTS FOR TOTAL FILTER PRESSURE DROP OF 0.75".

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

DESIGNATION		MOUNTING	FAN		COOLING COIL						ELECTRICAL			BASIS OF DESIGN	REMARKS
					EAT (ºF)		LAT (ºF)		MBH						
INDOOR UNIT	OUTDOOR UNIT		NOM AIRFLOW	FLA	WB	DB	WB	DB	SENSIBLE	TOTAL	VOLTS	PHASE	HERTZ		
FCU-1	SSCU-1	WALL	325	0.19	-	80	-	55	12	12	208	1	60	TRANE	1

REMARKS:
1. UNIT SHALL BE PROVIDED WITH CONDENSATE PUMP.

FAN SCHEDULE

DESIGNATION	SERVICE	TYPE	CFM	SP INCH H2O	APPROX RPM	MOTOR		WHEEL DIAMETER	DRIVE	ELECTRICAL			VFD	APPROX WEIGHT (LBS)	BASIS OF DESIGN	REMARKS
						BHP	HP			VOLTS	PHASE	HERTZ				
EF-1	OFFICE AREA	INLINE	520	0.125	1725	-	1/8	12"	DIRECT	115	1	60	NO	90	LOREN COOK/SQN-D VF	
EF-2	AUTOPSY AREA	AUXILARY	1835	1.0	1725	-	2	36.5"	BELT	208	3	60	YES	1045	LOREN COOK/CAVP	
EF-3	BATHROOM (124)	CEILING	125	0.125	1200	-	-	10"	DIRECT	120	1	60	NO	30	PENNBARRY/ZJ1	
EF-4	LOCKER/LAUNDRY ROOM	CEILING	115	0.125	1200	-	-	10"	DIRECT	120	1	60	NO	30	PENNBARRY/ZJ1	

SUPPLY VAV UNIT SCHEDULE

DESIGNATION	AIRFLOW (CFM)				INLET SIZE	OUTLET SIZE	MINIMUM INLET SP (IN H2O)	MAXIMUM NC	MAXIMUM AIR PRESSURE DROP (IN H2O)	HEATING COIL PERFORMANCE							BASIS OF DESIGN	REMARKS
	COOLING		HEATING							EAT (°F)	LAT (°F)	CAPACITY (MBH)	TOTAL REQUIRED KW	VOLTS	PHASE	HERTZ		
	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM														
VAV-1	440	135	420	135	8"ø	12"x10"	0.50	30	0.30	55	84	13.2	1.3	208	3	60	TITUS DESV	
VAV-2	1745	1745	1745	1745	16"ø	24"x18"	0.50	30	0.30	55	80	47.1	13.8	208	3	60	TITUS DESV	
VAV-3	455	330	455	330	8"ø	12"x10"	0.50	30	0.30	55	81	12.8	3.7	208	3	60	TITUS DESV	
VAV-4	485	180	350	180	8"ø	12"x10"	0.50	30	0.30	55	83	10.6	3.1	208	3	60	TITUS DESV	
VAV-5	1250	545	830	545	14"ø	20"x18"	0.50	30	0.30	55	84	26	7.6	208	3	60	TITUS DESV	

SUPPLY AIR VALVE SCHEDULE

DESIGNATION	AIRFLOW (CFM)				INLET SIZE	OUTLET SIZE	MINIMUM INLET SP (IN H2O)	MAXIMUM NC	MAXIMUM AIR PRESSURE DROP (IN H2O)	HEATING COIL PERFORMANCE							BASIS OF DESIGN	REMARKS
	COOLING		HEATING							EAT (°F)	LAT (°F)	CAPACITY (MBH)	TOTAL REQUIRED KW	VOLTS	PHASE	HERTZ		
	OCCUPIED	UNOCCUPIED	OCCUPIED	UNOCCUPIED														
SAV-1	1735	1735	1735	1735	14"Ø	14"Ø	0.50	30	0.30	50	80	56.2	16.5	208	3	60	PHOENIX TSV	
SAV-2	655	655	655	655	8"Ø	8"Ø	0.50	30	0.30	50	80	21.2	6.5	208	3	60	PHOENIX TSV	

AIR DEVICE SCHEDULE

NUMBER	DUTY	TYPE	CFM		FACE/MODULE SIZE (IN)	NOMINAL DUCT SIZE (IN)	BLOW	MAX TOTAL AIR PD (IN H2O)	MAX NOISE CRITERIA VALUE	BASIS OF DESIGN		REMARKS
			MIN	MAX						MANUFACTURER	MODEL	
A1	SUPPLY	A	0	150	24"x24"	6"ø	4-WAY	0.1	25	TITUS	TDCA	
A2	SUPPLY	A	151	275	24"x24"	8"ø	4-WAY	0.1	25	TITUS	TDCA	
A3	SUPPLY	A	276	375	24"x24"	10"ø	4-WAY	0.1	25	TITUS	TDCA	
B1	SUPPLY	B	151	275	24"x24"	8"ø	4-WAY	0.1	25	TITUS	TDCA-AA	
B2	SUPPLY	B	276	375	24"x24"	10"ø	4-WAY	0.1	25	TITUS	TDCA-AA	
B3	SUPPLY	B	376	550	24"x24"	12"ø	4-WAY	0.1	25	TITUS	TDCA-AA	
C1	RETURN	C	1101	1600	24"x24"	22"x22"	-	0.05	20	TITUS	PAR	
D1	EXHAUST	D	151	250	24"x24"	8"x8"	-	0.05	20	TITUS	350R	
E1	EXHAUST	E	300	700	12"X12"	12"x12"	-	0.05	20	TITUS	AEROBLADE 271	

DIRECT EXPANSION FAN COIL UNIT SCHEDULE

DESIGNATION	FAN		COIL PERFORMANCE							MOUNTING	WEIGHT (LBS)	ELECTRICAL			BASIS OF DESIGN	REMARKS
						TOTAL COOLING	DEFROST									
	CFM	HP	REFRIGERANT	EAT(°F)	LAT (°F)	MBH	TYPE	TOTAL AMPS	AMBIENT (°F)			VOLTS	PHASE	HERTZ		
FCU-2	1950	1/15 (3)	R404A	40	30	18	AIR	8.1	95	SUSPENDED	90	115	1	60	HEATCRAFT/ADT180	1

REMARKS:
1. CONTRACTOR SHALL COORDINATE WITH OWNER ON UNIT SIZE AND CAPACITY. UNIT IS SUBJECT TO CHANGE.

CONDENSER UNIT SCHEDULE

DESIGNATION	OUTDOOR FAN			COMPRESSOR			OUTDOOR TEMP °F DB	ELECTRICAL			BASIS OF DESIGN	REMARKS
	# MOTOR	MOTOR SIZE (HP)	FLA PER MOTOR	# OF UNIT	RLA	LRA		VOLTS	PHASE	HERTZ		
CU-1	2.00	1/15	1	1	14.1	68.0	95.0	230	3	60	HEATCRAFT/BZT020	1

REMARKS:
1. CONTRACTOR SHALL COORDINATE WITH OWNER ON UNIT SIZE AND CAPACITY. UNIT IS SUBJECT TO CHANGE.

BUILDING DESIGN COMMISSIONING DATA

1. OUTSIDE DESIGN CONDITIONS:
   - SUMMER: 96.6ºF DB / 75.8ºF WB
   - SUMMER (DEHUMIDIFICATION): 85.5ºF DB / 81.1.1ºF WB
   - WINTER: 26.8 ºF
2. GENERAL BUILDING CRITERIA:
   - WALL U-FACTOR: 0.085
   - ROOF U-FACTOR: 0.027
   - GLASS U-FACTOR: 0.650
   - GLASS SHADING COEFFICIENT: 0.250
3. GENERAL BUILDING DESIGN LOAD REQUIREMENTS:
   - LIGHTING: 1.0 - 2 W/SF
   - EQUIPMENT: 1.5 - 2.5 W/SF
   - PEOPLE (OFFICE-SENSIBLE): 245 BTUH/PERSON
   - PEOPLE (OFFICE-LATENT): 205 BTUH/PERSON
4. COMFORT HEATING:
   - AUTOPSY SPACE: 68ºF ±2ºF
   - INTERIOR SPACES: 70ºF ±2ºF
5. COMFORT COOLING:
   - AUTOPSY SPACE: 68ºF ±2ºF / 50% RH
   - INTERIOR SPACES: 74ºF ±2ºF / 50% RH
6. MINIMUM BUILDING POSITIVE PRESSURE: 0.05" WG
7. GENERAL EXHAUST CRITERIA:
   - TOILETS: 75 CFM/FIXTURE
   - SHOWERS: 50 CFM/FIXTURE
   - CUSTODIAL: 50 CFM/FIXTURE
   - AUTOPSY ROOM: 20 ACH
8. CODES:
   - INTERNATIONAL BUILDING CODE, 2021
   - INTERNATIONAL MECHANICAL CODE, 2021
   - INTERNATIONAL PLUMBING CODE, 2021
   - INTERNATIONAL ENERGY CONSERVATION CODE, 2009
   - NATIONAL ELECTRIC CODE, 2020
   - NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS (LATEST EDITIONS)

STATE OF SOUTH CAROLINA — RMF ENGINEERING INC. CHARLESTON, SC C-00831 — REGISTERED ENGINEERS

SOUTH CAROLINA — PROFESSIONAL ENGINEER — 32947 — GREGORY TAYLOR HUDSON — 2026-07-20

SEALS

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MECHANICAL SCHEDULES

SHEET NAME

PROJECT NUMBER 03240069.A0

DRAWN BY LEL

CHECKED BY GTH

DATE 07/20/2026

SCALE 12" = 1'-0"

M500

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THROUGH PENETRATION FIRESTOP SCHEDULE

A. THIS SCHEDULE INDENTIFIES REQUIREMENTS FOR ACCEPTABLE THROUGH PENETRATION FIRESTOPS FOR THIS PROJECT BASED ON BARRIER TYPE, BASIS OF BARRIER CONSTRUCTION, AND PENERTRANT TYPE.

B. THROUGH PENETRATION FIRESTOPS ARE NOT REQUIRED FOR FLOOR PENETRATIONS CONTAINED TOTALLY WITHIN A RATED SHAFT ENCLOSURE.

C. FOR EACH PENETRATIONM SELECT A THROUGH PENETRATION FIRESTOP BASED ON ACTUAL FIELD CONDITIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO PENETRATION SIZE, PENETRATION SHAPE, PENETRANT MATERIALS(S), QUANTITY OF PENETRANTS PER PENETRATION, AND LOCATION(S) OF PENETRANT(S) WITHIN PENETRATION.

D. NOMENCLATURE OF UL CLASSIFIED FIRESTOP ASSEMBLIES USED IN THIS SCHEDULE IS IDENTICAL TO THAT USED IN CATALOGS OR APPROVED FIRESTOP MANUFACTUREES (SEE DIVISION 15) AND IN UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY."

RATED BARRIER		FIRESTOP ASSEMBLY REQUIREMENTS		PENETRANT TYPE					
TYPE	BASIS OF CONSTRUCTION			NO PENETRANTS	METALLIC UNINSULATED PIPE, OR TUBING (EX COPPER, IRON, STEEL)	NONMETALLIC UNINSULATED PIPE, OR TUBING (EX PVC, PP, STEEL)	INSULATED PIPES (EX COPPER, IRON, PLASTIC, STEEL) IN SYSTEMS OPERATING BETWEEN 32°F AND 122°F	INSULATED PIPES (EX COPPER, IRON, PLASTIC, STEEL) IN SYSTEMS OPERATING BETWEEN 32°F AND 122°F	METAL DUCT (NOTE 1)
WALL	METAL STUDS & GYPSUM WALLBOARD (U400 SERIES)	UL CLASSIFIED SERIES	SINGLE PENETRANT	W-L-0000 SERIES OR NOTE 2	W-L-1000 SERIES	W-L-2000 SERIES	W-L-5000 SERIES	W-L-5000 SERIES	W-L-7000 SERIES
			MULTIPLE PENETRANTS		W-L-8000 SERIES (NOTE 3)		W-L-8000 SERIES (NOTE 3)	W-L-8000 SERIES (NOTE 3)	N/A
		F RATING		EQUAL TO WALL RATING	EQUAL TO WALL RATING	EQUAL TO WALL RATING	EQUAL TO WALL RATING	EQUAL TO WALL RATING	EQUAL TO WALL RATING
		T RATING		NOTE 5	NOTE 5	NOTE 5	NOTE 5	NOTE 5	NOTE 5
		EXCEPTIONS/ ADDED REQUIREMENTS		NONE	NOTE 8	NOTE 8	NONE	NOTE 4	NONE
WALL	POURED CONCRETE, CONCRETE BLOCK OR MASONRY (BLOCK & U900 SERIES) (ANY THICKNESS)	UL CLASSIFIED SERIES	SINGLE PENETRANT	W-L-0000 SERIES OR NOTE 2	C-AJ-1000 SERIES W-J-1000 SERIES	C-AJ-2000 SERIES W-J-2000 SERIES	C-AJ-5000 SERIES OR W-J-5000 SERIES	C-AJ-5000 SERIES OR W-J-5000 SERIES	C-AJ-7000 SERIES OR W-J-5000 SERIES
			MULTIPLE PENETRANTS		C-AJ-8000 OR W-J-8000 SERIES (NOTE 3)		C-AJ-8000 OR W-J-8000 (NOTE 3)	C-AJ-8000 OR W-J-8000 (NOTE 3)	N/A
		F RATING		EQUAL TO WALL RATING	EQUAL TO WALL RATING				
		T RATING		NOTE 5	NOTE 5	NOTE 5	NOTE 5	NOTE 5	NOTE 5
		EXCEPTIONS/ ADDED REQUIREMENTS		NONE	NOTES 7 & 8	NOTE 8	NONE	NOTE 4	NONE
FLOOR	POURED CONCRETE (ANY THICKNESS)	UL CLASSIFIED SERIES	SINGLE PENETRANT	C-AJ-000 SERIES F-A-0000 SERIES OR NOTE 2	C-AJ-000 SERIES F-A-0000 SERIES	C-AJ-0200 SERIES F-A-2000 SERIES	C-AJ-5000 OR F-A-5000 SERIES	C-AJ-5000 OR F-A-5000 SERIES	C-AJ-7000 OR F-A-7000 SERIES
			MULTIPLE PENETRANTS		C-AJ-8000 OR F-A-8000 SERIES (NOTE 3)		C-AJ-8000 OR F-A-8000 (NOTE 3)	C-AJ-8000 OR F-A-8000 (NOTE 3)	N/A
		F RATING		EQUAL TO FLOOR RATING, BUT NOT LESS THAN 1 HR	EQUAL TO FLOOR RATING, BUT NOT LESS THAN 1 HR	EQUAL TO FLOOR RATING, BUT NOT LESS THAN 1 HR	EQUAL TO FLOOR RATING, BUT NOT LESS THAN 1 HR	EQUAL TO FLOOR RATING, BUT NOT LESS THAN 1 HR	EQUAL TO FLOOR RATING, BUT NOT LESS THAN 1 HR
		T RATING		NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6
		EXCEPTIONS/ ADDED REQUIREMENTS		NONE	NOTE 7	NONE	NONE	NOTE 4	NONE

NOTES:

1. THIS SCHEDULE'S DATA APPLY ONLY TO PENETRATIONS WITHOUT DAMPERS. FOR DAMPERED PENETRATIONS, REFER TO SPECIFICATIONS. AT DAMPERS, DO NOT APPLY MATERIAL THAT IS NOT INCLUDED IN THE DAMPER'S CLASSIFICATION.
2. SEAL OPENING USING BARRIER'S ORIGINAL CONSTRUCTION.
3. WHERE A SERIES 8000 CLASSIFIED SYSTEM IS NOT AVAILABLE, INSTALL PENETRANTS SINGLY, AND PROVIDE SINGLE-PENETRANT SYSTEMS.
4. FOR SYSTEMS THAT OPERATE BELOW 32°F OR ABOVE 122°F, COMPLY WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:
   A. PROVIDE TPFS SYSTEM USING INTUMESCENT ELASTROMERIC WRAP STRIP AS ITS FILL, VOID, OR CAVITY MATERIAL.
   B. DO NOT USE SERIES 8000 PENETRATIONS. PROVIDE ONLY SINGLE PENETRATIONS.
5. TEMPERATURE (T) RATINGS OF ASSEMBLIES IN WALLS MAY EQUAL ZERO.
6. TEMPERATURE (T) RATINGS OF ASSEMBLIES IN FLOORS SHALL EQUAL THE GREATER OF EITHER BARRIER RATING OR ONE HOUR EXCEPT AS FOLLOWS:
   A. AN ASSEMBLY'S T RATING MAY EQUAL ZERO WHRN THE PENETRANT ABOVE THE FLOOR PENETRATION IS CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL.
7. CLASSIFIED TPFS ASSEMBLY IS NOT REQUIRED WHEN ALL THE FOLLOWING CONDITIONS ARE MET;
   A. PENETRANT HAS A MAXIMUM NOMINAL DIAMETER OG 6 INCHES.
   B. PENETRATION HAS A MAXIMUM AREA OF 144 SQUARE INCHES.
   C. ANNULAR SPACE IS COMPLETELY FILLED WITH CONCRETE, GROUT, OR MORTAR THE FULL THICKNESS OF THE BARRIER.

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SOUTH CAROLINA PROFESSIONAL ENGINEER — 32947 — GREGORY TAYLOR HUDSON — 2026-07-20

SEALS

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843.577.6073

MECHANICAL SCHEDULES

SHEET NAME

PROJECT NUMBER	03240069.A0
DRAWN BY	LEL
CHECKED BY	GTH
DATE	07/20/2026
SCALE	12" = 1'-0"

M501

ELECTRICAL SYMBOLS

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	MH (UON)
$	SINGLE POLE TOGGLE SWITCH	48" TOD
$a	SWITCH: SUB-LETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD
$2	DOUBLE POLE TOGGLE SWITCH	48" TOD
$3	THREE-WAY TOGGLE SWITCH (SPDT)	48" TOD
$4	FOUR-WAY TOGGLE SWITCH (DPDT)	48" TOD
$K	KEY OPERATED SWITCH	48" TOD
$3D a	THREE WAY DIMMER SWITCH: SUBLETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD
$M	MANUAL STARTER W/ OVERLOADS	48" TOD
$P	SWITCH W/ PILOT LIGHT	48" TOD
$D	DIMMER SWITCH	48" TOD
$4D	4 BUTTON DIMMER SWITCH	48" TOD
$LV	LOW VOLTAGE CONTROL SWITCH	48" TOD
$T	MANUAL TIME SWITCH	48" TOD
$C	MOMENTARY CONTACT SWITCH	48" TOD
$WP	SWITCH WITH WEATHERPROOF ENCLOSURE	48" TOD
OS DS	OCCUPANCY SENSOR (CEILING & WALL MOUNTED)	
VS	VACANCY SENSOR	
T	TIME CLOCK	
R	RELAY	
L	LIGHTING CONTACTOR	
P	PHOTOCELL OR PUSHPLATE SWITCH	
UL 924	EMERGENCY SHUNT RELAY, UL 924 LISTED (CEILING MOUNTED)	
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED	
	LIGHTING FIXTURE: 2 BALLAST	
	LIGHTING FIXTURE: INDUSTRIAL	
	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED	
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED	
	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED	
	WALL WASHER	
	ADJUSTABLE WALL WASHER	
	LIGHTING FIXTURE ON EMERGENCY OR NIGHT LIGHT CIRCUIT (NL)	
	EMERGENCY BATTERY PACK: W/ NUMBER OF HEADS INDICATED	
	EMERGENCY BATTERY PACK: W/ REMOTE HEADS	
	REMOTE EMERGENCY HEAD	
	EMERGENCY BATTERY PACK: SEMI RECESSED, CEILING MOUNT	
	EXIT SIGN: CEILING OR PENDANT MOUNTED (SHADED PORTION INDICATES FACE)	
	EXIT SIGN: WALL MOUNTED - END, BACK	
	EXIT SIGN: W/ DIRECTIONAL ARROWS	
	POLE MOUNTED LIGHTING FIXTURE: SINGLE HEAD, DOUBLE HEAD	
	POLE MOUNTED LIGHTING FIXTURE: SINGLE, POLE TOP	
	LIGHTING POLE (SPORTS)	

SPECIAL SYSTEMS SYMBOLS

SYMBOL	DESCRIPTION	MH (UON)
H	FIRE ALARM HORN TYPE SPEAKER	NOTE 5
SH	FIRE ALARM FLASHING STROBE LIGHT - WALL MOUNTED	NOTE 5
F	FIRE ALARM HORN	NOTE 5
F	COMBINATION FIRE ALARM HORN AND FLASHING STROBE LIGHT	NOTE 5
S F	S - CEILING SPEAKER, F - FIRE ALARM SPEAKER	
S	FIRE ALARM SPEAKER W/ STROBE	
S	HORN TYPE SPEAKER	
H	MAGNETIC DOOR HOLDER	
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	
FAAP	FIRE ALARM ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
RAM	RESCUE ASSISTANCE MASTER CONTROL PANEL	48" TOD
RAR	RESCUE ASSISTANCE REMOTE STATION	48" TOD
TP	FIRE ALARM TRANSPONDER	
DS ES	DOOR SOLENOID, ELECTRIC STRIKE - LOCKING DEVICE CONNECTION POINT	
F	FIRE ALARM PULL STATION	48" TOD
H E	HEAT DETECTOR: E = ELEVATOR CONTROLS	
S AB E	SMOKE DETECTOR (PHOTOELECTRIC): AB = AUDIBLE BASE, E = ELEVATOR CONTROLS	
S	SMOKE DETECTOR (IONIZATION)	
S	FIRE ALARM DUCT DETECTOR WITH RELAY	
C	CARBON MONOXIDE DETECTOR	
ARC	FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL	
ARM	FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR	
RAL	FIRE ALARM SYSTEM REMOTE ALARM LIGHT	
FS	FLOW SWITCH CONNECTION	
TS	TAMPER SWITCH CONNECTION	
TRASMITTE LBT LIGHT BEAM RECEIVER LBR	FIRE ALARM LINEAR BEAM SMOKE DETECTOR: TRANSMITTER (LBT) AND RECEIVER (LBR)	
F	FIRE FIGHTER'S TELEPHONE JACK	48" TOD
M	MONITOR SYSTEM JUNCTION BOX	36" CTR
A	AMPLIFIER	
K	KEYPAD	48" TOD
CR	CARD READER	48" TOD
DA	DOOR ALARM CONTACT	
	ROUGH-IN JUNCTION BOX FOR CCTV CAMERA	
P	PUSH BUTTON PLATE	
	TELEVISION ANTENNA OUTLET	18" CTR
C	CABLE TV OUTLET	
	TELEVISION SYSTEM SPLITTER - 2 WAY, 4 WAY	
CR	A/V CREDENZA LOCATION	
IP	A/V INPUT PLATE	
R	A/V IN-WALL RACK	
MT	A/V MONITOR TV	
SC	A/V SCREEN CONTROL	
SP	A/V SCHEDULING PANEL	
ST	A/V SIGNAGE TV	
TP	A/V TOUCH PANEL	
	DATA/TELEPHONE OUTLET, CEILING MOUNTED	
	TELEPHONE OUTLET	18" CTR
	DATA OUTLET	18" CTR
W	TELEPHONE OUTLET, WALL MOUNTED	54" CTR
E	TELEPHONE OUTLET, EMERGENCY	54" TOD
	DATA/TELEPHONE OUTLET: UNSHADED AREA = DATA, SHADED AREA = VOICE NUMERALS INDICATE QUANTITY OF WIRED JACKS	18" CTR
	TELEPHONE OUTLET, FLOOR MOUNTED	
	DATA OUTLET, FLOOR MOUNTED	
	DATA/TELEPHONE OUTLET, FLOOR MOUNTED: UNSHADED AREA = DATA, SHADED AREA = VOICE NUMERALS INDICATE QUANTITY OF WIRED JACKS	
	COMBINATION POWER & TELEPHONE OUTLET, FLOOR MOUNTED	
	COMBINATION POWER & DATA OUTLET, FLOOR MOUNTED	
	COMBINATION POWER & DATA/TELEPHONE OUTLET, FLOOR MOUNTED	
WAP	WIRELESS ACCESS POINT	

POWER SYMBOLS

SYMBOL	DESCRIPTION	MH (UON)
$	COMBINATION SWITCH AND SIMPLEX RECEPTACLE	48" TOD
$	COMBINATION SWITCH AND DUPLEX RECEPTACLE	48" TOD
	SIMPLEX RECEPTACLE	18" CTR
E	DUPLEX RECEPTACLE: 'E' (IF SHOWN) INDICATES CONNECTED TO EMERGENCY CIRCUIT	18" CTR
	DUPLEX RECEPTACLE: FLOOR MOUNTED	
	DUPLEX RECEPTACLE: SPLIT WIRED, BOTTOM HALF SWITCHED	18" CTR
	DUPLEX RECEPTACLE: CEILING MOUNTED	
	DUPLEX RECEPTACLE: PEDESTAL TYPE	
	DUPLEX RECEPTACLE: MOUNTED 6" ABOVE BACKSPLASH OR COUNTER	
GFI	DUPLEX RECEPTACLE: GROUND FAULT INTERRUPTER TYPE	18" CTR
GFI	DUPLEX RECEPTACLE: GFI MOUNTED 6" ABOVE BACKSPLASH OR COUNTER	
H	DUPLEX RECEPTACLE: MOUNTED HIGH	84" CTR
IG	DUPLEX RECEPTACLE: ISOLATED GROUND	18" CTR
	DUPLEX RECEPTACLE: AT 54" A.F.F.	54" CTR
	DOUBLE DUPLEX RECEPTACLE	18" CTR
IG	DOUBLE DUPLEX RECEPTACLE ISOLATED GROUND	18" CTR
C	SIMPLEX RECEPTACLE: CART RECHARGE	36" CTR
C	DUPLEX RECEPTACLE: CART RECHARGE	36" CTR
P	DUPLEX RECEPTACLE: PAY PHONE	54" CTR
A	SPECIAL RECEPTACLE: NEMA 6-20R (20A, 2P, 3W, 208V)	18" CTR
B	SPECIAL RECEPTACLE: NEMA 6-30R (30A, 2P, 3W, 208V)	18" CTR
C	SPECIAL RECEPTACLE: NEMA 14-30R (30A, 3P, 4W, 208V)	18" CTR
D	SPECIAL RECEPTACLE: NEMA 14-20R (20A, 3P, 4W, 208V)	18" CTR
A	SPECIAL RECEPTACLE: FLOOR MOUNTED, NEMA 6-20R	
A	SPECIAL RECEPTACLE: PEDESTAL TYPE, NEMA 6-20R	
	TELEVISION RECEPTACLE	72" CTR
H	TELEVISION RECEPTACLE	18" BFC
	CLOCK HANGER OUTLET	84" CTR
1 2	PROGRAM CLOCK OUTLET: SINGLE FACE, DOUBLE FACE	84" CTR
EPO	EMERGENCY POWER OFF SWITCH	48" TOD
	JUNCTION BOX	
	JUNCTION BOX - WALL MOUNTED	48" TOD
E	EQUIPMENT CONNECTION AS NOTED	
E	EQUIPMENT CONNECTION AS NOTED - WALL MOUNTED	48" TOD
3	HEATER CONNECTION - NUMBER INDICATES KILOWATTS (3KW)	
	HEATER FAN - CEILING MOUNTED	
CB	ENCLOSED CIRCUIT BREAKER	
	NON-FUSED DISCONNECT SWITCH: 30A, 3P (UON)	
(40A)	FUSED DISCONNECT SWITCH: FUSE SIZE AS INDICATED (40A)	
MS	MAGNETIC MOTOR STARTER	
FVNR	COMBINATION MAGNETIC MOTOR STARTER: ABBREVIATION INDICATES TYPE - FVNR, FVR, RVAT, 2S1W, 2S2W, SST	
VFC	VARIABLE FREQUENCY CONTROLLER W/ FUSED DISCONNECT SWITCH	
VFD	VARIABLE FREQUENCY DRIVE W/ DISCONNECT SWITCH	
HP	MOTOR: NUMERALS (IF SHOWN) INDICATE HP	
KW	GENERATOR: NUMERALS (IF SHOWN) INDICATE KW	
M	MANUAL MOTOR STARTER W/ THERMAL OVERLOADS	
M	MOTOR SWITCH	
	MECHANICAL EQUIPMENT CONNECTION - WITH MOTOR	
	MECHANICAL EQUIPMENT CONNECTION - NO MOTOR	
CP	CONTROL PANEL: TYPE AS INDICATED	
PB	MOMENTARY CONTACT START-STOP PUSHBUTTON STATION	48" TOD
PBM	MAINTAINED CONTACT START-STOP PUSHBUTTON STATION	48" TOD
ES	MAINTAINED CONTACT EMERGENCY STOP PUSHBUTTON STATION	48" TOD
	BRANCH PANELBOARD	90" TOC
	DISTRIBUTION PANELBOARD	
T	TRANSFORMER, CONCRETE PAD MOUNTED	

SYMBOL	DESCRIPTION
	RACEWAY "UP" OR "TOWARDS"
	RACEWAY "DOWN" OR "AWAY"
	CIRCUIT CONCEALED IN WALLS OR CEILING SPACE: CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)
	RACEWAY CONCEALED IN SLAB OR BELOW GRADE
	BRANCH CIRCUIT HOMERUN TO PANELBOARD: QUANTITY OF CIRCUITS INDICATED BY ARROWS NUMBER OF CONDUCTORS SHALL BE MINIMUM 4#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)
	RACEWAY RUN EXPOSED: CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)
	BUS DUCT OR CABLE TRAY "UP" OR "TOWARDS"
	BUS DUCT OR CABLE TRAY "DOWN" OR "AWAY"
	BUS DUCT: TYPE AND SIZE AS INDICATED
	TELEPHONE AND POWER POLE ASSEMBLY
	CONCRETE ENCASED DUCTBANK BELOW GRADE
W	SURFACE MOUNTED RACEWAY ASSEMBLY WITH REMOVABLE COVER
	MULTI-OUTLET ASSEMBLY: DARK SQUARES INDICATE PREWIRED RECEPTACLE LOCATIONS SIZE AS INDICATED
	MULTI-OUTLET ASSEMBLY: WITH RECEPTACLES LOCATED WHERE INDICATED
	2 CELL MULTI-OUTLET ASSEMBLY: WITH COMMUNICATION DEVICES AND RECEPTACLES LOCATED WHERE INDICATED
	MULTI-OUTLET ASSEMBLY: WITH COMMUNICATION DEVICES LOCATED WHERE INDICATED
	FLEXIBLE CONDUIT
	CABLE TRAY
	GROUND ROD
	LIGHTNING PROTECTION AIR TERMINAL
G G	GROUND WIRE CONNECTION
G G G	GROUND WIRE
	LIGHTNING PROTECTION DOWN LEAD
	UTILITY POLE

CIRCUIT DESIGNATIONS

LIGHTING A # a
- A: FIXTURE TYPE
- #: CIRCUIT DESIGNATION (#12AWG MINIMUM)
- a: SWITCH DESIGNATION

POWER #
- #: CIRCUIT DESIGNATION (#12AWG MINIMUM)

ELECTRICAL SYMBOLS NOTES

1. THIS IS A STANDARD SYMBOL LIST. SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
2. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
3. PLAN AND SECTION SYMBOLS MAY ALSO BE USED ON RISER DIAGRAMS.
4. ON SINGLE LINE DIAGRAMS FOR 3 PHASE SYSTEMS, DEVICE QUANTITY = 3, UNLESS OTHERWISE NOTED.
5. DEVICE SHALL BE MOUNTED A MINIMUM OF 90" AFF TO BOTTOM OF DEVICE OR BELOW THE FINISHED CEILING OF NOT LESS THAN 6" TO TOP OF DEVICE, WHICHEVER IS LOWER.
6. UNLESS OTHERWISE NOTED, ALL INTERIOR CONDUITS AND BOXES SHALL BE CONCEALED.

ELECTRICAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

2S1W	2 SPEED SINGLE WINDING
2S2W	2 SPEED DOUBLE WINDING
A, AMP	AMPERE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINAL GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CAPACITY
ALT	ALTERNATE
ANN	ANNUNCIATOR
APPROX	APPROXIMATELY
ARCH	ARCHITECT
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIOVISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BOD	BOTTOM OF DEVICE
C, CND	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT, CCT	CIRCUIT
CL	CURRENT LIMITING
CLG	CEILING
CONN	CONNECT
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CTR	CENTER
CU, CO	COPPER
CX	CONNECT TO EXISTING
DC	DIRECT CURRENT
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DT	DOUBLE THROW
DWG	DRAWING
E, EMERG	EMERGENCY
EA	EACH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ELEC	ELECTRIC
ELEV	ELEVATION, ELEVATOR
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPOSED
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FAN COIL
FDR	FEEDER
FLA	FULL LOAD AMPERES
FLR	FLOOR
FR	FRAME
FU	FUSED, FUSIBLE
FUSS	FUSED SAFETY SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GEN	GENERATOR, GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTED
GFR	GROUND FAULT RELAY
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HEAT PUMP, HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ
IG	ISOLATED GROUND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KW	KILOWATTS
KWH	KILOWATT HOUR
LA	LIGHTNING ARRESTOR
LC	LIGHTING CONTACTOR
LP	LIGHTING PANEL
LRA	LOCKED ROTOR AMPERES
LTG	LIGHTING
LTNG	LIGHTNING
MATV	MASTER ANTENNA TELEVISION
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MEH	METAL HALIDE
MH	MANHOLE, MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MSP	MOTOR STARTER PANEL
MTD	MOUNTED
MV	MERCURY VAPOR
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NFSS	NON-FUSED SAFETY SWITCH
NO	NUMBER, NORMALLY OPEN
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
P	POLE
PB	PUSHBUTTON
PF	POWER FACTOR
PFCC	POWER FACTOR CORRECTION CAPACITOR
PL	PILOT LIGHT
PLC	PROGRAMMABLE LIGHTING CONTROL
PNL	PANEL
PP	POWER PANEL
Pp	PUMP
PR	PAIR
PRN	PRINTER
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
Ø, PH	PHASE
QTY	QUANTITY
RCS	REMOTE CONTROL SWITCH
REC, RECPT	RECEPTACLE
REQ'D	REQUIRED
RFI	RADIO FREQUENCY INTERFERENCE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPERES
RM	ROOM
RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
RX	REMOVE EXISTING
SC	SURGE CAPACITOR
SEC	SECONDARY
SN, S/N	SOLID NEUTRAL
SP	SURGE PROTECTION
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SS	SAFETY SWITCH
SST	SOLID STATE
ST	SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
TBR	TO BE REMOVED
TC	TIME CLOCK
TEL, TELE	TELEPHONE
TH	TUNGSTEN HALOGEN
TOC	TOP OF CABINET
TOD	TOP OF DEVICE
TRANS, XFMR	TRANSFORMER
TTB	TELEPHONE TERMINAL BOARD
TW	TWISTED
TYP	TYPICAL
UCB	UNIT CIRCUIT BREAKER
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VOLTS
VFC	VARIABLE FREQUENCY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRE
W/	WITH
WP	WEATHER-PROOF
XP	EXPLOSION PROOF

EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
SWGR	SWITCHGEAR
SWBD	SWITCHBOARD
PNL	PANELBOARD
MCC	MOTOR CONTROL CENTER
XFMR	TRANSFORMER

ELECTRICAL DRAWING PRESENTATION

SYMBOL	DESCRIPTION
#	REVISION NUMBER
1	DRAWING NOTE NUMBER
XX / XX	SECTION/ELEVATION IDENTIFICATION
XX / XX	PART PLAN AND DETAIL IDENTIFICATION
	EXISTING LINE TYPE
	NEW ELECTRICAL WORK LINE TYPE
	FUTURE ELECTRICAL WORK LINE TYPE
	DEMOLITION LINE TYPE ON DEMOLITION DRAWINGS

STATE OF SOUTH CAROLINA — RMF ENGINEERING INC. CHARLESTON, SC C-00831 — REGISTERED ENGINEERS

SOUTH CAROLINA LICENSED — NO. 31417 PROFESSIONAL — 07/20/2026 EXPIRES — JUSTIN LEE ZIEGLER

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WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NAME

PROJECT NUMBER	03240069.A0
DRAWN BY	JLZ
CHECKED BY	JLZ
DATE	07/17/2026
SCALE	As indicated

E001

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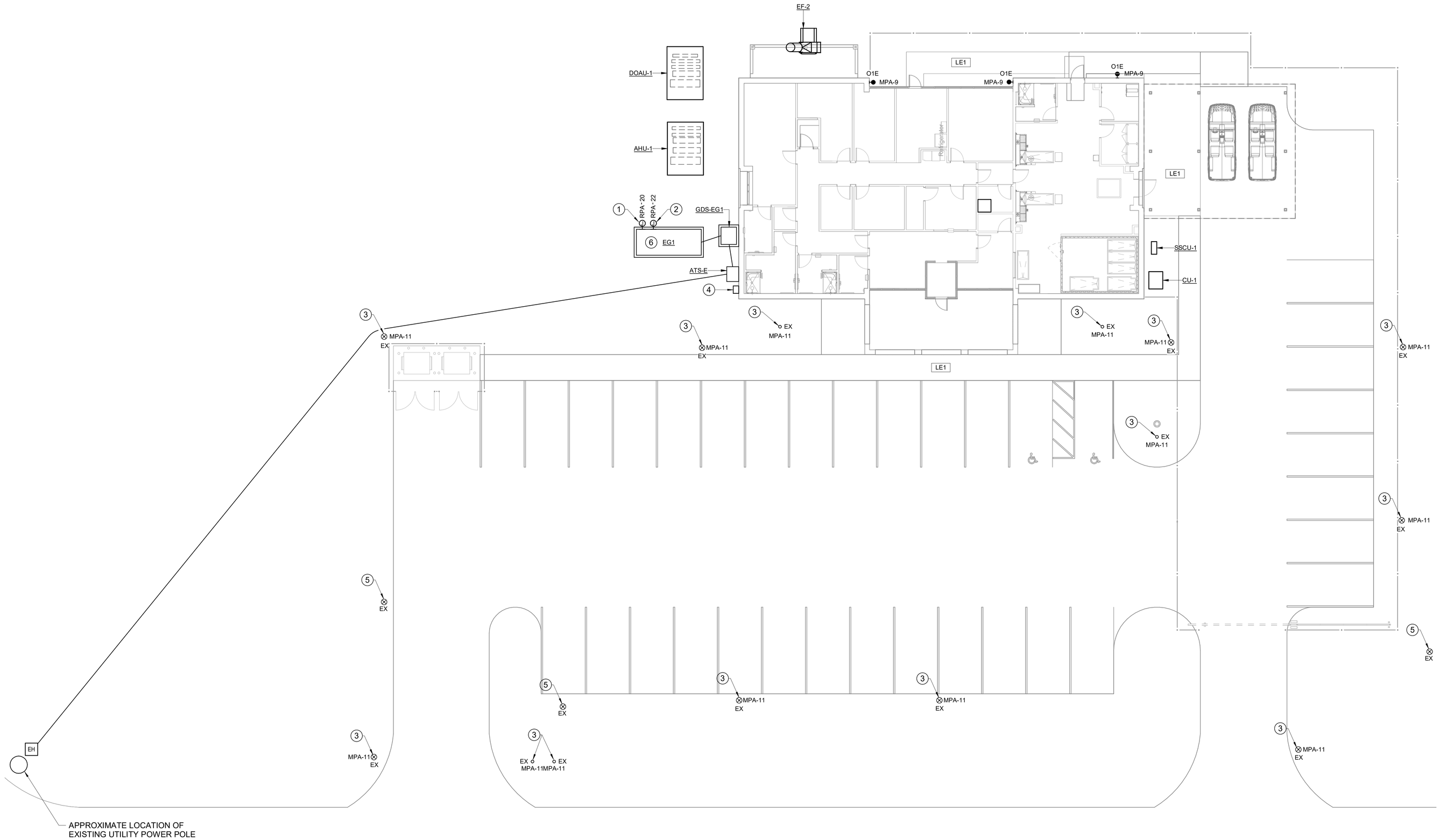
KEYED NOTES

1. GENERATOR JACKET WATER HEATER CONNECTION.
2. GENERATOR BATTERY CHARGER CONNECTION.
3. EXISTING SITE LIGHTING CIRCUIT TO BE REFED TO NEW PANEL AS INDICATED.
4. DOMINION ENERGY UTILITY METER.
5. EXISTING DOMINION LIGHT POLE TO REMAIN.
6. EXTEND (1) CONDUIT TO ATS-E FOR CONTROL WIRING.

GENERAL NOTES

1. SEE DRAWING E501 FOR MECHANICAL AND PLUMBING EQUIPMENT CIRCUITING REQUIREMENTS.
2. SEE DRAWING E601 FOR LIGHTING FIXTURE AND LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULES.
3. CONTRACTOR SHALL CONFIRM PROPER OPERATION OF EXISTING LIGHT FIXTURES TO BE REUSED. ANY DAMAGED OR NON-FUNCTIONAL LIGHT FIXTURES WILL BE REPLACED. NEW FIXTURES SHALL MATCH EXISTING FIXTURE STYLE.
4. EXTEND EXTERIOR LIGHTING CIRCUITS THRU LIGHTING CONTACTOR (4-POLE) TO BE LOCATED ELECTRICAL 111. PROVIDE TIME CLOCK AND PHOTOCELL TO CONTROL LIGHTING CONTACTOR.



1 **ELECTRICAL SITE PLAN**
SCALE: 3/32" = 1'-0"

GRAPHIC SCALE
12 6 0 12 24
SCALE: 3/32" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC.
CHARLESTON, SC
C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
LICENSED
Justin Lee Ziegler
NO. 31417
PROFESSIONAL
EXPIRES 07/20/2026
JUSTIN LEE ZIEGLER

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ELECTRICAL SITE PLAN

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY JLZ
CHECKED BY JLZ
DATE 07/17/2026
SCALE 3/32" = 1'-0"

E010

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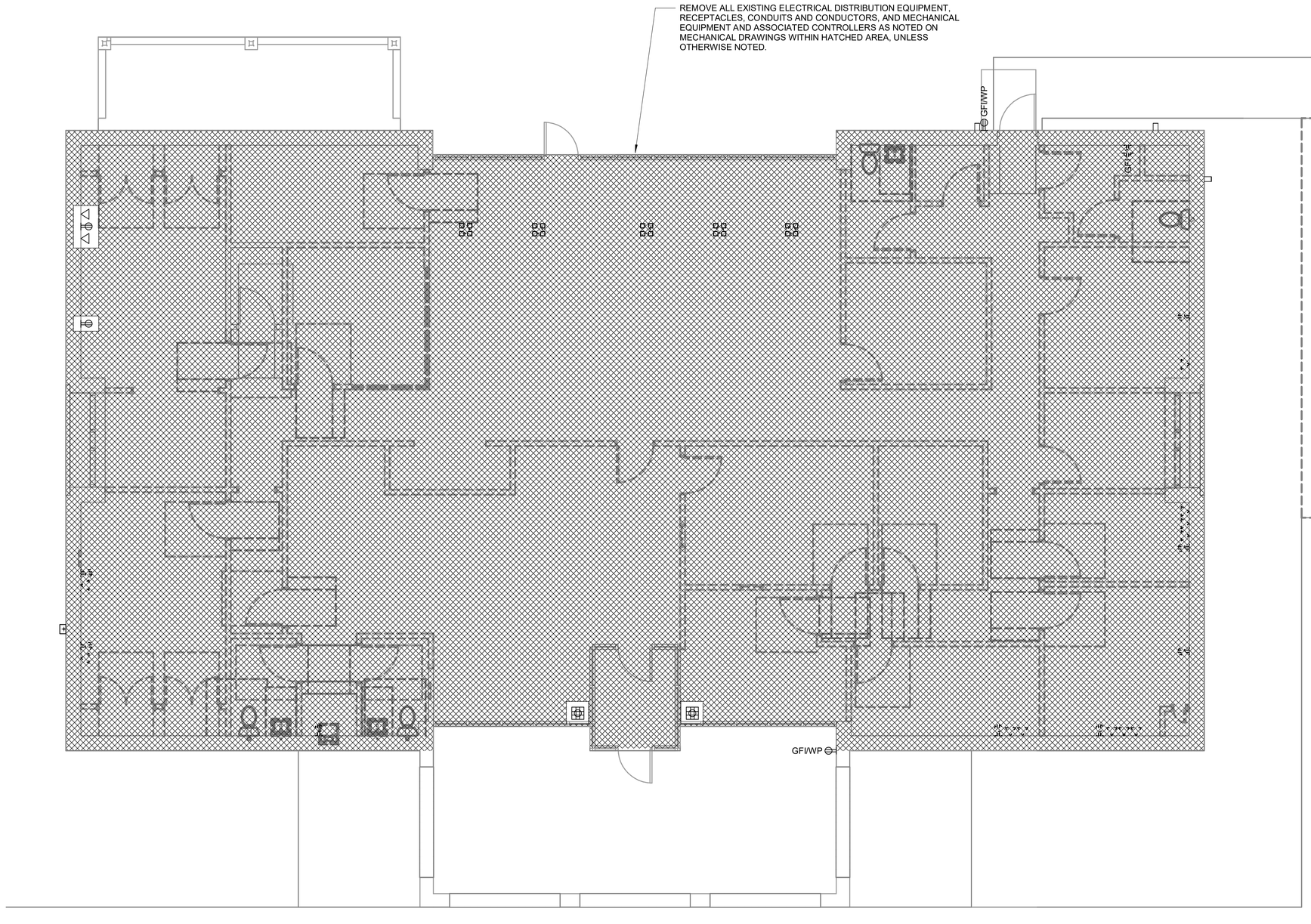

1 **FIRST FLOOR PLAN - ELECTRICAL - DEMOLITION**
SCALE: 3/16" = 1'-0"

DEMOLITION NOTES

1. EXISTING INSTALLATION SHALL REMAIN AS IS EXCEPT AS OTHERWISE INDICATED OR SPECIFIED. PERFORM WORK TO TIE IN THE NEW WORK WITH THE EXISTING WORK AND TO ADAPT THE EXISTING WORK TO THE CHANGES IN THE BUILDING AND SYSTEMS.
2. REMOVE EQUIPMENT, APPARATUS, AND EXPOSED WIRING AND RACEWAYS RENDERED USELESS DUE TO CHANGES.
3. WHERE EXISTING CEILINGS ARE REMOVED, REMOVE LIGHT FIXTURES, EXIT SIGNS, AND OTHER ELECTRICAL POWER AND SIGNAL APPARATUS MOUNTED TO CEILING OR CEILING SUPPORTS, INCLUDING ASSOCIATED CONDUITS AND WIRING.
4. MATERIAL AND EQUIPMENT WHICH ARE REMOVED AND NOT REUSED IN NEW WORK SHALL BE TURNED OVER TO OWNER.
5. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED AND NOT ACCEPTED BY OWNER SHALL BECOME PROPERTY OF CONTRACTOR AND SHALL BE REMOVED FROM SITE.
6. MATERIAL AND EQUIPMENT WHICH HAS BEEN REMOVED SHALL NOT BE USED IN NEW WORK, EXCEPT AS SPECIFIED HEREIN.
7. MATERIAL AND EQUIPMENT REMOVED AND NOT REUSED SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.
8. WHERE EXISTING RACEWAYS AND EQUIPMENT ARE INDICATED, SIZE AND LOCATION SHALL BE VERIFIED PRIOR TO BIDDING.
9. REMOVE THE EXISTING ELECTRICAL SERVICES AND INSTALL NEW SERVICES AS SPECIFIED HEREIN AND AS INDICATED.
10. REMOVE CONCEALED WIRING AND RACEWAYS WHICH ARE EXPOSED BY REMOVAL OF WALLS, PARTITIONS, AND CEILINGS.
11. SLEEVES LEFT OPEN BY REMOVAL OF RACEWAYS SHALL BE CUT FLUSH WITH FINISHED SLAB AND FILLED WITH GROUT FLUSH WITH SLAB.
12. CONCEALED RACEWAYS IN MASONRY WALLS RENDERED USELESS BY REVISIONS SHALL BE CUT FLUSH WITH WALL SURFACE AND SEALED WITH GROUT.
13. MAINTAIN EXISTING EXTERIOR LIGHTING ON THE SITE IN OPERATION DURING CONSTRUCTION. PROVIDE TEMPORARY POWER CONNECTIONS TO ENSURE CONTINUED OPERATION.
14. WHERE EXISTING MECHANICAL EQUIPMENT IS REMOVED, REMOVE ELECTRIC WIRING, RACEWAYS, SWITCHES AND STARTERS ASSOCIATED WITH EQUIPMENT.
15. CUT AND REPAIR WALLS, FLOORS AND CEILINGS FOR INSTALLATION OF NEW ELECTRICAL WORK.

GRAPHIC SCALE
6 3 0 6 12
SCALE: 3/16" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC. CHARLESTON, SC C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA LICENSED
Justin Lee Ziegler
NO. 31417 PROFESSIONAL
07/20/2026
EXAMINED
JUSTIN LEE ZIEGLER

SEALS

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CHARLESTON, SC 29492
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WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

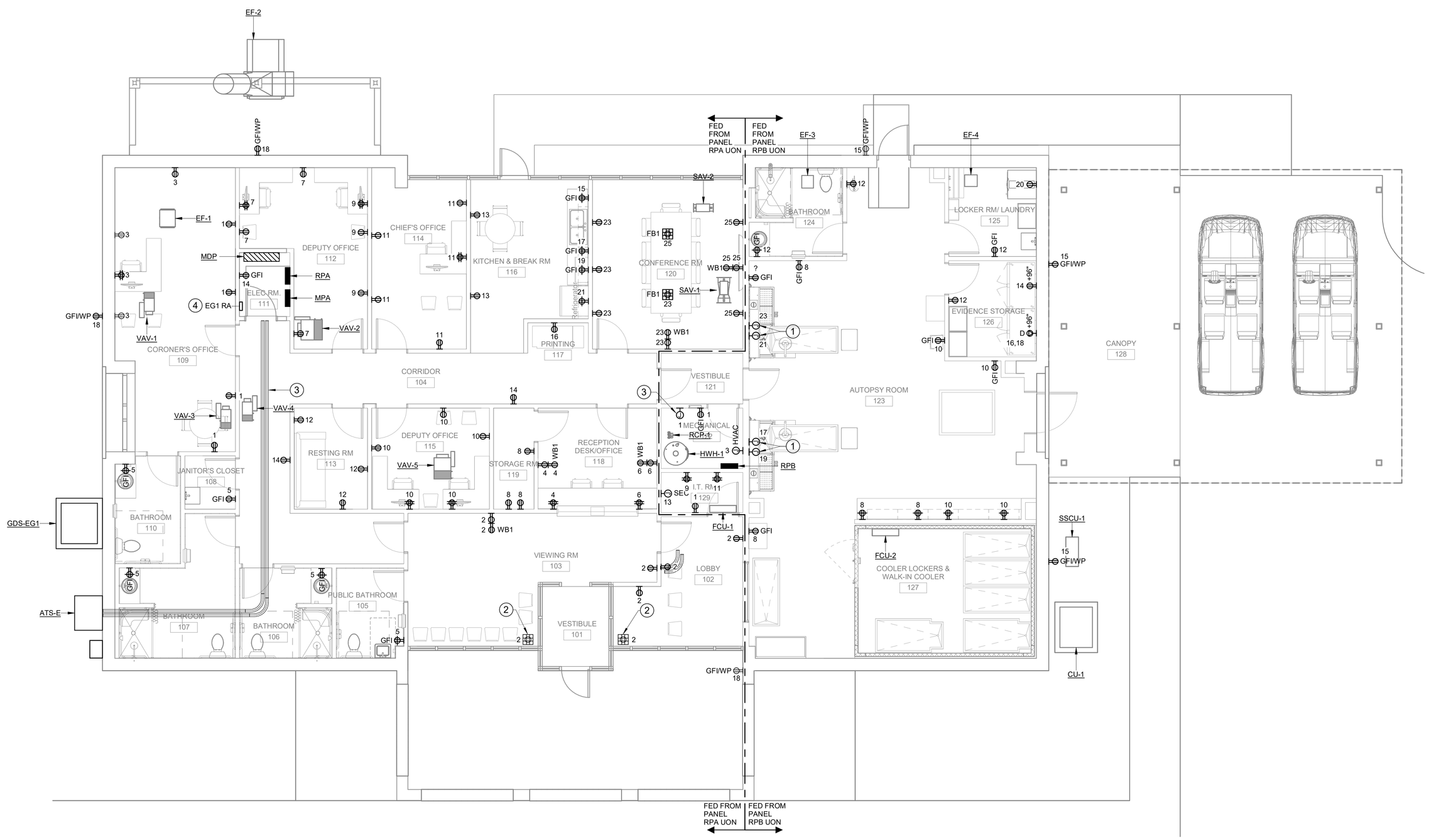
ELECTRICAL DEMOLITION PLAN

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY JLZ
CHECKED BY JLZ
DATE 07/17/2026
SCALE 3/16" = 1'-0"

ED101

7/20/2026 4:34:43 PM



1 **FIRST FLOOR PLAN - ELECTRICAL POWER - NEW WORK**
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE
6 3 0 6 12
SCALE: 3/16" = 1'-0"
UNIT OF MEASURE: FEET

GENERAL NOTES

1. SEE DRAWING E501 FOR MECHANICAL AND PLUMBING EQUIPMENT CIRCUITING REQUIREMENTS.
2. FLOOR BOXES:
   A. FLOOR BOX FB1:
      a. 4-GANG, ON-GRADE, RECESSED FLOOR BOX WITH (2) 20 A DUPLEX RECEPACLES AND (2) 1-GANG FOR IT/AV USE (SEE DRAWING E301 FOR IT/AV CONDUIT REQUIREMENTS).
      b. BASIS OF DESIGN MANUFACTURER: LEGRAND RFBA4C2SOG
   B. WALL BOX WB1:
      a. 9" RECESSED IN-WALL BOX WITH POWER SUPPLY KIT AND WHITE FINISH.
      b. COORDINATE EXACT LOCATION OF WALL BOX WITH MONITOR MOUNTING BRACKET. PROVIDE (1) 1 1/4" EMPTY CONDUIT FROM TOP OF BOX TO ACCESSIBLE CEILING FOR COMMUNICATIONS CABLING.
      c. BASIS OF DESIGN: LEGRAND SA-1WB9KIT-W1
3. PROVIDE STAINLESS COVER PLATE FOR WIRING DEVICES WITHIN AUTOPSY SUITE AND THERMOPLASTIC COVER PLATES IN OTHER AREAS.

(#) KEYED NOTES

1. MAKE FINAL CONNECTION TO AUTOPSY SINK PER MANUFACTURER'S REQUIREMENTS.
2. EXISTING FLOOR BOX TO REMAIN. PROVIDE NEW RECEPTACLE AND WIRES IN SAID LOCATION.
3. MAKE FINAL CONNECTION TO AUTOMATIC TRAP PRIMER PER MANUFACTURER'S REQUIREMENTS.
4. GENERATOR EG1 REMOTE ANNUNCIATOR PANEL. EXTEND (1) 1" EMPTY CONDUIT FOR CONTROL WIRING.
5. PANEL MDP FEEDER ROUTED ABOVE CEILING.

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SOUTH CAROLINA — LICENSED — JUSTIN LEE ZIEGLER — NO. 31417 PROFESSIONAL — 07/20/2026 — EXPIRES

SEALS

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NOTES:

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1643 MEANS STREET
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ELECTRICAL POWER PLAN

SHEET NAME

PROJECT NUMBER	03240069.A0
DRAWN BY	JLZ
CHECKED BY	JLZ
DATE	07/17/2026
SCALE	3/16" = 1'-0"

E101

7/20/2026 4:34:49 PM

LIGHTING CONTROL LEGEND

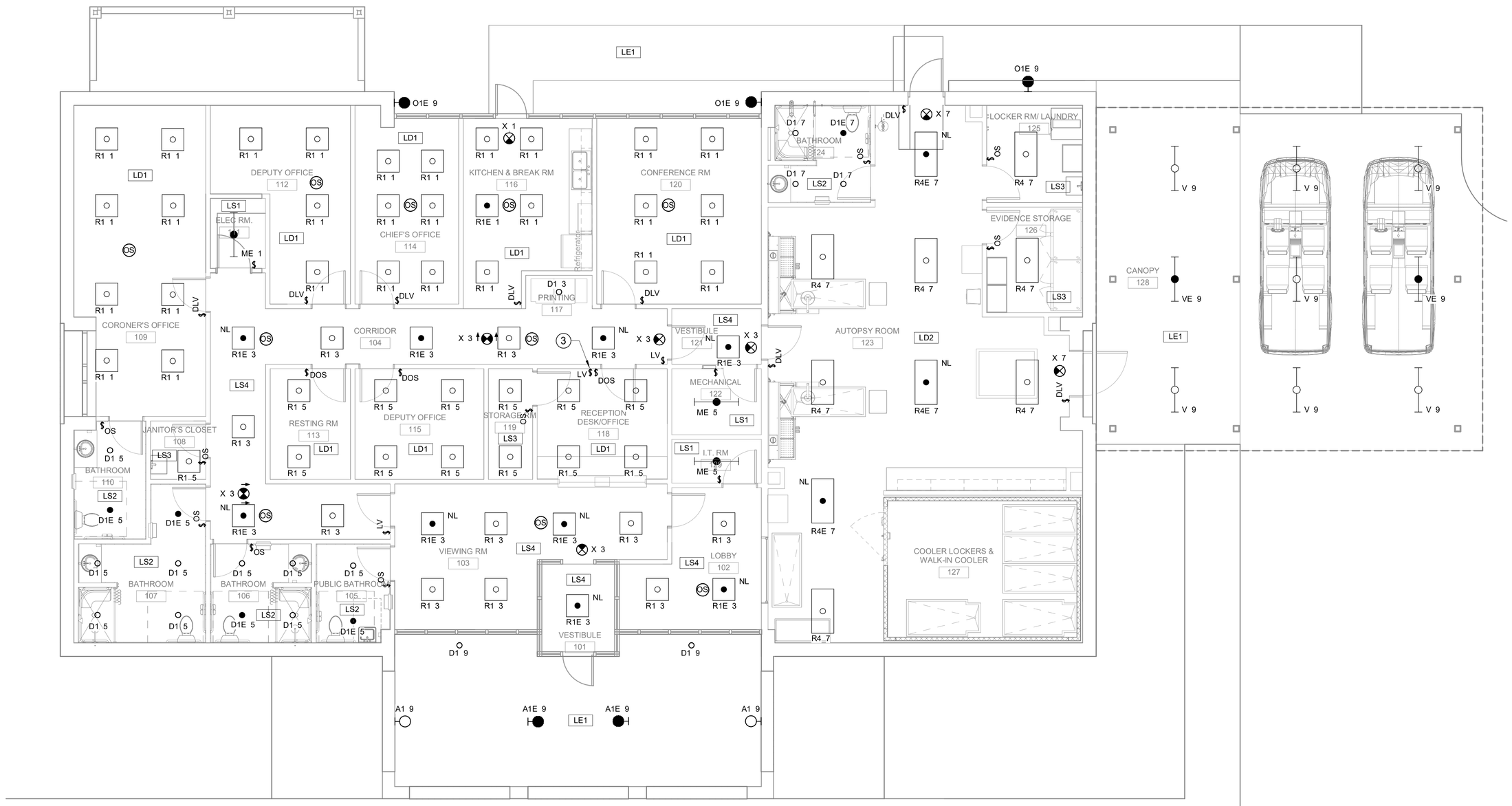
LS1 — LIGHTING CONTROL SEQUENCE OF OPERATIONS TAG INDICATES REFERENCE TO LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE ON DRAWING E601.

GENERAL NOTES

1. SEE DRAWING E601 FOR LIGHTING FIXTURE AND LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULES.
2. CONTRACTOR SHALL CONFIRM PROPER OPERATION OF EXISTING LIGHT FIXTURES TO BE REUSED. ANY DAMAGED OR NON-FUNCTIONAL LIGHT FIXTURES WILL BE REPLACED. NEW FIXTURES SHALL MATCH EXISTING FIXTURE STYLE.
3. ALL CIRCUITS SHALL BE FED FROM PANEL MPA UNLESS OTHERWISE NOTED.
4. PROVIDE STAINLESS COVER PLATE FOR WIRING DEVICES WITHIN AUTOPSY SUITE AND THERMOPLASTIC COVER PLATES IN OTHER AREAS.
5. FIXTURES DESIGNATED WITH 'NL' ARE NIGHT LIGHTS TO REMAIN ON 24/7.
6. EXTEND EXTERIOR LIGHTING CIRCUITS THRU LIGHTING CONTACTOR (4-POLE) TO BE LOCATED ELECTRICAL 111. PROVIDE TIME CLOCK AND PHOTOCELL TO CONTROL LIGHTING CONTACTOR.

(#) KEYED NOTES

1. REPLACE EXISTING WALL PACK WITH NEW SPECIFIED WALL PACK ACCORDING TO FIXTURE SCHEDULE AND CONNECT TO NEW CIRCUIT. USE EXISTING LOCATIONS AND REUSE CONDUIT AND BOX.
2. REPLACE EXISTING EXTERIOR FIXTURE WITH NEW SPECIFIED FIXTURE ACCORDING TO FIXTURE SCHEDULE AND CONNECT TO NEW CIRCUIT. USE EXISTING LOCATIONS AND REUSE CONDUIT AND BOX.
3. OVERRIDE SWITCH FOR LOBBY AND VIEWING ROOM.



1 **FIRST FLOOR PLAN - ELECTRICAL LIGHTING - NEW WORK**
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE
6 3 0 6 12
SCALE: 3/16" = 1'-0"
UNIT OF MEASURE: FEET

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1643 MEANS STREET
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843.577.6073

ELECTRICAL LIGHTING PLAN

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY JLZ
CHECKED BY JLZ
DATE 07/17/2026
SCALE 3/16" = 1'-0"

E201

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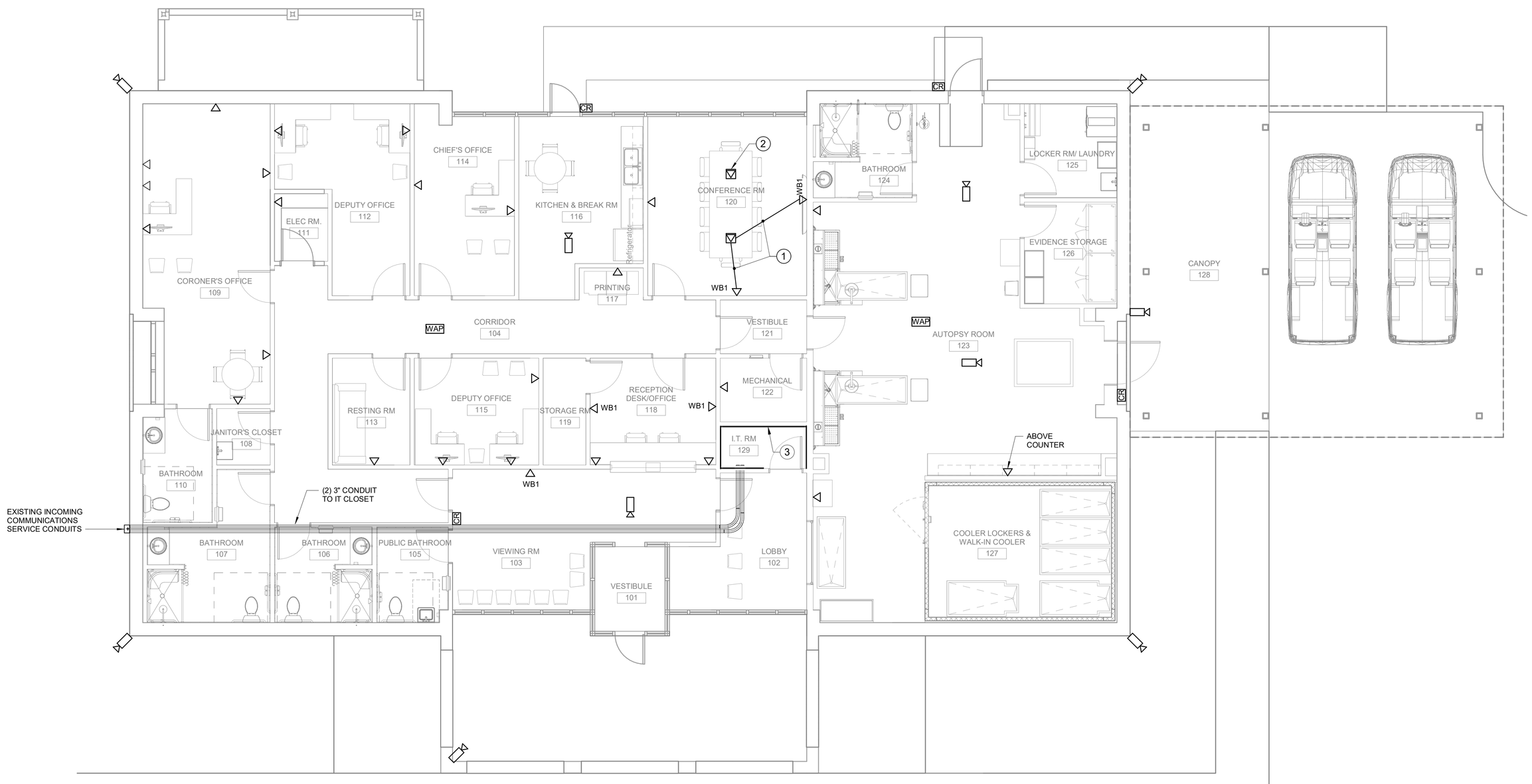
GENERAL NOTES

1. PROVIDE J-HOOKS SPACED 4' ON CENTER ALONG ENTIRE LENGTH OF CORRIDOR.
2. PROVIDE 2-GANG BACKBOX WITH 1-GANG MUD DRING AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR ALL COMMUNICATION DEVICES (DATA, WAP, ETC.) AND SECURITY CAMERAS.

(#) KEYED NOTES

1. EXTEND 1.25" CONDUIT FROM FLOOR BOX TO WALL BOX.
2. EXTEND 1.25" CONDUIT FROM FLOOR BOX TO NEAREST WALL AND EXTEND TO ABOVE ACCESSIBLE CEILING.
3. 8' VERTICAL X 3/4" FIRE RATED PLYWOOD BACKBOARD SECURED TO WALL STUDS AT 12" ABOVE FINISHED FLOOR FOR ENTIRE LENGTH OF WALL. PAINT ALL SIDES WITH OFF WHITE SEMI GLOSS LATEX PAINT. COVER FIRE RATING STAMP PRIOR TO PAINTING AND REMOVE TAPE WHEN DRY.



1 **FIRST FLOOR PLAN - SPECIAL SYSTEMS - NEW WORK**
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE
6 3 0 6 12
SCALE: 3/16" = 1'-0"
UNIT OF MEASURE: FEET

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RMF ENGINEERING INC.
CHARLESTON, SC
C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
LICENSED
Justin Lee Ziegler
NO. 31417
PROFESSIONAL
07/20/2026
EXPIRES
JUSTIN LEE ZIEGLER

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843.577.6073

ELECTRICAL SPECIAL SYSTEMS PLAN

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY JLZ
CHECKED BY JLZ
DATE 07/17/2026
SCALE 3/16" = 1'-0"

E301

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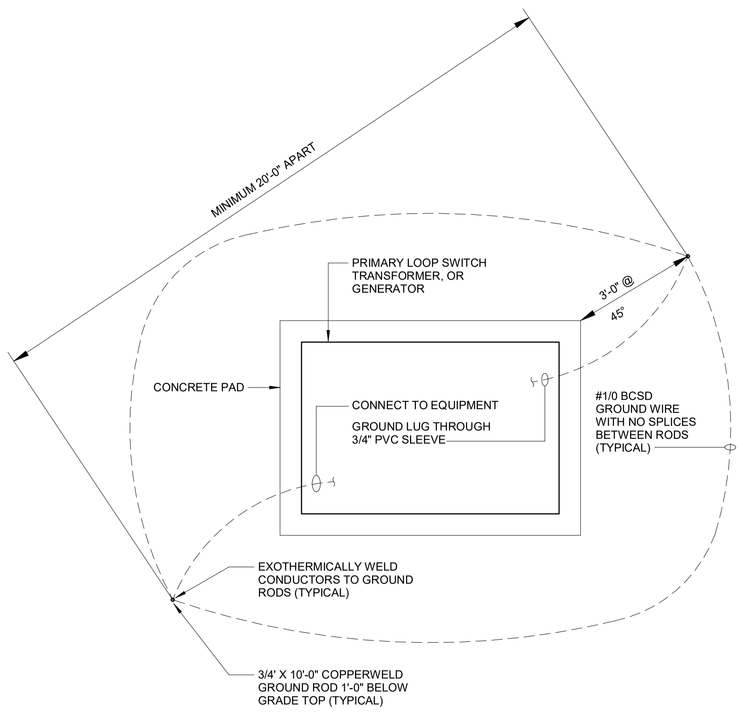
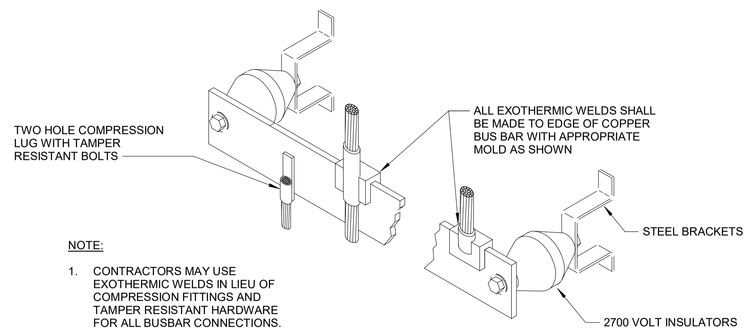


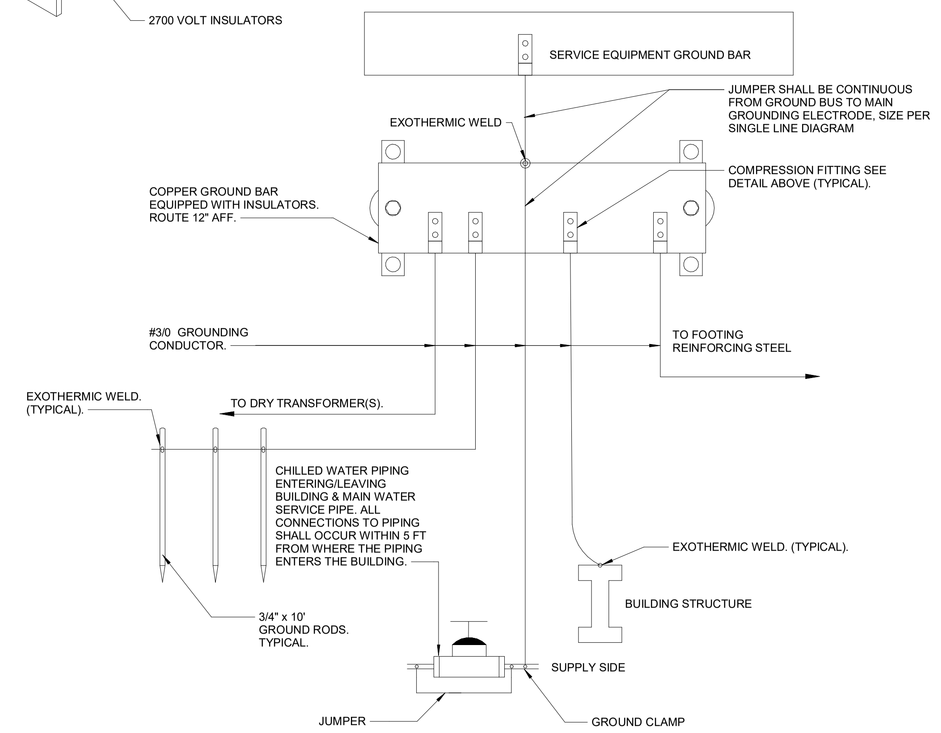
2 E - DETAIL - OUTDOOR EQUIPMENT GROUNDING

SCALE:N.T.S.



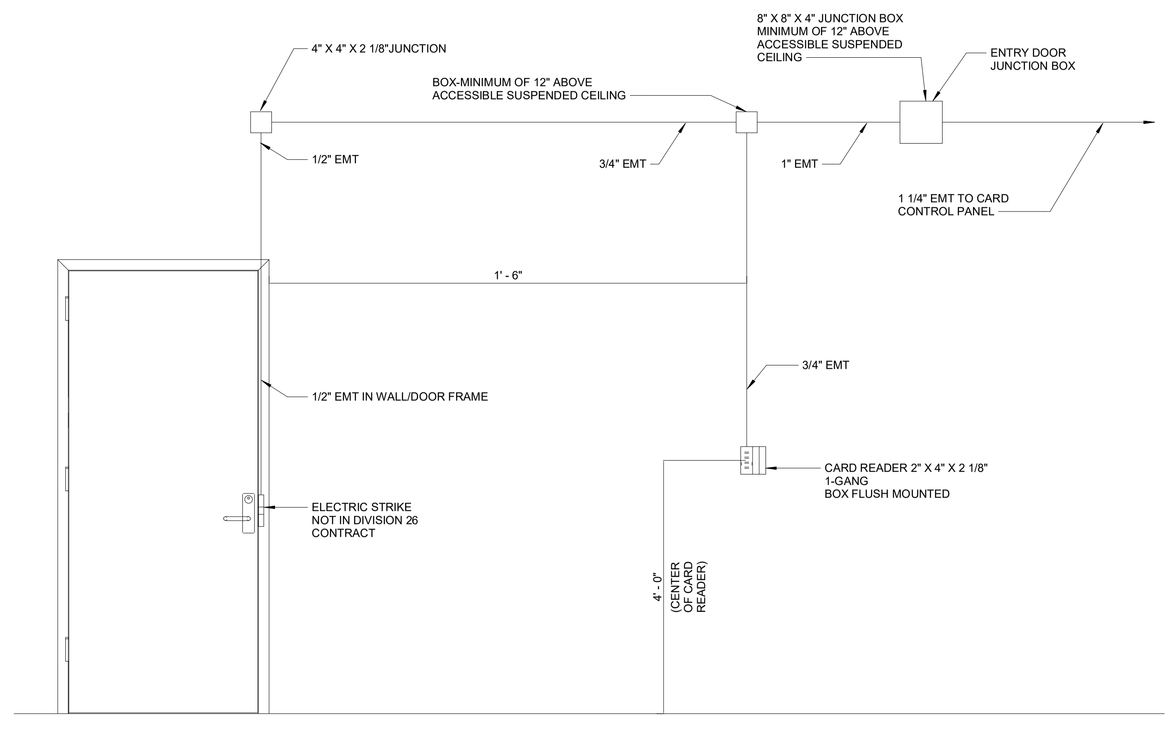
NOTE:

1. CONTRACTORS MAY USE EXOTHERMIC WELDS IN LIEU OF COMPRESSION FITTINGS AND TAMPER RESISTANT HARDWARE FOR ALL BUSBAR CONNECTIONS.



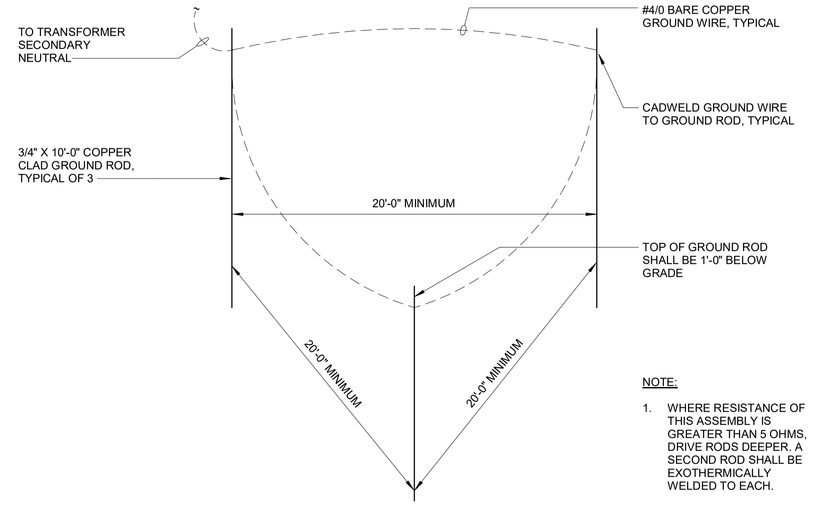
1 GROUND BAR MOUNTING

SCALE:N.T.S.



4 CARD READER ROUGH-IN DETAIL

SCALE:N.T.S.



NOTE:

1. WHERE RESISTANCE OF THIS ASSEMBLY IS GREATER THAN 5 OHMS, DRIVE RODS DEEPER. A SECOND ROD SHALL BE EXOTHERMICALLY WELDED TO EACH.

3 GROUND GRID

SCALE:N.T.S.

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ELECTRICAL DETAILS

SHEET NAME

PROJECT NUMBER	03240069.A0
DRAWN BY	JLZ
CHECKED BY	JLZ
DATE	07/17/2026
SCALE	N.T.S.

E401

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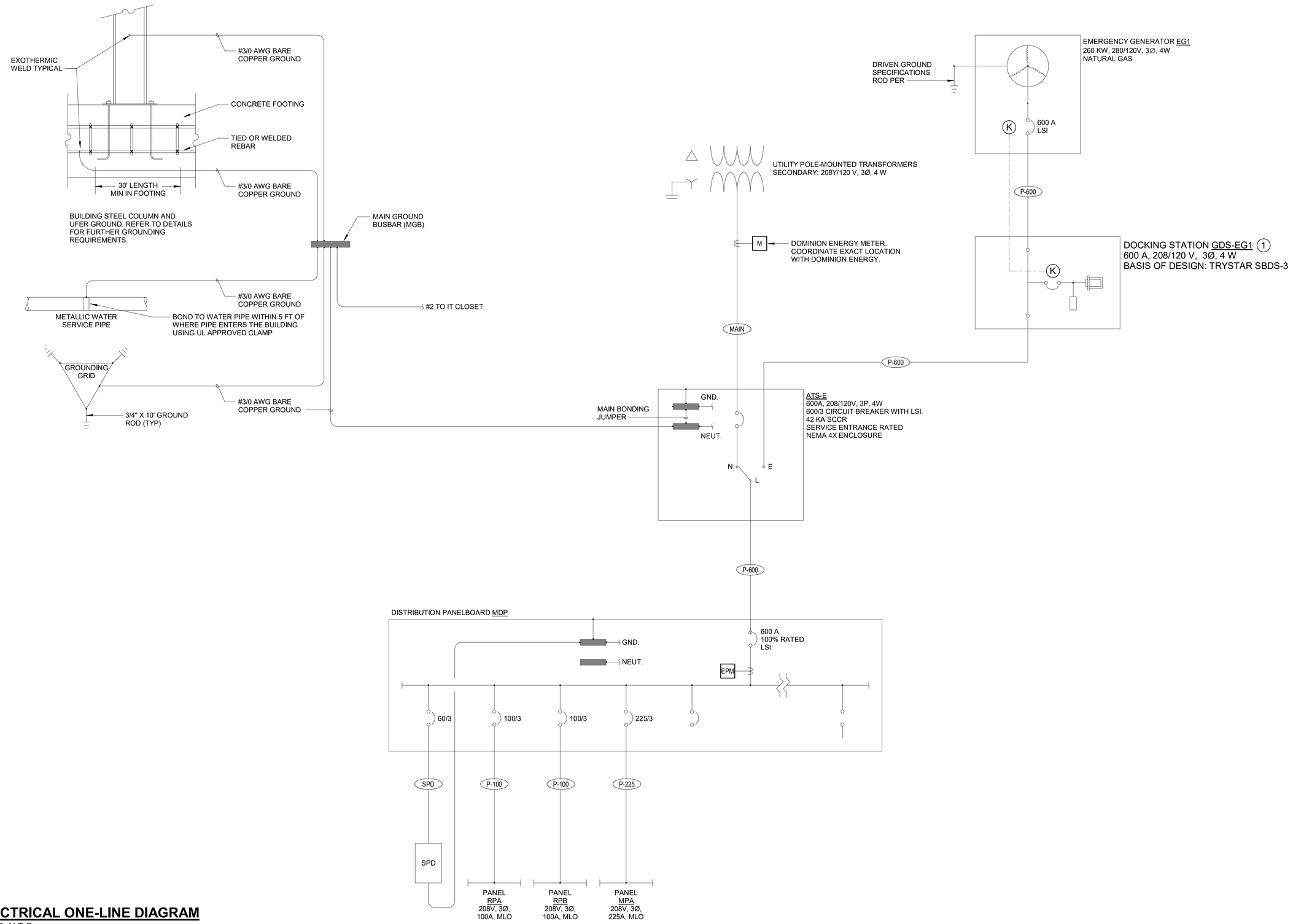

1 **ELECTRICAL ONE-LINE DIAGRAM**
SCALE: N.T.S.

ELECTRICAL TERMINOLOGY DEFINITIONS:

1. REFERENCES TO NEC (NATIONAL ELECTRICAL CODE) 700 LOADS ON THIS PROJECT ARE TO BE INTERPRETED AS MEANING 'EMERGENCY' LOADS AS DEFINED BY THE IBC (INTERNATIONAL BUILDING CODE) CHAPTER 27. THESE LOADS MAY ALSO BE REFERRED TO AS 'LIFE SAFETY' LOADS ON THIS PROJECT. THEY ARE ONE AND THE SAME.
2. NEC 701 LOADS REFERRED TO ON THIS PROJECT ARE TO BE INTERPRETED AS LEGALLY REQUIRED STAND-BY LOADS AS DEFINED BY THE NCSBC CHAPTER 27. THEY ARE ONE AND THE SAME.
3. NEC 702 LOADS REFERRED TO ON THIS PROJECT ARE TO BE INTERPRETED AS OPTIONAL LOADS AS DEFINED BY THE NEC ARTICLE 702. THESE LOADS ARE NEITHER 700 OR 701 LOADS.

GENERAL NOTES

1. ALL LOADS ARE NOT SHOWN ON THE SINGLE LINE DIAGRAM. REFER TO PANEL SCHEDULES FOR REMAINING LOADS.
2. VFD FEEDER AND MOTOR BRANCH CIRCUIT HAVE BEEN SIZED BASED UPON MOTOR HP SHOWN. THE EC SHALL VERIFY THE MAXIMUM OPERATING CURRENT MARKED ON THE VFD AND SIZE THE FEEDER AND BRANCH CIRCUIT CONDUCTOR AMPACITY PER NEC 430.122(A).
3. ALL DIGITAL METERING SHALL BE TYPICAL MODBUS NETWORK SYSTEM. CONNECT TO BUILDING AUTOMATION/MANAGEMENT SYSTEM (DDCP).
4. ALL CURRENT METERING TRANSFORMERS SHALL BE CONNECTED AS SHOWN AND INSTALLED IN 3/4" MINIMUM CONDUIT.

(#) KEYED NOTES

1. GENERATOR DOCKING STATION SHALL INCLUDE THE FOLLOWING ACCESSORIES:
   A. NEMA 5-20R GFI BATTERY CHARGER RECEPTACLE
   B. NEMA L5-30R JACKET WATER HEATER RECEPTACLE
   C. TWO WIRE AUTO START
   D. 100% GROUND

FEEDER SCHEDULE
(600V UNLESS OTHERWISE NOTED)

LEGEND:
P - PANEL
M - MOTOR
S - SERVICE FEEDER
SPD - SURGE PROTECTION DEVICE

EXAMPLE:
P-100 - 100A PANEL FEEDER
M-30 - 30HP MOTOR FEEDER

	COPPER CONDUCTORS			
LABEL	SETS	SIZE	GROUND	CONDUIT
MAIN	2	4#350	-	3"
P-600	2	4#350	#2/0	3"
SPD	1	4#6	#10	1 1/4"
P-100	1	4#1/0	#6	2"
P-225	1	4#4/0	#4	2 1/2"

EQUIPMENT CONNECTION SCHEDULE

DESIGNATION	FLA	KW	HP	VOLTAGE	NO. OF POLES	FEEDER	PANEL	CIRCUIT	DISCONNECT (NOTE 1)	NOTES
DEDICATED OUTDOOR AIR UNITS										
AHU-1	86.1	-	-	208	3	3#1/0 & 1#6 G - 2" C	MDP	11	200/3/NF/4X	2
DOAU-1	81.9	-	-	208	3	3#1/0 & 1#6 G - 2" C	MDP	12	200/3/NF/4X	2
FANS										
EF-1	-	-	1/8	120	1	2#12 & 1#12 G - 0.75" C	MPA	13	30/1/NF	2
EF-2	-	-	2	208	3	3#12 & 1#12 G - 0.75" C	MPA	15,17,19	30/3/NF/3X	2
EF-3	-	-	1/8	120	1	2#12 & 1#12 G - 0.75" C	RPB	25	30/1/NF	2
EF-4	-	-	1/8	120	1	2#12 & 1#12 G - 0.75" C	RPB	27	30/1/NF	2
SAV-1	-	16.5	-	208	3	3#4 & 1#6 G - 1.25" C	MDP	5	60/3/NF	
SAV-2	-	6.5	-	208	3	3#10 & 1#10 G - 0.75" C	MPA	26,28,30	30/3/NF	
PUMP										
RCP-1	-	-	1/10	120	1	2#12 & 1#12 G - 0.75" C	RPB	7	30/1/NF	2
SPLIT SYSTEM										
SSCU-1/FCU-1	11.0	-	-	208	2	2#12 & 1#12 G - 0.75" C	RPB	22,24	30/2/NF/4X	2,6
VAV UNITS										
VAV-1	-	1.5	-	208	3	3#12 & 1#12 G - 0.75" C	MPA	2,4,6	30/3/NF	2
VAV-2	-	14.0	-	208	3	3#6 & 1#8 G - 1.25" C	MDP	6	60/3/NF	
VAV-3	-	4.0	-	208	3	3#12 & 1#12 G - 0.75" C	MPA	8,10,12	30/3/NF	2
VAV-4	-	4.0	-	208	3	3#12 & 1#12 G - 0.75" C	MPA	14,16,18	30/3/NF	2
VAV-5	-	8.0	-	208	3	3#10 & 1#10 G - 0.75" C	MPA	20,22,24	30/3/NF	2
WALK-IN COOLER										
CU-1	38.0	-	-	208	2	3#6 & 1#10 G - 1" C	RPB	2,4	60/3/NF/3R	2,5
HWH-1	2.7	-	-	120	1	2#12 & 1#12 G - 0.75" C	RPB	6	30/1/NF	2,5
WATER HEATER										
HWH-1	10.0	-	-	120	1	2#12 & 1#12 G - 0.75" C	RPB	5	30/1/NF	2

CONNECTION SCHEDULE NOTES

1. IF EQUIPMENT IS PROVIDED WITH INTEGRAL DISCONNECT SWITCH, AN ADDITIONAL DISCONNECT SWITCH SHALL NOT BE REQUIRED UNLESS OTHERWISE NOTED.
2. LOCATE DISCONNECT SWITCH OR VFD IN ACCESSIBLE LOCATION WITHIN SIGHT OF EQUIPMENT PER NEC REQUIREMENTS.
3. CIRCUIT EQUIPMENT THRU VFD/STARTER. SEE MECHANICAL DRAWINGS FOR VFD/STARTER LOCATION.
4. DISCONNECT SWITCH AND/OR CONTROLLER INTEGRAL TO EQUIPMENT.
5. COORDINATE INSTALLATION WITH WALK-IN COOLER MANUFACTURER.

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SOUTH CAROLINA LICENSED — NO. 31417 PROFESSIONAL — EXPIRES 07/20/2026 — JUSTIN LEE ZIEGLER
SEALS

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ELECTRICAL ONE-LINE DIAGRAM

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY JLZ
CHECKED BY JLZ
DATE 07/17/2026
SCALE 12" = 1'-0"

E501

7/20/2026 4:35:13 PM

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	SOURCE INFORMATION				ELECTRICAL INFORMATION			MOUNTING	NOTES	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ALTERNATE MANUFACTURERS
		TYPE	LUMENS	COLOR TEMP (K)	MIN CRI	LOAD (W)	VOLTAGE	POWER SOURCE					
A1	3" WALL-MOUNTED CYLINDER	LED	1150	4000	80	12.0	UNV	0-10V DIMMING DRIVER (10%)	SURFACE, WALL		LUMEX	UD420-12W-40-WHITE-4000K-120-277V-BRONZE-DOWNLIGHT ONLY	HE WILLIAMS W4CR SERIES LUMINIS SYP400 SERIES PRESCOLITE LTC-4RD SERIES
A1E	3" WALL-MOUNTED CYLINDER WITH EMERGENY BATTERY BACKUP	LED	1150	4000	80	12.0	UNV	0-10V DIMMING DRIVER (10%)	SURFACE, WALL		LUMEX	UD420-12W-40-WHITE-4000K-120-277V-BRONZE-DOWNLIGHT ONLY-EXTERNAL BATTERY PACK	HE WILLIAMS W4CR SERIES LUMINIS SYP400 SERIES PRESCOLITE LTC-4RD SERIES
D1	6" RECESSED DOWNLIGHT	LED	1000	3500	90	11.6	UNV	0-10V DIMMING DRIVER (1%)	RECESSED, CEILING		PRESCOLITE	LFR-6RD-M-10L-35K-9-WD-DM1	HALO HC6 SERIES HE WILLIAMS 6LDR SERIES LITHONIA LBR6 SERIES
D1E	6" RECESSED DOWNLIGHT WITH EMERGENCY BATTERY BACKUP	LED	1000	3500	90	11.6	UNV	0-10V DIMMING DRIVER (1%)	RECESSED, CEILING		PRESCOLITE	LFR-6RD-M-10L-35K-9-WD-DM1-EM	HALO HC6 SERIES HE WILLIAMS 6LDR SERIES LITHONIA LBR6 SERIES
EX	EXISTING FIXTURE TO REMAIN	-	-	-	-	-	120	-	-		-	-	-
ME	4' STRIP LIGHT WITH EMERGENCY BATTERY BACKUP	LED	4500	3500	80	31.2	UNV	0-10V DIMMING DRIVER (10%)	SURFACE, CEILING		COLUMBIA	MPS-4-35-ML-F-W-ED-U-ELL14	ELITE OEC SERIES LITHONIA CSS SERIES METALUX SNX SERIES
O1E	EXTERIOR WALLPACK, UL LISTED FOR WET LOCATIONS WITH EMERGENCY BATTERY PACK.	LED	750	4000	80	10.0	UNV	0-10V DIMMING DRIVER (10%)	SURFACE, WALL (7'-6") AFF UON		MCGRAW-EDISON	GK0-PB-1-A-740-U-T4W	EXO LNC SERIES GARDCO GWS SERIES HI-TEK WDGE1 SERIES
R1	2'X2' FLAT PANEL	LED	2750	3500	80	27.0	UNV	0-10V DIMMING DRIVER (1%)	RECESSED, CEILING		COLUMBIA	CBT-22-B-LSCS-EDD	ELITE FPL1 SERIES LITHONIA CPX SERIES METALUX FP SERIES
R1E	2'X2' FLAT PANEL WITH EMERGENCY BATTERY BACKUP	LED	2750	3500	80	27.0	UNV	0-10V DIMMING DRIVER (1%)	RECESSED, CEILING		COLUMBIA	CBT-22-B-LSCS-EDD-ELL14	ELITE FPL1 SERIES LITHONIA CPX SERIES METALUX FP SERIES
R4	2X4' FLAT PANEL	LED	4800	3500	80	30.0	UNV	0-10V DIMMING DRIVER (10%)	RECESSED, CEILING		COLUMBIA	NBT-24-35-LO48-G-SF-ED1-U-AM	ELITE FPL1 SERIES LITHONIA CPX SERIES METALUX FP SERIES
R4E	2X4' FLAT PANEL WITH EMERGENCY BATTERY BACKUP	LED	4800	3500	80	30.0	UNV	0-10V DIMMING DRIVER (10%)	RECESSED, CEILING		COLUMBIA	NBT-24-35-LO48-G-SF-ED1-U-AM-ELL14	ELITE FPL1 SERIES LITHONIA CPX SERIES METALUX FP SERIES
V	4' VAPORTIGHT FIXTURE	LED	3400	4000	80	26.2	UNV	0-10V DIMMING DRIVER (10%)	SURFACE, CEILING		COLUMBIA	LXEM-4-40-LW-SFP-ED-U	ELITE OWVS1 SERIES FAILSAFE VRVT1 SERIES METALUX VT3 SERIES
VE	4' VAPORTIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP	LED	3400	4000	80	26.2	UNV	0-10V DIMMING DRIVER (10%)	SURFACE, CEILING		COLUMBIA	LXEM-4-40-LW-SFP-ED-U-ELL14	ELITE OWVS1 SERIES FAILSAFE VRVT1 SERIES METALUX VT3 SERIES
X	EDGE LIT EXIT SIGN WITH SINGLE- OR DOUBLE-FACE AS INDICATED ON THE DRAWINGS, RED LETTERS, MIRRORED BACKGROUND, UNIVERSAL ARROWS, AND UNIVERSAL MOUNTING. COMPLY WITH UL 924.	LED	-	-	-	3.4	UNV	-	SURFACE, WALL, OR CEILING PER DRAWINGS		ISOLITE	ELT2-EM-R-1M/2M-FT-BA-MRC-**-SD	EMERGI-LITE X40 SERIES BEGHELLI CRV SERIES LITHONIA EDG SERIES SURE-LITES SCX SERIES

LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE

DESIGNATION	SPACE DESCRIPTION	SEQUENCE OF OPERATION	OCCUPANCY SENSOR (NOTE 1)	VACANCY SENSOR (NOTE 1)	TIMECLOCK (NOTE 2)	PHOTOCELL (NOTE 3)	PHOTOSENSOR	LOCAL CONTROLS (NOTE 4)	NETWORK CONTROLS (NOTE 5)	NOTES
LD1	OFFICE MEETING,	- MANUAL ON TO FULL OUTPUT. - LOCAL 0-10V DIMMING CONTROLS. - AUTOMATIC OFF WITHIN 15 MINUTES OF NO OCCUPANT ACTIVITY.	No	Yes	No	No	No	Yes	No	
LD2	AUTOPSY	- MANUAL ON TO FULL OUTPUT. - LOCAL 0-10V DIMMING CONTROLS. - EMERGENCY LIGHTS ACTIVATE UPON LOSS OF NORMAL POWER.	No	No	No	No	No	Yes	No	
LE1	EXTERIOR PATHWAY, ENTRANCE	DUSK OPERATION - AUTOMATIC ON VIA LIGHTING CONTROL PANEL TIMECLOCK WITH PHOTOCELL OVERRIDE DUE TO DARKNESS. DAWN OPERATION - AUTOMATIC OFF VIA LIGHTING CONTROL PANEL TIMECLOCK WITH PHOTOCELL OVERRIDE DUE TO DARKNESS. DAYTIME OPERATION - AUTOMATIC ON VIA PHOTOCELL DUE TO DARKNESS EMERGENCY LIGHTS - ON FULL LIGHT OUTPUT UPON LOSS OF NORMAL POWER	No	No	Yes	Yes	No	No	Yes	
LS1	MECHANICAL, ELECTRICAL, COMMUNICATIONS	- MANUAL ON TO FULL OUTPUT. - MANUAL OFF. - LIGHTS DESIGNATED AS EMERGENCY ACTIVATE UPON LOSS OF POWER.	No	No	No	No	No	Yes	No	
LS2	RESTROOM	- AUTOMATIC ON TO FULL OUTPUT. - AUTOMATIC OFF WITHIN 15 MINUTES OF NO OCCUPANT ACTIVITY. - LIGHTS DESIGNATED AS EMERGENCY ACTIVATE UPON LOSS OF POWER.	Yes	No	No	No	No	Yes	No	
LS3	STORAGE, JANITOR	- MANUAL ON TO FULL OUTPUT. - AUTOMATIC OFF WITHIN 15 MINUTES OF NO OCCUPANT ACTIVITY.	No	Yes	No	No	No	Yes	No	
LS4	LOBBY, VESTIBULE, VIEWING, CORRIDOR	- AUTOMATIC ON TO FULL OUTPUT. - LOCAL 0-10V CONTROLS. - AUTOMATIC OFF WITHIN 15 MINUTES OF NO OCCUPANT ACTIVITY. - LIGHTS DESIGNATED AS EMERGENCY ACTIVATE UPON LOSS OF POWER. - LIGHTS DESIGNATED AS NIGHT LIGHTS 'NL' SHALL REMAIN ON 24/7.	Yes	No	No	No	No	Yes	No	

LIGHTING FIXTURE SCHEDULE NOTES

GENERAL:

1. EQUIPMENT AND MATERIALS, EXCEPT AS OTHERWISE SPECIFIED HEREIN, SHALL BE NEW AND SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNATED MANUFACTURER FOR THAT CATALOG NUMBER.
2. MATERIALS AND EQUIPMENT SHALL BE UL LISTED, SHALL MEET UL REQUIREMENTS, AND SHALL BEAR THE UL LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY UL.
3. VERIFY CEILING TRIM COMPATIBILITY OF LUMINAIRES. LUMINAIRE LOCATIONS, RECESS DEPTHS, AND FINAL VOLTAGES PRIOR TO ORDERING LUMINAIRES.
4. PROVIDE APPROVED FIRE RATED ENCLOSURES FOR ALL LUMINAIRES LOCATED IN FIRE RATED CEILING.

DEFINITIONS:

1. SUBSTITUTIONS: CHANGES IN PRODUCTS, MATERIALS, AND/OR EQUIPMENT REQUIRED BY CONTRACT DOCUMENTS PROPOSED BY CONTRACTOR DURING BIDDING OR AFTER AWARD OF CONTRACT.
2. SHOP DRAWINGS: DETAILED CONSTRUCTION AND FABRICATION DRAWINGS PRODUCED BY LUMINAIRE MANUFACTURER, THAT SHOW PROPOSED MATERIALS, SHAPE, DIMENSIONS AND ASSEMBLY OF PARTS AND HOW UNIT WILL BE INSTALLED. THIS INCLUDES EXACT DIMENSIONS OF COMPLETE LUMINAIRE LENGTHS, PLACEMENT AND INSTALLATION INFORMATION, FEED LOCATIONS, OR DRIVER INFORMATION, FINISH AND MATERIALS INFORMATION AND DETAILS. PROVIDE SHOP DRAWINGS AFTER ACCEPTANCE OF SPECIFICATION CUTSHEETS IN SUBMITTAL FORMAT.

SUBMITTALS:

1. SUBMITTALS SHALL INCLUDE ALL SPECIFIED LUMINAIRES INDICATED ON LUMINAIRE SCHEDULE.
2. SUBMITTALS SHALL BE PREPARED IN LINE-BY-LINE FORMAT CORRESPONDING TO SPECIFICATIONS AND SHALL INDICATE COMPLIANCE WITH EACH REQUIREMENT SPECIFIED HEREIN ON LUMINAIRE SCHEDULE AND INDICATED ON LIGHTING DRAWINGS.
3. REQUIRED SUBMITTALS ARE AS FOLLOWS:

   A. LUMINAIRES
   B. DRIVERS
   C. LIGHTING CONTROL SYSTEM
   D. LOW VOLTAGE TRANSFORMERS

4. SUBMITTALS SHALL INCLUDE FOLLOWING INFORMATION:

   A. MANUFACTURER'S DATA

      a. NAME OF MANUFACTURER.
      b. COMPLETE CATALOG NUMBER FOR SPECIFIED PRODUCT.
      c. PHOTOMETRIC DATA FROM INDEPENDENT TESTING LABORATORY, IF APPLICABLE.
      d. CUT-SHEETS OF SPECIFIED PRODUCT AND SPECIFIED ACCESSORIES SUCH AS LOUVERS, LENSES, SHADES, CONTROL STATIONS, ETC. WITH DIMENSIONS CLEARLY INDICATED.
      e. DETAILED SHOP DRAWINGS BY MANUFACTURER FOR EACH CUSTOM OR NON-STANDARD LUMINAIRE INDICATING FINISHED DIMENSIONS, MATERIALS, FINISHES, ETC.

5. PROJECT DATA:

   A. NAME OF PROJECT
   B. LOCATION OF PROJECT

SUBSTITUTIONS:

1. LIGHTING DESIGN FOR THIS PROJECT WAS BASED UPON LIGHTING EQUIPMENT TYPES AND MANUFACTURERS SPECIFIED. IF SUBSTITUTION OF LIGHTING EQUIPMENT OR MATERIALS IS DESIRED, PROVIDE SUBSTITUTION REQUEST SUBMITTAL AS DEFINED HEREIN.
2. SUBSTITUTION REQUEST SUBMITTAL REQUIREMENTS:

   A. MUST BE RECEIVED BY ENGINEER FOR APPROVAL 14 DAYS PRIOR TO BID DATE. FAILURE TO SUBMIT WITHIN THAT DEADLINE CONSTITUTES GUARANTEE THAT SPECIFIED FIXTURES WILL BE SUPPLIED.

   B. SUBMIT AT LEAST 3 COPIES OF SUBSTITUTION REQUEST SUBMITTAL AND PROVIDE OLLOWING FOR BOTH SPECIFIED PRODUCT AND PROPOSED SUBSTITUTION PRODUCT:

      a. MANUFACTURER'S DATA AS DEFINED IN SUBMITTAL SECTION.
      b. PROJECT DATA AS DEFINED IN SUBMITTAL SECTION.
      c. IF REQUESTED BY ENGINEER, NON-RETURNABLE, OPERATING SAMPLE OF PROPOSED SUBSTITUTION. NO PAYMENT SHALL BE REQUIRED FOR SAMPLES. SAMPLES SHALL BE SUPPLIED WITH STANDARD CORD AND PLUG FOR 120 VOLT OPERATION.

3. PROVIDE DETAILED COMPARISON OF SIGNIFICANT QUALITIES OF PROPOSED SUBSTITUTION WITH THOSE OF SPECIFIED PRODUCT. SIGNIFICANT QUALITIES MAY INCLUDE ELEMENTS SUCH AS PHOTOMETRY, HOUSING DIMENSIONS, MATERIAL COMPOSITION AND FINISH, AND VISUAL APPEARANCE.
4. PROVIDE STATEMENT INDICATING SUBSTITUTION'S EFFECT ON CONTRACTOR'S CONSTRUCTION SCHEDULE COMPARED TO SCHEDULE WITHOUT APPROVAL OF SUBSTITUTION. INDICATE EFFECT OF PROPOSED SUBSTITUTION ON OVERALL CONTRACT TIME.
5. PROVIDE CONTRACTOR'S CERTIFICATION THAT PROPOSED SUBSTITUTION CONFORMS TO REQUIREMENTS IN CONTRACT DOCUMENTS IN EVERY RESPECT AND IS APPROPRIATE FOR APPLICATIONS INDICATED.
6. PROVIDE CONTRACTOR'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME THAT MAY SUBSEQUENTLY BECOME NECESSARY BECAUSE OF FAILURE OF SUBSTITUTION TO PERFORM ADEQUATELY.
7. PROVIDE "CONTRACTOR NET" UNIT PRICE FOR SPECIFIED LUMINAIRE AND PROPOSED SUBSTITUTION.
8. MODIFICATIONS REQUIRED TO ANY BUILDING EQUIPMENT OR SYSTEM DUE TO SUBSTITUTION OF LUMINAIRE TYPE SHALL BE DESIGNED AND CONSTRUCTED AT CONTRACTOR'S EXPENSE.

LIGHTING SEQUENCE OF OPERATIONS SCHEDULE NOTES

1. OCCUPANCY AND VACANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE.
2. TIME CLOCK CONTROL ACCOMPLISHED VIA LIGHTING CONTROL PANEL. TIME SCHEDULING VIA INTERFACE TO BUILDING AUTOMATION SYSTEMS.
3. PHOTOCELLS FOR CONTROL OF EXTERIOR LIGHTS VIA LIGHTING CONTROL PANEL.
4. LOCAL CONTROLS ARE INDEPENDENT OF BUILDING LIGHTING CONTROL PANEL OR DIMMING SYSTEM
5. NETWORK CONTROLS ARE INTEGRATED WITH LIGHTING CONTROL PANEL OR DIMMING SYSTEMS
6. MULTI-ZONE DIMMING CONTROL SYSTEM WITH EACH CIRCUIT HAVING INDIVIDUAL CONTROL ZONE.
7. LIGHTING OPERATION CONTROLLED THROUGH AV SYSTEM WITHIN SPACE ALONG WITH OTHER LIGHTING CONTROLS.

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC.
CHARLESTON, SC
C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
LICENSED
Justin Lee Ziegler
NO. 31417
PROFESSIONAL
ENGINEER
07/20/2026
JUSTIN LEE ZIEGLER

SEALS

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NOTES:

RMF ENGINEERING, INC.
194 SEVEN FARMS DRIVE
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CHARLESTON, SC 29492
P: 843-971-9639 F: 843-971-9641

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY
CORONER'S OFFICE

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

ELECTRICAL LIGHTING SCHEDULE

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY JLZ
CHECKED BY JLZ
DATE 07/17/2026
SCALE

E601

7/20/2026 4:35:17 PM

PANELBOARD: MPA

VOLTAGE: 208/120 Wye
PHASES: 3
WIRES: 4
BUS RATING: 250 A
MAIN TYPE: MLO
SCCR: 42,000
FED FROM: MDP
LOCATION: ELEC RM. 111
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
FEED THRU LUGS: No
SECTION: 1 OF 1
SURGE PROTECTION: No
POWER MONITOR: No

NOTES:

WIRE SIZE	LOAD DESCRIPTION	POLES	TRIP	TYPE	CKT	A		B		C		CKT	TYPE	TRIP	POLES	LOAD DESCRIPTION	WIRE SIZE
	LTG OFFICE,BREAK,CONF	1	20 A		1	0.91	0.50					2					
	LTG LOBBY,VIEWING,CORR	1	20 A		3			0.64	0.50			4		15 A	3	VAV-1	SEE E501
	LTG REST,OFF,RECEPT,TLT	1	20 A		5					0.71	0.50	6					
	LTG AUTOPSY	1	20 A		7	0.40	1.33					8					
	LTG EXTERIOR BLDG	1	20 A	LCP	9			0.34	1.33			10		15 A	3	VAV-3	SEE E501
	LTG EXTERIOR SITE	1	20 A	LCP	11					2.21	1.33	12					
SEE E501	EF-1	1	20 A		13	0.50	1.33					14					
SEE E501	EF-2	3	20 A		15			0.90	1.33			16		15 A	3	VAV-4	SEE E501
					17					0.90	1.33	18					
					19	0.90	2.67					20					
--	SPARE	1	20 A	--	21			0.00	2.67			22		30 A	3	VAV-5	SEE E501
--	SPARE	1	20 A	--	23					0.00	2.67	24					
--	SPARE	1	20 A	--	25	0.00	2.17					26					
--	SPARE	1	20 A	--	27			0.00	2.17			28		25 A	3	SAV-2	SEE E501
--	SPARE	1	20 A	--	29					0.00	2.17	30					
--	SPARE	1	20 A	--	31	0.00	0.00					32	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	33			0.00	0.00			34	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	35					0.00	0.00	36	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	37	0.00	0.00					38	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	39			0.00	0.00			40	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	41					0.00	0.00	42	--	20 A	1	SPARE	--
					TOTAL CONNECTED PHASE LOADS:	10.71 kVA		9.88 kVA		11.81 kVA							

BREAKER TYPE LEGEND:

GF - INDICATES CB IS GROUND FAULT TYPE (5mA FOR PERSONNEL).
HT - INDICATES CB IS GROUND FAULT TYPE (30 mA FOR EQUIPMENT).
LCP - INDICATES CIRCUIT CONNECTED THRU LIGHTING CONTROL PANEL.
LO - INDICATES CB EQUIPPED WITH "LOCK-ON" DEVICE.
ST - INDICATES CB EQUIPPED WITH SHUNT TRIP DEVICE.

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
HVAC	27.20	100.00%	27.20	**TOTAL CONNECTED LOAD:** 32.40 kVA
Lighting	5.21	100.00%	5.21	**TOTAL ESTIMATED DEMAND LOAD:** 32.40 kVA
				TOTAL CONNECTED CURRENT: 89.94 A
				TOTAL ESTIMATED DEMAND CURRENT: 89.94 A

PANELBOARD: RPB

VOLTAGE: 208/120 Wye
PHASES: 3
WIRES: 4
BUS RATING: 100 A
MAIN TYPE: MLO
SCCR: 42,000
FED FROM: MDP
LOCATION: MECHANICAL 122
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
FEED THRU LUGS: No
SECTION: 1 OF 1
SURGE PROTECTION: No
POWER MONITOR: No

NOTES:

WIRE SIZE	LOAD DESCRIPTION	POLES	TRIP	TYPE	CKT	A		B		C		CKT	TYPE	TRIP	POLES	LOAD DESCRIPTION	WIRE SIZE
	REC ELEC,ATP,IT	1	20 A		1	0.46	3.95					2		40 A	2	WALK-IN COOLER CU-1	SEE E501
	HVAC CONTROLS	1	20 A		3			0.50	3.95			4					
SEE E501	HWH-1	1	20 A		5					1.20	0.17	6		15 A	1	WALK-IN COOLER FCU-2	SEE E501
SEE E501	RCP-1	1	20 A		7	0.04	0.72					8		20 A	1	REC AUTOPSY	
	REC IT	1	20 A		9			0.36	0.72			10		20 A	1	REC AUTOPSY	
	REC IT	1	20 A		11					0.36	0.72	12		20 A	1	REC BATH/LAUNDRY/STORAGE	
	SECURITY	1	20 A		13	0.50	1.66					14		20 A	1	REC REFRIGERATOR	
	REC EXTERIOR	1	20 A		15			0.54	1.04			16		20 A	2	REC FREEZER	3#12,1#12 G,0.75"
	6A STATION	1	20 A		17					1.00	1.04	18					
	6A STATION DISPOSER	1	20 A		19	1.00	1.32					20	GF	20 A	1	REC WASHER	
	7A STATION	1	20 A		21			1.00	1.14			22		20 A	2	SSCU-1/FCU-1	SEE E501
	7A STATION DISPENSOR	1	20 A		23					0.18	1.14	24					
SEE E501	EF-3	1	20 A		25	0.50	0.00					26	--	20 A	1	SPARE	--
SEE E501	EF-4	1	20 A		27			0.50	0.00			28	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	29					0.00	0.00	30	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	31	0.00	0.00					32	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	33			0.00	0.00			34	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	35					0.00	0.00	36	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	37	0.00	0.00					38	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	39			0.00	0.00			40	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	41					0.00	0.00	42	--	20 A	1	SPARE	--
					TOTAL CONNECTED PHASE LOADS:	10.15 kVA		9.75 kVA		5.81 kVA							

BREAKER TYPE LEGEND:

GF - INDICATES CB IS GROUND FAULT TYPE (5mA FOR PERSONNEL).
HT - INDICATES CB IS GROUND FAULT TYPE (30 mA FOR EQUIPMENT).
LCP - INDICATES CIRCUIT CONNECTED THRU LIGHTING CONTROL PANEL.
LO - INDICATES CB EQUIPPED WITH "LOCK-ON" DEVICE.
ST - INDICATES CB EQUIPPED WITH SHUNT TRIP DEVICE.

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
REC	3.78	100.00%	3.78	**TOTAL CONNECTED LOAD:** 25.71 kVA
Appliance	14.33	75.00%	10.75	**TOTAL ESTIMATED DEMAND LOAD:** 22.13 kVA
Equipment	4.28	100.00%	4.28	**TOTAL CONNECTED CURRENT:** 71.36 A
HVAC	3.32	100.00%	3.32	**TOTAL ESTIMATED DEMAND CURRENT:** 61.42 A

DISTRIBUTION PANEL: MDP

VOLTAGE: 208/120 Wye
PHASES: 3
WIRES: 4
BUS RATING: 600 A
MAIN TYPE: 600 A/3P MCB
SCCR: 42,000
FED FROM: UTILITY TRANSFORMER
LOCATION: ELEC RM. 111
MOUNTING: SURFACE
ENCLOSURE TYPE 1
SURGE PROTECTION: Yes
POWER MONITOR: Yes

NOTES:

1. PANELBOARD SHALL BE SERVICE ENTRANCE RATED.
2. MAIN CIRCUIT BREAKER SHALL BE 100% RATED WITH AJDUSTABLE LSI SETTINGS.
3. PANELBOARD AND CIRCUIT BREAKERS SHALL BE FULL RATED SCCR.

CKT	CIRCUIT DESCRIPTION	FRAME	TRIP	POLES	TYPE	Load	WIRE SIZE	REMARKS
1	SURGE PROTECTION DEVICE	100	60	3	--	0.00	--	
2	SPACE (100 A PREPARED SPACE)	--	--	3	--	--	--	
3	PANEL RPA	100	100	3		20.24	SEE 501	
4	PANEL RPB	100	100	3		25.71	SEE 501	
5	SAV-1	100	60	3		16.50	SEE E501	
6	VAV-2	100	50	3		14.00	SEE E501	
7	SPACE (100 A PREPARED SPACE)	--	--	3	--	--	--	
8	SPACE (100 A PREPARED SPACE)	--	--	3	--	--	--	
9	PANEL MPA	250	225	3	LSI	32.40	SEE 501	
10	SPACE (250 A PREPARED SPACE)	--	--	3	--	--	--	
11	AHU-1	250	110	3	LSI	28.51	SEE E501	
12	DOAU-1	250	110	3	LSI	26.82	SEE E501	
					TOTAL CONNECTED LOAD:	164.18 kVA		
					TOTAL CONNECTED CURRENT:	455.72 A		

BREAKER TYPE LEGEND:

GF - INDICATES CB IS GROUND FAULT TYPE (5 mA FOR PERSONNEL).
HT - INDICATES CB IS GROUND FAULT TYPE (30 mA FOR EQUIPMENT).
LO - INDICATES CB WITH "LOCK-ON" DEVICE.
LSI - INDICATES CB WITH ADJUSTABLE LSI SETTINGS.
LSIA - INDICATES CB WITH ADJUSTABLE LSI SETTINGS AND GROUND FAULT ALARM.
LSIG - INDICATES CB WITH ADJUSTABLE LSI AND GROUND FAULT SETTINGS.
ST - INDICATES CB WITH SHUNT TRIP DEVICE.

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Appliance	14.33	75.00%	10.75	**TOTAL CONNECTED LOAD:** 164.18 kVA
Equipment	8.98	100.00%	8.98	**TOTAL ESTIMATED DEMAND LOAD:** 155.94 kVA
HVAC	116.35	100.00%	116.35	**TOTAL CONNECTED CURRENT:** 455.72 A
REC	19.32	75.88%	14.66	**TOTAL ESTIMATED DEMAND CURRENT:** 432.84 A
Lighting	5.21	100.00%	5.21	

PANELBOARD: RPA

VOLTAGE: 208/120 Wye
PHASES: 3
WIRES: 4
BUS RATING: 100 A
MAIN TYPE: MLO
SCCR: 42,000
FED FROM: MDP
LOCATION: ELEC RM. 111
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
FEED THRU LUGS: No
SECTION: 1 OF 1
SURGE PROTECTION: No
POWER MONITOR: No

NOTES:

WIRE SIZE	LOAD DESCRIPTION	POLES	TRIP	TYPE	CKT	A		B		C		CKT	TYPE	TRIP	POLES	LOAD DESCRIPTION	WIRE SIZE
	REC CORONER'S OFFICE	1	20 A		1	0.72	1.92					2		20 A	1	REC VIEWING,LOBBY	
	REC CORONER'S OFFICE	1	20 A		3			0.90	0.84			4		20 A	1	REC RECEPTION	
	REC TLT,JAN	1	20 A		5					0.90	0.84	6		20 A	1	REC RECEPTION	
	REC DEPUTY OFFICE	1	20 A		7	0.90	0.54					8		20 A	1	REC STORAGE	
	REC DEPUTY OFFICE	1	20 A		9			0.72	1.26			10		20 A	1	REC DEPUTY	
	REC CHIEF'S OFFICE	1	20 A		11					1.08	0.54	12		20 A	1	REC RESTING	
	REC BREAK ROOM	1	20 A		13	0.36	0.54					14		20 A	1	REC ELEC,CORR	
	REC BREAK ROOM	1	20 A		15			0.18	1.00			16		20 A	1	REC COPIER	
	REC BREAK ROOM	1	20 A		17					0.18	0.54	18		20 A	1	REC EXTERIOR	
	REC MICROWAVE	1	20 A		19	1.00	1.20					20		20 A	1	EG1 JACKET WATER HEATER	
	REC REFRIG	1	20 A	GF	21			1.00	0.50			22		20 A	1	EG BATTERY CHARGER	
	REC CONFERENCE RM	1	20 A		23					1.38	0.00	24	--	20 A	1	SPARE	--
	REC CONFERENCE RM	1	20 A		25	1.20	0.00					26	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	27			0.00	0.00			28	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	29					0.00	0.00	30	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	31	0.00	0.00					32	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	33			0.00	0.00			34	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	35					0.00	0.00	36	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	37	0.00	0.00					38	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	39			0.00	0.00			40	--	20 A	1	SPARE	--
--	SPARE	1	20 A	--	41					0.00	0.00	42	--	20 A	1	SPARE	--
					TOTAL CONNECTED PHASE LOADS:	8.38 kVA		6.40 kVA		5.46 kVA							

BREAKER TYPE LEGEND:

GF - INDICATES CB IS GROUND FAULT TYPE (5mA FOR PERSONNEL).
HT - INDICATES CB IS GROUND FAULT TYPE (30 mA FOR EQUIPMENT).
LCP - INDICATES CIRCUIT CONNECTED THRU LIGHTING CONTROL PANEL.
LO - INDICATES CB EQUIPPED WITH "LOCK-ON" DEVICE.
ST - INDICATES CB EQUIPPED WITH SHUNT TRIP DEVICE.

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
REC	15.54	82.18%	12.77	**TOTAL CONNECTED LOAD:** 20.24 kVA
Equipment	4.70	100.00%	4.70	**TOTAL ESTIMATED DEMAND LOAD:** 17.47 kVA
				TOTAL CONNECTED CURRENT: 56.18 A
				TOTAL ESTIMATED DEMAND CURRENT: 48.49 A

STATE OF SOUTH CAROLINA
rmf ENGINEERING INC. CHARLESTON, SC C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA LICENSED
Justin Lee Ziegler
NO. 31417
PROFESSIONAL
07/20/2026
EXAMINER
JUSTIN LEE ZIEGLER

SEALS

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ELECTRICAL PANEL SCHEDULE

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY JLZ
CHECKED BY JLZ
DATE 07/17/2026
SCALE

E611

7/20/2026 4:35:22 PM

PLUMBING GENERAL NOTES

1 PRIOR TO PREPARING THE BID, IT IS RECOMMENDED THAT THE CONTRACTOR AND SUBCONTRACTORS VISIT THE SITE TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND MAKE ALL NECESSARY INVESTIGATIONS AS TO THE LOCATIONS OF UTILITIES AND ALL OTHER MATTERS WHICH CAN AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR AS A RESULT OF THEIR FAILURE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED.

2 THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND BUILDING DIMENSIONS PRIOR TO WORK. ANY VARIATIONS, DISCREPANCIES, OR FIELD ALTERATIONS TO THESE DESIGN DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT ATTENTION PRIOR TO WORK. IF CONTRACTOR COMMENCES WORK WITHOUT NOTIFYING THE ARCHITECT OF VARIATIONS, DISCREPANCIES, OR FIELD ALTERATIONS, THAT SHALL CONSTITUTE WAIVER TO ANY CLAIM BY CONTRACTOR FOR ADDITIONAL EXPENSES NECESSARY TO PERFORM WORK ASSOCIATED WITH THOSE CONDITIONS.

3 THIS CONTRACT REQUIRES COMPLETE, FINISHED WORKABLE PROJECT OF THE AREAS INDICATED BY THE CONTRACT DOCUMENTS, AND SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE SAME, REGARDLESS OF WHETHER OR NOT EACH AND EVERY NECESSARY WORK OR ITEM IS SPECIFICALLY INDICATED ON ANY OTHER PORTION OF THE DRAWING AND/OR NOTES.

4 AS A MINIMUM, ALL WORK SHALL CONFORM TO THE APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL CODES AND ORDINANCES ADOPTED BY THE JURISDICTION OF THE WORK. WHERE MORE STRINGENT CODES ARE ADOPTED, THEY SHALL GOVERN THE WORK.

5 CONTRACTOR SHALL FURNISH ALL INFORMATION AND DOCUMENTATION TO SECURE ALL REQUIRED PERMITS AND SHALL COORDINATE THIS DATA WITH THE CONSTRUCTION DOCUMENTS WHERE REQUIRED.

6 CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGHOUT THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCE, OBTAIN ALL NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER AND WELL COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, CONFER WITH EACH CONTRACTOR EXACT LOCATION OF ALL ITEMS.

7 WHERE MATERIALS REFERENCED ON DRAWINGS, OR NECESSARY TO COMPLETE THE WORK OF THIS CONTRACT ARE NOT SPECIFIED HEREIN, PROVIDE BEST QUALITY MATERIALS. WHERE MATERIALS ARE INTENDED TO MATCH EXISTING, PROVIDE CLOSEST POSSIBLE MATCH, SUBJECT TO OWNER'S APPROVAL. ALL ITEMS AND WORK ON DRAWINGS ARE NEW UNLESS INDICATED OTHERWISE. ALL WORK WHICH HAS BEEN DAMAGED SHALL BE REPAIRED OR REPLACED. WHERE ITEM CANNOT BE REPAIRED TO A "NEW CONDITION", OR WHERE THE STRUCTURAL INTEGRITY HAS BEEN AFFECTED, ITEM SHALL BE REPLACED.

8 CONTRACTOR SHALL OBTAIN FROM OWNER ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT INCLUDING ROUGHING DIAGRAMS, INSTALLATION INSTRUCTIONS, ELECTRICAL SCHEMATICS, TEMPLATES, LAYOUTS AND DIMENSIONS AND ALL OTHER INFORMATION NECESSARY FOR A PROPER, WELL COORDINATED INSTALLATION. PRIOR TO ROUGH-IN SERVICES, CONFER WITH OWNER EXACT LOCATION OF ALL ITEMS.

9 DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

10 CONFIRM ALL ROUGH AND/OR FINISH DIMENSIONS FOR ACCURATE FITTING OF PLUMBING EQUIPMENT, FIXTURES, PIPING, ETC BEFORE FABRICATION AND INSTALLATION.

11 COORDINATE FINAL EQUIPMENT/FIXTURE LOCATIONS WITH THE GENERAL CONTRACTOR. THE LOCATION AS INDICATED ON THE DRAWING IS APPROXIMATE. INSTALL ALL PLUMBING EQUIPMENT SUCH THAT MANUFACTURER'S MAINTENANCE AREA IS CLEAR.

12 PROVIDE AND INSTALL ALL NECESSARY HARDWARE, BRACKETS, BRACING, ANCHORING, INSERTS, BLOCKING, FURRING OR OTHER SUPPLEMENTARY ITEMS NEEDED FOR COMPLETE INSTALLATION OF EQUIPMENT, FIXTURES AND ACCESSORIES

13 ALL WALL MOUNTED PLUMBING DEVICES OR CONTROLS SHALL BE INSTALLED IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, FIXTURES, FURNISHINGS OR EQUIPMENT. ITEMS INTENDED FOR WALL MOUNTING SHALL NOT BE INSTALLED ON, THROUGH OR INTO ANY OTHER EQUIPMENT UNLESS SPECIFICALLY CALLED FOR. VERIFY MOUNTING HEIGHTS WITH ARCHITECT AND ADA REQUIREMENTS.

14 DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INDICATED LOCATIONS AND ARRANGEMENTS ARE USED TO SIZE PIPE AND CALCULATE FRICTION LOSS, EXPANSION, AND OTHER DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON COORDINATION DRAWINGS.

15 COORDINATE UNDERGROUND PIPING INVERT ELEVATIONS WITH STRUCTURAL FOOTING ELEVATIONS AND CIVIL INVERT CONNECTIONS PRIOR TO ANY UNDERGROUND PIPING INSTALLATIONS. IF FOOTINGS ARE IN CONFLICT AND WHERE A PIPING ROLL DOWN IS NOT POSSIBLE, COORDINATE WITH GENERAL CONTRACTOR FOR DROPS IN FOOTINGS AS REQUIRED.

16 INSTALL CLEANOUTS IN ABOVEGROUND PIPING AND UNDERSLAB BUILDING DRAIN PIPING AT EACH CHANGE IN DIRECTION OF PIPING GREATER THAN 45 DEGREES, AT BASE OF EACH VERTICAL SOIL AND WASTE STACK, AND AT MINIMUM INTERVALS OF 50 FEET FOR PIPING NPS 4 AND SMALLER AND 100 FEET FOR LARGER PIPING. ON DOUBLE SIDED WALLS, COORDINATE ACCESSIBLE DIRECTION OF BASE CLEANOUTS IN VERTICAL STACKS WITH ARCHITECT AND PROVIDE WALL ACCESS COVER.

17 DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS TESTED, INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION OR OWNERS REPRESENTATIVE.

18 WHERE INDICATED AS ADA ON THE ARCHITECTURAL DRAWINGS, FIXTURE INSTALLATION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.

19 UNLESS ABSOLUTELY NECESSARY, ALL PLUMBING DEVICES, EQUIPMENT, VALVES, ETC. THAT REQUIRE ACCESS SHALL NOT BE LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. WHERE UNAVOIDABLE, PROVIDE ACCESS DOORS IN INACCESSIBLE CEILINGS TO ACCESS DEVICES, EQUIPMENT, VALVES, ETC.

20 THE CONTRACTOR SHALL ROUGH-IN ALL WASTES AND WATER SUPPLIES FOR FIXTURES AND PERFORM FINAL CONNECTIONS AS NEEDED.

21 PLUMBING VENT PIPING SHOWN IS ONLY FOR DIAGRAMMATIC PURPOSES. COORDINATE VENT THROUGH ROOF LOCATION TO BE MINIMUM 10 FEET FROM HVAC AIR INTAKES.

22 ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTIONS UNLESS NOTED OTHERWISE. WHERE TRAP PRIMERS ARE NOT PROVIDED, PROVIDE TRAP SEAL INSERT DEVICES.

23 ALL FLOOR AND ROOF DRAINS SHALL BE PROTECTED FOR THE DURATION OF THE PROJECT. IF ANY DRAINS ARE FOUND TO CONTAIN DEBRIS THE CONTRACTOR SHALL CLEAN AND SCOPE THE DRAIN SYSTEM AT NO ADDITIONAL CHARGE TO THE OWNER.

24 INSTALL UNIONS OR FLANGES AT ALL CONNECTIONS TO EACH PIECE OF EQUIPMENT AND ON BOTH SIDES OF VALVES AND OTHER IN-LINE DEVICES THAT REQUIRE REMOVAL FOR MAINTENANCE.

25 INSTALL SHUT-OFF VALVES IN PIPING WHERE SHOWN ON THE DRAWINGS AND WHERE CALLED FOR IN THE SPECIFICATION SECTION "VALVES FOR PLUMBING PIPING".

26 ALL VALVES ABOVE CEILINGS AND IN CONCEALED SPACES SHALL BE LABELED AT CEILING TILE WITH METAL CEILING TACKS INDICATING VALVE # AND TYPE OF WATER. (I.E.; BLUE=COLD WATER, LETTERING CW VLV1-001).

27 ALL FLUSH VALVE WATER CLOSETS SHALL BE ROUGHED IN SO THAT THE FLUSH VALVE HANDLE IS TO THE WIDE SIDE OF THE ROOM/STALL.

28 INSTALL WATER-HAMMER ARRESTERS IN WATER PIPING AT THE END OF ALL BRANCH LINES AND AS INDICATED ON THE DRAWINGS ACCORDING TO PDI-WH 201. PIPE EXTENSIONS SHALL NOT BE USED IN PLACE OF SHOCK ABSORBERS.

29 BUILDING GAS MAIN PRESSURE SHALL BE X PSI. PROVIDE INDIVIDUAL GAS REGULATORS FOR EACH GAS-APPLIANCE EQUIPMENT, LOCATED AND SET IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLIANCE EQUIPMENT MANUFACTURER.

30 ALL EXPOSED PIPING SHALL RUN PARALLEL WITH AND PERPENDICULAR TO WALLS AND BUILDING STRUCTURE.

31 ALL EXPOSED EQUIPMENT AND PIPING SHALL BE PREPPED FOR PAINTING. PAINTING SHALL BE BY OTHERS. TAGS AND LABELS SHALL NOT BE PAINTED.

PLUMBING SYMBOLS

COMPONENTS AND SPECIATIES

SYMBOL	DESCRIPTION
	BACKWATER VALVE
	BACKFLOW PREVENTER (DUAL CHECK TYPE)
	BACKFLOW PREVENTER (REDUCED PRESSURE TYPE)
CO	CLEAN OUT (WALL / PIPE)
CO	CLEAN OUT (FLOOR)
HED	HOSE END DRAIN VALVE
	FLOOR DRAIN
	ROOF DRAIN
	ROOF OVERFLOW DRAIN
M	WATER METER

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER (POTABLE)
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
OD	OVERFLOW DRAIN
	SANITARY
SD	STORM DRAIN
	VENT

EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
ET-X	EXPANSION TANK DESIGNATION
FD-X	FLOOR DRAIN DESIGNATION
FS-X	FLOOR SINK DESIGNATION
P-X	PLUMBING FIXTURE DESIGNATION
RD-X	ROOF / OVERFLOW DRAIN DESIGNATION
RP-X	RECIRCULATING PUMP DESIGNATION
WH-X	WATER HEATER DESIGNATION

PLUMBING ABBREVIATIONS

A	COMPRESSED AIR
BCWR	BEARING COOLING WATER RETURN
BCWS	BEARING COOLING WATER SUPPLY
BO	BLOW OFF
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	CONTROL AIR
CBD	CONTINUOUS BLOWDOWN
CC	CAMPUS CONDENSATE
CF	CHEMICAL FEED
CFM	CUBIC FEET PER MINUTE
CHEL	CHELANT
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEANOUT
CW	COLD WATER, DOMESTIC CITY WATER
DHR	DISTRIBUTION HEATING WATER RETURN
DHS	DISTRIBUTION HEATING WATER SUPPLY
DIA	DIAMETER
DW	DISTILLED WATER
EA	EXHAUST AIR
ED	EQUIPMENT DRAIN
EJ	EXPANSION JOINT
#2FOR	NUMBER 2 FUEL OIL RETURN
#2FOS	NUMBER 2 FUEL OIL SUPPLY
#6FOR	NUMBER 6 FUEL OIL RETURN
#6FOS	NUMBER 6 FUEL OIL SUPPLY
F	FIRE LINE
F&T	FLOAT AND THERMOSTATIC
FD	FORCED DRAFT
FDV	FIRE DEPARTMENT VALVE
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FOF	FUEL OIL FILL
FOO	FUEL OIL OVERFLOW
FOSUCT	FUEL OIL SUCTION
FOT	FUEL OIL TRANSFER
FOVENT	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FW	FEED WATER
FWR	FEED WATER RECIRCULATION
FWS	FEED WATER SUPPLY
°F	DEGREES FAHRENHEIT
G	NATURAL GAS
GAL	GALLON, GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HEATING WATER RETURN
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HS	HEATING WATER SUPPLY
HTHW	HIGH TEMPERATURE HEATING WATER SUPPLY
HTWR	HIGH TEMPERATURE HEATING WATER RETURN
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IA	INSTRUMENT AIR
KW	KILOWATTS
LP	LIQUID PROPANE
LPG	LIQUID PETROLEUM GAS
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
MAV	MANUAL AIR VENT
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCC	MOTOR CONTROL CENTER
MOD	MOTOR OPERATED DAMPER
MPR	MEDIUM PRESSURE STEAM RETURN
MPS	MEDIUM PRESSURE STEAM SUPPLY
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
No	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
OD	OVERFLOW DRAIN
PA	PLANT AIR
PC	PUMPED CONDENSATE
PCR	PUMP CONDENSATE RECIRCULATION
PPH	POUNDS PER HOUR
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR, RELIEF AIR
RDR	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VENT
RX	REMOVE EXISTING
SA	SUPPLY AIR
SAN	SANITARY
SS	STAINLESS STEEL
SSUL	SODIUM SULFITE
STDR	STORM DRAIN
SW	SOFT WATER
TW	TREATED WATER
TYP	TYPICAL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF

SEALS

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PLUMBING NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE 1 : 1

P-001

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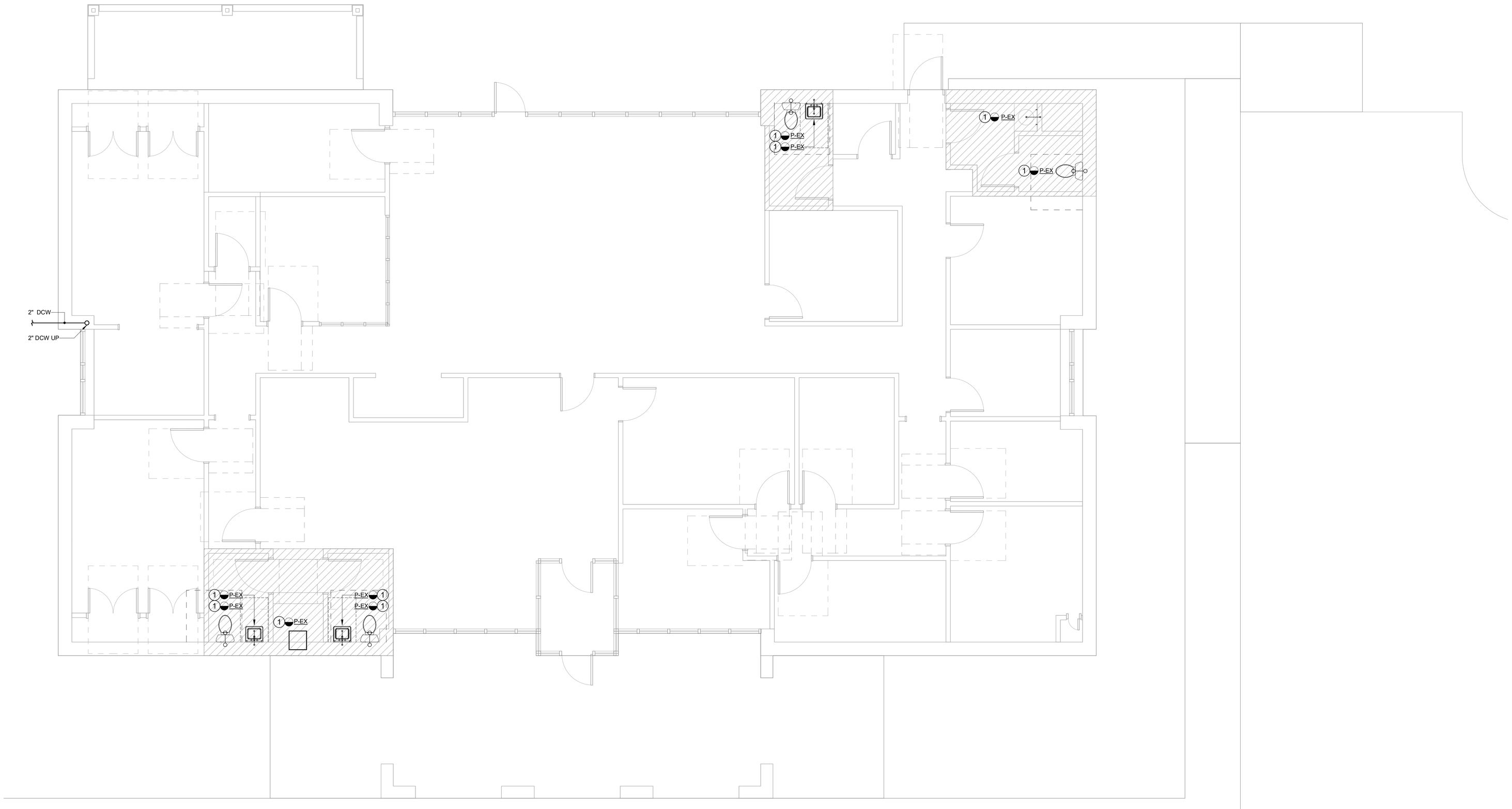
GENERAL NOTES

1. CONTRACTOR SHALL INVESTIGATE AND FIELD VERIFY ALL EXISTING UNDER-SLAB SANITARY PIPING USING NON-DESTRUCTIVE METHODS (GPR, X-RAY, OR EQUAL). PRIOR TO THE START OF DEMOLITION, PROVIDE RESULTS OF SCAN TO THE ENGINEER OR RECORD AFTER INVESTIGATION IS COMPLETE.

DRAWING NOTES

1. CONTRACTOR SHALL DEMOLISH AND REMOVE ALL PLUMBING FIXTURES INDICATED ON DRAWINGS.



PLUMBING - UNDER SLAB - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC.
CHARLESTON, SC
C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
PROFESSIONAL ENGINEER
32947
2026-07-20
GREGORY TAYLOR HINSON

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PLUMBING - UNDERSLAB - DEMOLITION PLAN

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE 1/4" = 1'-0"

PD-101

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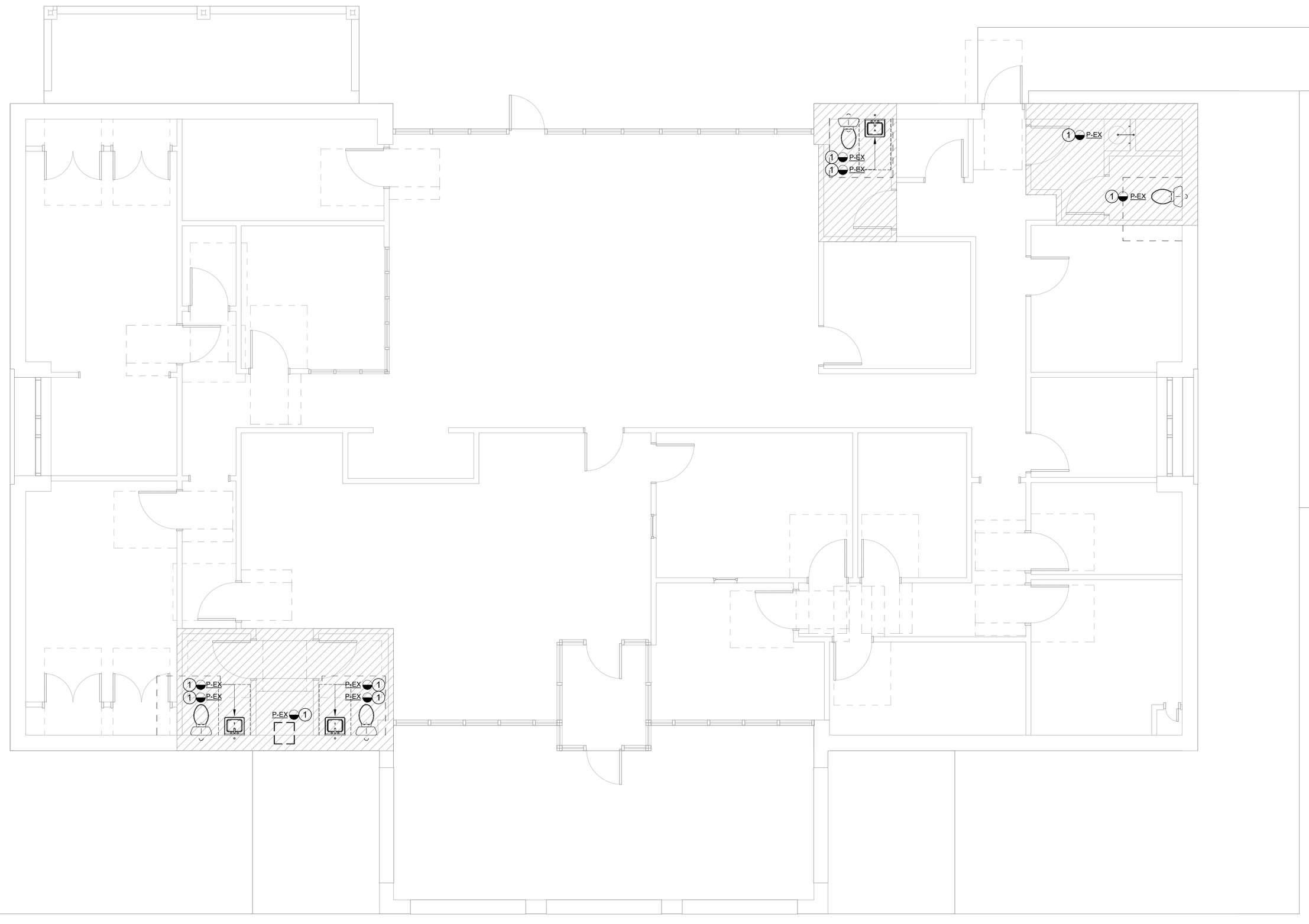
GENERAL NOTES

1. ALL EXISTING VENT PIPING WITHIN SHADED REGION SHALL BE DEMOLISHED TO THE EXISTING VENT THROUGH ROOF (VTR) LOCATIONS. NEW VENT PIPING SHALL BE RECONNECTED TO EXISTING VTR LOCATIONS OF APPROPRIATE SIZE.

DRAWING NOTES

1. CONTRACTOR SHALL DEMOLISH AND REMOVE ALL PLUMBING FIXTURES INDICATED ON DRAWINGS.



PLUMBING - SANITARY AND VENT - ABOVE SLAB - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC.
CHARLESTON, SC
C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
PROFESSIONAL ENGINEER
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GREGORY TAYLOR HINSON
2026-07-20

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PLUMBING - SAN AND VENT - ABOVE SLAB - DEMOLITION PLAN

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE 1/4" = 1'-0"

PD-102

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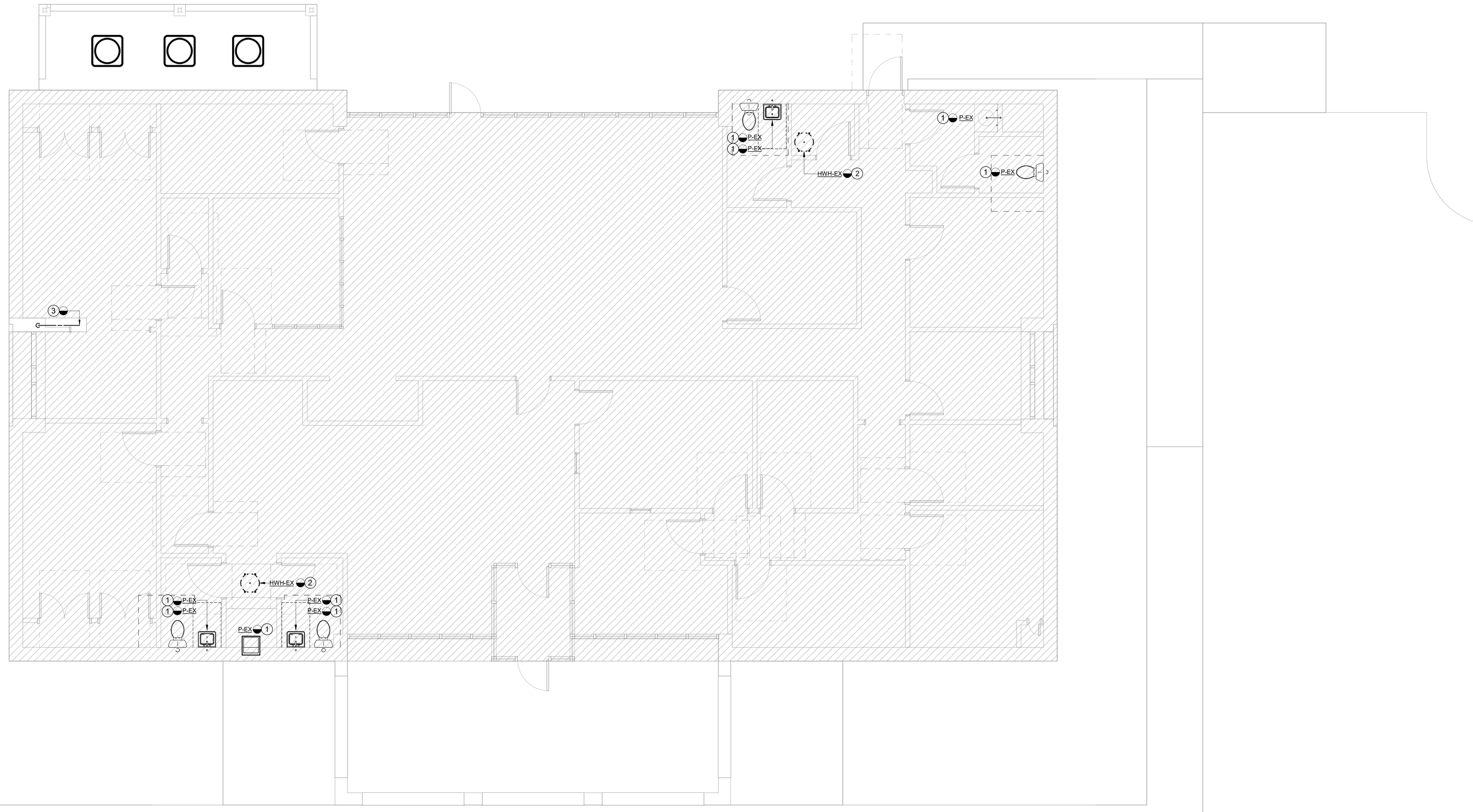
GENERAL NOTES

1. CONTRACTOR SHALL DEMOLISH ALL EXISTING DOMESTIC WATER PIPING WITHIN THE SHADED REGION BACK TO THE LOCATION INDICATED.

DRAWING NOTES

1. CONTRACTOR SHALL DEMOLISH AND REMOVE ALL FIXTURES AND EQUIPMENT INDICATED ON DRAWINGS.
2. CONTRACTOR SHALL DEMOLISH EXISTING HOT WATER HEATER AND ASSOCIATED EQUIPMENT ABOVE CEILING AT THIS LOCATION
3. DEMOLISH EXISTING DOMESTIC WATER PIPING BACK TO SERVICE ENTRANCE ABOVE CEILING.



PLUMBING - DOMESTIC - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC. CHARLESTON, SC C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA PROFESSIONAL ENGINEER
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2026-07-20
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PLUMBING -DOMESTIC - DEMOLITION PLAN

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE 1/4" = 1'-0"

PD-201

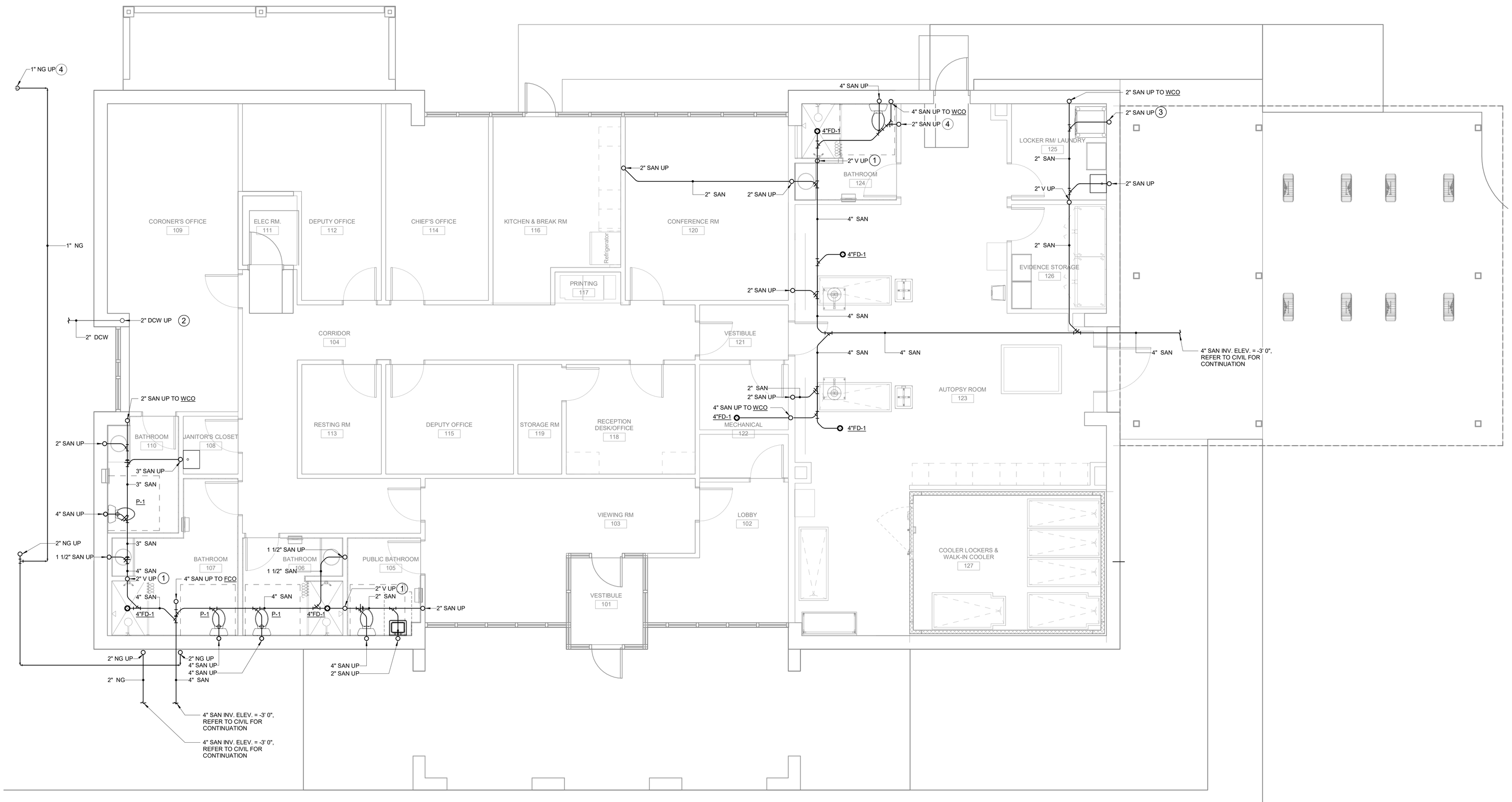
7/20/2026 6:29:17 PM

GENERAL NOTES

1. CONTRACTOR SHALL INVESTIGATE, FIELD VERIFY, AND MAP EXISTING SANITARY PIPING SYSTEMS PRIOR TO INSTALLATION OF NEW WORK. COORDINATE ALL NEW SANITARY PIPING TO AVOID CONFLICTS WITH EXISTING SYSTEMS.
2. ALL SANITARY PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4 INCH PER FOOT UNLESS OTHERWISE NOTED.

DRAWING NOTES

1. PROVIDE VENT CONNECTION FROM THE TOP OF THE SANITARY PIPING AT THIS LOCATION. REFER TO SHEET P-102 FOR VENT CONTINUATION.
2. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND SIZE OF DOMESTIC WATER MAIN ENTERING THE BUILDING PRIOR TO COMMENCING WORK.
3. 2" SANITARY PIPE SHALL RISE AND CONNECT TO THE WASHER OUTLET BOX.
4. 2" SANITARY PIPE SHALL RISE AND CONNECT TO EYE WASH STATION OUTLET.



PLUMBING - UNDERSLAB
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC. CHARLESTON, SC C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA PROFESSIONAL ENGINEER
32947
2026-07-20
GREGORY TAYLOR HUDSON

SEALS

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NOTES:

RMF ENGINEERING, INC.
194 SEVEN FARMS DRIVE
SUITE G
CHARLESTON, SC 29492
P: 843-971-9639 F: 843-971-9641

REVISIONS

CONSTRUCTION DOCUMENTS

COLLETON COUNTY CORONER'S OFFICE

101 MABLE T WILLIS BLVD,
WALTERBORO, SC 29488

CAPLEA|COE ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

PLUMBING - UNDERSLAB

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE 1/4" = 1'-0"

P-101

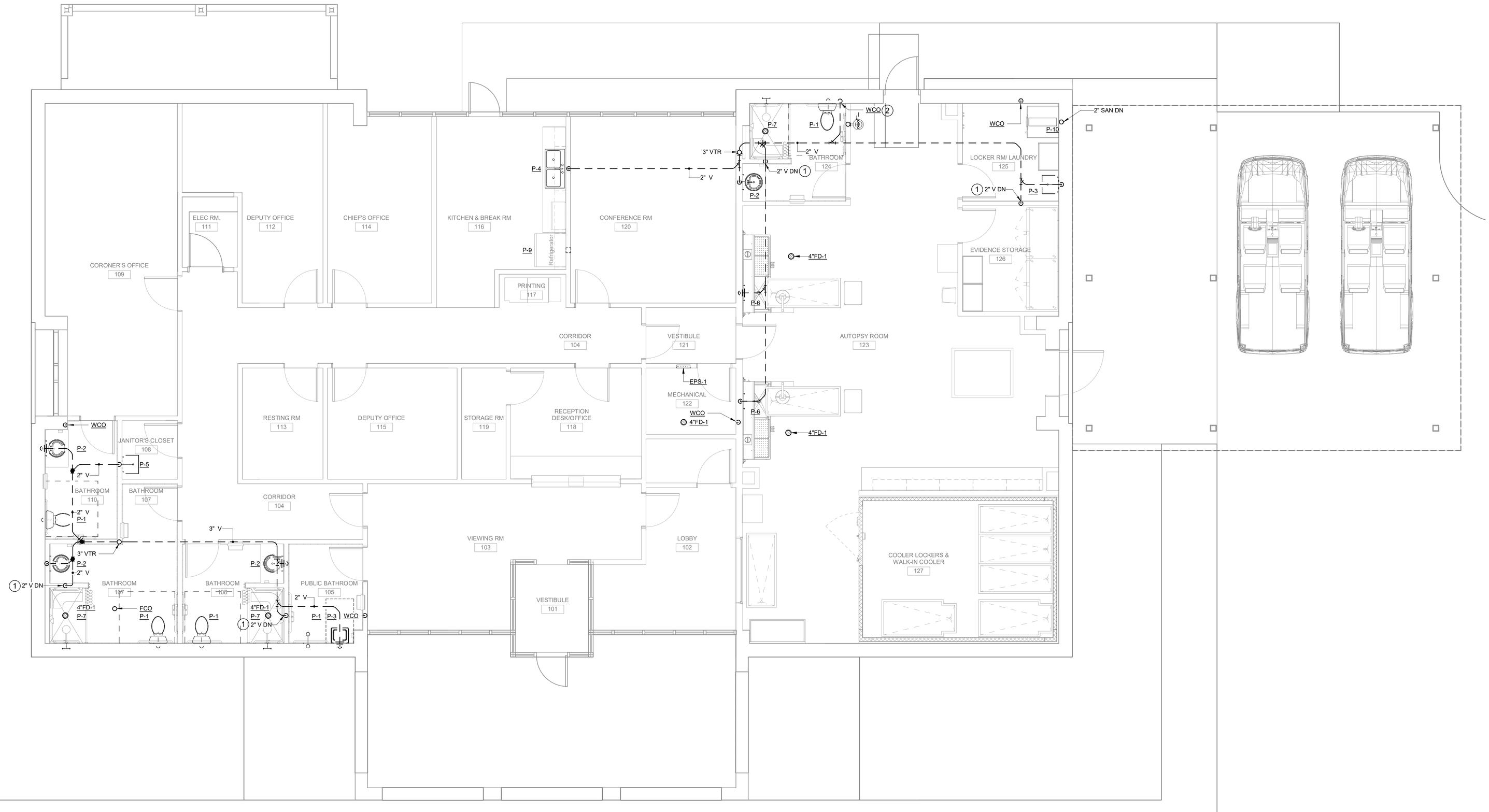
7/20/2026 6:29:17 PM

GENERAL NOTES

1. INSTALL ALL VENT PIPING IN COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE (IPC) AND ALL APPLICABLE LOCAL AMENDMENTS.

DRAWING NOTES

1. VENT PIPING SHALL DROP WITHIN THE WALL AT THIS LOCATION AND CONNECT TO THE SANITARY SYSTEM TO VENT NEARBY PLUMBING FIXTURES.
2. SANITARY PIPING SHALL CONTINUE UP TO A WALL CLEANOUT ON THE INTERIOR FACE OF THE WALL, THEN CONTINUE FULL SIZE AS A VENT.



PLUMBING - SANITARY AND VENT - ABOVE SLAB
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

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843.577.6073

PLUMBING - SANITARY AND VENT - ABOVE SLAB

SHEET NAME

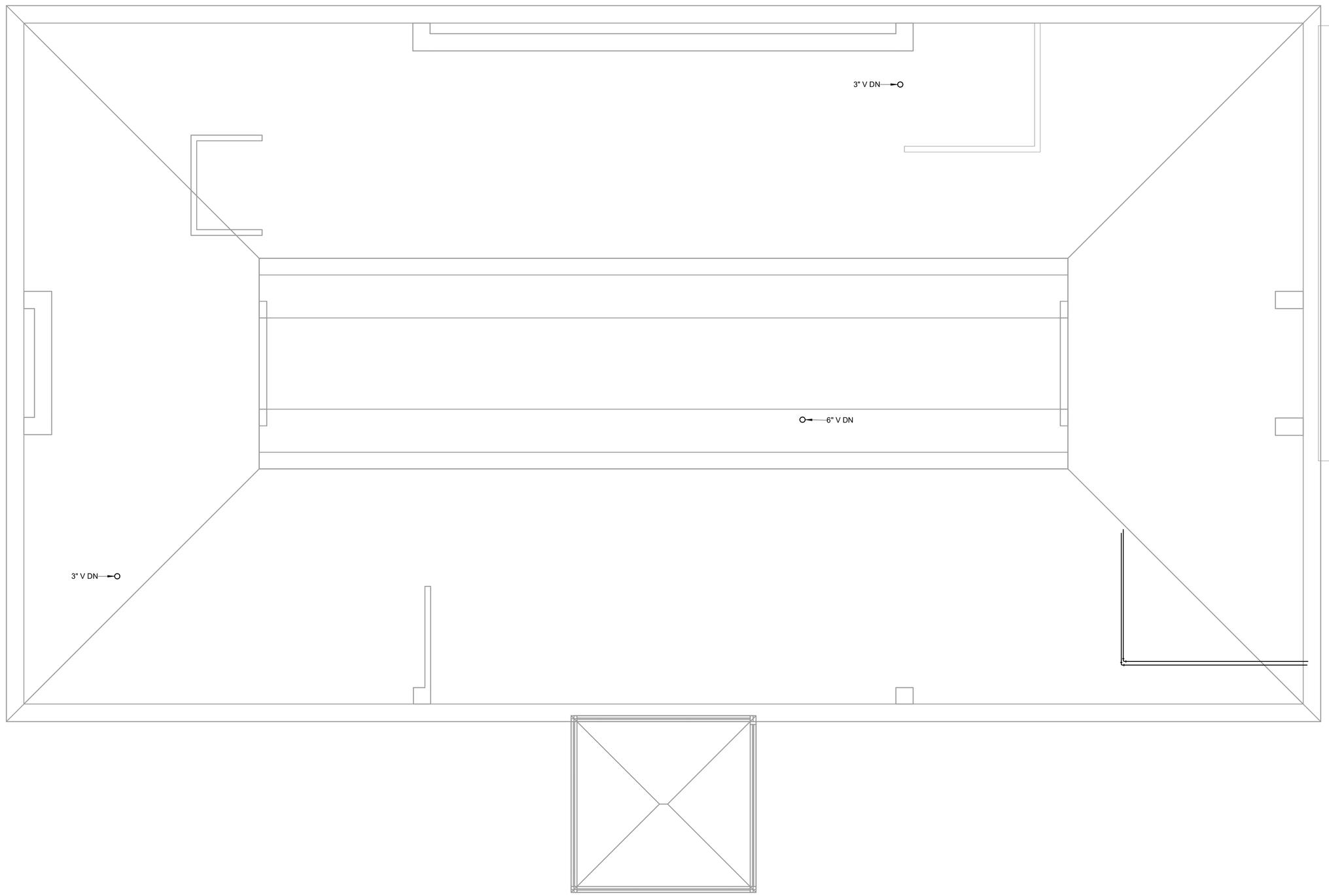
PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE 1/4" = 1'-0"

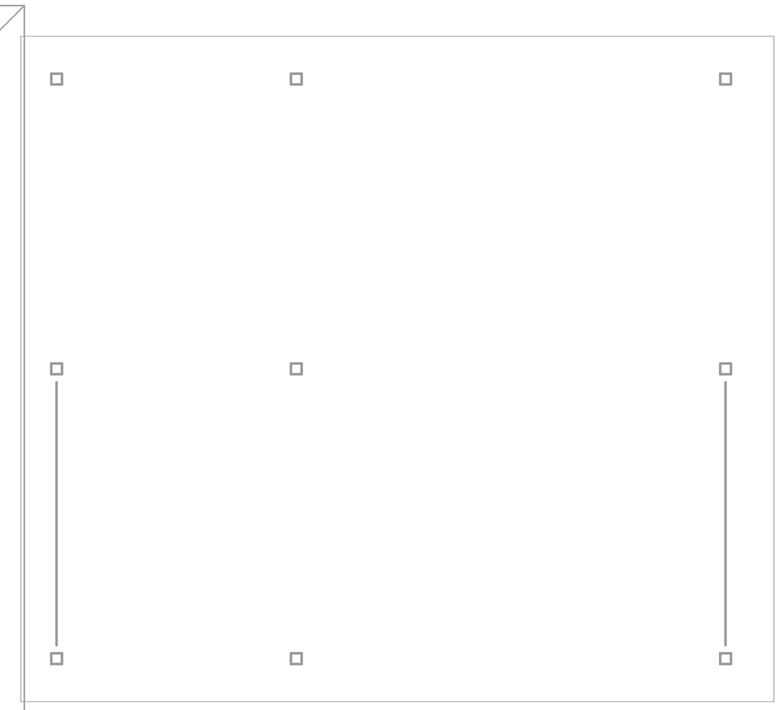
P-102

7/20/2026 6:29:18 PM

DRAWING NOTES

1. CONTRACTOR SHALL PROVIDE A LISTED TYPE B GAS VENT ROOF CAP, STORM COLLAR, AND ROOF FLASHING FOR THE WATER HEATER VENT.





PLUMBING - SANITARY AND VENT - ROOF
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC. CHARLESTON, SC C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA PROFESSIONAL ENGINEER
32947
2026-07-20
GREGORY TAYLOR JOHNSON

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843.577.6073

PLUMBING - SANITARY AND VENT - ROOF

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE 1/4" = 1'-0"

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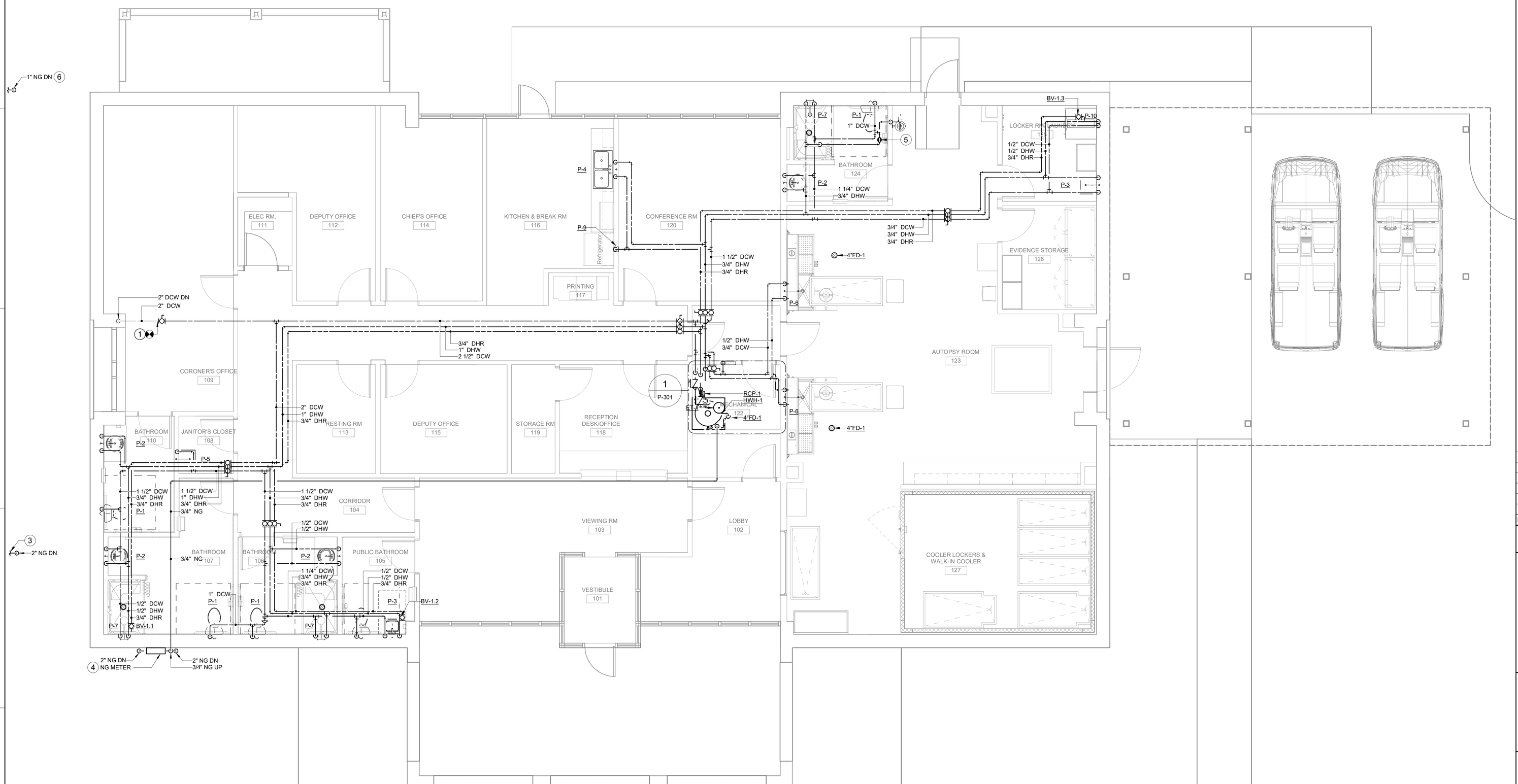
7/20/2026 6:29:18 PM

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, AND POINT OF ENTRY OF EXISTING DOMESTIC WATER MAIN PRIOR TO INSTALLATION OF NEW WORK.

DRAWING NOTES

1. CONNECT NEW DOMESTIC WATER MAIN TO EXISTING MAIN AT INDICATED LOCATION. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL ROUTE OUTLET LINES FROM PRESSURE DROP PRIMING STATION TO PRIME BOTH FLOOR DRAINS NEXT TO EACH AUTOPSY BAY.
3. 2" NATURAL GAS LINE SHALL CONTINUE TO THE GENERATOR. CONTRACTOR SHALL VERIFY THE GENERATOR FUEL-INLET LOCATION AND CONNECT THE NATURAL GAS PIPING TO THAT LOCATION.
4. GAS METER SHALL BE FURNISHED AND SIZED BY THE LOCAL GAS UTILITY FOR A MINIMUM CONNECTED LOAD OF 3,865 CFH. PROVIDE 2 PSIG AT THE METER OUTLET.
5. CONTRACTOR SHALL PROVIDE A THERMOSTATIC MIXING VALVE TO SERVE THE EMERGENCY EYEWASH STATION. MIXING VALVE SHALL DELIVER TEPID WATER BETWEEN 60°F AND 100°F.
6. 1" NATURAL GAS LINE SHALL CONTINUE TO THE DOAU-1. CONTRACTOR SHALL VERIFY THE DOAU-1 FUEL-INLET LOCATION AND CONNECT THE NATURAL GAS PIPING TO THAT LOCATION.



PLUMBING - DOMESTIC
SCALE: 1/4" = 1'-0"

GRAPHIC SCALE
4 2 0 4 8
SCALE: 1/4" = 1'-0"
UNIT OF MEASURE: FEET

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CHARLESTON, SC 29412
843.577.6073

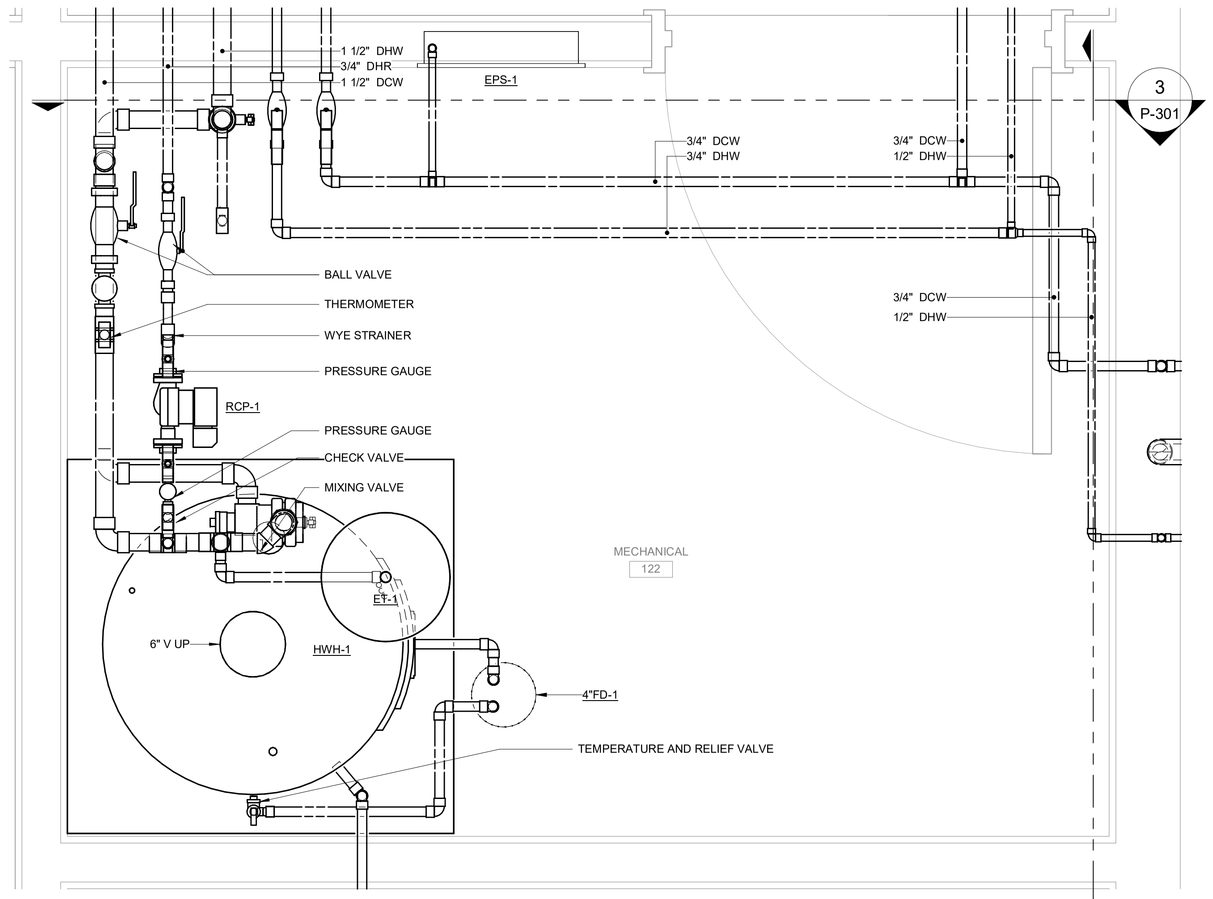
PLUMBING - DOMESTIC / NATURAL GAS

SHEET NAME

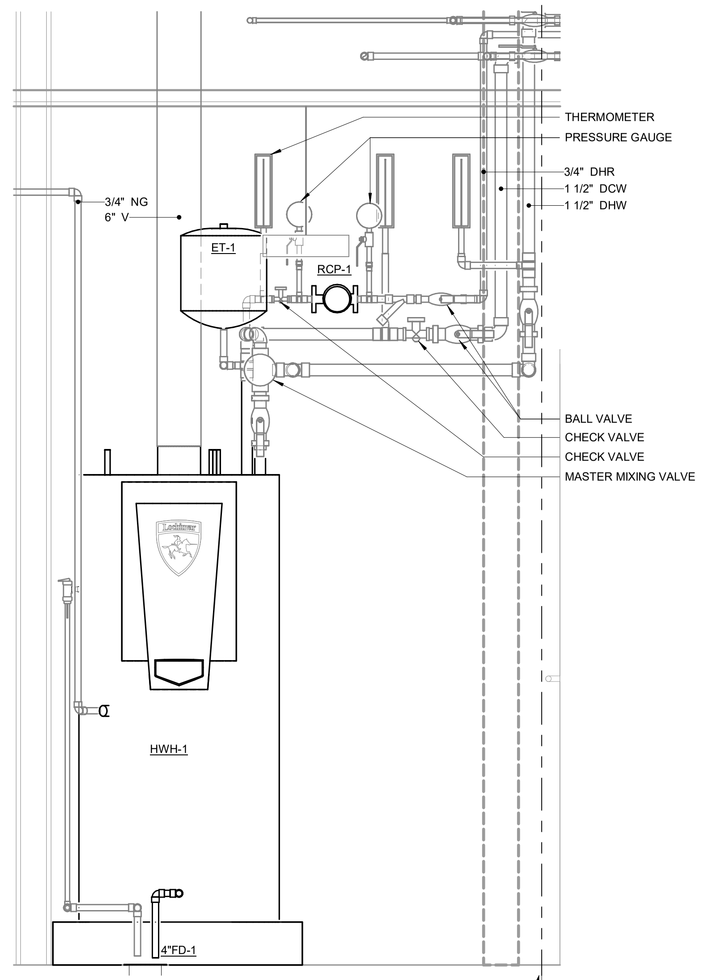
PROJECT NUMBER	03240069.A0
DRAWN BY	Author
CHECKED BY	Approver
DATE	07/20/2026
SCALE	1/4" = 1'-0"

P-201

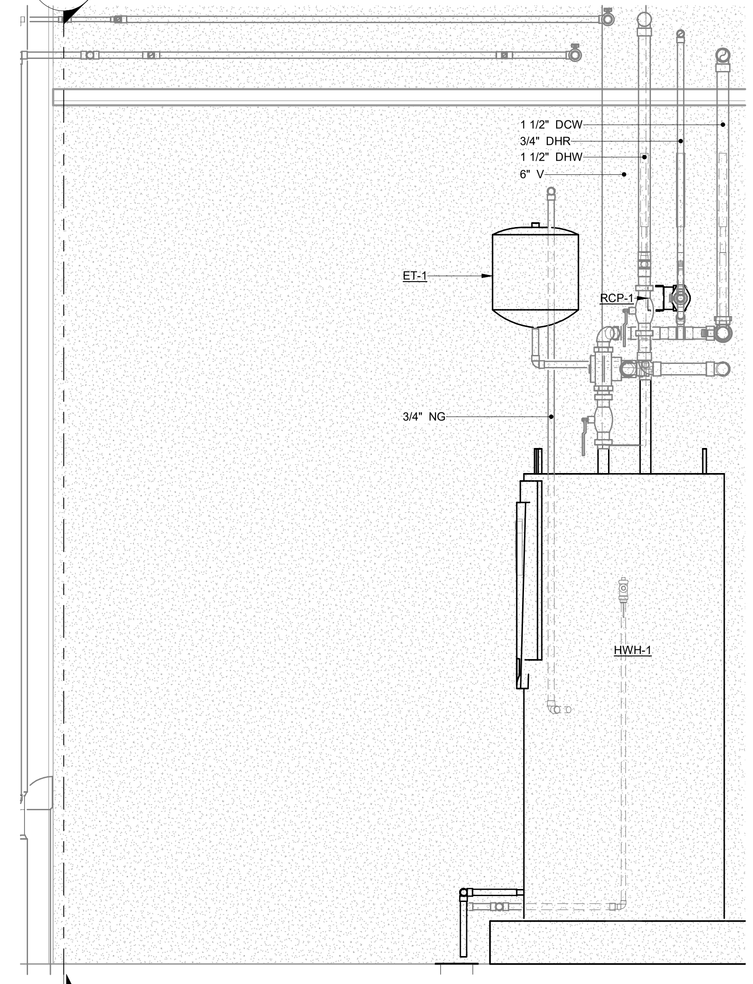
7/20/2026 6:29:19 PM



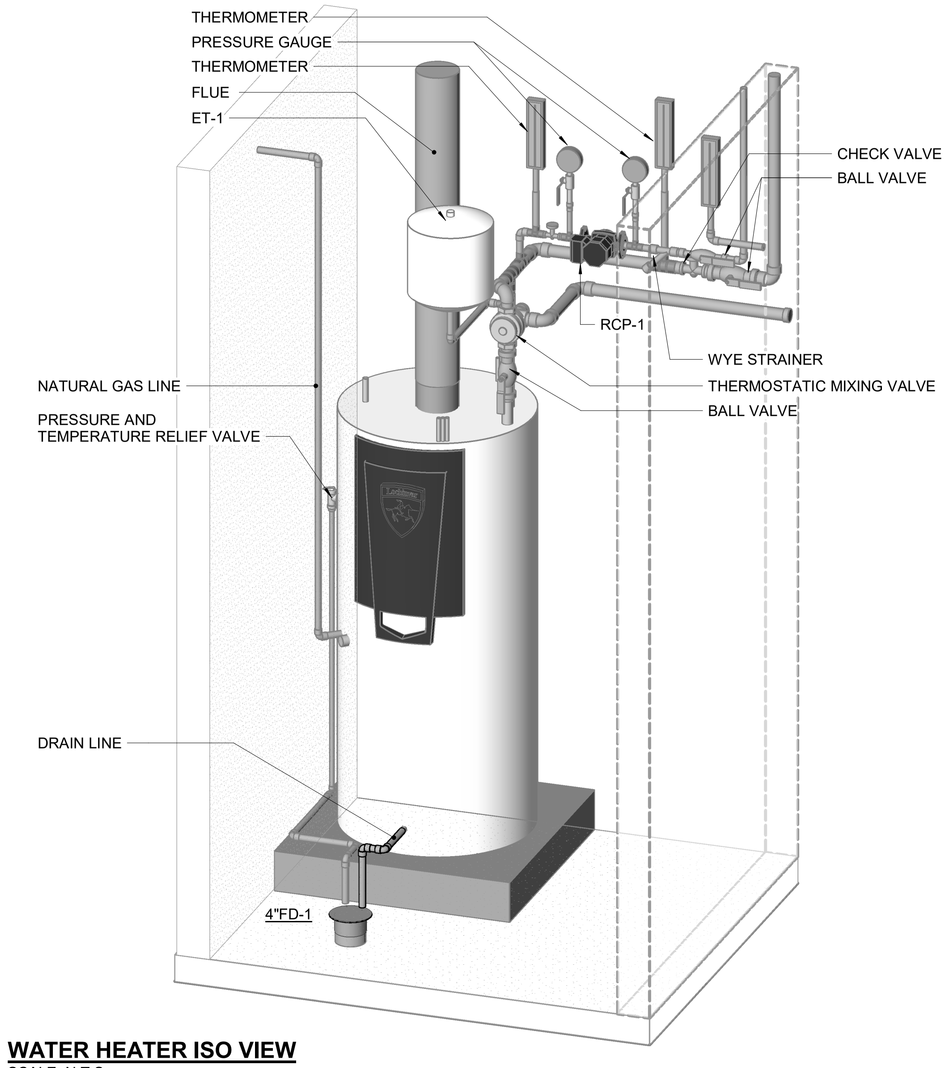
MECHANICAL ROOM - PART PLAN
SCALE: 1 1/2" = 1'-0"



2 P-301 **WATER HEATER SECTION #1**
SCALE: 1" = 1'-0"



3 P-301 **WATER HEATER SECTION #2**
SCALE: 1" = 1'-0"



WATER HEATER ISO VIEW
SCALE: N.T.S.

GRAPHIC SCALE
2 1 0 2 4
SCALE: 1 1/2" = 1'-0"
UNIT OF MEASURE: INCHES

GRAPHIC SCALE
1 0.5 0 1 2
SCALE: 1" = 1'-0"
UNIT OF MEASURE: FEET

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC.
CHARLESTON, SC
C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
PROFESSIONAL ENGINEER
32947
2026-07-20
GREGORY TAYLOR HUDSON

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CHARLESTON, SC 29412
843.577.6073

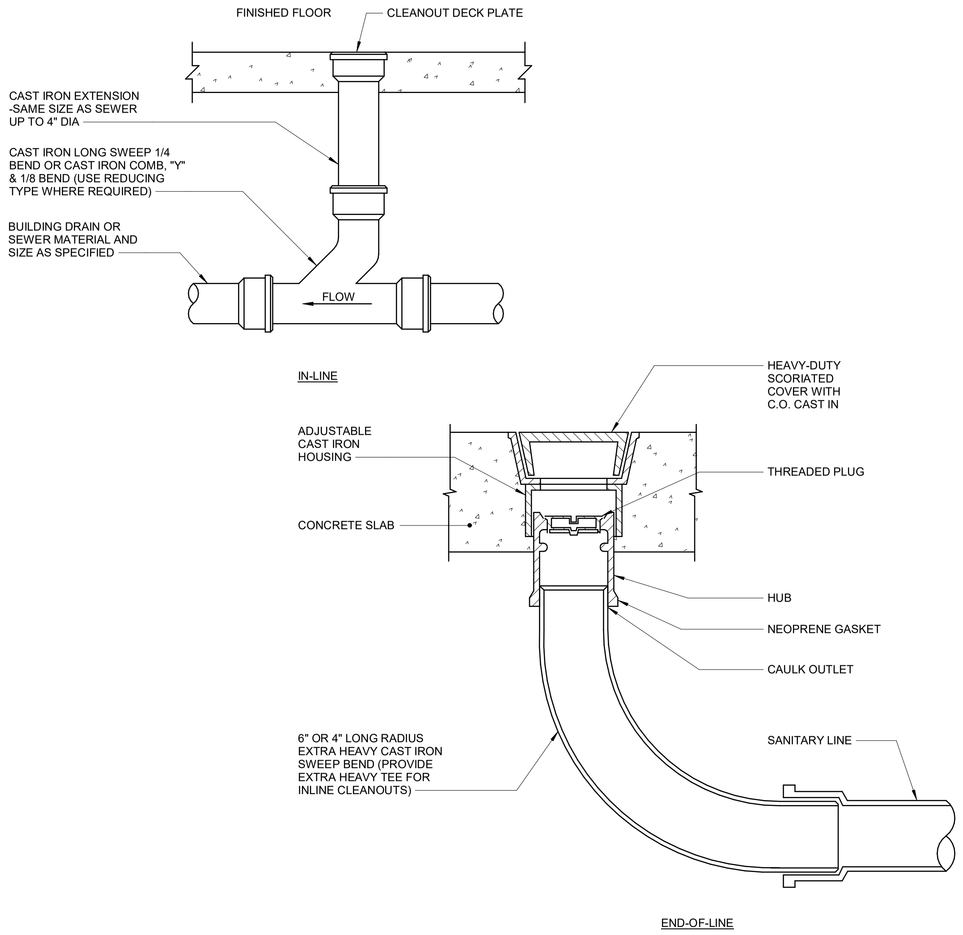
PLUMBING - MECHANICAL ROOM
PART PLAN

SHEET NAME

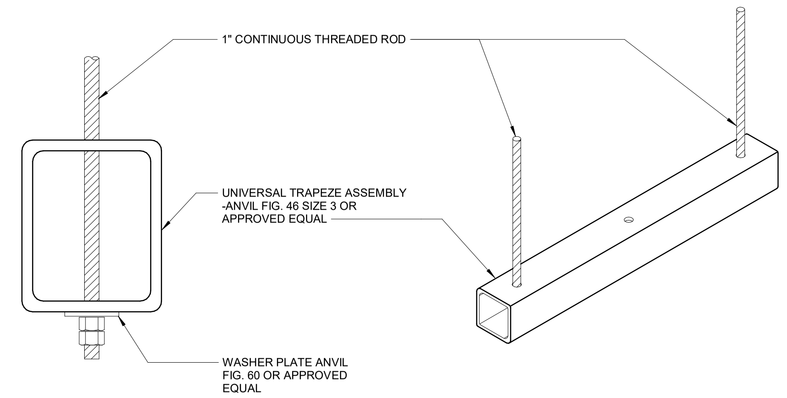
PROJECT NUMBER	03240069.A0
DRAWN BY	Author
CHECKED BY	Approver
DATE	07/20/2026
SCALE	As indicated

P-301

7/20/2026 6:29:24 PM



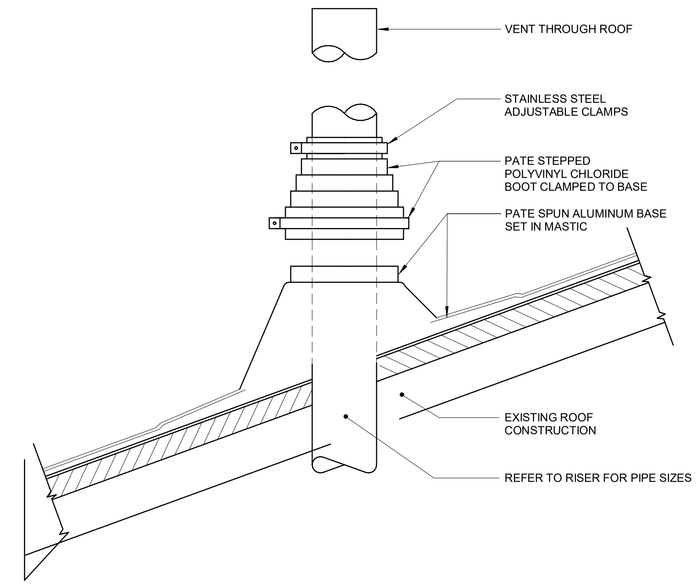
1 **FLOOR CLEANOUTS**
SCALE: N.T.S.



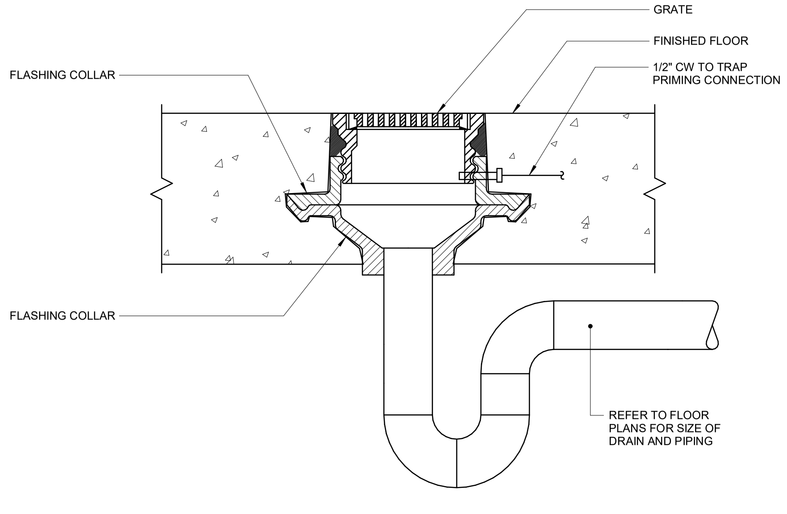
NOTES:

1. FOR NON INSULATED PIPES, PIPE SHALL REST DIRECTLY ON TRAPEZE ASSEMBLY.
2. FOR INSULATED PIPES, PIPE SHALL HAVE HIGH DENSITY STRUCTURAL INSERT AND PIPE SHIELD RESTING ON TRAPEZE ASSEMBLY.

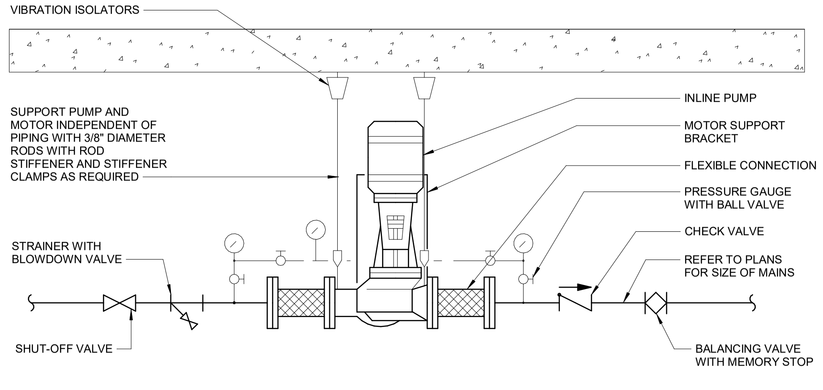
6 **M - DETAIL - TRAPEZE HANGER**
SCALE: N.T.S.



3 **SANITARY VENT THROUGH ROOF**
SCALE: N.T.S.



4 **FLOOR DRAIN (TRAP PRIMER)**
SCALE: N.T.S.



NOTES:

1. PUMP SHALL BE INSTALLED HORIZONTAL OR VERTICAL AS REQUIRED BY THE PUMP MANUFACTURER.
2. CONTRACTOR SHALL VERIFY MAXIMUM LOADING ON EQUIPMENT SUPPORT ASSEMBLIES.

5 **M - DETAIL - INLINE PUMP - SUSPENDED**
SCALE: N.T.S.

STATE OF SOUTH CAROLINA
RMF ENGINEERING INC.
CHARLESTON, SC
C-00831
REGISTERED ENGINEERS

SOUTH CAROLINA
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32947
2026-07-20
GREGORY TAYLOR HUDSON

SEALS

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REVISIONS

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WALTERBORO, SC 29488

CAPLEA|COE
ARCHITECTS
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

DETAILS

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE 12" = 1'-0"

P-401

7/20/2026 6:29:25 PM

DOMESTIC WATER HEATER SCHEDULE

DESIGNATION	EWT	LWT	TANK VOLUME (GAL)	RECOVERY RATE (GAL / HR)	INPUT (MBH)	ELECTRICAL			BASIS OF DESIGN	REMARKS
						VOLTS	PHASE	HERTZ		
HWH-1	50	140	81	90	120	120	1	60	STATE / SANDBLASTER	

PUMP SCHEDULE

DESIGNATION	SERVICE	TYPE	GPM	HEAD FT	RPM	ELECTRICAL			BASIS OF DESIGN	REMARKS
						VOLTS	PHASE	HERTZ		
RCP-1	HOT WATER LOOP	RECIRC	2	3	2800	115	1	60	BELL AND GOSSET / NBF-8S	

EXPANSION TANK SCHEDULE

DESIGNATION	SYSTEM	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	TYPE	DIMENSIONS		DRY WEIGHT (LBS)	ORIENTATION	BASIS OF DESIGN	REMARKS
					DIAMETER	HEIGHT				
ET-1	DOMESTIC WATER LOOP	5	3	DIAPHRAGM	1' - 0"	1' - 2"	30	VERTICAL	BELL AND GOSSET / PTA-5	

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE	ROUCH-IN CONNECTION				FIXTURE UNITS			REMARKS
		CW	HW	SAN	VENT	CW FU	HW FU	FIXTURE UNITS	
P-1	WATER CLOSET	1"		4"	2"	6	0	4	
P-2	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	1.5	1.5	1	
P-3	WALL MOUNTED SINK	1/2"	1/2"	1 1/2"	1 1/2"	1.5	1.5	1	
P-4	KITCHEN SINK	1/2"	1/2"	1 1/2"	1 1/2"	1.5	1.5	1	
P-5	MOP SINK	1/2"	1/2"	1 1/2"	1 1/2"	1.5	1.5	1	
P-6	AUTOPSY SINK	1/2"	1/2"	1 1/2"	1 1/2"	1.5	1.5	1	
P-7	SHOWER	1/2"	1/2"	4"	2"	1.5	1.5	2	
P-8	EYE WASH STATION	1/2"		2"	1 1/2"	1.5	0	1	
P-9	ICE MAKER OUTLET BOX	1/2"		2"	1 1/2"	0.25	0	1	
P-10	WASHER OUTLET BOX	1/2"	1/2"	2"	1 1/2"	0.25	0.25	2	

BALANCING VALVE SCHEDULE

DESIGNATION	FLOW (GPM)
BV-1.1	0.7
BV-1.2	0.3
BV-1.3	0.4

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SCHEDULES

SHEET NAME

PROJECT NUMBER 03240069.A0
DRAWN BY Author
CHECKED BY Approver
DATE 07/20/2026
SCALE

P-501

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