

CEILING RENOVATIONS

NEWINGTON ELEMENTARY SCHOOL

10 KING CHARLES CIRCLE

SUMMERVILLE, SC



CONSTRUCTION DOCUMENT SUBMITTAL		
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SCOPE OF WORK

- INTERIOR CEILING IMPROVEMENTS OF EXISTING BUILDING.
- DEMOLISH CEILING MOUNTED LIGHTS
 - DEMOLISH WALL MOUNTED EMERGENCY LIGHTS
 - DEMOLISH WALL AND CEILING MOUNTED EXIT SIGNS
 - DEMOLISH CEILING MOUNTED SUPPLY AND RETURN GRILLES
 - DEMOLISH ALL DUCTWORK BACK TO ROOF TOP UNITS
 - NEW ACOUSTICAL CEILING GRID AND TILES
 - NEW LED LIGHTING WITH OCCUPANCY SENSORS
 - NEW CEILING MOUNTED EMERGENCY LIGHTS
 - NEW CEILING MOUNTED EXIT SIGNS
 - NEW SUPPLY AND RETURN GRILLES
 - NEW DUCTWORK
 - REINSTALL EXISTING SMOKE DETECTORS TO REMAIN
 - REINSTALL EXISTING SPEAKERS TO REMAIN
 - REINSTALL CEILING MOUNTED WIRELESS ACCESS POINTS
 - ASBESTOS ABATEMENT - REFER TO SPECIFICATIONS

PROJECT TEAM

OWNER
DORCHESTER DISTRICT TOW

ARCHITECT
M. NIXON DESIGN, LLC
802 WEIR STREET
CHARLESTON SC 29412

MECHANICAL ENGINEER
OWENS AND ASSOCIATES, INC
1007 LAKE HUNTER CIRCLE
MT. PLEASANT, SC SC 29464

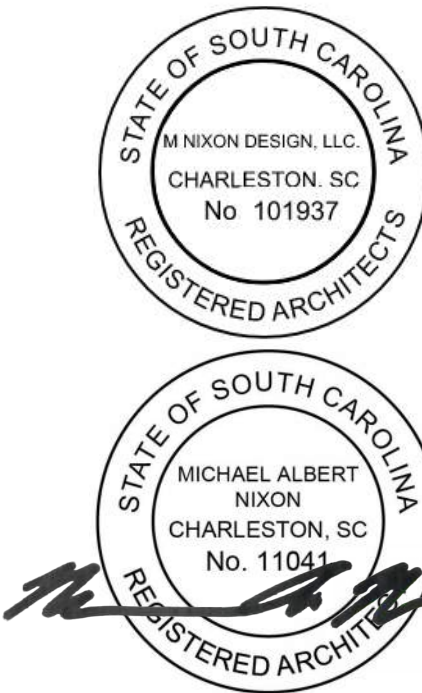
ELECTRICAL ENGINEER
CRITICAL SYSTEMS ENGINEERING
845 LOWCOUNTRY BOULEVARD SUITE H
MT. PLEASANT, SC 29464



802 Weir St
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02/18/26

NEWINGTON ES - CEILING RENOVATIONS

10 KING CHARLES CIRCLE

SUMMERVILLE, SC

REVISION SCHEDULE

#	DESCRIPTION	DATE
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CONSTRUCTION DOCUMENTS - OSF SUBMITTAL

PROJECT NUMBER:
25.006

DESIGNED & DRAWN BY: MN

ISSUE DATE:
02/18/26

COVER SHEET

G000

SCALE: 12" = 1'-0"

ABBREVIATIONS

AC	AIR CONDITIONING	HPT	HIGH POINT
AD	AREA DRAIN	HT	HEIGHT
AFF	ABOVE FINISH FLOOR	INCL	INCLUDED
AGGR	AGGREGATE	INSUL	INSULATION
ALT	ALTERNATE	JT	JOINT
ALUM	ALUMINUM	KS	KITCHEN SINK
APPROX	APPROXIMATE	L CL	LINEN CLOSET
ARCH	ARCHITECTURAL	LAM	LAMINATE
ASF	ABOVE STRUCTURAL FLOOR	LAV	LAVATORY
AVG	AVERAGE	LL	LIVE LOAD
B/ or BO	BOTTOM OF	LPT	LOW POINT
BD	BOARD	LV	LOW VOLTAGE
BITUM	BITUMINOUS	MASY	MASONRY
BLDG	BUILDING	MAX	MAXIMUM
BSMT	BASEMENT	MC	MEDICINE CABINET
CAB	CABINET	MECH	MECHANICAL
CEM	CEMENT	MFR	MANUFACTURER
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM
CL	CENTER LINE	MISC	MISCELLANEOUS
CLG	CEILING	MO	MASONRY OPENING
CLR	CLEAR	MTL	METAL
CMU	CONCRETE MANSONRY UNIT	MW	MICROWAVE
		NIC	NOT IN CONTRACT
COD	CO DETECTOR	NO	NUMBER
COL	COLUMN	NOM	NOMINAL
CONC	CONCRETE	NTS	NOT TO SCALE
CONST	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUOUS	OSD	OPEN SITE DRAIN
CPT	CARPET	PAN	PANTRY
CT	CERAMIC TILE	PL	PLATE
D	DEEP	PLAM	PLASTIC LAMINATE
DBL	DOUBLE	PT	PAINT
DEPT	DEPARTMENT	QT	QUARRY TILE
DIA	DIAMETER	R	RADIUS
DIM	DIMENSION	REF	REFRIGERATOR
DL	DEAD LOAD	REQD	REQUIRED
DN	DOWN	REV	REVISION
DS	DOWNSPOUT	RNG	RANGE
DW	DISHWASHER	RO	ROUGH OPENING
DWG	DRAWING	SC	SOLID CORE
EA	EACH	SD	SMOKE DETECTOR
EL	ELEVATION	SF	SQUARE FEET
ELEC	ELECTRICAL	SH	SHELF
ELEV	ELEVATOR	SST	STAINLESS STEEL
EMER	EMERGENCY	ST	STAINED
EQ	EQUAL	STD	STANDARD
EQPT	EQUIPMENT	STL	STEEL
EXIST	EXISTING	T&G	TONGUE AND GROOVE
EXT	EXTERIOR	THK	THICKNESS
FDTN	FOUNDATION	TYP	TYPICAL
FL	FLOOR DRAIN	UNO	UNLESS NOTED OTHERWISE
FP	FIRE PLACE	VERT	VERTICAL
FURN	FURNACE	VIF	VERIFY IN FIELD
G DISP	GARBAGE DISPOSAL	W	WIDE
GA	GAGE or GAUGE	W/D	WASHER / DRYER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WC	WATER CLOSET
		WD	WOOD
GYP BD	GYPSUM BOARD	WH	WATER HEATER
HC	HOLLOW CORE	WIC	WALK-IN CLOSET
HM	HOLLOW METAL	WP	WATERPROOF
HORIZ	HORIZONTAL	WWF	WELDED WIRE FABRIC

GENERAL DEMO NOTES

1. THE DEMOLITION CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ADHERENCE TO ALL LOCAL, STATE AND NATIONAL CODES AND ORDINANCES.
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS, POLICIES, AND PROCEDURES OF THE OWNER.
3. ALL WORK SHALL BE THE HIGHEST QUALITY FOLLOWING THE CONTRACT DOCUMENTS, PROJECT SPECIFICATION AND RECOMMENDATIONS, AND THE BEST ACCEPTED TRADE PRACTICES AND STANDARDS.
4. THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL COMPLETION OF THE PROJECT. THE CONTRACTOR AND HIS SUB- CONTRACTORS SHALL FURNISH ALL OF ITEMS AND LABOR REQUIRED FOR THE FULL CONTRACT COMPLETION OF THIS PROJECT. ACCEPTANCE BY THE OWNER SHALL BE A CONDITION OF THE CONTRACT.
5. THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY CONDITIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
6. THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR NOTIFYING ALL AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. DISCONNECT AND/OR CAP UTILITIES AS REQUIRED AND DIRECTED.
7. THE CONTRACTOR SHALL CONDUCT DEMOLITION WORK IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE DURING THE COURSE OF THE WORK.
8. THE CONTRACTOR IS TO CEASE OPERATIONS IF SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. DO NOT RESUME OPERATION UNTIL SAFETY IS RESTORED.
9. UNLESS DIRECTED OTHERWISE REMOVE ALL DEMOLISHED MATERIAL FROM THE SITE IN AN APPROVED MANNER AS THE WORK PROGRESSES. DO NOT BURN OR BURY DEMOLISHED MATERIALS ON SITE. AT THE COMPLETION OF THE WORK, ALL DEMOLISHED MATERIALS SHALL BE REMOVED AND THE SITE LEFT IN A CLEAN CONDITION.
10. DRAWINGS AND SPECIFICATIONS ARE TO BE ISSUED TO THE SUB-CONTRACTORS IN COMPLETE SETS SO THAT THE FULL EXTENT OF WORK IS SHOWN AND COORDINATION OF WORK IS MADE POSSIBLE.
11. THE CONTRACTOR SHALL PROVIDE AND PLACE BRACING OR SHORING AS NECESSARY FOR SUPPORT OF STRUCTURES.
12. REMOVE ALL MISCELLANEOUS ITEMS FROM WALLS, CEILINGS, COLUMNS AND FLOORS. COLUMNS, WALLS & FLOORS TO BE SMOOTH & FREE OF ALL PROTRUDING OBJECTS, UNLESS NOTED OTHERWISE.
13. MAINTAIN (2) TWO MEANS OF EGRESS (MINIMUM) PER FLOOR DURING DEMOLITION WORK.
14. PROTECT EXISTING BUILDING AND ADJACENT SURFACES, FEATURES AND PROPERTY. REMOVE DEBRIS FROM SITE DAILY.
15. DO NOT SCALE DRAWINGS.
16. REFER TO ALL DRAWINGS AND SPECIFICATIONS FOR FULL COORDINATION OF WORK.
17. THE PREMISES SHALL BE KEPT IN A BROOM SWEEPED FINISH CONDITION DURING DEMOLITION WORK, ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR CLEANING UP AND DISPOSING OF THEIR LITTER AND LEFT OVER MATERIALS ON A REGULAR BASIS AND LEAVE THE PROJECT A BROOM FINISH CONDITION UPON COMPLETION OF THEIR PORTION OF THIS PROJECT.
18. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES IN ORDER TO AVOID INTERFERENCES AND OMISSIONS.
19. THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND BARRICADES AROUND THE SITE, AS REQUIRED, AND AT ANY OPENINGS THAT MIGHT PRESENT A HAZARD.

GENERAL NOTES

- A. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL MECHANICAL CODE, THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS HAVING JURISDICTION.
- B. ALL CONSTRUCTION SHALL BE HANDICAP ACCESSIBLE AND COMPLY WITH BARRIER FREE DESIGN ADA AND ANSI 117.1 AND OTHER APPLICABLE STANDARDS. TOILET ROOMS AND FACILITIES SHALL BE CONSTRUCTED AS REQUIRED TO COMPLY WITH THE ACCESSIBILITY STANDARDS OF THE ADA AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES AND ORDINANCES.
- C. THESE DRAWINGS ARE BASED ON EXISTING BUILDING DOCUMENTATION. ACTUAL SITE CONDITIONS MAY DIFFER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DRAWINGS PRIOR TO THE START OF WORK. NO ADDITIONAL COMPENSATION WILL BE PAID DUE TO THE CONTRACTOR'S FAILURE TO ACQUAINT THEMSELVES WITH EXISTING SITE CONDITIONS.
- D. DO NOT SCALE OFF DRAWINGS; DIMENSIONS IN QUESTION SHALL BE CLARIFIED BY ARCHITECT.



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02/18/26

NEWINGTON ES -
CEILING
RENOVATIONS

10 KING CHARLES CIRCLE

SUMMERVILLE, SC

REVISION SCHEDULE

#	DESCRIPTION	DATE
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CONSTRUCTION
DOCUMENTS - OSF
SUBMITTAL

PROJECT NUMBER:
25.006

DESIGNED & DRAWN BY: MN

ISSUE DATE:
02/18/26

GENERAL NOTES

G001

SCALE: As indicated

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02/18/26

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SUMMERVILLE, SC

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CONSTRUCTION
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SUBMITTAL

PROJECT NUMBER:
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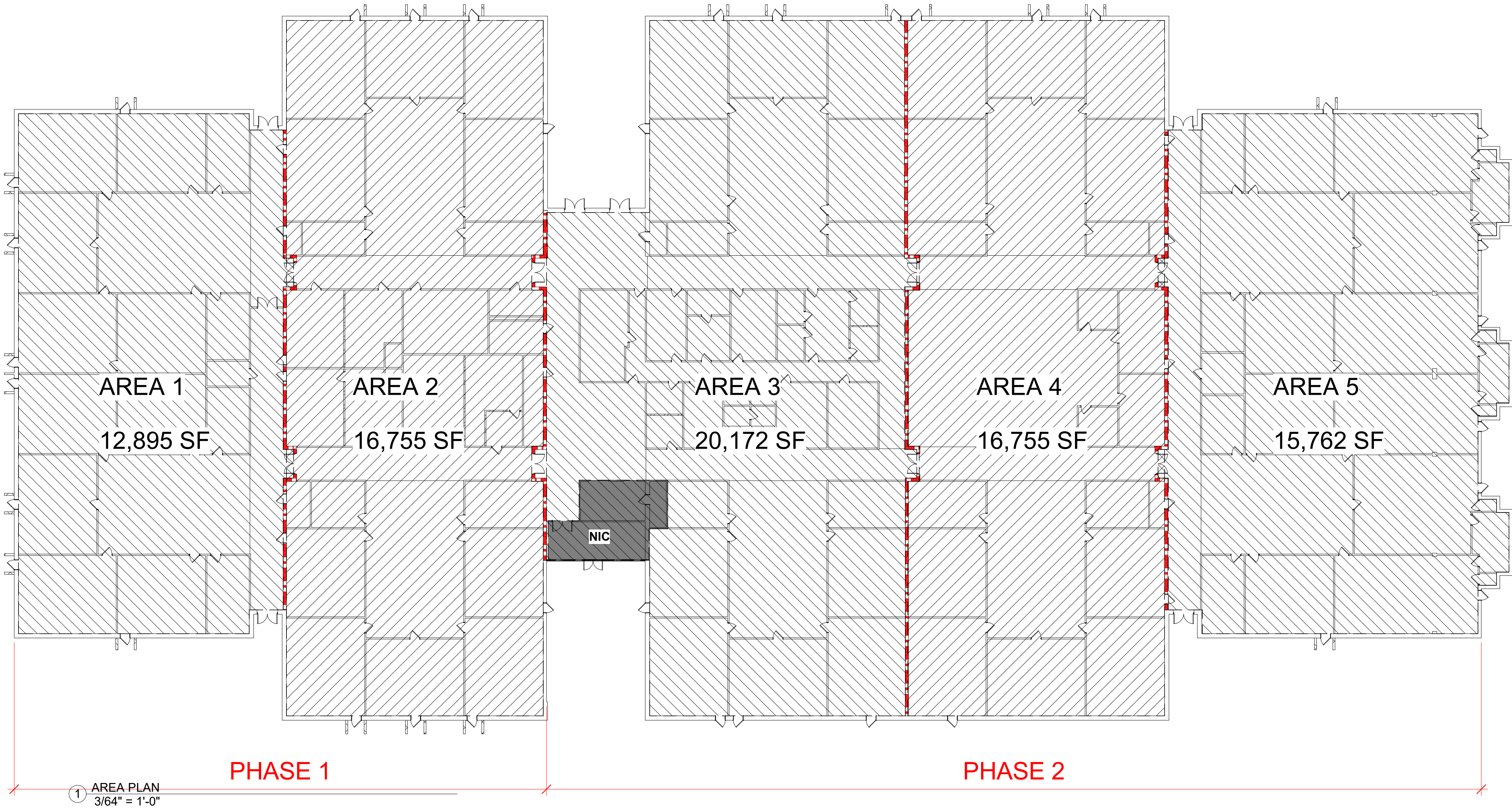
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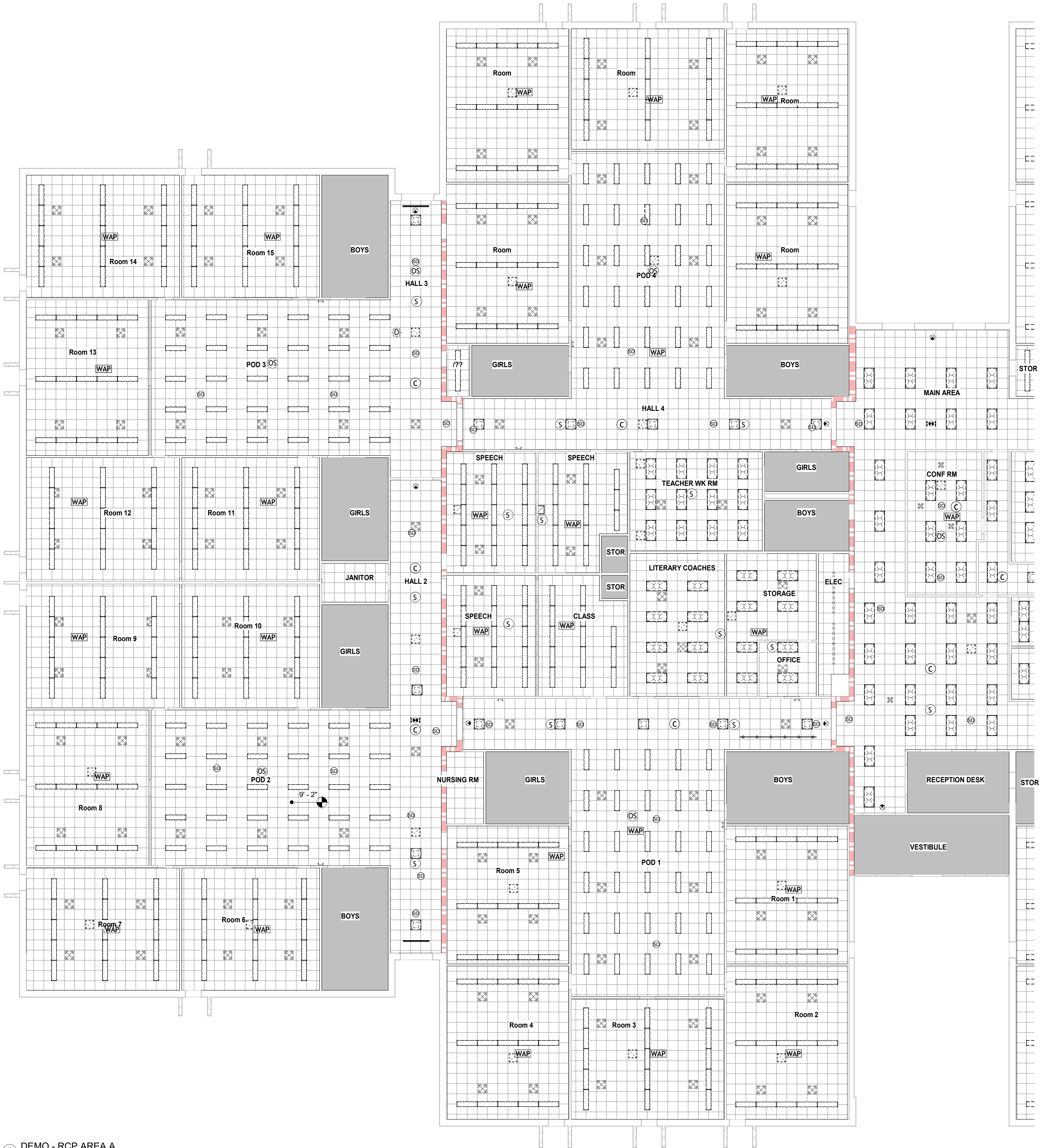
ISSUE DATE:
02/18/26

AREA PLAN

G100

SCALE: 3/64" = 1'-0"





DEMO LEGEND

- DEMOLISH 2X2 CEILING GRID
- CEILING NOT IN CONTRACT
- DEMOLISH 2X2 LIGHT FIXTURE
- DEMOLISH 2X4 LIGHT FIXTURE
- DEMOLISH LINEAR LIGHT
- DEMOLISH 1X4 LIGHT FIXTURE
- DEMOLISH EXIT SIGN
- DEMOLISH SUPPLY GRILL
- DEMOLISH RETURN GRILL
- DEMOLISH PROJECTOR PANEL
- DEMOLISH TRACK LIGHTING
- DEMOLISH DATA JACK
- DEMOLISH WALL MOUNTED EMERGENCY LIGHT

ITEMS TO REMAIN LEGEND

- OCCUPANCY SENSOR TO REMAIN
- SPEAKER TO REMAIN
- WIRELESS ACCESS POINT TO REMAIN
- SMOKE DETECTOR TO REMAIN
- EXISTING WALL
- EXISTING WALL UP TO EXISTING CEILING
- RATED WALL

NOTES:

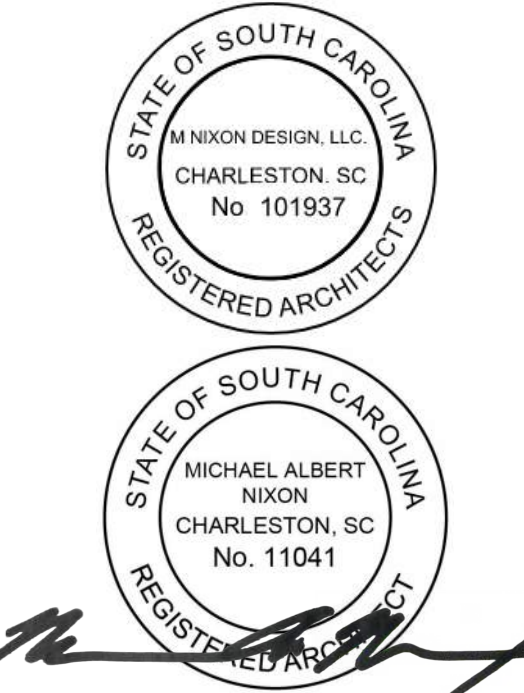
- REFER TO SPECIFICATIONS FOR ASBESTOS ABATEMENT
- REFER TO SHEET G100 FOR PHASING



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DOCUMENTS - OSF
SUBMITTAL

PROJECT NUMBER:
25.006

DESIGNED & DRAWN BY: MN

ISSUE DATE:
02/18/26

DEMO - RCP - AREA A

D101

SCALE: As indicated

1 DEMO - RCP AREA A
3/32" = 1'-0"



1 DEMO - RCP AREA B
3/32" = 1'-0"

DEMO LEGEND

- DEMOLISH 2X2 CEILING GRID
- CEILING NOT IN CONTRACT
- DEMOLISH 2X2 LIGHT FIXTURE
- DEMOLISH 2X4 LIGHT FIXTURE
- DEMOLISH LINEAR LIGHT
- DEMOLISH 1X4 LIGHT FIXTURE
- DEMOLISH EXIT SIGN
- DEMOLISH SUPPLY GRILL
- DEMOLISH RETURN GRILL
- DEMOLISH PROJECTOR PANEL
- DEMOLISH TRACK LIGHTING
- DEMOLISH DATA JACK
- DEMOLISH WALL MOUNTED EMERGENCY LIGHT

ITEMS TO REMAIN LEGEND

- OCCUPANCY SENSOR TO REMAIN
- SPEAKER TO REMAIN
- WIRELESS ACCESS POINT TO REMAIN
- SMOKE DETECTOR TO REMAIN
- EXISTING WALL
- EXISTING WALL UP TO EXISTING CEILING
- RATED WALL

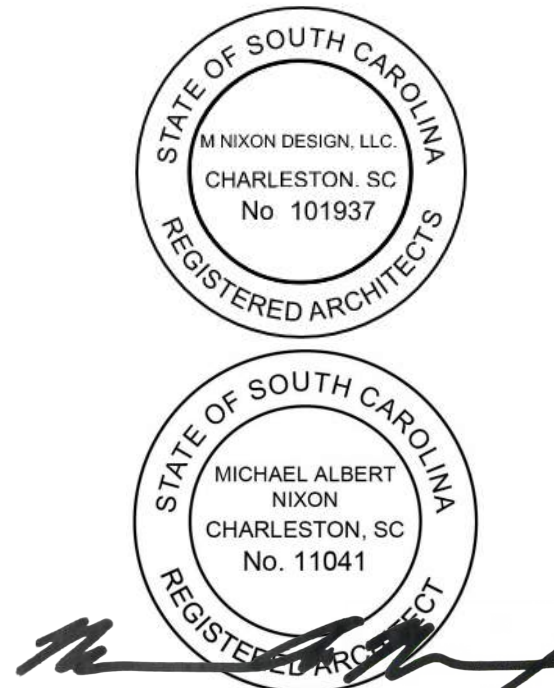
- NOTES:
- REFER TO SPECIFICATIONS FOR ASBESTOS ABATEMENT
 - REFER TO SHEET G100 FOR PHASING



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05/02/25

NEWINGTON ES - CEILING RENOVATIONS

10 KING CHARLES CIRCLE

SUMMERVILLE, SC

REVISION SCHEDULE

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DESIGNED & DRAWN BY: Author

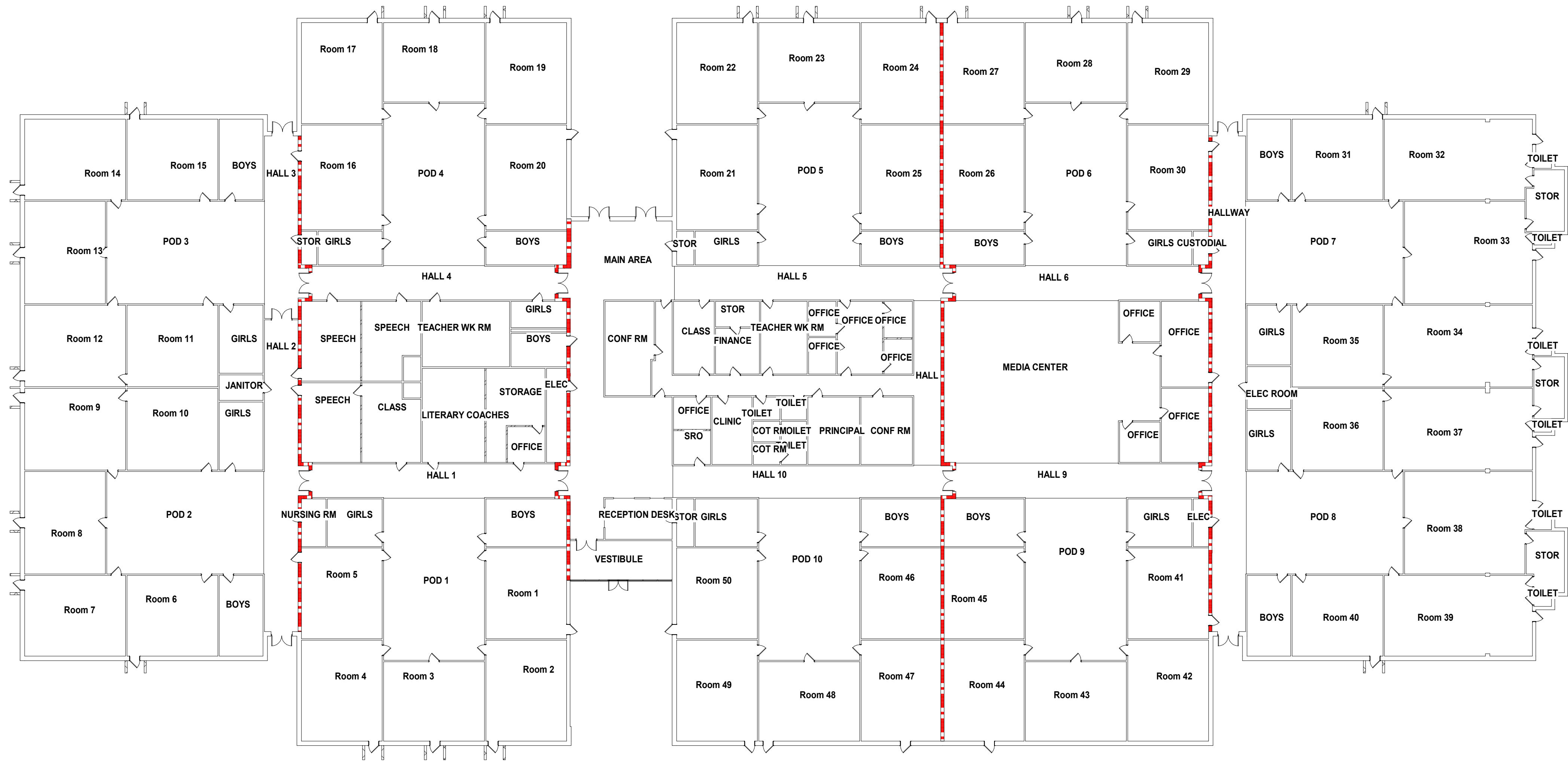
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DEMO - RCP - AREA B

D102

SCALE: As indicated

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① GROUND FLOOR (NEW)
3/64" = 1'-0"

NOTES:
1. REFER TO SHEET G100 FOR PHASING



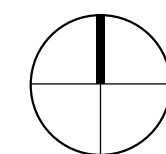
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NEWINGTON ES - CEILING RENOVATIONS

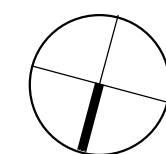
10 KING CHARLES CIRCLE

SUMMERVILLE, SC

PROJECT NORTH



TRUE NORTH



REVISION SCHEDULE

#	DESCRIPTION	DATE
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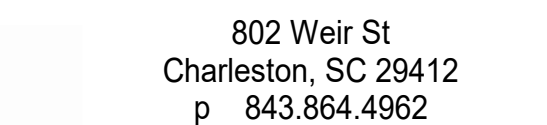
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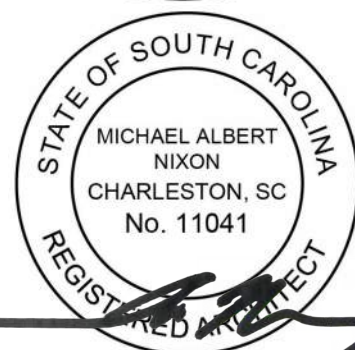
OVERALL FLOOR PLAN

A100

SCALE: 3/64" = 1'-0"



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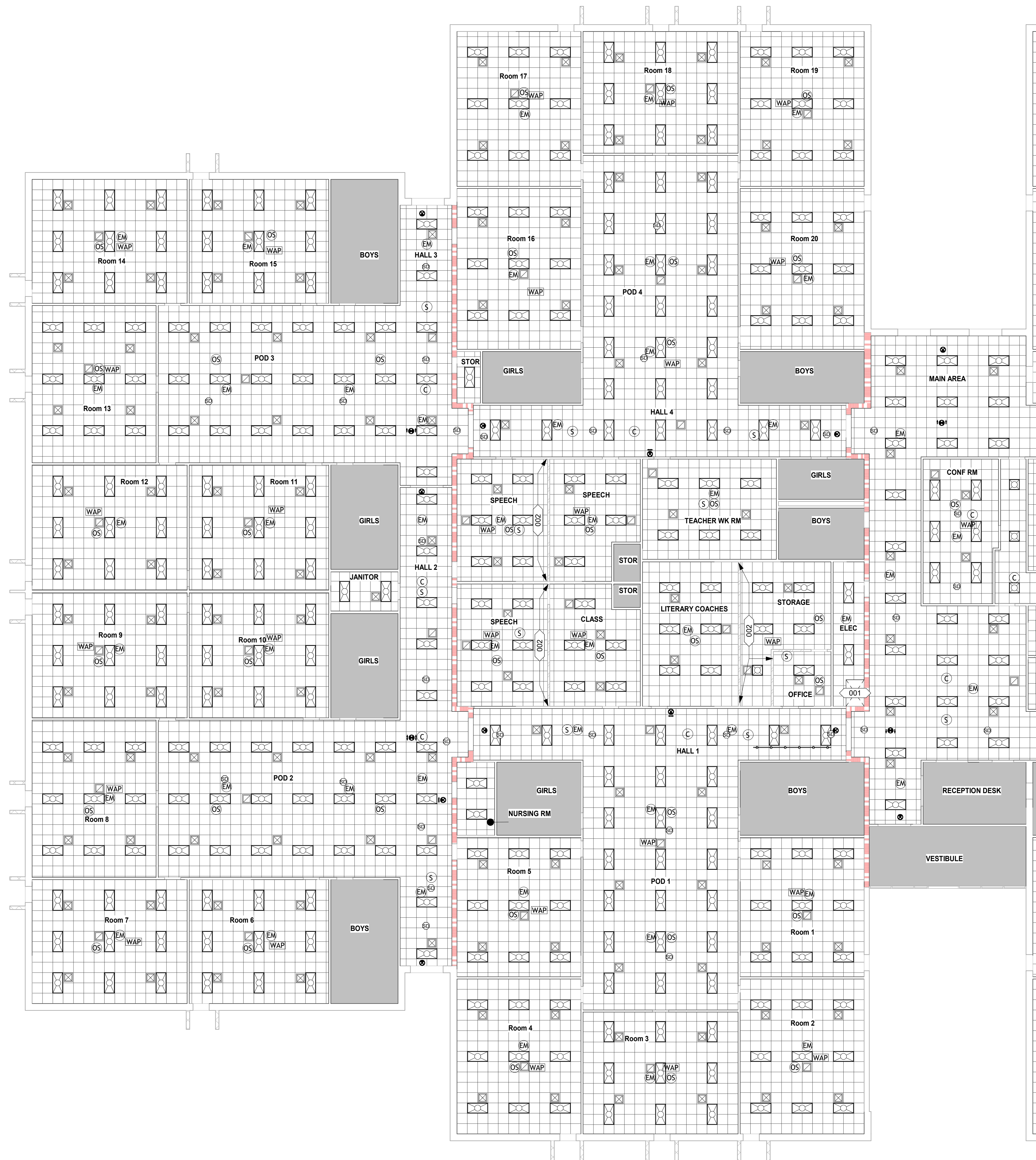
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02/18/26

A101

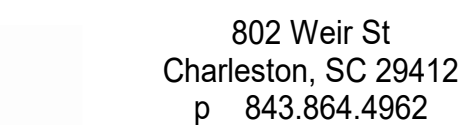
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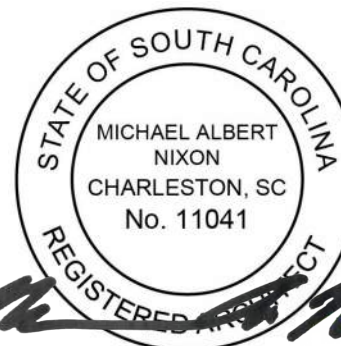
① NEW - RCP AREA A
3/32" = 1'-0"

NOTES:
1. REFER TO SHEET G100 FOR PHASING

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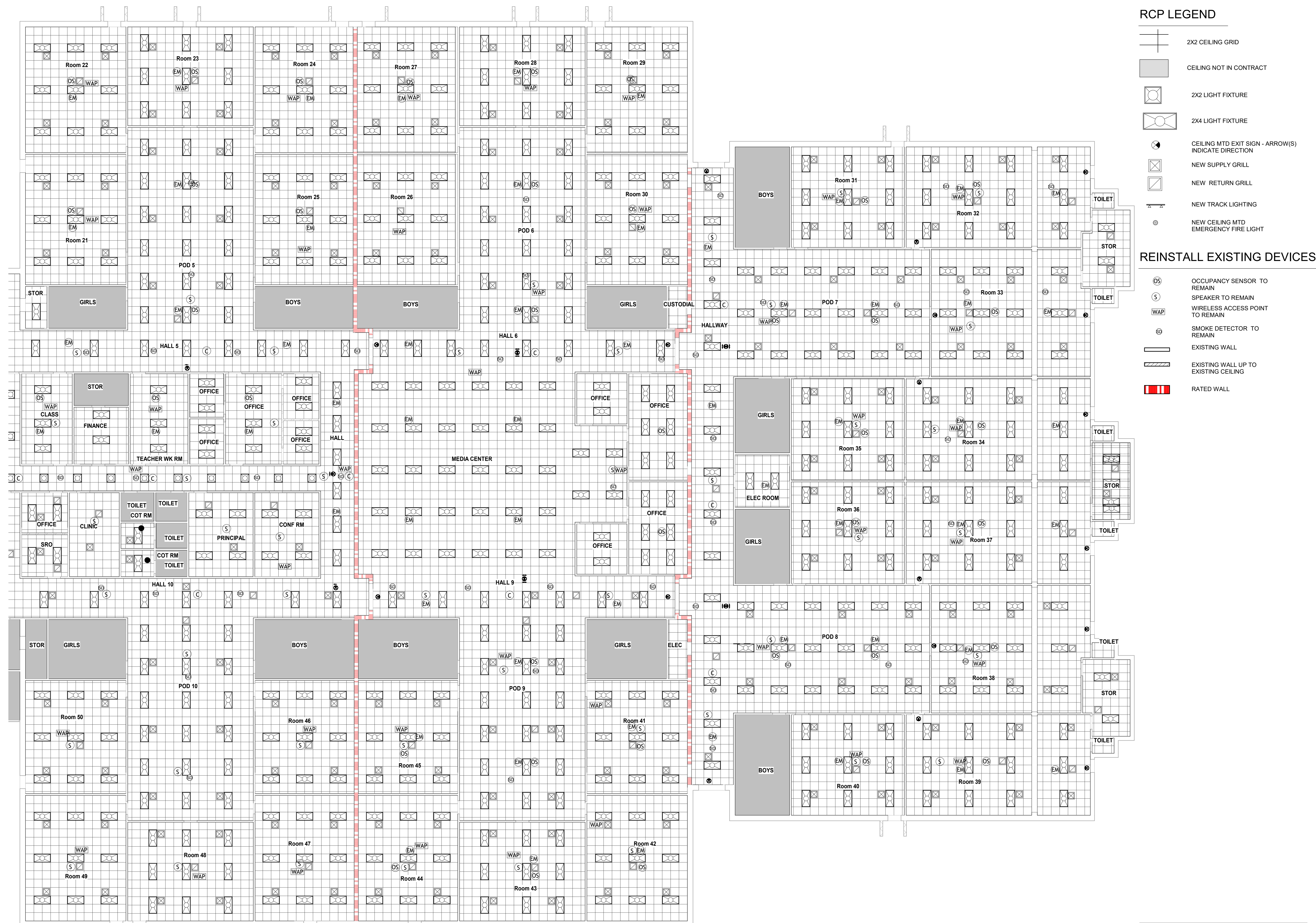
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RCP - AREA B

A102

SCALE: As indicated



NOTES:
1. REFER TO SHEET G100 FOR PHASING

① NEW - RCP AREA B
3/32" = 1'-0"

2/23/2026 4:13:24 PM



02/18/26

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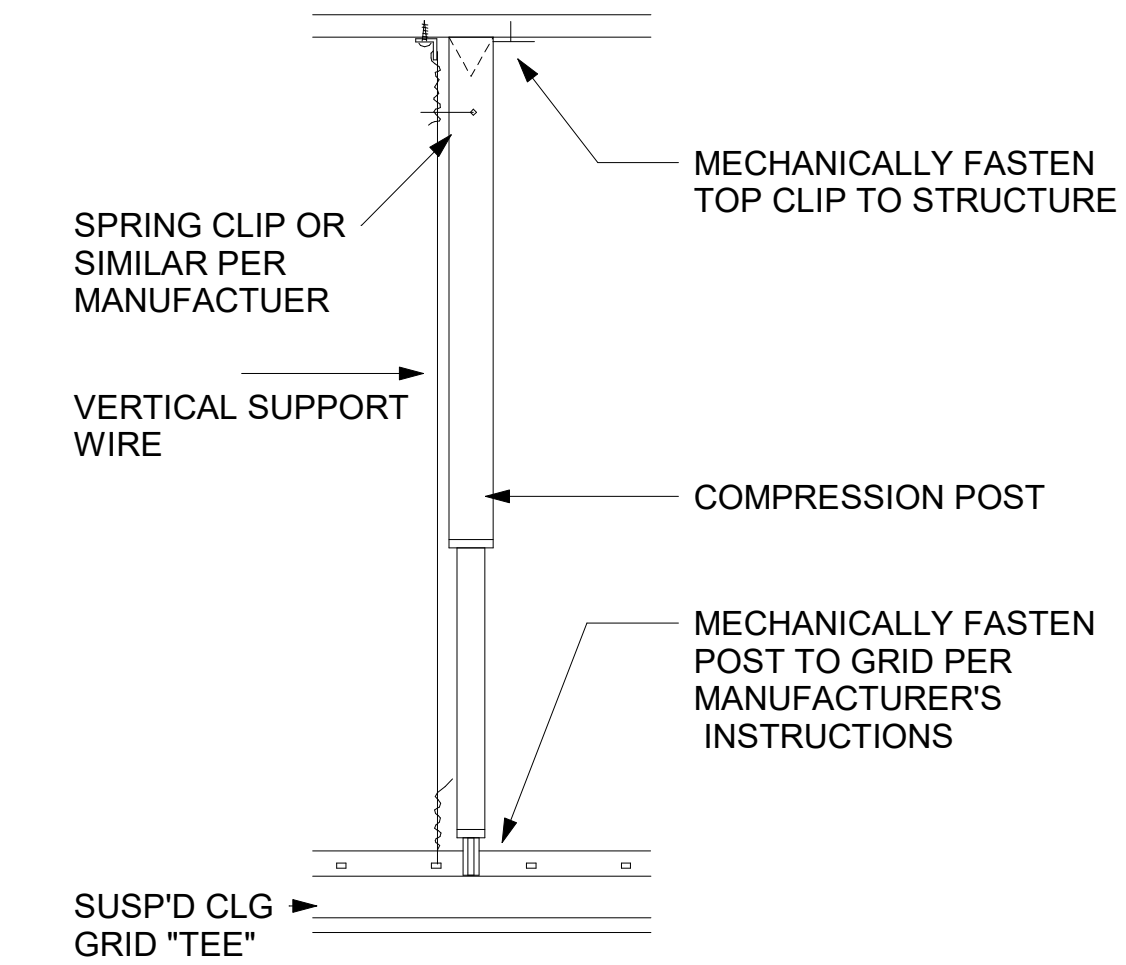
TYPICAL CEILING DETAILS

A110

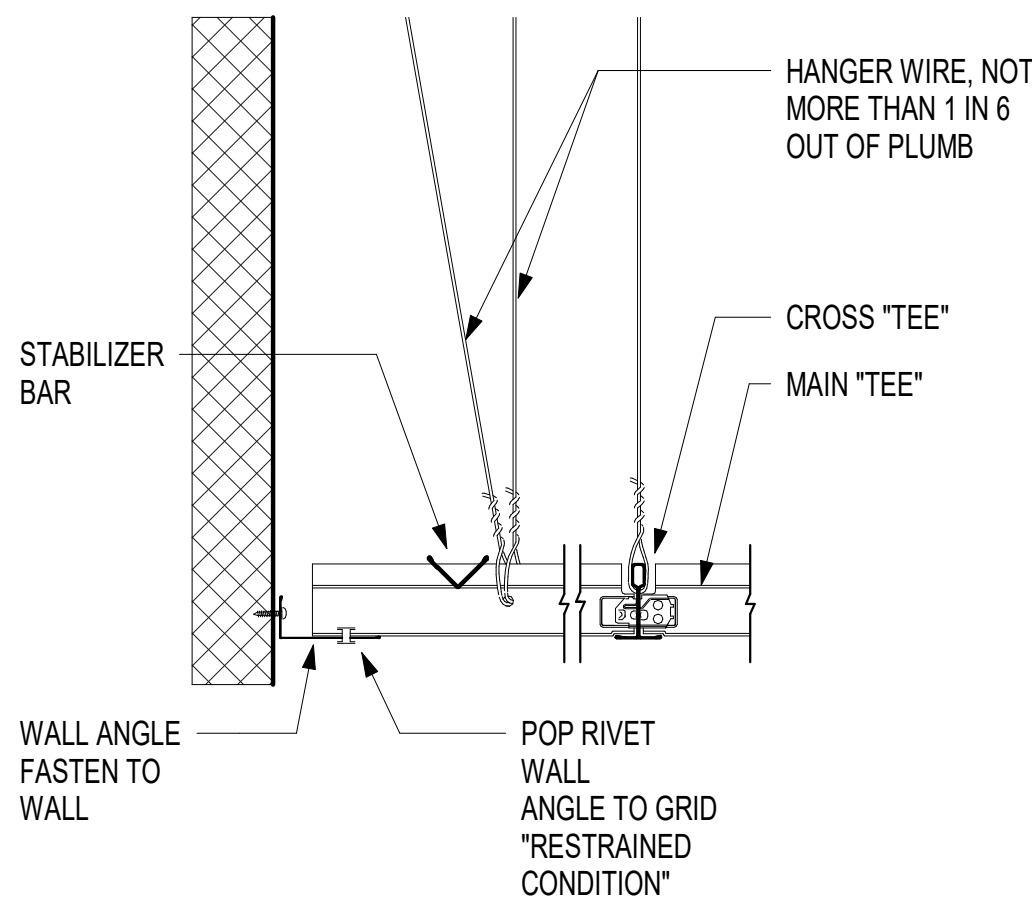
SCALE: As indicated

SEISMIC RESTRAINTS FOR SUSPENDED ACOUSTIC CEILINGS

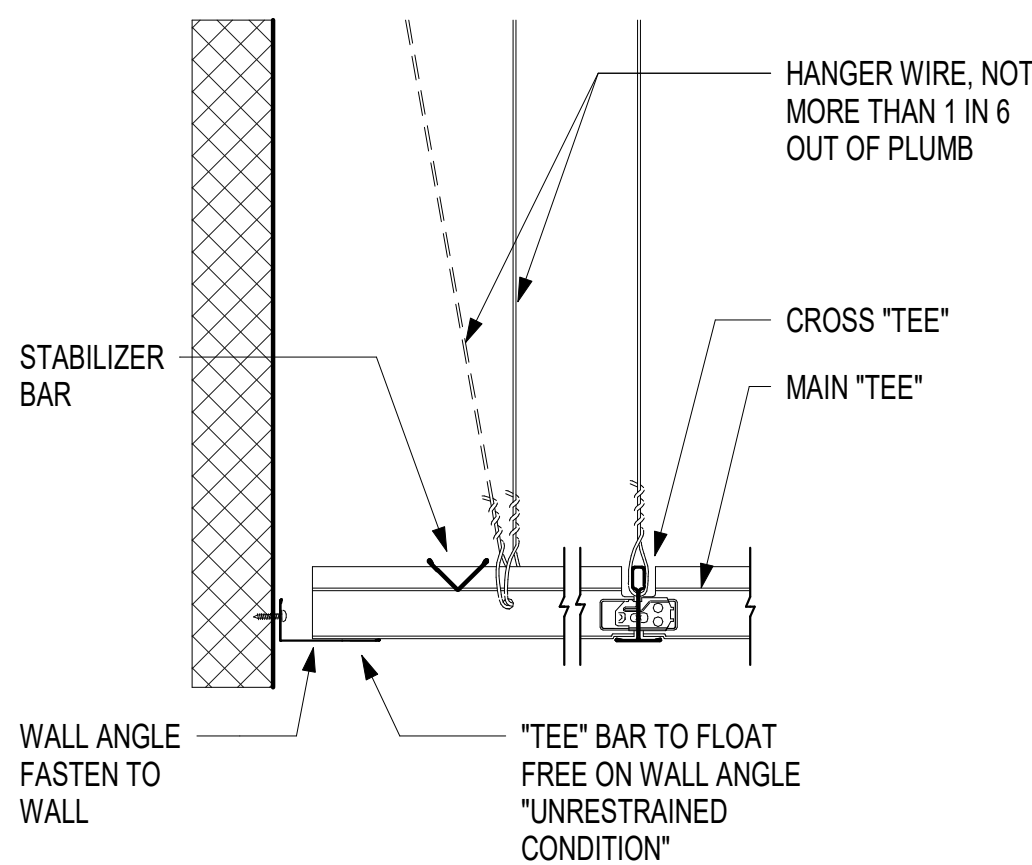
CEILING COMPONENT	IBC CATEGORY "D", "E" OR "F" - ASTM E580 ZONES 3 & 4	
	UP TO 1,000 SF	GREATER THAN 1,000 SF
INTERSECTION STRENGTH AT MAIN / CROSS TEES	180 LBS.	180 LBS.
HANGER WIRE (MIN. OF 3 TWISTS)	12 GAUGE @ 4' o.c. EACH WAY	12 GAUGE @ 4' o.c. EACH WAY
CONNECTION @ WIRE / STRUCTURE ABOVE	100 LBS. MINIMUM	100 LBS. MINIMUM
MAIN TEE CLASSIFICATION	HEAVY DUTY	HEAVY DUTY
MAXIMUM OUT OF PLUMB	1 IN 6 MAXIMUM	1 IN 6 MAXIMUM
PERIMETER WIRE DISTANCE FROM WALLS	8" MAXIMUM	8" MAXIMUM
GRID CONNECTION TO PERIMETER WALLS	ATTACHED TO TWO ADJACENT WALLS	ATTACHED TO TWO ADJACENT WALLS
PERIMETER TEE ENDS TIED TOGETHER	YES, WITH STABILIZER BAR	YES, WITH STABILIZER BAR
PERIMETER MOLDING WIDTH	2 INCH MINIMUM	2 INCH MINIMUM
GRID / WALL CLEARANCE	3/4 INCH MINIMUM	3/4 INCH MINIMUM
SPLAY BRACING 90° APART @ 45° ANGLES	NOT REQUIRED	REQ'D WITHIN 2" OF TEE INTERSECTION @ 12'-0" o. c. E.W.
SPLAY BRACING CONNECTION STRENGTH	N/A	GREATER OF 200 LBS. OR DESIGN LOAD
COMPRESSION POSTS	NOT REQUIRED	REQ'D @ 12' O.C. EACH WAY, STARTING 6' FROM WALLS
PARTITION ATTACHMENT	BRACE INDEPENDENT OF CEILING GRID	BRACE INDEPENDENT OF CEILING GRID
SEISMIC SEPARATION JOINT	NOT REQUIRED	REQUIRED WHERE AREA IS > 2,500 SF
RIGID BRACING AT CEILING PLANE CHANGES	YES	YES
ALL LIGHT FIXTURES ATTACHED TO GRID, TYPICAL	AT 2 POINTS UNLESS INDEPENDENTLY SUPPORTED	AT 2 POINTS UNLESS INDEPENDENTLY SUPPORTED
SURFACE MOUNTED LIGHT FIXTURE	ATTACH TO GRID	ATTACH TO GRID
PENDANT HUNG LIGHT FIXTURE	SUPPORT DIRECTLY FROM STRUCTURE W/ 9 GA. WIRE	SUPPORT DIRECTLY FROM STRUCTURE W/ 9 GA. WIRE
RECESSED LIGHT FIXTURE < 10 LBS.	SUPPORT WITH ONE WIRE TO STRUCTURE	SUPPORT WITH ONE WIRE TO STRUCTURE
LAY-IN OR RECESSED LIGHT FIXTURE, 10 TO 56 LBS.	TWO WIRES TO STRUCTURE ON DIAGONAL	TWO WIRES TO STRUCTURE ON DIAGONAL
LAY-IN OR RECESSED LIGHT FIXTURE > 56 LBS.	SUPPORT INDEPENDENTLY FROM STRUCTURE	SUPPORT INDEPENDENTLY FROM STRUCTURE
AIR TERMINALS < 20 LBS.	POSITIVELY ATTACHED TO GRID	POSITIVELY ATTACHED TO GRID
AIR TERMINALS, 20 TO 56 LBS.	POSITIVELY ATTACH TO GRID + 2 WIRES TO STRUCTURE	POSITIVELY ATTACH TO GRID + 2 WIRES TO STRUCTURE
AIR TERMINALS > 56 LBS.	SUPPORT DIRECTLY FROM STRUCTURE	SUPPORT DIRECTLY FROM STRUCTURE
SPRINKLER HEAD CLEARANCE	2 INCH MINIMUM OPENING OR SWING JOINT	2 INCH MINIMUM OPENING OR SWING JOINT
MISC. PENETRATION CLEARANCE	2 INCH MINIMUM OPENING OR FLEX JOINT	2 INCH MINIMUM OPENING OR FLEX JOINT
CABLE TRAYS	SUPPORT DIRECTLY FROM STRUCTURE	SUPPORT DIRECTLY FROM STRUCTURE
CONDUIT AND PIPING	SUPPORT DIRECTLY FROM STRUCTURE	SUPPORT DIRECTLY FROM STRUCTURE
-	-	-



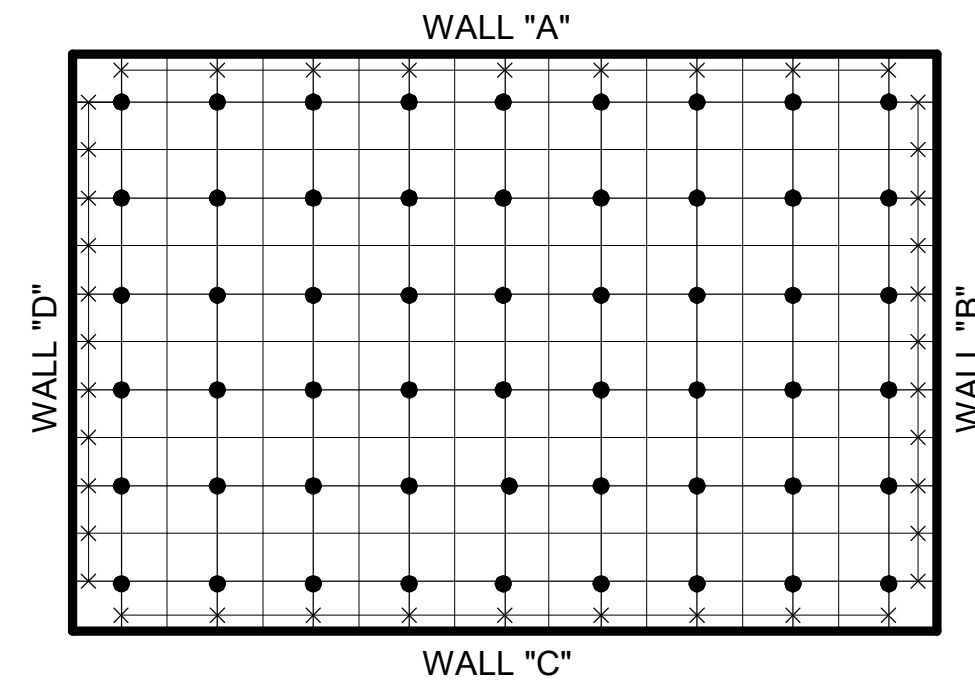
② COMPRESSION POST
1/64" = 1'-0"



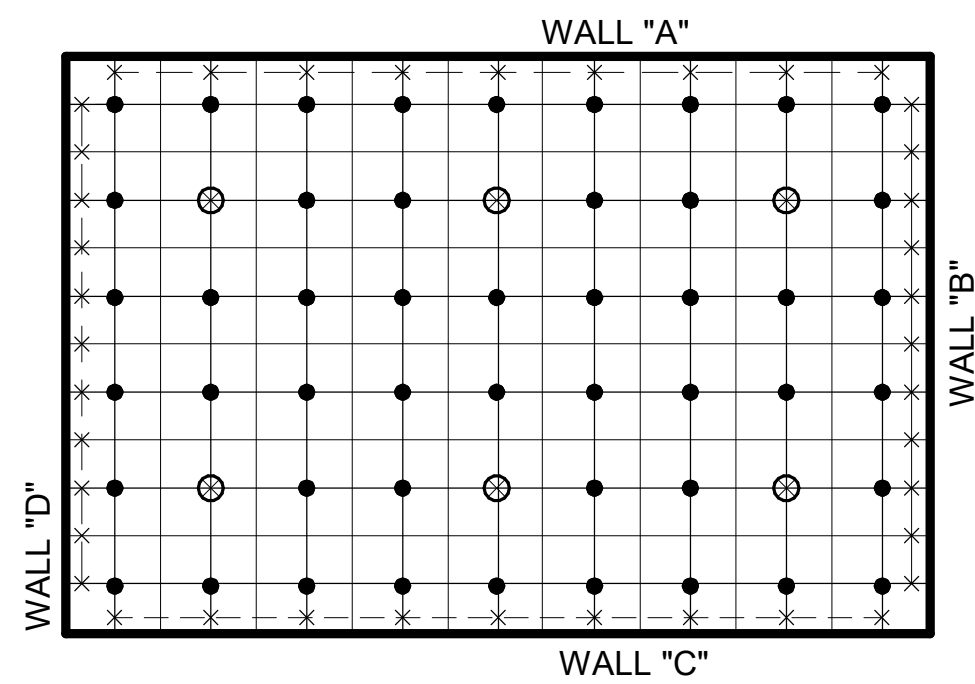
③ ACT SEISMIC GRID AT WALL A
3" = 1'-0"



④ UNRESTRAINED GRID / WALL
3" = 1'-0"



⑤ GRID WHEN ROOM < 1,000 SF
1/8" = 1'-0"



⑥ GRID WHEN ROOM > 1,000 SF
1/8" = 1'-0"



802 Weir St
Charleston, SC 29412
p 843.864.4962

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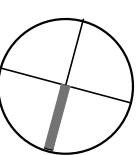
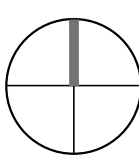
NEWINGTON ES - CEILING RENOVATIONS

10 KING CHARLES CIRCLE

SUMMERVILLE, SC

PROJECT NORTH

TRUE NORTH



REVISION SCHEDULE

#	DESCRIPTION	DATE
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BID SET

PROJECT NUMBER:
25.006

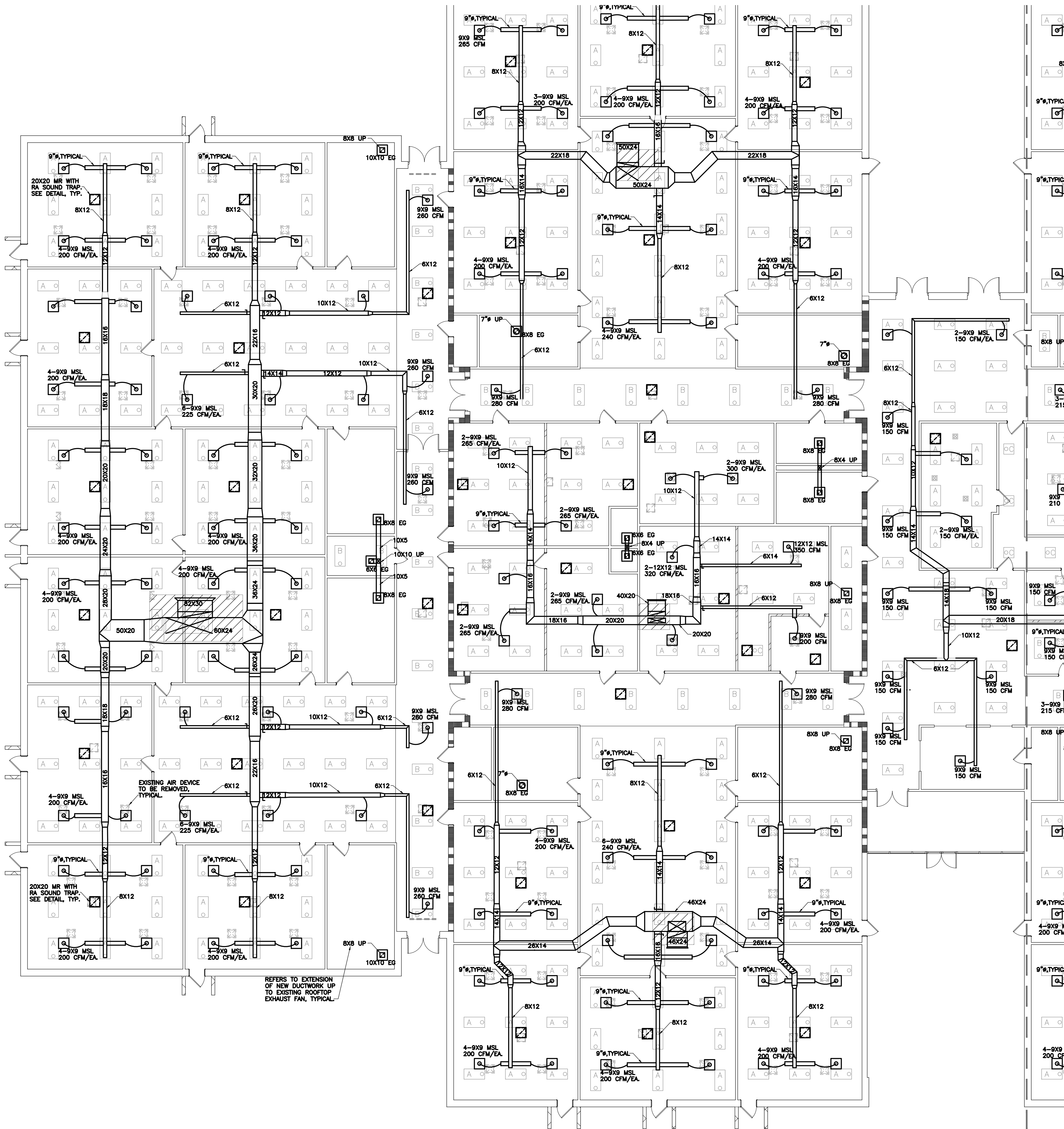
DESIGNED & DRAWN BY: CDO

ISSUE DATE:
2/18/2026

MECHANICAL
PLAN-WEST

M101

SCALE: 3/32" = 1'-0"

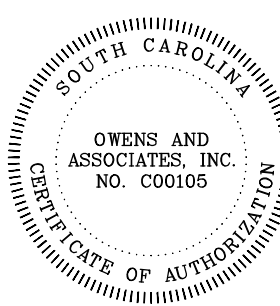


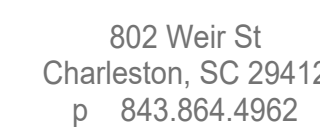
① MECHANICAL PLAN - (WEST)
3/32" = 1'-0"

MATCHLINE

OWENS AND ASSOCIATES, INC.
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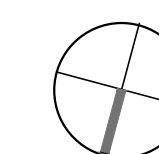
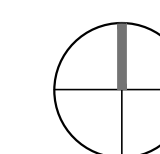
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10 KING CHARLES CIRCLE

SUMMERVILLE, SC

PROJECT NORTH

TRUE NORTH



REVISION SCHEDULE		
#	DESCRIPTION	DATE

OSF SUBMITTAL
SET

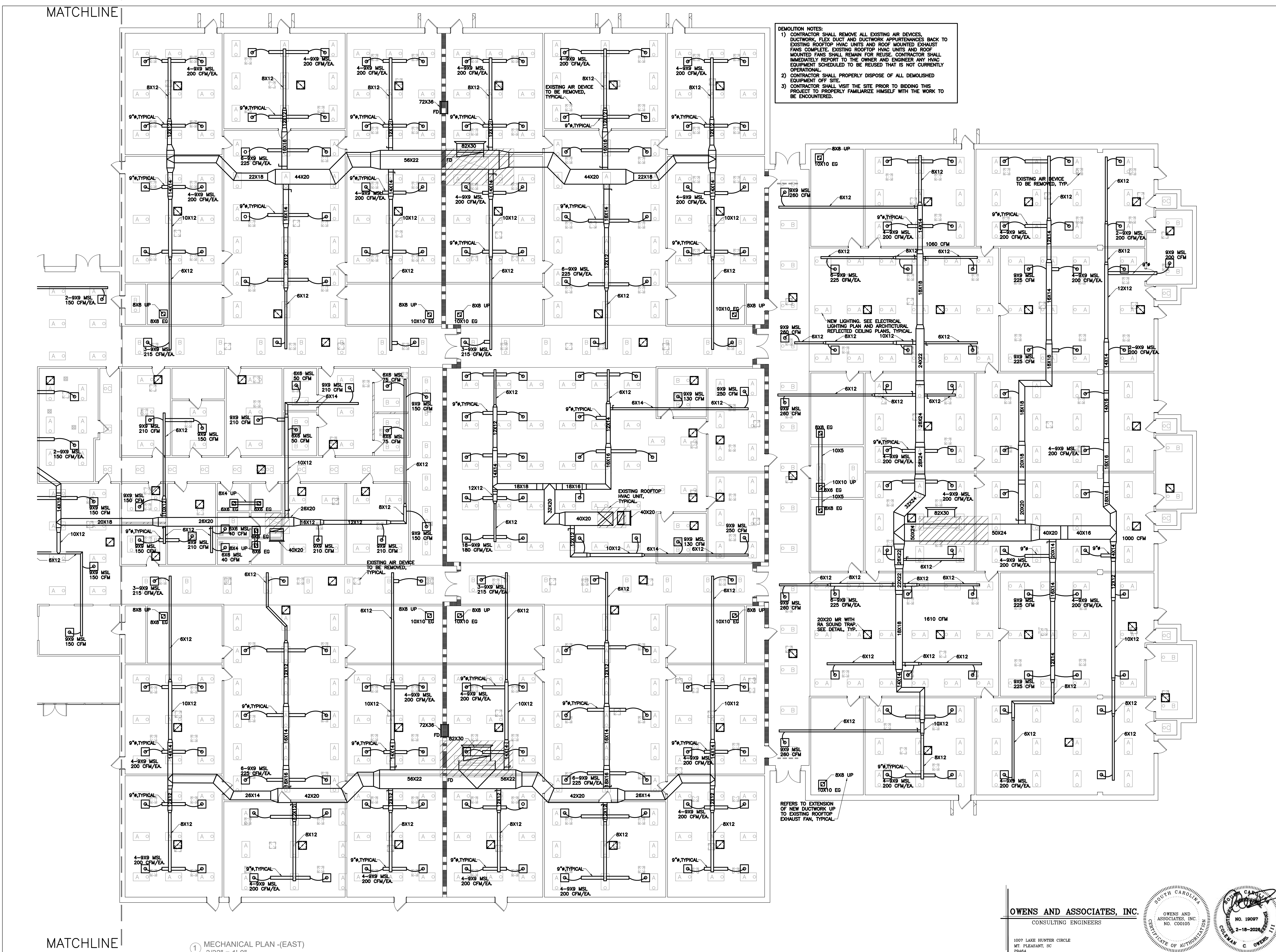
PROJECT NUMBER:
25.006

DESIGNED & DRAWN BY: CDO

ISSUE DATE
2/18/2026

MECHANICAL
PLAN -EAST
M102

SCALE: 3/32" = 1'-0"



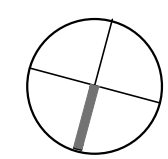
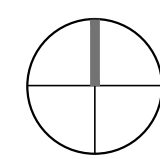
NEWINGTON ES - CEILING RENOVATIONS

10 KING CHARLES CIRCLE

SUMMERVILLE, SC

PROJECT NORTH

TRUE NORTH



REVISION SCHEDULE

#	DESCRIPTION	DATE
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OSF SUBMITAL SET

PROJECT NUMBER:
25.006

DESIGNED & DRAWN BY: CDO

ISSUE DATE:
2/18/2026

MECHANICAL SCHEDULES/DETAILS

M201

SCALE: 3/32" = 1'-0"

GENERAL MECHANICAL NOTES

- UNLESS OTHERWISE INDICATED, ALL ROOF PENETRATIONS AND FLASHINGS SHALL ADHERE TO NRCA ROOFING AND WATER PROOFING MANUAL, 5TH EDITION, CONSTRUCTION DETAILS. SEE ROOF NOTES.
- CONTRACTOR SHALL FURNISH TO OWNER AT COMPLETION OF PROJECT, A COMPLETE SET OF WRITTEN OPERATING INSTRUCTIONS FOR ALL SYSTEMS.
- PROVIDE SEISMIC SUPPORTS FOR ALL NEW AIR DEVICES. SEE SPECIFICATIONS AND NOTES ON AIR DEVICE SCHEDULE.
- PROVIDE 2-1/2"x2-1/2"x1/4" GALVANIZED STEEL ANGLES, 3/8" THREADED HANGER ROD, AND OTHER SUPPLEMENTAL STEEL AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT FROM THE STRUCTURE, DUCTWORK, UNIT HEATERS, EXHAUST FANS, ETC.
- ALL RETURN DUCT CONNECTIONS TO AIR DEVICES SHALL BE RECTANGULAR UNLESS OTHERWISE INDICATED ON PLANS. USE OF FLEXIBLE DUCT FOR RETURN IS NOT PERMISSIBLE.
- REFER TO FLOOR PLANS FOR LOCATIONS OF FIRE-RATED ASSEMBLIES. CONTRACTOR SHALL COMPLETELY FILL AROUND ALL OPENINGS REQUIRED FOR HIS WORK IN ACCORDANCE WITH DETAILS WITH APPROVED FIRE-PROOF MATERIALS.
- CEILING AIR DEVICE INSTALLATIONS SHALL CONFORM TO THE APPROPRIATE UL ASSEMBLY NUMBER PER THE CODE ANALYSIS DATA FOR THIS PROJECT.
- CONTRACTOR SHALL SEAL ALL DUCTWORK WITH DUCT SEALANT PER SPECIFICATIONS. DUCT TAPE SHALL NOT BE USED TO SEAL DUCTWORK.
- THE CONTRACTOR IS INSTRUCTED TO VISIT THE SITE PRIOR TO SUBMITTING A BID TO FAMILIARIZE HIMSELF WITH ALL WORK TO BE ENCOUNTERED. NO EXTRA CHARGE WILL BE APPROVED AFTER START OF CONSTRUCTION FOR FAILURE TO FOLLOW THESE INSTRUCTIONS.
- CONTRACTOR SHALL PROVIDE THREADED RODS, 1/4", OR OTHER APPROVED MEANS TO LATEROALLY SUPPORT ALL SUSPENDED MECHANICAL EQUIPMENT, DUCTS, ETC. IN ACCORDANCE WITH THE SEISMIC DESIGN REQUIREMENTS IN CHAPTER 16 OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION.
- CONTRACTOR SHALL REMOVE ALL EXISTING AIR DEVICES, DUCTWORK AND APPURTENANCES AS NOTED IN THE DEMOLITION NOTES AND REPLACE WITH NEW AIR DEVICES AND DUCT AS SHOWN. RECONNECT NEW DUCTWORK TO NEW DUCTWORK AS SHOWN. SEE SPECIFICATIONS FOR DUCTWORK AND DUCT INSULATION REQUIREMENTS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF DEVICES IN THE NEW CEILING GRID. CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF ALL NEW AIR DEVICES WITH ELECTRICAL CONTRACTOR AND CEILING INSTALLER. PROVIDE SEISMIC SUPPORTS FOR ALL NEW AIR DEVICES. TYPICAL. SEE NOTE 4 UNDER AIR DEVICE SCHEDULE FOR ADDITIONAL AIR DEVICES TO BE PROVIDED.

DESIGN CONDITIONS		
	COOLING	HEATING
OUTSIDE	95F DB, 78F WB	20F DB
INSIDE	74F DB, 62F WB	70F DB

SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
Ⓢ	THERMOSTAT WITH LOCK COVER
Ⓜ	HUMIDISTAT WITH LOCK COVER
Ⓢ	CO2 SENSOR WITH LOCK COVER
Ⓢ	EXHAUST FAN
TR GR/EX GR	TRANSFER GRILLE / EXHAUST GRILLE
→ S	AIR TURNING WANE
→ S	SPLITTER DAMPER
FD/-	FIRE DAMPER / HOUR RATING
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
⌌	INDICATION OF ROOF MOUNTED EQUIPMENT
H	MANUAL DAMPER (O.B.M.D.)

AIR DEVICE SCHEDULE

SYMBOL	TYPE	MANUFACTURER & MODEL			REMARKS (COORDINATE W/ FINISH SCHED.)
		METAL-AIRE	RELIABLE	PRICE	
MSL	LOUV/MOD.SUP.	5000* (NOTE 2)	DCD-4	AMD	W/ OBD & FULL-SIZE ADAPTOR
MR	MOD.RETURN	RP-FB-TB	GPFF-TB	10A FF	W/ FILTER FRAME
CD	CEILING DIFF.	SERIES "L"	SERIES "C"	CVD	W/ OBD & DEFLECTION AS NOTED
RG/EG	RET. GRILLE	HD-RH	QWDS	98	W/ OBD & MULLIONS @ 12" O.C.

NOTES:
THESE ARE STANDARD SYMBOLS AND MAY NOT ALWAYS APPEAR ON THE DRAWINGS, HOWEVER, WHERE THE SYMBOL DOES APPEAR, THE ITEM SHALL BE PROVIDED. ALL DEVICES TO BE ALUMINUM UNLESS LOCATED IN A FIRE-RATED ASSEMBLY WHERE DEVICES SHALL BE STEEL. FLEX RUNOUTS SHALL BE FULL-SIZE OF DIFFUSER NECK UNLESS OTHERWISE NOTED. ALL LAY-IN GRILLES, DIFFUSERS, ETC. SHALL BE PROVIDED WITH FOUR - 12 GAUGE SUPPORT WIRES TIED INDEPENDENTLY TO THE STRUCTURE AND CEILING CLIPS PER ASTM E-580-91 REQUIREMENTS.

NOTE 1-CUSTOM COLOR LOUVERS SHALL HAVE KYNAR 500 (70% KYNAR) FINISH. LOCATE AS DIRECTED BY ARCHITECT.

NOTE 2-METAL-AIRE SERIES 5000 DIFFUSER SHALL BE PROVIDED WITH WELDED BOTTOM CONE. RIVETED CONES ARE NOT ACCEPTABLE.

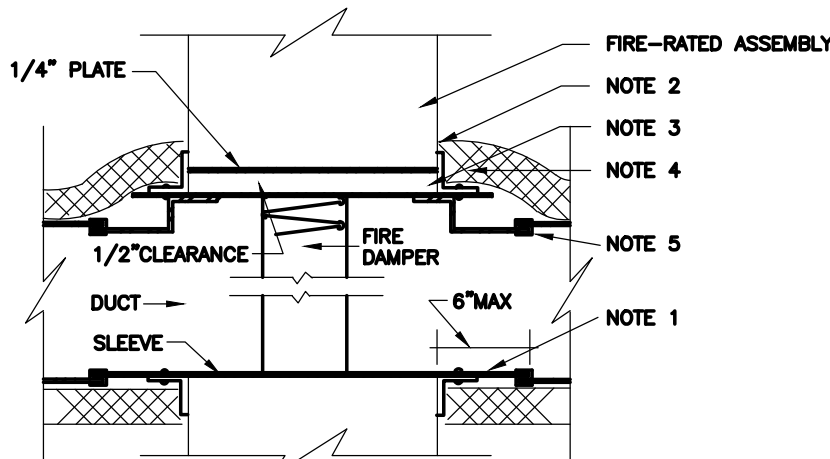
NOTE 3-ALL DIFFUSERS SHALL BE PROVIDED WITH A 4-WAY BLOW PATTERN UNLESS OTHERWISE INDICATED.

NOTE 4-CONTRACTOR SHALL INCLUDE AN ADDITIONAL QUANTITY 6-9x9 MSL DIFFUSERS, 6-12x12 MSL DIFFUSERS AND 6-20x20 MR RETURNS WITH SOUND TRAPS IN THIS BID WITH INSTALLATION LOCATION AS DIRECTED BY ENGINEER/ARCHITECT. THESE ADDITIONAL SUPPLY DIFFUSERS SHALL ALSO INCLUDE 6" OF FLEX DUCT FOR COMPLETE INSTALLATION OF EACH DEVICE.

FLEXIBLE SUPPLY RUNOUT SCHEDULE

INSIDE DIAMETER	AIR DEVICE CFM RANGE	REMARKS
6" DIA.	UP TO 125 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
9" DIA.	UP TO 275 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
12" DIA.	UP TO 500 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
15" DIA.	UP TO 700 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
18" DIA.	UP TO 1200 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH

NOTE: FLEXIBLE DUCT SHALL BE ACOUSTIC TYPE AS MANUFACTURED BY FLEXMASTER TYPE 1M, CLEVAFLEX, THERMOFLEX MKE-R6.0, OR PRIOR APPROVED EQUAL. SEE SPECIFICATIONS. FLEX LENGTHS SHALL BE 4' MINIMUM AND 6' MAXIMUM. PROVIDED INSULATED ROUND SNAPLOCK PIPE TO EXTEND TO ACCEPTABLE FLEX LENGTHS AS REQUIRED.



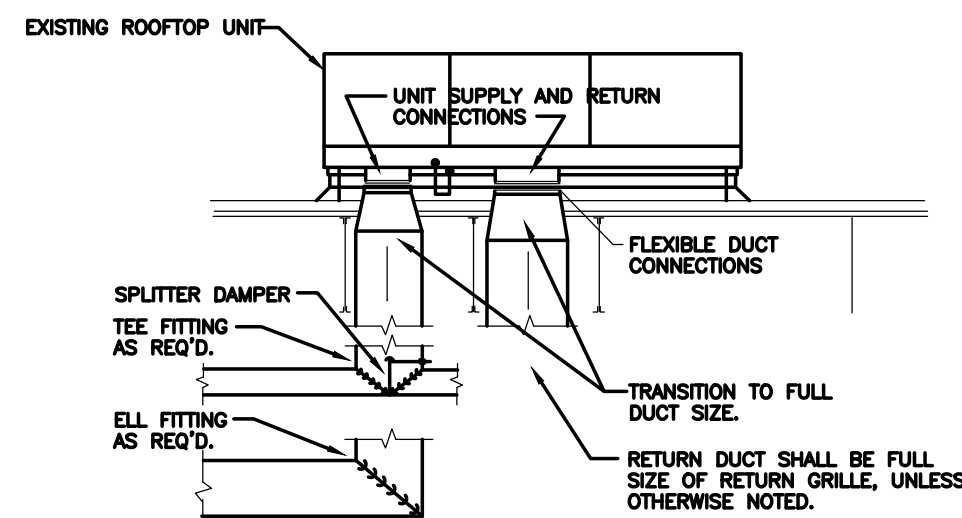
NOTE-
REFER TO MANUFACTURER'S
RECOMMENDATIONS/REQUIREMENTS

NOTES

- 2"x 2"x 1/2" 12 GA. RETAINING ANGLES ON ALL SIDES FASTENED TO DUCT WITH 1/4" BOLTS @ 6" O.C. MAX. OR WELDED.
- SEAL VAPOR TIGHT WITH FIRE CAULK.
- WALL OPENING TO BE 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS. MINIMUM CLEARANCE OF 1/4" REQUIRED FOR ANY INSTALLATION.
- DUCT INSULATION TO ANGLE AND SEAL VAPOR TIGHT WITH MASTIC.
- 5" TYPE BREAK-AWAY CONNECTIONS ON ALL SIDES.

FIRE RATED ASSEMBLY DUCT PENETRATION

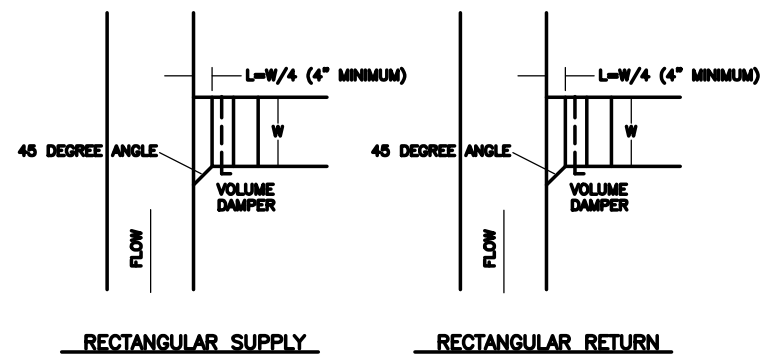
NO SCALE



NOTE:
REMOVE EXISTING DUCTBOARD DUCTWORK BACK TO EXISTING UNIT SUPPLY AND RETURN OPENINGS. PROVIDE NEW FLEX CONNECTIONS AT UNIT OUTLET AND INLET AND ROUTE AS SHOWN ON MECHANICAL PLANS.

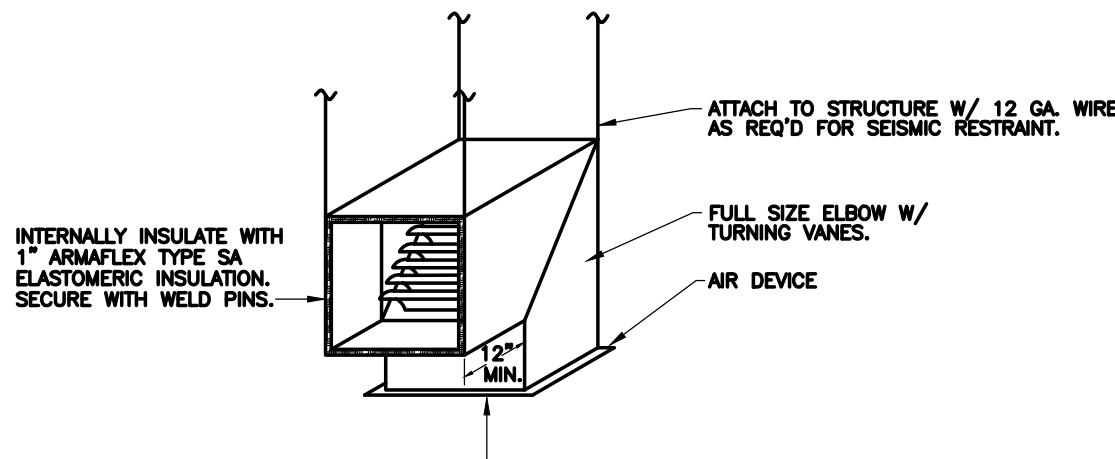
ROOFTOP UNIT DUCT REPLACEMENT INSTALLATION DETAIL

NO SCALE



DUCT BRANCH FITTING DETAIL

NO SCALE

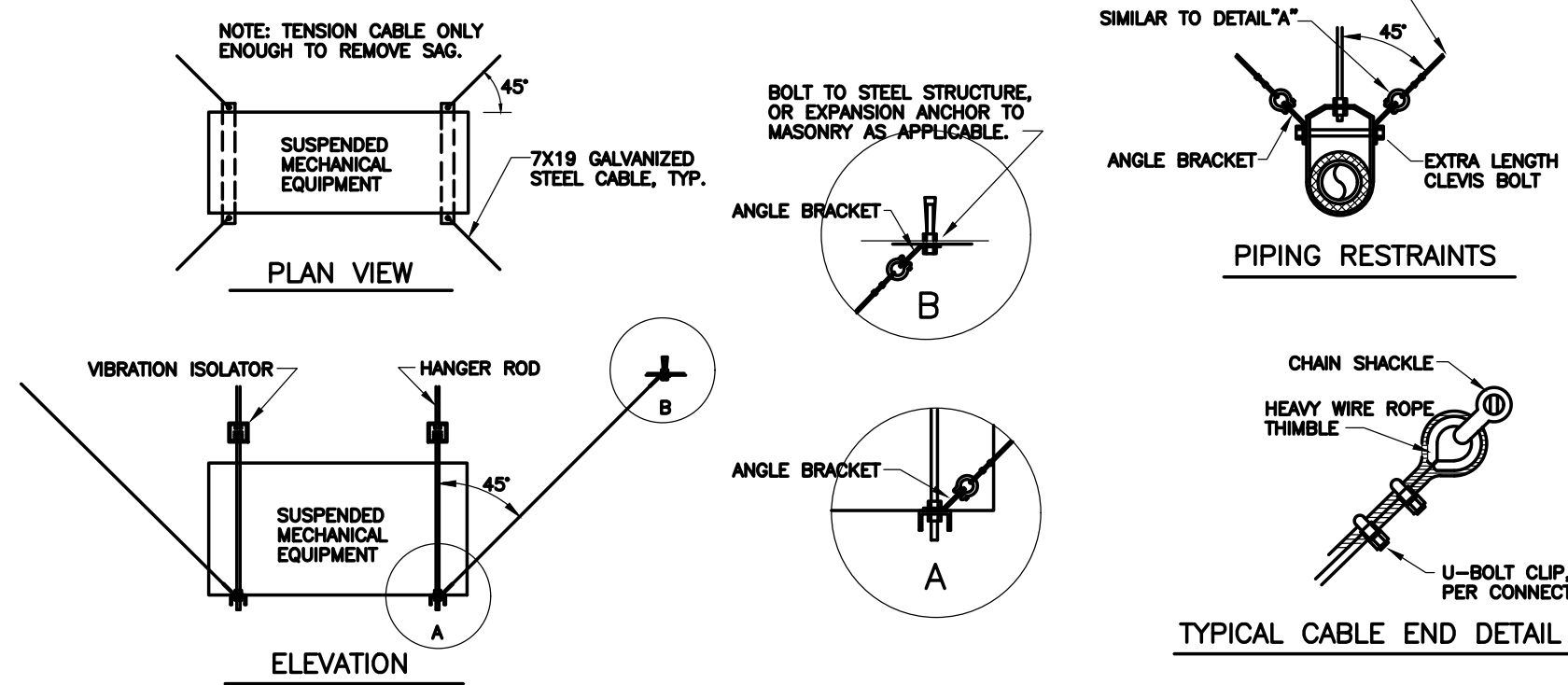


RETURN AIR SOUND TRAP DETAIL

NO SCALE

NOTES:

- SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL SUSPENDED MECHANICAL EQUIPMENT.
- SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL PIPING 1-1/4" AND LARGER IN MECHANICAL ROOMS AND ALL PIPING 2-1/2" AND LARGER ELSEWHERE.
- SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL RECTANGULAR DUCTWORK 6 SF CROSS-SECTIONAL AREA AND LARGER AND ALL ROUND DUCTS 24" DIAMETER AND LARGER.
- DUCT AND PIPE RESTRAINTS SHALL BE INSTALLED AT EACH HANGER AND AT EACH CHANGE OF DIRECTION. DUCT RESTRAINTS SHALL BE SIMILAR TO PIPE RESTRAINTS. SEE DETAIL.
- ALL LAY-IN GRILLES, DIFFUSERS, OR EQUIPMENT SUPPORTED AT THE LAY-IN CEILING SHALL BE PROVIDED WITH FOUR - 12 GAUGE SUPPORT WIRES TIED INDEPENDENTLY TO THE STRUCTURE AND CEILING CLIPS PER ASTM E-580-91 REQUIREMENTS.
- COMPLY WITH ALL PROVISIONS OF SEISMIC SPECIFICATIONS.
- ALL BOLTED SEISMIC CONNECTION SHALL HAVE "LOCK" STYLE NUTS.



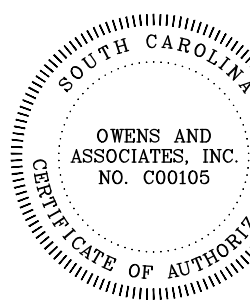
MECHANICAL SYSTEM SEISMIC RESTRAINTS

NO SCALE

○ MECHANICAL SCHEDULES AND DETAILS
NO SCALE

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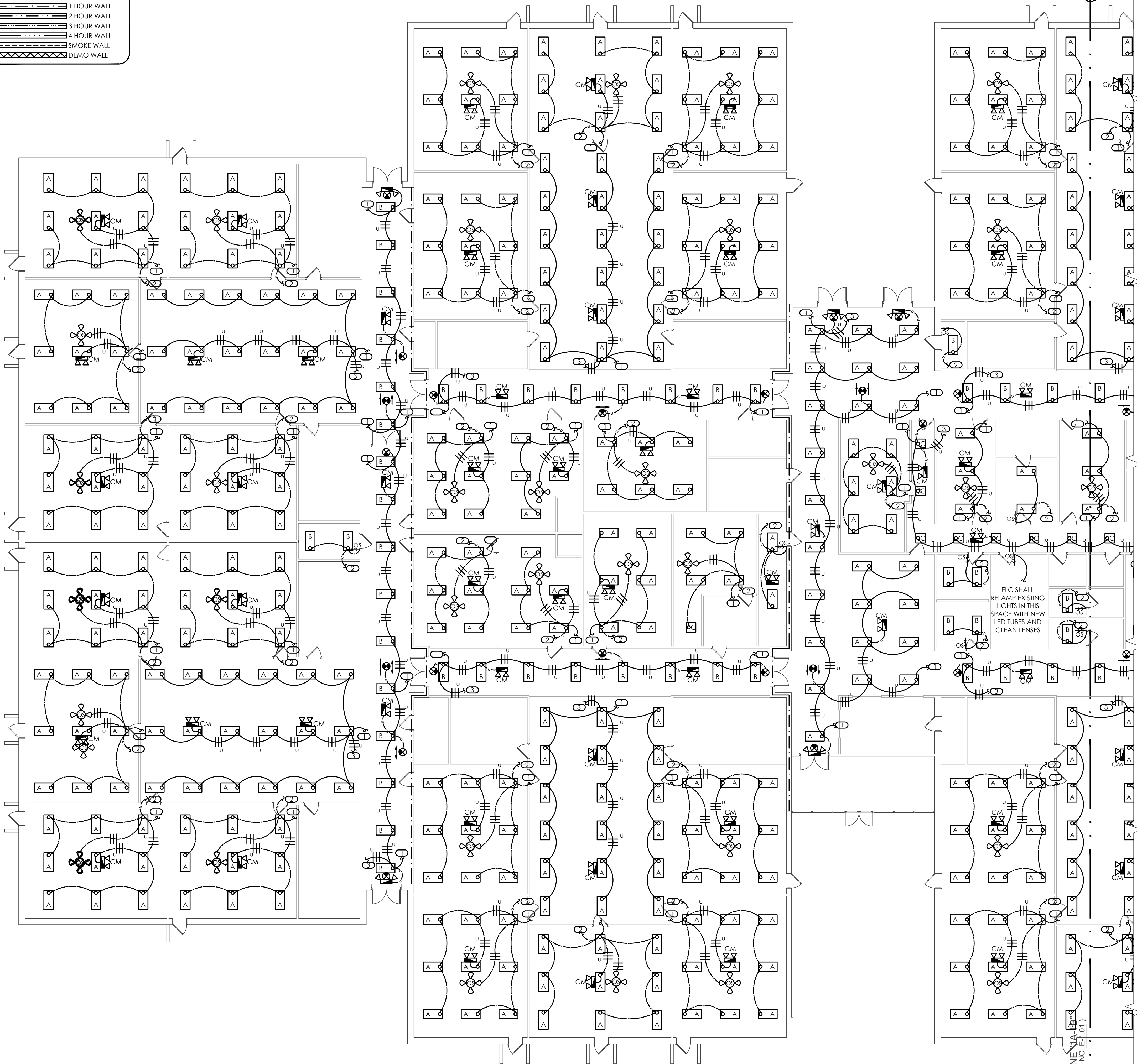
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FIREWALL INDICATIONS

- 1 HOUR WALL
- 2 HOUR WALL
- 3 HOUR WALL
- 4 HOUR WALL
- SMOKE WALL
- DEMO WALL



1 LIGHTING PLAN - AREA A
SCALE: 3/32" = 1'-0"

ELECTRICAL SYMBOL SCHEDULE

- BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS, TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND, TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, EXPOSED, TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT HOMERUN, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO, GROUND WIRE IS NOT INDICATED, CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS, CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
- JUNCTION BOX WITH COVER.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR WHICH IS UNSWITCHED BY LOCAL SWITCHES, OCCUPANCY SENSORS, OR LIGHTING CONTROL PANELS.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR SWITCHED BY LIGHTING CONTROL SYSTEM.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR SWITCHED BY OCCUPANCY SENSOR.
- 2' X 4' LIGHT FIXTURE.
- 2' X 2' LIGHT FIXTURE.
- EMERGENCY LIGHTING WALL PACK SEE LIGHT FIXTURE SCHEDULE.
- EMERGENCY LIGHTING / EXIT LIGHT COMBO WALL PACK. SEE LIGHT FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN WITH ARROWS AND FACES AS INDICATED SEE LIGHT FIXTURE SCHEDULE.
- SURFACE WALL MOUNTED EXIT SIGN WITH ARROWS AND FACES AS INDICATED SEE LIGHT FIXTURE SCHEDULE.
- SINGLE POLE SWITCH WITH MULTI TECH OCCUPANCY SENSOR WITH METAL PLATE, MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS.
- OCCUPANCY SENSOR POWER PACK. SEE OCCUPANCY SENSOR POWER PACK DETAIL AND SPECIFICATIONS.
- CEILING MOUNTED, DUAL TECHNOLOGY, OCCUPANCY SENSOR. SEE SPECIFICATIONS.

LIGHTING KEYED NOTES:

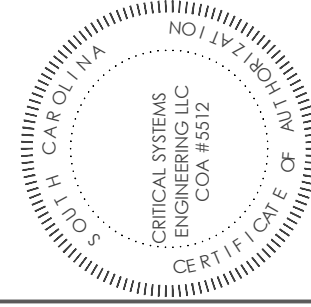
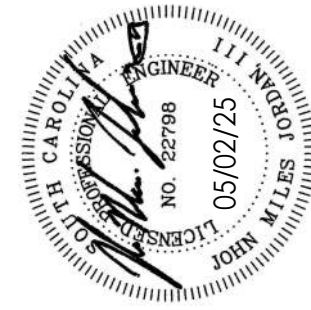
- ELC SHALL F&I 1/2" EMT - 2#12 & #12 GND TO EXISTING LIGHT SWITCH LOCATION. CONCEALED SWITCH BOXES AND RACEWAYS MAY BE REUSED BUT WIRING AND SWITCHES SHALL BE REPLACED. IN ROOMS WITH 3 OR 4 WAY SWITCHING, ELC SHALL ADD SWITCH LEGS AS NECESSARY TO MAINTAIN EXISTING SWITCHING.
- ELC SHALL F&I 1/2" EMT - 2#12 & #12 GND TO INCOMING UNSWITCHED HOT & NEUTRAL CONDUCTORS OF THE EXISTING LIGHTING CIRCUIT FOR THIS ROOM.
- ELC SHALL IDENTIFY THE CORRIDOR / ASSEMBLY SPACE LIGHTING HOMERUNS AND SPLICE AND EXTEND THEM THROUGH NEW LIGHTING CONTACTORS. NEW CONTACTORS SHALL BE INSTALLED ADJACENT TO THE PANELS SUPPLYING CORRIDOR LIGHTING CIRCUITS. SEE INTERIOR LIGHTING CONTACTOR DETAIL. UNSWITCHED HOT CONDUCTOR IS REQUIRED FOR EMERGENCY BATTERY CHARGING.

ELECTRICAL SCOPE OF WORK SHALL INCLUDE:

- REMOVE ALL EXISTING FIXTURES IN AREAS NOTED TO RECEIVE NEW FIXTURES, OFFER TO OWNER AND PROPERLY DISPOSE OF AT HIS DIRECTION.
- F&I 4" CADDY "J" HOOKS" ABOVE THE LEVEL OF ALL NEW CEILINGS AND BUNDLE ALL EXISTING LOOSE LOW VOLTAGE CABLE IN THESE HOOKS. HOOKS SHALL BE INSTALLED ON ALL WALLS AS NEEDED AND SPACED 60" ON CENTER.
- INSTALL NEW FIXTURES WHERE SHOWN.
- INSTALL SEISMIC SUPPORT WIRES FROM STRUCTURE ABOVE TO NEW FIXTURES.
- F&I NEW RACEWAYS AND CONDUCTORS TO CONNECT NEW FIXTURES TO EXISTING HOMERUN CIRCUITS.
- REPLACE LIGHT SWITCHES IN ALL AREAS WHICH ARE NOTED TO RECEIVE NEW FIXTURES. MATCH EXISTING SWITCH LOCATIONS AND FUNCTIONALITY.
- F&I NEW RACEWAYS AND CONDUCTORS TO CONNECT NEW FIXTURES TO NEW SWITCHES.
- F&I LIGHTING CONTACTORS CONTROLLED BY THE ENERGY MANAGEMENT SYSTEM TO THE CORRIDOR AND ASSEMBLY AREA LIGHTING HOMERUNS AT SUPPLYING PANEL.

CRITICAL SYSTEMS
ENGINEERING

845 Lowcountry Blvd, Suite H
Mount Pleasant, SC.
29464



NEWINGTON ELEMENTARY SCHOOL
Ceiling Renovations

10 KING CHARLES CIRCLE
SUMMERVILLE, SC

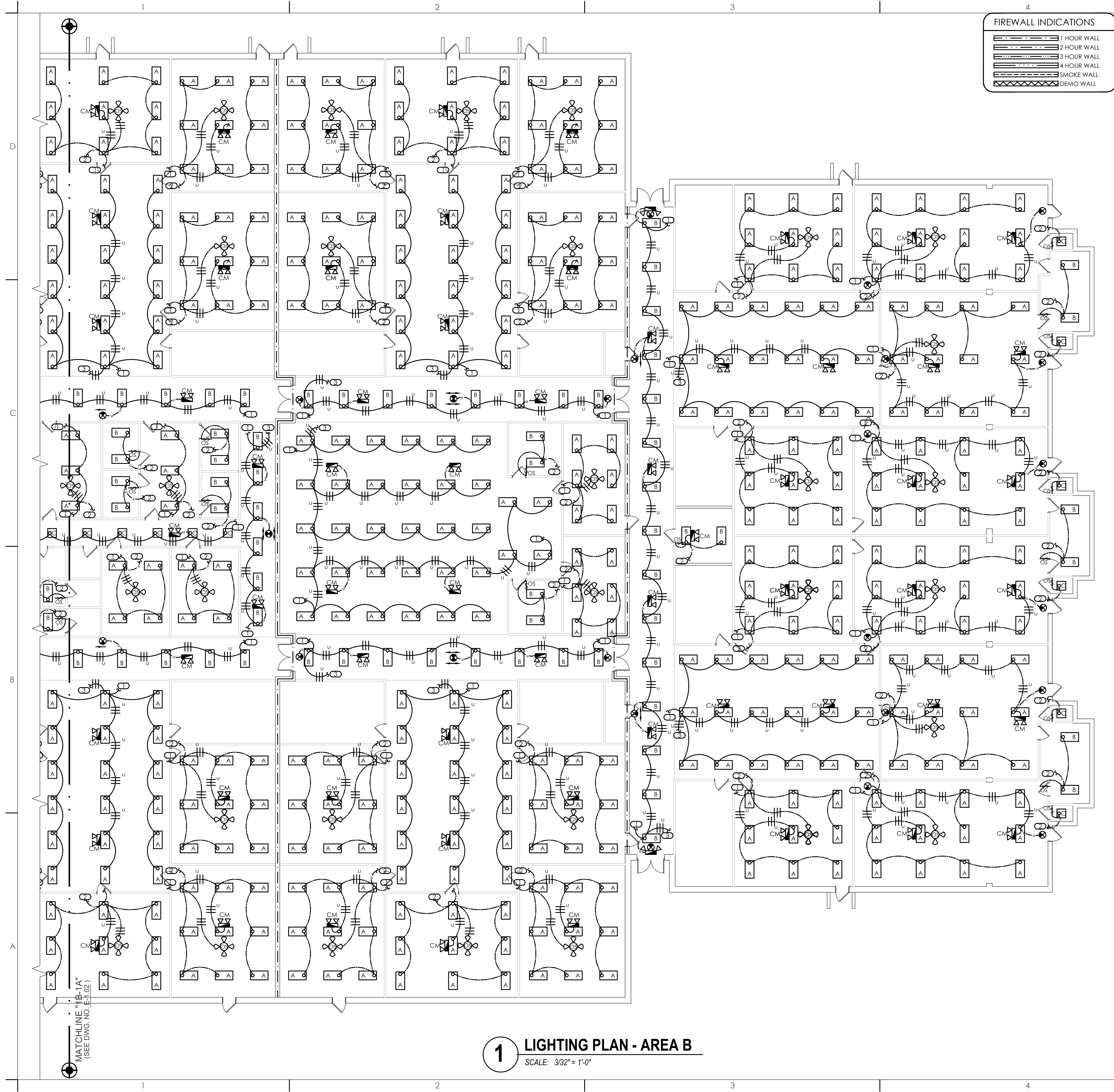
SHEET ISSUE:
DATE: NO: ISSUED FOR: BY:

PRINCIPAL IN CHARGE: JMJ
PROJECT ENGINEER: JMJ
DRAWN BY: JMJ

SHEET TITLE:
LIGHTING PLAN
AREA A

SHEET NO. PROJ NO.
E101 02553

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FIREWALL INDICATIONS	
	1 HOUR WALL
	2 HOUR WALL
	3 HOUR WALL
	4 HOUR WALL
	SMOKE WALL
	DEMO WALL

ELECTRICAL SYMBOL SCHEDULE

- BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS, TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND, TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT CONDUIT, EXPOSED, TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
- BRANCH CIRCUIT HOMERUN: NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
- JUNCTION BOX WITH COVER.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR WHICH IS UNSWITCHED BY LOCAL SWITCHES, OCCUPANCY SENSORS, OR LIGHTING CONTROL PANELS.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR SWITCHED BY LIGHTING CONTROL SYSTEM.
- LIGHTING BRANCH CIRCUIT WITH NEUTRAL CONDUCTOR, GROUND CONDUCTOR, AND HOT CONDUCTOR SWITCHED BY OCCUPANCY SENSOR.
- 2' X 4' LIGHT FIXTURE.
- 2' X 2' LIGHT FIXTURE.
- EMERGENCY LIGHTING WALL PACK SEE LIGHT FIXTURE SCHEDULE.
- EMERGENCY LIGHTING / EXIT LIGHT COMBO WALL PACK. SEE LIGHT FIXTURE SCHEDULE.
- CEILING MOUNTED EXIT SIGN WITH ARROWS AND FACES AS INDICATED SEE LIGHT FIXTURE SCHEDULE.
- SURFACE WALL MOUNTED EXIT SIGN WITH ARROWS AND FACES AS INDICATED SEE LIGHT FIXTURE SCHEDULE.
- SINGLE POLE SWITCH WITH MULTI TECH OCCUPANCY SENSOR WITH METAL PLATE, MOUNT 48" TO TOP OF BOX A.F.F. UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS.
- OCCUPANCY SENSOR POWER PACK. SEE OCCUPANCY SENSOR POWER PACK DETAIL AND SPECIFICATIONS.
- CEILING MOUNTED, DUAL TECHNOLOGY, OCCUPANCY SENSOR. SEE SPECIFICATIONS.

LIGHTING KEYED NOTES:

- ELC SHALL F&I 1/2" EMT - 2#12 & #12 GND TO EXISTING LIGHT SWITCH LOCATION. CONCEALED SWITCH BOXES AND RACEWAYS MAY BE REUSED BUT WIRING AND SWITCHES SHALL BE REPLACED. IN ROOMS WITH 3 OR 4 WAY SWITCHING, ELC SHALL ADD SWITCH LEGS AS NECESSARY TO MAINTAIN EXISTING SWITCHING.
- ELC SHALL F&I 1/2" EMT - 2#12 & #12 GND TO INCOMING UNSWITCHED HOT & NEUTRAL CONDUCTORS OF THE EXISTING LIGHTING CIRCUIT FOR THIS ROOM.
- ELC SHALL IDENTIFY THE CORRIDOR / ASSEMBLY SPACE LIGHTING HOMERUNS AND SPLICE AND EXTEND THEM THROUGH NEW LIGHTING CONTACTORS. NEW CONTACTORS SHALL BE INSTALLED ADJACENT TO THE PANELS SUPPLYING CORRIDOR LIGHTING CIRCUITS. SEE INTERIOR LIGHTING CONTACTOR DETAIL. UNSWITCHED HOT CONDUCTOR IS REQUIRED FOR EMERGENCY BATTERY CHARGING.

ELECTRICAL SCOPE OF WORK SHALL INCLUDE:

- REMOVE ALL EXISTING FIXTURES IN AREAS NOTED TO RECEIVE NEW FIXTURES, OFFER TO OWNER AND PROPERLY DISPOSE OF AT HIS DIRECTION.
- F&I 4" CADDY "J" HOOKS" ABOVE THE LEVEL OF ALL NEW CEILINGS AND BUNDLE ALL EXISTING LOOSE LOW VOLTAGE CABLE IN THESE HOOKS. HOOKS SHALL BE INSTALLED ON ALL WALLS AS NEEDED AND SPACED 60" ON CENTER.
- INSTALL NEW FIXTURES WHERE SHOWN.
- INSTALL SEISMIC SUPPORT WIRES FROM STRUCTURE ABOVE TO NEW FIXTURES.
- F&I NEW RACEWAYS AND CONDUCTORS TO CONNECT NEW FIXTURES TO EXISTING HOMERUN CIRCUITS.
- REPLACE LIGHT SWITCHES IN ALL AREAS WHICH ARE NOTED TO RECEIVE NEW FIXTURES. MATCH EXISTING SWITCH LOCATIONS AND FUNCTIONALITY.
- F&I NEW RACEWAYS AND CONDUCTORS TO CONNECT NEW FIXTURES TO NEW SWITCHES.
- F&I LIGHTING CONTACTORS CONTROLLED BY THE ENERGY MANAGEMENT SYSTEM TO THE CORRIDOR AND ASSEMBLY AREA LIGHTING HOMERUNS AT SUPPLYING PANEL.

1 LIGHTING PLAN - AREA B
SCALE: 3/32" = 1'-0"

CRITICAL SYSTEMS ENGINEERING
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29464

NEWINGTON ELEMENTARY SCHOOL
Ceiling Renovations

10 KING CHARLES CIRCLE
SUMMERVILLE, SC

SHEET TITLE:
LIGHTING PLAN
AREA B

SHEET NO.
E102

PRINCIPAL IN CHARGE: J.M.J.
PROJECT ENGINEER: J.M.J.
DRAWN BY: J.M.J.

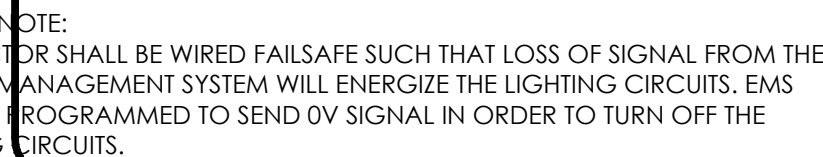
SHEET NO.
E102

SHEET NO.
E102

PROJ NO.
02553

FIXT.	TYPE	COLOR TEMP	INIT. LUMENS	VOLTS	MOUNTING	MANUFACTURER & NUMBER	COLOR RECD. INDEX	INPUT WATTS	NOTES	DESCRIPTION
A	LED	4000K	6500	120V OR 277V	RECESS	LITHONIA #STAKS 2X4 AL06 SWW7 UVOLT	>80	47	OWNER'S STANDARD FIXTURE - NO SUBSTITUTIONS ALLOWED WITH EXTERNALLY MOUNTED DRIVER	2X4 RECESSED TROFFER - SET TO 6000 LUMENS
B	LED	4000K	4500	120V OR 277V	RECESS	LITHONIA #STAKS 2X4 AL06 SWW7 UVOLT	>80	31	OWNER'S STANDARD FIXTURE - NO SUBSTITUTIONS ALLOWED WITH EXTERNALLY MOUNTED DRIVER	2X4 RECESSED TROFFER - SET TO 4000 LUMENS
C	LED	4000K	4500	120V OR 277V	RECESS	LITHONIA #STAKS 2X2 AL06 SWW7 UVOLT	>80	34	OWNER'S STANDARD FIXTURE - NO SUBSTITUTIONS ALLOWED WITH EXTERNALLY MOUNTED DRIVER	2X2 RECESSED TROFFER - 4000 LUMENS
D						NOT USED				
	LED	N/A	N/A	120V OR 277V	WALL OR CEILING	EMERGH-LITE #ELXN400-GB-AD COOPER #LPX7SD-GWH LITHONIA #LQGM-SW-3-G-EL-N-SD DUAL LITE # EVECUGWEI	N/A	N/A	SEE SYMBOL SCHEDULE FOR MOUNT W/ ARROWS, FACES, AND MOUNTING AS INDICATED. SELF DIAGNOSTIC	WHITE EXIT WITH GREEN LETTERS WITH BATTERY
	LED	N/A	1100	120V	WALL OR CEILING	LITHONIA #ELM6VL-UOLT-LTP-SDRT DUAL LITE # EVHC12IDW-06L	N/A	N/A	WALL MOUNTED UNITS SHALL BE MOUNTED @ CEILING BUT NO MORE THAN 10' AFF. SUBNOTE "CM" INDICATES FIXTURE TO BE CEILING MOUNTED SELF DIAGNOSTIC	HIGH OUTPUT WALL PACK EMERGENCY LIGHT (50" CENTERS) 1100 LUMEN OUTPUT
	LED	N/A	N/A	120V	WALL OR CEILING	EMERGH-LITE #ELXN400-G-2LED-R-AD COOPER #LPX2RSD-GWH LITHONIA #LHQM-LED-G-WQ-SD DUAL LITE # EVCUGWD4I	N/A	N/A	SEE SYMBOL SCHEDULE FOR MOUNT W/ ARROWS, FACES, AND MOUNTING AS INDICATED. SELF DIAGNOSTIC	WHITE EXIT / EMERG COMBO WITH GREEN LETTERS WITH BATTERY

1. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR AND MATERIALS NECESSARY TO INSTALL 4 ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHTING UNITS AT LOCATIONS TO BE DETERMINED ON SITE. UNUSED FIXTURES SHALL BE OFFERED TO OWNER FOR USE AS SPARES. REFER TO SPECIFICATIONS FOR MORE INFORMATION.



NO SCALE

WALL / FLOOR ASSEMBLY DESCRIPTION	APPROVED U.L. PENETRATION SYSTEMS
WOOD OR STEEL STUD WALLS 1HR, 2HR, 3HR, OR 4HR	XHEZ-W-L-1001
CONCRETE OR BLOCK WALLS OR FLOORS 1 HR	XHEZ-C-AJ-1175
CONCRETE OR BLOCK WALLS OR FLOORS 2HR, 3HR, OR 4 HR	XHEZ-C-AJ-1044

NOTES:

THE WALL OR FLOOR ASSEMBLY DESCRIPTION OF THE U.L. PENETRATION SYSTEM BEING INSTALLED MUST MATCH THE ACTUAL FIELD CONDITIONS.

THESE APPROVED SYSTEMS ARE NOT INTENDED TO ACCOUNT FOR ALL POSSIBLE FIELD CONDITIONS. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OTHER PROPOSED SYSTEMS NECESSARY TO ACCOMMODATE ACTUAL CONDITIONS.

CABLE TRAY FIRE WALL PENETRATIONS SHALL BE AS PER THE NOTES AND DETAILS ON THE TELECOMMUNICATION RISER DIAGRAM.

1. DUE TO THE NATURE OF WORK COVERED UNDER THESE PLANS AND SPECIFICATIONS, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
2. ALL CONDUIT PENETRATIONS OF FIRE RATED WALLS AND/OR CEILINGS SHALL BE FIRESTOPPED AS PER UL STANDARDS.
3. ALL CONDUIT PENETRATIONS OF EXTERIOR WALLS, FLOORS, OR ROOFS SHALL BE SEALED AND MADE WEATHERPROOF.
4. ALL CONDUIT RUNS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LENGTH AND LOCATION.
5. ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS, FOR ALL BID ALTERNATES AND ALL PHASING INFORMATION, PRIOR TO SUBMITTING HIS BID.
6. ALL WORK SHALL BE IN COMPLIANCE WITH THE CODES AND STANDARDS LISTED IN THE ARCHITECTURAL CODE ANALYSIS FOUND ELSEWHERE IN THESE CONTRACT DOCUMENTS.

1. ROUTE ALL CONDUITS CONCEALED WHERE POSSIBLE. WHEN NOT POSSIBLE TO ROUTE CIRCUITS CONCEALED, UTILIZE WIREMOLD SD4000. ALL DEVICES SHALL BE MOUNTED IN MANUFACTURED SURFACE BOXES UNLESS CONCEALED BOXES ARE INSTALLED.
2. IN AREAS TO RECEIVE NEW CEILINGS, ELC SHALL REMOVE ALL EXISTING LIGHT FIXTURES, EXIT SIGNS AND EMERGENCY LIGHTS. OFFER TO OWNER AND PROPERLY DISPOSE OF AT HIS DISCRETION.
3. IN AREAS TO RECEIVE NEW CEILINGS, ELC SHALL RELOCATE ALL EXISTING EQUIPMENT THAT IS MOUNTED IN THE EXISTING CEILING OR MOUNTED ON WALLS ABOVE THE LEVEL OF THE NEW CEILING INTO THE NEW CEILING AS CLOSE TO ITS ORIGINAL LOCATION AS POSSIBLE.
4. NEW EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE WIRED TO THE EXISTING UN-SWITCHED HOT CONDUCTOR OF THE LIGHTING CIRCUIT FOR SPACE IN WHICH THEY ARE LOCATED. ELC SHALL F&I NEW 1/2" EMT - #12 I & #12 GND FOR THIS PURPOSE.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL EXISTING CEILING MOUNTED ELECTRICAL AND LOW VOLTAGE DEVICES THAT ARE IN CEILINGS SCHEDULED FOR REPLACEMENT. AFTER NEW CEILING IS INSTALLED, REINSTALL EXISTING DEVICES IN NEW CEILING. ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT WIRES FOR REINSTALLED DEVICES, LIGHT FIXTURES, ETC. AS PER THESE PLANS AND SPECIFICATIONS.
6. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 4" CADDY "J" HOOKS" ABOVE THE LEVEL OF ALL NEW CEILINGS AND BUNDLE ALL EXISTING LOOSE LOW VOLTAGE CABLE IN THESE HOOKS. HOOKS SHALL BE FASTENED TO ALL WALLS AS NEEDED AND SPACED 60" ON CENTER.
7. ANY EXISTING ELECTRICAL EQUIPMENT NOT BEING REMOVED OR RELOCATED BUT ON THE SAME CIRCUIT AS ANY ELECTRICAL EQUIPMENT BEING REMOVED OR RELOCATED SHALL BE RECONNECTED TO ALLOW FOR NORMAL OPERATION UNLESS SHOWN OTHERWISE ON THE NEW WORK DRAWINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR THE RECONNECTION OF SAID DEVICES.
8. ELECTRICAL CONTRACTOR SHALL RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT, CIRCUITRY, OR CONDUIT THAT INTERFERES WITH DEMOLITION OR INSTALLATION WORK AND PROVIDE ALL NECESSARY MATERIALS AND LABOR NEEDED TO RETURN THE RELOCATED EQUIPMENT TO A SAFE AND OPERATING CONDITION THAT CONFORMS TO THE CURRENT EDITION OF THE N.E.C. AND ALL LOCAL REGULATIONS. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE AND ALL OTHER TRADES.
9. ANY DEVICE INTERFERING WITH DEMOLITION OR INSTALLATION, NOT BEING REMOVED OR RELOCATED, SHALL NOT BE MOVED WITHOUT WRITTEN CONSENT FROM THE OWNER'S REPRESENTATIVE.
10. ELECTRICAL CONTRACTOR SHALL INSTALL NEW TYPED WRITTEN PANEL SCHEDULES AND BREAKER LABELS TO REFLECT COMPLETED WORK IN ALL PANELS EFFECTED BY THE RENOVATION OR ADDITIONS.
11. ELECTRICAL CONTRACTOR MAY REUSE EXISTING CONCEALED BOXES AND CONDUITS WHEN THEY ARE IN THE SAME LOCATIONS AS NEW DEVICES SHOWN ON THE PLANS. CONDUCTORS, SWITCHES, OUTLETS AND OTHER ELECTRICAL DEVICES SHALL BE NEW.
12. IN SPACES WITH ACOUSTICAL TILE CEILINGS, ALL CONDUITS SHALL BE ROUTED CONCEALED ABOVE CEILING. IN SPACES WITH EXPOSED CEILINGS, CONDUITS SHALL BE ROUTED EXPOSED IN AND PAINTED TO MATCH ADJACENT SURFACES.
13. WHERE CIRCUITS ARE NOTED OR REQUIRED TO SPLICED AND OR EXTENDED, CONTRACTOR SHALL MATCH EXISTING WIRE SIZES.



WALL OR CEILING MOUNTED OCCUPANCY SENSOR. SEE FLOOR PLAN FOR TYPE

BLUE
BLACK
RED
GRAY

For auxiliary contacts.

POWER PACK COORDINATE MODEL WITH LINE VOLTAGE

LOW VOLTAGE 4" X 4" BOX

HIGH VOLTAGE 4" X 4" BOX

BLK/ORN
BLUE
WHITE
BLUE

un-switched hot
neutral

TO WALL SWITCHES

TO LIGHT FIXTURES

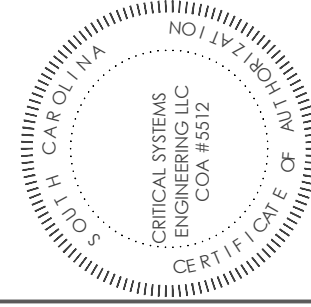
UN-SWITCHED HOT FOR EMERGENCY LIGHTING UNITS & PITS

LOCATE JUNCTION BOXES ON WALL DIRECTLY ABOVE SWITCHES AND ABOVE LEVEL OF LAY IN CEILING. LABEL BOX "OCCUPANCY SENSOR POWER PACK"

LIGHTING CIRCUIT AS IT ENTERS THE ROOM WITH UN-SWITCHED HOT

GFI	GROUND FAULT INTERRUPTER.
HG	HOSPITAL GRADE.
IG	ISOLATED GROUND.
WG	WIRE GUARD
WP	WEATHER PROOF.
EC	EMPTY CONDUIT. PROVIDE 16 GAUGE STEEL OR NYLON PULLWIRE.
ELC	ELECTRICAL CONTRACTOR
CM	DEVICE MOUNTED FACING DOWNWARD IN CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
AC	DEVICE MOUNTED ABOVE CEILING. SUPPORT INDEPENDENTLY FROM STRUCTURE.
F	FLOOR MOUNTED OUTLET OR CONDUIT STUB UP. SEE DETAILS ON KITCHEN PLAN
EMS	ENERGY MANAGEMENT SYSTEM CONNECTION. COORDINATE REQUIREMENTS WITH CONTROLS CONTRACTOR.
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
OC	MOUNT OVER COUNTER. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND CASEWORK DRAWINGS.
SPD	SURGE PROTECTED DEVICE. FORMALLY KNOWN AS "TVSS"
F & I	FURNISH AND INSTALL
ETR	EXISTING TO REMAIN
MC	METAL CLAD CABLE
RMC	RIGID METAL CONDUIT
FMC	FLEXIBLE METAL CONDUIT
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
PVC	RIGID POLYVINYL CHLORIDE CONDUIT
EMT	ELECTRICAL METALLIC TUBING

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Ceiling Renovations

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SUNNYSIDE, CO

SHEET ISSUE:
DATE : NO : ISSUED FOR : BY :

PRINCIPAL IN CHARGE: JM.
PROJECT ENGINEER: JM.
DRAWN BY: JM.

SHEET TITLE:
ELECTRICAL NOTES,
SCHEDULES & DETAILS

SHEET NO. **5100** PROJ NO. **02553**

E103