

LORIS ELEMENTARY SCHOOL MAU REPLACEMENT

901 SC-9 BUSINESS, LORIS, SC 29569

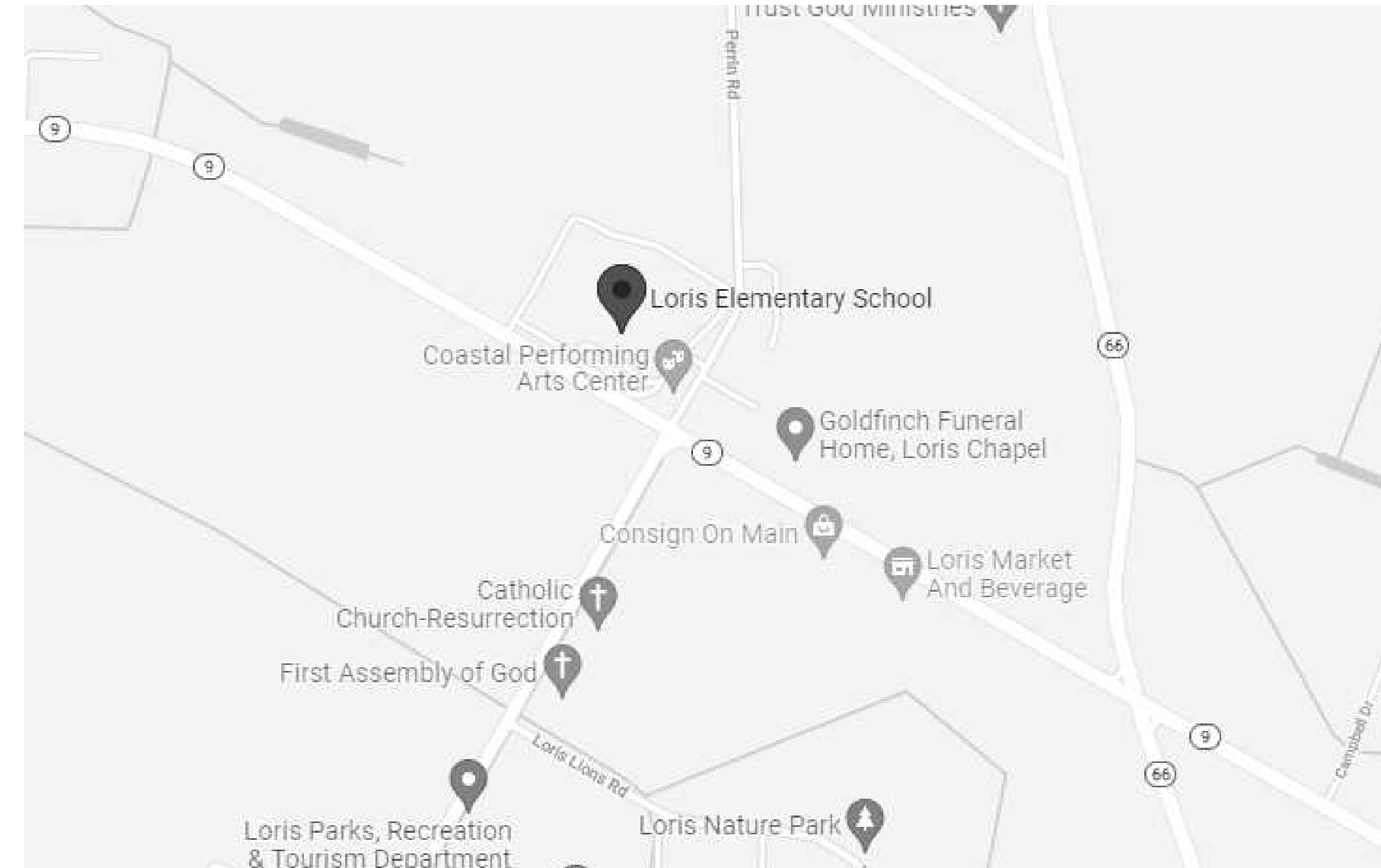


Whole Building Systems LLC
P.O. Box 1845
Mt. Pleasant, South Carolina
29465
PH: (843) 637-3358
Wholebuildingystems.com

DRAWING INDEX

- G001 - TITLE PAGE
- G002 - OSF FORM F3
- G003 - SITE SAFETY PLAN DURING CONSTRUCTION
- AD100 - ARCHITECTURAL FIRST FLOOR OVERALL DEMO RCP
- AD101 - ARCHITECTURAL PARTIAL DEMO RCP
- A100 - ARCHITECTURAL FIRST FLOOR RCP
- A101 - ARCHITECTURAL PARTIAL RCP
- A301 - ARCHITECTURAL SECTION DETAILS
- S001 - STRUCTURAL GENERAL NOTES
- S100 - STRUCTURAL FIRST FLOOR OVERALL PLAN
- S101 - STRUCTURAL PARTIAL WALL PENETRATIONS FRAMING PLANS
- S210 - STRUCTURAL TYPICAL MASONRY SECTIONS AND DETAILS
- S301 - STRUCTURAL SECTION DETAILS
- M001 - HVAC LEGEND, NOTES, AND ABBREVIATIONS
- MD101 - HVAC DEMOLITION PLAN - AREA A
- MD102 - HVAC DEMOLITION PLAN - AREA D
- MD103 - HVAC DEMOLITION PLAN - AREA E
- M101 - HVAC NEW WORK PLAN - AREA A
- M102 - HVAC NEW WORK PLAN - AREA B
- M103 - HVAC NEW WORK PLAN - AREA D
- M104 - HVAC NEW WORK PLAN - AREA E
- M200 - HVAC ELEVATIONS
- M500 - HVAC DETAILS
- M800 - HVAC SCHEDULES (DOAS)
- E001 - ELECTRICAL LEGEND, NOTES AND ABBREVIATIONS
- ED101 - ELECTRICAL POWER PLAN DEMOLITION
- E101 - ELECTRICAL POWER PLAN NEW WORK
- E600 - EQUIPMENT ELECTRICAL SCHEDULE

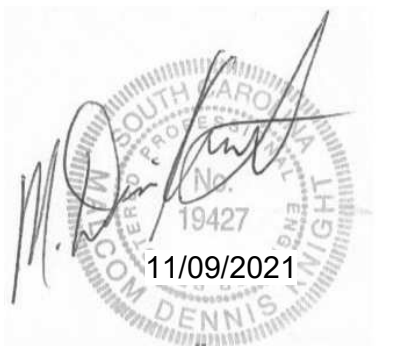
LOCATION MAP



NOTES

GENERAL NOTES (APPLICABLE TO ALL SHEETS)

- A. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS.
- B. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO PROCURING ANY EQUIPMENT OR MATERIALS, AND PRIOR TO FABRICATING ANY WORK.



LORIS ELEMENTARY
SCHOOL MAU
REPLACEMENT
901 SC-9 BUSINESS, LORIS, SC 29569

PROJECT TEAM

OWNER

HORRY COUNTY SCHOOL DISTRICT
OWNER'S REPRESENTATIVE: MR. JOE BURCH

ENGINEER

WHOLE BUILDING SYSTEMS, LLC
P.O. BOX 1845
MT. PLEASANT, SC 29465

P.O. BOX 1845
MT. PLEASANT, SC 29465

CONTACT: DENNIS KNIGHT
PHONE: 843-437-3847
EMAIL: DKNIGHT@WHOLEBUILDINGSYSTEMS.COM

ARCHITECT

THOMAS & DENZINGER ARCHITECTS

CONTACT: BRYAN BOLIN, AIA
PHONE: 843-723-6651
EMAIL: bbolin@thomasanddenzinger.com

STRUCTURE

ADC ENGINEERING

CONTACT: CHRIS GILGER, P.E.
PHONE: 843-735-5178
EMAIL: chrisg@adcengineering.com

CODES AND STANDARDS

APPLICABLE BUILDING CODES AND STANDARDS

- THE FOLLOWING CODES AND STANDARDS APPLY TO THE WORK OF THIS PROJECT:
- A. ALL CURRENTLY ADOPTED BUILDING CODES AND STATUTES ADOPTED BY THE STATE OF SOUTH CAROLINA INCLUDING, BUT NOT LIMITED TO:
 1. THE SOUTH CAROLINA BUILDING CODE, 2018 EDITION WITH SC MODIFICATIONS,
 2. THE SOUTH CAROLINA MECHANICAL CODE, 2018 EDITION,
 3. THE SOUTH CAROLINA FIRE CODE, 2018 EDITION WITH SC MODIFICATIONS,
 4. THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 EDITION,
 5. THE NATIONAL ELECTRICAL CODE (NFPA-70), 2017 EDITION

SEISMIC AND WIND DESIGN CRITERIA

- WIND RESTRAINT LOADING:
1. ULTIMATE WIND SPEED (3 SEC GUST), Vult: 157 MPH
 2. NOMINAL WIND SPEED, Vasd: 121.6 MPH
 3. BUILDING CLASSIFICATION (RISK) CATEGORY: III
 4. IMPORTANCE FACTOR: 1.15
 5. SURFACE ROUGHNESS: B
 6. EXPOSURE CATEGORY: B
 7. MINIMUM 10 LB/SQ FT MULTIPLIED BY AREA OF THE MECHANICAL COMPONENT PROJECTED ON A VERTICAL PLANE THAT IS NORMAL TO THE WIND DIRECTION, AND 45 DEGREES EITHER SIDE OF NORMAL.

- SEISMIC RESTRAINT LOADING:
1. BUILDING CLASSIFICATION (RISK) CATEGORY: III
 2. SITE CLASSIFICATION: D
 3. Ss = 1.229
 4. S1 = 0.396
 5. SDS = 0.826
 6. SD1 = 0.425
 7. SEISMIC DESIGN CATEGORY: D (IBC 2015, TABLE 1613.3.5 (1) & (2).

SEE SEISMIC AND WIND LOAD SCHEDULE ON SHEET M001 FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT SEISMIC AND WIND LOAD REQUIREMENTS.

PROJ. NO. 2109001
DATE: 11/09/2021
DESIGNED BY: MDK
DRAWN BY: BRW
CHECKED BY: MDK

REVISIONS

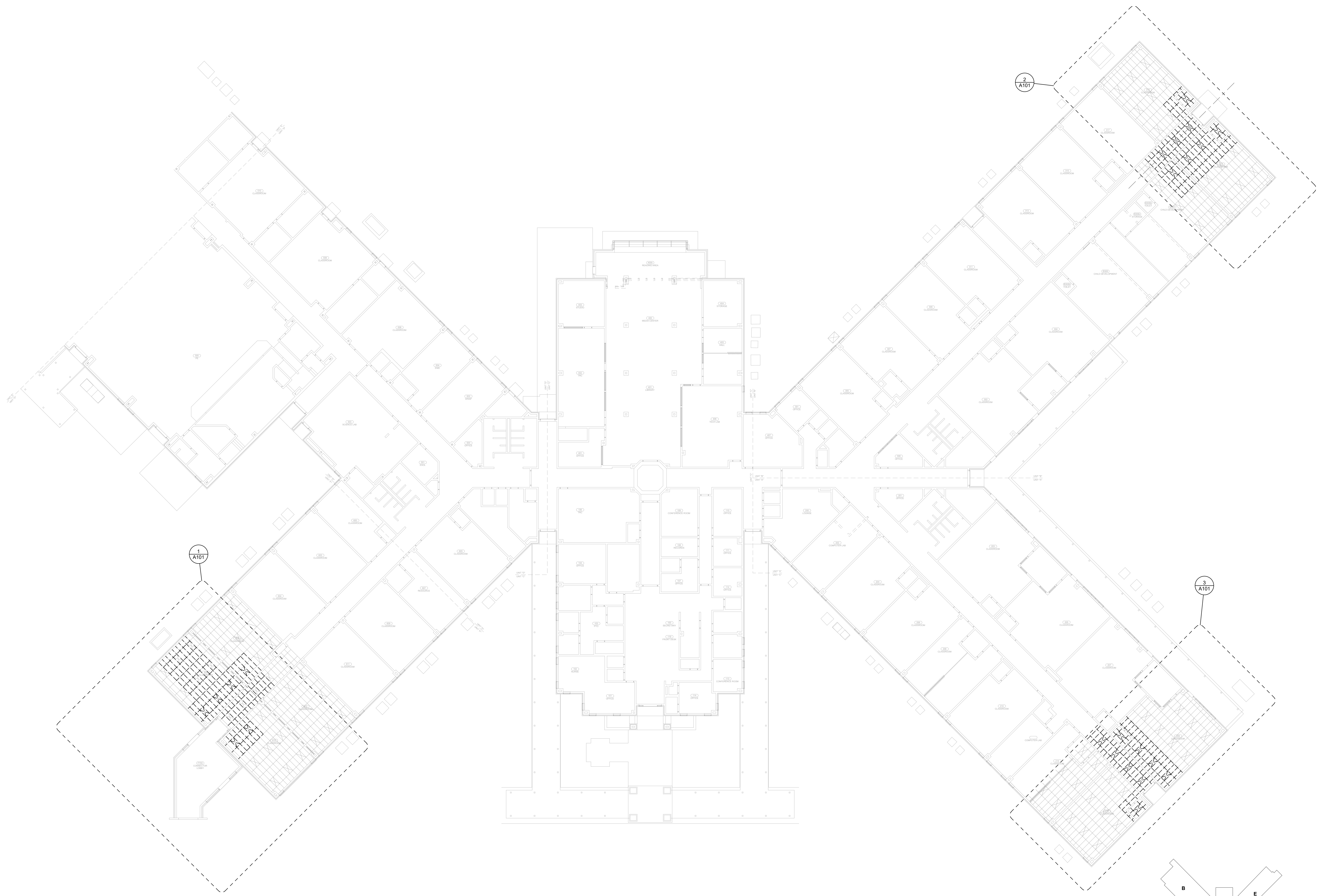
NO.	DATE	NOTES

TITLE PAGE

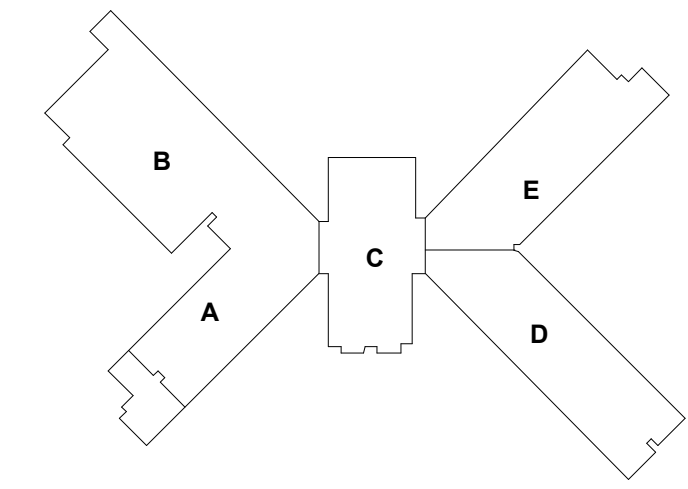
G001

A
B
C
D
E
F
G

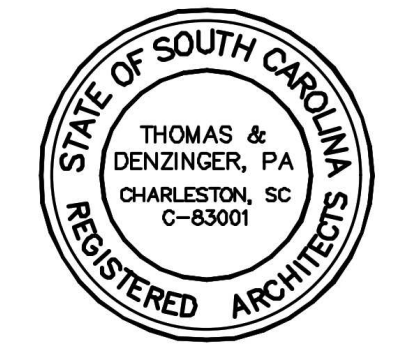
1 2 3 4 5 6 7 8



2 FIRST FLOOR OVERALL RCP
1/16" = 1'-0"



KEY PLAN



SEALS:

NOTES:

REVISION NO	DATE

CONSTRUCTION DOCUMENTS
LORIS ELEMENTARY SCHOOL
MAU REPLACEMENT
901 SC-9 BUSINESS, LORIS, SC

THOMAS & DENZINGER ARCHITECTS
138 ST PHILIP ST #200
CHARLESTON, SC 29403
843.906.6211
bbolin@thomasanddenzinger.com

FIRST FLOOR OVERALL DEMO RCP

SHEET NAME:

PROJECT NO.

DRAWN BY:

CHECKED BY:

DATE: 2/21/22

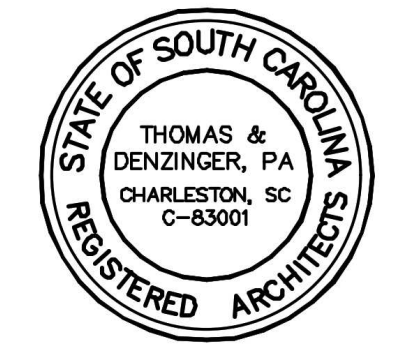
SCALE:

AD100

SHEET OF

1 2 3 4 5 6 7 8

PLAN SYMBOLS KEY	
SYMBOL	DESCRIPTION
	EXISTING ACT CEILING SYSTEM
	EXISTING ACT CEILING SYSTEM AND LIGHT
	REMOVE AND STORE EXISTING ACT CEILING SYSTEM FOR REINSTALLATION
	REMOVE AND STORE EXISTING LIGHT FOR REINSTALLATION
	REINSTALLED ACT CEILING SYSTEM
	REINSTALLED LIGHT



SEALS:

NOTES:

REVISION NO. DATE

CONSTRUCTION DOCUMENTS

LORIS ELEMENTARY SCHOOL
 MAU REPLACEMENT
 901 SC-9 BUSINESS, LORIS, SC

THOMAS & DENZINGER ARCHITECTS

138 ST PHILIP ST #200
 CHARLESTON, SC 29403
 843.906.6211
 bbolin@thomasanddenzinger.com

PARTIAL DEMO RCPs

SHEET NAME:

PROJECT NO.

DRAWN BY:

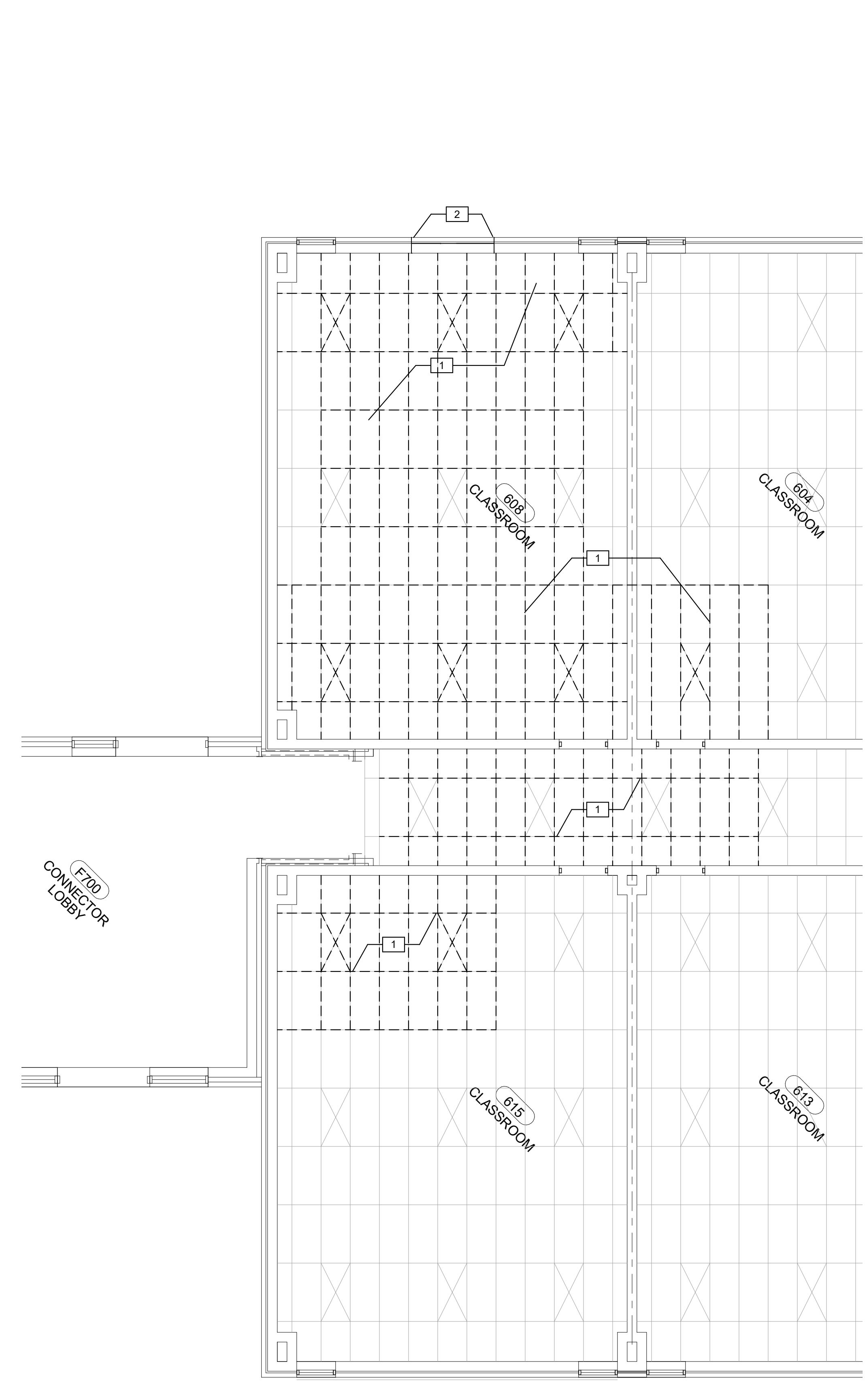
CHECKED BY:

DATE: 2/21/22

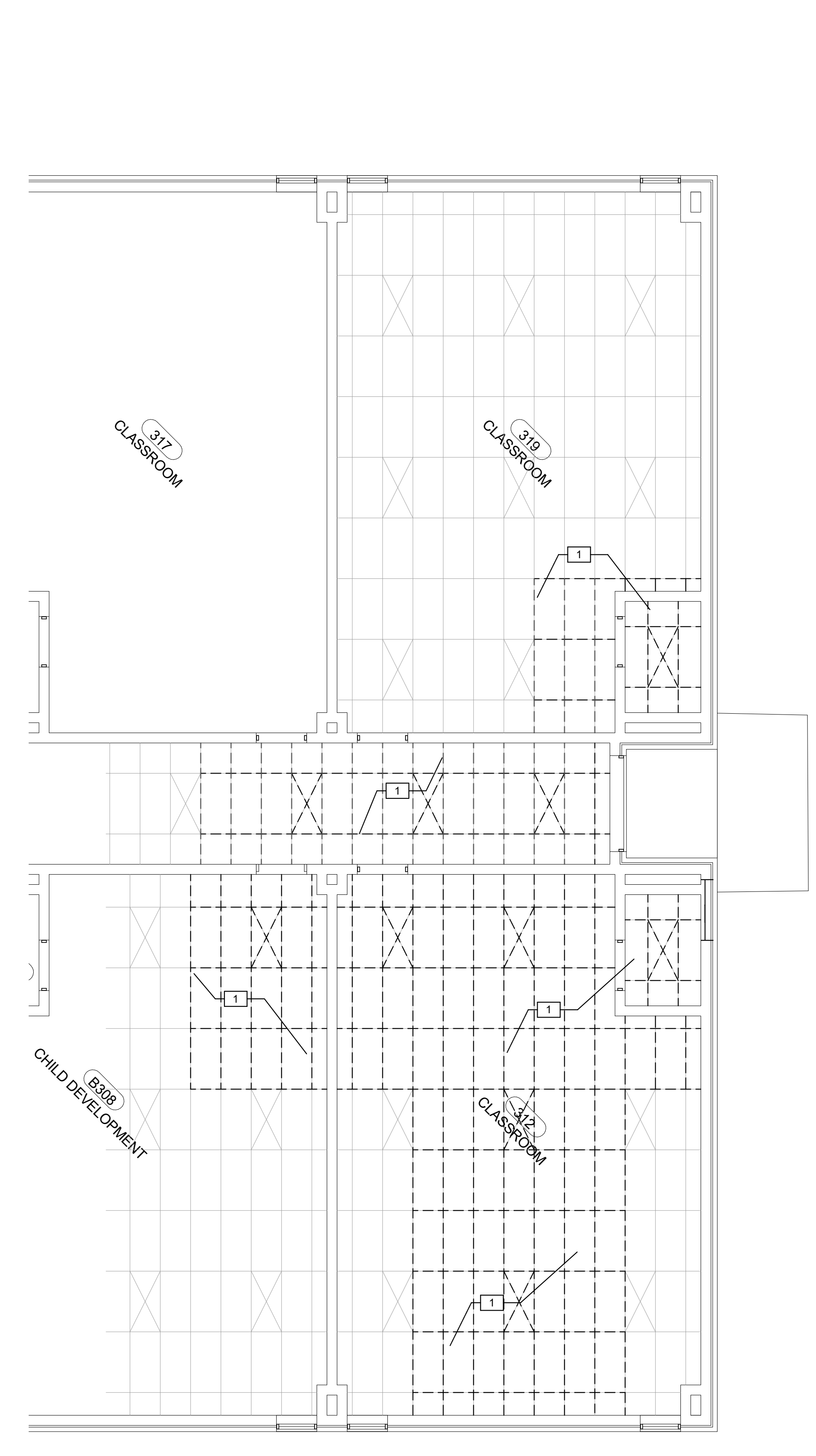
SCALE:

AD101

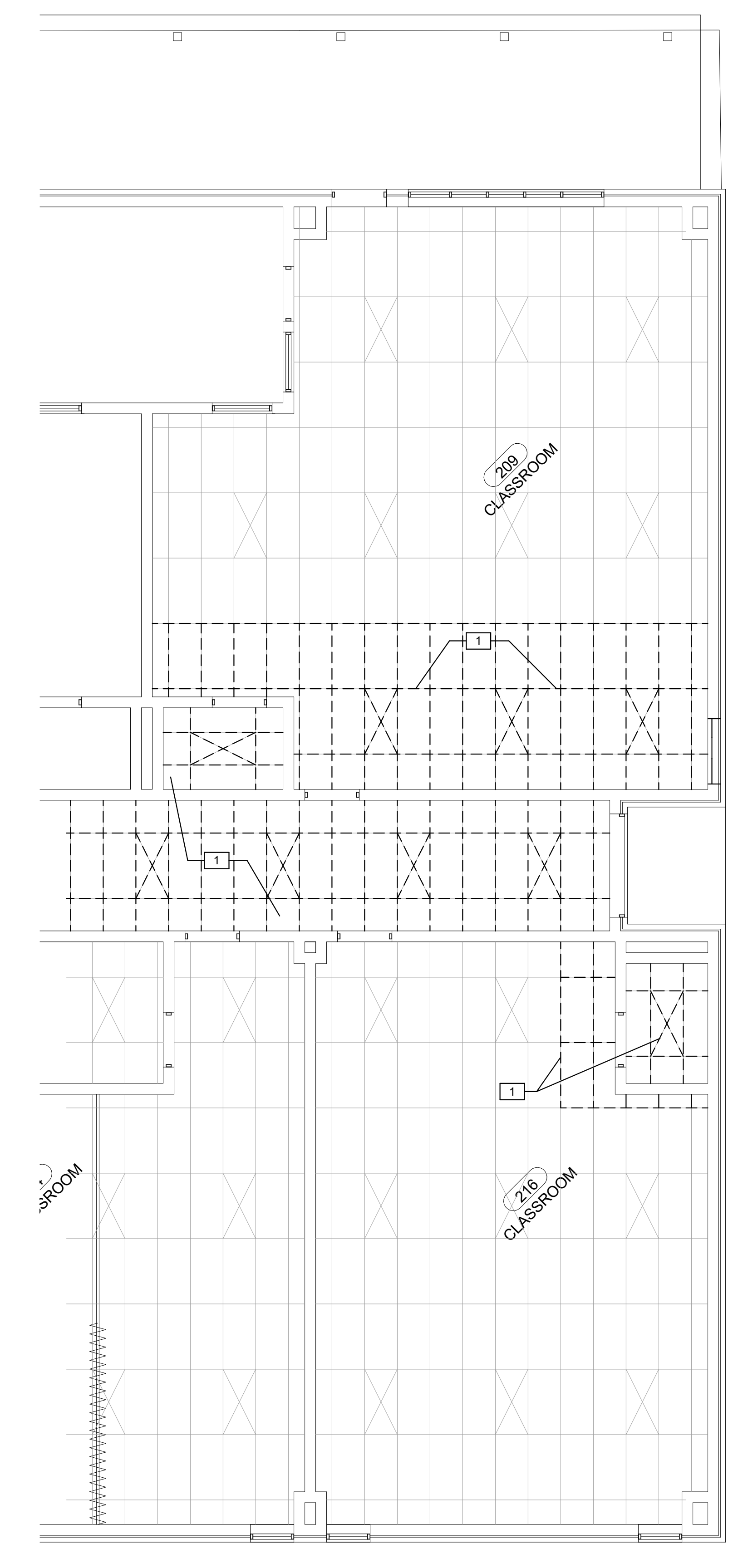
SHEET OF



1 PARTIAL FIRST FLOOR - AREA A
 3/16" = 1'-0"

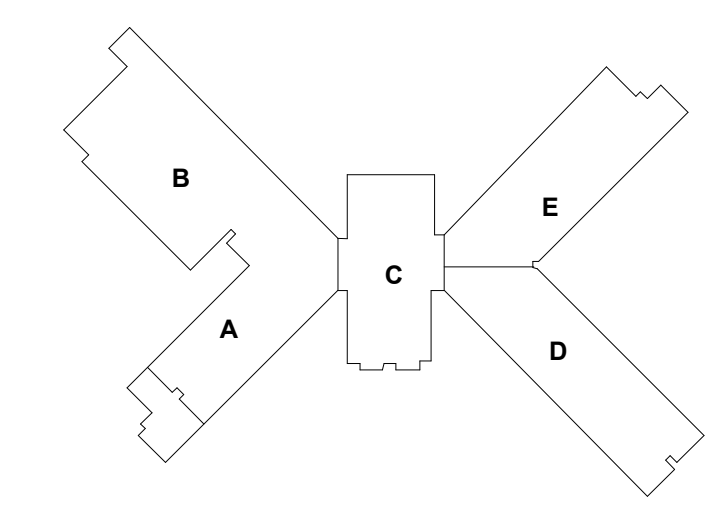


3 FIRST FLOOR DEMO RCP - AREA E
 3/16" = 1'-0"

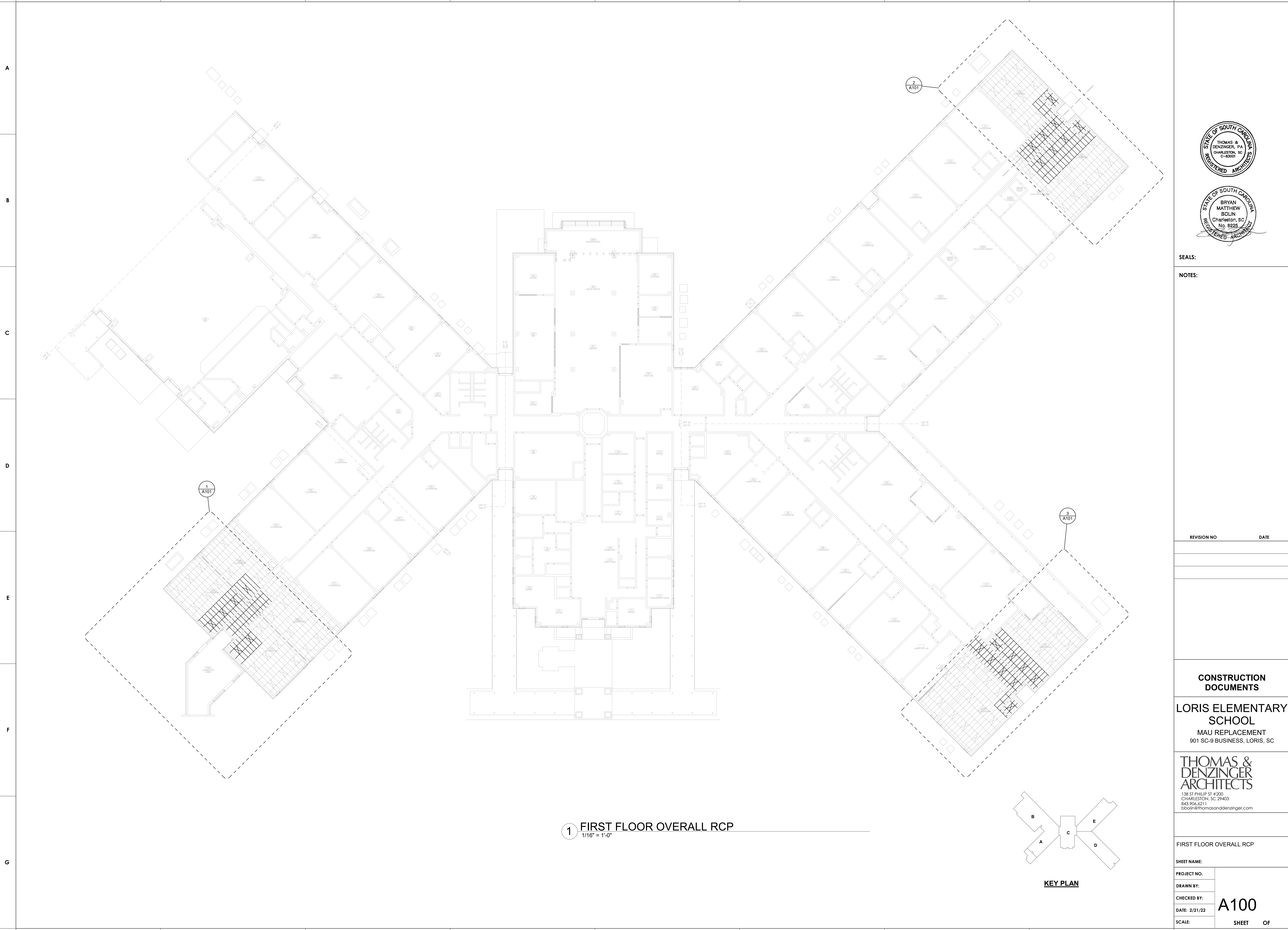


2 FIRST FLOOR DEMO RCP - AREA D
 3/16" = 1'-0"

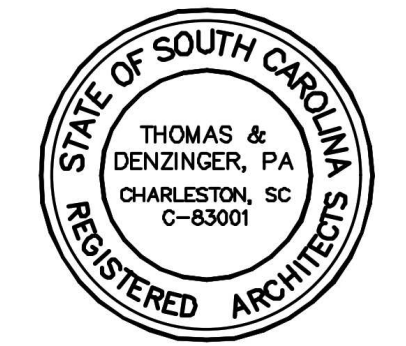
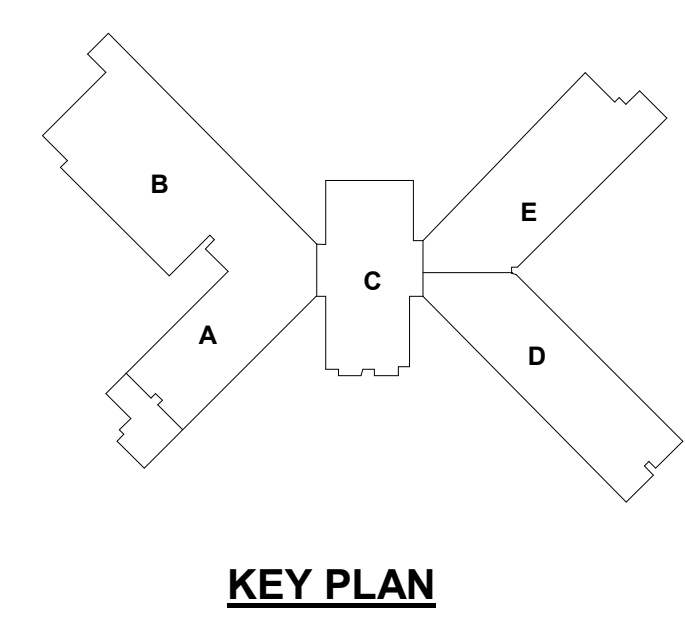
RCP DEMO KEY NOTES	
NOTE NUMBER	NOTE TEXT
1	REMOVE AND STORE FOR REINSTALLATION ACT CEILING SYSTEM, INSULATION, LIGHTS AND CEILING MOUNTED DEVICES AS NEEDED TO REPLACE DUCT WORK AND HVAC EQUIPMENT
2	REMOVE AND STORE BRICK VENEER AT DUCT PENETRATION, REMOVE AS NEEDED TO INSTALL STEEL LINTEL, CMU LINTEL, MOISTURE BARRIER AND FLASHINGS



KEY PLAN



1 FIRST FLOOR OVERALL RCP
1/16" = 1'-0"



SEALS:

NOTES:

REVISION NO	DATE

CONSTRUCTION DOCUMENTS

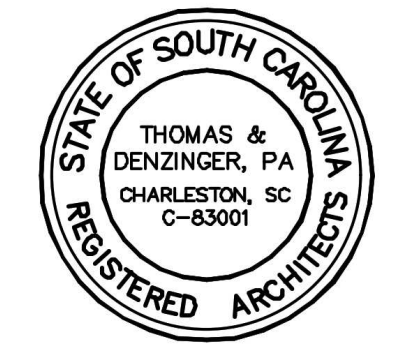
LORIS ELEMENTARY SCHOOL
MAU REPLACEMENT
901 SC-9 BUSINESS, LORIS, SC

THOMAS & DENZINGER ARCHITECTS
138 ST PHILIP ST #200
CHARLESTON, SC 29403
843.906.6211
bbolin@thomasanddenzinger.com

FIRST FLOOR OVERALL RCP

SHEET NAME:	A100
PROJECT NO.:	
DRAWN BY:	
CHECKED BY:	
DATE: 2/21/22	
SCALE:	SHEET OF

PLAN SYMBOLS KEY	
SYMBOL	DESCRIPTION
	EXISTING ACT CEILING SYSTEM
	EXISTING ACT CEILING SYSTEM AND LIGHT
	REMOVE AND STORE EXISTING ACT CEILING SYSTEM FOR REINSTALLATION
	REMOVE AND STORE EXISTING LIGHT FOR REINSTALLATION
	REINSTALLED ACT CEILING SYSTEM
	REINSTALLED LIGHT



SEALS:

NOTES:

REVISION NO. DATE

CONSTRUCTION DOCUMENTS

LORIS ELEMENTARY SCHOOL
 MAU REPLACEMENT
 901 SC-9 BUSINESS, LORIS, SC

THOMAS & DENZINGER ARCHITECTS
 138 ST PHILIP ST #200
 CHARLESTON, SC 29403
 843.906.6211
 bbolin@thomasanddenzinger.com

PARTIAL RCPs

SHEET NAME:

PROJECT NO.

DRAWN BY:

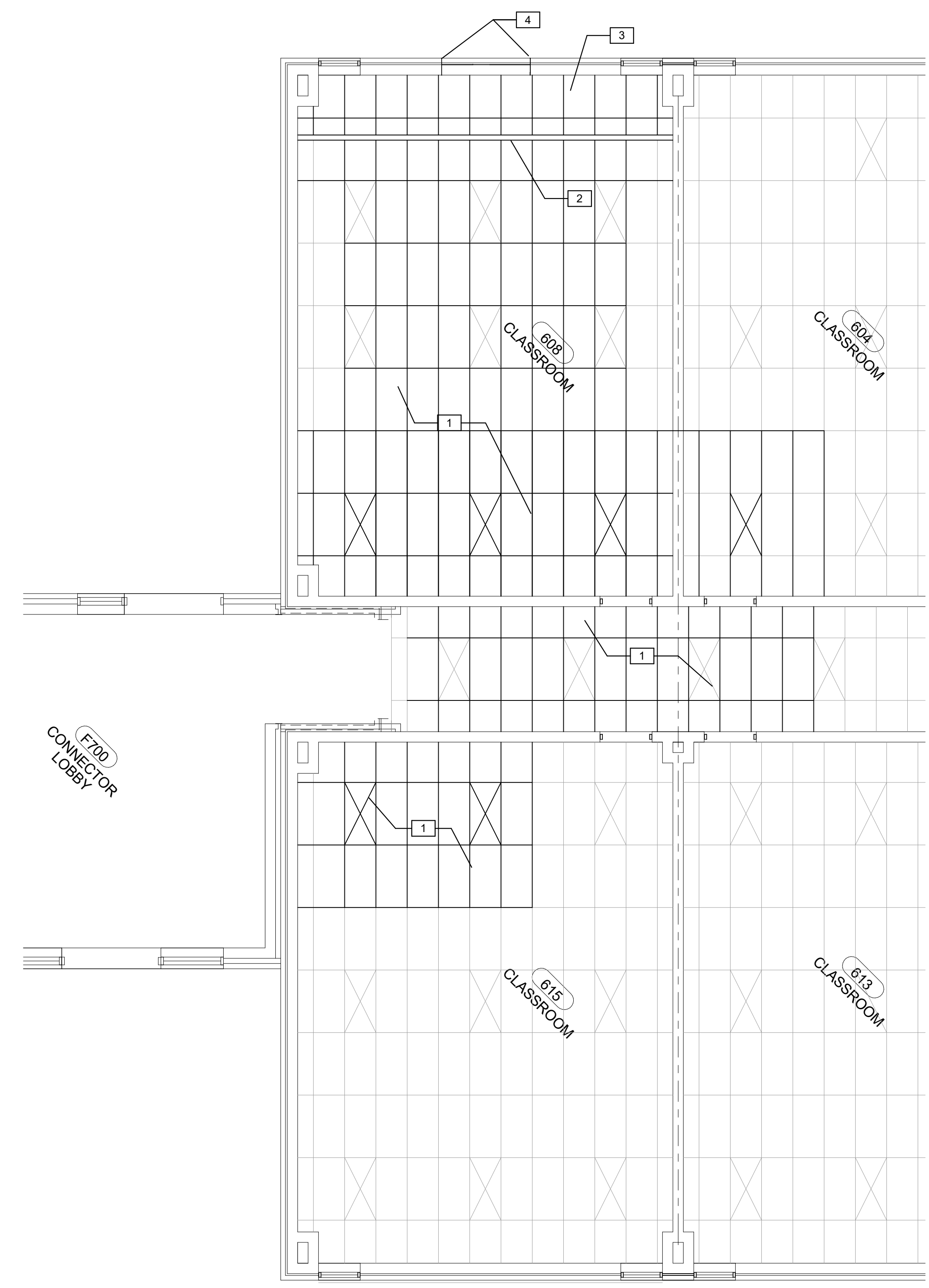
CHECKED BY:

DATE: 2/21/22

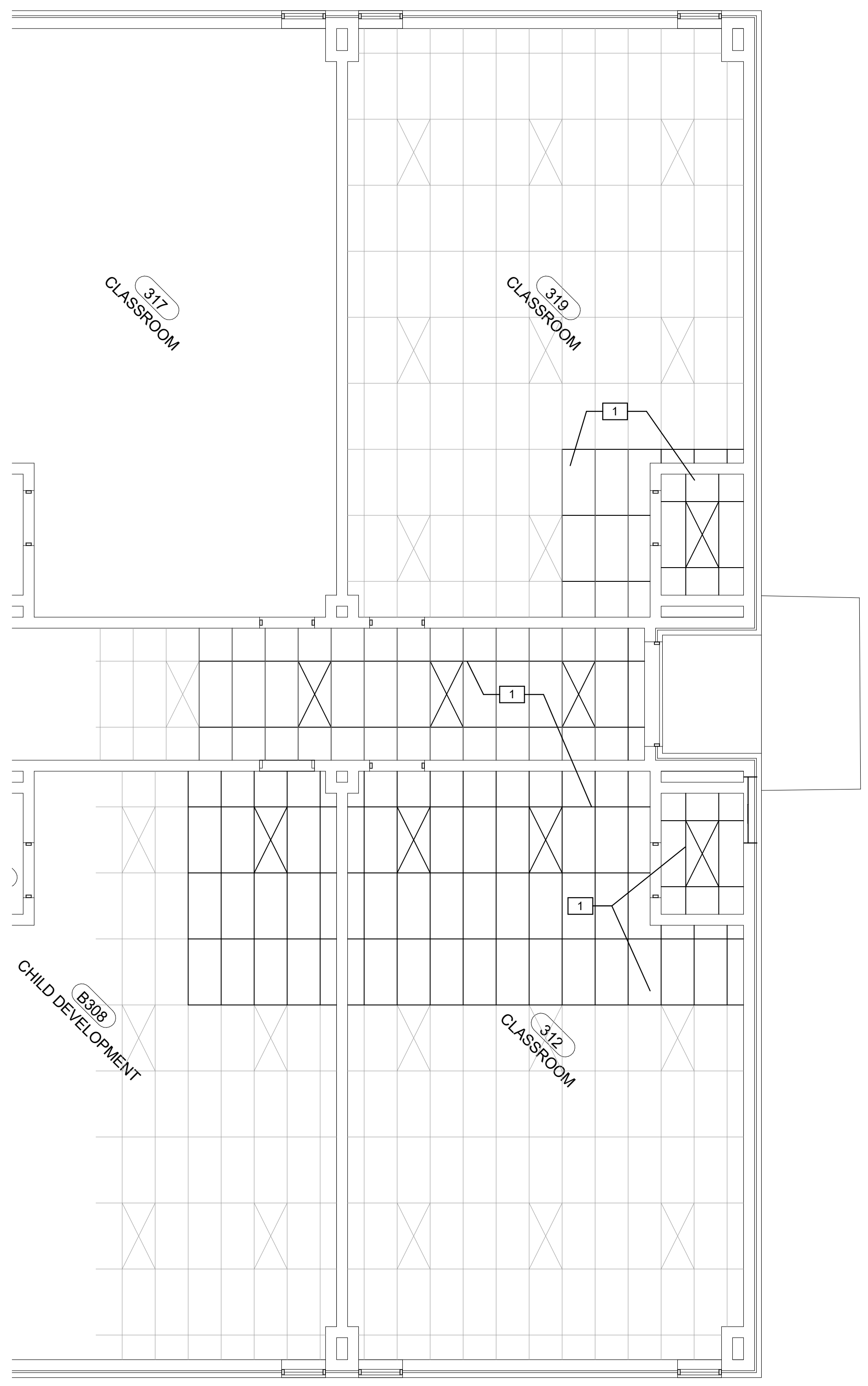
SCALE:

A101

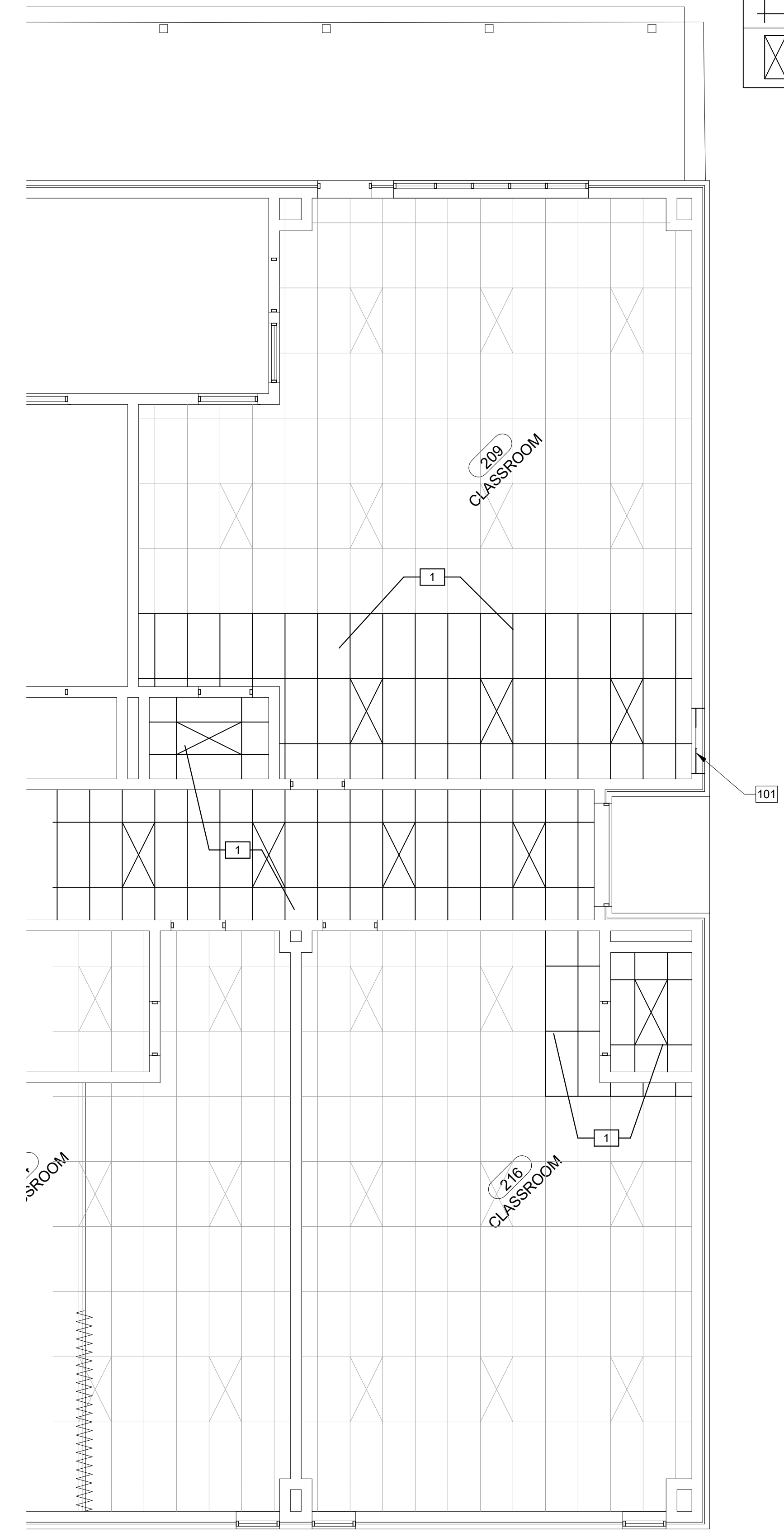
SHEET OF



1 FIRST FLOOR RCP - AREA A
 3/16" = 1'-0"

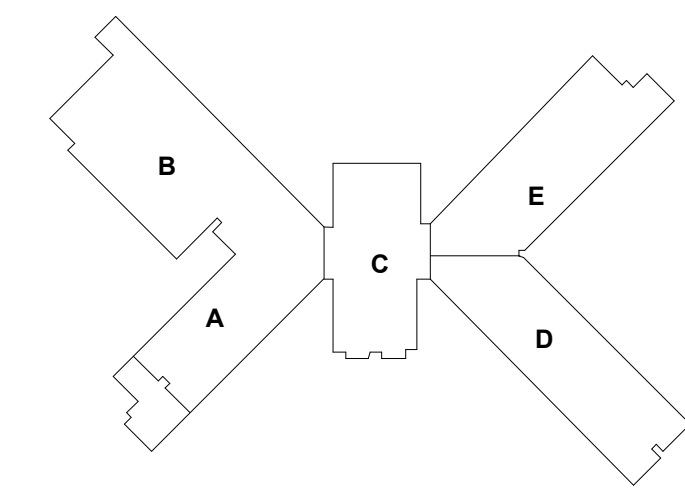


2 FIRST FLOOR DEMO RCP - AREA E
 3/16" = 1'-0"

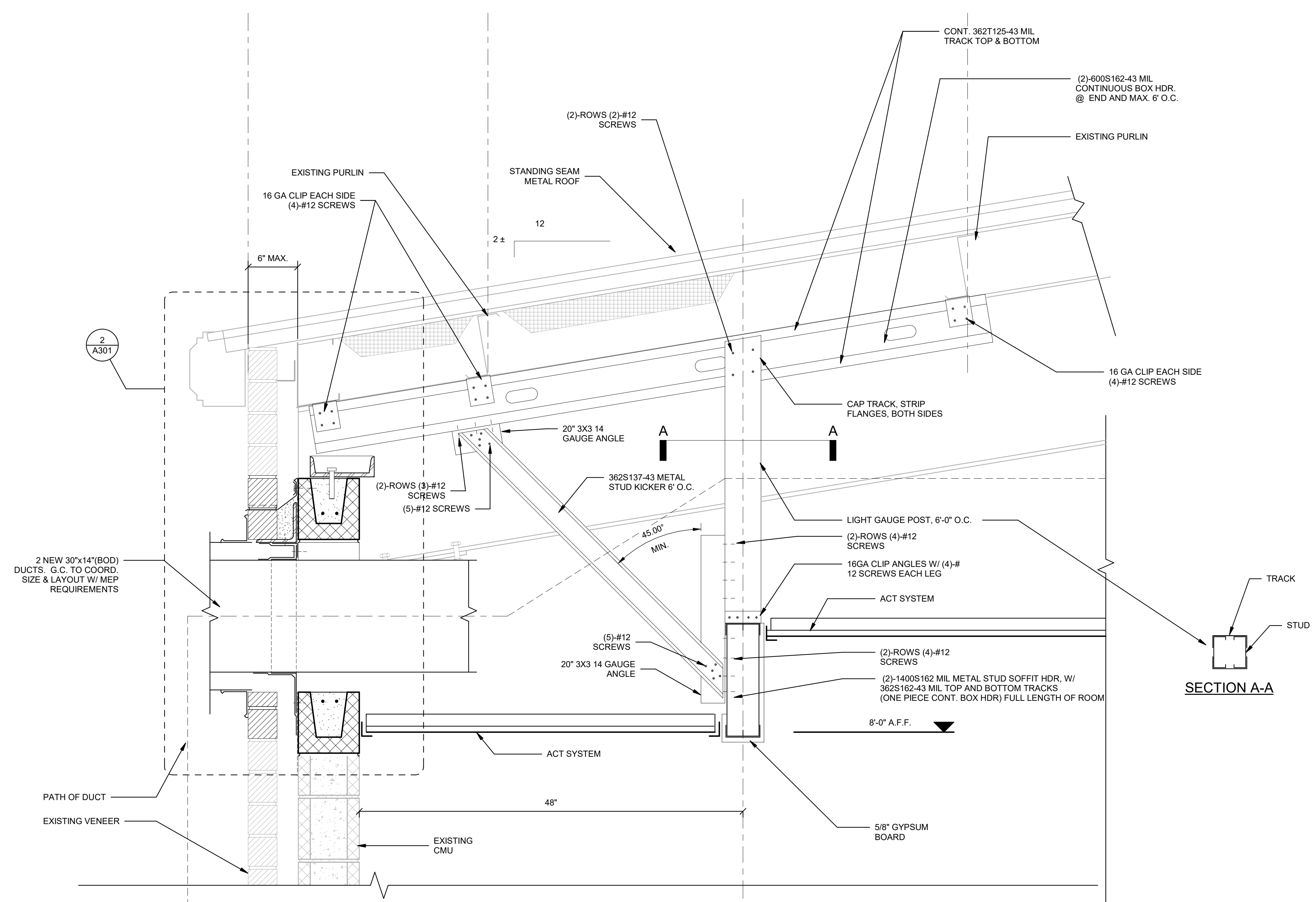


3 FIRST FLOOR RCP - AREA D
 3/16" = 1'-0"

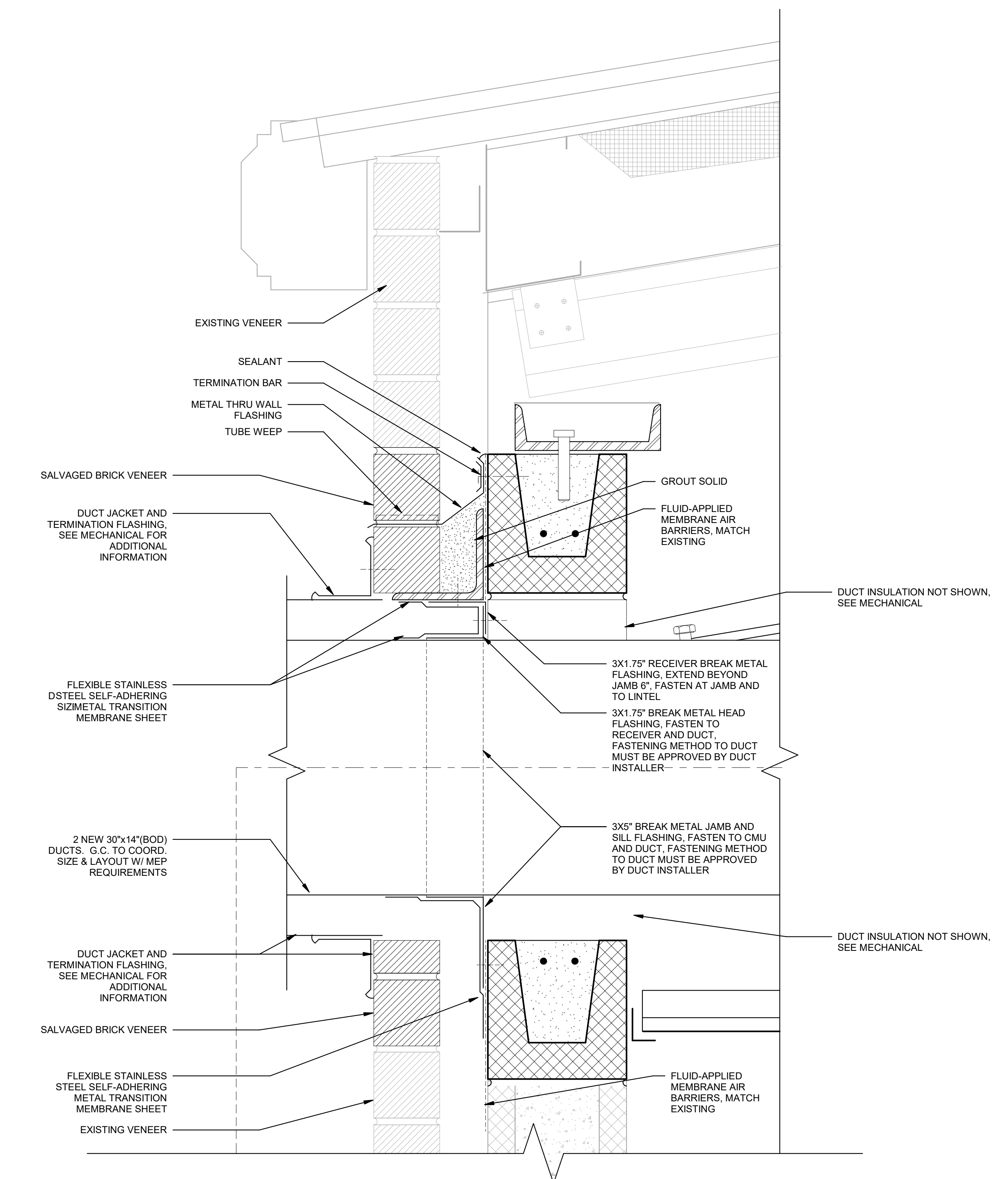
RCP NEW WORK NOTES	
NOTE NUMBER	NOTE TEXT
1	REINSTALL ACT CEILING SYSTEM, LIGHTS, INSULATION, CEILING MOUNTED DEVICES AS NEEDED TO REPLACE DUCT WORK AND HVAC EQUIPMENT
2	GYPSUM AND STRUCTURAL METAL STUD HEADER, SUSPENDED FROM STRUCTURE ABOVE, BOTTOM OF HEADER @ 8'-0" A.F.F., PAINT TO MATCH EXISTING
3	REINSTALL ACT CEILING SYSTEM, LIGHTS, INSULATION, CEILING MOUNTED DEVICES AS NEEDED TO REPLACE DUCT WORK AND HVAC EQUIPMENT, BOTTOM OF CEILING @ 8'-0"
4	INSTALL SALVAGED BRICK AROUND DUCT OPENING



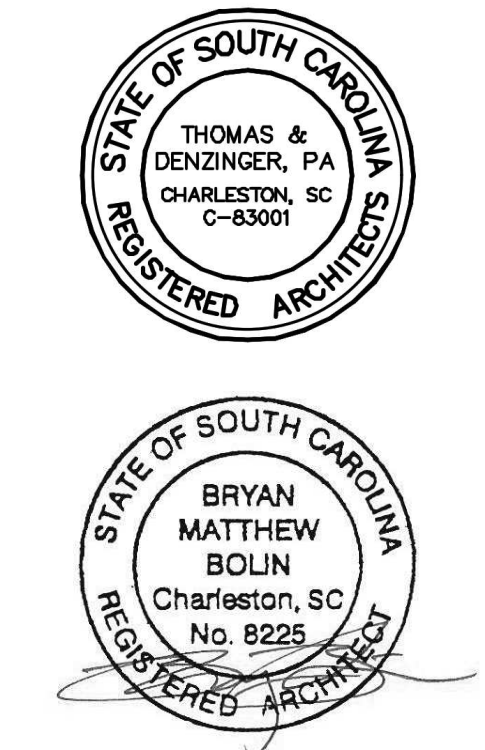
KEY PLAN



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



2 DUCT PENETRATION DETAIL
3" = 1'-0"



SEALS:
NOTES:

REVISION NO	DATE

CONSTRUCTION DOCUMENTS

LORIS ELEMENTARY SCHOOL
MAU REPLACEMENT
901 SC-9 BUSINESS, LORIS, SC

THOMAS & DENZINGER ARCHITECTS
138 ST PHILIP ST #200
CHARLESTON, SC 29403
843.906.6211
bbolin@thomasanddenzinger.com

SECTION DETAILS

SHEET NAME:
PROJECT NO.
DRAWN BY:
CHECKED BY:
DATE: 2/21/22
SCALE:

A301

SHEET OF

ABBREVIATIONS:

AB	ANCHOR BOLT
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT
B/	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BLK	BLOCK
BTWN	BETWEEN
CANT	CANTILEVER
C/C	CENTER TO CENTER
CHAM	CHAMFER
CIRC	CIRCULAR
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTRD	CENTERED
D	DEPTH
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DWGS	DRAWINGS
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXIST	EXISTING
EXT	EXTERIOR
FC	FILLED CELL
FF	FINISHED FLOOR
FN	FINISH
FLR	FLOOR
FDN	FOUNDATION
FRMG	FRAMING
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GALV	GALVANIZED
GA	GAUGE
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLT
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCL	INCLUDE, ING
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
LB	POUND
LG	LONG
LLB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LSL	LONG SLOTTED HOLES
LT	LIGHT
LTWT	LIGHTWEIGHT
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MASONRY JOINT
MO	MASONRY OPENING
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
O/O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPOSITE
OW	OPEN WEB
PAF	POWDER ACTUATED FASTENER
PL	PLATE
PL	POUNDS PER LINEAL FOOT
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
RAD	RADIUS
REF	REFERENCE
REINF	REINFORCEMENT
RET	RETURN
REV	REVISION
RP	RADIUS POINT
RT	RIGHT
RTU	ROOF TOP UNIT
S	SOUTH
SA	SLEEVE ANCHOR
SB	SLAB BOLSTER
SCHED	SCHEDULE
SECT	SECTION
SF-	STEP FOOTING
SIM	SIMILAR
SPEC	SPECIFICATIONS
SP	SPACING,ES
SQ	SQUARE
SSL	SHORT SLOTTED HOLES
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENERS
STL	STEEL
SYMM	SYMMETRICAL
T/	TOP OF
TB	TIE BEAM
TC	TIE COLUMN
TCX	TOP CHORD EXTENSION
T&B	TOP AND BOTTOM
TEMP	TEMPORARY
TRAN	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WT	WEIGHT
WWM	WELDED WIRE MESH

GENERAL NOTES

- STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF PROJECT DRAWINGS, PROJECT MANUAL, AND ALL SHOP DRAWING SUBMITTALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES AND ALL OTHER COORDINATION ISSUES WITH OTHER TRADES.
- IN CASE OF CONFLICT BETWEEN VARIOUS STRUCTURAL DRAWINGS, STRUCTURAL PLANS, OR STRUCTURAL DETAILS THE MORE STRINGENT SHALL GOVERN.
- IN CASE OF CONFLICT BETWEEN CONTRACT DOCUMENT DRAWINGS, DRAWING NOTES, AND SPECIFICATIONS THE MORE STRINGENT SHALL GOVERN.
- WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- ALL NOTES, DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS INDICATED OR REFERENCED. ALL NOTES, DETAILS AND SECTIONS SHALL APPLY TO ANY SIMILAR SITUATION THROUGHOUT THE ENTIRE PROJECT UNLESS A SEPARATE NOTE, DETAIL OR SECTION IS PROVIDED.
- REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION.
- USE OF REPRODUCED CONTRACT DRAWINGS IN PART OR WHOLE FOR THE PURPOSE OF SHOP DRAWING PREPARATION SHALL NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAYOUT, COORDINATE, DETAIL, FABRICATE AND INSTALL A COMPLETE STRUCTURE.
- ALL SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR FOR CONFORMANCE TO THE CONTRACT DOCUMENTS, FOR COMPLETENESS, AND TO RESPOND TO CONTRACTOR COORDINATION RELATED QUESTIONS PRIOR TO SUBMITTING FOR APPROVAL. ALL SHEETS SHALL BE STAMPED AND INITIALED BY THE CONTRACTOR INDICATING SUCH A REVIEW HAS BEEN COMPLETED PRIOR TO ISSUING SUBMITTAL FOR APPROVAL.
- CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.
- ALL ELEVATIONS INDICATED IN STRUCTURAL DRAWINGS ARE IN REFERENCED TO A GROUND FLOOR FINISHED SLAB ELEVATION OF 0'-0" (SLAB OF EXISTING ADJACENT BUILDING), UNLESS NOTED OTHERWISE.
- GC TO VERIFY ALLOWABLE SOIL BEARING PRESSURE PRIOR TO START OF CONSTRUCTION. THE OWNER SHALL PROVIDE THE G.C. WITH THE SOILS REPORT FOR THE EXISTING ADJACENT STRUCTURE. NOTIFY EOR IF BEARING PRESSURE IS LESS THAN THAT ASSUMED.
- THE G.C. SHALL COORD COOLING TOWER SUPPORT DIMENSIONS AND ATTACHMENT TO NEW STEEL WITH THE STEEL FABRICATOR PRIOR TO STEEL FABRICATION.
- THE G.C. SHALL BE RESPONSIBLE FOR MOVING AND REPLACING ALL MEP INTERFERENCES ASSOCIATED W/ THE INSTALLATION OF NEW FRAMING.
- ALL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

MASONRY

- MASONRY CONSTRUCTION SHALL CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACIASCE 530) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACIASCE 530.1) EXCEPT AS AMENDED BELOW.
- STRUCTURE HAS BEEN DESIGNED AS A BEARING PIER STRUCTURE. ALL MASONRY UNITS SHALL BE LAID PRIOR TO CONCRETE PLACEMENT AND STEEL PLACEMENT.
- USE TYPE "S" MORTAR WITH MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI.
- MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON NET SECTION, TO PROVIDE NET AREA COMPRESSIVE STRENGTH OF MASONRY (FM) OF 2000 PSI.
- PROVIDE FILLED CELLS AS SHOWN ON PLANS.
- PROVIDE FULL MORTAR BEDDING.
- REINFORCING FOR FILLED CELLS SHALL CONFORM TO ASTM A615, GRADE 60.
- CONCRETE FOR FILLED CELLS SHALL BE VIBRATED DURING PLACEMENT USING A "PENCIL" TYPE VIBRATOR.
- ALL GROUT SHALL BE 3000 PSI PEA GRAVEL GROUT.

POST INSTALLED STRUCTURAL ANCHORS

- NOTED EMBEDMENT DEPTHS ARE FROM FACE OF CONCRETE OR MASONRY.
- THE POST INSTALLED ANCHORS SHALL HAVE AN ICC REPORT, BE IBC 2015 CODE COMPLIANT, BE ALLOWED IN SEISMIC DESIGN CATEGORY D, AND MEET ACI 318 APPENDIX D REQUIREMENTS.
- ALL INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S DATA AND THE ASSOCIATED ICC REPORT.
- ALL PERSONNEL INSTALLING ANCHORS SHALL HAVE ATTENDED INSTALLER TRAINING PER THE SPECIFICATIONS.
- FIELD TESTING AND INSPECTION OF POST INSTALLED ANCHOR MATERIALS AND POST INSTALLED ANCHOR INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER.
- THE G.C. SHALL SUBMIT THE PRODUCT FOR REVIEW AND APPROVAL PRIOR TO PURCHASE.

COLD-FORMED STEEL FRAMING

- THE USE OF THE TERM LIGHT GAUGE SHALL BE EQUIVALENT TO COLD-FORMED.
- WHERE NOT SPECIFICALLY INDICATED ALL FASTENERS SHALL BE MINIMUM OF #10 SELF DRILLING SCREWS.
- ALL FASTENERS UNDER SHEATHING SHALL HAVE LOW PROFILE HEADS.
- ALL MECHANICAL FASTENERS SHALL HAVE A MINIMUM SPACING AND EDGE DISTANCE OF THREE FASTENER DIAMETERS.
- ALL MECHANICAL FASTENERS SHALL EXTEND THROUGH CONNECTED MEMBERS BY A MINIMUM OF THREE THREADS.
- FRAMER SHALL ENSURE PUNCHOUT ALIGNMENT WHEN USING COLD ROLLED CHANNEL BRIDGING.
- FIELD TESTING AND INSPECTION OF COLD FORMED STEEL FRAMING AND ASSOCIATED INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

STRUCTURAL DESIGN CRITERIA

- GRAVITY LOAD DESIGN VALUES: IBC-2018 / ASCE 7-16
 - FLOOR LIVE LOADS:
 - SCHOOL CLASSROOMS 40-PSF
 - FIRST FLOOR CORRIDORS 100-PSF
 - RESTROOMS 60-PSF
 - LABS 75-PSF
 - KITCHENS 125-PSF
 - DEAD LOADS:
 - ACTUAL MATERIAL WEIGHTS PER ASCE 7-16. SEE ARCHITECTURAL DRAWINGS FOR ROOF, WALL, AND FLOOR CONSTRUCTION.
- SEISMIC DESIGN VALUES: IBC-2018 / ASCE 7-16
 - S_e = 0.258 g
 - S₁ = 0.099 g
 - S_{0.5} = 0.274 g
 - S_{0.1} = 0.159 g
 - SITE CLASS: "D"
 - BUILDING RISK CATEGORY: "II"
 - EXPOSURE CATEGORY: "B"
 - IMPORTANCE FACTOR: I_e = 1.0
 - SEISMIC DESIGN CATEGORY: "D"
 - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
 - ALLOWABLE INTERSTORY DRIFT: 0.020_h
 - MASONRY SHEAR WALLS
 - R = 3.0 (EXISTING)
 - OMEGA = 2.5
- WIND LOAD DESIGN VALUES: IBC-2018 / ASCE 7-16
 - V = 150 mph (3-sec gust)
 - BUILDING RISK CATEGORY: "II"
 - EXPOSURE CATEGORY: "B"
 - ENCLOSURE CLASSIFICATION: CLOSED
 - WIND DIRECTIONALITY FACTOR: K_d = 0.85
 - TOPOGRAPHIC FACTOR: K_t = 1.0
 - VELOCITY EXPOSURE COEFFICIENT: K_e = 0.70
 - VELOCITY PRESSURE: q = 34.27 psf (ULT)
 - INTERNAL PRESSURE COEFFICIENT: GC_{pi} = +/- 0.18
 - ALLOWABLE INTERSTORY DRIFT: 0.0025_h

TEMPORARY SHORING NOTE:

THE G.C. SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING. ALL WALLS SHALL BE ASSUMED TO BE LOAD BEARING. THE G.C. SHALL PROVIDE TEMPORARY SHORING FOR ALL POSTS AND DIAGONAL SHORING POSTS IN THE ROOF. THE G.C. SHALL PROVIDE TEMPORARY WALL BRACING AS NEEDED.

G.C. TO PROVIDE SHORING FOR EXISTING BEAM/JOIST. ALL JOIST FRAMING IS TO BE ASSUMED TO BE LOAD BEARING.

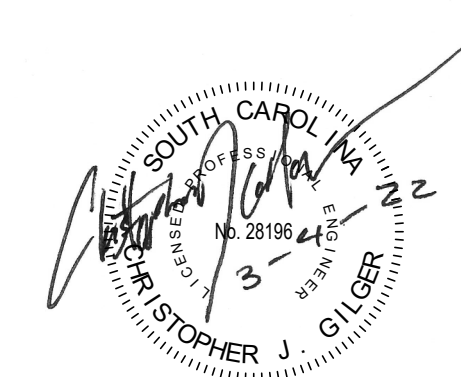
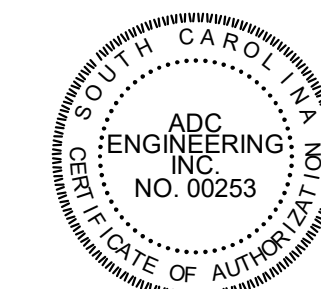
GENERAL NOTE:

- THE G.C. SHALL FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS, AND CONDITIONS AS THEY RELATE TO NEW AND EXISTING FRAMING, CONDITIONS, MEMBER SIZES, AND INTERACTION.
- THE G.C. SHALL COORDINATE NEW FRAMING LAYOUTS WITH EXISTING CONDITIONS.
- ALL CONDITIONS SHALL BE VERIFIED PRIOR TO FABRICATION & INSTALLATION.
- THE G.C. SHALL MOVE & REPLACE ANY/ALL MEP INTERFERENCES WITH THE INSTALLATION OF NEW STRUCTURAL COMPONENTS.
- INFORMATION PROVIDED HEREIN IS BASED ON EXISTING DRAWINGS PROVIDED TO ADC BY WBC.

Whole Building Systems

Loris ES HVAC Replacement

901 SC-9 Business, Loris, SC 29569



1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
ADCENGINEERING.COM

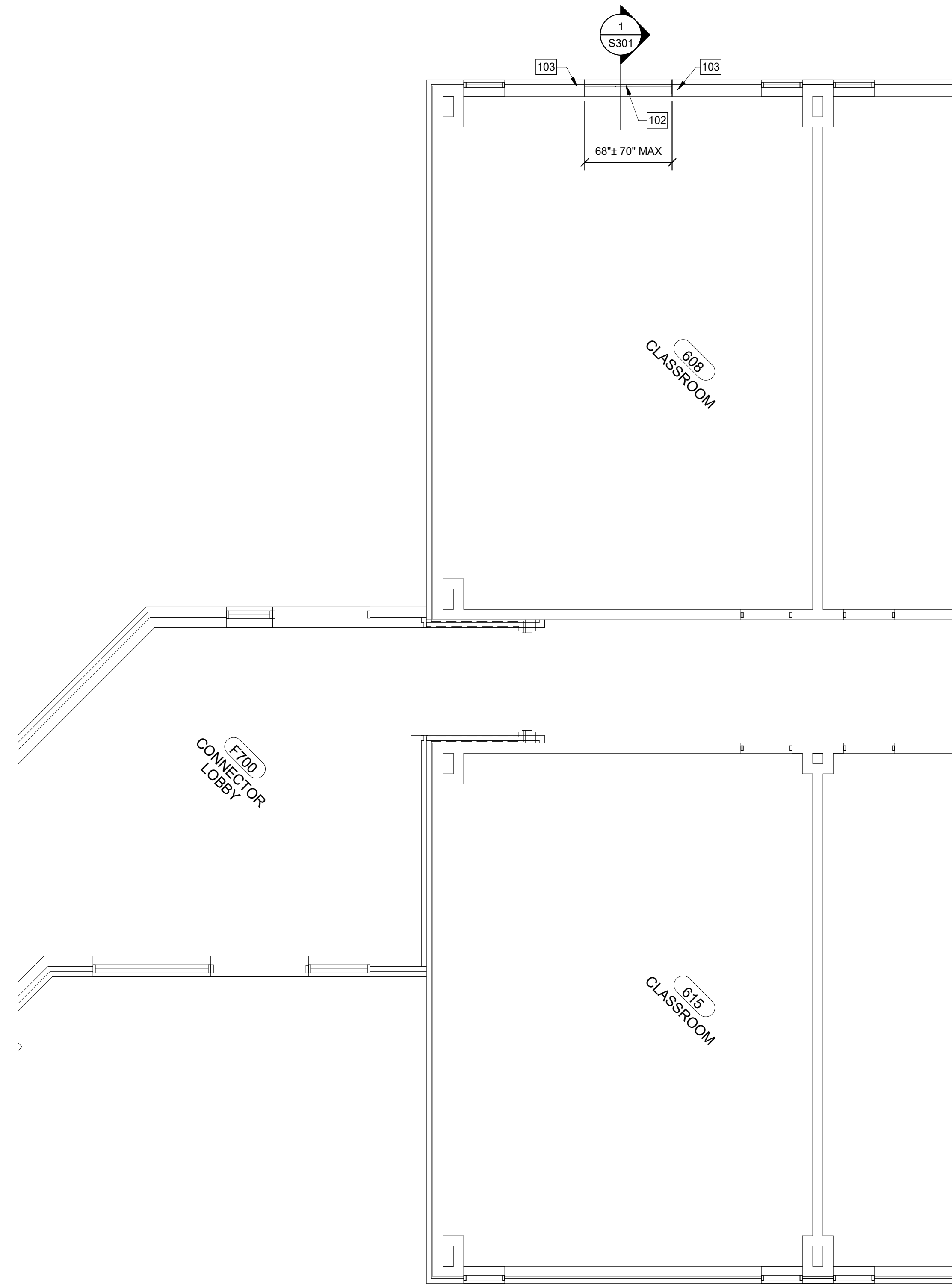
DATE:	3-4-2022
ADC PROJECT #:	21223
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SPB/EH
REVISION:	

GENERAL NOTES

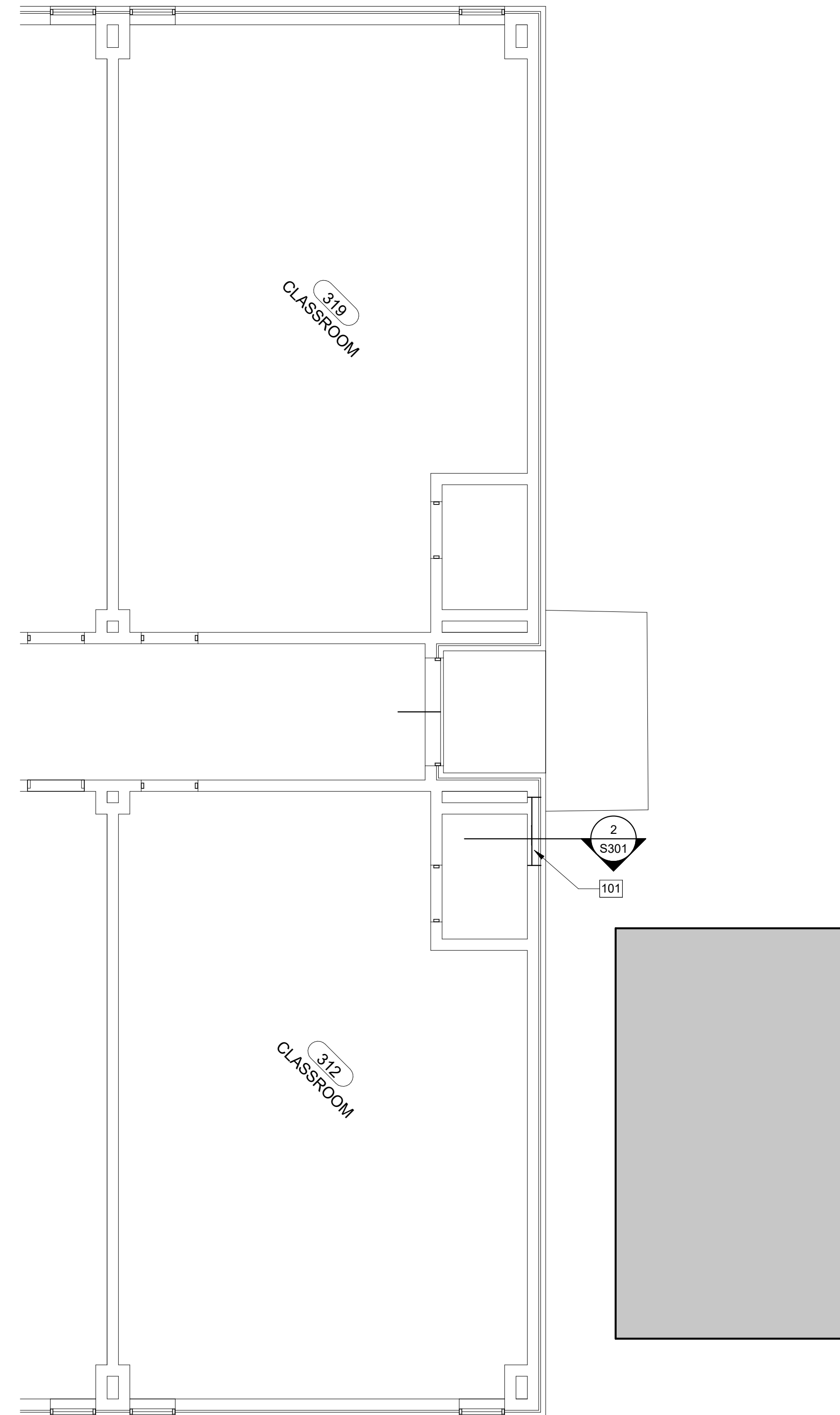
S001

KEYED NOTES (THIS SHEET ONLY)

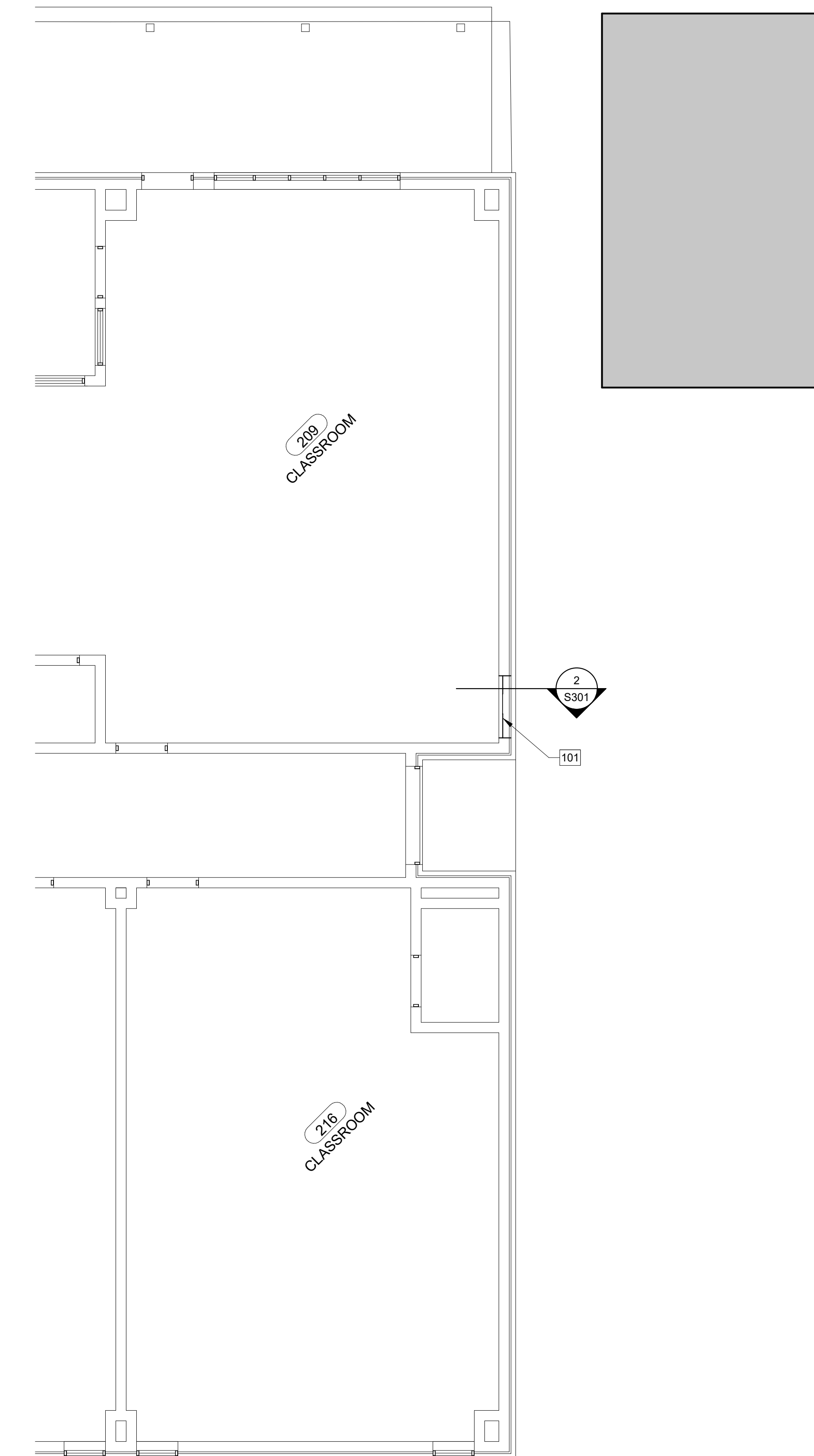
- 101 EXISTING LOUVER. REMOVE & USE AS DUCT PENETRATION. SEE ARCH'S FOR FLASHING & WATER PROOFING REQUIREMENTS. SEE MECHANICAL DRWG'S FOR DUCT SIZES, ELEVATIONS, AND LOCATIONS. IF OPENING NEEDS TO BE ENLARGED, NOTIFY EOR. IF OPENING NEEDS TO BE IN FILLED, PROVIDE 6003162-54 MIL STUDS @16" O/C MAX, W/800T125-54 MIL TOP & BOTTOM TRACKS.
- 102 NEW L1 LINTEL CMU. 8" DEEP CMU LINTEL BLOCK, W/2-#5S CONT. 3000 PSI PEA GRAVEL GROUT.
- 103 REINFORCE 2 ADJACENT CELLS EACH SIDE OF NEW OPENING. SEE TYPICAL REINFORCING RETROFIT DETAIL.



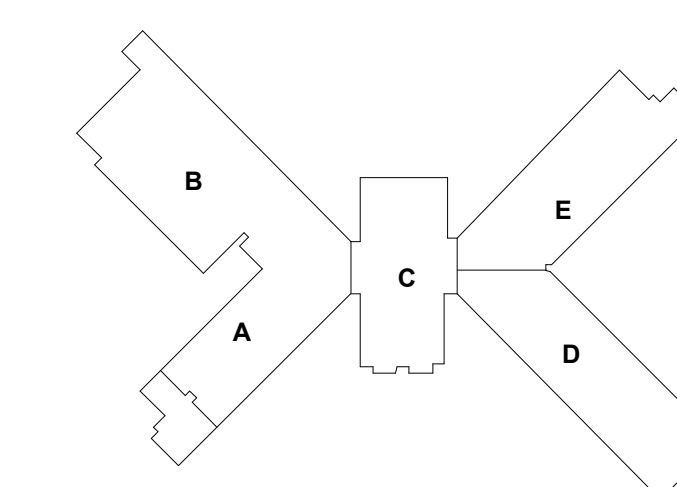
1 PARTIAL FIRST FLOOR - AREA A
3/16" = 1'-0"



3 PARTIAL FIRST FLOOR - AREA E
3/16" = 1'-0"

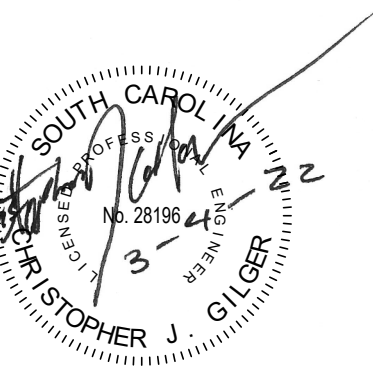
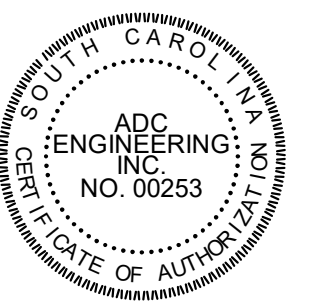


2 PARTIAL FIRST FLOOR - AREA D
3/16" = 1'-0"



KEY PLAN

Whole Building Systems
Loris ES HVAC Replacement
 901 SC-9 Business, Loris, SC 29569

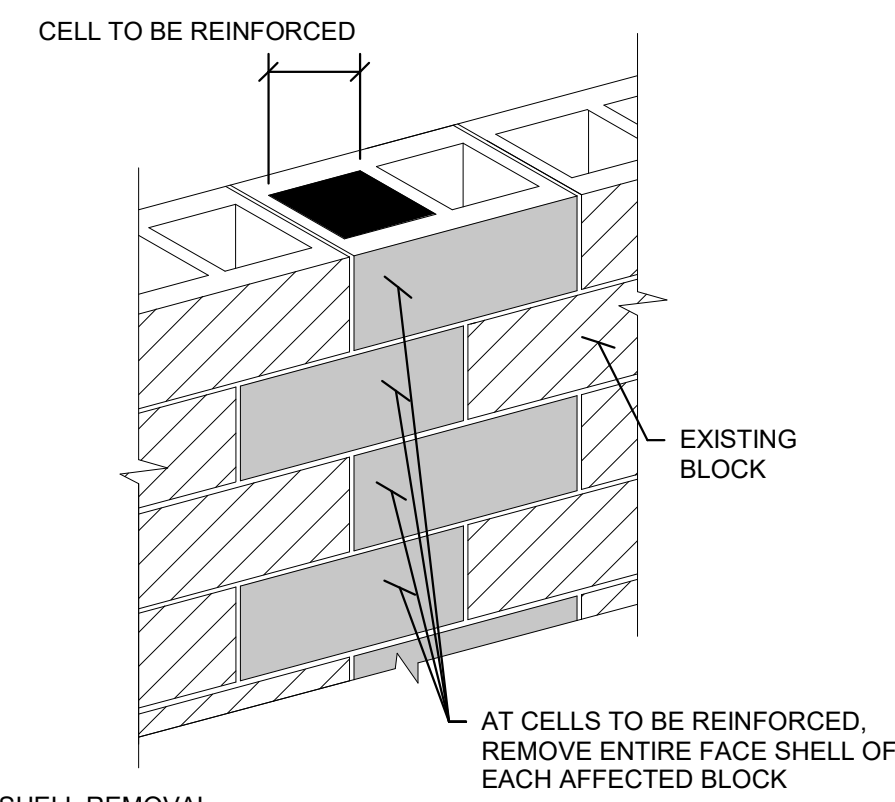


ADC ENGINEERING
 1226 YEAMANS HALL ROAD
 HANAHAN, SC 29410
 843-566-0161
 ADCENGINEERING.COM

DATE: 3-4-2022
 ADC PROJECT #: 21223
 DESIGNED: C,JG
 CHECKED: C,JG
 DRAWN: SPB/EH
 REVISION:

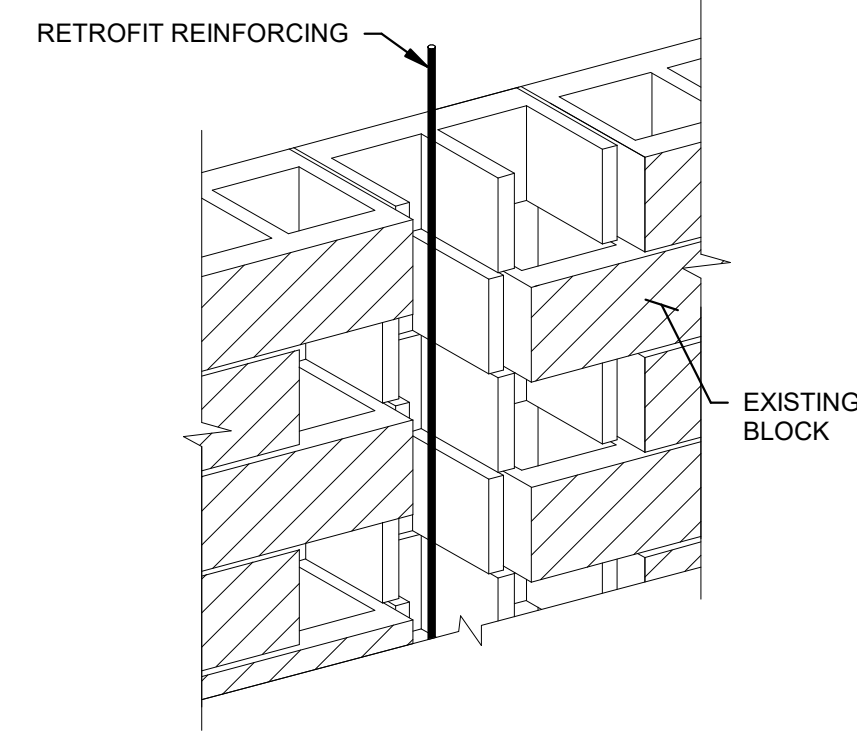
PARTIAL WALL
 PENETRATION
 FRAMING PLANS

S101



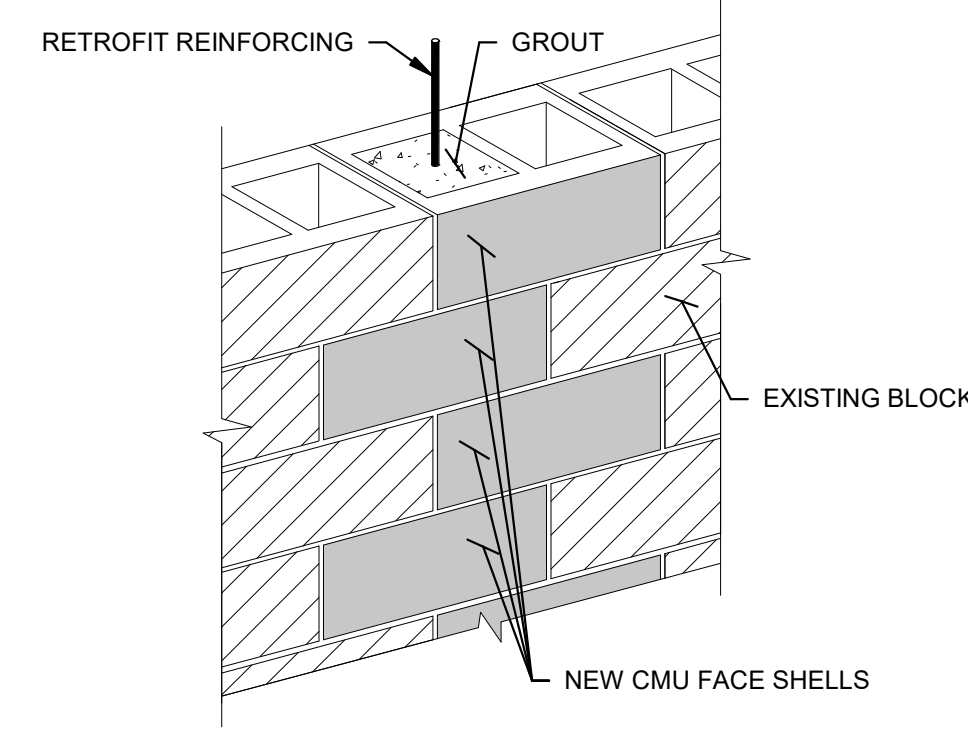
STEP 1: FACE SHELL REMOVAL

- IT SHALL BE ANTICIPATED BY THE CONTRACTOR THAT EXISTING CONDITIONS MAY EXIST WHICH COULD PREVENT REINFORCING FROM BEING PLACED IN CERTAIN CELLS. CONTRACTOR SHALL VERIFY ALL EXISTING ELEMENTS POTENTIALLY LOCATED WITHIN CELLS PRIOR TO FACE SHELL REMOVAL.
- CONTRACTOR SHALL PHASE REINFORCING PROCEDURE ALONG ANY GIVEN WALL IN ORDER TO MAINTAIN THE OVERALL STABILITY OF THE WALL AND STRUCTURE.
- AT EACH CELL TO BE REINFORCED, THE ENTIRE FACE SHELL OF EACH AFFECTED BLOCK SHALL BE REMOVED.



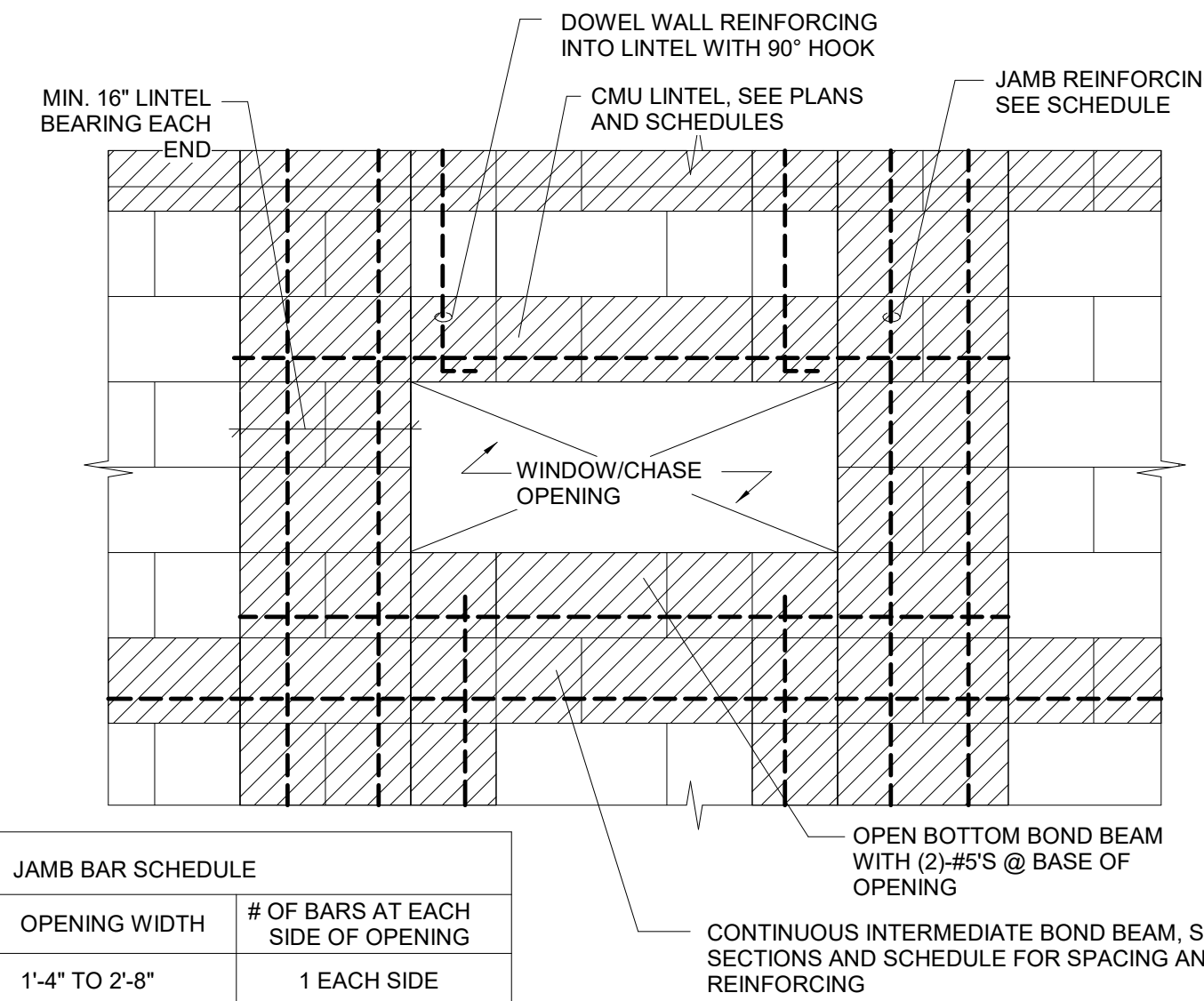
STEP 2: RETROFIT REINFORCING INSTALLATION

- COORDINATE REQUIRED BAR SIZES WITH PLANS.
- COORDINATE REQUIRED NUMBER OF VERTICALLY GROUTED CELLS WITH PLANS AND TYPICAL CMU DETAILS.
- VERTICAL REINFORCING SHALL BE CONTINUOUS FROM FOOTING, GIRT, OR DIAPHRAGM LEVEL BELOW TO DIAPHRAGM LEVEL, GIRT, OR TOP OF WALL ABOVE PLUS LAP LENGTH.
- AT FOUNDATION LEVEL, DRILL & EPOXY RETROFIT REINFORCING 8" INTO EXISTING FOOTING.
- DRILL RETROFIT REINFORCING THROUGH INTERMITTENT BOND BEAMS AS OCCURS.
- RETROFIT REINFORCING SHALL BE SPICED WITH MECHANICAL COUPLERS OR WITH LAPS PER TYP. CMU LAP SPLICE SCHEDULE.
- REBAR POSITIONERS SHALL BE USED IN ORDER TO PROPERLY LOCATE THE RETROFIT REINFORCING WITHIN THE WALL. (REINFORCING SHALL BE CENTERED UNO)



STEP 3: FACE SHELL REINSTALLATION, SHORING & GROUTING

- INSTALL NEW FACE SHELLS AT EXPOSED AREAS & MORTAR IN PLACE TO MATCH SURROUNDING WALL.
- SHORE NEW FACE SHELLS AS REQUIRED.
- PLACE GROUT AT NEWLY REINFORCED CELL IN MAX 5'-0" LIFTS.

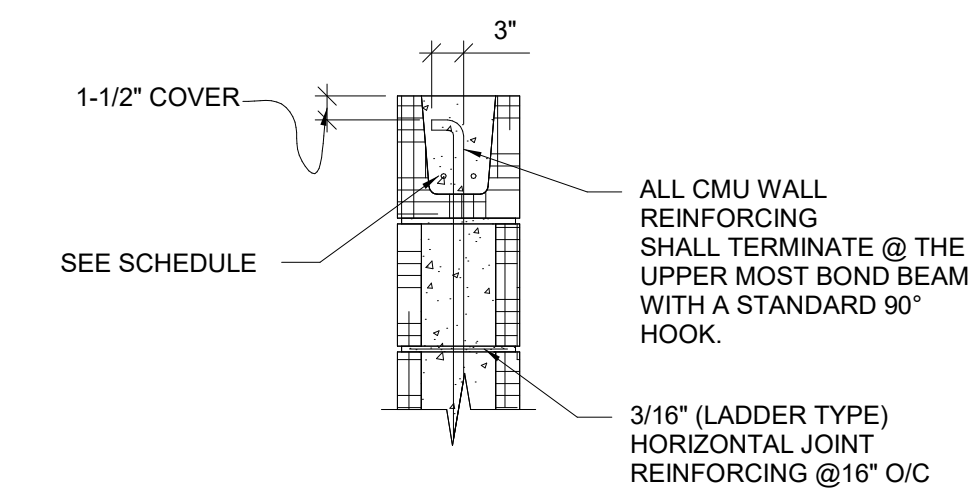


- NOTES:**
- PROVIDE HORIZONTAL JOINT REINFORCEMENT @ 16" O.C. VERTICALLY AND FIRST COURSE ABOVE AND BELOW OPENING. EXTEND MIN. OF 24" PAST.
 - LINTELS SHALL BE CONSTRUCTED OF STANDARD "U" SHAPED UNITS (NOT BOND BEAM UNITS).
 - JAMB REINFORCING SHALL BE CONTINUOUS FROM FOOTING TO TOP OF WALL.
 - DETAIL IS TYPICAL ALL OPENINGS GREATER THAN 1'-0" WIDE.
- NOTE: SEE ALSO WALL ELEVATIONS PROVIDED**

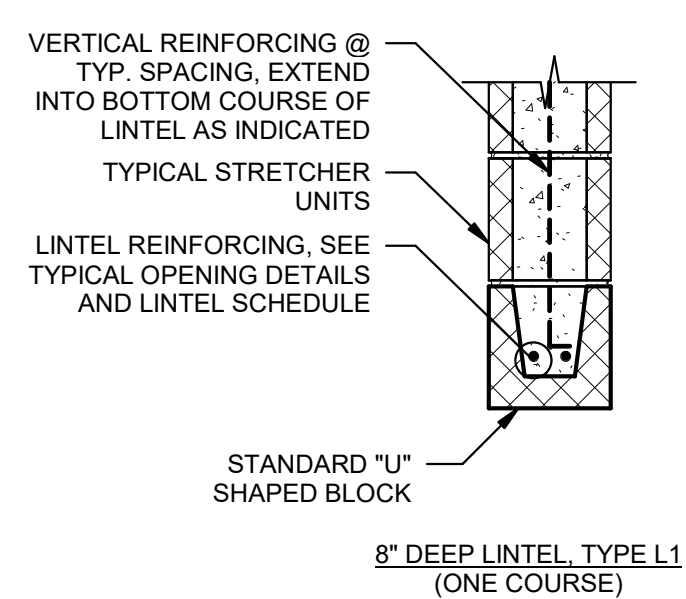
JAMB BAR SCHEDULE	
OPENING WIDTH	# OF BARS AT EACH SIDE OF OPENING
1'-4" TO 2'-8"	1 EACH SIDE
2'-9" TO 7'-4"	2 EACH SIDE

1 TYP. RETROFIT CMU VERTICAL REINFORCEMENT
1/2" = 1'-0"

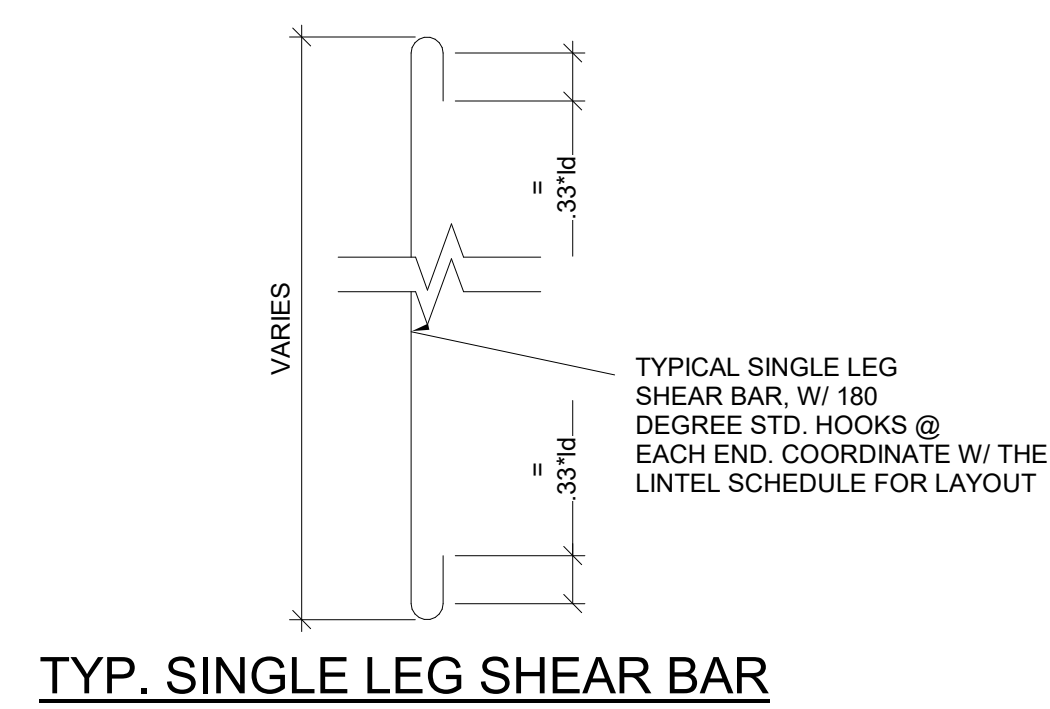
3 TYPICAL CMU CONSTRUCTION (@ WINDOW)
1" = 1'-0"



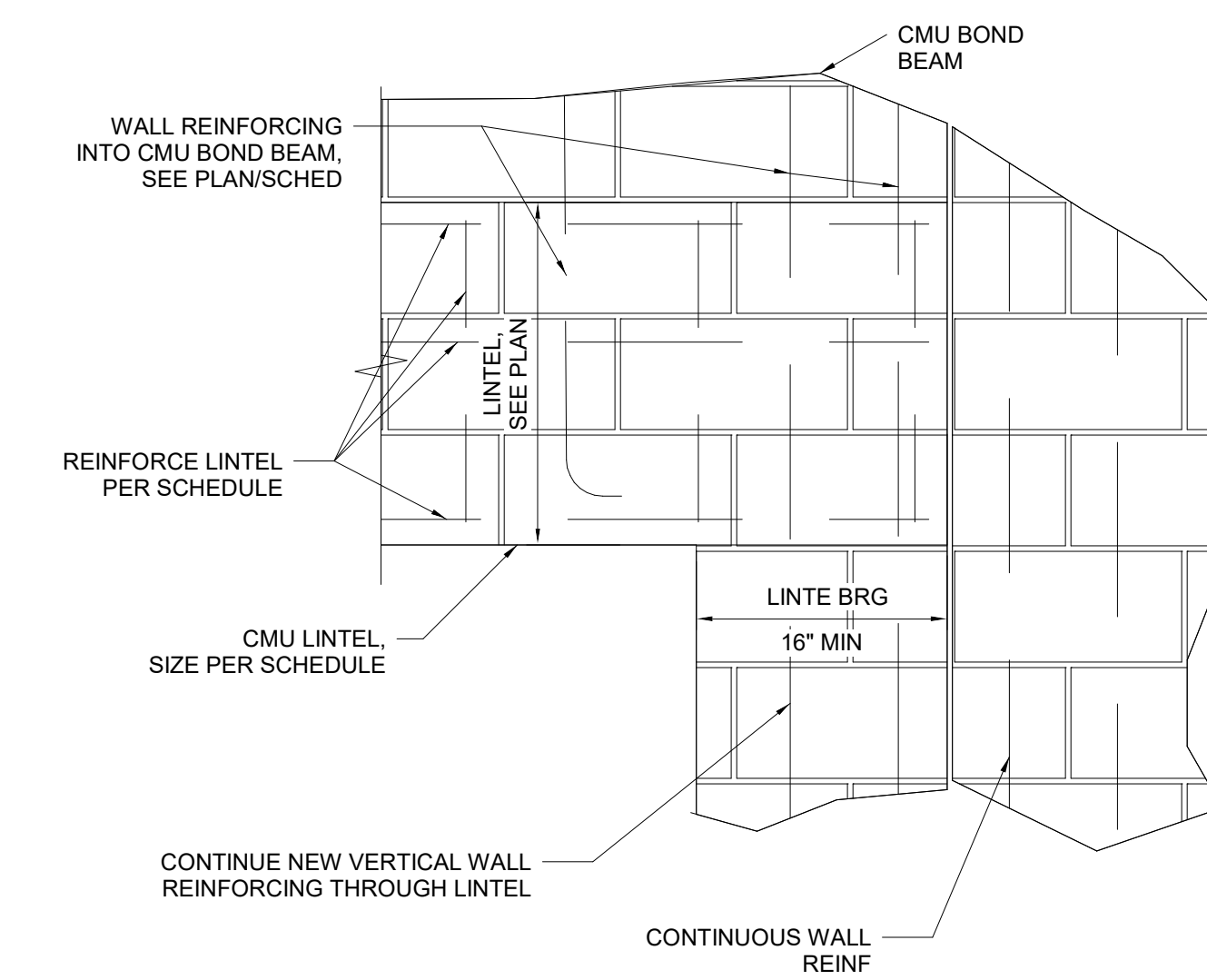
6 TYPICAL BOND BEAM DETAIL
1" = 1'-0"



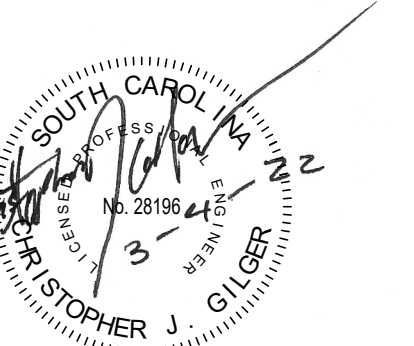
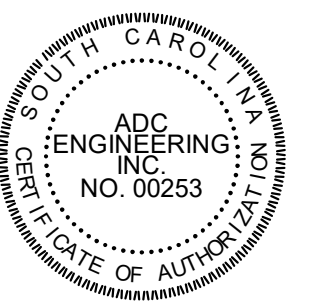
7 CMU-TYP. CMU LINTEL
1" = 1'-0"



8 TYPICAL CMU LINTEL DETAIL
1" = 1'-0"

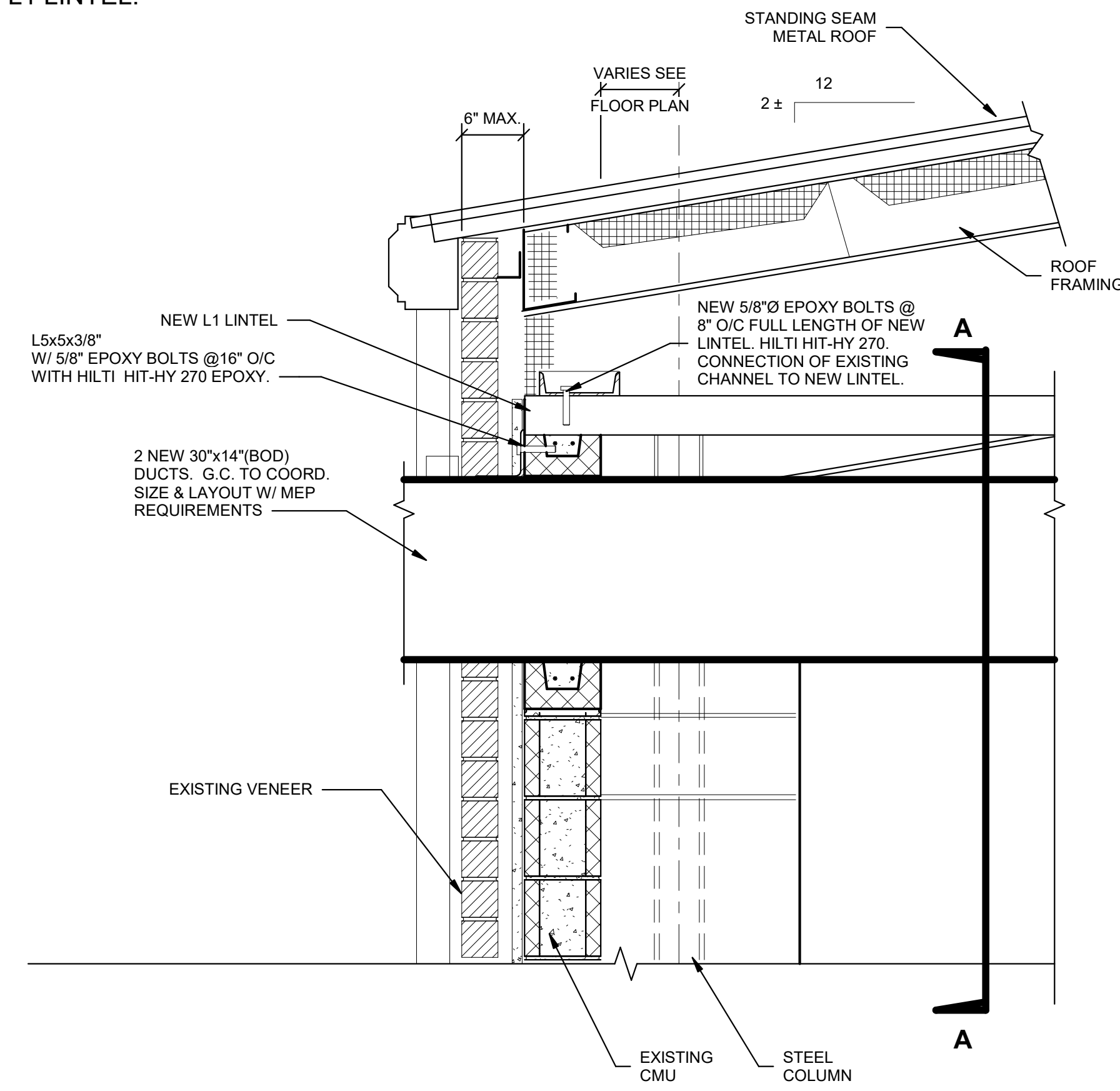


9 TYP. LINTEL BEARING @ CONTROL JOINTS
1" = 1'-0"

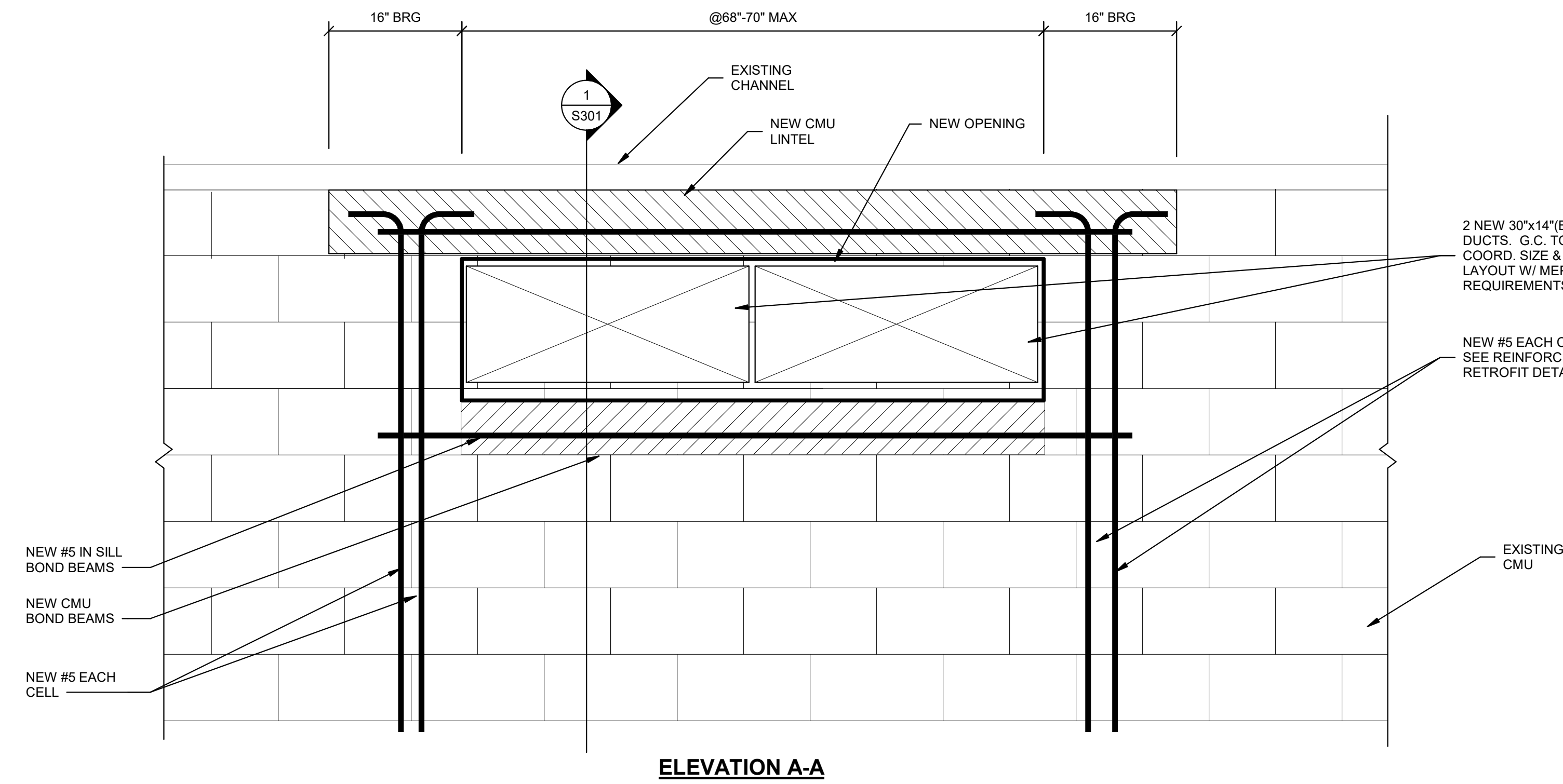


DATE:	3-4-2022
ADC PROJECT #:	21223
DESIGNED:	CJG
CHECKED:	CJG
DRAWN:	SPB/EH
REVISION:	

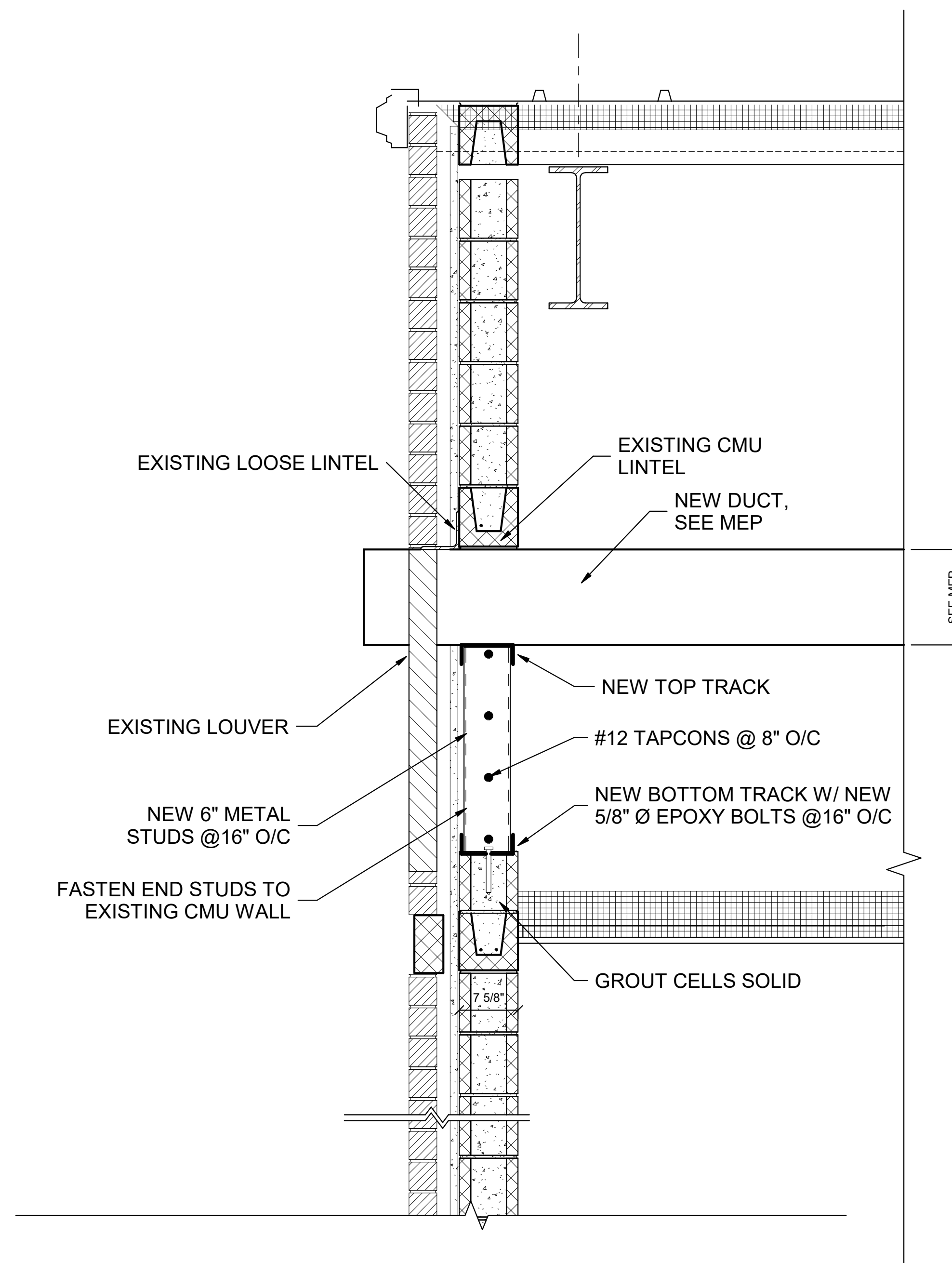
NOTE:
CUT EXISTING CMU FOR
NEW OPENING & PROVIDE
NEW L1 LINTEL.



1 WALL DETAIL 1
1" = 1'-0"



ELEVATION A-A

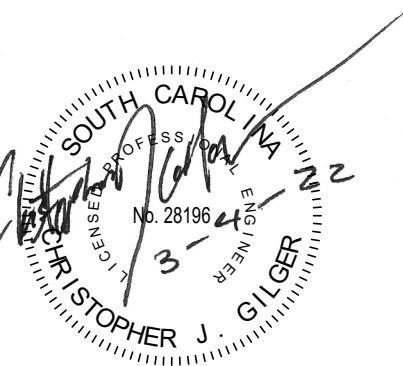
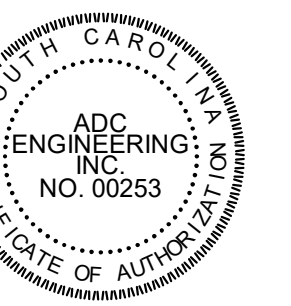


2 WALL DETAIL 2
1" = 1'-0"

Whole Building Systems

Loris ES HVAC Replacement

901 SC-9 Business, Loris, SC 29569

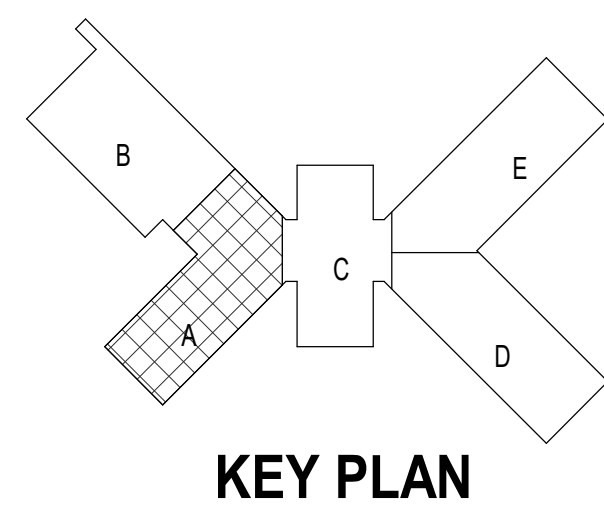


1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
ADCENGINEERING.COM

DATE: 3-4-2022
ADC PROJECT #: 21223
DESIGNED: C,JG
CHECKED: C,JG
DRAWN: EH
REVISION:

SECTION DETAILS

S301



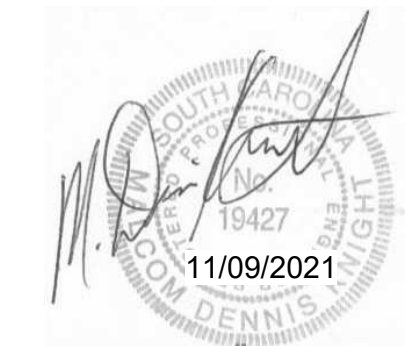
NEW WORK GENERAL NOTE

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE

New Work Keynotes	
Number	New Work Keynote Text
1	INSTALL NEW UNIT ON NEW EQUIPMENT PAD. EQUIPMENT PAD SHALL BE 12" LARGER ALL AROUND THAN NEW UNIT PROVIDED. PIPE CONDENSATE AWAY FROM UNIT TO PROVIDE PROPER DRAINAGE.
2	NEW DUCT SHALL BE INSULATED AND WRAPPED WITH WEATHERPROOF ALUMINUM JACKET. SUPPORT DUCT TO EXTERIOR WALL AND SEAL AROUND WALL OPENINGS WHERE DUCT PENETRATES INTO BUILDING.
3	TIE NEW DUCT INTO EXISTING DUCT
4	BLANK-OFF EXISTING LOUVER. BLANK-OFF SHALL INCLUDE 2" POLYISO INSULATION 100% ADHERED TO SHEETMETAL.
5	EXISTING DUCT AND EQUIPMENT SHOWN FOR REFERENCE ONLY.
6	TYPICAL FOR ALL DOAS SUPPLY GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
7	TYPICAL FOR ALL DOAS EXHAUST GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
8	ALL GREYED OUT OR LIGHT LINEWORK SYSTEMS AND EQUIPMENT ARE EXISTING TO REMAIN. EXISTING DOAS SUPPLY AND EXHAUST DUCTWORK ARE SHOWN IN HEAVY LINE WEIGHTS FOR CLARITY. - TYPICAL



Whole Building Systems LLC
 P.O. Box 1845
 Mt. Pleasant, South Carolina
 29465
 PH: (843) 637-3358
 Wholebuildingystems.com



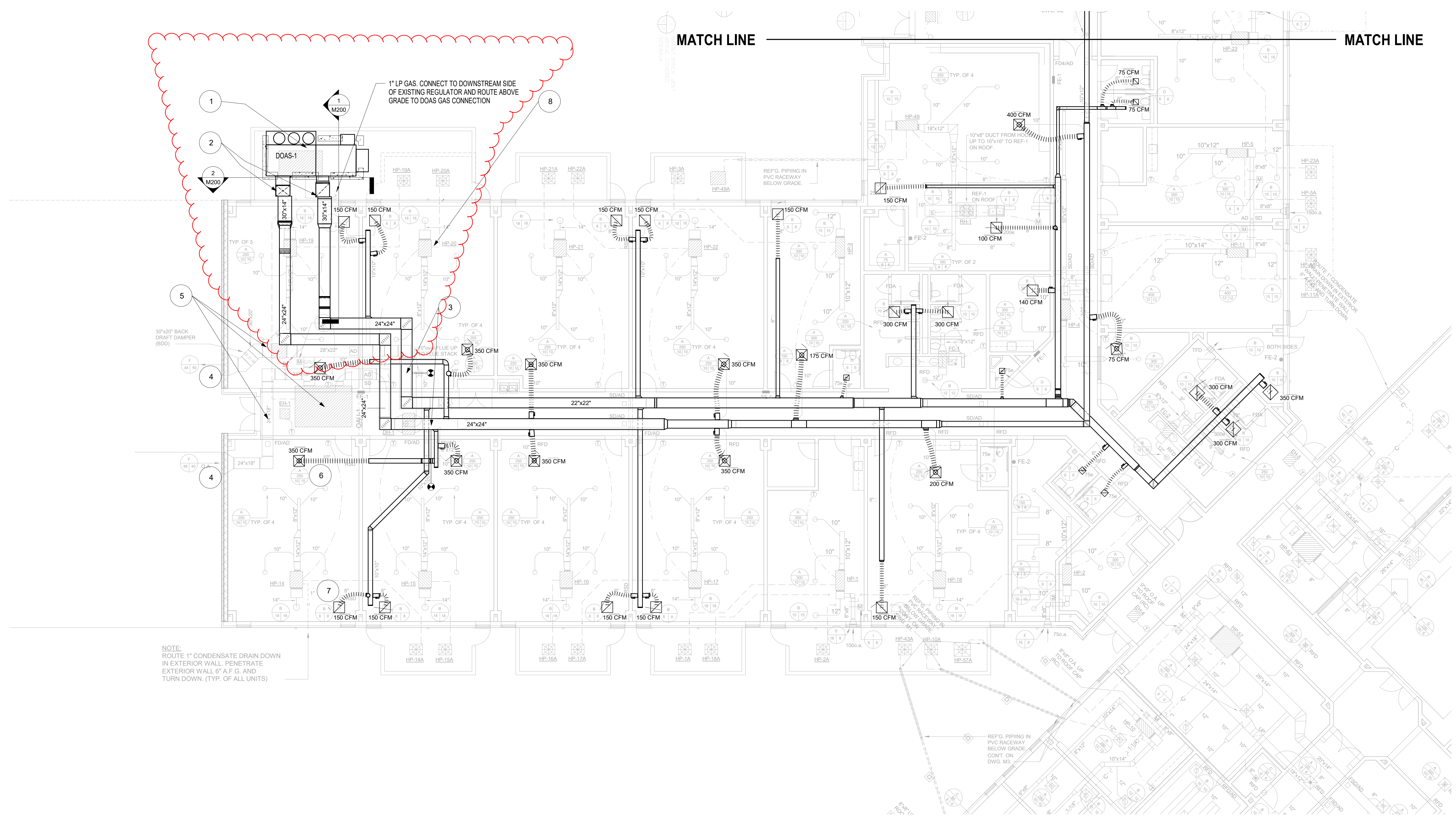
**LORIS ELEMENTARY
 SCHOOL MAU
 REPLACEMENT**
 901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001
 DATE: 11/09/2021
 DESIGNED BY: MDK
 DRAWN BY: BRW
 CHECKED BY: MDK

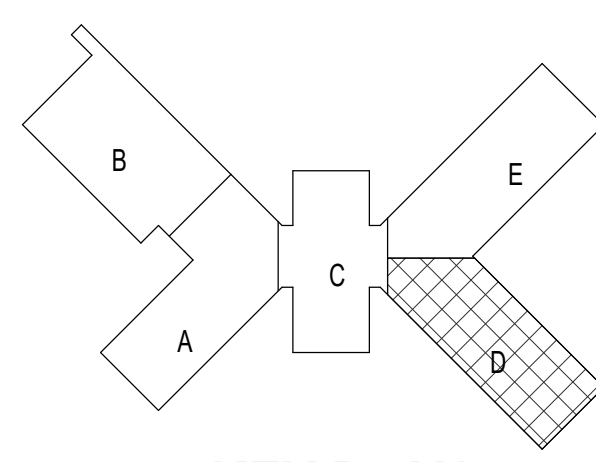
REVISIONS		
NO.	DATE	NOTES
1	3/11/22	ADDENDUM #1

AREA-A - NEW WORK

M101



1 AREA-A - NEW WORK
 1/8" = 1'-0"

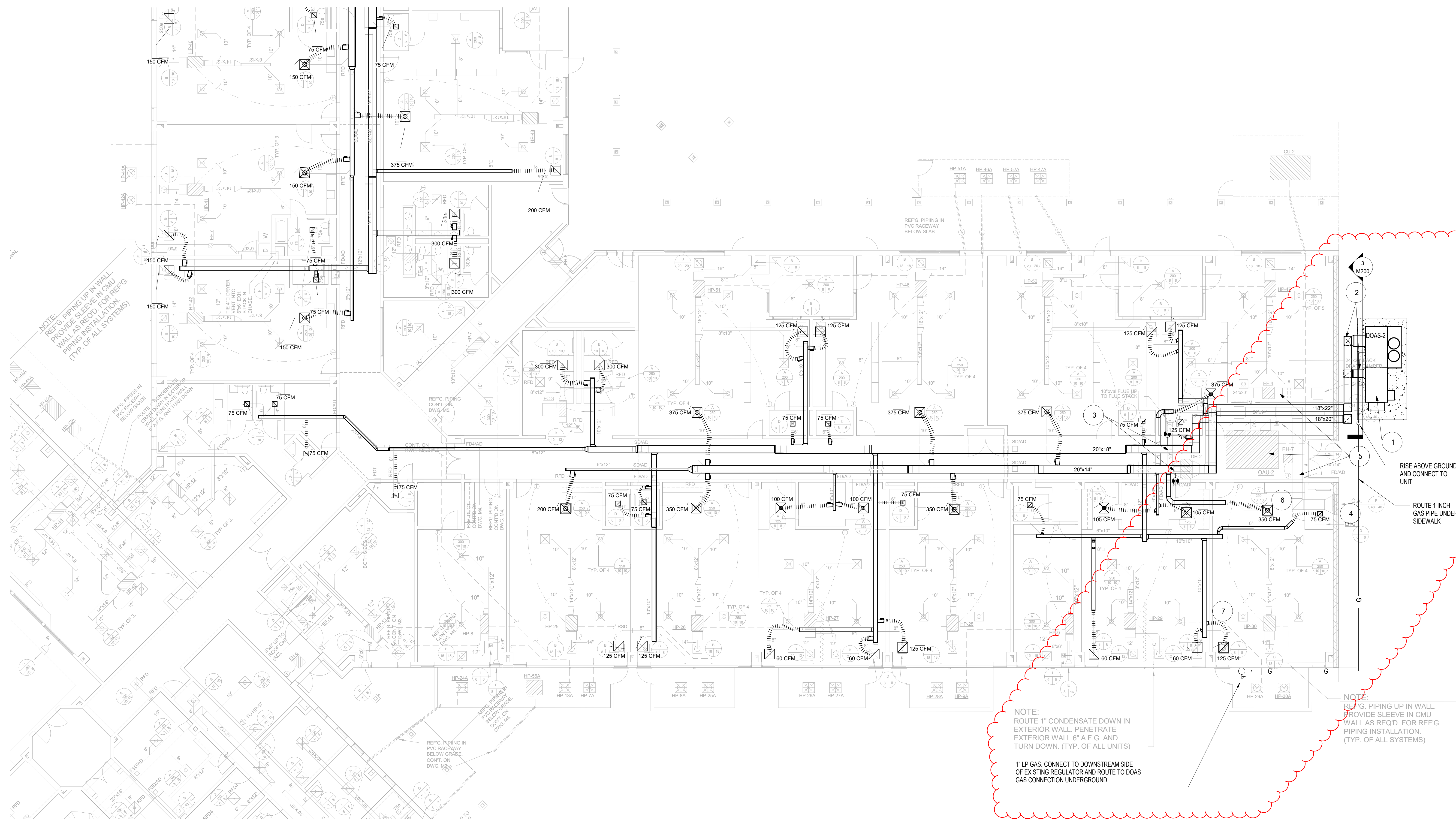


KEY PLAN

NEW WORK GENERAL NOTE

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE

New Work Keynotes	
Number	New Work Keynote Text
1	INSTALL NEW UNIT ON NEW EQUIPMENT PAD. EQUIPMENT PAD SHALL BE 12" LARGER ALL AROUND THAN NEW UNIT PROVIDED. PIPE CONDENSATE AWAY FROM UNIT TO PROVIDE PROPER DRAINAGE.
2	NEW DUCT SHALL BE INSULATED AND WRAPPED WITH WEATHERPROOF ALUMINUM JACKET. SUPPORT DUCT TO EXTERIOR WALL AND SEAL AROUND WALL OPENINGS WHERE DUCT PENETRATES INTO BUILDING.
3	TIE NEW DUCT INTO EXISTING DUCT
4	BLANK-OFF EXISTING LOUVER. BLANK-OFF SHALL INCLUDE 2" POLYISO INSULATION 100% ADHERED TO SHEETMETAL.
5	EXISTING DUCT AND EQUIPMENT SHOWN FOR REFERENCE ONLY.
6	TYPICAL FOR ALL DOAS SUPPLY GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
7	TYPICAL FOR ALL DOAS EXHAUST GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
8	ALL GREYED OUT OR LIGHT LINWORK SYSTEMS AND EQUIPMENT ARE EXISTING TO REMAIN. EXISTING DOAS SUPPLY AND EXHAUST DUCTWORK ARE SHOWN IN HEAVY LINE WEIGHTS FOR CLARITY. - TYPICAL



NOTE:
REF'G. PIPING UP IN WALL.
PROVIDE SLEEVE IN WALL.
WALL AS REQ'D FOR REF'G.
PIPING INSTALLATION. (TYP. OF ALL SYSTEMS)

NOTE:
ROUTE 1" CONDENSATE DOWN IN
EXTERIOR WALL. PENETRATE
EXTERIOR WALL 6" A.F.C. AND
TURN DOWN. (TYP. OF ALL UNITS)

1" LP GAS. CONNECT TO DOWNSTREAM SIDE
OF EXISTING REGULATOR AND ROUTE TO DOAS
GAS CONNECTION UNDERGROUND

NOTE:
REF'G. PIPING UP IN WALL.
PROVIDE SLEEVE IN CMU
WALL AS REQ'D. FOR REF'G.
PIPING INSTALLATION.
(TYP. OF ALL SYSTEMS)

**LORIS ELEMENTARY
SCHOOL MAU
REPLACEMENT**
901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001
DATE: 11/09/2021
DESIGNED BY: MDK
DRAWN BY: BRW
CHECKED BY: MDK

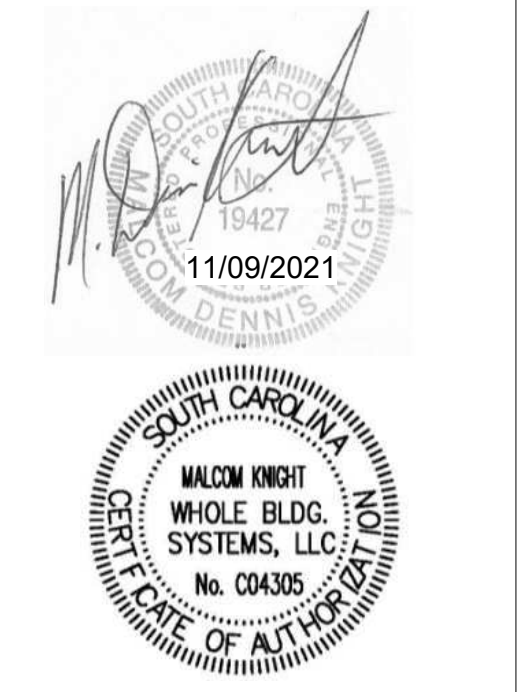
REVISIONS		
NO.	DATE	NOTES
1	3/11/22	ADDENDUM #1

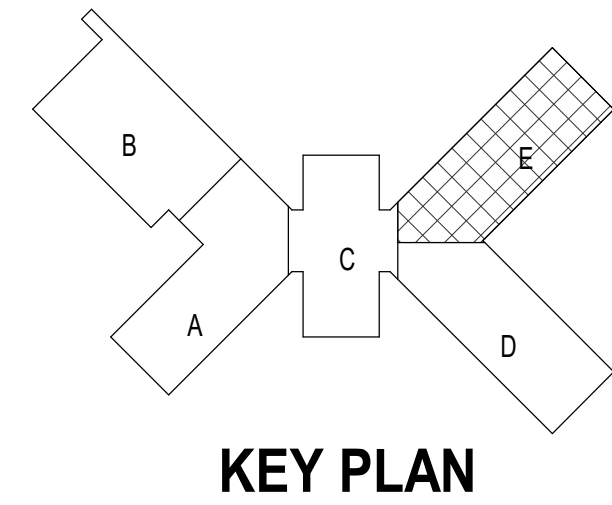
AREA-D - NEW WORK

M103



Whole Building Systems LLC
P.O. Box 1845
Mt. Pleasant, South Carolina
29465
PH: (843) 637-3358
Wholebuildingystems.com

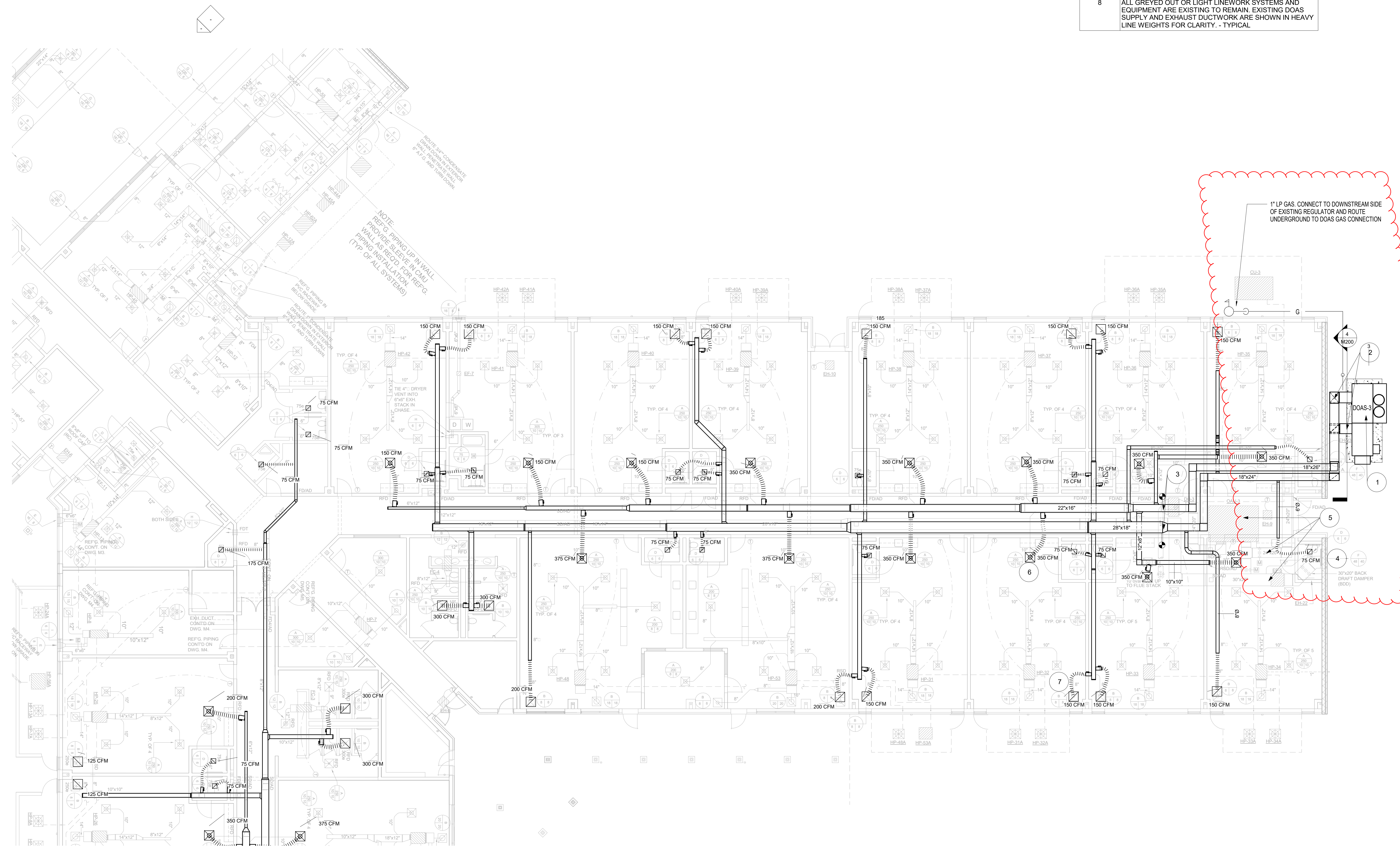




NEW WORK GENERAL NOTE

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE

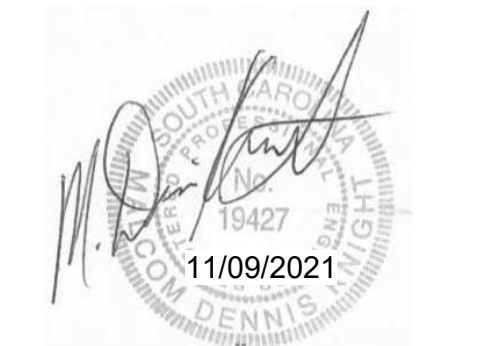
New Work Keynotes	
Number	New Work Keynote Text
1	INSTALL NEW UNIT ON NEW EQUIPMENT PAD. EQUIPMENT PAD SHALL BE 12" LARGER ALL AROUND THAN NEW UNIT PROVIDED. PIPE CONDENSATE AWAY FROM UNIT TO PROVIDE PROPER DRAINAGE.
2	NEW DUCT SHALL BE INSULATED AND WRAPPED WITH WEATHERPROOF ALUMINUM JACKET. SUPPORT DUCT TO EXTERIOR WALL AND SEAL AROUND WALL OPENINGS WHERE DUCT PENETRATES INTO BUILDING.
3	TIE NEW DUCT INTO EXISTING DUCT
4	BLANK-OFF EXISTING LOUVER. BLANK-OFF SHALL INCLUDE 2" POLYISO INSULATION 100% ADHERED TO SHEETMETAL.
5	EXISTING DUCT AND EQUIPMENT SHOWN FOR REFERENCE ONLY.
6	TYPICAL FOR ALL DOAS SUPPLY GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
7	TYPICAL FOR ALL DOAS EXHAUST GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
8	ALL GREYED OUT OR LIGHT LINEWORK SYSTEMS AND EQUIPMENT ARE EXISTING TO REMAIN. EXISTING DOAS SUPPLY AND EXHAUST DUCTWORK ARE SHOWN IN HEAVY LINE WEIGHTS FOR CLARITY - TYPICAL



1 AREA-E - NEW WORK
1/8" = 1'-0"



Whole Building Systems LLC
P.O. Box 1845
Mt. Pleasant, South Carolina
29465
PH: (843) 637-3358
Wholebuildingystems.com



**LORIS ELEMENTARY
SCHOOL MAU
REPLACEMENT**
901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001
DATE: 11/09/2021
DESIGNED BY: MDK
DRAWN BY: BRW
CHECKED BY: MDK

REVISIONS		
NO.	DATE	NOTES
1	3/11/22	ADDENDUM #1

AREA-E - NEW WORK

M104