

PROJECT 50003278

USC-AIKEN RUTH PATRICK CLASSROOM

RENOVATIONS

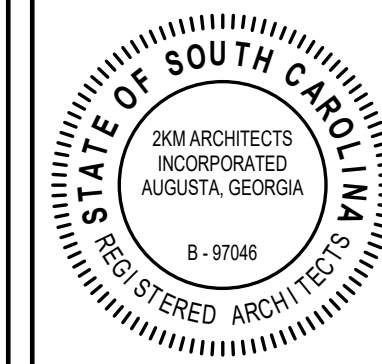
USC AIKEN

471 UNIVERSITY PKWY, AIKEN, SC 29801



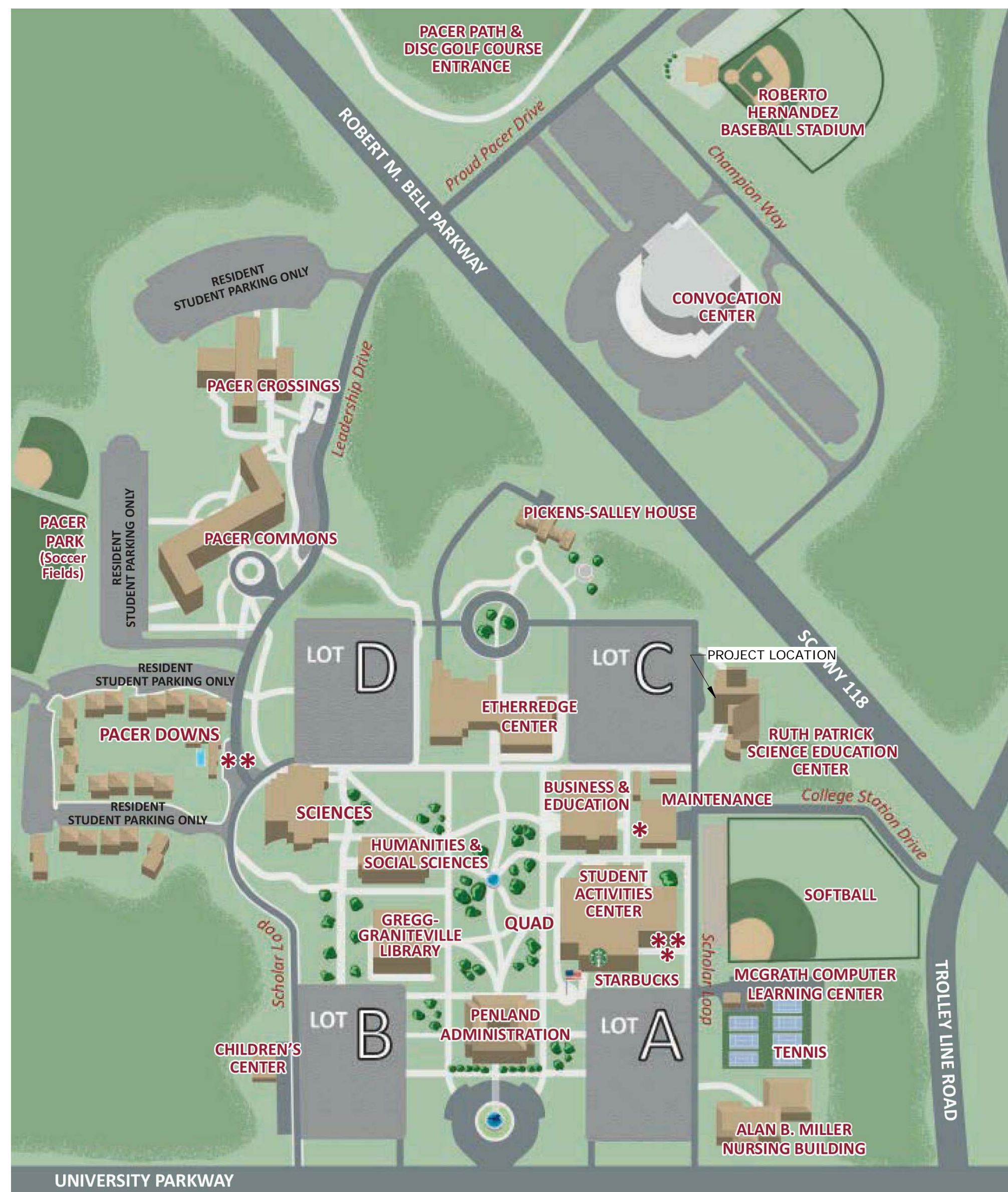
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02/19/2018

ADD ALTERNATE #1:
INSTALLED WORK ASSOCIATED WITH LEVEL 2 CLASSROOMS



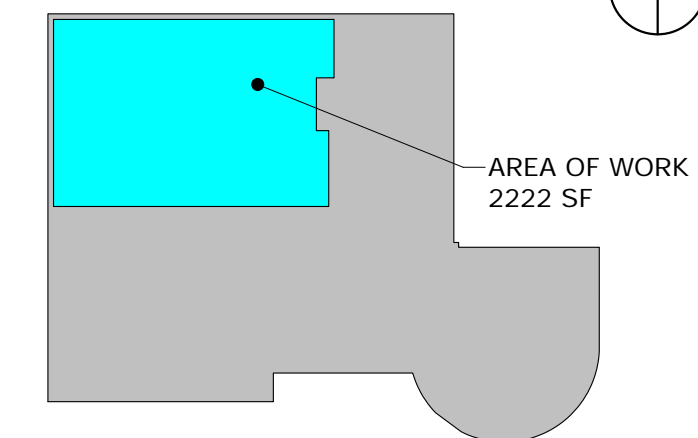
PROJECT SCOPE:

MINOR INTERIOR RENOVATION OF EXISTING CLASSROOMS & OFFICES

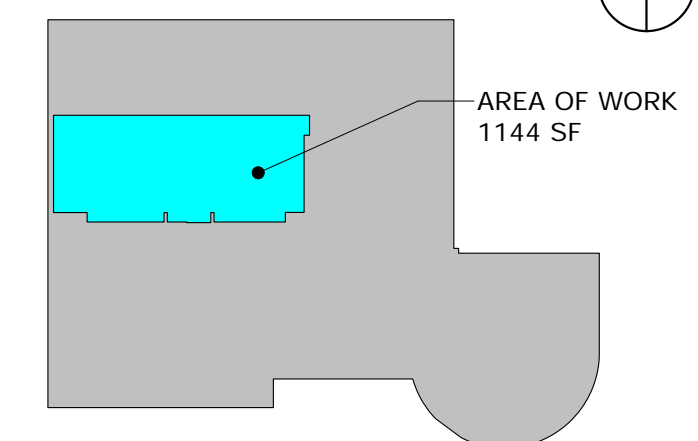
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KEY PLAN: FIRST FLOOR



KEY PLAN: SECOND FLOOR



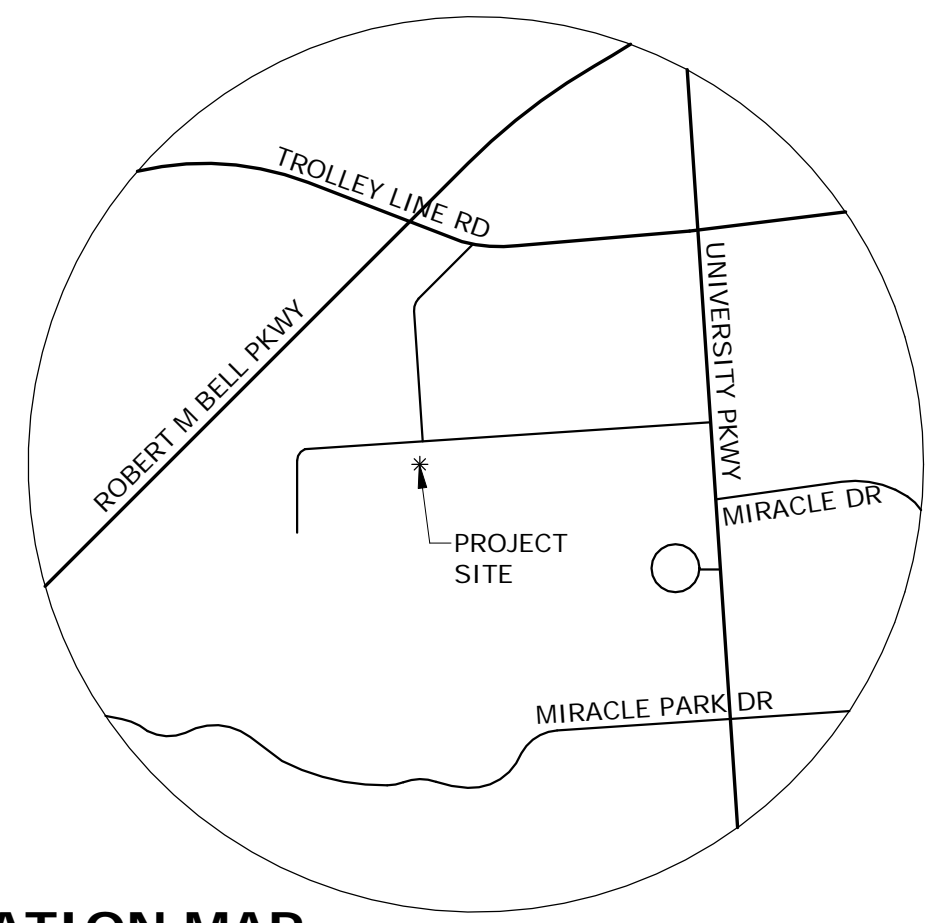
REVISIONS:	
Date	Description

GENERAL LEGEND

1	DRAWING TITLE	1	DETAIL SYMBOL	DETAIL NUMBER	CROSS REFERENCE SHT #
SCALE:		9'-0" A.F.F.		ELEVATION MARKER	
1	EXTERIOR ELEVATION SYMBOL	DETAIL NUMBER	CROSS REFERENCE SHT #	STORAGE	ROOM NAME
1	INTERIOR ELEVATION SYMBOL	DETAIL NUMBER	CROSS REFERENCE SHT #	109	ROOM NUMBER
1	SECTION SYMBOL	DETAIL NUMBER	CROSS REFERENCE SHT #	X	DOOR NUMBER
					WINDOW TYPE

ABBREVIATIONS

A	AMPERAGE	E.S.	EACH SIDE	LGMF	LIGHT GAUGE METAL	SIM	SIMILAR
A/C	AIR CONDITIONER	EW	ELECTRICAL WATER	M.O.	MASONRY OPENING	S.P.	STATIC PRESSURE
A.F.F.	ABOVE FINISH FLOOR	EXP.	EXPANSION	M/R	MOISTURE RESISTANT	S.S.	STAINLESS STEEL
ALT.	ALTERNATE	EXT.	EXTERIOR	MTL	METAL	STD.	STANDARD
AL	ALUMINUM	F.D.	FLOOR DRAIN	NEC	NATIONAL ELECTRICAL CODE	STL	STEEL
@	AT	FEC.	FIRE EXTINGUISHER	O.A.	OUTSIDE AIR	STR.	STRUCTURAL
A.T.	ACOUSTICAL TILE	F.F.L.	FINISH FLOOR LEVEL	O.C.	ON CENTER	TEMP.	TEMPERED
AWG.	AVERAGE WIRE GAUGE	FIN.	FINISH	O.D.	OUTSIDE DIAMETER	T/	TOP
BD.	BOARD	FLR.	FLOOR	O.H.	OVERHEAD	T/F	TOP OF FOOTING
BOT. B/	BOTTOM	FT.	FOOT	P	POLE	THOLD.	THRESHOLD
BRG.	BEARING	F.V.	FIELD VERIFY	PCPL	PORTLAND CEMENT PLASTER	T/J	TOP OF JOIST
BTUH	BRITISH THERMAL UNIT/ HOUR	G.	GROUND	PL.	PLATE	THOLD.	THRESHOLD
B.W.	BOTH WAYS	GA.	GAUGE	PLAM	PLASTIC LAMINATE	TYP.	TYPICAL
CARP.	CARPET	G.C.	GENERAL	PLYWD.	PLYWOOD	U.N.O.	UNLESS NOTED OTHERWISE
CFM	CUBIC FEET PER MINUTE	GPDW	GYPSUM DRYWALL	P.T.	PRESSURE TREATED	VCT	VINYL COMPOSITION TILE
CJ.	CONSTRUCTION JOINT	GPM	GALLONS PER MINUTE	PVC.	POLY VINYL CHLORIDE		
CL	CLEARANCE	H/C	HANDICAP	Q.T.	QUARRY TILE		
CL	CLEARANCE	H.M.	HOLLOW METAL	R.	RADIUS	W/	WITH
CONT.	CONTINUOUS	H.P.	HORSE POWER	R.C.P.	REINFORCED CONCRETE PIPE	W/O	WITHOUT
C.T.	CERAMIC TILE	H.V.	HOLLOW METAL	R.D.	ROOF DRAIN	WD.	WOOD
DIA.	DIAMETER	HVAC	HEAT'G, VENT'G & AIR COND.	RDL.	ROOF DRAIN LINE	WM	WATER METER
DN	DOWN	I.D.	INSIDE DIAMETER	REF.	REFERENCE	W/P	WATERPROOF
DTL.	DETAIL	INSUL.	INSULATION	REF.	REFERENCE	WV	WATER VALVE
E.C.	ELECTRICAL CONDUIT	INT.	INTERIOR	RPM.	REVOLUTIONS PER MINUTE	W.W.F.	WELDED WIRE FABRIC
EF.	EXHAUST FAN	IN.W.C.	INCHES OF WATER COLUMN	S.C.	SOLID CORE		
EPT.	ENAMEL PAINT	JT.	JOINT	S.H.	SPRINKLER HEAD		
E.W.	EACH WAY			SHT.	SHEET		



LOCATION MAP

CAMPUS MAP

ARCHITECT: **ROBERT L. MAULDIN, NCARB, AIA**

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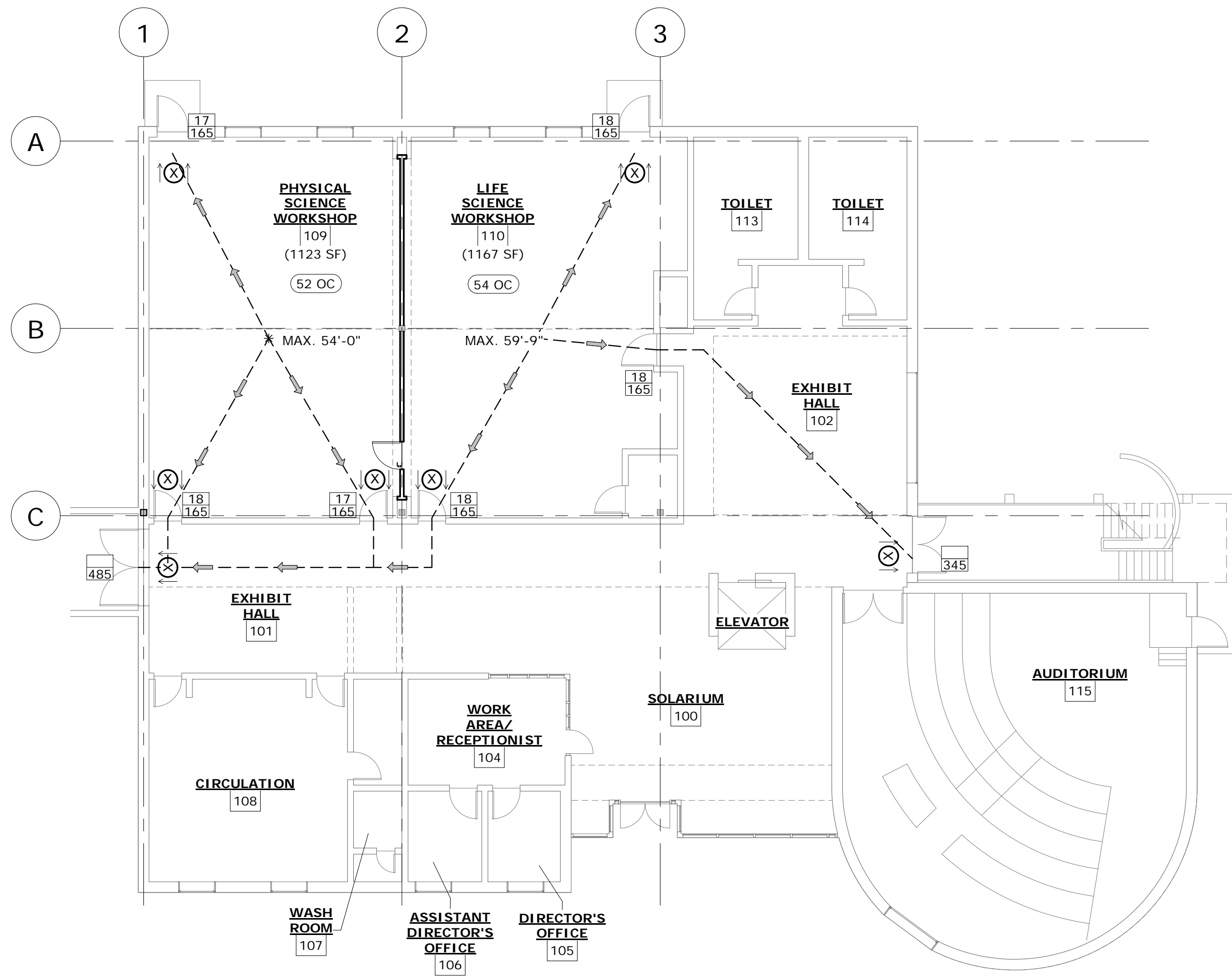
ING Consulting, Inc.
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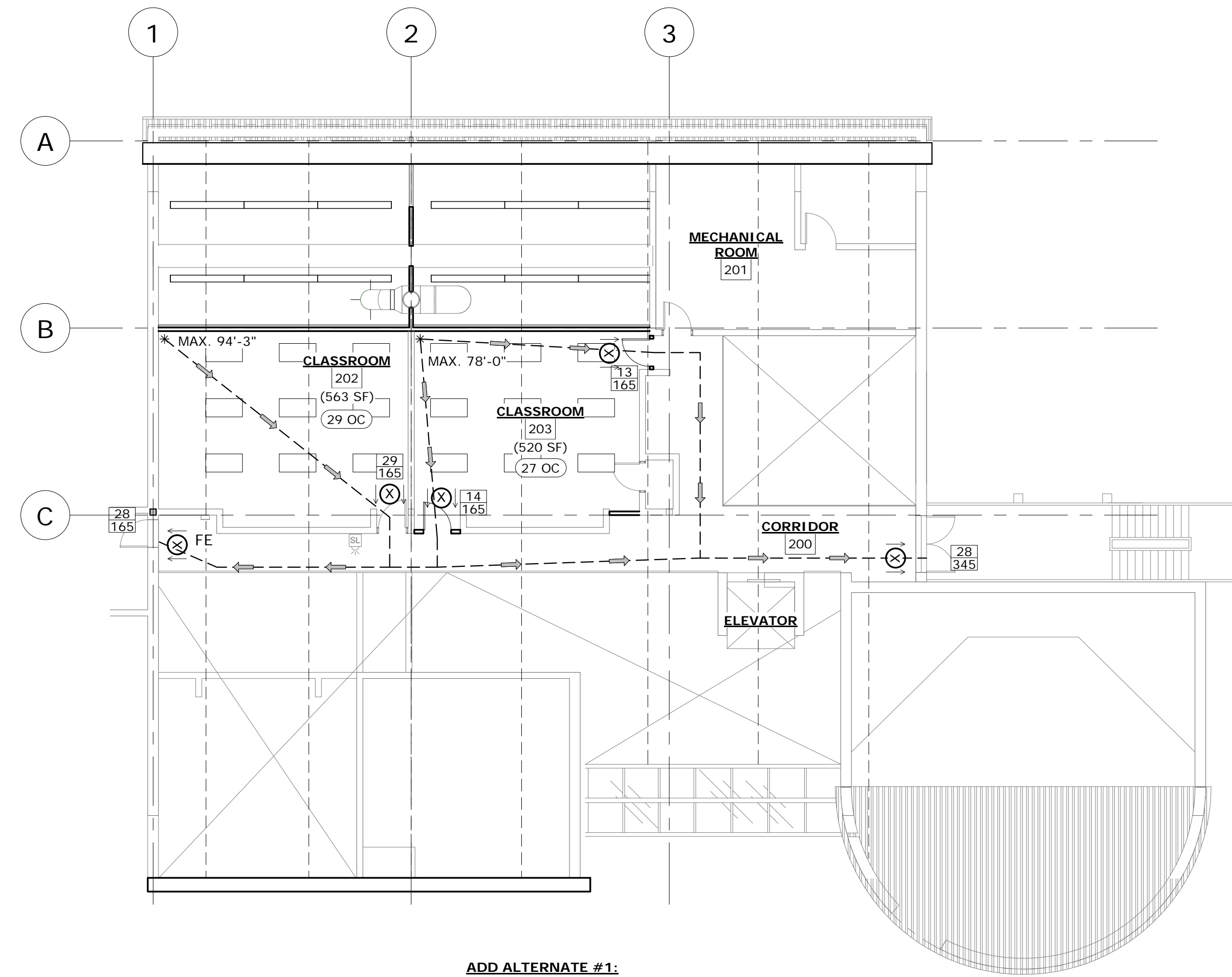
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PROJECT 50003278
USC-AIKEN RUTH PATRICK CLASSROOM RENOVATIONS
FOR
USC AIKEN
471 UNIVERSITY PKWY, AIKEN, SC 29801

DRAWING TITLE		INDEX	
PROJECT NO.	17-17	DRAWING NO.	GO.1
DATE	02-19-2018		
DRAWN BY	RS		
PAPER	24"x36"		
ISSUE	CD		



1 FIRST FLOOR EGRESS PLAN
SCALE: 3/32" = 1'-0"



2 SECOND FLOOR EGRESS PLAN
SCALE: 3/32" = 1'-0"

CODE ANALYSIS

- A. PROJECT SCOPE SUMMARY:**
- THE PURPOSE OF THIS PROJECT IS TO CREATE A SEPARATE SOUND ATTENUATED CLASSROOMS ON THE FIRST FLOOR AND TO REPURPOSE 2ND FLOOR AREAS FROM STORAGE TO CLASSROOMS.
 - THE MAJORITY OF THE AREA OF WORK IS TO ADD SOUND WALL, CREATE CLASSROOM SEPARATION.
 - NEITHER EXISTING BUILDING OCCUPANCY NOR EXISTING COMPONENTS OF MEANS OF EGRESS ARE AFFECTED BY THE WORK.
- B. GROSS RENOVATION AREA:**
- | | |
|------------------|---------------|
| 1. AREA AFFECTED | B. 3,366 S.F. |
|------------------|---------------|
- C. OCCUPANCY (NFPA 101-2012)**
- | | |
|---------------------------|-------------------------|
| 1. CLASSIFICATION (6.1.5) | C.1. EXISTING CLASSROOM |
|---------------------------|-------------------------|
- D. CONSTRUCTION (NFPA 101-2012)**
- | | |
|--|---|
| 1. NUMBER OF FLOORS | D.1. TWO (EXISTING) |
| 2. TYPE OF CONSTRUCTION (TABLE 19.1.6.1) | D.2. TYPE II (222), NONE SPRINKLED (NFPA 101 - TABLE 20/21.3) |
| 3. OCCUPANT LOAD (AFFECTED AREA) (TABLE 7.3.1.2) | D.3. BY AREA = 42 OCCUPANTS
BY USE = 44 OCCUPANTS
3051 (BUSINESS) / 100 = 31
2989 (INPATIENT TREATMENT) / 240 = 13 |
- E. MEANS OF EGRESS (NFPA 101-2012)**
- | | |
|--|---|
| 1. CLEAR CORRIDOR WIDTH (18.2.3.4) | E.1. NOT AFFECTED (EXISTING = 96") |
| 2. DOORS IN THE MEANS OF EGRESS (18.2.3.7) | E.2. 32" CLR MIN. |
| 3. STAIRS | E.3. NOT AFFECTED |
| 4. FIRE BARRIERS (TABLE 18.3.2.1) | E.4. NOT AFFECTED |
| 5. ARRANGEMENT OF MEAN OF EGRESS | E.5. NOT AFFECTED |
| 6. DEAD END CORRIDOR LIMIT (TBL. A.7.6) | E.6. NOT AFFECTED |
| 7. TRAVEL DISTANCE TO EXITS (TBL. A.7.6) (200' MAX, SPRINKLERED) | E.7. NOT AFFECTED (156'-0" FROM MOST REMOTE POINT IN A ROOM TO AN EXIT) |
- F. PROTECTION FROM HAZARDS (18.3.2)**
- | |
|-----------------|
| F. NOT AFFECTED |
|-----------------|
- G. SPRINKLERS (NFPA 101-2012)**
- | |
|--------|
| G. N/A |
|--------|
- H. FIRE ALARMS (NFPA 101-2012)**
- | |
|-------------|
| H. EXISTING |
|-------------|
- J. PORTABLE FIRE EXTINGUISHERS (NFPA 101-2012)**
- | |
|-------------|
| J. PROVIDED |
|-------------|
- K. OCCUPANCY CLASSIFICATION AND HAZARD OF CONTENTS (NFPA 101-2012)**
- | |
|---|
| K. CLASSROOM / EDUCATIONAL (6.2.2.3)/ ORDINARY HAZARD |
|---|
- L. CONSTRUCTION TYPE (IBC 2012/ NFPA 101-2012)**
- | |
|--|
| L. IBC = TYPE 1-B (TBL-601)
NFPA = TYPE II (222) (TBL.18.1.6.1) AND (TBL A.8.2.1.2) |
|--|
- M. INTERIOR FINISH (TBL A10.2.2)**
- | | |
|-----------------------------------|-------------------|
| 1. EXITS - CLASS A OR B | M.1. NOT AFFECTED |
| 2. ACCESS TO EXITS - CLASS A OR B | M.2. NOT AFFECTED |
| 3. OTHER SPACES - CLASS A OR B | M.3. NOT AFFECTED |
| 4. FLOOR FINISH - CLASS I OR II | M.4. NOT AFFECTED |

APPLICABLE CODE W/ SOUTH CAROLINA AMENDMENTS

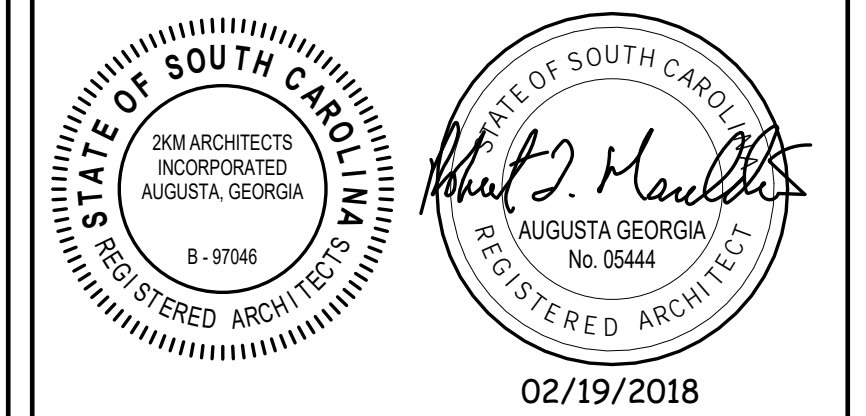
IBC 2015	INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA MODIFICATIONS.
IECC 2009	INTERNATIONAL ENERGY CONSERVATION CODE.
IFC 2015	INTERNATIONAL FIRE CODE WITH SOUTH CAROLINA MODIFICATIONS.
IFGC 2015	INTERNATIONAL FUEL GAS CODE WITH SOUTH CAROLINA MODIFICATIONS.
IMC 2012	INTERNATIONAL MECHANICAL CODE.
IPC 2012	INTERNATIONAL PLUMBING CODE.
IRC 2012	INTERNATIONAL RESIDENTIAL CODE (2014, 2015 AMENDMENTS)
NFPA 70 2014	NATIONAL ELECTRIC CODE (NEC) (PER 120-3-3) (PER DCA)

LEGEND:

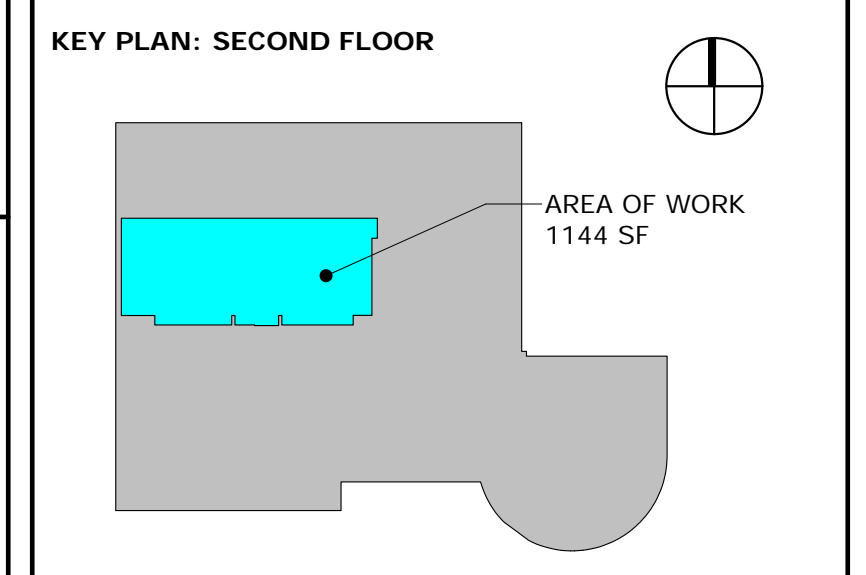
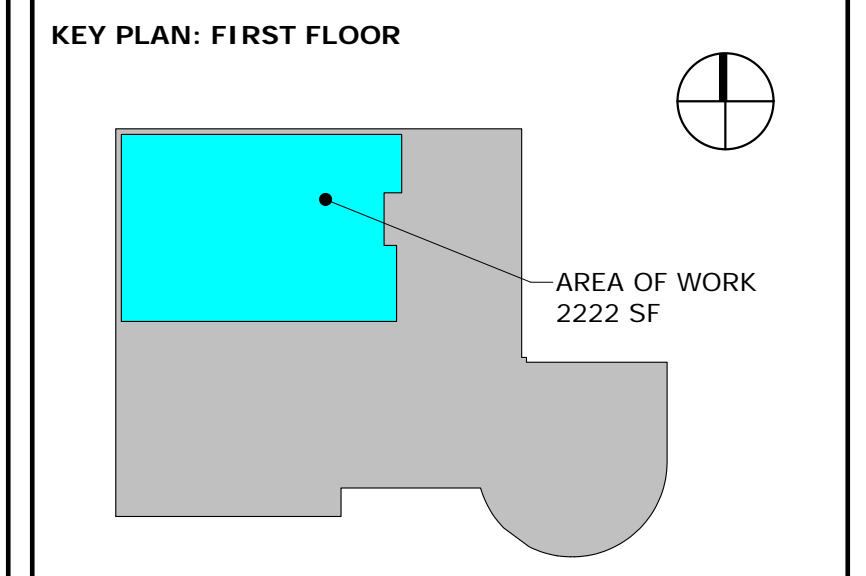
- 1-HOUR RATED
- S- SMOKE PARTITION
- 2-HOUR RATED
- *--- MAX TRAVEL DISTANCE / PATH
- 28 ← ACTUAL NUMBER OF OCCUPANTS
- 165 ← CAPACITY OF DOOR OR EXIT
- 32 OC ← NUMBER OF OCCUPANTS
- ⊗ EXIT SIGNS
- F FIRE ALARM PULL
- H HORN
- SL FIRE ALARM STROBE LIGHT W/ BATTERY PACK
- SD SMOKE DETECTOR
- FE □ FIRE EXTINGUISHER



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ADD ALTERNATE #1:
INSTALLED WORK ASSOCIATED WITH LEVEL 2 CLASSROOMS



REVISIONS:

Date	Description

PROJECT 50003278
USC-AIKEN RUTH PATRICK CLASSROOM RENOVATIONS
FOR
USC AIKEN
471 UNIVERSITY PKWY, AIKEN, SC 29801

DRAWING TITLE
EGRESS PLAN & CODE ANALYSIS

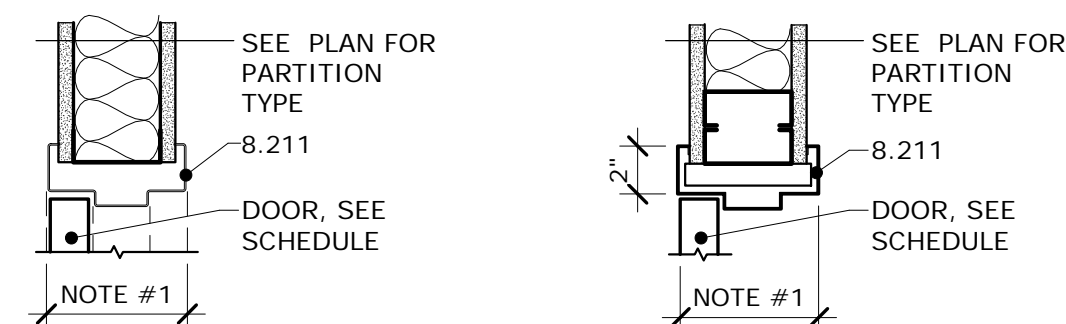
PROJECT NO.	17-17	DRAWING NO.	GO.2
DATE	02-19-2018		
DRAWN BY	RS		
PAPER	24"x36"		
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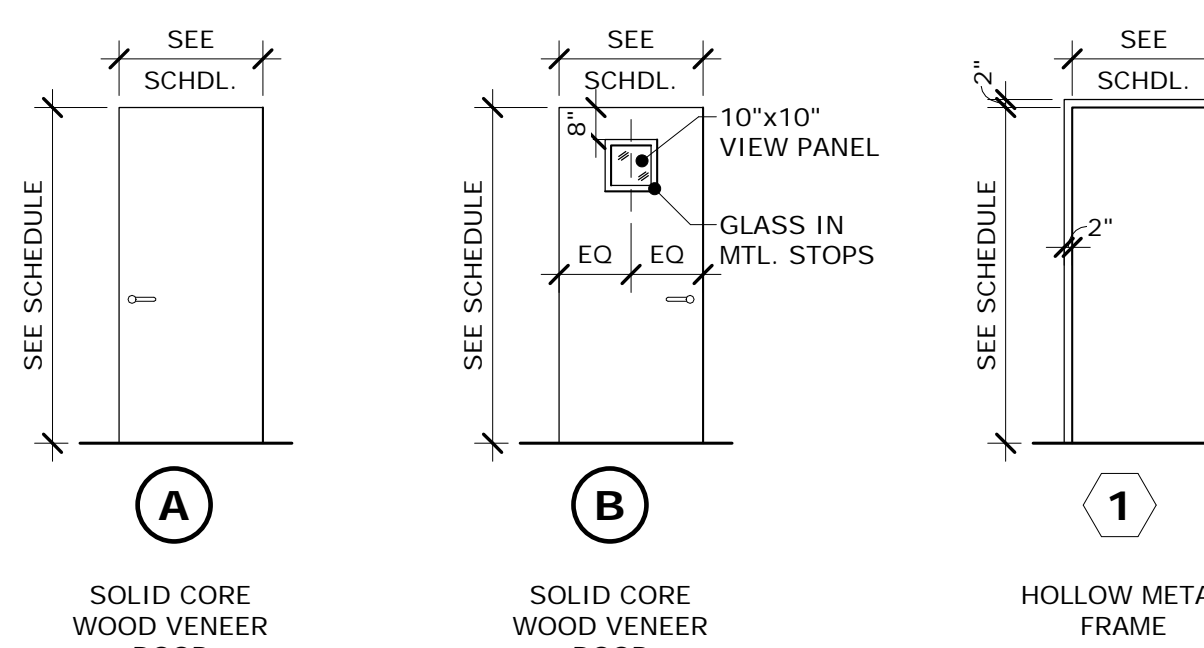
DOOR AND FRAME TYPES



1 HEAD DETAIL 2 JAMB DETAIL

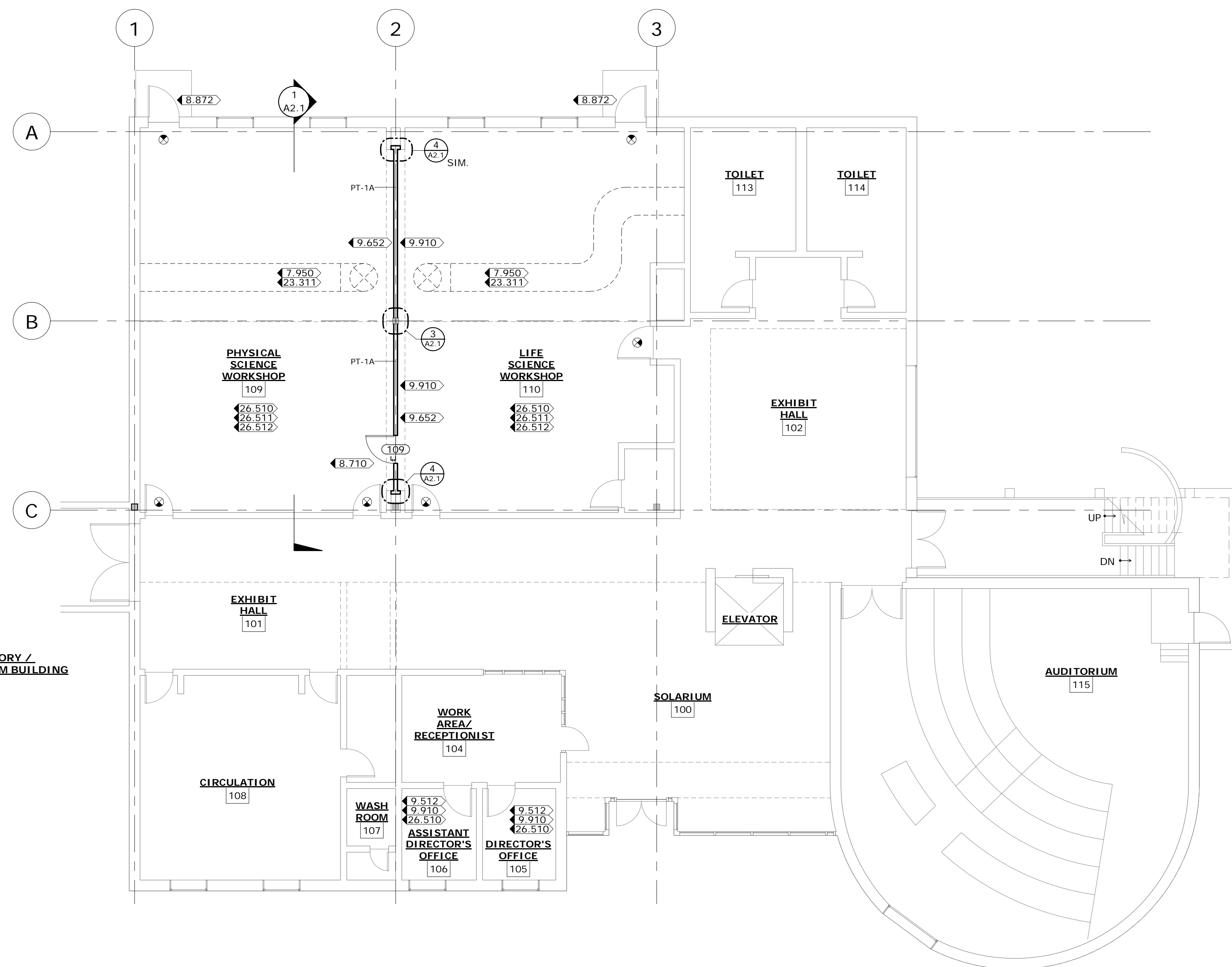
- NOTES:**
- 6" FRAME FOR 3 5/8" LGMF.
8 1/2" FRAME FOR 6" LGMF.
SEE PARTITION TYPES FOR SIZE.
 - ADD TO FRAME SIZE WHERE MULTIPLE LAYERS OF GPDW ARE INDICATED ON PARTITION TYPES.

DOOR AND FRAME TYPES



DOOR SCHEDULE

DOOR NO.	DOOR					GLASS		FRAME		FRAME DETAILS			LABEL	SET	REMARKS
	WIDTH	HEIGHT	THICK	B	FINISH	SIZE	G. TYPE	F. TYPE	MATERIAL	HEAD	JAMB	SILL			
109	3'-0"	7'-0"	1 3/4"	B	STAIN	10x10	TEMP.	1	H.M.	1	2	-	-	1	
201A	3'-0"	7'-0"	1 3/4"	A	STAIN	-	-	1	H.M.	1	2	-	-	2	ADD ALT. #1
201B	3'-0"	7'-0"	1 3/4"	A	STAIN	-	-	1	H.M.	1	2	-	-	2	ADD ALT. #1

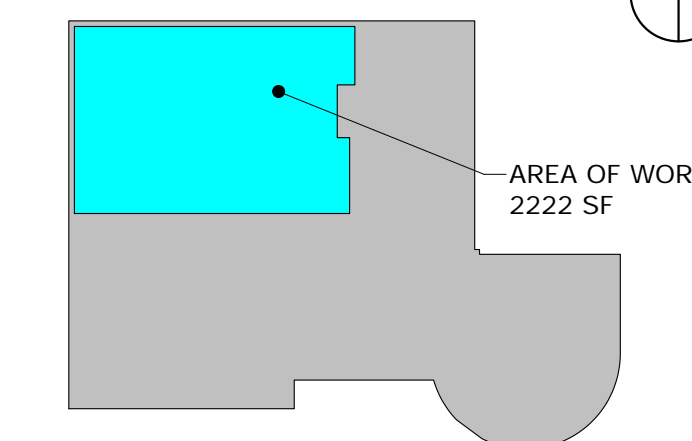


1 FIRST FLOOR PLAN - NEW WORK PLAN

A2.1 SCALE: 1/8" = 1'-0"

NOTE:
EXISTING VCT TO REMAIN

KEY PLAN:



REVISIONS:

Date	Description

**PROJECT 50003278
USC-AIKEN RUTH
PATRICK
CLASSROOM
RENOVATIONS**

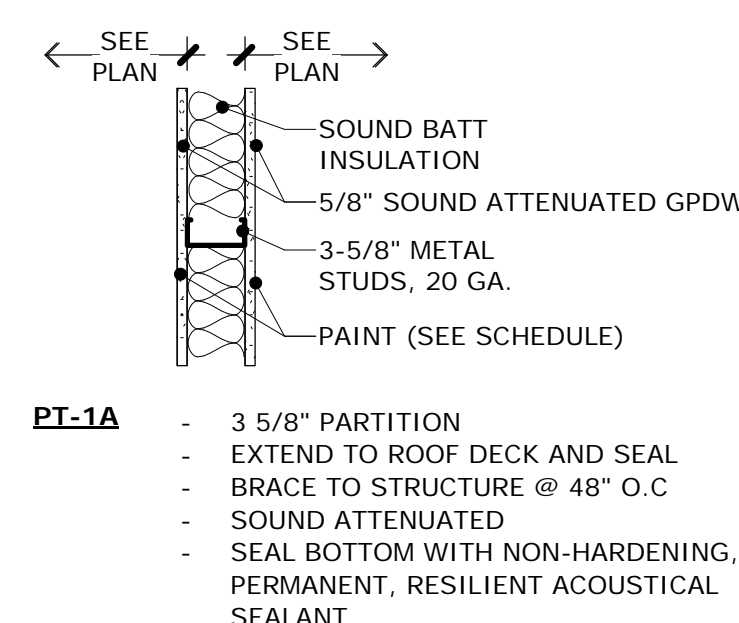
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**FIRST FLOOR PLAN -
NEW WORK PLAN**

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PAPER	24"x36"	A1.1	
ISSUE	CD		

PARTITION TYPES



FINISH SCHEDULE - LEVEL 1

ROOM NO.	SPACE	FLOOR	BASE	WALLS	CEILING	CLG. HT.	NOTES
109	PHYSICAL SCIENCE WORKSHOP	-	A	1	-	EXIS.	NEW WALL TO MATCH EXISTING
110	LIFE SCIENCE WORKSHOP	-	A	1	-	EXIS.	NEW WALL TO MATCH EXISTING

MATERIAL SCHEDULE

FLOOR	WALLS
	1 PRIME & PAINT (EGGSHELL), 2 FINISH COATS
	2 PRIME & PAINT (SEMI-GLOSS), 2 FINISH COATS
BASE	CEILINGS
A 4" RUBBER	A SOUND ACOUSTICAL TILE CEILING

CONSTRUCTION NOTES

DIVISION 7 - THERMAL & MOISTURE PROTECTION

7.950 ACCOUSTICAL SEAL AROUND SUPPLY & RETURN DUCTS.

DIVISION 8 - DOORS & WINDOWS

8.710 INSTALL NEW DOOR & FRAME AND LEVER HARDWARE.
8.872 INSTALL NEW REFLECTIVE SOLAR FILM ON DOOR GLASS.

DIVISION 9 - FINISHES

9.512 REPLACE EXISTING ATC TILE WITH NEW ATC TILE.
9.652 INSTALL NEW 4" COVERED RUBBER BASE ON NEW WALLS. (MATCH EXISTING COLOR)
9.910 PRIME AND PAINT GPDW OR CMU WALLS, DOOR FRAMES, & TRIM. CLEAN ALL PAINT SURFACES W/ SYNTHETIC TSP SOLUTION FOR NEW PAINT SURFACE PREPARATION.

DIVISION 23 - HVAC

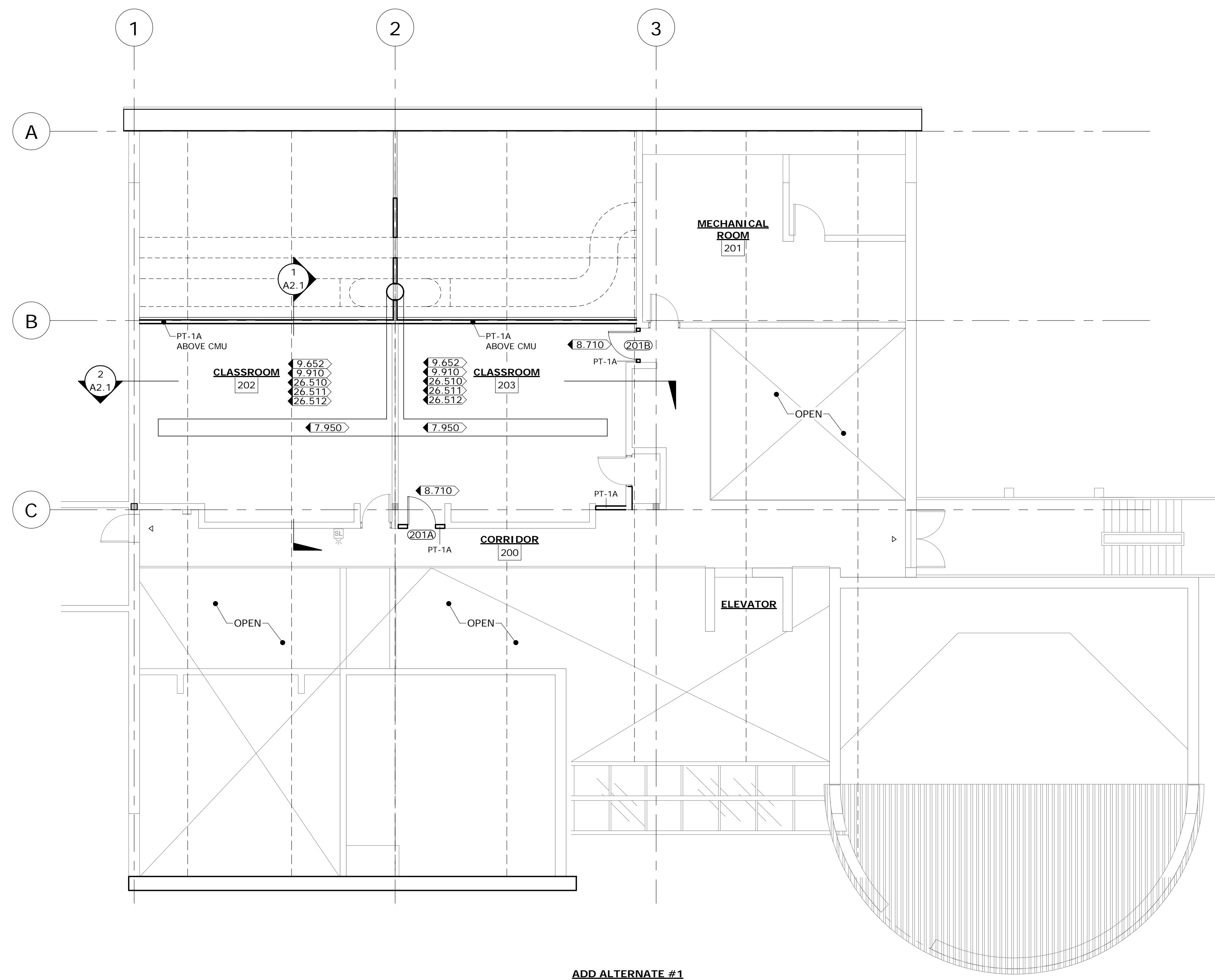
23.311 REWORK DUCTS ON SUPPLY IN ROOM #109.

DIVISION 26 - ELECTRICAL

26.510 RELAMP OR REPLACE FIXTURES FOR LED PER ELECTRICAL PLANS.
26.511 ADD NOTIFICATION DEVICES IN SPACE.
26.512 ADD EGRESS LIGHTING ABOVE DOOR.



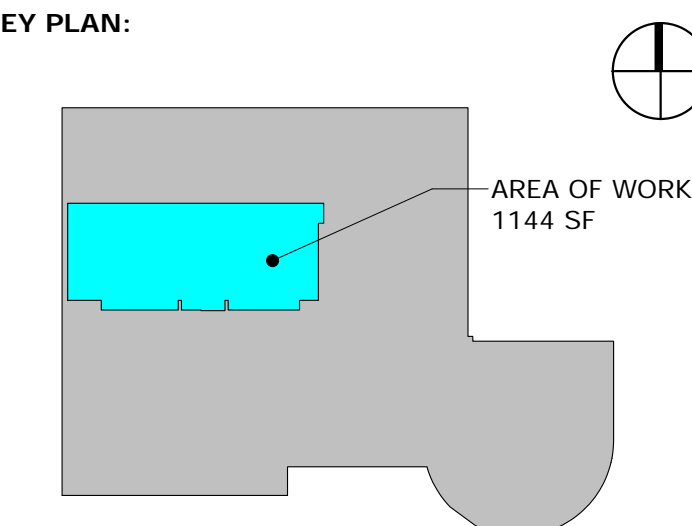
ADD ALTERNATE #1:
INSTALLED WORK ASSOCIATED WITH LEVEL 2 CLASSROOMS



ADD ALTERNATE #1

1 SECOND FLOOR PLAN - ADD ATL. #1
A2.1 SCALE: 1/8" = 1'-0"

KEY PLAN:



REVISIONS:

Date	Description

PROJECT 50003278

USC-AIKEN RUTH PATRICK CLASSROOM RENOVATIONS

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USC AIKEN

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SECOND FLOOR PLAN - ADD ALTERNATE #1

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DATE	02-19-2018		
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PAPER	24"x36"		
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A1.2

FINISH SCHEDULE - LEVEL 2

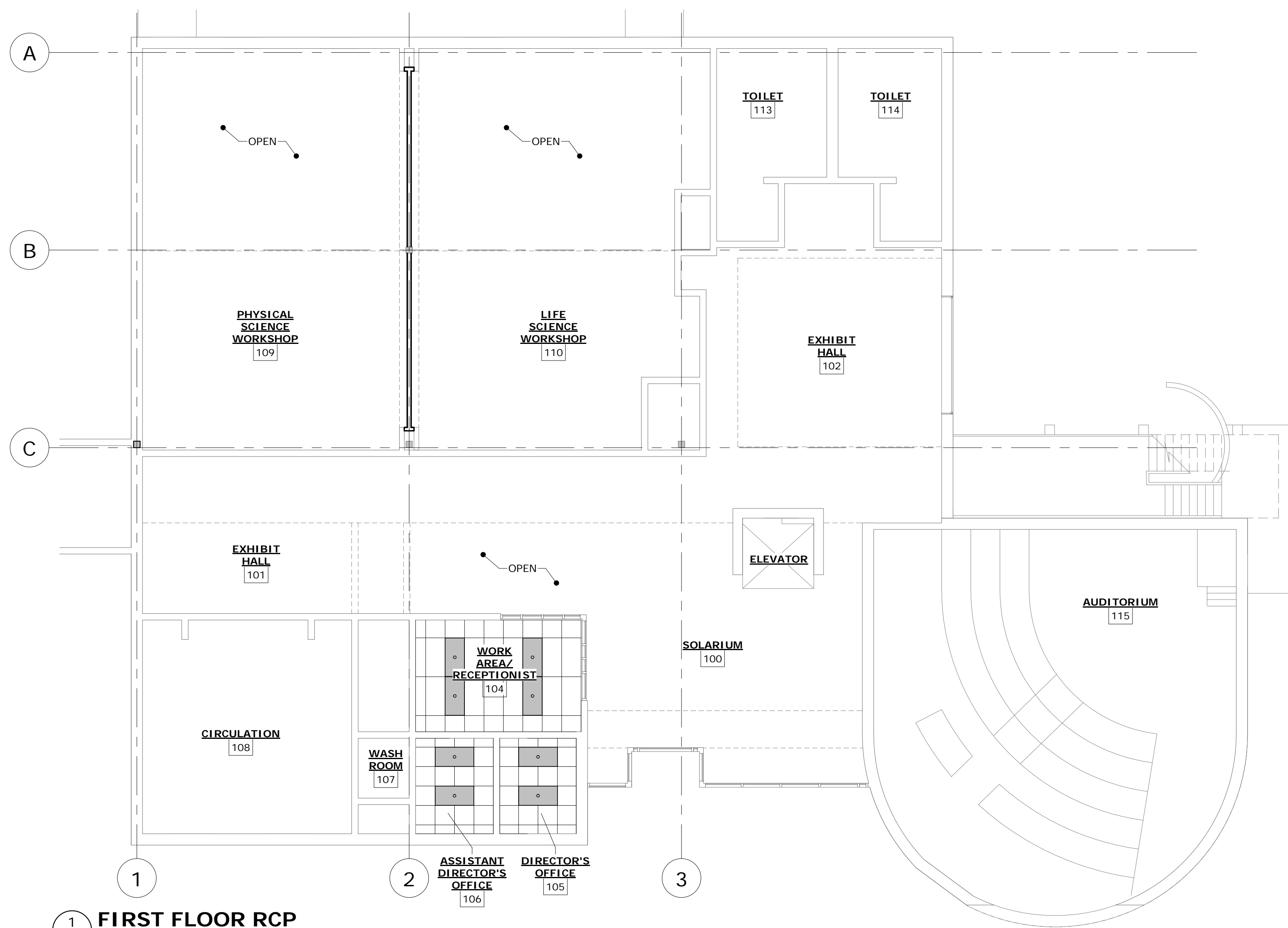
ROOM NO.	SPACE	FLOOR	BASE	WALLS	CEILING	CLG. HT.	NOTES
202	CLASSROOM	-	A	1	A	9'-4"	
203	CLASSROOM	-	A	1	A	9'-4"	

MATERIAL SCHEDULE

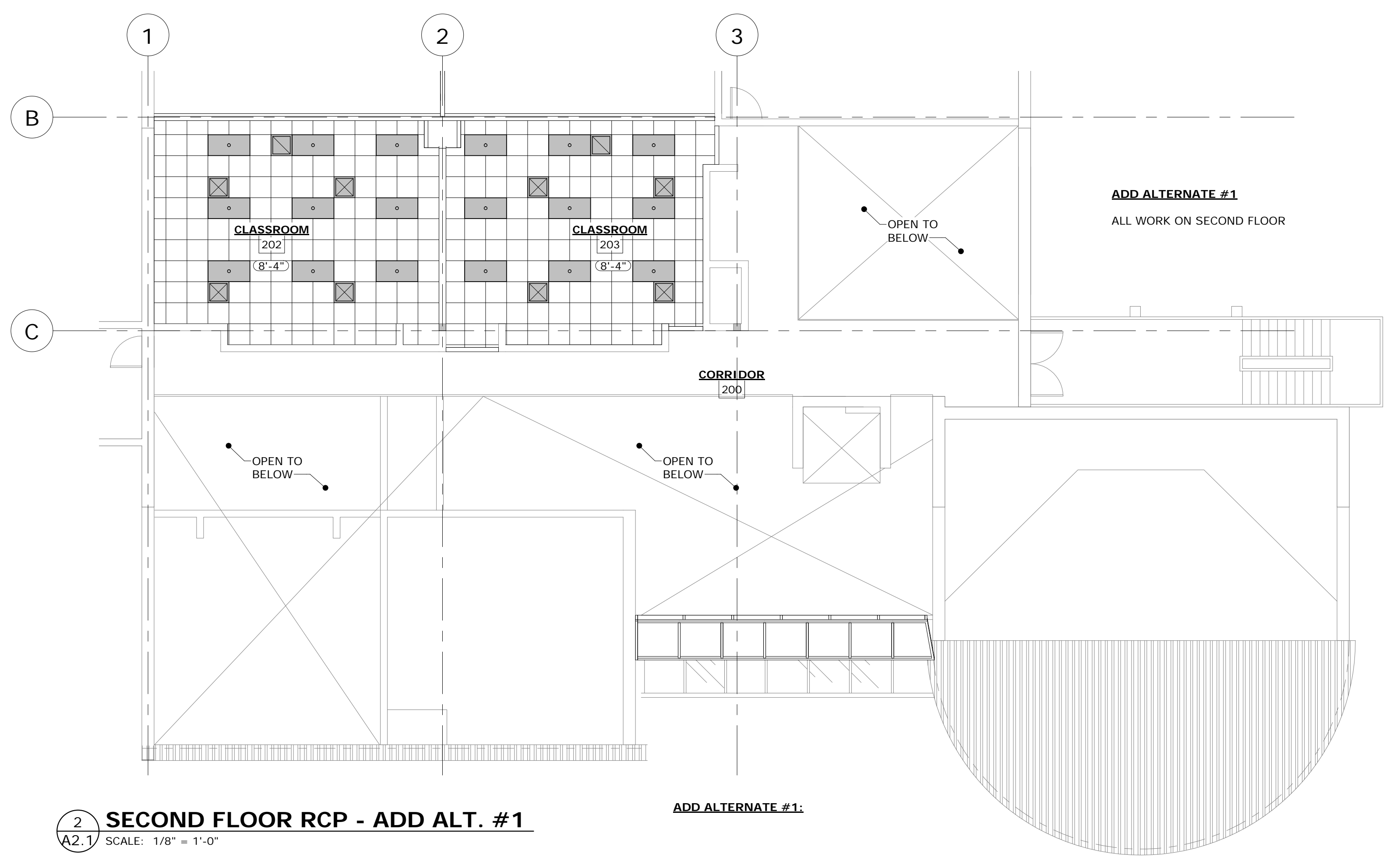
FLOOR		WALLS	
		1	PRIME & PAINT (EGGSHELL), 2 FINISH COATS
		2	PRIME & PAINT (SEMI-GLOSS), 2 FINISH COATS
BASE		CEILINGS	
A	4" RUBBER	A	SOUND ACCOUSTICAL TILE CEILING

CONSTRUCTION NOTES

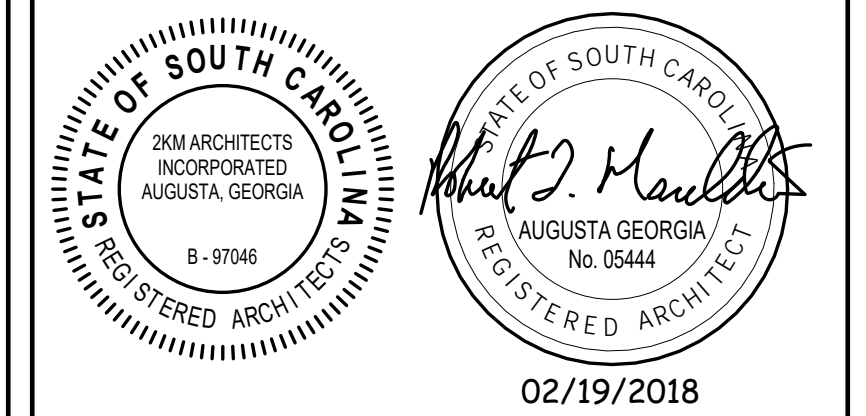
- DIVISION 7 - THERMAL & MOISTURE PROTECTION**
 ◀7.950> ACCOUSTICAL SEAL AROUND SUPPLY & RETURN DUCTS.
- DIVISION 8 - DOORS & WINDOWS**
 ◀8.710> INSTALL NEW DOOR & FRAME AND LEVER HARDWARE.
 ◀8.872> INSTALL NEW REFLECTIVE SOLAR FILM ON DOOR GLASS.
- DIVISION 9 - FINISHES**
 ◀9.512> REPLACE EXISTING ATC TILE WITH NEW ATC TILE.
 ◀9.652> INSTALL NEW 4" COVERED RUBBER BASE ON NEW WALLS. (MATCH EXISTING COLOR)
 ◀9.910> PRIME AND PAINT GPDW OR CMU WALLS, DOOR FRAMES, & TRIM. CLEAN ALL PAINT SURFACES W/ SYNTHETIC TSP SOLUTION FOR NEW PAINT SURFACE PREPARATION.
- DIVISION 23 - HVAC**
 ◀23.311> REWORK DUCTS ON SUPPLY IN ROOM #109.
- DIVISION 26 - ELECTRICAL**
 ◀26.510> RELAMP OR REPLACE FIXTURES FOR LED PER ELECTRICAL PLANS.
 ◀26.511> ADD NOTIFICATION DEVICES IN SPACE.
 ◀26.512> ADD EGRESS LIGHTING ABOVE DOOR.



- RCP LEGEND:**
- NEW 2X2 ACOUSTICAL CEILING TILE & SUSPENDED GRID
 - GPDW CEILING/ BULKHEAD
 - 2 X 4 LIGHT FIXTURE TYPE "A"
 - EXISTING WALL OUTLINE
 - NEW CEILING OUTLINE
 - HVAC SUPPLY DIFFUSER
 - HVAC RETURN GRILLE
 - EXISTING HVAC RETURN GRILLE
 - EXIT LIGHT
 - LINEAL LIGHT FIXTURE
 - EMERGENCY EXIT LIGHT W/ NICAD BATTERY
 - EXIT W/ BUG EYE LED LAMPS W/ NICAD BATTERY
 - SMOKE DETECTORS, CEILING MOUNTED, 120V, W/ 9V BATTER BACKUP SYNCHRONIZED.
 - EXIST'G FIRE PULL



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KEY PLAN:

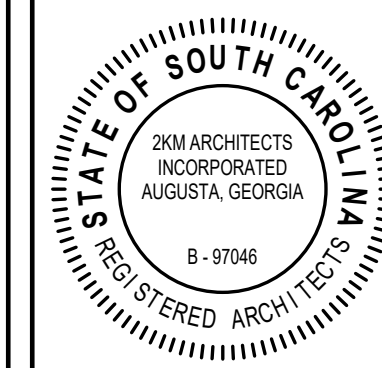
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USC-AIKEN RUTH PATRICK CLASSROOM RENOVATIONS
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DRAWING TITLE
REFLECTED CEILING PLAN

PROJECT NO.	17-17	DRAWING NO.	A1.3
DATE	02-19-2018		
DRAWN BY	RS		
PAPER	24"x36"		
ISSUE	CD		

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ADD ALTERNATE #1:
INSTALLED WORK ASSOCIATED WITH LEVEL 2 CLASSROOMS

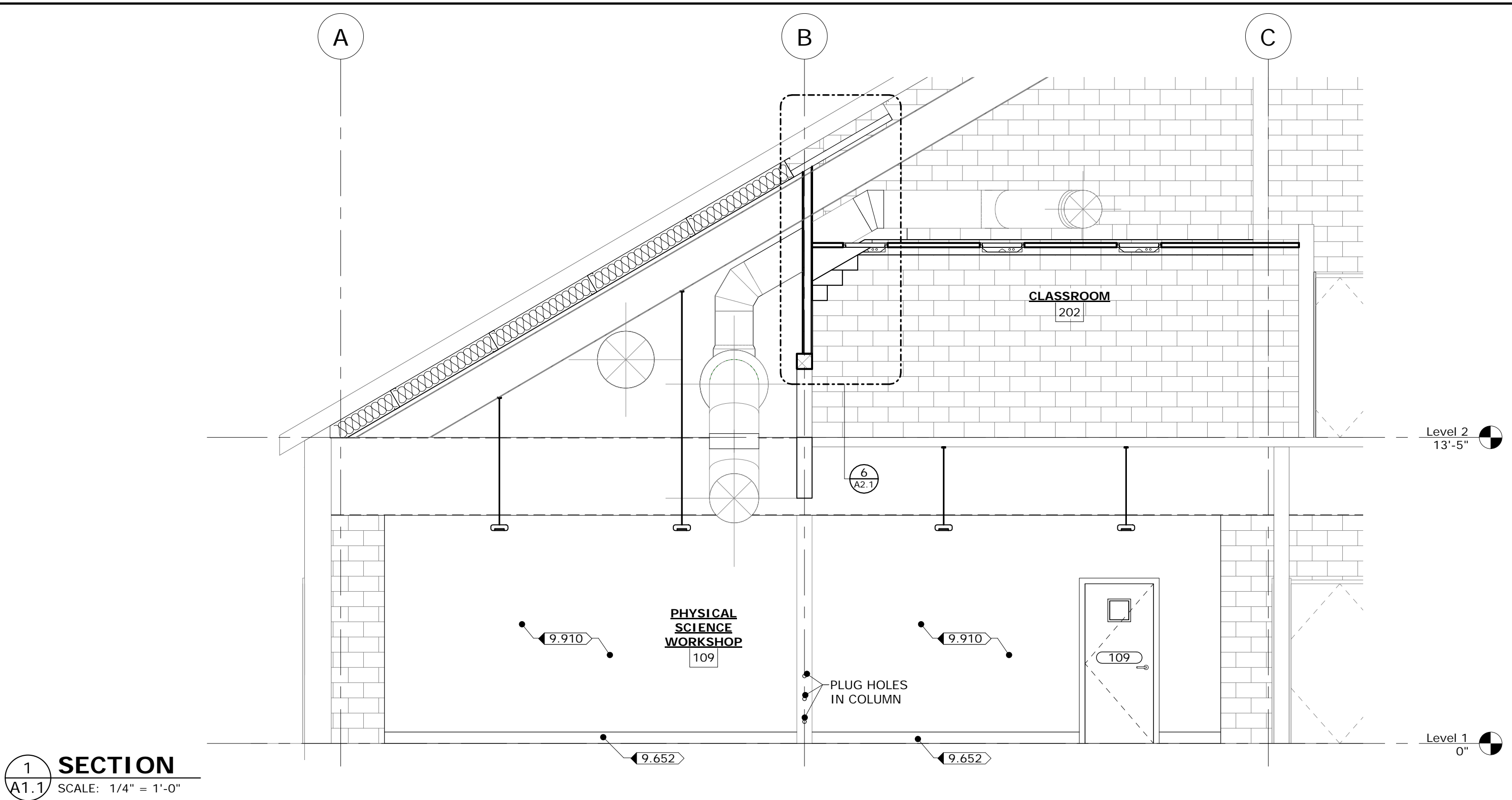
KEY PLAN:

REVISIONS:	
Date	Description

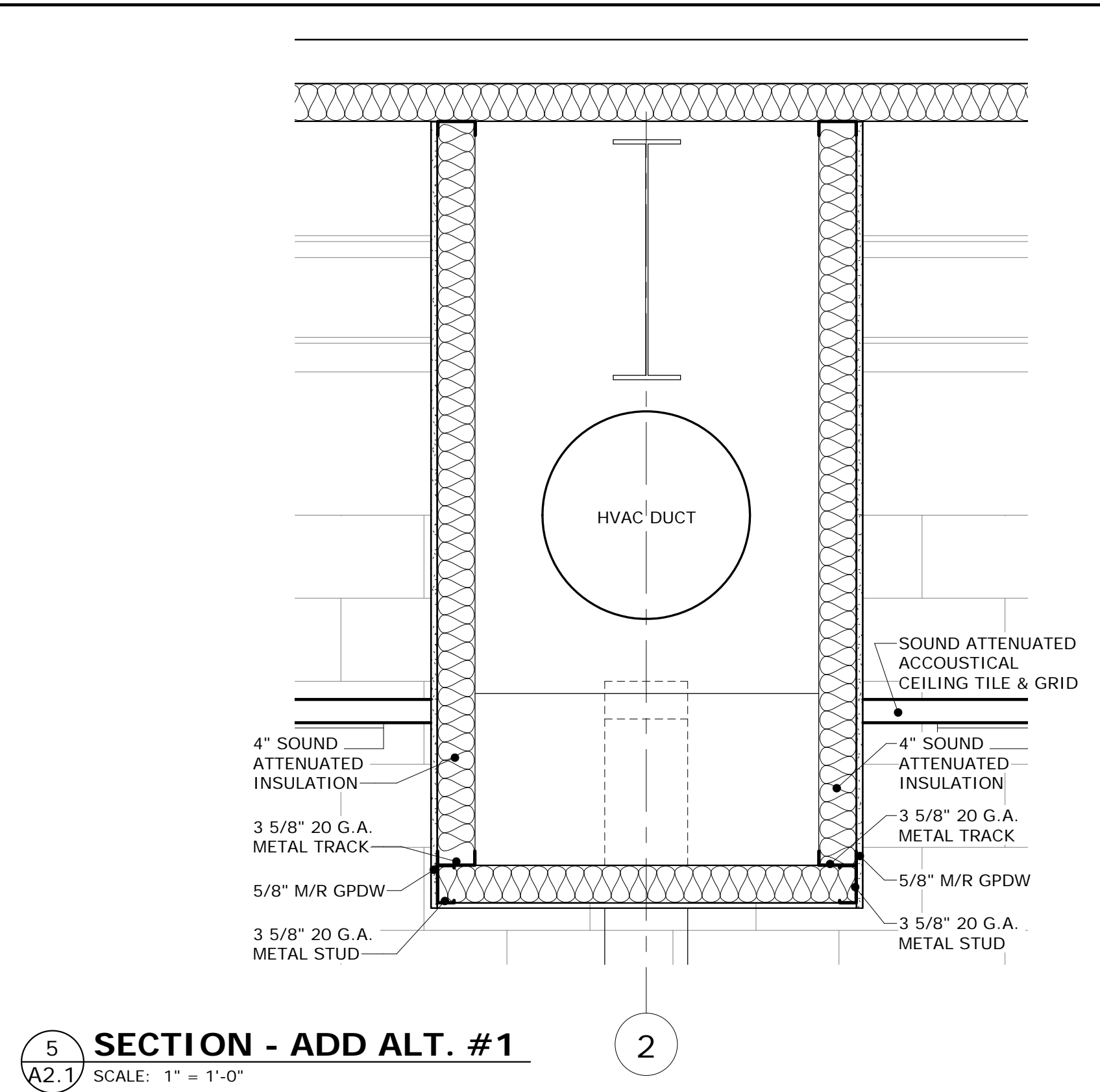
PROJECT 50003278
USC-AIKEN RUTH PATRICK CLASSROOM RENOVATIONS
FOR
USC AIKEN
471 UNIVERSITY PKWY, AIKEN, SC 29801

DRAWING TITLE
SECTIONS & DETAILS

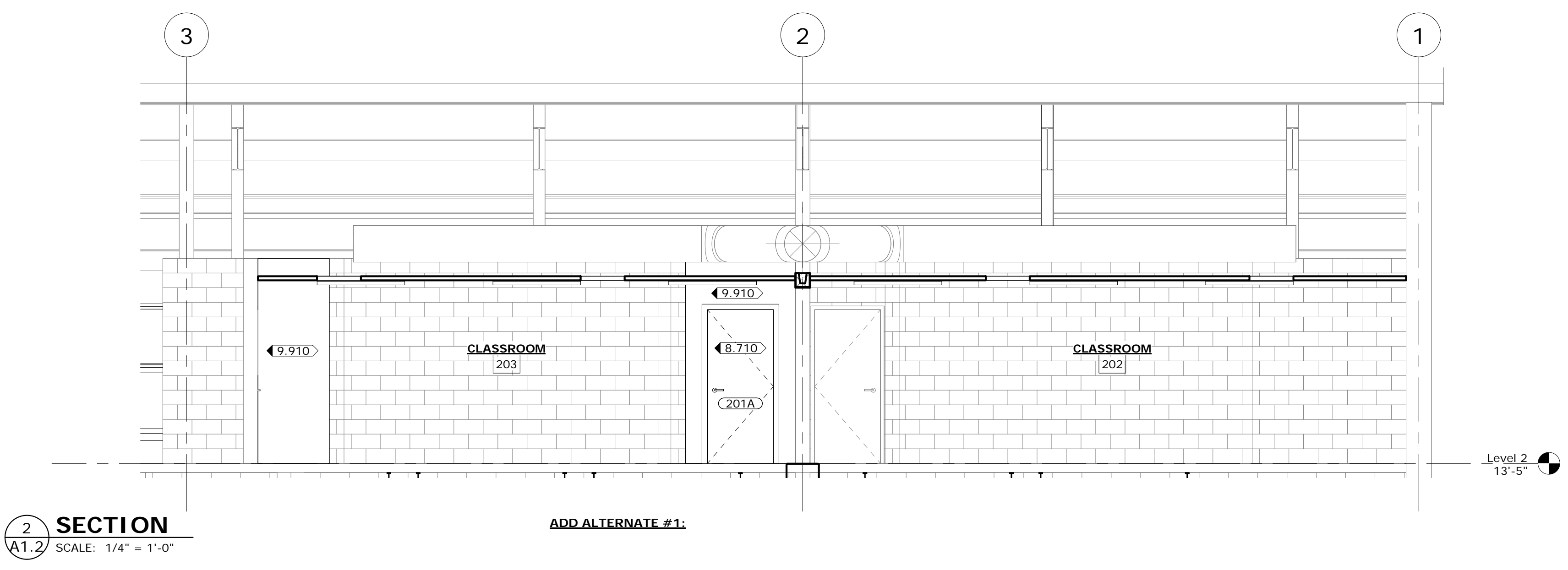
PROJECT NO.	17-17	DRAWING NO.	
DATE	02-19-2018		
DRAWN BY	RS		
PAPER	24"x36"		
ISSUE	CD		



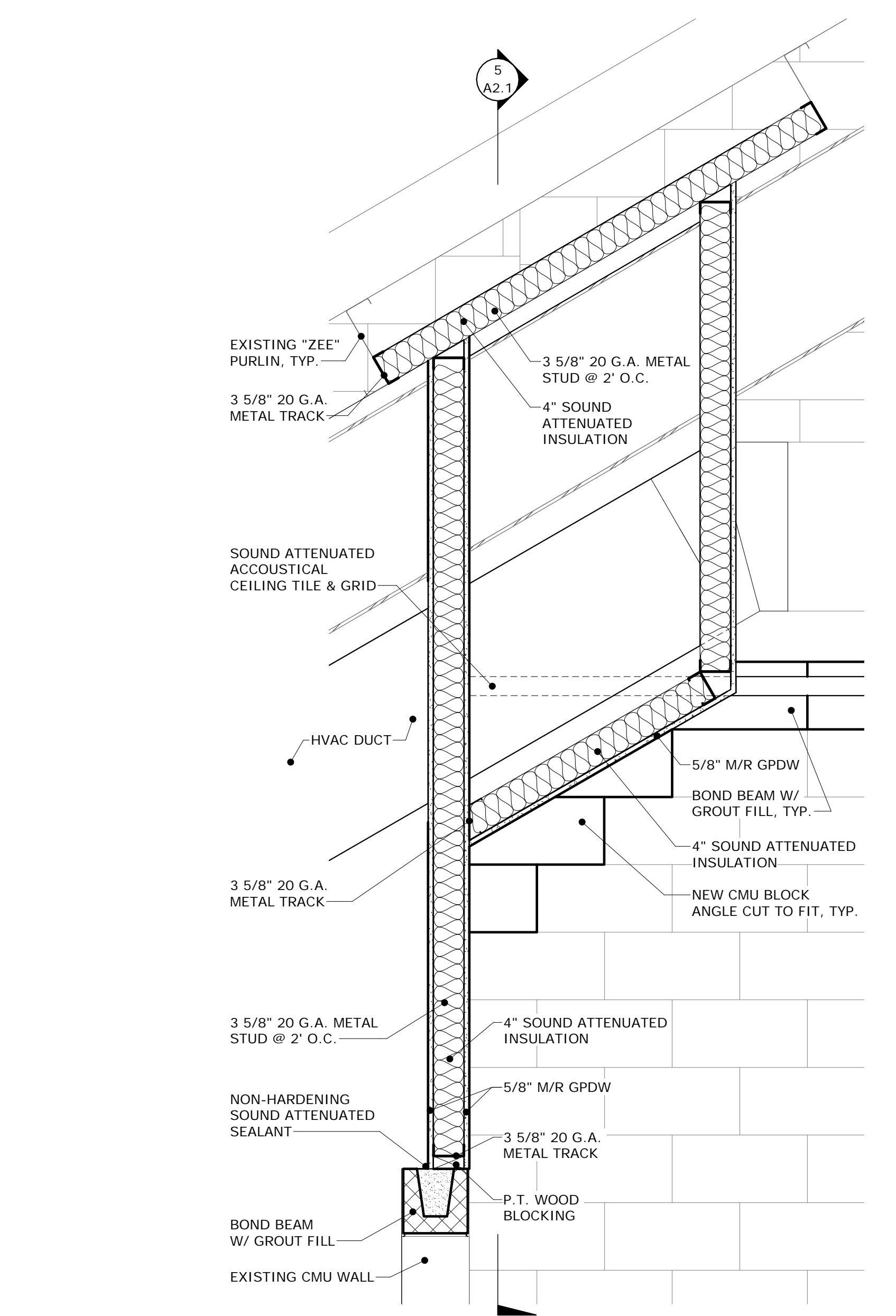
1 SECTION
A1.1 SCALE: 1/4" = 1'-0"



5 SECTION - ADD ALT. #1
A2.1 SCALE: 1" = 1'-0"



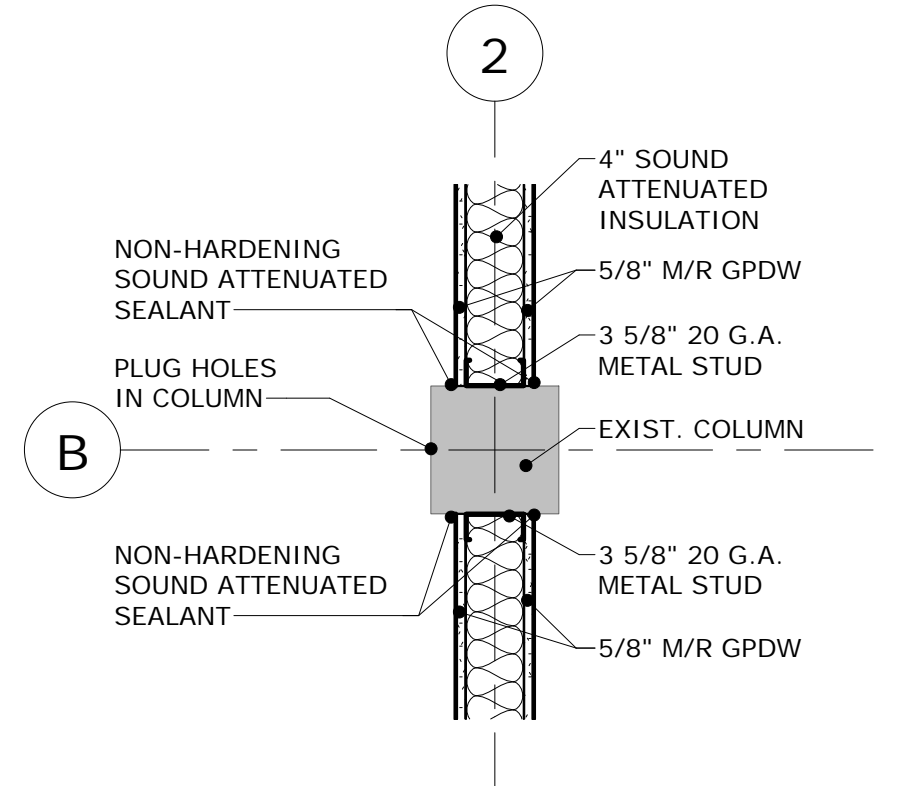
2 SECTION
A1.2 SCALE: 1/4" = 1'-0"



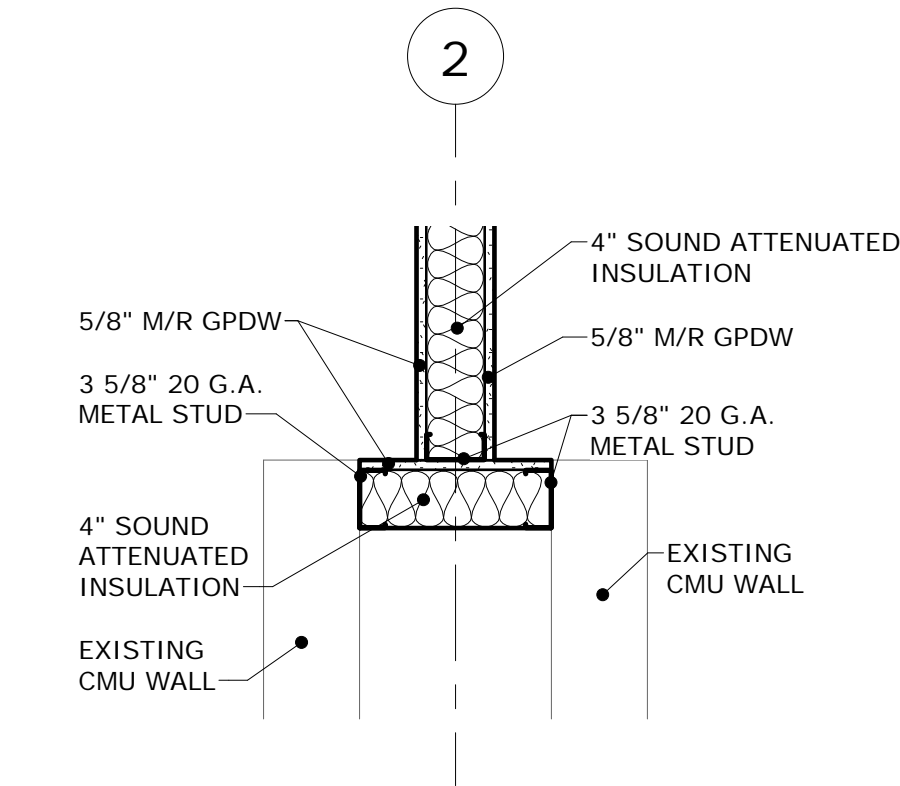
6 SECTION - ADD ALT. #1
A2.1 SCALE: 1" = 1'-0"

CONSTRUCTION NOTES

- DIVISION 7 - THERMAL & MOISTURE PROTECTION**
7.950 ACCOUSTICAL SEAL AROUND SUPPLY & RETURN DUCTS.
- DIVISION 8 - DOORS & WINDOWS**
8.710 INSTALL NEW DOOR & FRAME AND LEVER HARDWARE.
8.872 INSTALL NEW REFLECTIVE SOLAR FILM ON DOOR GLASS.
- DIVISION 9 - FINISHES**
9.512 REPLACE EXISTING ATC TILE WITH NEW ATC TILE.
9.652 INSTALL NEW 4" COVED RUBBER BASE ON NEW WALLS. (MATCH EXISTING COLOR)
9.910 PRIME AND PAINT GPDW OR CMU WALLS, DOOR FRAMES, & TRIM. CLEAN ALL PAINT SURFACES W/ SYNTHETIC TSP SOLUTION FOR NEW PAINT SURFACE PREPARATION.
- DIVISION 23 - HVAC**
23.311 REWORK DUCTS ON SUPPLY IN ROOM #109.
- DIVISION 26 - ELECTRICAL**
26.510 RELAMP OR REPLACE FIXTURES FOR LED PER ELECTRICAL PLANS.
26.511 ADD NOTIFICATION DEVICES IN SPACE.
26.512 ADD EGRESS LIGHTING ABOVE DOOR.



3 DETAIL @ COLUMN
A1.1 SCALE: 1" = 1'-0"



4 DETAIL @ END WALL
A1.1 SCALE: 1" = 1'-0"

MECHANICAL SPECIFICATIONS:

Table with 2 columns: Section Number and Description. Includes sections for Basic Mechanical Materials and Methods, Hangers and Supports, Mechanical Identification, and HVAC Insulation.

Table with 2 columns: Section Number and Description. Includes sections for Fire-Test-Response Characteristics, Scheduling, Insulation, Adhesives, Mastics, Duct Applications, Duct Accessories, and Rectangular Duct Fabrication.

Table with 2 columns: Section Number and Description. Includes sections for Lengths, Transverse Joints, Round Duct Installation, Duct Applications, Duct Accessories, and Testing, Adjusting, and Balancing.

Table with 2 columns: Section Number and Description. Includes sections for Instrumentation Calibration, Coordination, Examination, Temperature-Controller Verification, and Submittals.



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Table with 2 columns: Section Number and Description. Includes sections for Key Plan, Revisions, and Drawing Title.

Table with 2 columns: Section Number and Description. Includes sections for Key Plan, Revisions, and Drawing Title.

PROJECT 50003278 USC-AIKENRUTH PATRICK RENOVATIONS FOR USC AIKEN 471 UNIVERSITY PKWY, AIKEN, SC 29801

Table with 2 columns: Section Number and Description. Includes sections for Drawing Title, Mechanical Specifications, and Project Information.

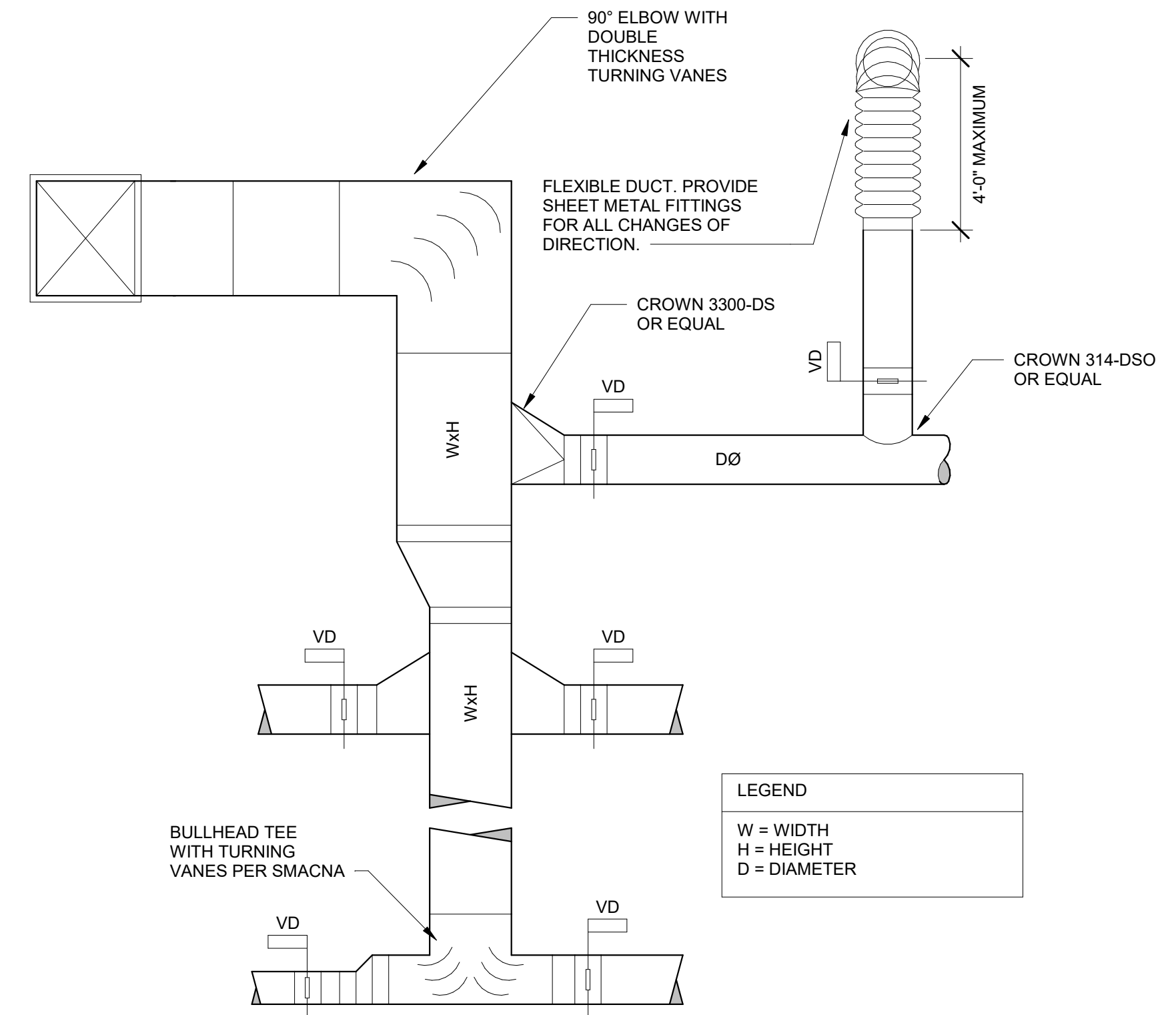
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PRINTED: 02/22/2016 10:26:37 AM

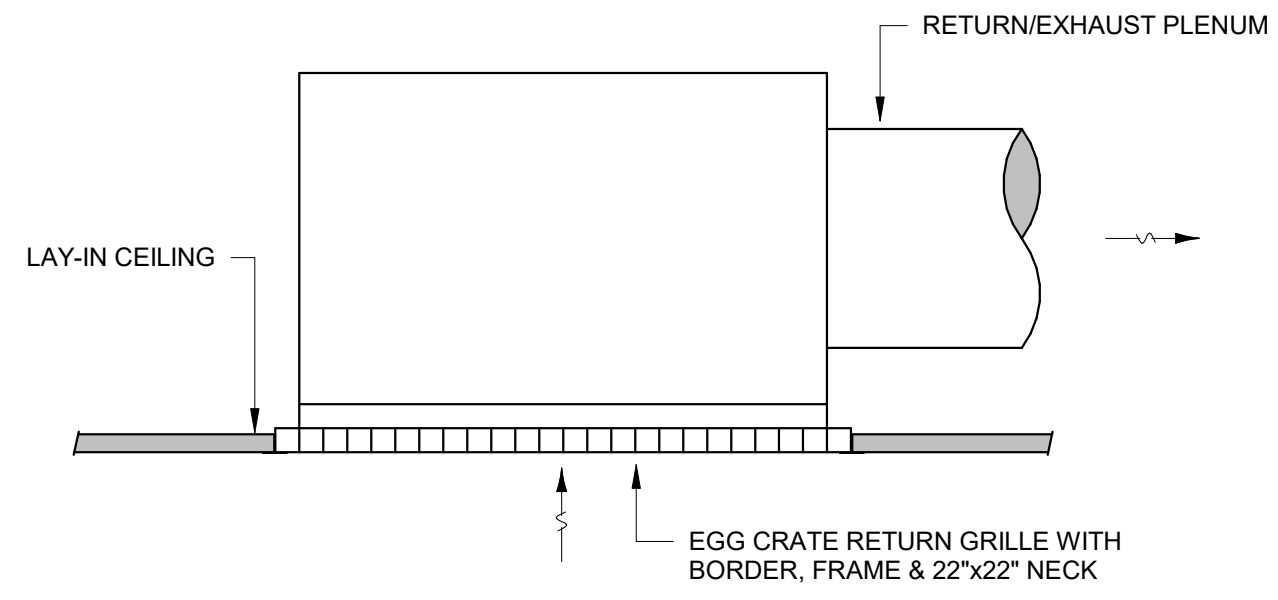
MECHANICAL LEGEND	
PHASE HATCHING	
	NEW DUCT/PIPE
	EXISTING DUCT/PIPE
	TO BE DEMOLISHED DUCT/PIPE
DUCT TYPES	
	RECTANGULAR
	ROUND
DUCT SYSTEMS	
	SUPPLY AIR
	RETURN AIR
SYMBOLS	
	KEYNOTE TAG
	AIRFLOW SYMBOL
	NEW / EXISTING WORK SYMBOL

AIR DEVICE SCHEDULE					
MARK	MANUFACTURER	MODEL	MODULE SIZE	BORDER TYPE	OPTIONS
A	TITUS	OMNI	24 x 24	LAY-IN	2,3
B	TITUS	50F	24 x 24	LAY-IN	1,2

OPTIONS
 1- ACOUSTICALLY LINED GRILLE PLENUM
 2- MANUFACTURER'S STANDARD WHITE FINISH
 3- MIN R-6 BACK PAN INSULATION



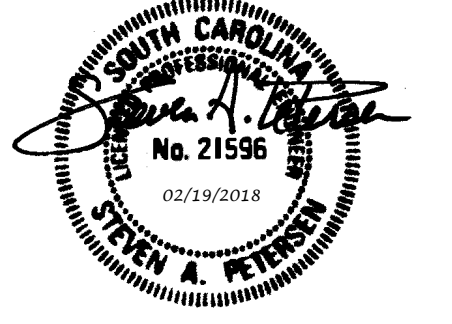
1 TYPICAL DUCTWORK AND ACCESSORY INSTALLATION
 M0.2 NOT TO SCALE



2 RETURN/EXHAUST GRILLE
 M0.2 NOT TO SCALE



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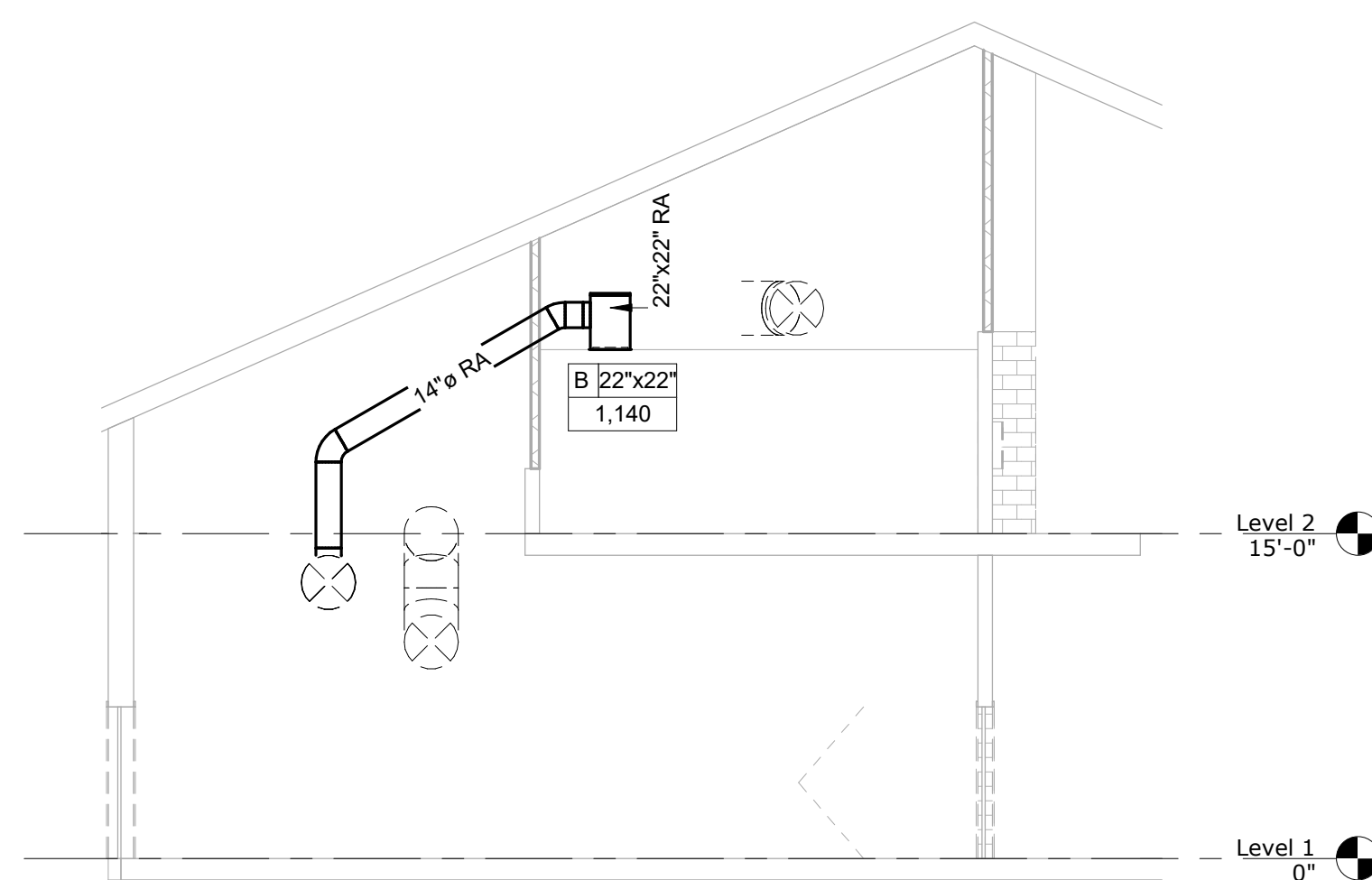
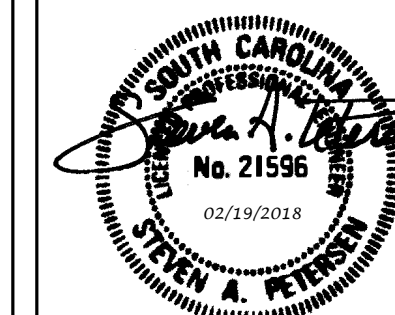
KEY PLAN:

REVISIONS:	
Date	Description

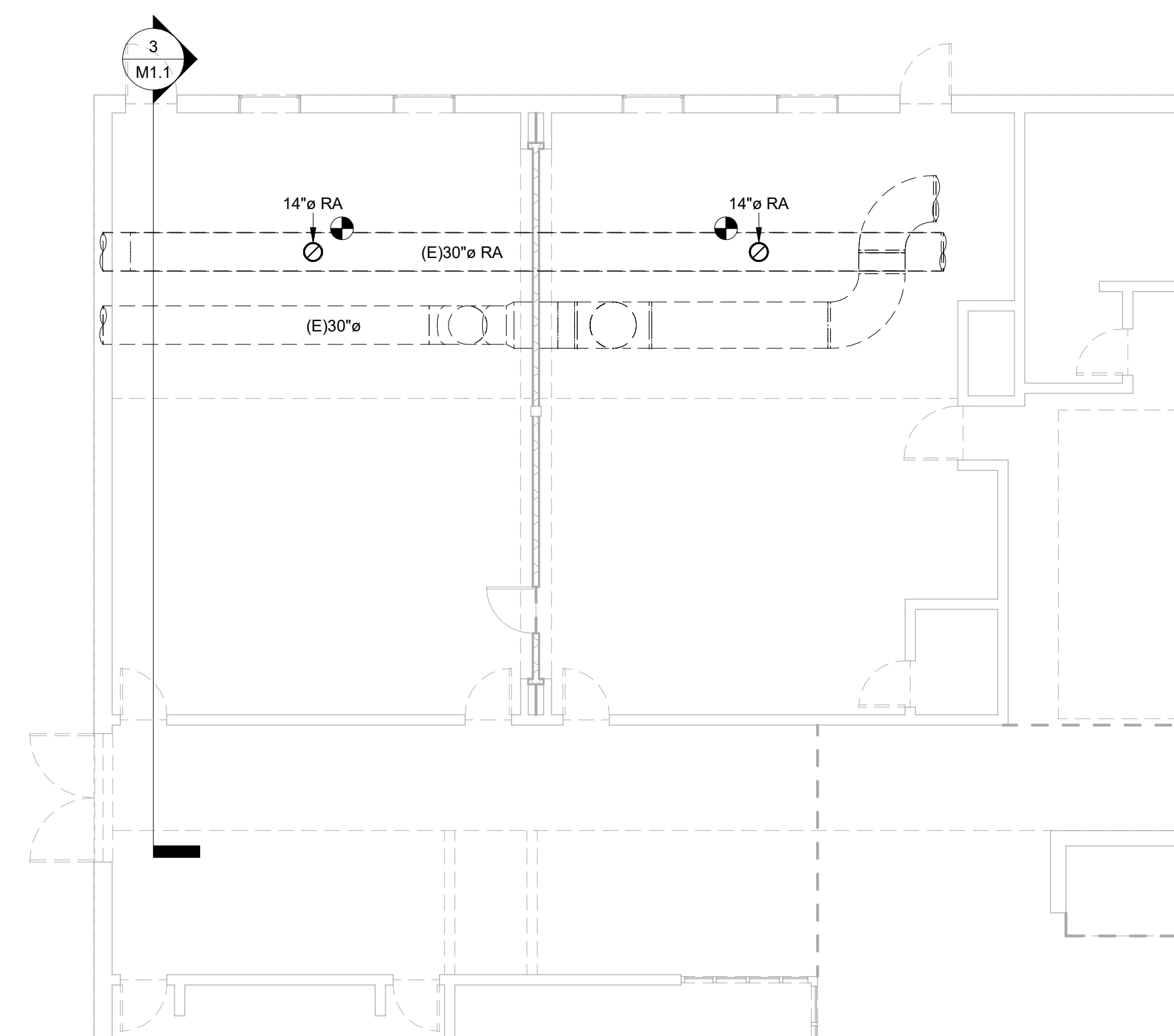
PROJECT 50003278
USC-AIKENRUTH
PATRICK
RENOVATIONS
 FOR
USC AIKEN
 471 UNIVERSITY PKWY, AIKEN, SC 29801

DRAWING TITLE
MECHANICAL
DETAILS AND
SCHEDULE

PROJECT NO.	100-1802	DRAWING NO.	M0.2
DATE	02/19/18		
DRAWN BY	JKF		
PAPER	24"x36"		
ISSUE	Project Status		

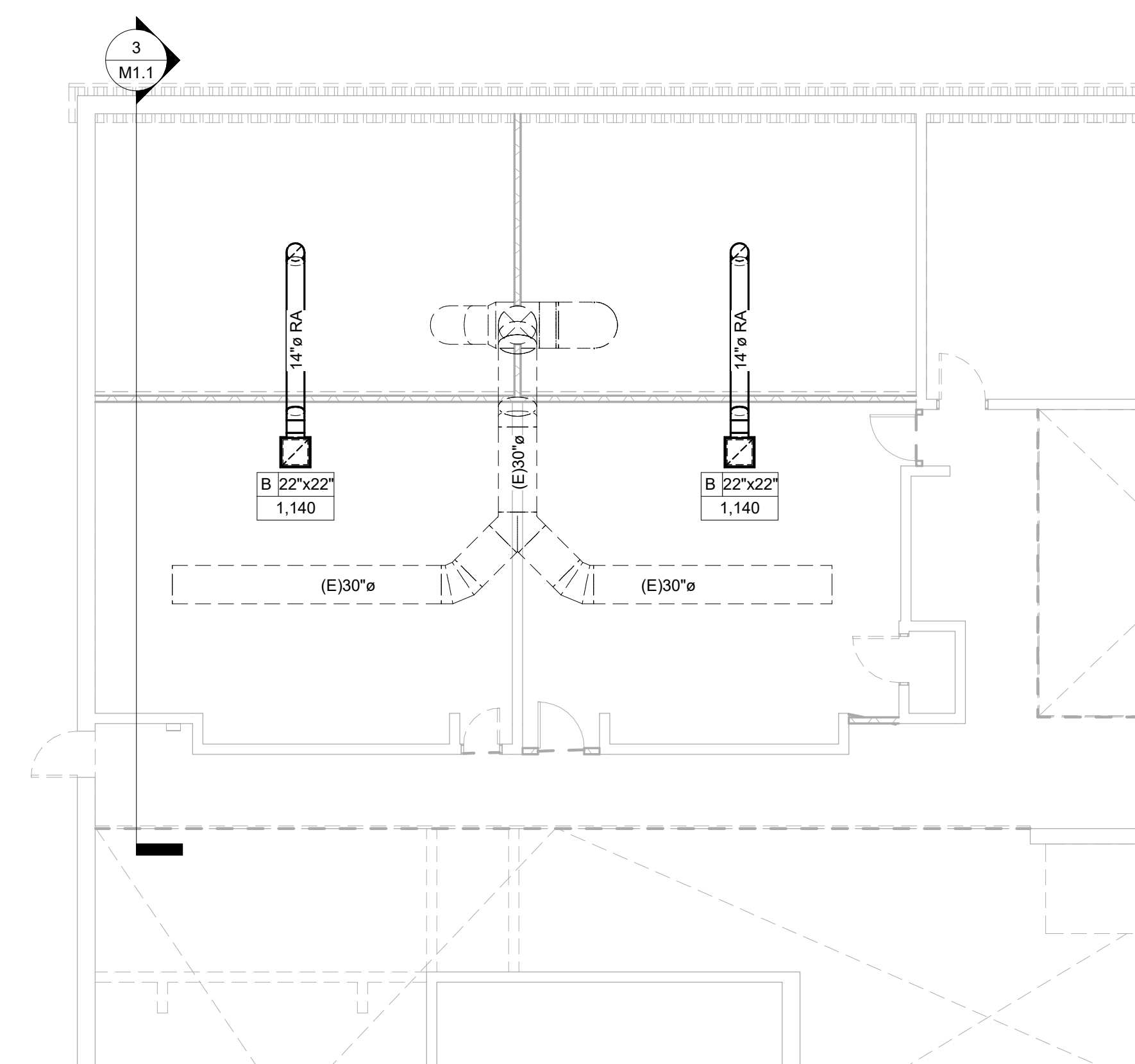


3 Section 1
M1.1 NOT TO SCALE



1 MECHANICAL NEW WORK - FIRST FLOOR

M1.1 1/8" = 1'-0"
NORTH



2 MECHANICAL NEW WORK - SECOND FLOOR

M1.1 1/8" = 1'-0"
NORTH

KEY PLAN:

REVISIONS:

Date	Description

PROJECT 50003278
USC-AIKENRUTH
PATRICK
RENOVATIONS

FOR

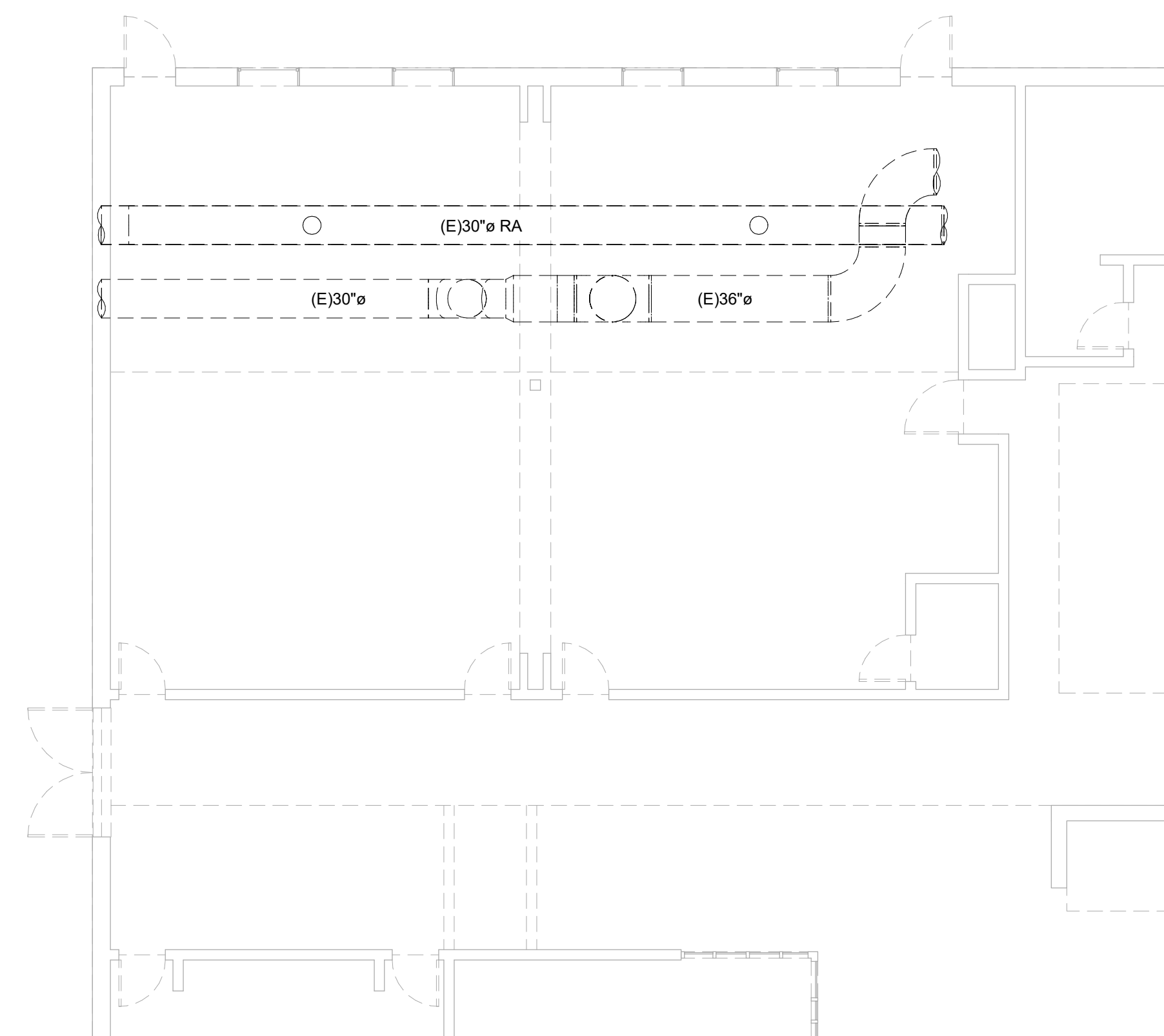
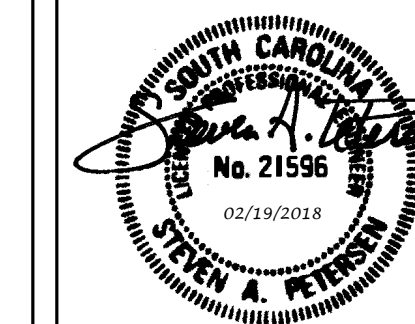
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DRAWING TITLE

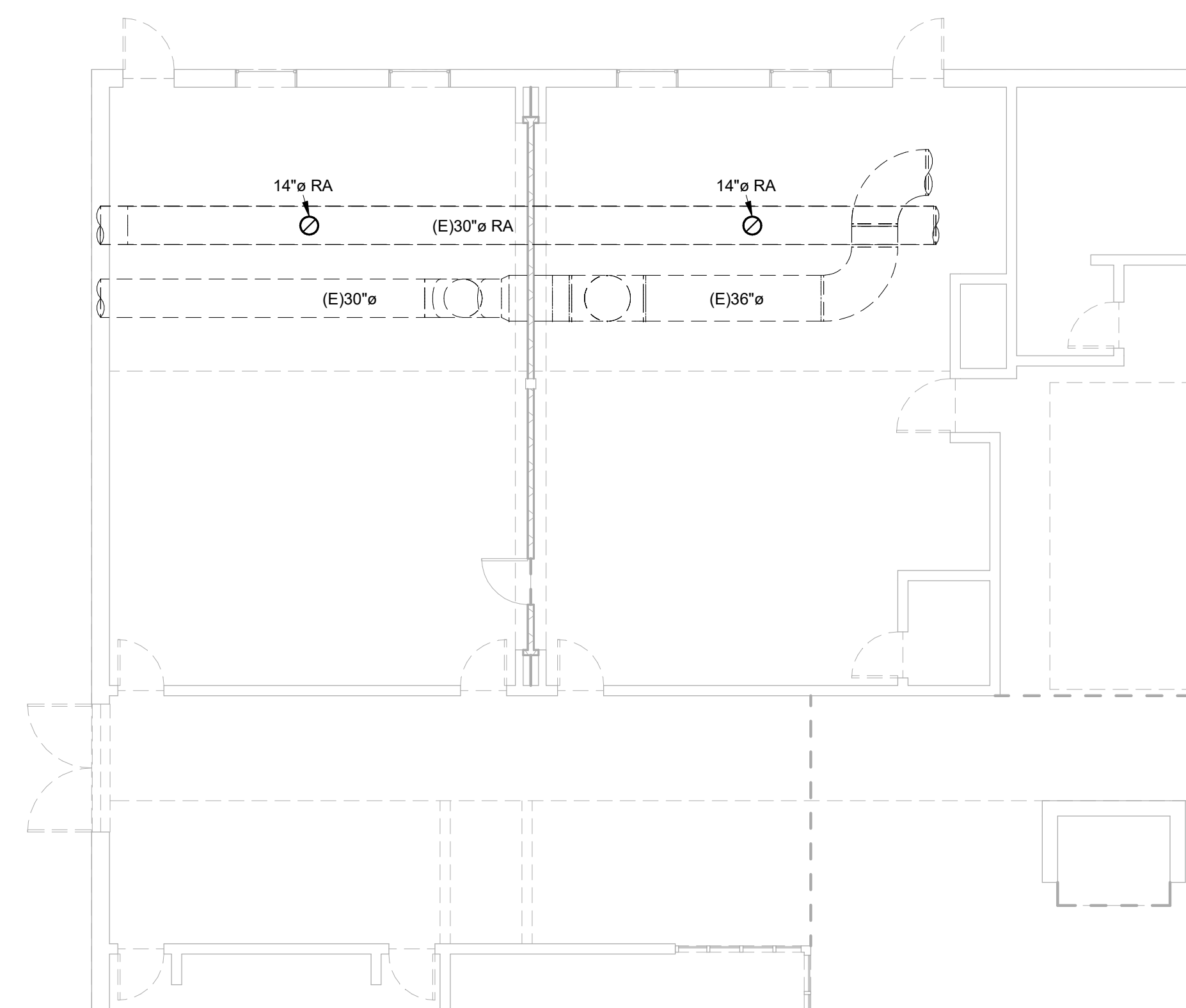
MECHANICAL
DEMOLITION AND
NEW WORK

PROJECT NO.	100-1802	DRAWING NO.	M1.1
DATE	02/19/18		
DRAWN BY	JKF		
PAPER	24"x36"		
ISSUE	Project Status		



3 MECHANICAL DEMOLITION - FIRST FLOOR

M1.2 1/8" = 1'-0"
NORTH

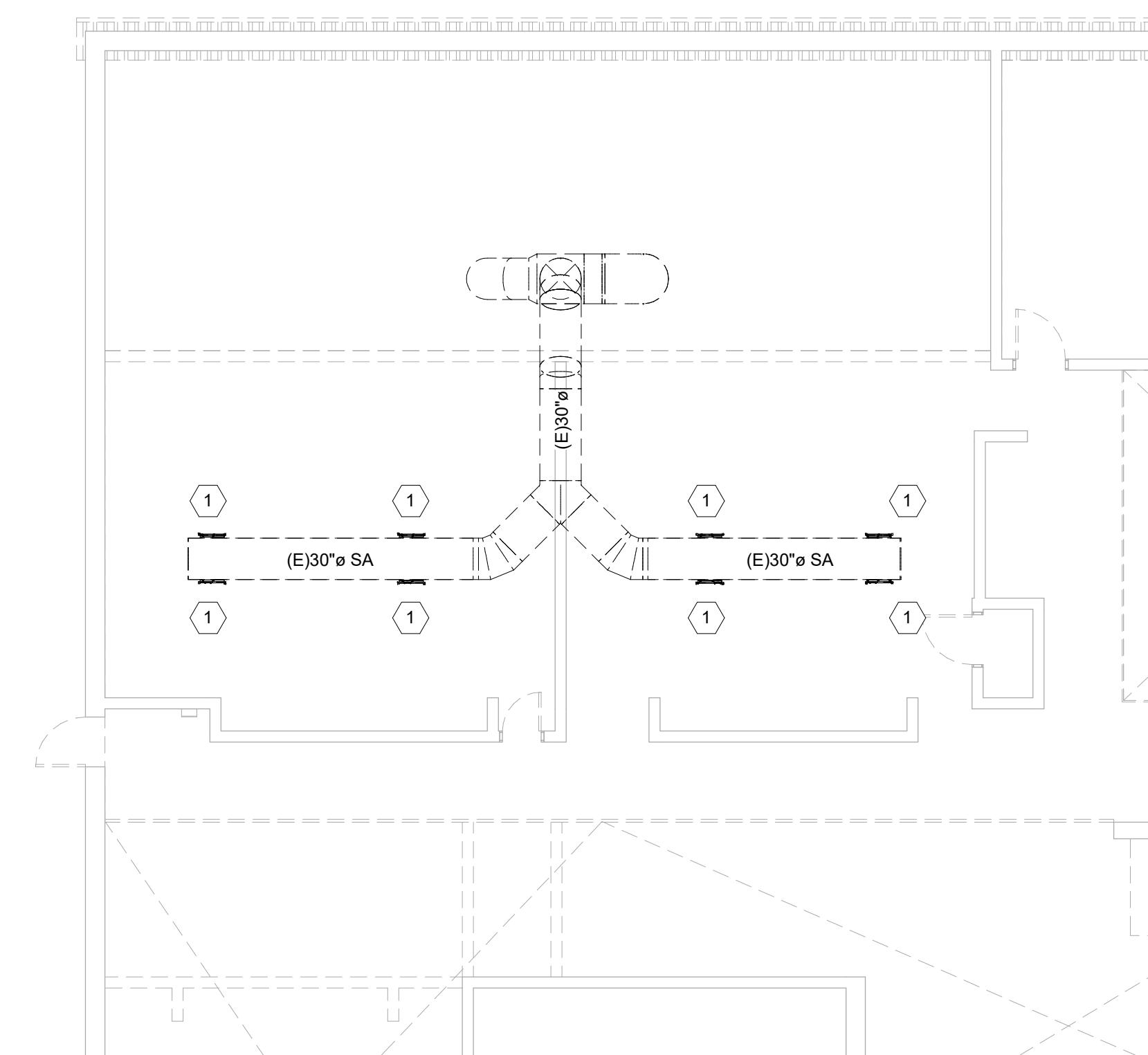


4 MECHANICAL NEW WORK - FIRST FLOOR

M1.2 1/8" = 1'-0"
NORTH

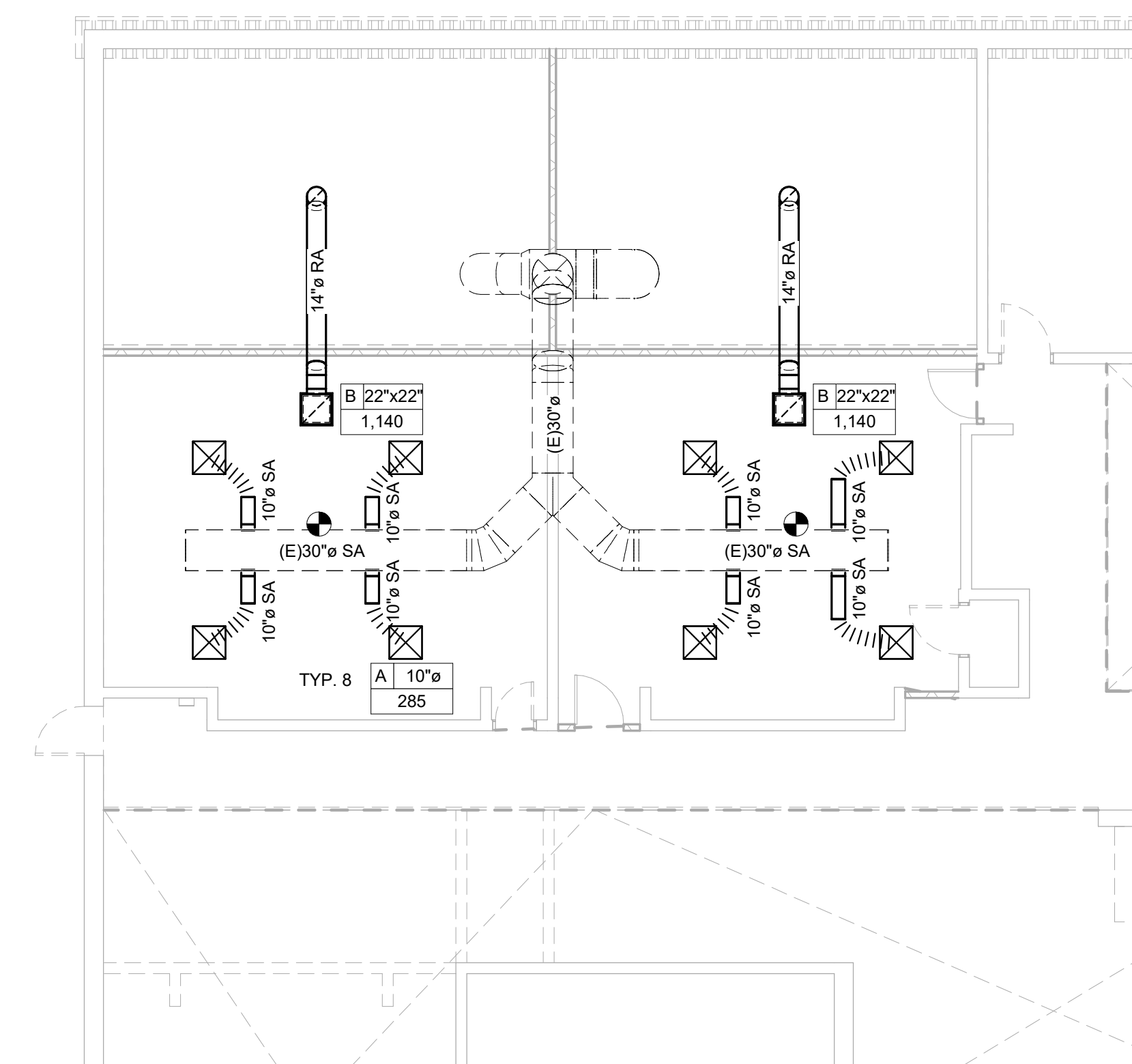
ADD ALT DEMOLITION KEYNOTES

1 DEMO AND REMOVE EXISTING SUPPLY DIFFUSER. PATCH WITH LIKE MATERIALS AND METHODS.



1 MECHANICAL DEMOLITION - SECOND FLOOR

M1.2 1/8" = 1'-0"
NORTH



2 MECHANICAL NEW WORK - SECOND FLOOR

M1.2 1/8" = 1'-0"
NORTH

KEY PLAN:

REVISIONS:

Date	Description

**PROJECT 50003278
USC-AIKENRUTH
PATRICK
RENOVATIONS**

FOR

USC AIKEN

471 UNIVERSITY PKWY, AIKEN, SC 29801

DRAWING TITLE

**MECHANICAL
DEMOLITION AND
NEW WORK ADD ALT**

PROJECT NO.	100-1802	DRAWING NO.	M1.2
DATE	02/19/18		
DRAWN BY	JKF		
PAPER	24"x36"		
ISSUE	Project Status		

LEGEND

- LIGHTING AND POWER**
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL CONTAINING 3 NUMBER 12 CONDUCTORS UNLESS SHOWN OTHERWISE. HASH MARKS, IF SHOWN, INDICATE QUANTITY OF NUMBER 12 CONDUCTORS. WHERE DRAWING SPACE PROHIBITS HASH MARKS BEING SHOWN REFER TO CIRCUIT NUMBERS AND PROVIDE REQUIRED NUMBER OF CONDUCTORS PER CIRCUIT TYPE.
- CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB, OR UNDERGROUND.
- HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARDS, NUMBERS INDICATE CIRCUIT NUMBERS.
- EXPOSED CONDUIT RUN.
- LIGHTING FIXTURE, "2" INDICATES THE CIRCUIT NUMBER AND "E" THE FIXTURE TYPE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
L.E.D. FIXTURE, SURFACE OR STEM MOUNTED.
- L.E.D. TROFFER FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
- EMERGENCY LIGHT FIXTURE.
- EXIT LIGHT
- JUNCTION BOX LOCATED ABOVE CEILING OR BELOW GRADE.
- JUNCTION BOX, FLUSH WALL MOUNTED.
- DUPLEX CONVENIENCE OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED. "5" INDICATES THE CIRCUIT NUMBER.
- DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER, AT +46" TO CENTERLINE OF OUTLET.
- GFCI DUPLEX CONVENIENCE OUTLET MOUNTED +18" TO CENTER LINE UNLESS OTHERWISE NOTED. "WP" WHERE SHOWN INDICATES WEATHER-RESISTANT DEVICE WITH METAL IN-SUE WEATHERPROOF COVER.
- GFCI DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER AT +46" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.
- SPECIAL RECEPTACLE TO SUIT EQUIPMENT FURNISHED.
- QUADRUPLEX RECEPTACLE, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- QUADRUPLEX RECEPTACLE, +46" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- SINGLE POLE TOGGLE SWITCH, 3'-6" MOUNTING HEIGHT.
- THREE OR FOUR WAY SWITCH AS INDICATED, +3'-6" MOUNTING HEIGHT.
- 0-10 VOLT, LOW-VOLTAGE DIMMER FOR L.E.D. FIXTURES. MOUNT AT +46" ABOVE FINISHED FLOOR.
- 0-10 VOLT, LOW-VOLTAGE DIMMER WITH OCCUPANCY SENSOR FOR L.E.D. FIXTURES. MOUNT AT +46" ABOVE FINISHED FLOOR.
- PANELBOARD, SEE SCHEDULE.
- DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS. FUSED PER MANUFACTURER'S NAME PLATE DATA OF EQUIPMENT SERVED.
- SINGLE OR DOUBLE POLE, MINIMUM 20 AMP MOTOR RATED ENCLOSED SWITCH WITH "LOCK-OUT" OPTION. MOUNTED NEAR EQUIPMENT BEING SERVED.
- MOTOR
- FIRE ALARM SYSTEM**
- STROBE LIGHT, 8'-10" MOUNTING HEIGHT TO CENTER OF DEVICE.
- SMOKE DETECTOR, CEILING MOUNTED.
- TELECOMMUNICATION SYSTEMS**
- PLYWOOD BACKBOARD "T.B." INDICATES TELECOMMUNICATIONS BOARD.
- TELECOMMUNICATIONS OUTLET WITH (2) CAT 6 CABLE DROPS, +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 3/4". TO CEILING SPACE ABOVE.
- TELECOMMUNICATIONS OUTLET WITH (2) CAT 6 CABLE DROPS, +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 3/4". TO CEILING SPACE ABOVE.
- OCCUPANCY SENSORS**
- DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED AT CORNER UNLESS SHOWN OTHERWISE. INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)

GENERAL NOTES:

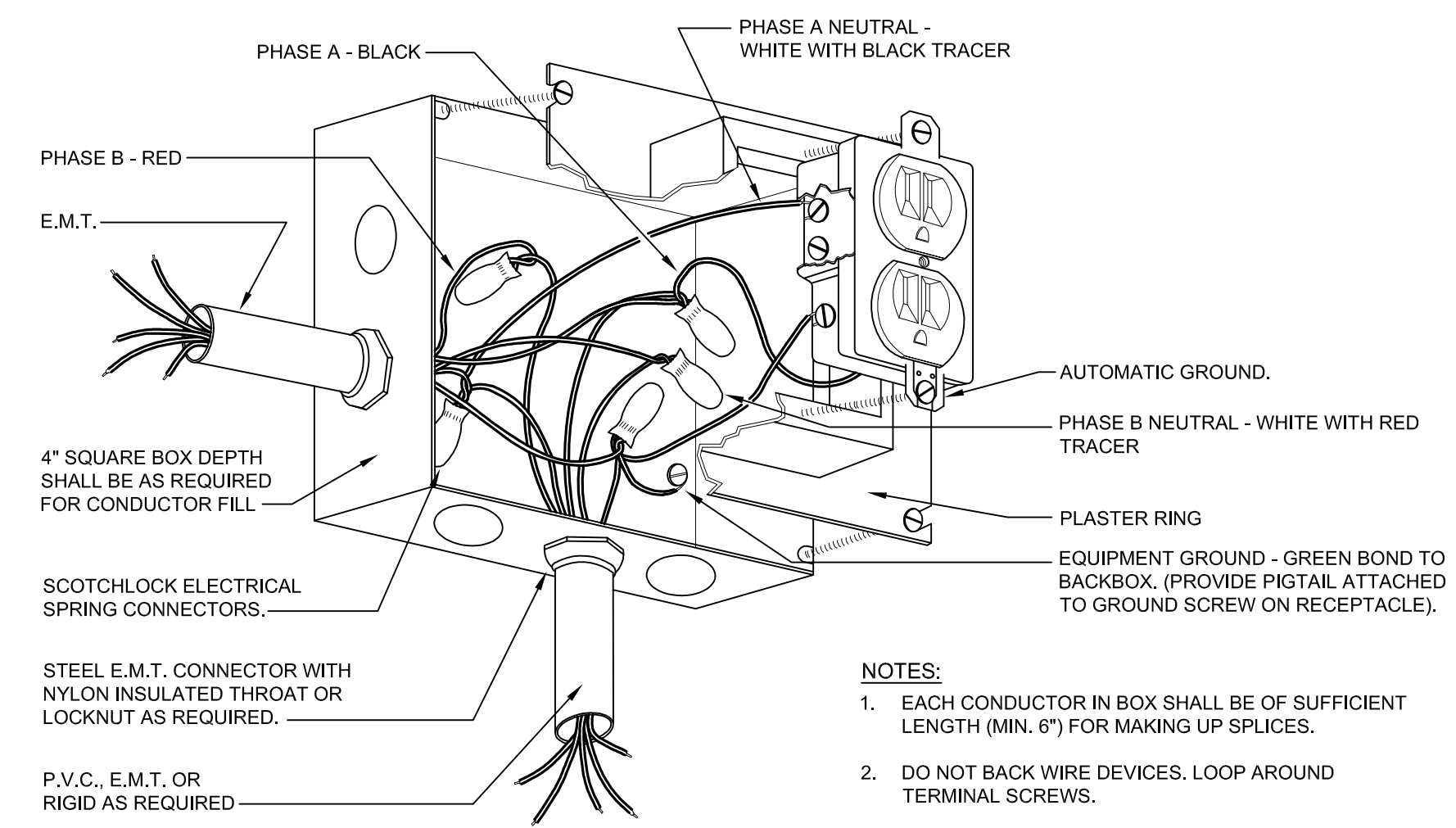
- DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
- MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.
- THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.
- 112 SYMBOL INDICATING ROOM OR SPACE NUMBER.
- FLUSH RECESSED OUTLET BOXES INSTALLED IN NON-COMBUSTIBLE MATERIAL SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". FLUSH RECESSED OUTLET BOXES INSTALLED IN COMBUSTIBLE MATERIAL SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX IS FLUSH WITH THE FINISHED SURFACE. COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
- ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
- ALL RECEPTACLES LOCATED WITHIN 8'-0" TO THE EDGE SINK OR OTHER WATER SOURCE SHALL BE GFCI TYPE DEVICE IN ACCORDANCE WITH N.E.C. 210.9(A.7). COORDINATE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.

DEMOLITION NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY EXACT ROUTINGS OF EXISTING RACEWAYS BEFORE STARTING ANY WORK AND NOTIFY THE ARCHITECT OF ANY KNOWN DISCREPANCIES.
- THE CONTRACTOR SHALL UTILIZE AS MUCH OF THE EXISTING OUTLETS AND RACEWAYS AS POSSIBLE TO RECONNECT EXISTING AND NEW CIRCUITS.
- THE CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS AS SHOWN OR AS REQUIRED TO COMPLETE REVISED CIRCUITS AND TO CONFORM TO N.E.C.
- ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY THE OWNER.
- MAINTAIN SERVICE TO ALL EXISTING CIRCUITS THAT ARE NOT SCHEDULED FROM REMOVAL.
- PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE.
- EXISTING CEILING, WALLS AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATIONS SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
- EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, MECHANICAL PLUMBING AND ELECTRICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.
- ALL EXISTING LIGHT FIXTURES REMOVED FROM AREAS WHERE NEW CEILINGS AND LIGHT FIXTURES ARE TO BE INSTALLED SHALL REMAIN THE PROPERTY OF THE OWNER.
- TO MAINTAIN SERVICE, TO EXTEND, OR TO RECONNECT CIRCUITS WHERE CONDUIT CANNOT BE CONCEALED, SURFACE METAL RACEWAY (WIREMOLD) SHALL BE USED. VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR DOOR SWINGS, CABINETS, COUNTERS AND OTHER BUILT-IN EQUIPMENT. CONDITIONS INDICATED ON ARCHITECTURAL DRAWINGS SHALL GOVERN.
- COORDINATE ELECTRICAL WITH ARCHITECTURAL DETAILS, FLOOR PLANS, ELEVATIONS, STRUCTURAL MECHANICAL AND PLUMBING DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET CONDITIONS.
- DEVICES LOCATED AT COUNTERS SHALL BE MOUNTED ABOVE COUNTER TOPS UNLESS KNEE SPACE IS PROVIDED WITH DRILLED HOLE IN COUNTER TOP FOR SERVICE CORDS. VERIFY WITH ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE PLUGS OR RECEPTACLES TO MATCH DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED BY OTHERS. (VERIFY)

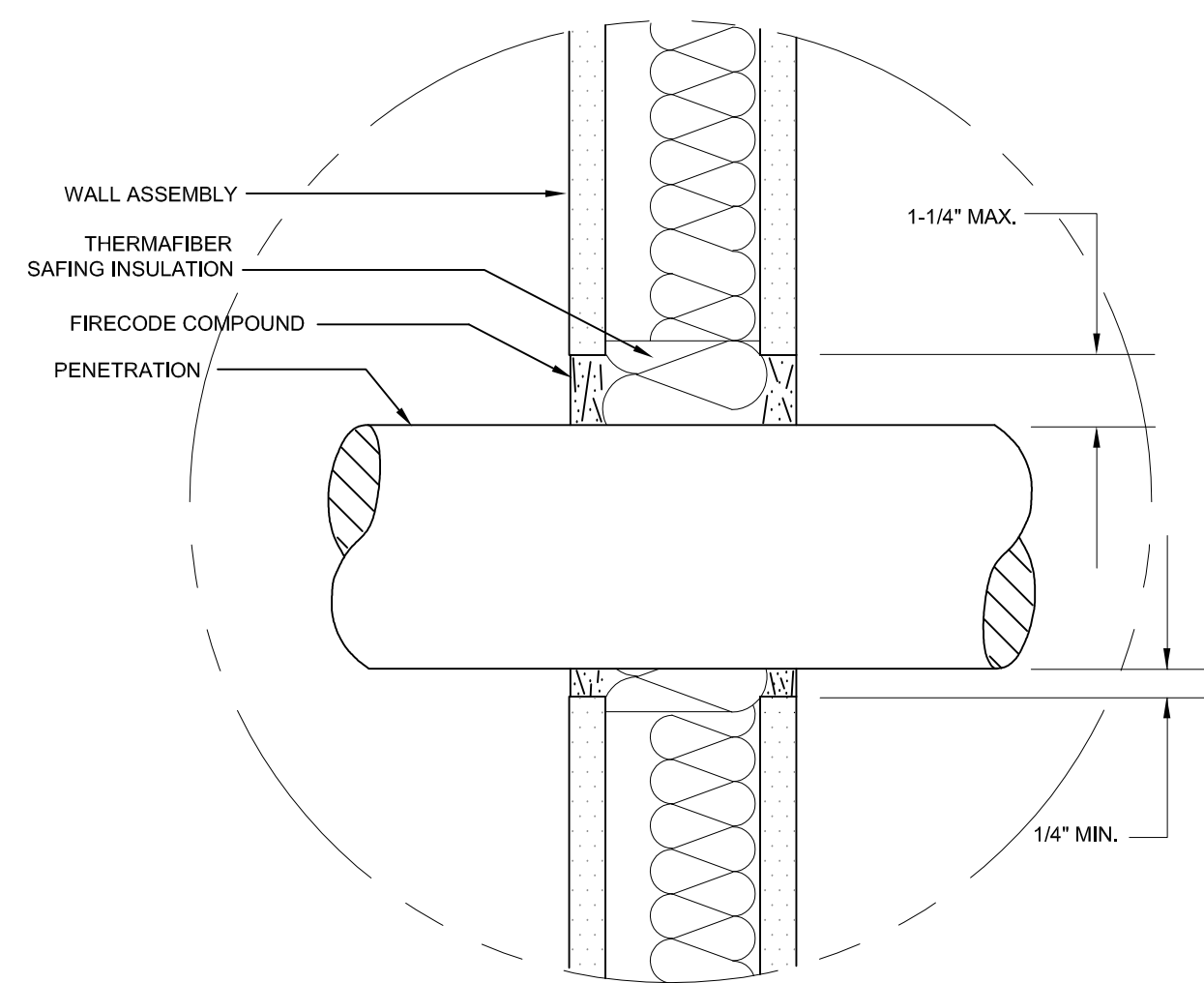
FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	8'-0" LINEAR 8"x2" RECTANGULAR FIXTURE WITH 80% DIRECT / 20% INDIRECT LIGHT DISTRIBUTION. HOUSING TO BE COLD ROLLED STEEL WITH WHITE GLOSS FINISH. PROVIDE WITH 96" ADJUSTABLE MOUNTING FROM HARD CEILING WITH MATCHING CEILING CANOPY MOUNTS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT. LAMPS: L.E.D. AT MINIMUM 1000 LUMENS/FT & MAX 65 WATT 3500°K DRIVER. MINIMUM 1% DIMMABLE 0-10V MULTIVOLT ELECTRONIC	LITHONIA "GRAD LED" SERIES OR APPROVED EQUAL
A2	SAME AS TYPE "A" EXCEPT 4'-0" LINEAR HOUSING AND MAX 32 WATT.	LITHONIA "GRAD LED" SERIES OR APPROVED EQUAL
B	L.E.D. FIXTURE, 2' x 4' LAY-IN WITH VOLUMETRIC SYMMETRIC DISTRIBUTION AND MATTE-WHITE POLYESTER POWDER PAINTED REFLECTOR. LED DRIVER DELIVERS FULL-RANGE DIMMING FROM 0-10V CONTROL SIGNAL. (39.1 INPUT WATTS) LUMEN OUTPUT: 4800 LUMENS AT 3500°K DRIVER. MULTI VOLT, 0-10V DIMMING, 1% MINIMUM	LITHONIA "VTL" SERIES METALUX COLUMBIA DAY-BRITE
C	SELF-CONTAINED EMERGENCY FIXTURE WITH INTEGRAL BATTERY PACK DUAL HEAD, AND SEALED NI-CAD BATTERIES. PROVIDE WITH TEST SWITCH, INDICATOR LAMP, AND 4 WATTS MR16 L.E.D. LAMPS. WHITE FINISH AND 120/277 VOLT INPUT.	EMERGH-LITE "PROVIDER" SERIES SURE-LITE DUAL-LITE LITHONIA CHLORIDE LIGHTGUARD
E	L.E.D. EXIT & EMERGENCY LIGHT COMBO FIXTURE WITH WHITE HOUSING, RED LETTERING, UNIFORM LAMP DIFFUSER AND 120/277 VOLT INPUT. PROVIDE BACK-UP BATTERY PACK WITH TEST BUTTON, 6 WATT MR16 L.E.D. LAMPS AND MAINTENANCE FREE NI-CAD BATTERIES FOR MINIMUM 90 MINUTES OF ILLUMINATION.	EMERGH-LITE "PREMIER" SERIES SURE-LITE DUAL-LITE LITHONIA CHLORIDE LIGHTGUARD



1 DETAIL - RECEPTACLE CONNECTION

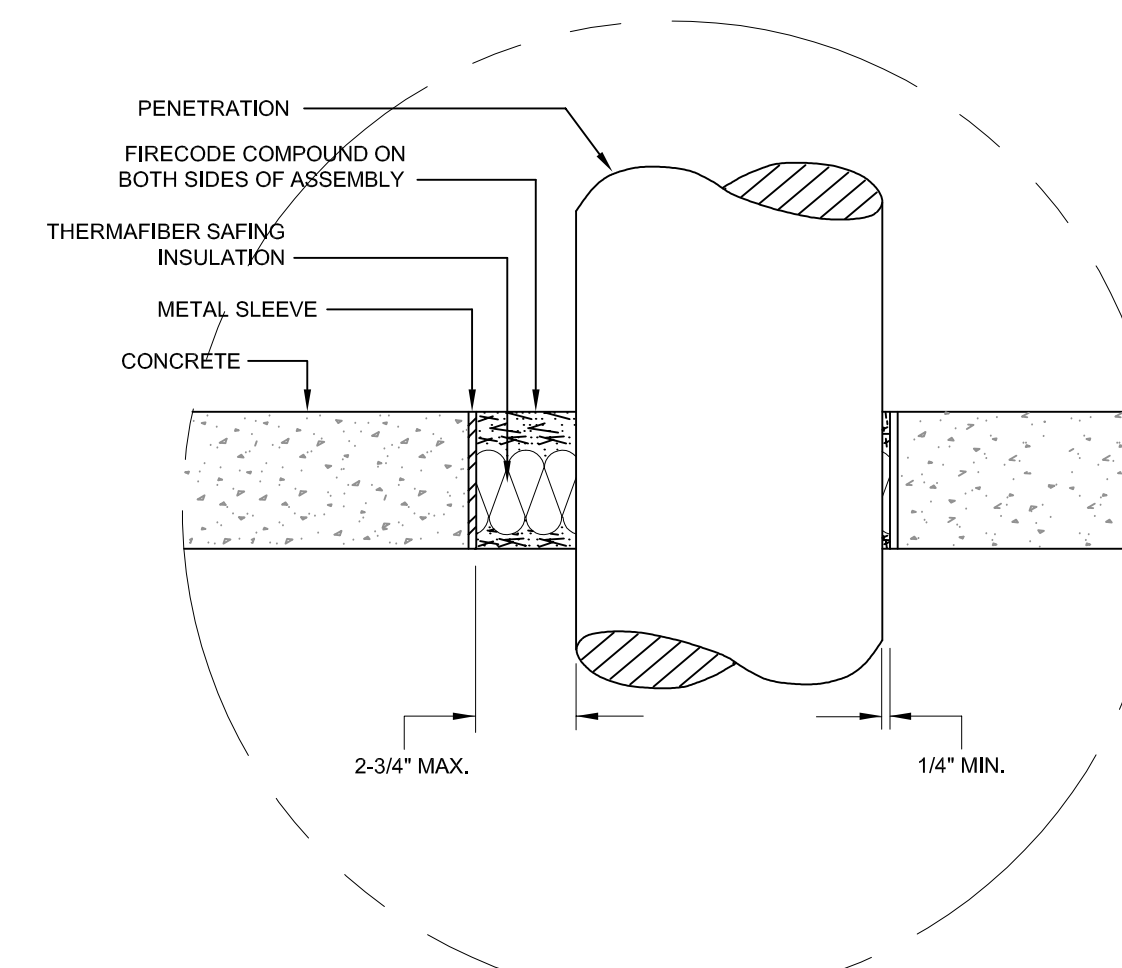
SCALE: NONE



- NOTES:**
- GYPSON BOARD WALL PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH U.L. SYSTEM NO. WJL-1054.
 - WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW-VOLTAGE CABLES, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

2 GYPSON WALLBOARD ASSEMBLY PENETRATION DETAIL

SCALE: NONE



- NOTES:**
- CONCRETE FLOOR AND WALL PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH U.L. SYSTEM NO. C-AJ-1152.
 - WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW-VOLTAGE CABLES, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

3 CONCRETE FLOOR / WALL ASSEMBLY PENETRATION DETAIL

SCALE: NONE



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KEY PLAN:

REVISIONS:

Date	Description

PROJECT 50003278
USC-AIKEN RUTH
PATRICK
CLASSROOM
RENOVATIONS

FOR

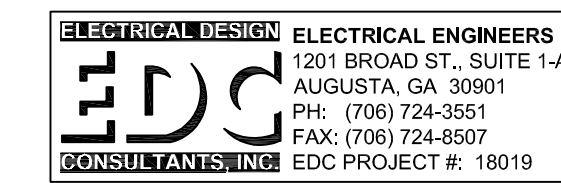
USC AIKEN

471 UNIVERSITY PKWY, AIKEN, SC 29801

DRAWING TITLE

LEGEND NOTES AND
FIXTURE SCHEDULES

PROJECT NO.	17-17	DRAWING NO.	
DATE	02-19-2018	<div style="font-size: 2em; font-weight: bold; text-align: center;">E1.1</div>	
DRAWN BY	ALG		
PAPER	24"x36"		
ISSUE	CD		



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KEYED NOTES:

- 1. CONNECT NEW FIXTURES TO EXISTING LIGHTING CIRCUIT CURRENTLY SERVING THIS SPACE.

GENERAL NOTES:

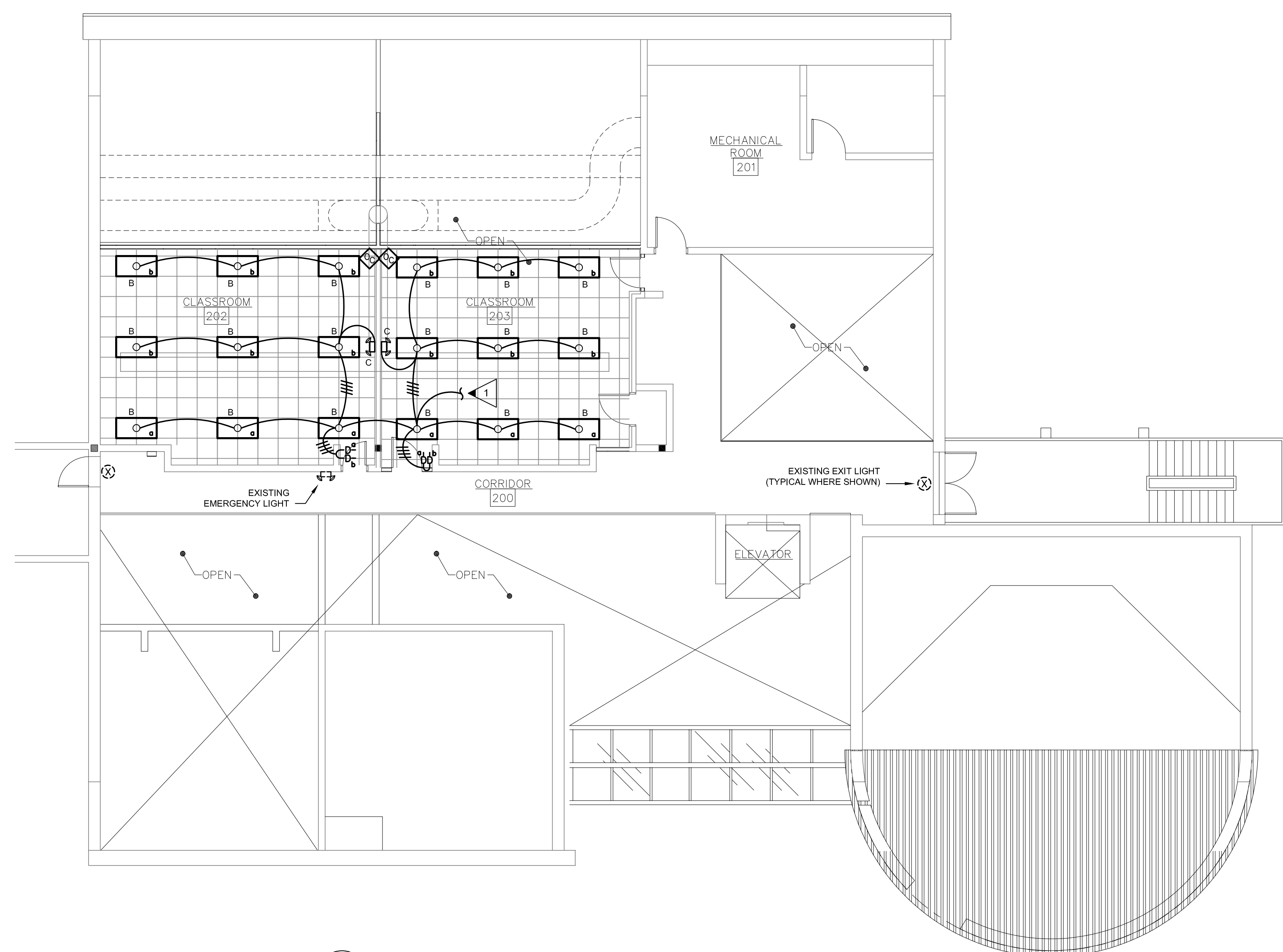
- 1. ALL NEW DEVICES LOCATED ON EXISTING CONCRETE BLOCK WALLS SHALL BE SURFACE MOUNTED USING EXPOSED CONDUIT AND OUTLET BOXES. PAINT CONDUIT RACEWAY SYSTEM TO MATCH EXISTING.

KEY PLAN:

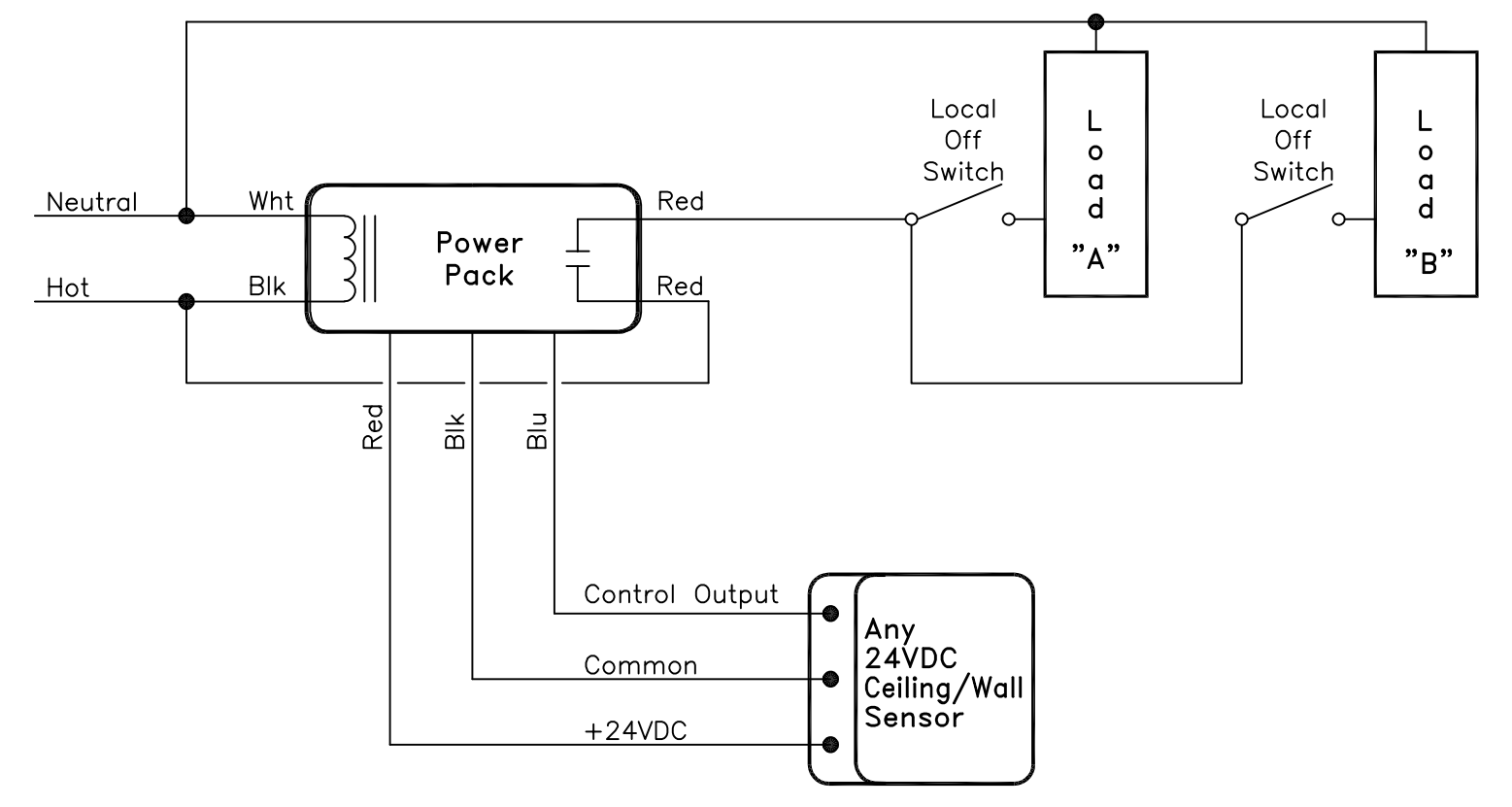
REVISIONS:	
Date	Description

PROJECT 50003278
USC-AIKEN RUTH PATRICK CLASSROOM RENOVATIONS
 FOR
USC AIKEN
 471 UNIVERSITY PKWY, AIKEN, SC 29801

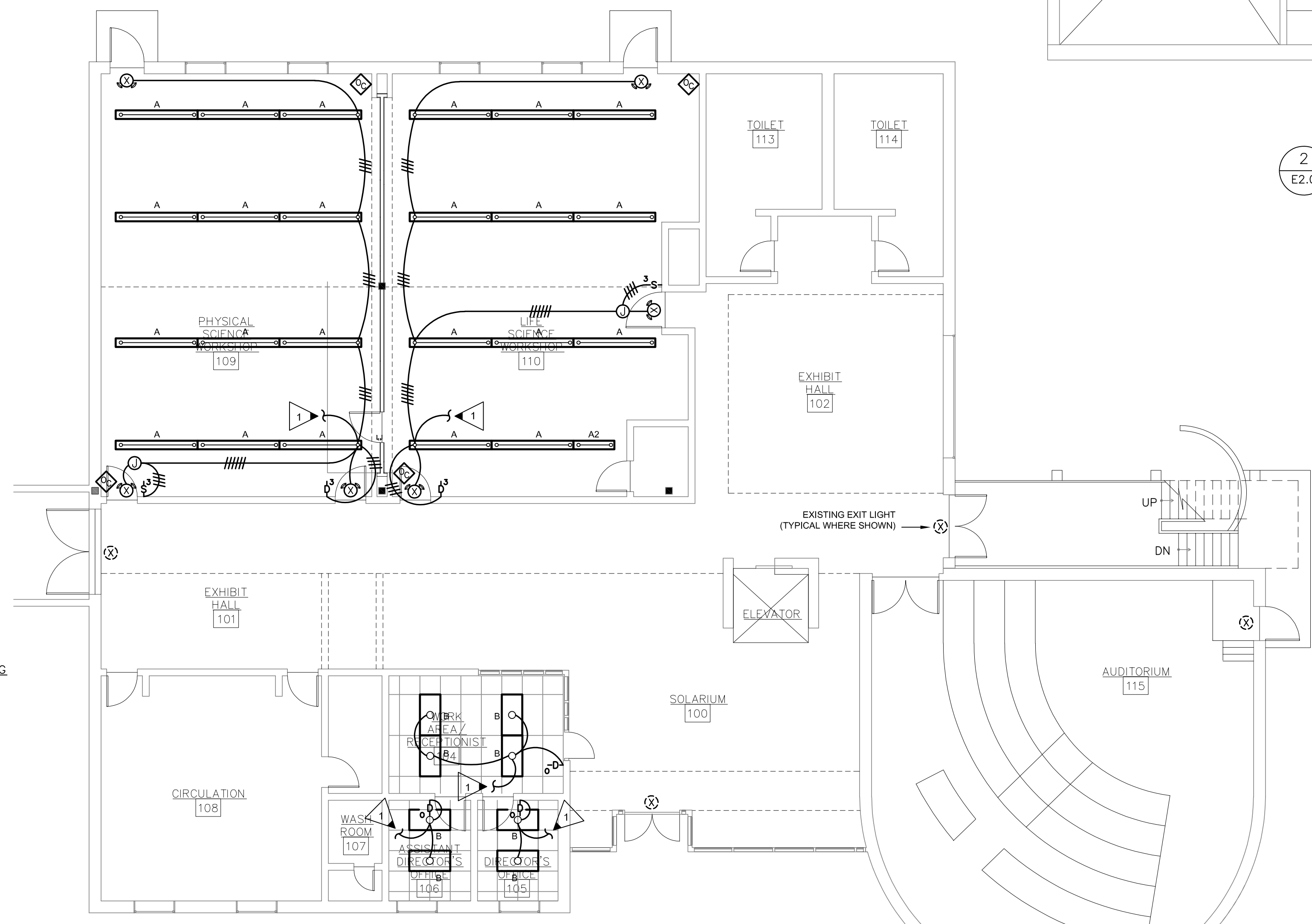
DRAWING TITLE	
LIGHTING PLAN	
PROJECT NO.	17-17
DATE	02-19-2018
DRAWN BY	ALG
PAPER	24"x36"
ISSUE	CD
DRAWING NO.	E2.0



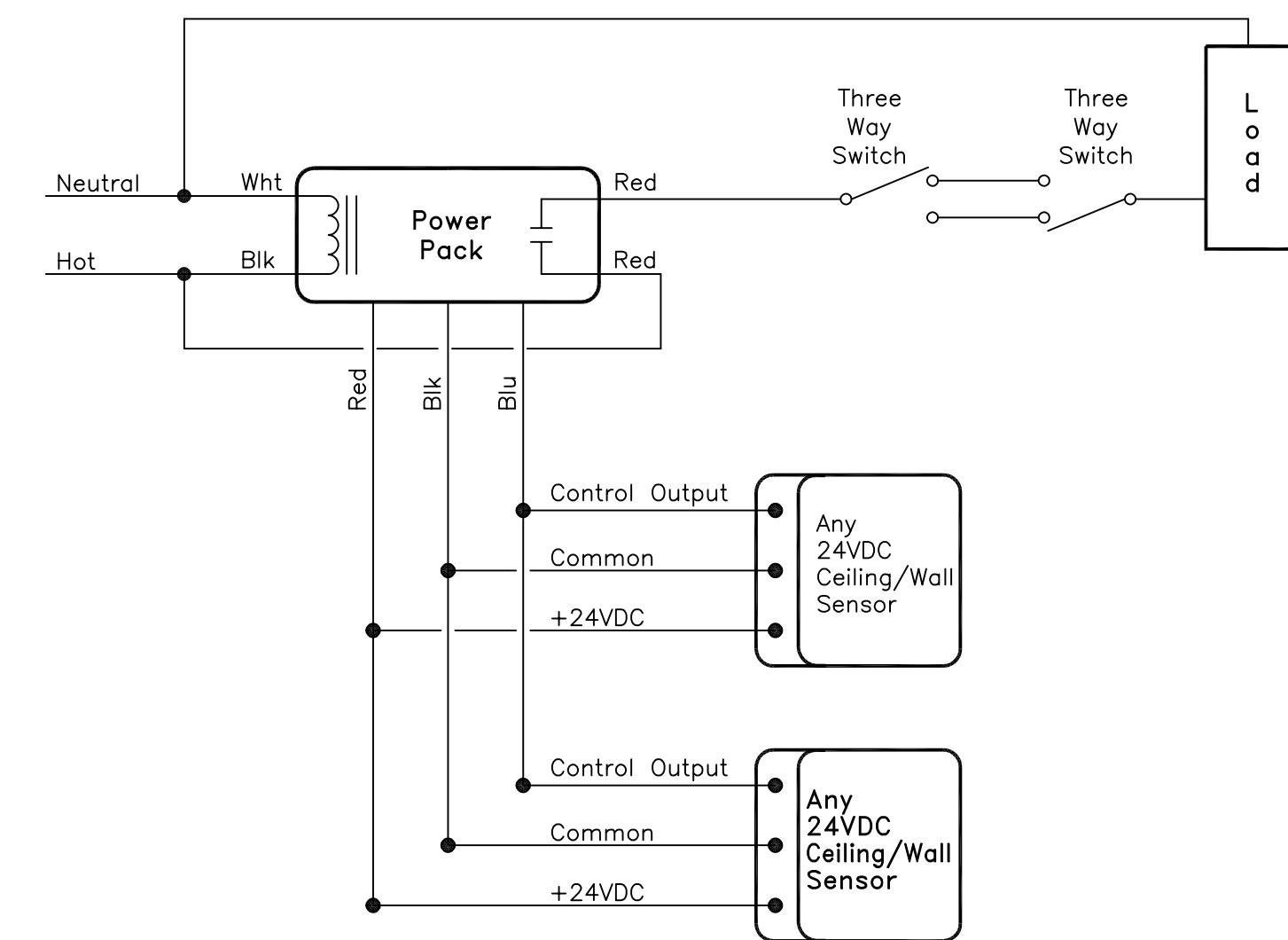
2 LIGHTING PLAN SECOND FLOOR - ADD ALTERNATE #1
 E2.0 SCALE: 1/8" = 1'-0"



3 OCCUPANEY SENSOR CLASSROOM SWITCHING DETAIL
 E2.0 SCALE: NONE



1 LIGHTING PLAN FIRST FLOOR
 E2.0 SCALE: 1/8" = 1'-0"



3 OCCUPANEY SENSOR SCIENCE ROOM SWITCHING DETAIL
 E2.0 SCALE: NONE

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KEYED NOTES:

1. DUPLEX RECEPTACLE, AV OUTLET, TV JACK, AND DATA OUTLET FOR WALL MOUNTED PROJECTOR AND SMARTBOARD. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGHING IN. AV EQUIPMENT AND MOUNTING BRACKET PROVIDED BY OWNER. REFER TO DETAIL 3E3.0 FOR AV OUTLET REQUIREMENTS.
2. ROUTE TO EXISTING ELECTRICAL PANEL SERVING THIS SPACE AND CONNECT TO SPARE 20 AMP BREAKER(S) TO SERVE NEW RECEPTACLE CIRCUITS. REVISE PANELBOARD SCHEDULE ACCORDINGLY.
3. CONNECT NEW FIRE ALARM STROBE LIGHT TO EXISTING SYSTEM. SET STROBE CANDELA (cd) INTENSITY AS NOTED. MATCH EXISTING DEVICES UNLESS DEVICE IS OBSOLETE.

GENERAL NOTES:

1. ALL NEW DEVICES LOCATED ON EXISTING CONCRETE BLOCK WALLS SHALL BE SURFACE MOUNTED USING EXPOSED CONDUIT AND OUTLET BOXES. PAINT CONDUIT RACEWAY SYSTEM TO MATCH EXISTING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL AV AND TELECOMMUNICATIONS CABLING AS SHOWN ON DRAWINGS. CABLING SHALL MATCH CAMPUS STANDARD UNLESS NOTED OTHERWISE. COORDINATE EXACT LOCATION OF NETWORK RACK WITH OWNER.

KEY PLAN:

REVISIONS:	
Date	Description

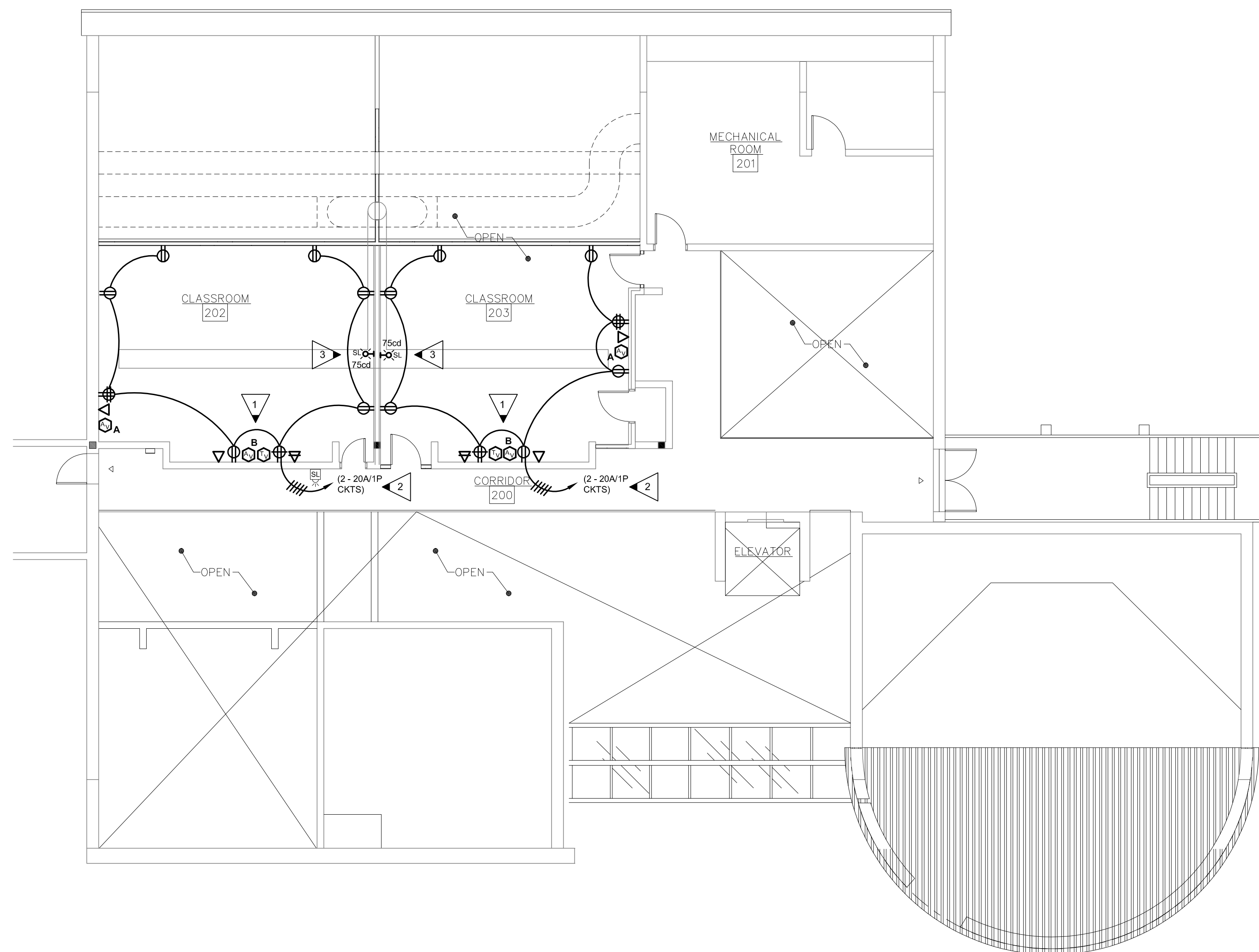
PROJECT 50003278
USC-AIKEN RUTH
PATRICK
CLASSROOM
RENOVATIONS

FOR
USC AIKEN
471 UNIVERSITY PKWY, AIKEN, SC 29801

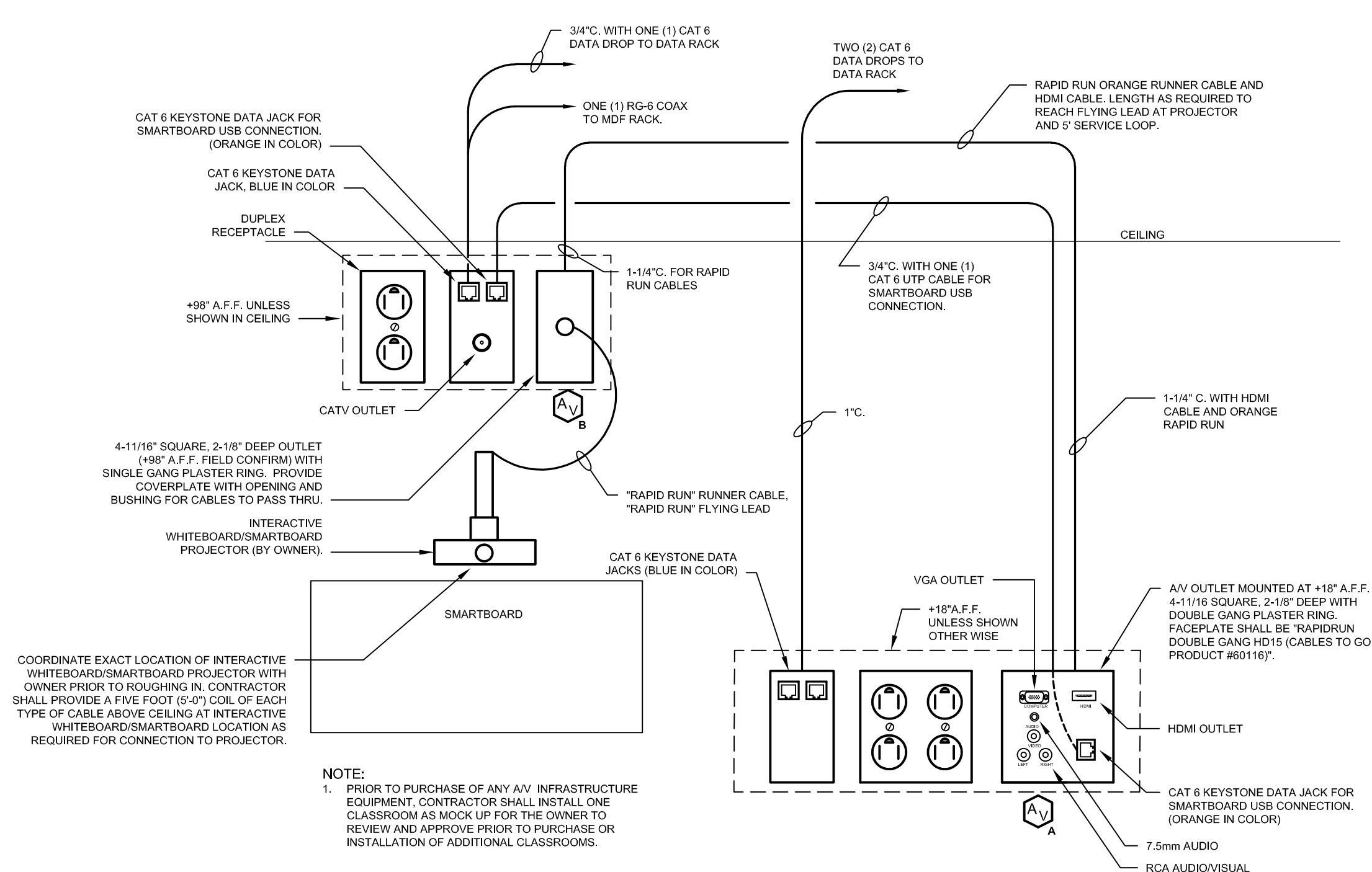
DRAWING TITLE

POWER AND
SYSTEMS PLAN

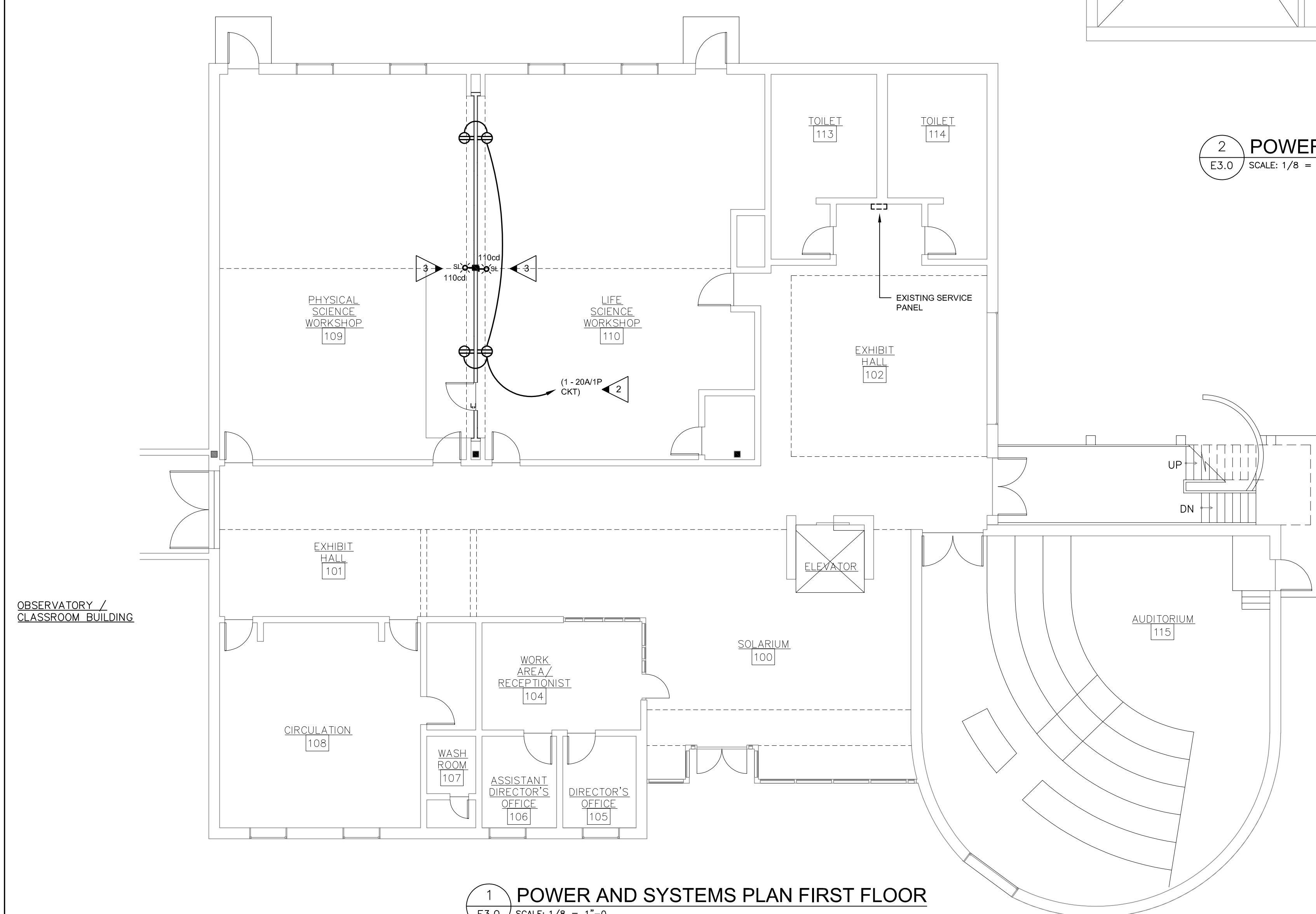
PROJECT NO.	17-17	DRAWING NO.	E3.0
DATE	02-19-2018		
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2 POWER AND SYSTEMS PLAN SECOND FLOOR - ADD ALTERNATE #1
E3.0 SCALE: 1/8" = 1'-0"



3 AUDIOVISUAL OUTLET DETAIL
E3.0 SCALE: NONE



1 POWER AND SYSTEMS PLAN FIRST FLOOR
E3.0 SCALE: 1/8" = 1'-0"

