

# USC LANCASTER- STARR HALL PHASE II

OSE # H37-9517  
476 Hubbard Drive, Lancaster, SC

for



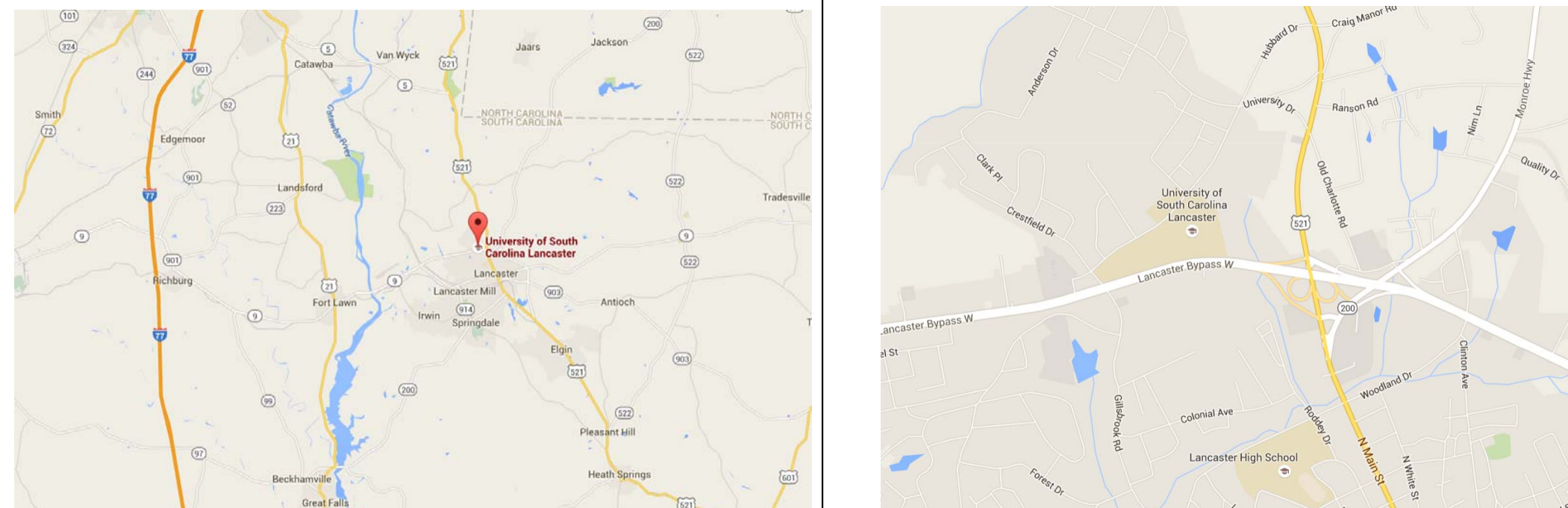
UNIVERSITY OF  
**SOUTH CAROLINA**  
LANCASTER

## PROJECT TEAM

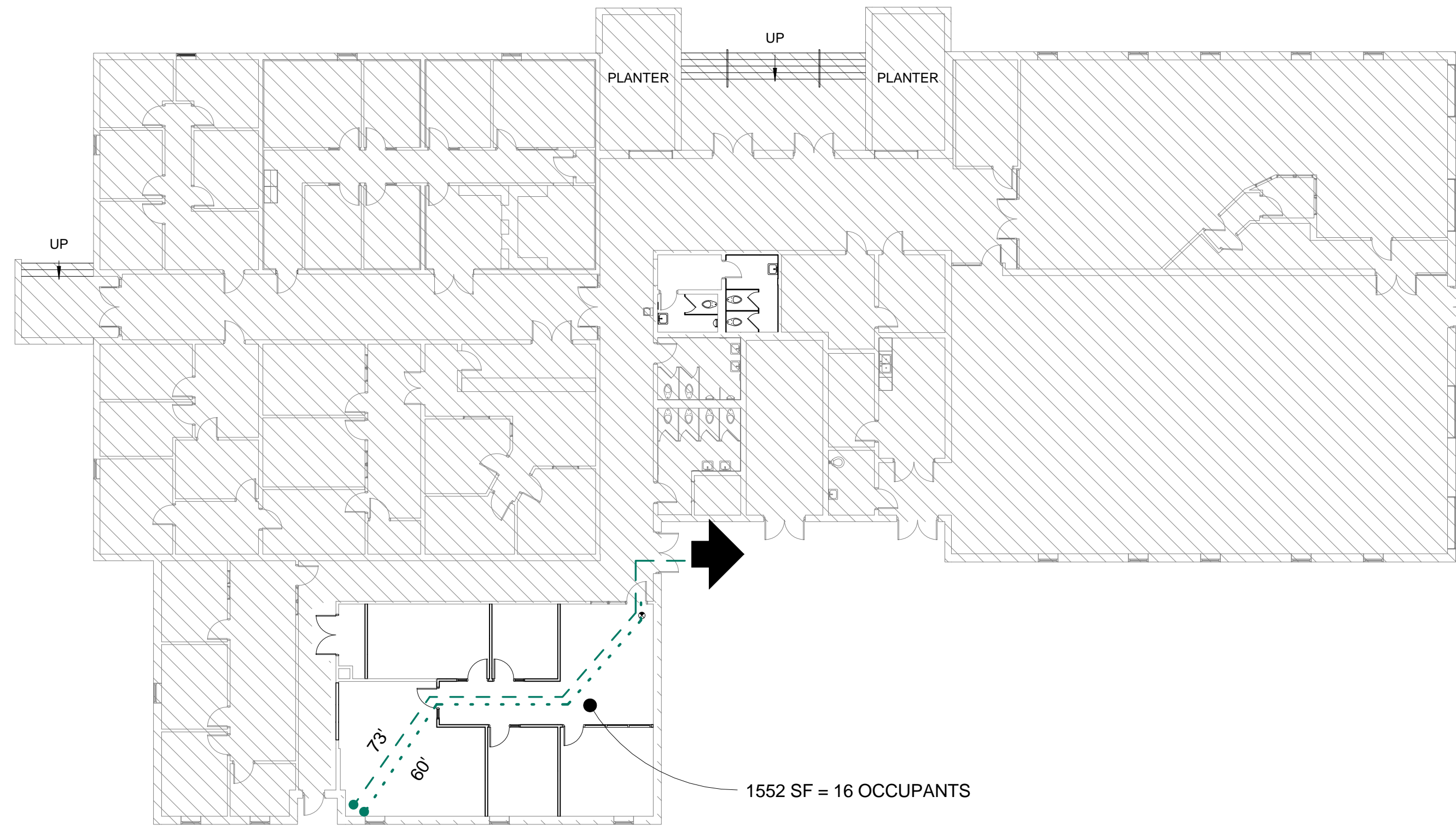
ARCHITECTS  
ELECTRICAL ENGINEERS

GOODWYN MILLS AND CAWOOD, INC.  
LAND ENGINEERING ASSOCIATES

## VICINITY MAP



## CAMPUS MAP

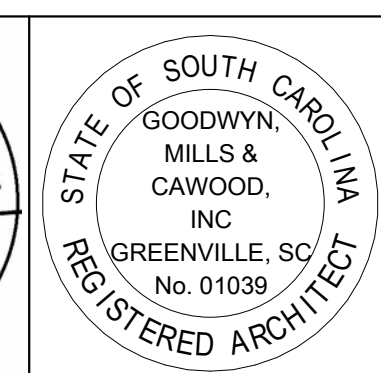
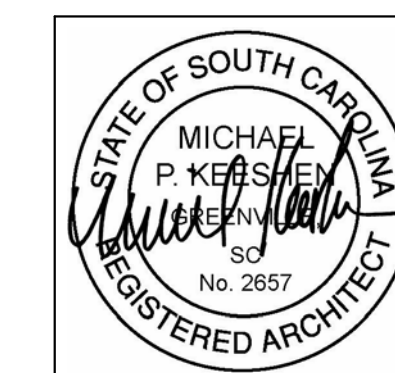


LIFE SAFETY LEGEND	
	NO WORK AREA
	EGRESS DIRECTION
	EXIT SIGN
	145' - MAXIMUM TRAVEL DISTANCE TO EXIT
	45' - COMMON PATH OF TRAVEL

## LIFE SAFETY, BUILDING CODE, AND SHEET INFORMATION

INDEX OF DRAWINGS	
No.	Sheet Name
<b>1. Architecture</b>	
A001	TITLE SHEET
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A102	OVERALL RENOVATION PLAN
A104	DOOR SCHED. & DETAILS, ROOM FINISH SCHED.
A103	ENLARGED PLANS STUDENT AFFAIRS
A105	ENLARGED PLANS FACULTY TOILETS (ALTERNATE 1)
<b>2. Electrical</b>	
E1.00	GENERAL NOTES, LEGEND, AND SCHEDULES
E2.00	ELECTRICAL DEMOLITION PLAN
E3.00	LIGHTING DEMOLITION PLAN
E4.00	ELECTRICAL RENOVATION PLAN
E5.00	LIGHTING RENOVATION PLAN
E6.00	FIRESTOP PENETRATION DETAILS

BUILDING CODE SUMMARY	
Name of Project:	USCL STARR HALL RENOVATIONS - PHASE II
Address:	476 Hubbard Dr. Lancaster SC 29720
Proposed Use:	BUSINESS (HIGHER EDUCATION)
Owner or Authorized Agent:	USC LANCASTER Phone # (803) 313-7000
Owned By:	<input type="checkbox"/> City/County <input type="checkbox"/> Private <input checked="" type="checkbox"/> State
Code Enforcement Jurisdiction:	<input type="checkbox"/> OSE / USC <input type="checkbox"/> County
LEAD DESIGN PROFESSIONAL:	
POSITION	FIRM NAME PHONE # E-MAIL
Architect	Goodwyn, Mills & Cawood Michael Keeshen 864.527.0460 mike.keeshen@gmnetwork.com
Project Mgr	Goodwyn, Mills & Cawood Wes Spires 864.527.0460 wes.spires@gmnetwork.com
YEAR EDITION OF CODE:	2012 International Existing Building Code
	<input type="checkbox"/> New Construction <input type="checkbox"/> Renovation (Existing Bldg.) <input checked="" type="checkbox"/> Uplift <input type="checkbox"/> Alteration
BUILDING DATA	IBC
Construction Type:	<input checked="" type="checkbox"/> II-B
Sprinklers:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Standpipes:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Fire District:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Building Height:	1 Story
Mezzanine:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
High Rise:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Gross Building Area (sq. ft.):	
FLOOR	EXISTING NEW RENOV/UPFIT
BASEMENT	NA NA NA
FIRST FLOOR	17400 0 1750
TOTAL	17400 0 1750
ALLOWABLE AREA	Primary Occupancy: <input checked="" type="checkbox"/> Business
FIRE PROTECTION REQUIREMENTS	Life Safety Plan Sheet #, if provided: A-001
BUILDING ELEMENT	Corridor Separation: NA Tenant Separation: NA
LIFE SAFETY SYSTEM REQUIREMENTS	Emergency Lighting: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Exit Signs: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Fire Alarm: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Smoke Detection Systems: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
EXIT REQUIREMENTS	NUMBER AND ARRANGEMENT OF EXITS
THE OCCUPANT LOAD WAS REDUCED. NO CHANGES TO EXISTING EGRESS COMPONENTS.	



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ISSUE	DATE
ISSUE FOR BID	09-09-16

STARR HALL RENOVATIONS - PHASE II

476 Hubbard Dr., Lancaster, SC 29720

GMC # AGRE160038

OSE # H27-D232-PD

ISSUE FOR BID

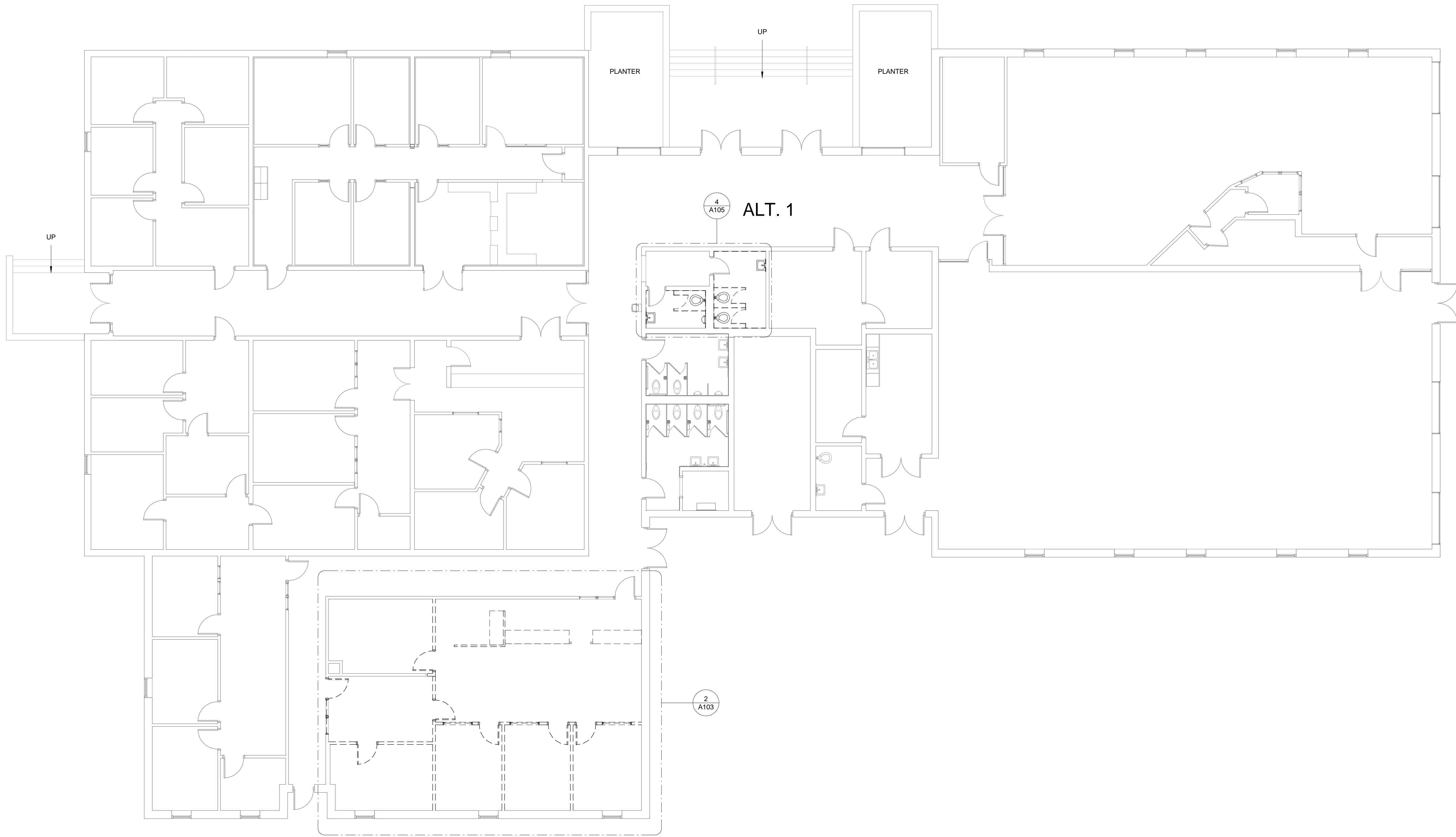
GOODWYN MILLS CAWOOD

101 East Washington Street, Suite 200 | Greenville, SC 29601  
Tel 864.527.0460 | GMCNETWORK.COM

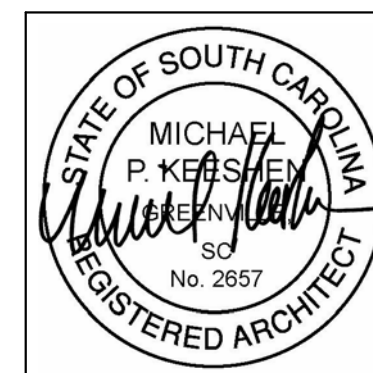
drawn by: JCB  
checked by: JVAS

TITLE SHEET

A001  
sheet of



① OVERALL DEMOLITION PLAN  
1/8" = 1'-0"



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OVERALL DEMOLITION  
PLAN

A101  
sheet of

STARR HALL RENOVATIONS - PHASE II

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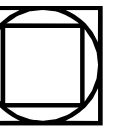
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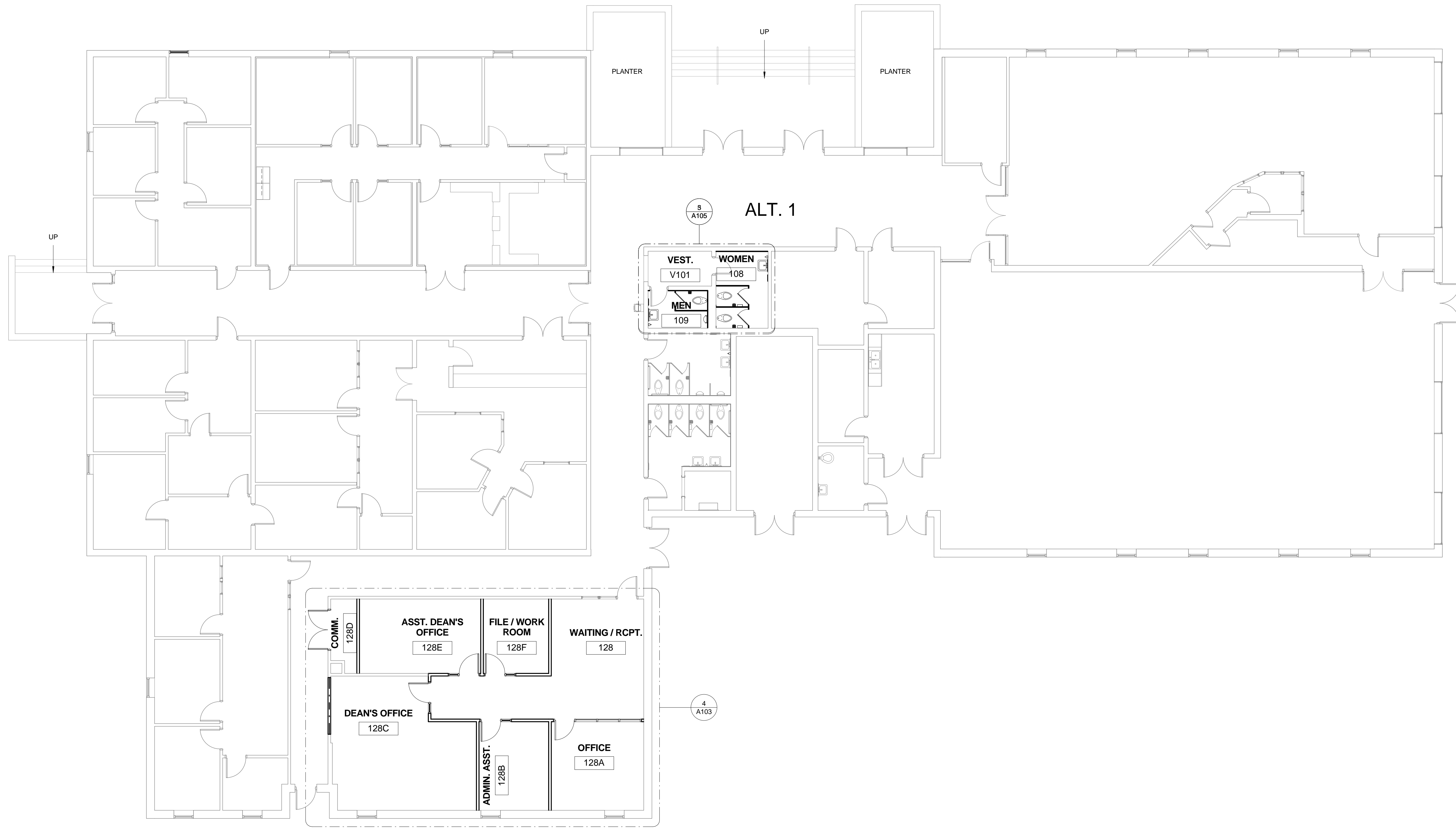
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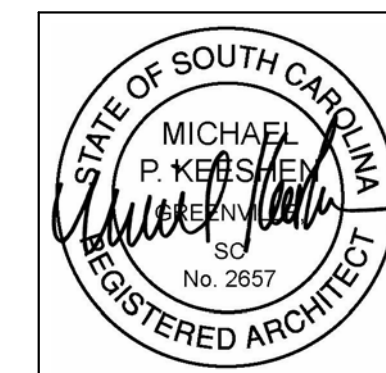
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1 OVERALL RENOVATION PLAN  
1/8" = 1'-0"



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OVERALL RENOVATION  
PLAN

A102  
sheet of

STARR HALL RENOVATIONS - PHASE II

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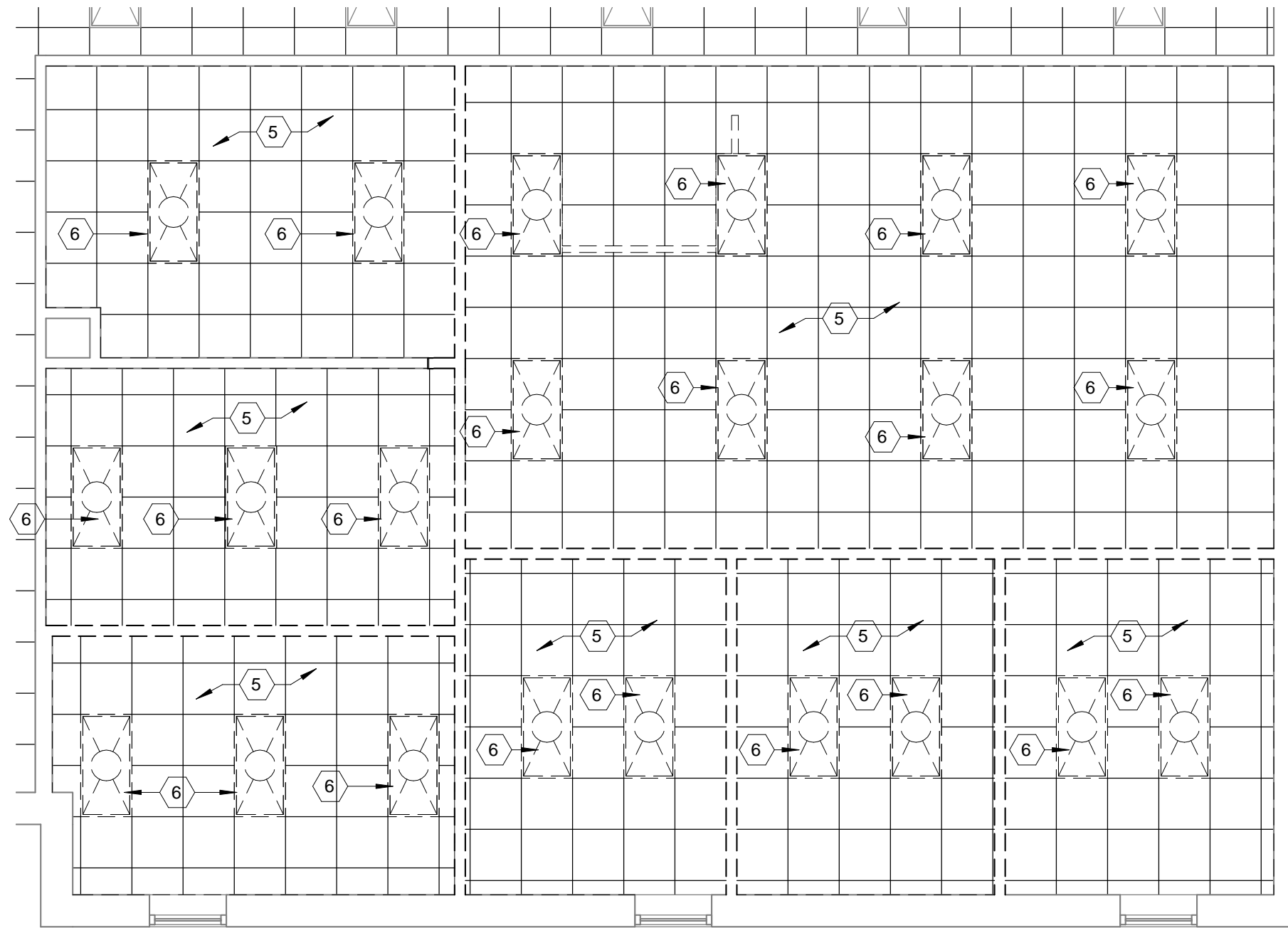
ISSUE DATE

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	09-09-16

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1 ENLARGED DEMOLITION RCP - ACADEMIC / STUDENT AFFAIRS  
3/16" = 1'-0"

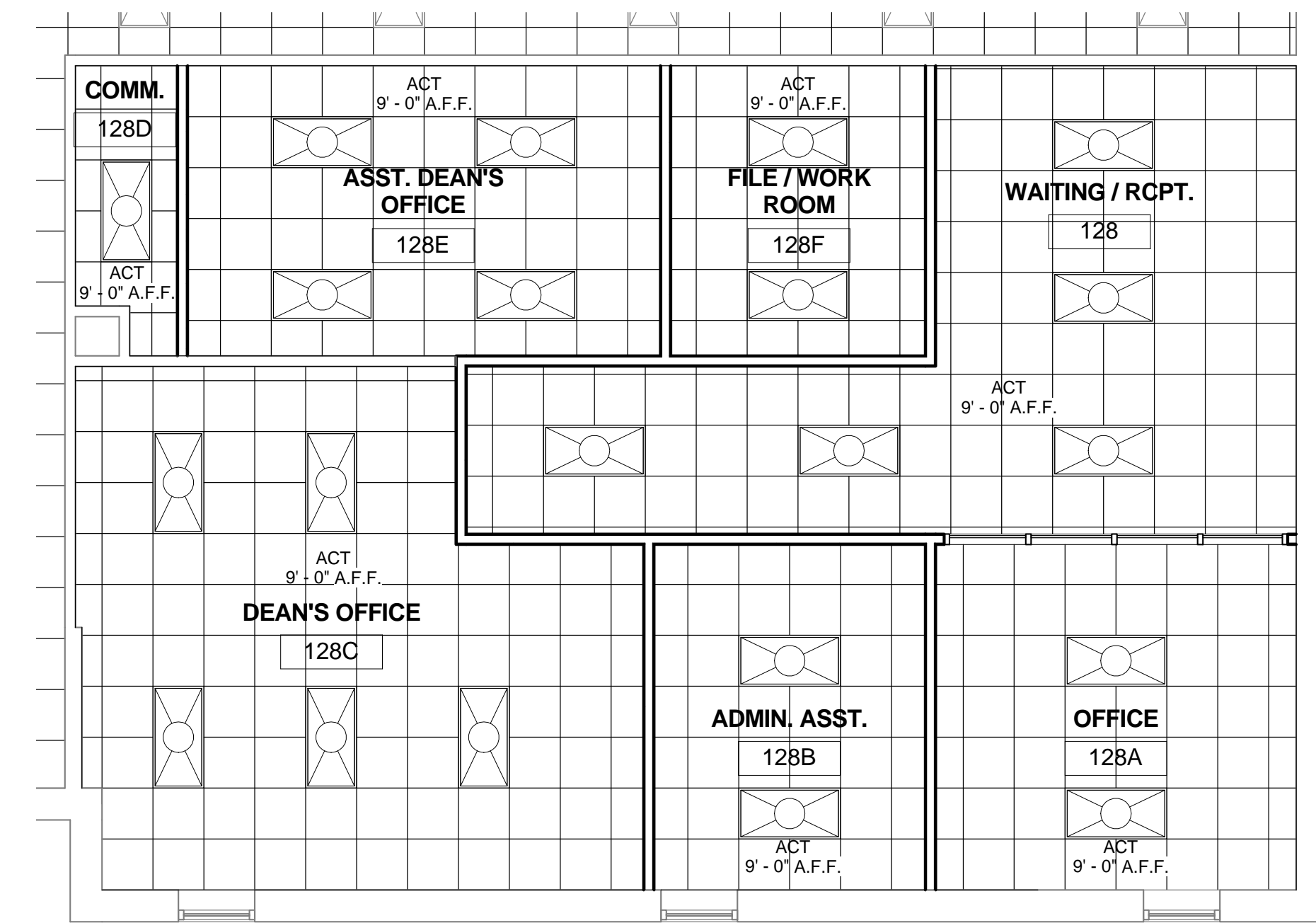
**REFLECTED CEILING PLAN**

**GENERAL NOTES**

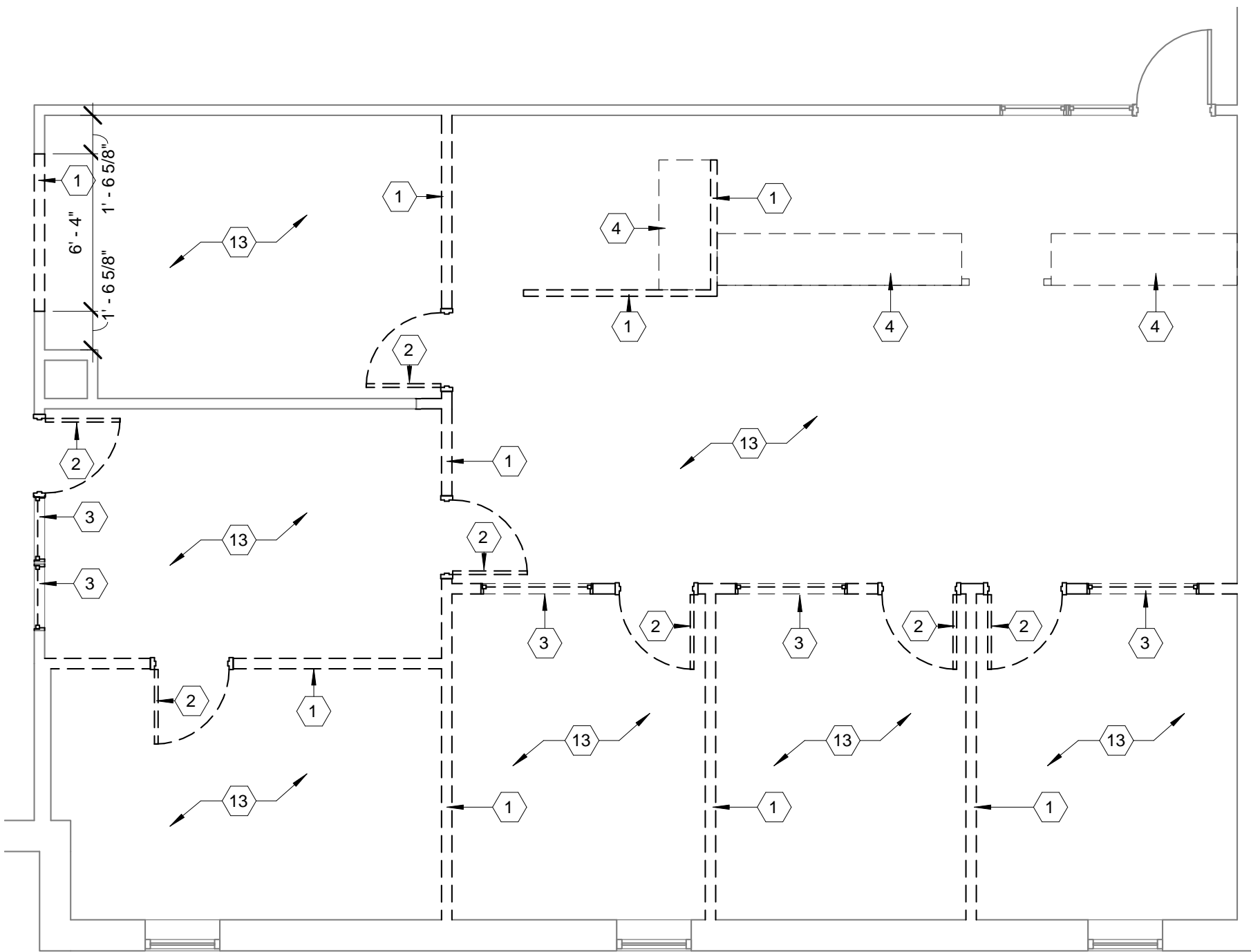
- INTERIOR CEILING HEIGHTS AS INDICATED ON THE REFLECTED CEILING PLANS.
- REFER TO CONSTRUCTION FLOOR PLANS FOR REQUIRED COMPOSITION OF WALL CONSTRUCTION.
- LOCATION OF LIGHTS, DIFFUSERS, AND RETURN AIR GRILLES TO BE COORDINATED BETWEEN REFLECTED CEILING PLANS AND LIGHTING PLANS. FINAL LOCATION TO BE APPROVED BY ARCHITECT.
- SEE SPECIFICATIONS FOR ADDITIONAL CEILING FINISH INFORMATION AND REQUIREMENTS. NOTIFY ARCHITECT WITH ANY DISCREPANCIES BETWEEN SPECIFICATION AND DRAWINGS.

**REFLECTED CEILING PLAN LEGEND**

<b>CEILING FINISHES:</b>	<b>LIGHTING:</b>
2X2' LAY-IN ACOUSTICAL CEILING AND GRID SYSTEM	2X4 LIGHT FIXTURE
<b>MECHANICAL:</b>	
SUPPLY DIFFUSER	CAN LIGHT
RETURN AIR GRILL	EXIT SIGN
EXHAUST FAN	



3 ENLARGED RENOVATION RCP - ACADEMIC / STUDENT AFFAIRS  
3/16" = 1'-0"



2 ENLARGED DEMOLITION PLAN - ACADEMIC / STUDENT AFFAIRS  
3/16" = 1'-0"

**DEMOLITION GENERAL NOTES**

- ALL MATERIALS THAT HAVE BEEN DEMOLISHED SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF PROPERLY. NO DEMOLISHED MATERIALS SHALL BE STOCKPILED.
- THE CONTRACTOR SHALL MAKE PERSONAL INSPECTION OF THE SITE AND INSPECT EVERYTHING REQUIRED BY THE DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES IN THE DRAWINGS.
- PROTECT OWNER'S PROPERTY AND PERSONS AT ALL TIMES. THIS INCLUDES ALL DEMO AND DISMANTLING AND REMOVAL OF WALLS, EQUIPMENT, PIPING, ETC. WHICH MAY INTERFERE WITH NEW CONSTRUCTION.
- ANY ITEMS THAT ARE NOT SHOWN TO BE DEMOLISHED THAT ARE DAMAGED SHALL BE REPAIRED BY CONTRACTOR.
- COORDINATE ANY SYSTEM SHUTDOWN WHICH MAY BE REQUIRED FOR NORMAL DAILY OPERATION WITH THE OWNER.
- PATCH AND PAINT ALL AREAS OF GYP. BOARD THAT ARE DAMAGED DURING DEMOLITION.
- CONTRACTOR IS RESPONSIBLE FOR ANY ASBESTOS ABATEMENT.
- MECHANICAL FIXTURES TO BE SALVAGED AND RELOCATED. VERIFY IN FIELD WITH OWNER.

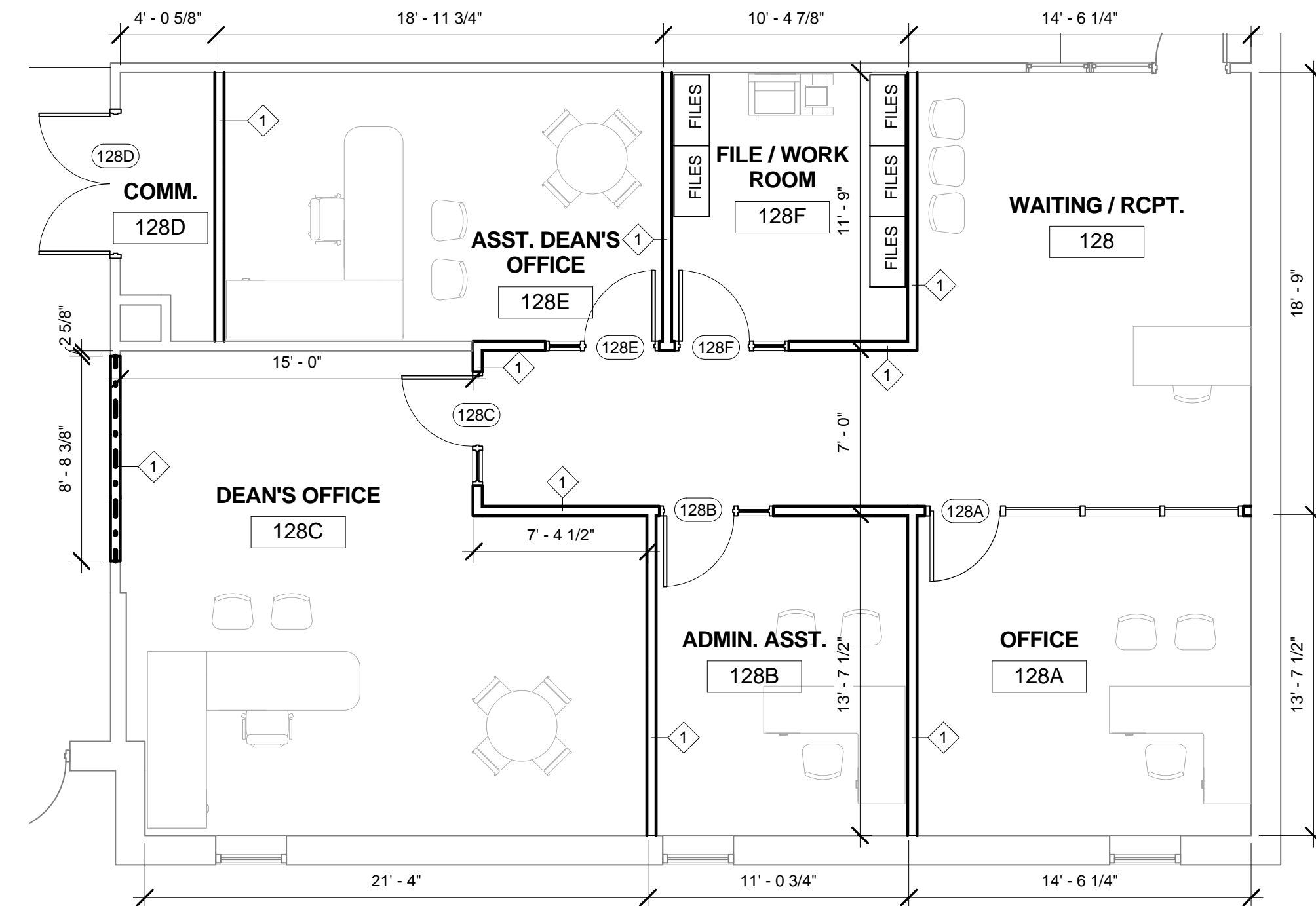
**DEMOLITION KEYED NOTES**

**DEMO PLAN NOTES**

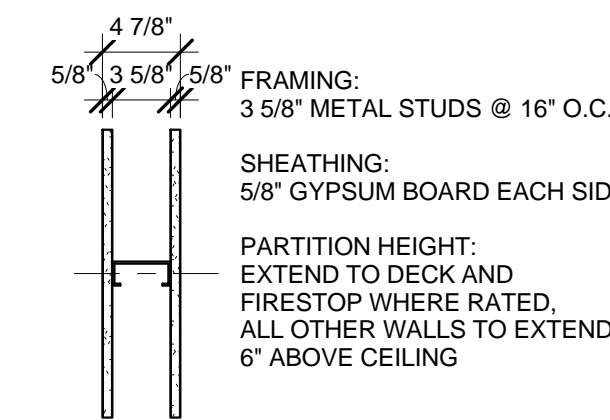
- REMOVE WALL OR PORTION OF WALL AS REQUIRED
- REMOVE DOOR AND FRAME, SALVAGE AND TURN OVER TO OWNER
- REMOVE WINDOW AND FRAME, SALVAGE AND TURN OVER TO OWNER
- DEMOLISH ALL COUNTER TOPS AND CASEWORK
- DEMOLISH CEILING SYSTEM AND PREPARE FOR NEW SUSPENDED ACT CEILING
- DEMOLISH CEILING LIGHTING FIXTURES. ALL OTHER EXISTING CEILING FIXTURES TO BE RELOCATED (i.e. DIFFUSERS, SPEAKERS, ETC.)
- DEMOLISH TILE FLOOR AND WALL TILES, PREPARE SURFACES FOR NEW TILE SYSTEMS. HAZARDOUS MATERIAL ABATEMENT IS REQUIRED.
- DEMOLISH TOILET PARTITION AND DOOR
- DEMOLISH TOILET FIXTURE
- DEMOLISH URINAL
- DEMOLISH SINK
- DEMOLISH MIRROR
- DEMOLISH EXISTING FLOOR COVERING AND PREPARE SURFACE FOR NEW FLOORING

**DEMO PLAN KEY**

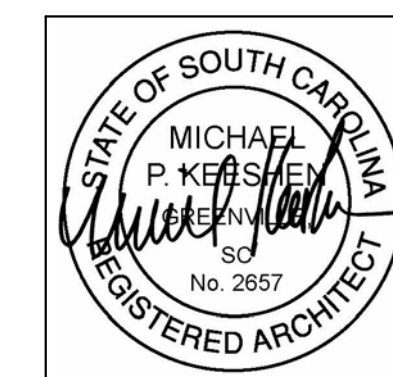
--- WALL TO BE REMOVED



4 ENLARGED RENOVATION PLAN - ACADEMIC / STUDENT AFFAIRS  
3/16" = 1'-0"



WALL TYPE 1



ENLARGED PLANS  
STUDENT AFFAIRS

A103  
sheet of

STARR HALL RENOVATIONS - PHASE II

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ISSUE FOR BID 09-09-16

drawn by: JCB

checked by: IVAS

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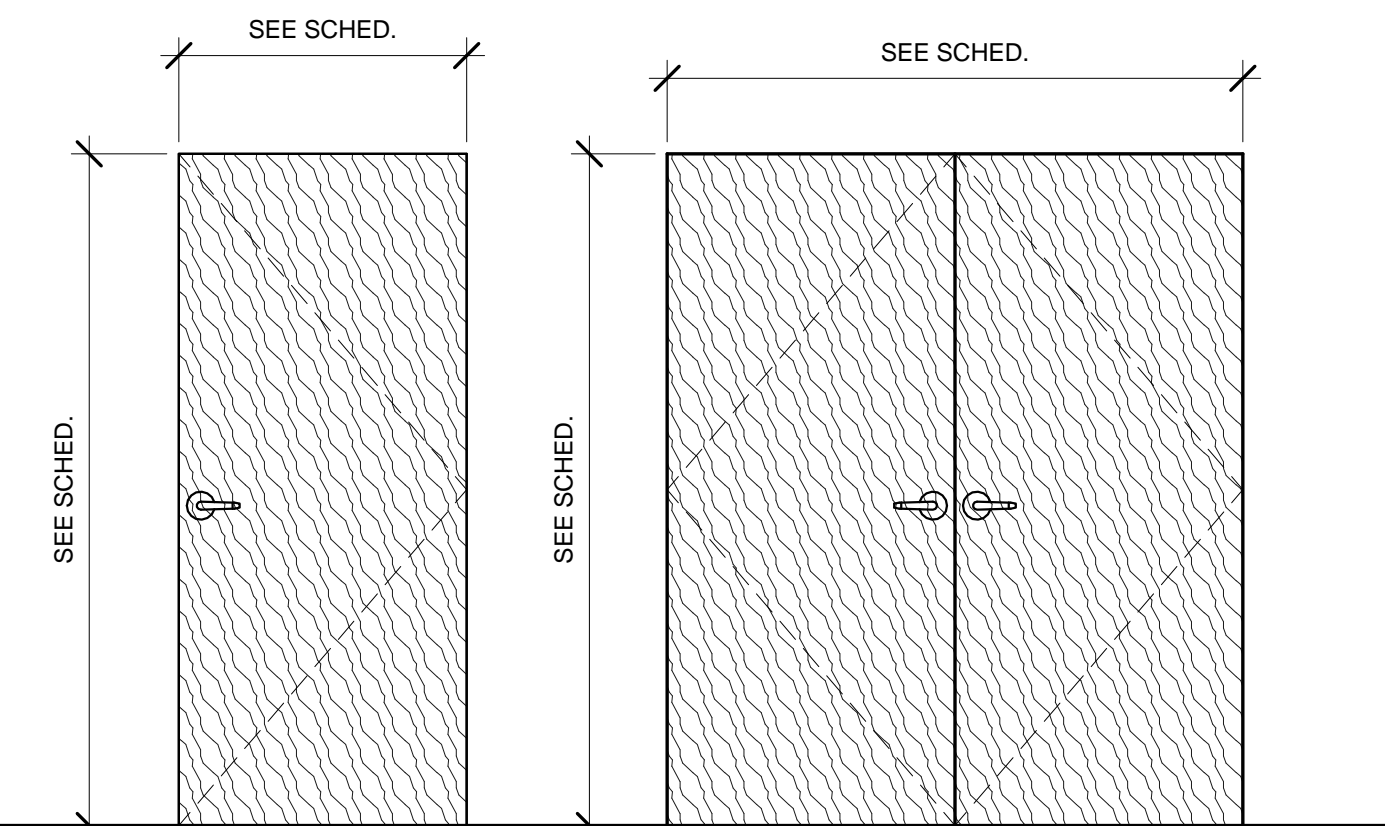
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ROOM FINISH SCHEDULE									
Number	Name	Floors		Walls				Ceiling Finish	Comments
		Floor Finish	Base Finish	N Wall Finish	E Wall Finish	S Wall Finish	W Wall Finish		
108	WOMEN	CT-1	CTB	CT-2	CT-2	CT-2	CT-2	ACT	ALT 1
109	MEN	CT-1	CTB	CT-2	CT-2	CT-2	CT-2	ACT	ALT 1
128	WAITING / RCPT.	CPT	RB	PNT	PNT	PNT	PNT	ACT	
128A	OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT	
128B	ADMIN. ASST.	CPT	RB	PNT	PNT	PNT	PNT	ACT	
128C	DEAN'S OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT	
128D	COMM.	VCT	RB	PNT	PNT	PNT	PNT	ACT	
128E	ASST. DEAN'S OFFICE	CPT	RB	PNT	PNT	PNT	PNT	ACT	
128F	FILE / WORK ROOM	CPT	RB	PNT	PNT	PNT	PNT	ACT	
V101	VEST.	ETR	ETR	ETR	ETR	ETR	ETR	ACT	ALT 1

FINISH LEGEND					
FLOOR			WALL		
NUMBER	TYPE	DETAIL DESCRIPTION	NUMBER	TYPE	DETAIL DESCRIPTION
CPT	CARPET	Manufacturer: BONITZ MATCH EXISTING ADMISSIONS OFFICE	PNT-1	FIELD PAINT	Manufacturer: Sherwin Williams Paints Type: LATEX EGG SHELL Color: FULL RANGE
VCT	VINYL COMPOSITE TILE	OWNER FURNISHED OWNER INSTALLED	PNT-2	HOLLOW METAL DOOR FRAME PAINT	Manufacturer: Sherwin Williams Paints Type: LATEX ENAMEL Color: FULL RANGE
CT-1	CERAMIC TILE	Manufacturer: DAL TILE Style Name: CITY VIEW Color: VIEW RANGE Size: 12" X 12" Rotation: ON 45	CT-2	CERAMIC TILE	Manufacturer: DAL TILE Style Name: CITY VIEW Color: VIEW RANGE Size: 12" X 12" Rotation: NONE
BASE			CEILING		
NUMBER	TYPE	DETAIL DESCRIPTION	NUMBER	TYPE	DETAIL DESCRIPTION
RB	RUBBER BASE	OWNER FURNISHED OWNER INSTALLED	ACT	NEW ACOUSTICAL CEILING TILE SYSTEM	PRODUCT EQUAL TO Manufacturer: ARMSTRONG Name: FINE FISSURED Style: ANGLED TEGULAR Suspension System 15/16" Grid Color: White Size: 24" x 24"
CTB	CERAMIC TILE BASE	Manufacturer: DAL TILE Style Name: CITY VIEW Color: VIEW RANGE Size: 12" X 12" Rotation: ON 45			

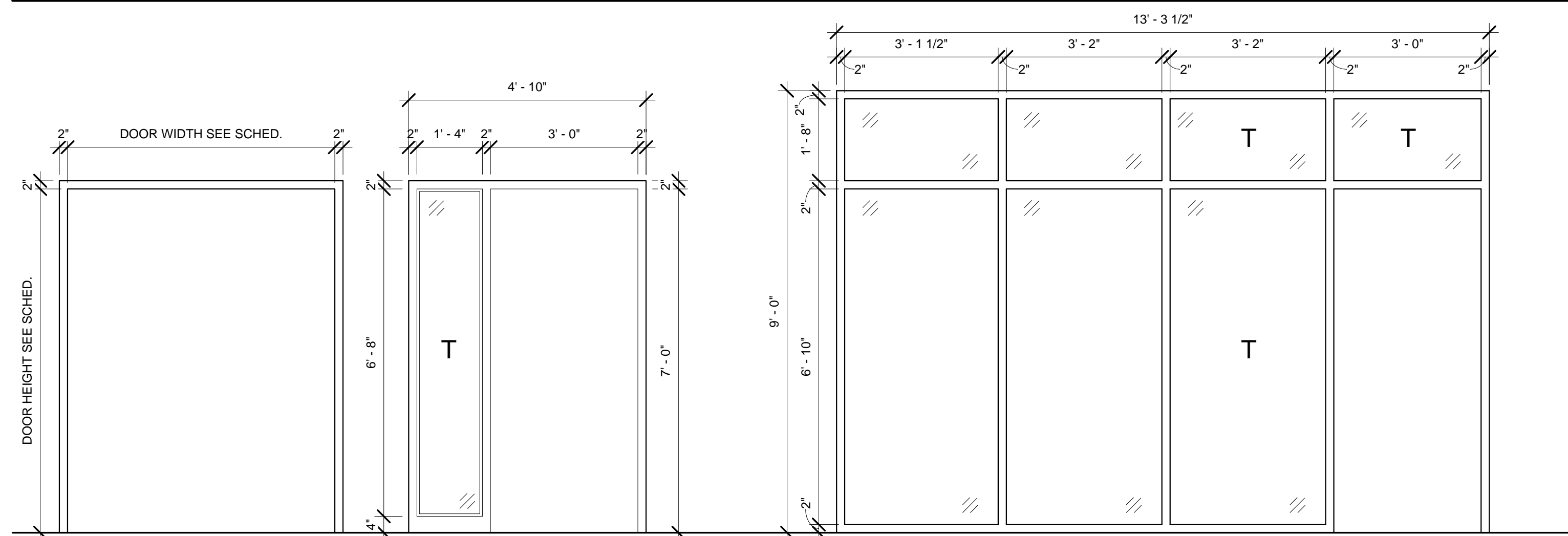
## DOOR TYPES



WD-1  
FLUSH SOLID CORE  
WOOD VENEER DOOR

WD-2  
PAIR OF FLUSH SOLID  
CORE WOOD VENEER  
DOORS

## FRAME TYPES



F1  
HOLLOW METAL  
FRAME

F2  
NEW HOLLOW METAL  
FRAME WITH SIDE LIGHT

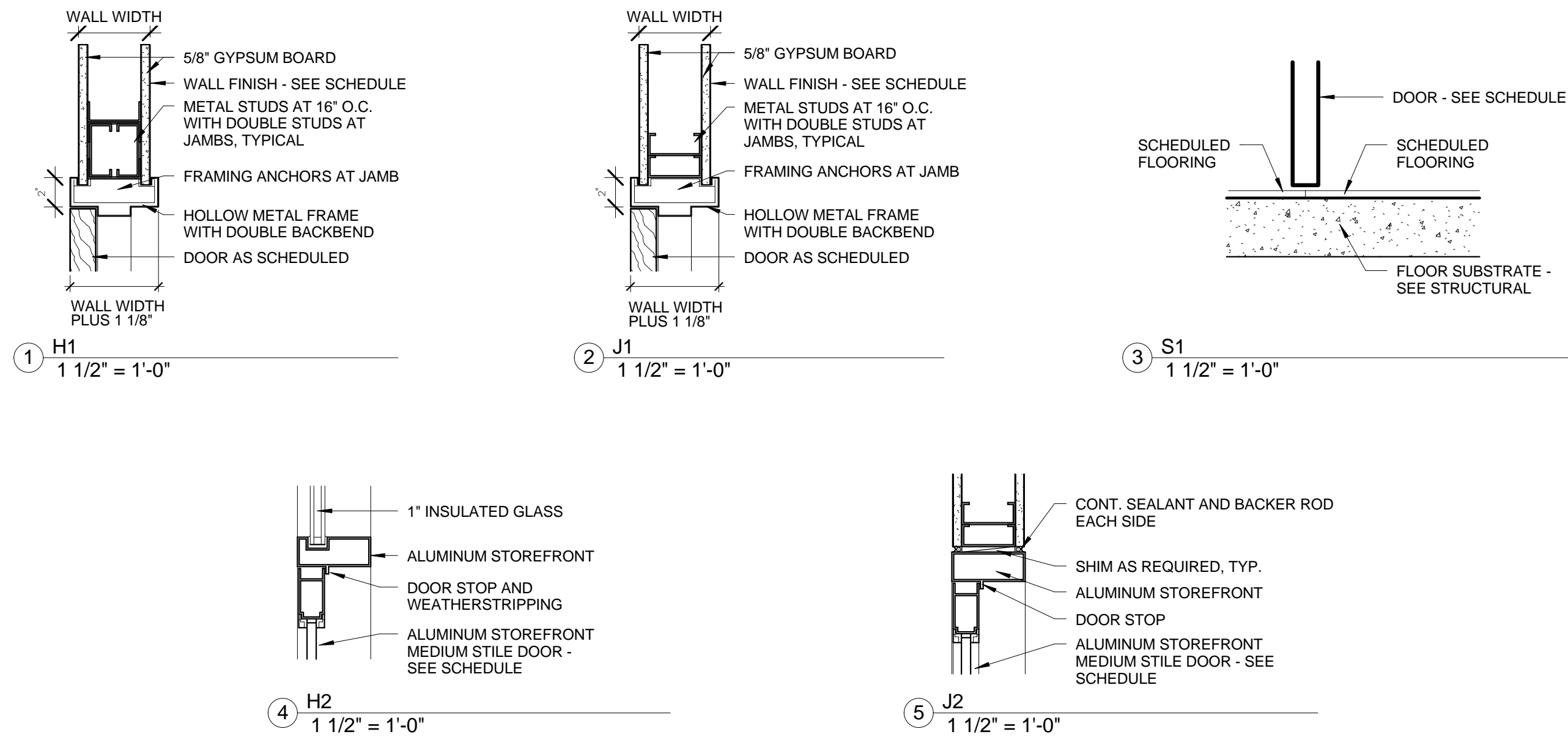
F3  
ALUMINUM  
STOREFRONT

T = TEMPERED

DOOR SCHEDULE														
Door Number	Door						Frame			Head	Jamb	Sill	Hardware Set	Comments
	Elev	Width	Height	Thk	Matl	Elev	Matl	Finish						
128A	WD-1	3' - 0"	7' - 0"	1 3/4"	WD	F3	ALUM	ALUM	H2	J2	S1	1		
128B	WD-1	3' - 0"	7' - 0"	1 3/4"	WD	F2	HM	PNT-2	H1	J1	S1	1		
128C	WD-1	3' - 0"	7' - 0"	1 3/4"	WD	F2	HM	PNT-2	H1	J1	S1	1		
128D	WD-2	6' - 0"	7' - 0"	1 3/4"	WD	F1	HM	PNT-2	H1	J1	S1	2		
128E	WD-1	3' - 0"	7' - 0"	1 3/4"	WD	F2	HM	PNT-2	H1	J1	S1	1		
128F	WD-1	3' - 0"	7' - 0"	1 3/4"	WD	F2	HM	PNT-2	H1	J1	S1	1		

## DOOR HARDWARE LEGEND

- HARDWARE SET #1:**  
 3 EA HINGE  
 1 EA MORTISE LOCKSET  
 3 EA SILENCER
- HARDWARE SET #2:**  
 6 EA HINGE  
 2 EA FLUSH BOLT  
 1 EA DUST PROOF STRIKE  
 1 EA MORTISE LOCKSET  
 2 EA SILENCER



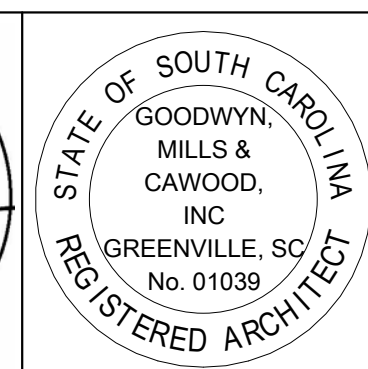
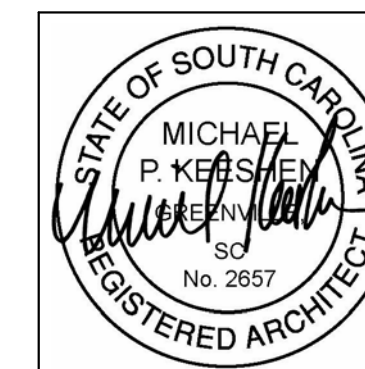
STARR HALL RENOVATIONS - PHASE II

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 OSE # H27-D232-PD  
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DOOR SCHED. &  
 DETAILS, ROOM FINISH  
 SCHED.

A104  
 sheet of



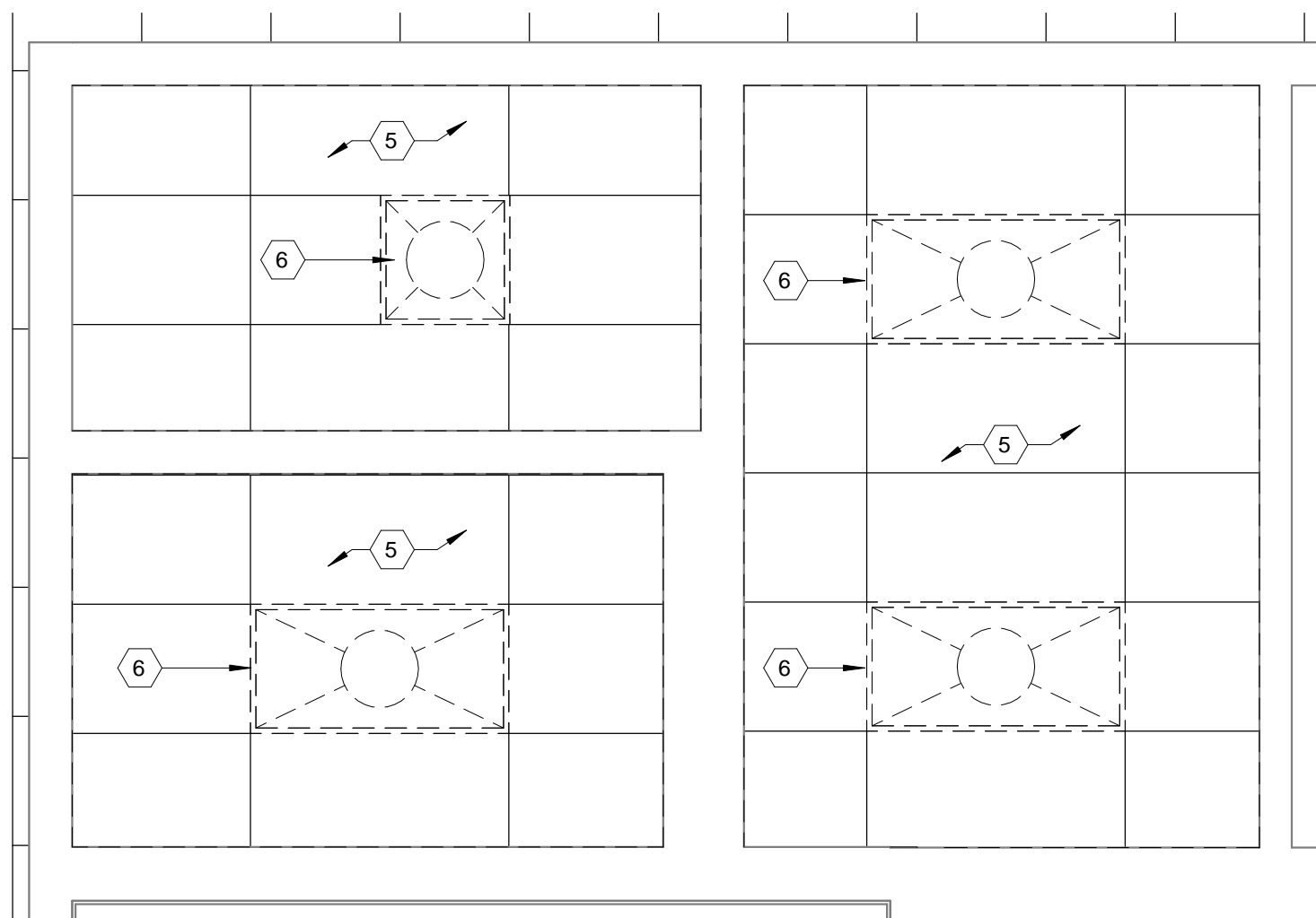
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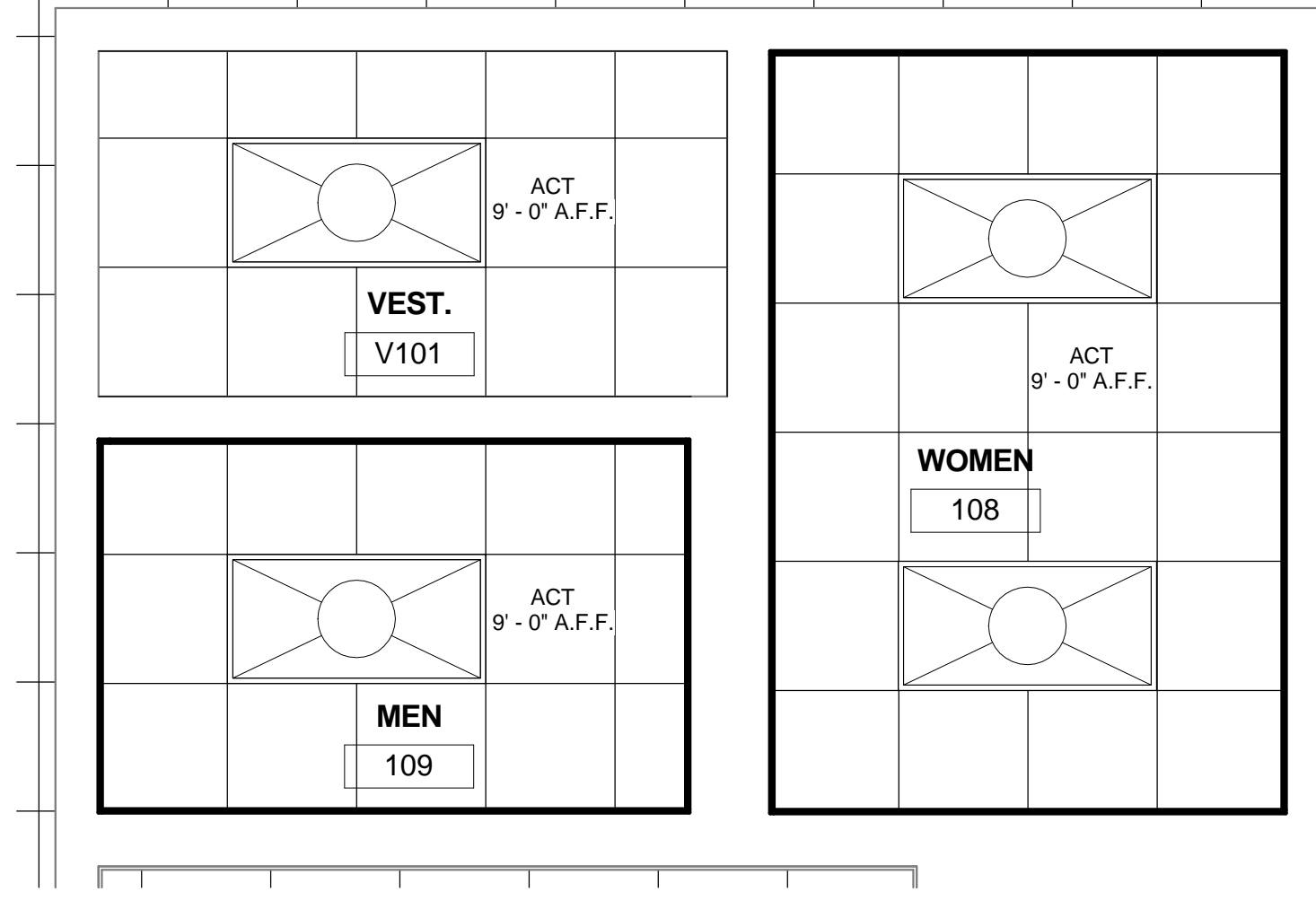
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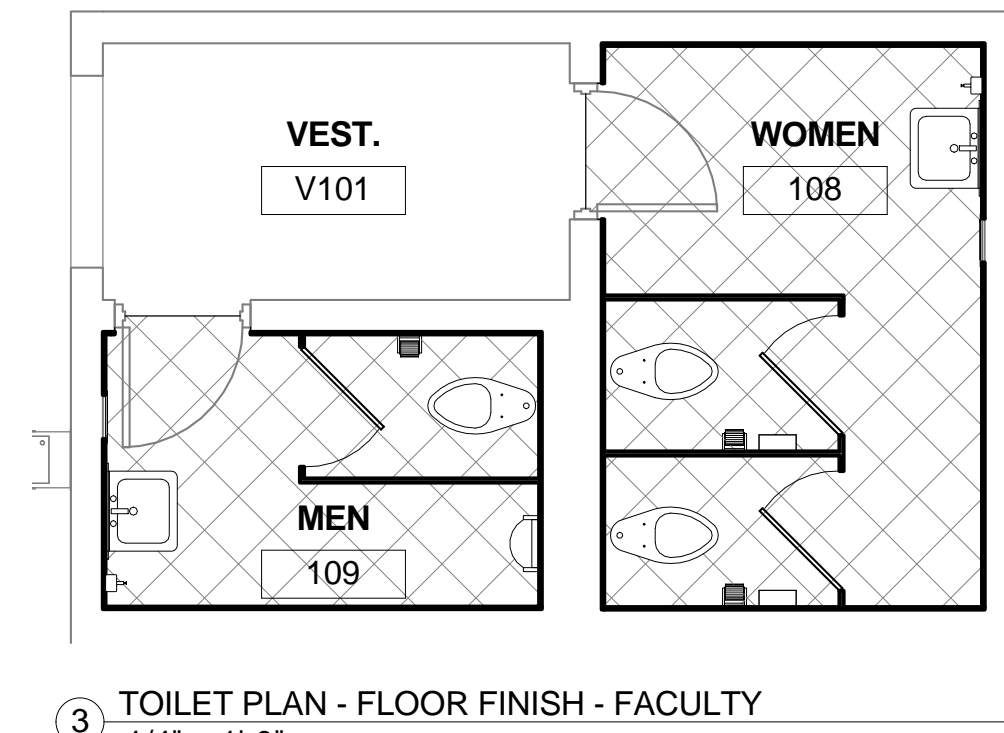
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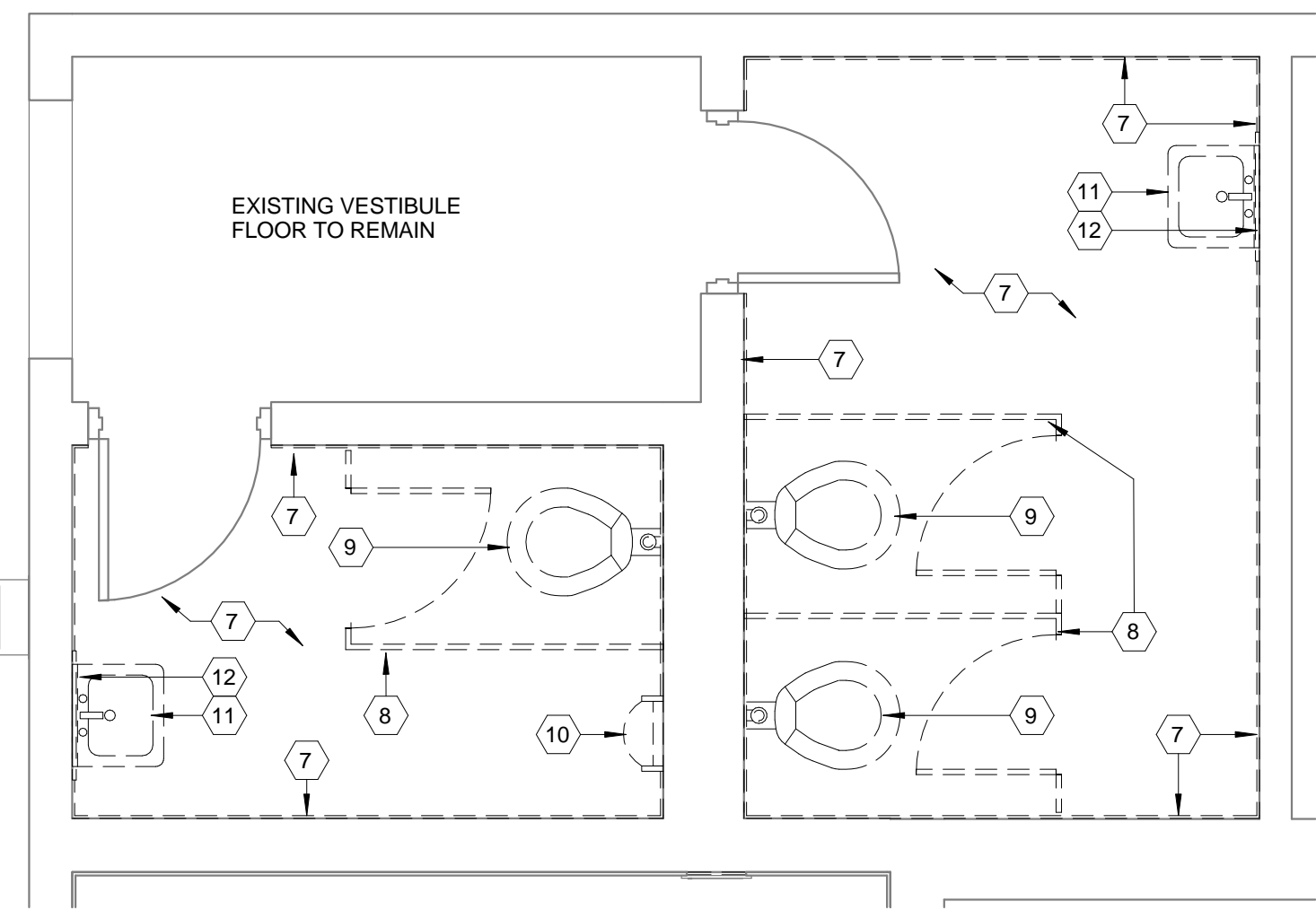
1 DEMO RCP FACULTY TOILETS - ALT #2  
3/8" = 1'-0"



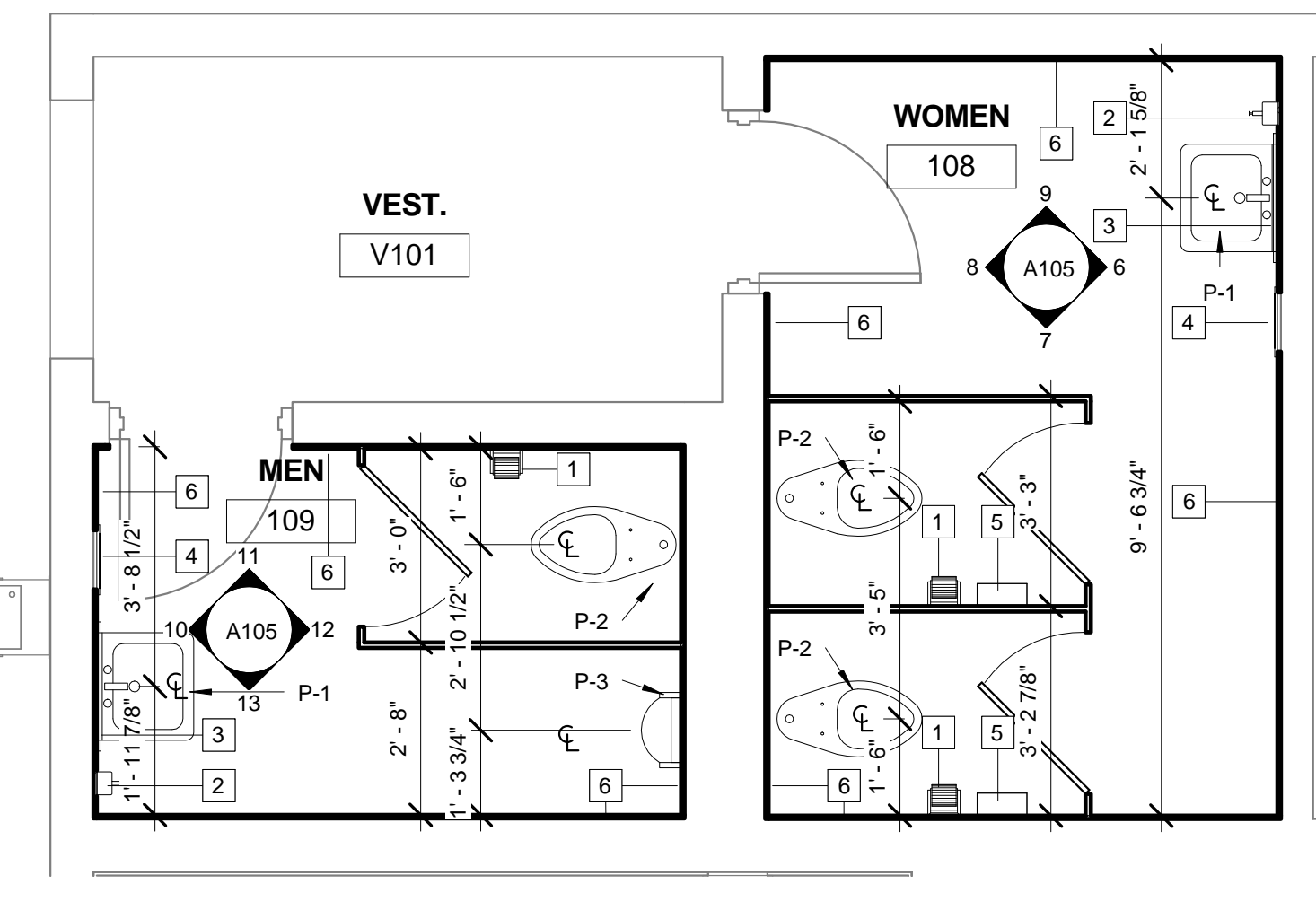
2 NEW CONSTRUCTION TOILET RCP - FACULTY  
3/8" = 1'-0"



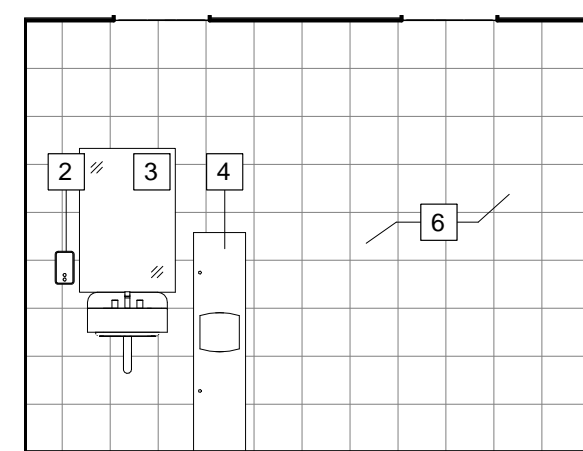
3 TOILET PLAN - FLOOR FINISH - FACULTY  
1/4" = 1'-0"



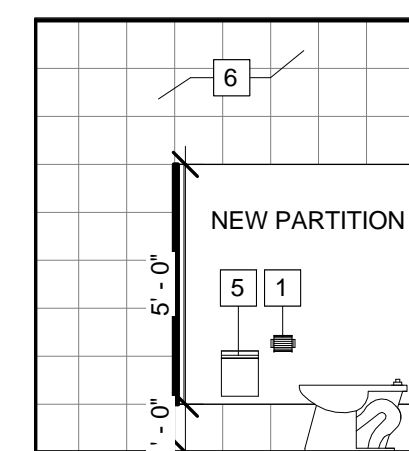
4 ENLARGED DEMOLITION PLAN - FACULTY TOILETS - ALT #2  
3/8" = 1'-0"



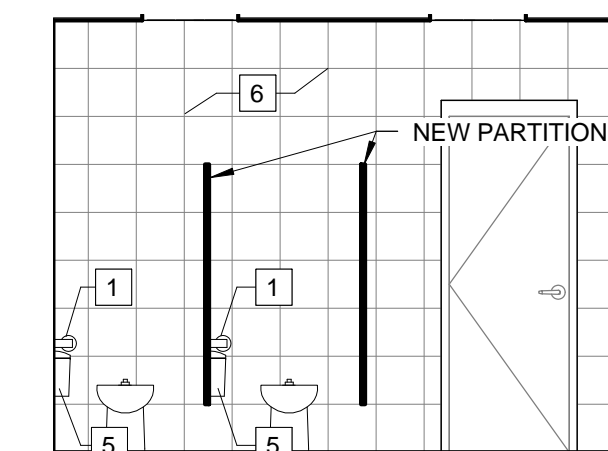
5 ENLARGED NEW CONSTRUCTION TOILET PLAN - FACULTY  
3/8" = 1'-0"



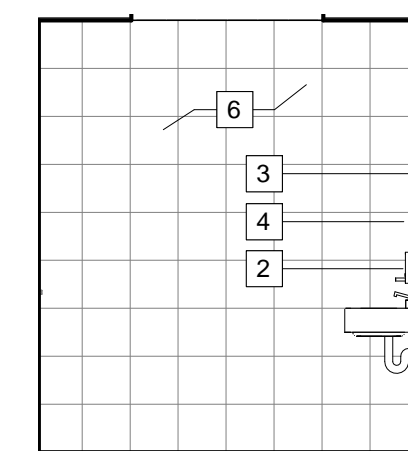
6 RM. 108 INT. ELEV. 6  
1/4" = 1'-0"



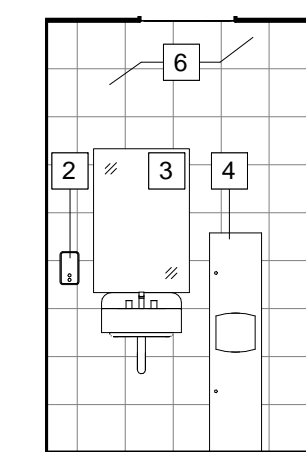
7 RM. 108 INT. ELEV. 7  
1/4" = 1'-0"



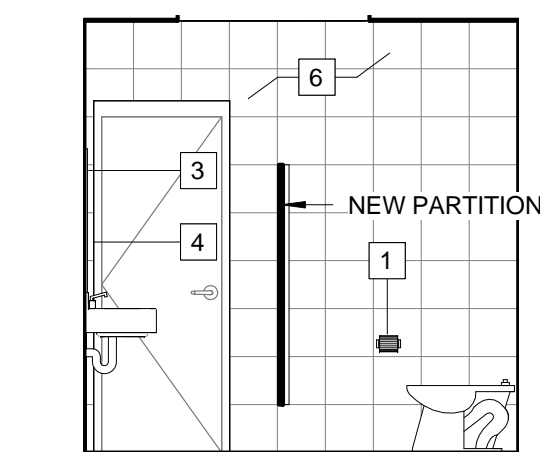
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1/4" = 1'-0"



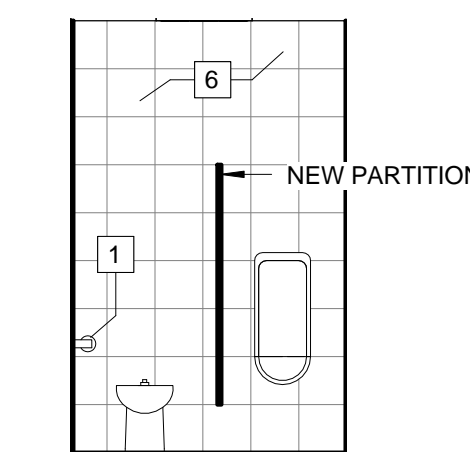
9 RM. 108 INT. ELEV. 9  
1/4" = 1'-0"



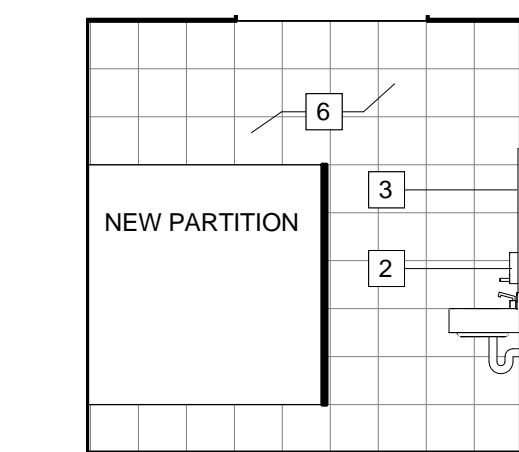
10 RM. 109 INT. ELEV. 10  
1/4" = 1'-0"



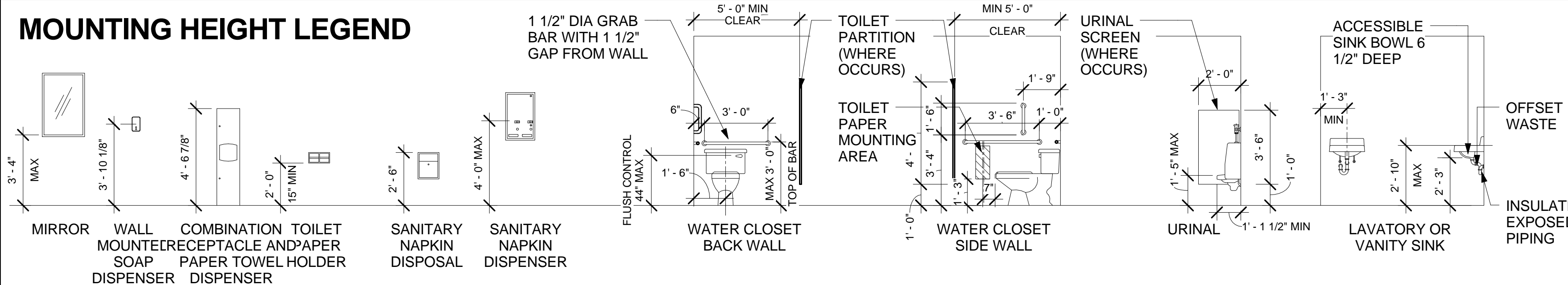
11 RM. 109 INT. ELEV. 11  
1/4" = 1'-0"



12 RM. 109 INT. ELEV. 12  
1/4" = 1'-0"

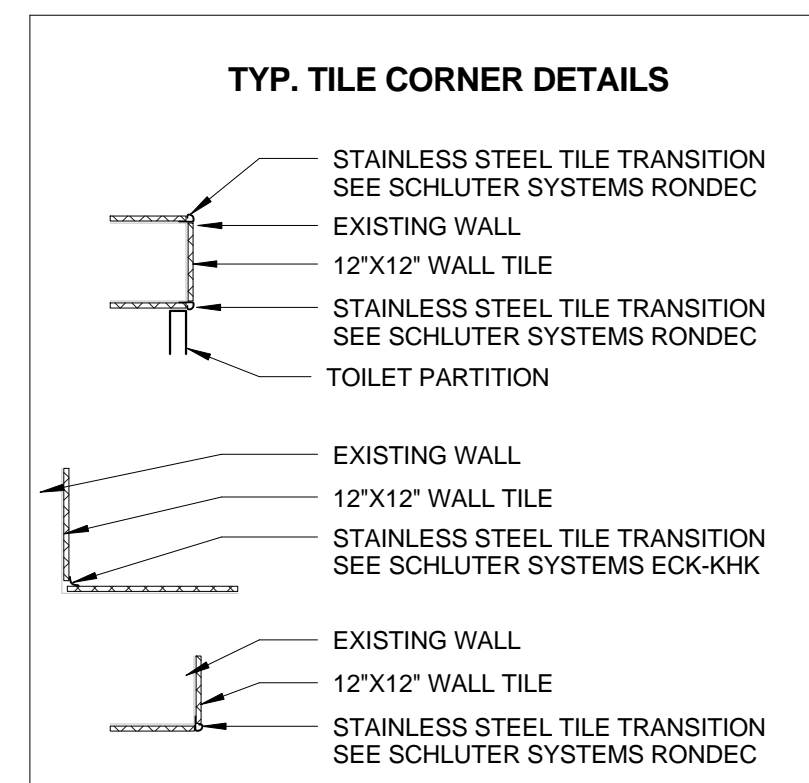


13 RM. 109 INT. ELEV. 13  
1/4" = 1'-0"



PLUMBING FIXTURE SCHEDULE		
NO.	FIXTURE	DESCRIPTION
P-1	WALL MOUNT LAVATORY AND FAUCET	EQUAL TO KOHLER CHESAPEAKE WALL-MOUNT LAVATORY, K-1722 EQUAL TO ZURN AQUASENSE SENSOR FAUCET, Z6915 EQUAL TO ZURN SOLID TOP, OPEN-GRID FULL OUT PLUGS EQUAL TO ZURN SEMI-CAST P-TRAPS WITH WALL BEND EQUAL TO ZURN STANDARD STOP WITH FLEXIBLE LAVATORY SUPPLY EQUAL TO JONES STEPHENS CHROME PLATED NIPPLES & PIPE LENGTHS, 90 & 45 DEG ELBOW & STREET ELBOW, TEE EQUAL TO IPS CORPORATION LAVATORY GUARD FAST FIT UNDERSINK PIPING COVERS
P-2	TOILET AND FLUSH VALVE FOR WATER CLOSET	EQUAL TO KOHLER HIGHCREST FLOOR-MOUNT TOILET, K-4302-0 EQUAL TO KOHLER LUSTRA TOILET SEAT, K-4670-C-0 EQUAL TO ZURN AQUASENSE AV MODEL, ZER 6000AV-WSI VERIFY ROUGH IN.
P-3	URINAL AND FLUSH VALVE	EQUAL TO KOHLER BARDON URINAL, K-4904-ET EQUAL TO ZURN AQUASENSE MODEL, ZER 6001-AV-CPM VERIFY ROUGH IN.

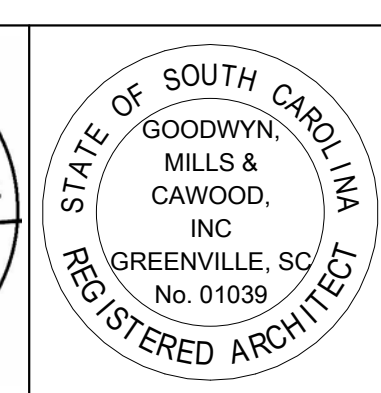
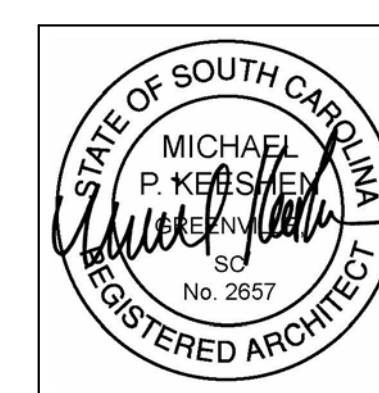
TOILET ACCESSORIES LEGEND	
1	TOILET PAPER DISPENSER BY OWNER
2	SOAP DISPENSER BY OWNER
3	24" W X 36" H MIRROR
4	PAPER TOWEL DISPENSER / TRASH RECEPTACLE BY OWNER
5	SANITARY NAPKIN DISPOSAL BY OWNER
6	NEW WALL TILE. SEE ELEV.



FINISH LEGEND		
FLOOR		
NUMBER	TYPE	DETAIL DESCRIPTION
CT-1	CERAMIC TILE	Manufacturer: DAL TILE Style Name: CITY VIEW Color: VIEW RANGE Size: 12" X 12" Rotation: ON 45
WALL		
CT-2	CERAMIC TILE	Manufacturer: DAL TILE Style Name: CITY VIEW Color: VIEW RANGE Size: 12" X 12" Rotation: NONE
CEILING		
ACT	ACOUSTICAL CEILING TILE SYSTEM	Manufacturer: ARMSTRONG Name: FINE FISSURED Style: ANGLED TIGULAR Color: WHITE Size: 24" x 24"
TOILET PARTITION		
TP-1	TOILET PARTITION SYSTEM	Manufacturer: CAROLINA PARTITIONS Name: Style: Finish: Color:

DEMOLITION GENERAL NOTES	
A.	ALL MATERIALS THAT HAVE BEEN DEMOLISHED SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF PROPERLY. NO DEMOLISHED MATERIALS SHALL BE STOCKPILED.
B.	THE CONTRACTOR SHALL MAKE PERSONAL INSPECTION OF THE SITE AND INSPECT EVERYTHING REQUIRED BY THE DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES IN THE DRAWINGS.
C.	PROTECT OWNER'S PROPERTY AND PERSONS AT ALL TIMES. THIS INCLUDES ALL DEMO AND DISMANTLING AND REMOVAL OF WALLS, EQUIPMENT, PIPING, ETC. WHICH MAY INTERFERE WITH NEW CONSTRUCTION.
D.	ANY ITEMS THAT ARE NOT SHOWN TO BE DEMOLISHED THAT ARE DAMAGED SHALL BE REPAIRED BY CONTRACTOR.
E.	COORDINATE ANY SYSTEM SHUTDOWN WHICH MAY BE REQUIRED FOR NORMAL DAILY OPERATION WITH THE OWNER.
F.	PATCH AND PAINT ALL AREAS OF GYP. BOARD THAT ARE DAMAGED DURING DEMOLITION.
G.	CONTRACTOR IS RESPONSIBLE FOR ANY ASBESTOS ABATEMENT.
H.	MECHANICAL FIXTURES TO BE SALVAGED AND RELOCATED. VERIFY IN FIELD WITH OWNER

DEMOLITION KEYED NOTES	
DEMO PLAN NOTES	
1	REMOVE WALL OR PORTION OF WALL AS REQUIRED
2	REMOVE DOOR AND FRAME, SALVAGE AND TURN OVER TO OWNER
3	REMOVE WINDOW AND FRAME, SALVAGE AND TURN OVER TO OWNER
4	DEMOLISH ALL COUNTER TOPS AND CASEWORK
5	DEMOLISH CEILING SYSTEM AND PREPARE FOR NEW SUSPENDED ACT CEILING
6	DEMOLISH CEILING LIGHTING FIXTURES. ALL OTHER EXISTING CEILING FIXTURES TO BE RELOCATED (i.e. DIFFUSERS, SPEAKERS, ETC.)
7	DEMOLISH TILE FLOOR AND WALL TILES, PREPARE SURFACES FOR NEW TILE SYSTEMS. HAZARDOUS MATERIAL ABATEMENT IS REQUIRED.
8	DEMOLISH TOILET PARTITION AND DOOR
9	DEMOLISH TOILET FIXTURE
10	DEMOLISH URINAL
11	DEMOLISH SINK
12	DEMOLISH MIRROR
13	DEMOLISH EXISTING FLOOR COVERING AND PREPARE SURFACE FOR NEW FLOORING
DEMO PLAN KEY	
---	WALL TO BE REMOVED



**GENERAL CONSTRUCTION NOTES**

- PROVIDE ALL WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
 

INTERNATIONAL BUILDING CODE	2015 EDITION
NFPA 70 - NATIONAL ELECTRICAL CODE	2014 EDITION
ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	2009 EDITION
- PROVIDE NEW RACEWAY AND WIRING TO ALL DEVICES, FIXTURES, AND EQUIPMENT INDICATED ON THE CONTRACT DRAWINGS. THE DRAWINGS INDICATE PARTIAL RACEWAY AND WIRING REQUIREMENTS TO HELP CLARIFY DESIGN INTENT. WHERE RACEWAY AND/OR WIRING IS NOT INDICATED FOR DEVICES, FIXTURES, OR EQUIPMENT THE ARRANGEMENT, GROUPING, AND ROUTING SHALL BE PROVIDED IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE.
- PROVIDE FIXTURES AS SHOWN IN THE LIGHTING FIXTURE SCHEDULE OR PRIOR-APPROVED EQUALS BY COOPER OR LITHONIA.
- ALL FIXTURES AND ELECTRICAL MATERIALS SHALL BE U.L. TESTED & LISTED OR BE TESTED & LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS SHALL BE 2-HOUR FIRESTOPPED IN ACCORDANCE WITH DETAILS SHOWN ON DRAWING E6.00.
- RACEWAYS SHALL BE EMT WITH COMPRESSION TYPE FITTINGS UNLESS NOTED OR DETAILED OTHERWISE. PROVIDE FIXTURE WHIPS THAT COMPLY WITH THE NATIONAL ELECTRICAL CODE.
- JUNCTION BOXES SHALL BE STEEL TYPE WITH SCREW COVER, SIZED AND SUPPORTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE JUNCTION BOXES AS REQUIRED FOR POWER AND CONTROL WIRING RENOVATIONS.
- INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL MEMBERS, OR OTHER SYSTEMS.
- PROVIDE SEISMIC WIRE SUPPORTS TO SUPPORT ALL NEW LIGHTING FIXTURES - ENSURE INSTALLATION COMPLIES WITH ASTM E-580 AND THE INTERNATIONAL BUILDING CODE (ONE WIRE FOR EACH EXIT SIGN AND TWO WIRES FOR ALL OTHER LIGHTING FIXTURES).
- THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. THE CONTRACTOR SHALL INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL FIXTURES AND SYSTEMS. FURNISH 3 SETS OF OPERATION AND MAINTENANCE MANUALS TO THE OWNER FOR THE INSTALLED LIGHTING SYSTEM.
- THE CONTRACTOR SHALL GUARANTEE THE WORK INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIATED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER. SEE SPECIAL LIGHTING WARRANTY REQUIREMENTS IN LIGHTING FIXTURE SCHEDULE.
- CUTTING, DRILLING, AND PATCHING: PROVIDE CHASES, SLOTS, AND OPENINGS IN EXISTING BUILDING COMPONENTS TO ALLOW FOR ELECTRICAL INSTALLATIONS. PERFORM CUTTING, DRILLING, FITTING, AND PATCHING REQUIRED TO:
  - INSTALL EQUIPMENT, MATERIALS, AND RACEWAYS IN EXISTING STRUCTURES.
  - REMOVE AND REPLACE DEFECTIVE WORK THAT DOES NOT CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.
  - UPON WRITTEN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER, UNCOVER AND RESTORE WORK TO PROVIDE FOR ARCHITECT/ENGINEER OBSERVATION OF CONCEALED WORK.
 PROTECT EXISTING STRUCTURES, FURNISHINGS, FINISHES, MECHANICAL SYSTEMS, AND ELECTRICAL SYSTEMS WHILE PERFORMING CUTTING, DRILLING, FITTING, AND PATCHING. PATCH EXISTING SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS THAT MATCH EXISTING MATERIALS. PATCHING SHALL BE PERFORMED BY EXPERIENCED INSTALLERS.

**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHTING FIXTURE - TYPE AS INDICATED ON PLAN. SEE THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL SYMBOLS AND TYPES.		QUADPLEX RECEPTACLE OUTLET, TWO NEMA 5-20R RECEPTACLES IN A SINGLE STEEL BOX. FLUSH MOUNT DEVICES IN WALL AT 18" AFF UNLESS NOTED OTHERWISE.
	SINGLE OR DOUBLE FACE EXIT SIGN, CEILING MOUNTED. PROVIDE DIRECTIONAL ARROWS/CHEVRONS AS INDICATED ON PLAN.		VOICE/DATA COMMUNICATIONS OUTLET. PROVIDE A 4" SQUARE STEEL BOX WITH SINGLE-GANG PLASTER RING FLUSH MOUNTED IN WALL AT 18" AFF UNLESS NOTED OTHERWISE. PROVIDE A ONE INCH EMT RACEWAY WITH PULL-STRING FROM OUTLET TO SPACE ABOVE ACOUSTICAL DROP CEILING. PROVIDE A FIBER BUSHING ON BOTH ENDS OF RACEWAY.
	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE WATTSTOPPER #DT300 WITH #8Z-50 UNIVERSAL VOLTAGE POWER PACK OR EQUAL. PROVIDE CONTROL AND LOW-VOLTAGE WIRING AS RECOMMENDED BY THE SENSOR MANUFACTURER.		EXISTING ELECTRICAL PANELBOARD - TO REMAIN IN PLACE. PROVIDE MODIFICATIONS AND ADDITIONS AS NOTED ON PLANS.
	SINGLE-POLE WALL SWITCH OCCUPANCY SENSOR - WATTSTOPPER #PW-301 WITH WHITE PHENOLIC WALLPLATE. FLUSH MOUNT SWITCH IN WALL AT 42" ABOVE FINISHED FLOOR.		EXISTING CONTROL PANEL - TYPE AS INDICATED ON PLAN. RELOCATE PANEL AS DESCRIBED ON PLAN.
	EXISTING 2'x4' RECESSED FLUORESCENT TROFFER - REMOVE TROFFER AND ALL ASSOCIATED RACEWAY AND WIRING.		EXISTING WALL MOUNTED JUNCTION BOX - TO REMAIN IN PLACE.
	EXISTING 2'x2' RECESSED FLUORESCENT TROFFER - REMOVE TROFFER AND ALL ASSOCIATED RACEWAY AND WIRING.		EXISTING WALL MOUNTED JUNCTION BOX - REMOVE BOX AND ALL ASSOCIATED RACEWAY AND WIRING.
	EXISTING INCANDESCENT VANITY WALL SCONCE - REMOVE SCONCE AND ALL ASSOCIATED RACEWAY AND WIRING.		EXISTING DUPLEX RECEPTACLE - TO REMAIN IN PLACE. MAINTAIN INTEGRITY OF EXISTING CIRCUIT. EXTEND/RELOCATE OUTLET TO NEW WALL SURFACE WHERE WALLS ARE FURRED-OUT (PROVIDE STEEL EXTENSION BOX AS APPLICABLE). PROVIDE A NEW IVORY WALLPLATE FOR OUTLET TO MATCH NEW OUTLETS.
	EXISTING WALL OR CEILING MOUNTED OCCUPANCY SENSOR - REMOVE SENSOR AND ALL ASSOCIATED RACEWAY AND WIRING.		EXISTING DUPLEX RECEPTACLE OUTLET - REMOVE OUTLET AND ALL ASSOCIATED RACEWAY AND WIRING.
	EXISTING WALL MOUNTED OCCUPANCY SENSOR - REMOVE SENSOR AND ALL ASSOCIATED RACEWAY AND WIRING.		EXISTING FLOOR OUTLET WITH DUPLEX RECEPTACLE - TO REMAIN IN PLACE. MAINTAIN INTEGRITY OF EXISTING CIRCUIT. MAKE ADJUSTMENTS TO OUTLET AS REQUIRED TO INTERFACE WITH NEW FLOORING.
	EXISTING LIGHTING WALL SWITCH - REMOVE SWITCH AND ALL ASSOCIATED RACEWAY AND WIRING.		EXISTING VOICE, DATA, OR CATV COMMUNICATIONS OUTLET - TO REMAIN IN PLACE. EXTEND/RELOCATE OUTLET TO NEW WALL SURFACE WHERE WALLS ARE FURRED-OUT (PROVIDE STEEL EXTENSION BOX AS APPLICABLE).
	DUPLEX RECPTACLE, NEMA 5-20R. FLUSH MOUNT DEVICE IN WALL AT 18" AFF UNLESS NOTED OTHERWISE.		EXISTING VOICE, DATA, OR CATV COMMUNICATIONS OUTLET - REMOVE OUTLET AND ALL ASSOCIATED RACEWAY AND WIRING.
	DUPLEX RECPTACLE, NEMA 5-20R. FLUSH MOUNT DEVICE IN WALL AT 42" AFF OR 6" ABOVE COUNTERTOP, AS APPLICABLE, UNLESS NOTED OTHERWISE ON PLAN. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL MILLWORK WHERE APPLICABLE.		EXISTING WALL MOUNTED A/V SYSTEM SPEAKER - REMOVE SPEAKER AND TURN OVER TO OWNER. REMOVE ALL ASSOCIATED RACEWAY AND WIRING.
	DUPLEX, GROUND-FAULT-INTERRUPT TYPE RECEPTACLE, NEMA 5-20R. FLUSH MOUNT DEVICE AT 18" AFF UNLESS NOTED OTHERWISE.		
	DUPLEX, GROUND-FAULT-INTERRUPT RECEPTACLE, NEMA 5-20R. FLUSH MOUNT DEVICE IN WALL AT 42" AFF OR 6" ABOVE COUNTERTOP, AS APPLICABLE, UNLESS NOTED OTHERWISE ON PLAN. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL MILLWORK WHERE APPLICABLE.		

**LIGHTING FIXTURE SCHEDULE**

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	OPTICAL ELEMENT	MOUNTING	VOLTS	LAMPS (PHILIPS)
	A	2'x4' DIRECT/INDIRECT STATIC L.E.D. GRID TROFFER.	CREE	ZR24-40L-40K-NON-DIM with 10-YEAR FULL WARRANTY ON ARRAYS AND DRIVER.	DIRECT/INDIRECT w/CENTER BASKET	CEILING RECESSED	120/277V UNIVERS.	L.E.D. - 4000 lumens, 4000K
	B	2'x4' DIRECT/INDIRECT STATIC L.E.D. GRID TROFFER.	CREE	ZR24-50L-40K-NON-DIM with 10-YEAR FULL WARRANTY ON ARRAYS AND DRIVER.	DIRECT/INDIRECT w/CENTER BASKET	CEILING RECESSED	120/277V UNIVERS.	L.E.D. - 5000 lumens, 4000K
	C	24 INCH, L.E.D. RESTROOM VANITY LIGHT WITH UP AND DOWN LIGHT.	H.E. WILLIAMS	WMAUD-2-L15/840U-L15/840D-AF-DRV-UNV with 5-YEAR FULL WARRANTY ON ARRAYS AND DRIVER.	DIFFUSE ACRYLIC	WALL MOUNT 6" ABOVE MIRROR	120/277 UNIVERS.	L.E.D. - 1500 lumens, 4000K-UP L.E.D. - 1500 lumens, 4000K-DWN
	U1	EMERGENCY LIGHTING UNIT, WALL MOUNTED WITH TWO HEADS, SELF DIAGNOSTICS, AND A 90 MINUTE BATTERY BACKUP SYSTEM.	EMERGI-LITE	PRO-3N-LA-AD with 3-YEAR FULL WARRANTY.	MR16 HEADLAMPS (FLOOD)	WALL MOUNT AT 7 FEET ABOVE FLOOR	120/277V UNIVERS.	2 - 6-VOLT, 4-WATT MR16 L.E.D.
	U2	EMERGENCY LIGHTING UNIT, WALL MOUNTED WITH TWO HEADS, SELF DIAGNOSTICS, AND A 90 MINUTE BATTERY BACKUP SYSTEM.	EMERGI-LITE	PRO-3N-LA-AD-CM with 3-YEAR FULL WARRANTY.	MR16 HEADLAMPS (FLOOD)	CEILING SURFACE	120/277V UNIVERS.	2 - 6-VOLT, 4-WATT MR16 L.E.D.
	-	EDGE-LIT L.E.D. EXIT SIGN WITH SINGLE FACE AND GREEN LETTERING. PROVIDE ARROWS/CHEVRONS AS SHOWN ON PLAN.	EMERGI-LITE	TA-PEN-1-GC with 3-YEAR FULL WARRANTY ON ARRAYS AND DRIVER.	GREEN LETTERING	UNIVERSAL WALL OR CEILING	120/277V UNIVERS.	L.E.D. - COMPLY WITH 2015 IBC

NOTE: PROVIDE GRID HOLD-DOWN CLIPS FOR EACH 2'x4' FIXTURE AS REQUIRED TO COMPLY WITH ASTM E-580 AND THE INTERNATIONAL BUILDING CODE.

**GENERAL DEMOLITION NOTES**

- REMOVE AND LEGALLY DISPOSE OF ALL EXISTING CONTROLS, DEVICES, LIGHTING FIXTURES, EXIT SIGNS, AND ALL ASSOCIATED RACEWAY AND WIRING NOTED ON PLANS.
- REMOVE AND LEGALLY DISPOSE OF ALL EXISTING CONTROLS, DEVICES, LIGHTING FIXTURES, EXIT SIGNS, AND ALL ASSOCIATED RACEWAY AND WIRING NOTED ON PLANS. PROVIDE 2-HOUR RATED FIRESTOPPING COMPOUND IN HOLES WHERE EXISTING RACEWAYS ARE REMOVED.
- THE CONTRACTOR SHALL VISIT THE SITE/ BUILDING TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND SHALL INCLUDE ALL WORK REQUIRED FOR COMPLETE DEMOLITION AND RENOVATION IN HIS BID.

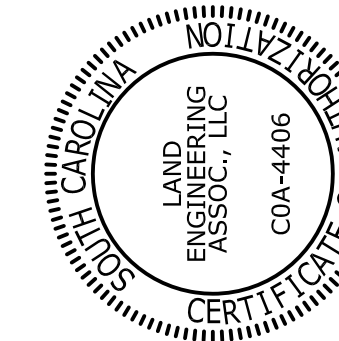
**ELECTRICAL DRAWING INDEX**

E1.00	GENERAL NOTES, LEGEND, AND SCHEDULES
E2.00	ELECTRICAL DEMOLITION PLAN
E3.00	LIGHTING DEMOLITION PLAN
E4.00	ELECTRICAL RENOVATION PLAN
E5.00	LIGHTING RENOVATION PLAN
E6.00	FIRESTOP PENETRATION DETAILS

**ISSUE / DATE**

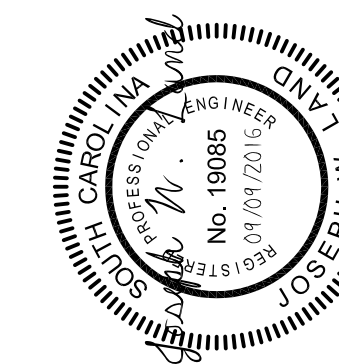
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drawn by: JSJ  
checked by: JWL



USC LANCASTER - STARR HALL  
RENOVATIONS PHASE II  
476 Hubbard Dr. Lancaster, SC 29729

**GMC # AGRE160038**  
**ose # H37-9715**  
Issue for Bid



**GENERAL NOTES, LEGEND,  
AND DETAILS**

USC-2016-03

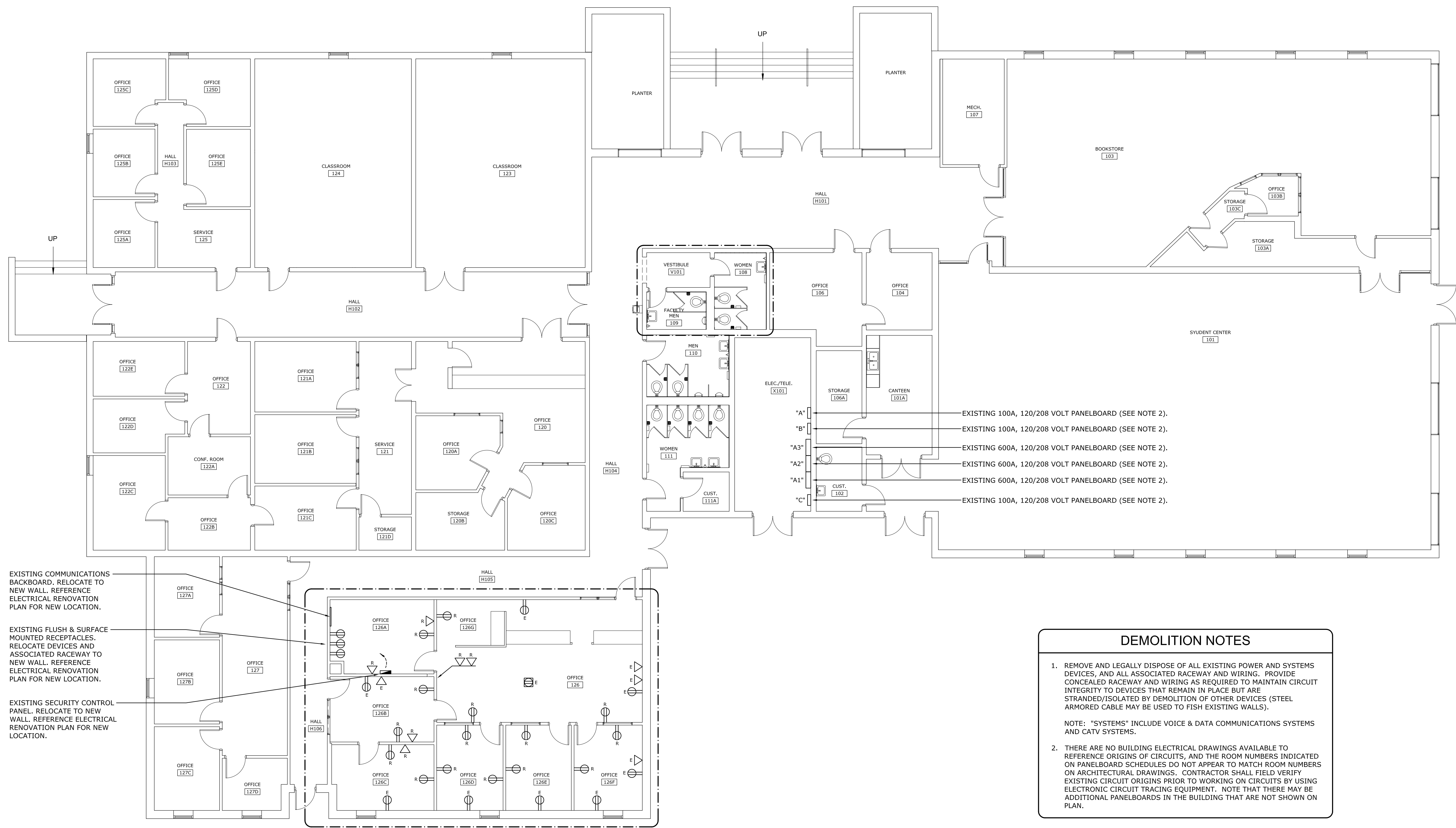


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Tel 864.233.2804 | [GMCNETWORK.COM](http://GMCNETWORK.COM)



EXISTING COMMUNICATIONS BACKBOARD. RELOCATE TO NEW WALL. REFERENCE ELECTRICAL RENOVATION PLAN FOR NEW LOCATION.

EXISTING FLUSH & SURFACE MOUNTED RECEPTABLES. RELOCATE DEVICES AND ASSOCIATED RACEWAY TO NEW WALL. REFERENCE ELECTRICAL RENOVATION PLAN FOR NEW LOCATION.

EXISTING SECURITY CONTROL PANEL. RELOCATE TO NEW WALL. REFERENCE ELECTRICAL RENOVATION PLAN FOR NEW LOCATION.

EXISTING 100A, 120/208 VOLT PANELBOARD (SEE NOTE 2).

EXISTING 100A, 120/208 VOLT PANELBOARD (SEE NOTE 2).

EXISTING 600A, 120/208 VOLT PANELBOARD (SEE NOTE 2).

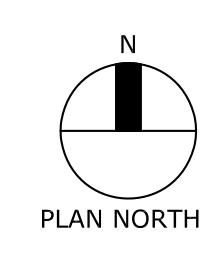
EXISTING 600A, 120/208 VOLT PANELBOARD (SEE NOTE 2).

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EXISTING 100A, 120/208 VOLT PANELBOARD (SEE NOTE 2).

**DEMOLITION NOTES**

- REMOVE AND LEGALLY DISPOSE OF ALL EXISTING POWER AND SYSTEMS DEVICES, AND ALL ASSOCIATED RACEWAY AND WIRING. PROVIDE CONCEALED RACEWAY AND WIRING AS REQUIRED TO MAINTAIN CIRCUIT INTEGRITY TO DEVICES THAT REMAIN IN PLACE BUT ARE STRANDED/ISOLATED BY DEMOLITION OF OTHER DEVICES (STEEL ARMORED CABLE MAY BE USED TO FISH EXISTING WALLS).  
  
NOTE: "SYSTEMS" INCLUDE VOICE & DATA COMMUNICATIONS SYSTEMS AND CATV SYSTEMS.
- THERE ARE NO BUILDING ELECTRICAL DRAWINGS AVAILABLE TO REFERENCE ORIGINS OF CIRCUITS, AND THE ROOM NUMBERS INDICATED ON PANELBOARD SCHEDULES DO NOT APPEAR TO MATCH ROOM NUMBERS ON ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUIT ORIGINS PRIOR TO WORKING ON CIRCUITS BY USING ELECTRONIC CIRCUIT TRACING EQUIPMENT. NOTE THAT THERE MAY BE ADDITIONAL PANELBOARDS IN THE BUILDING THAT ARE NOT SHOWN ON PLAN.



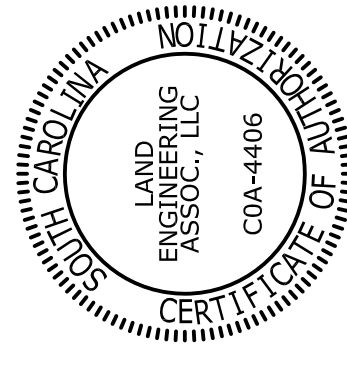
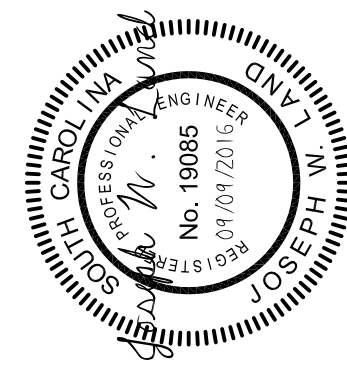
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**ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"

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**ELECTRICAL DEMOLITION PLAN**

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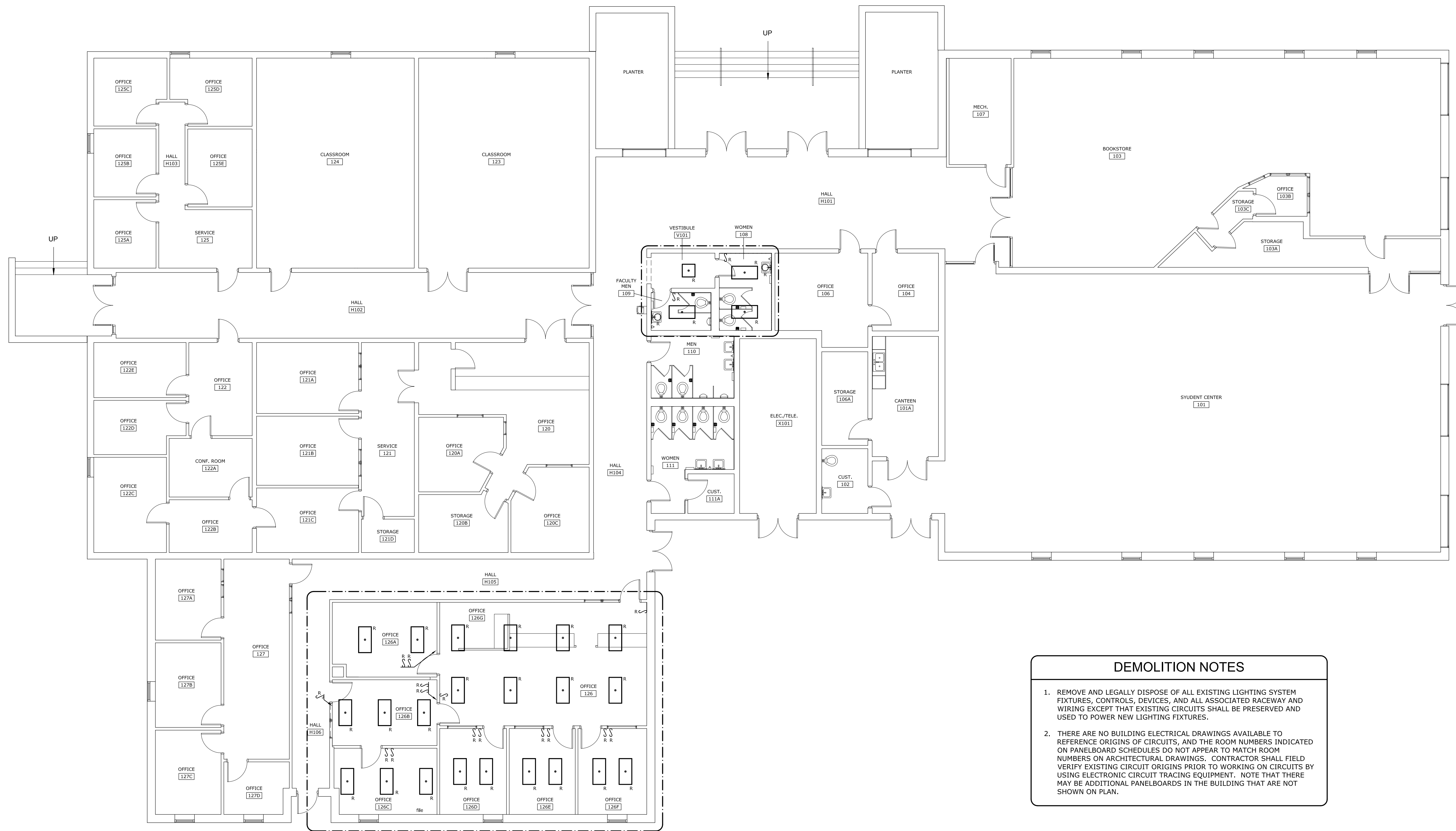


**USC LANCASTER - STARR HALL  
RENOVATIONS PHASE II**  
476 Hubbard Dr. Lancaster, SC 29720

**GMC # AGRE160038**  
**ose # H37-9715**  
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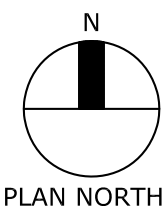
ISSUE	DATE
Issued for Bid	09/11/16
drawn by: JSJ	
checked by: JWL	





**DEMOLITION NOTES**

- REMOVE AND LEGALLY DISPOSE OF ALL EXISTING LIGHTING SYSTEM FIXTURES, CONTROLS, DEVICES, AND ALL ASSOCIATED RACEWAY AND WIRING EXCEPT THAT EXISTING CIRCUITS SHALL BE PRESERVED AND USED TO POWER NEW LIGHTING FIXTURES.
- THERE ARE NO BUILDING ELECTRICAL DRAWINGS AVAILABLE TO REFERENCE ORIGINS OF CIRCUITS, AND THE ROOM NUMBERS INDICATED ON PANELBOARD SCHEDULES DO NOT APPEAR TO MATCH ROOM NUMBERS ON ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUIT ORIGINS PRIOR TO WORKING ON CIRCUITS BY USING ELECTRONIC CIRCUIT TRACING EQUIPMENT. NOTE THAT THERE MAY BE ADDITIONAL PANELBOARDS IN THE BUILDING THAT ARE NOT SHOWN ON PLAN.



**1**

**LIGHTING DEMOLITION PLAN**

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

USC-2016-03

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**LIGHTING DEMOLITION PLAN**

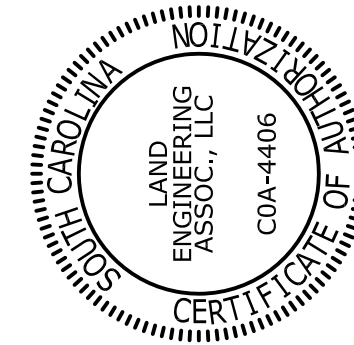
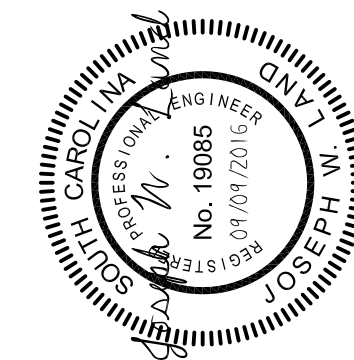
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**USC LANCASTER - STARR HALL RENOVATIONS PHASE II**  
476 Hubbard Dr. Lancaster, SC 29720

**GMC # AGRE160038**

**ose # H37-9715**

Issue for Bid



**ISSUE DATE**

Issued for Bid 08/11/16

drawn by: JSJ

checked by: JWL

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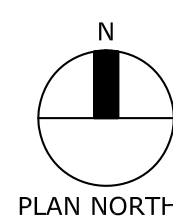
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- MOUNTING LOCATION FOR EXISTING RECEPTACLES RELOCATED PER THE DEMOLITION PLAN. PROVIDE JUNCTION BOXES, RACEWAY, AND WIRING AS REQUIRED TO EXTEND CIRCUITS TO NEW LOCATION.
- MOUNTING LOCATION FOR EXISTING COMMUNICATIONS BACKBOARD RELOCATED PER THE DEMOLITION PLAN.
- MOUNTING LOCATION FOR EXISTING SECURITY CONTROL PANEL RELOCATED PER THE DEMOLITION PLAN. PROVIDE JUNCTION BOXES, RACEWAY, AND WIRING/CABLES AS REQUIRED TO EXTEND POWER AND CONTROL CIRCUITS TO NEW LOCATION.

**RENOVATION NOTES**

- POWER CIRCUITS INDICATED ON PLAN SHALL BE SERVED FROM EXISTING PANEL "C" UNLESS NOTED OTHERWISE. ALL CIRCUITS SHALL BE TWO #12 AWG THHN COPPER CONDUCTORS WITH ONE #12 AWG COPPER GREEN INSULATED GROUND WIRE IN 3/4" EMT RACEWAY UNLESS NOTED OTHERWISE. MULTI-WIRE CIRCUITS WITH A SHARED NEUTRAL SHALL NOT BE USED.
- PANEL "C": PANEL IS AN EXISTING FEDERAL PACIFIC "NBLP" 120/208 VOLT, 100 AMP RATED PANELBOARD. PROVIDE SINGLE-POLE, 20-AMP RATED CIRCUIT BREAKERS IN SPACES 8, 9, 10, 11, AND 12 TO SERVE NEW RECEPTACLE CIRCUITS. UPDATE EXISTING PANELBOARD CIRCUIT DIRECTORY TO REFLECT ADDED LOADS.

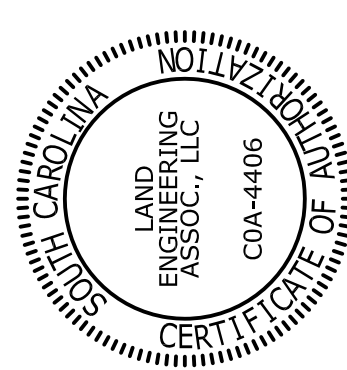


1

**ELECTRICAL RENOVATION PLAN**

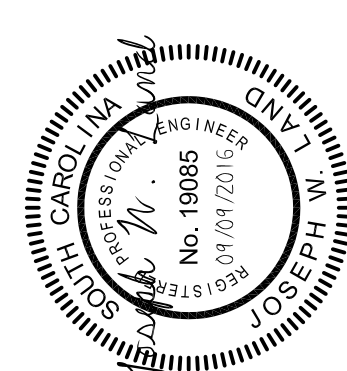
E4.00 SCALE: 1/8" = 1'-0"

ISSUE	DATE
Issued for Bid	08/11/16
drawn by:	J.S.J.
checked by:	J.W.L.



USC LANCASTER - STARR HALL  
 RENOVATIONS PHASE II  
 476 Hubbard Dr. Lancaster, SC 29720

GMC # AGRE160038  
 ose # H37-9715  
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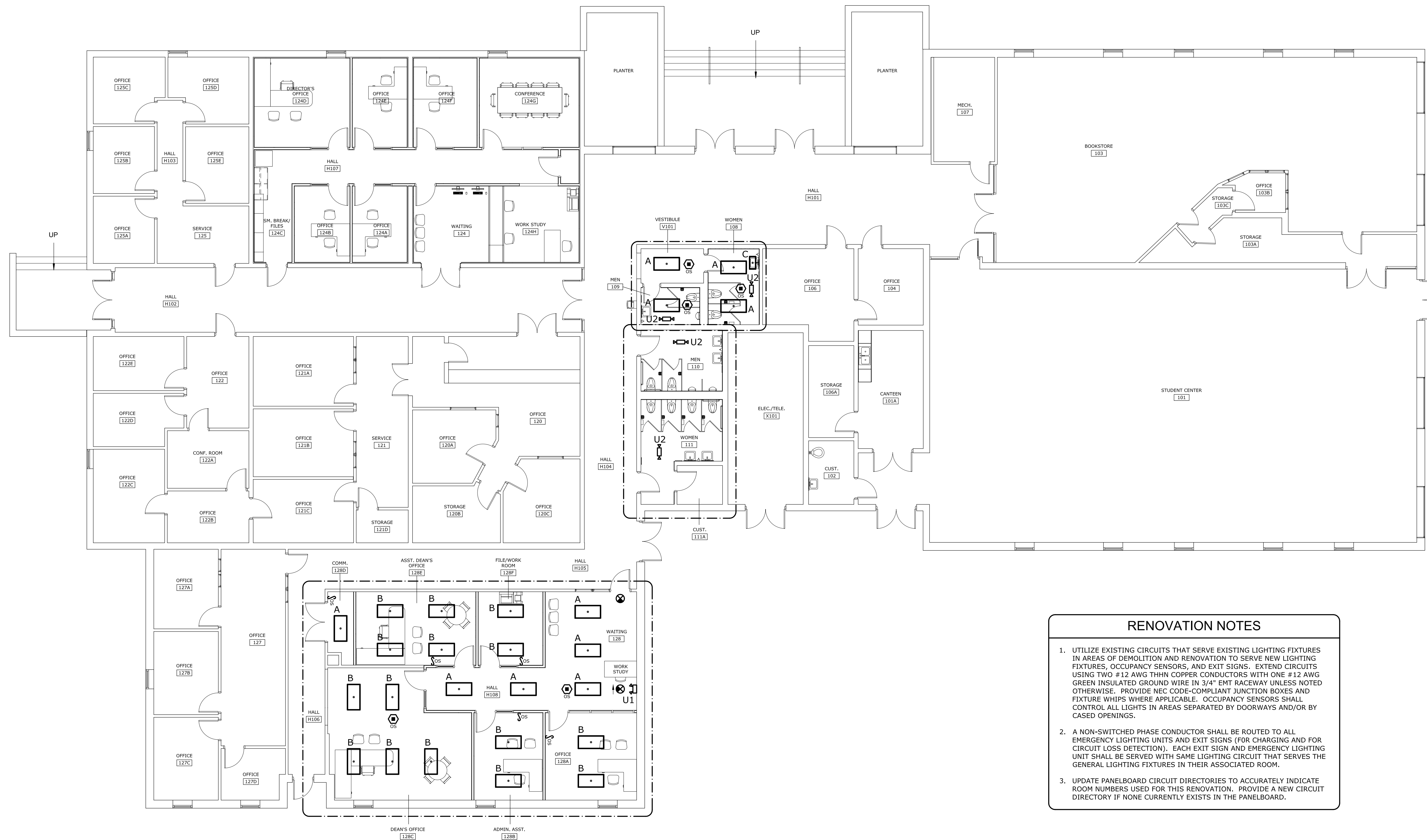


ELECTRICAL RENOVATION PLAN

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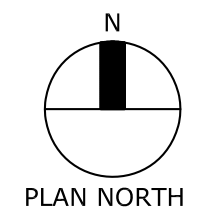
USC-2016-03

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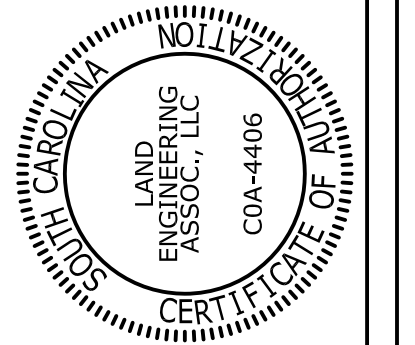
**RENOVATION NOTES**

- UTILIZE EXISTING CIRCUITS THAT SERVE EXISTING LIGHTING FIXTURES IN AREAS OF DEMOLITION AND RENOVATION TO SERVE NEW LIGHTING FIXTURES, OCCUPANCY SENSORS, AND EXIT SIGNS. EXTEND CIRCUITS USING TWO #12 AWG THHN COPPER CONDUCTORS WITH ONE #12 AWG GREEN INSULATED GROUND WIRE IN 3/4" EMT RACEWAY UNLESS NOTED OTHERWISE. PROVIDE NEC CODE-COMPLIANT JUNCTION BOXES AND FIXTURE WHIPS WHERE APPLICABLE. OCCUPANCY SENSORS SHALL CONTROL ALL LIGHTS IN AREAS SEPARATED BY DOORWAYS AND/OR BY CASED OPENINGS.
- A NON-SWITCHED PHASE CONDUCTOR SHALL BE ROUTED TO ALL EMERGENCY LIGHTING UNITS AND EXIT SIGNS (FOR CHARGING AND FOR CIRCUIT LOSS DETECTION). EACH EXIT SIGN AND EMERGENCY LIGHTING UNIT SHALL BE SERVED WITH SAME LIGHTING CIRCUIT THAT SERVES THE GENERAL LIGHTING FIXTURES IN THEIR ASSOCIATED ROOM.
- UPDATE PANELBOARD CIRCUIT DIRECTORIES TO ACCURATELY INDICATE ROOM NUMBERS USED FOR THIS RENOVATION. PROVIDE A NEW CIRCUIT DIRECTORY IF NONE CURRENTLY EXISTS IN THE PANELBOARD.


1 LIGHTING RENOVATION PLAN  
E5.00 SCALE: 1/8" = 1'-0"

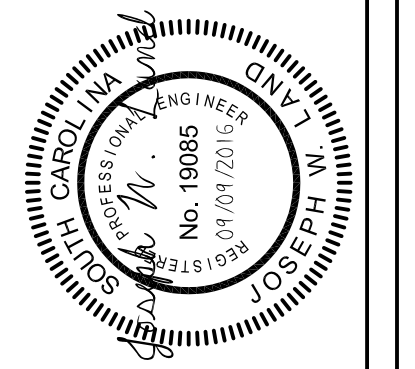
ISSUE	DATE
Issued for Bid	09/11/16

drawn by: JSJ  
 checked by: JWL



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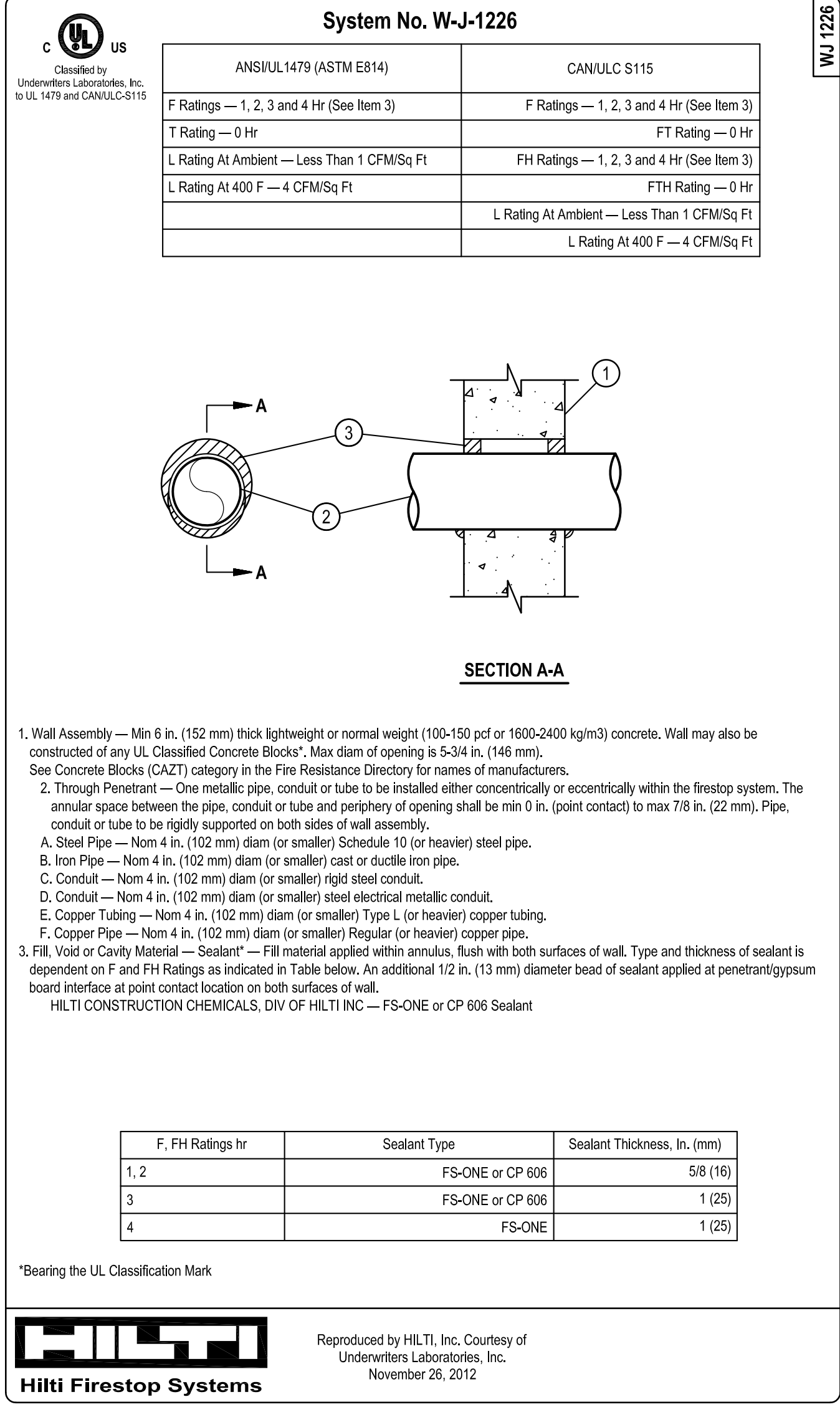
**GMC # AGRE160038**  
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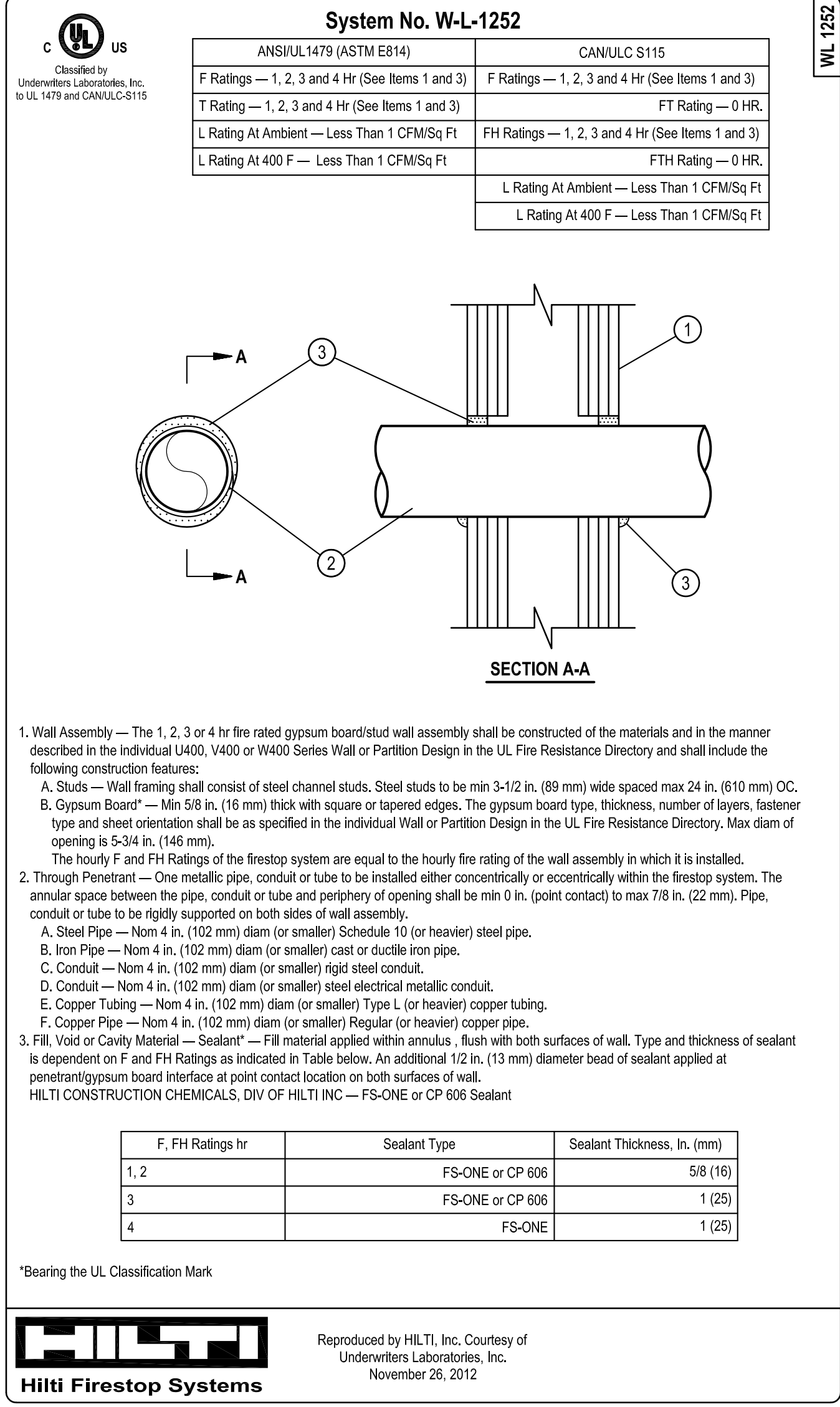
**LIGHTING RENOVATION  
 PLAN**

**E5.00**  
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USC-2016-03



1 FIRESTOP DETAIL - CONCRETE  
E6.00 NOT TO SCALE



2 FIRESTOP DETAIL - STUD WALLS  
E6.00 NOT TO SCALE

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**ISSUE DATE**

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drawn by: JSJ  
 checked by: JWL

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**ose # H37-9715**  
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**LAND ENGINEERING ASSOC., LLC**  
 COA-4406  
 CERTIFICATE OF AUTHORITY  
 SOUTH CAROLINA

**LAND ENGINEERING ASSOCIATES, INC.**  
 No. 19008  
 No. 07/20/2016  
 SOUTH CAROLINA  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF SOUTH CAROLINA

**FIRESTOP PENETRATION DETAILS**

**E6.00**  
 sheet of