

HORRY-GEORGETOWN TECHNICAL COLLEGE RENOVATIONS TO BUILDINGS 100 & 500

GEORGETOWN

SOUTH CAROLINA

DATE: March 9, 2023
 ARCHITECT PROJECT NO.: 23002
 SC STATE PROJECT NO. BUILDING 100: H59-N220-CB
 SC STATE PROJECT NO. BUILDING 500: H59-N221-CB

BID DOCUMENTS

ARCHITECT:

PMH

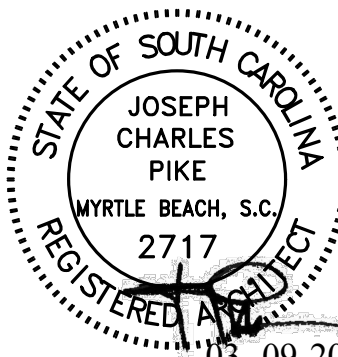
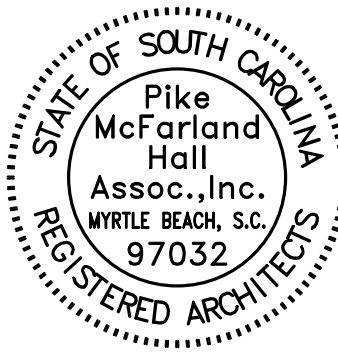
PIKE • McFARLAND • HALL
 ASSOCIATES, INC.
 ARCHITECTS & PLANNERS

MECHANICAL, ELECTRICAL
DWG CONSULTING ENGINEERS

1009 Anna Knapp Blvd.
 Suite 200
 Mt Pleasant, SC 29464
 843-518-3465

PMH

PIKE • McFARLAND • HALL
 ASSOCIATES, INC.
 ARCHITECTS & PLANNERS



OWNER

HORRY GEORGETOWN
 TECHNICAL COLLEGE

GEORGETOWN, SC

PROJECT

HORRY-GEORGETOWN TECHNICAL COLLEGE
 RENOVATIONS TO:
 BUILDINGS 100 & 500

SOUTH CAROLINA
 GEORGETOWN,

DRAWING INDEX

COV COVER SHEET - VICINITY MAP, INDEX
 OF DRAWINGS

ARCHITECTURAL

PIKE • McFARLAND • HALL ASSOCIATES
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COV 100 COVER SHEET - BUILDING 100
 D1.0 DEMOLITION PLANS-BUILDING 100
 A1.0 FLOOR PLAN-BUILDING 100

COV 500 COVER SHEET - BUILDING 500
 D2.0 DEMOLITION PLANS-BUILDING 500
 A2.0 FLOOR PLAN-BUILDING 500

DRAWING INDEX (cont.)

MECHANICAL, ELECTRICAL

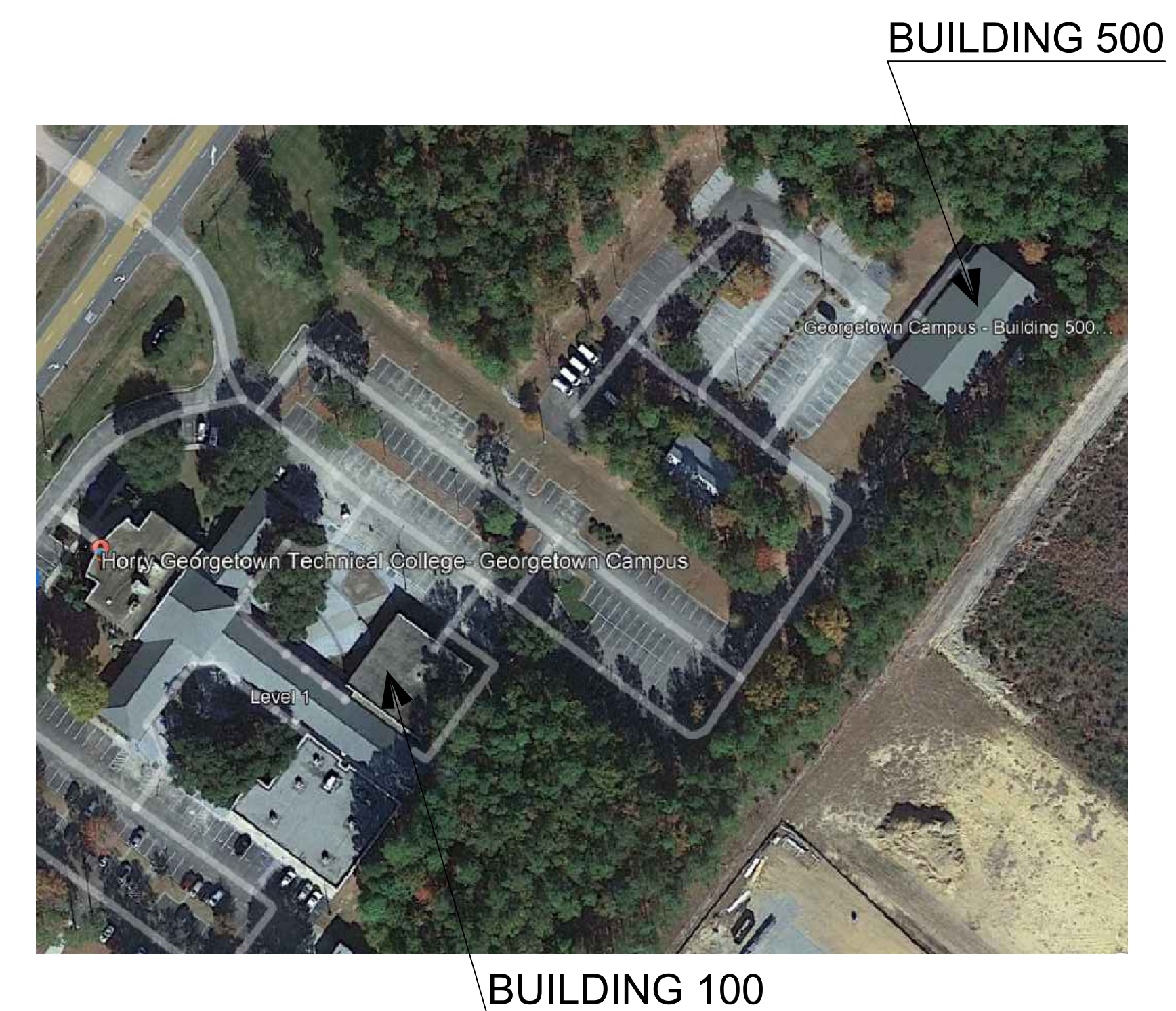
DWG CONSULTING ENGINEERS

M001 NOTES, SCHEDULES, LEGENDS
 M101 BUILDING 100 MECHANICAL DEMOLITION/MECHANICAL PLANS
 M102 BUILDING 500 MECHANICAL DEMOLITION/MECHANICAL PLANS

E001 ELECTRICAL SYSTEMS SEISMIC REQUIREMENTS/NOTES
 E002 LEGENDS
 E003 EQUIPMENT CONNECTION SCHEDULE
 E010 RISER DIAGRAMS
 E050 PANEL SCHEDULES
 ED101 BUILDING 100 DEMOLITION PLAN
 E101 BUILDING 100 POWER & TELECOM PLAN
 E102 BUILDING 100 LIGHTING PLAN
 E103 BUILDING 100 SYSTEMS PLAN

ED201 BUILDING 500 DEMOLITION PLAN
 E201 BUILDING 500 POWER & TELECOM PLAN
 E202 BUILDING 500 LIGHTING PLAN
 E203 BUILDING 500 SYSTEMS PLAN

VICINITY MAP



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PIKE • McFARLAND • HALL ASSOCIATES, INC. 1300 PROFESSIONAL DRIVE, SUITE 201, MYRTLE BEACH, SOUTH CAROLINA 29577 PHONE: (843) 497-0272 FAX: (843) 497-0271 PMH@PMHARCHITECTS.COM

COMM: 23002
 OSE:
 BLDG. 100: H59-N220-CB
 BLDG. 500: H59-N221-CB
 FILE:
 DRAWN BY: DP
 PLOT: 1=1
 DATE: 03-09-23
 REV:

SHEET

COV

HORRY-GEORGETOWN TECHNICAL COLLEGE RENOVATIONS TO BUILDING 100

GEORGETOWN

SOUTH CAROLINA

DATE: March 09, 2023

ARCHITECT PROJECT NO.: 23002

SC STATE PROJECT NO. BUILDING 100: H59-N220-CB

BID DOCUMENTS

PMH
PIKE-McFARLAND-HALL
ASSOCIATES, INC.
ARCHITECTS & PLANNERS

STATE OF SOUTH CAROLINA
Pike
McFarland
Hall
Assoc., Inc.
MYRTLE BEACH, S.C.
97032
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
JOSEPH
CHARLES
PIKE
MYRTLE BEACH, S.C.
2717
REGISTERED ARCHITECT

OWNER
HORRY GEORGETOWN
TECHNICAL COLLEGE
GEORGETOWN, SC

PROJECT

PHONE: (843) 497-0272 FAX: (843) 497-0271 PMH@PMHARCHITECTS.COM

1300 PROFESSIONAL DRIVE, SUITE 201, MYRTLE BEACH, SOUTH CAROLINA 29577

HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDINGS 100 & 500
GEORGETOWN, SOUTH CAROLINA

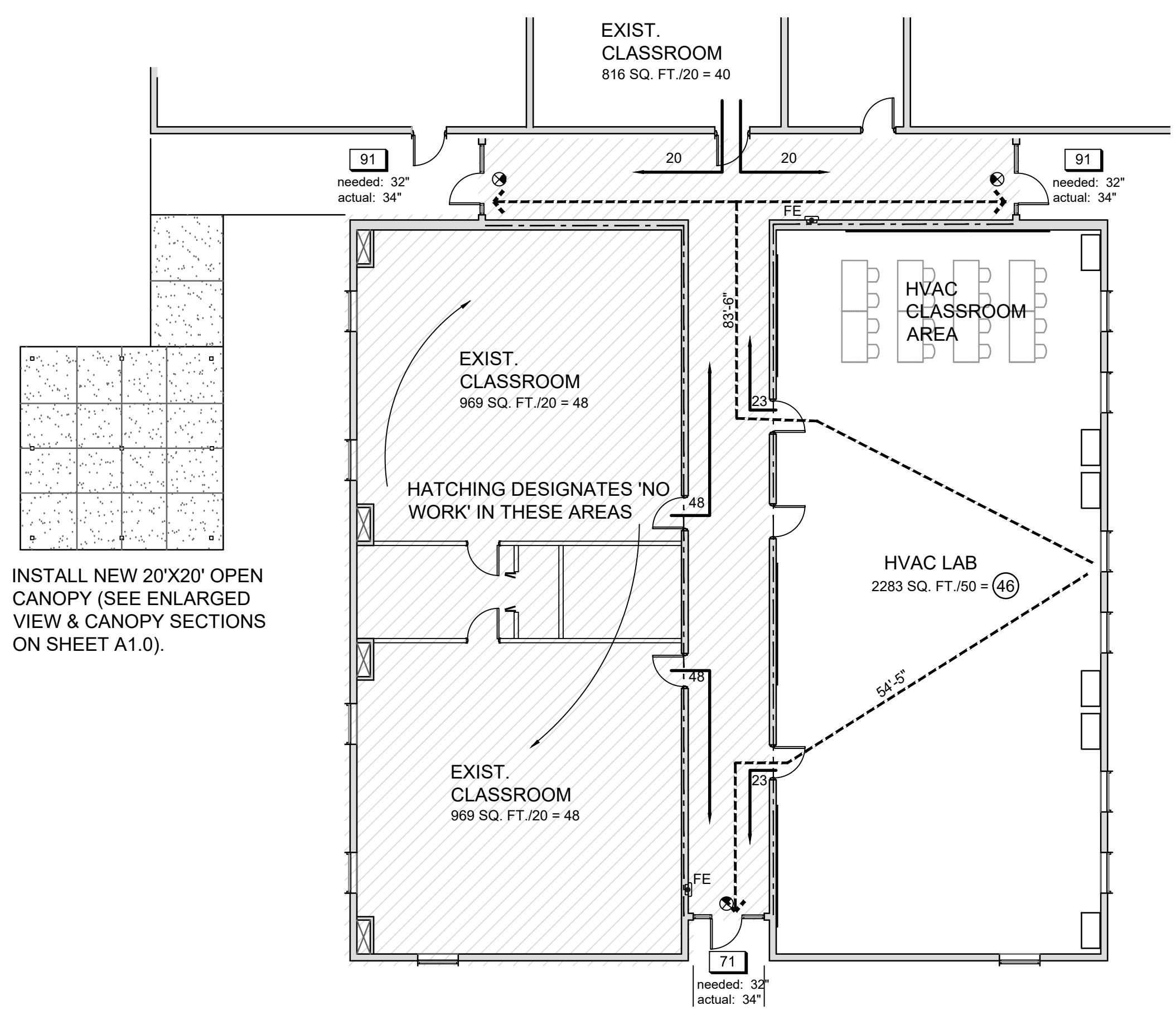
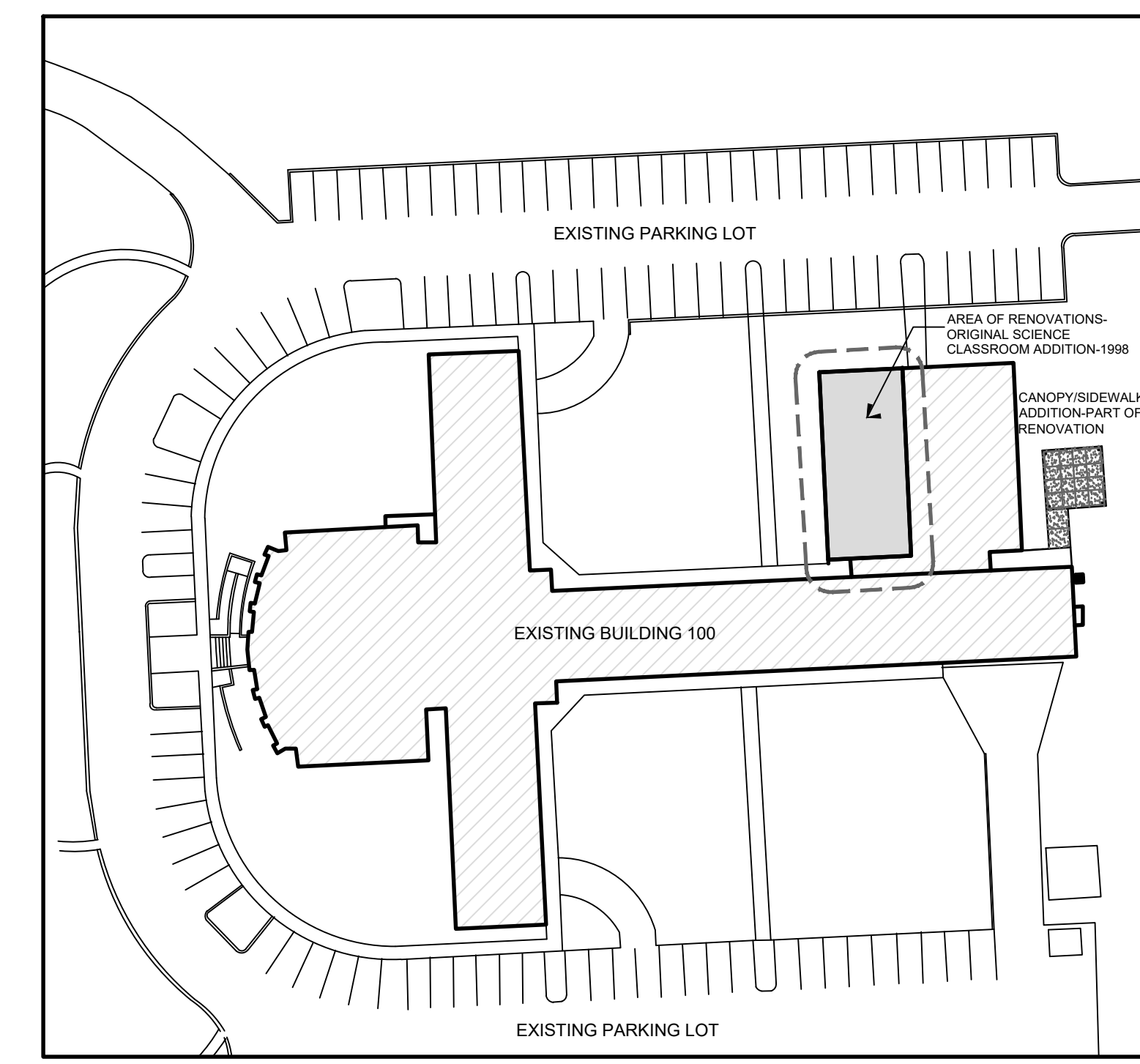
COMM: 23002
OSE: BLDG. 100: H59-N220-CB
FILE:
DRAWN BY: DP
PLOT: 1=1
DATE: 03-09-23
REV:

SHEET

EXISTING CODE INFORMATION - BLDG.100 (SCIENCE CLASSROOM ADDITION - 1998)	
1.	EXISTING BUILDING WAS CONSTRUCTED UNDER THE JURISDICTION OF THE SOUTHERN BUILDING CODE, 1997
2.	BUILDING IS TYPE IV CONSTRUCTION, UNPROTECTED, UNSPRINKLERED.
3.	OCCUPANCY CLASSIFICATION IS GROUP B - BUSINESS

CODE SUMMARY		
PROJECT: HGTC GEORGETOWN RENOVATIONS BUILDING 100		
IBC EDITION: 2021 EDITION ICC A117.1-2017		
CODE ITEM	CODE REF.	AREA 1
OCCUPANCY CLASS	CHAPTER 3	B
CONSTRUCTION CLASS	CHAPTER 6	TYPE II B (ASSUMED) UNSPRINKLERED
<p>----- EXISTING 1-HR RATING</p> <p>----- EGRESS PATH</p> <p>----- INDICATES TRAVEL DISTANCE. MAXIMUM OF 200' PER IBC-2018 TABLE 1017.2</p> <p>134 AT LOCATIONS INDICATED ON THE FLOOR PLAN, THIS AMOUNT INDICATES THE NUMBER OF OCCUPANTS WHICH THAT PARTICULAR EXIT IS CALCULATED TO ACCOMMODATE, FOR EGRESS PURPOSES PER IBC - 2018.</p> <p>needed: 21' actual: 70' THE CALCULATIONS REFLECT THE EGRESS WIDTH "NEEDED" FOR THE NUMBER OF OCCUPANTS CALCULATED FOR THAT PARTICULAR EXIT. THE "ACTUAL" REFLECTS THE ACTUAL WIDTH OF THAT PARTICULAR EXIT. THESE CALCULATIONS ARE BASED ON 0.2" ALLOWANCE PER OCCUPANT PROVIDED IN IBC-2018 1005.3.1 AND 1005.3.2.</p> <p>⊙ OCCUPANT LOAD</p>		

TABLE 3E CODE INFORMATION FOR ADDITIONS, ALTERATIONS, OR CHANGE OF OCCUPANCY TO AN EXISTING STRUCTURE	
TYPE OF PROJECT: <input checked="" type="checkbox"/> Alteration (IEBC Chaps. 7, 8 & 9) <input type="checkbox"/> Addition (IEBC Chap. 11) <input type="checkbox"/> Change of Occupancy (IEBC Chap. 10)	
METHOD OF COMPLIANCE: (Check only one Option and all items that apply under that Option.)	
<input type="checkbox"/> Option 1: Prescriptive Compliance Method (IEBC Chapter 5) <input type="checkbox"/> Option 2: Work Area Compliance Method (IEBC Chaps. 6-12) <input type="checkbox"/> Alteration Level 1, minor including reroofing (IEBC Chap. 7) <input checked="" type="checkbox"/> Alteration Level 2, reconfigurations of space (IEBC Chap. 8) <input type="checkbox"/> Alteration Level 3, work area exceeds 50% (IEBC Chap. 9) Aggregate area of building: _____ SF Work area: _____ SF <input type="checkbox"/> Option 3: Performance Compliance Method (IEBC Chap. 13)	
Original Building Code and Edition Applicable at time of Construction: SBC.1997	
Existing Sprinkler System?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Existing Fire Alarm System?	<input checked="" type="checkbox"/> Manual <input checked="" type="checkbox"/> Auto
Seismic Evaluation Required?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Major Facility Project? (See §48-52-810(10)(a))	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Change of Occupancy:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Existing Occupancy Classification(s): Business	
New Occupancy Classification(s): Business	
Historic Building (IEBC Chapter 12):	
<input type="checkbox"/> Preservation <input type="checkbox"/> Rehabilitation <input type="checkbox"/> Restoration <input checked="" type="checkbox"/> Reconstruction	



1 EGRESS PLAN
SCALE: 3/32"=1'-0"
COV 100

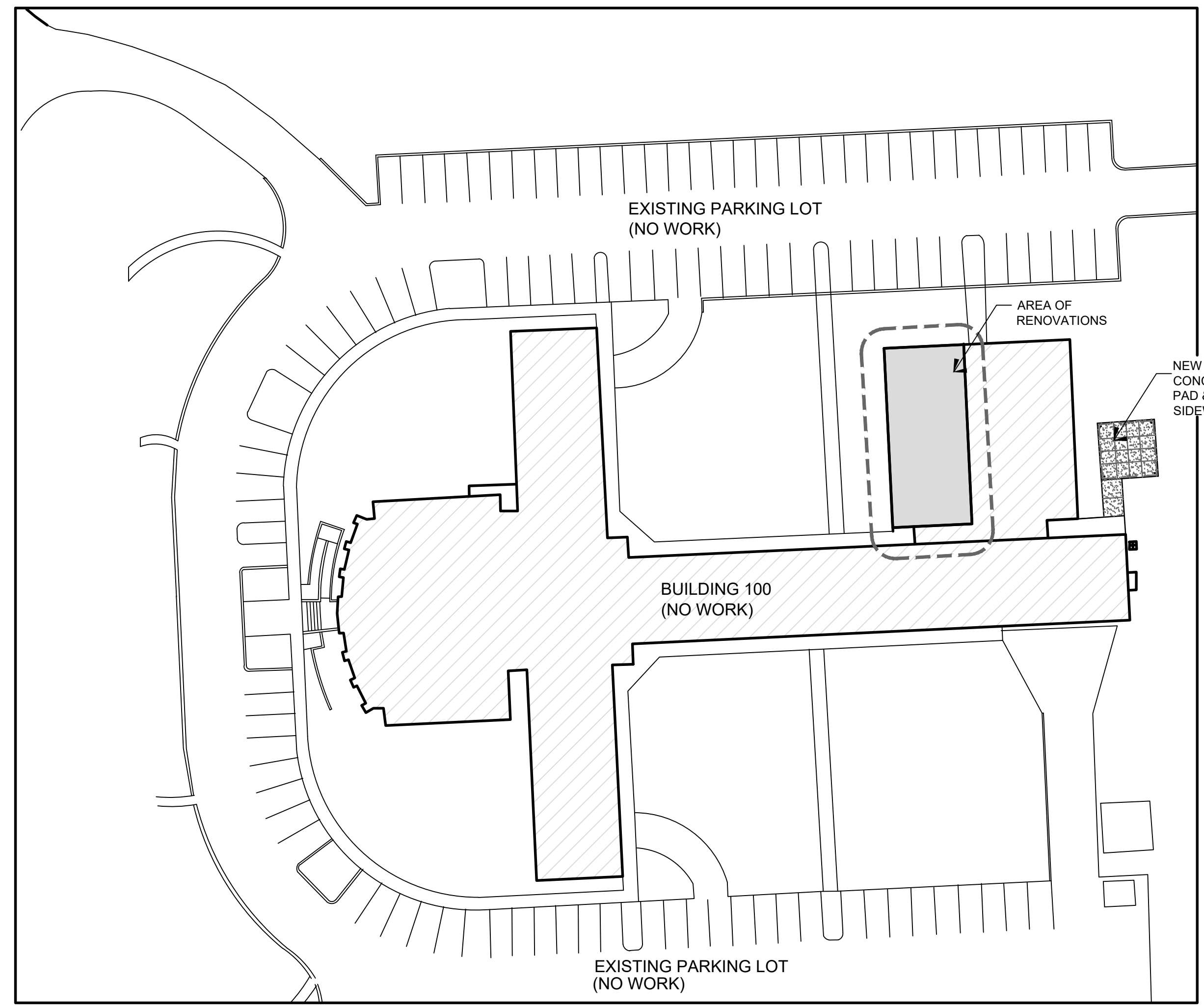
INSTALL NEW 20'X20' OPEN CANOPY (SEE ENLARGED VIEW & CANOPY SECTIONS ON SHEET A1.0).

BUILDING 100

COV 100

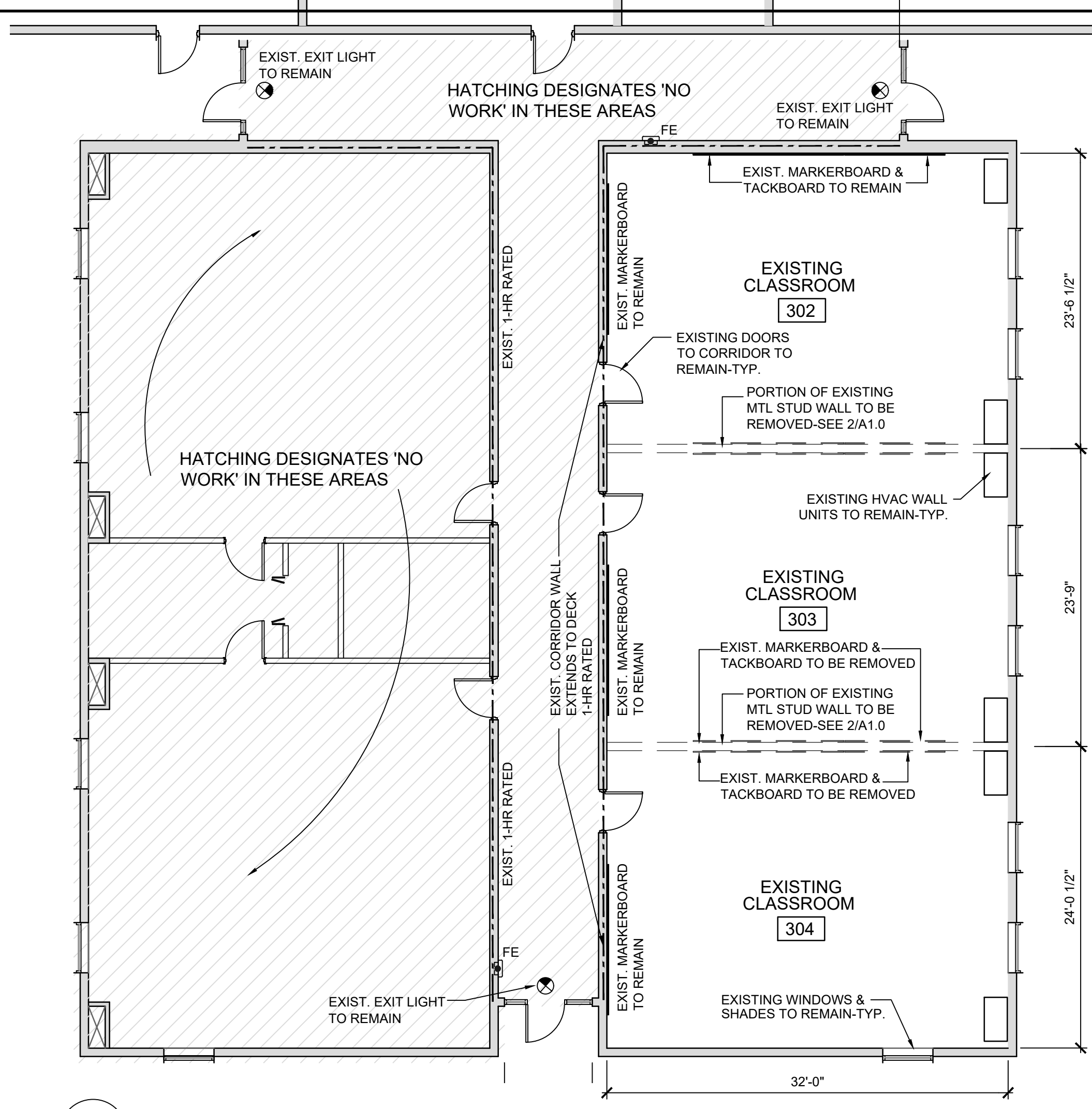
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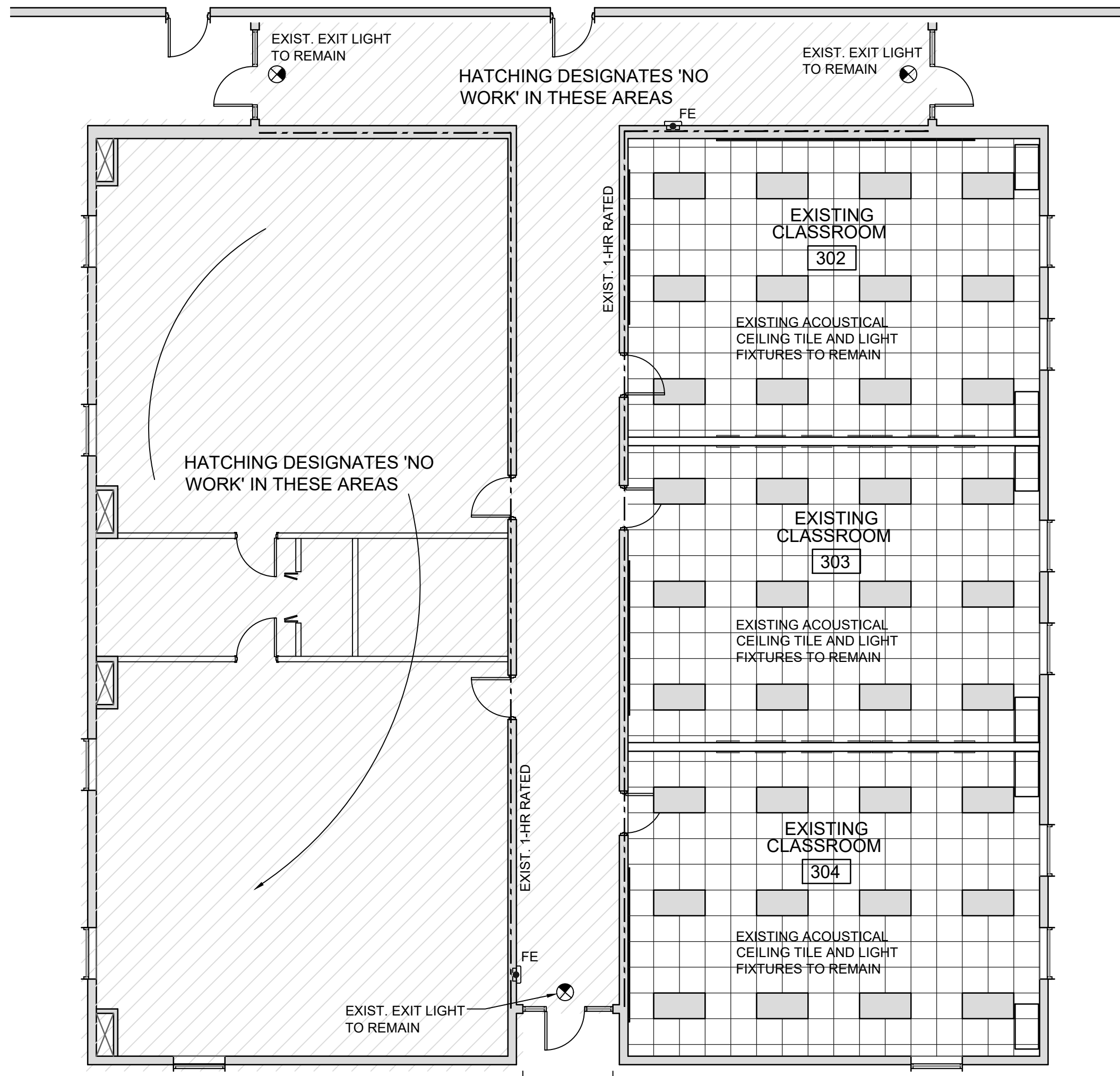


1 PARTIAL SITE PLAN - BUILDING 100
D1.0 N.T.S. - FOR INFORMATION ONLY

- FLOOR PLAN DEMOLITION NOTES-TYPICAL UNLESS NOTED OTHERWISE**
- GC SHALL IDENTIFY ALL LOAD BEARING STRUCTURE PRIOR TO DEMOLITION. IF LOAD BEARING STRUCTURE IS OBSERVED, NOTIFY ARCHITECT IMMEDIATELY.
 - BUILDING 100:** EXISTING CEILING TILE SYSTEM AND LIGHT FIXTURES TO REMAIN IN EXISTING CLASSROOMS 302, 303 & 304.
 - ALL EXISTING ELECTRICAL CONDUIT, FIXTURES AND EQUIPMENT TO BE REMOVED AS INDICATED ON ELECTRICAL DRAWINGS.
 - ALL EXISTING MECHANICAL DUCTWORK, EQUIPMENT AND ACCESSORIES TO BE REMOVED AS INDICATED ON THE MECHANICAL DRAWINGS.
 - ALL EXISTING FLOOR FINISHES, INCLUDING GROUT AND ADHESIVE TO BE REMOVED.
 - ALL EXISTING INTERIOR WALLS, LIGHT FIXTURES AND CEILING SYSTEMS TO BE REMOVED AS INDICATED ON DRAWINGS. ELIMINATE ALL INTERIOR MATERIALS TO LEAVE INTERIOR FACE OF MASONRY LOAD BEARING WALLS, BAR JOISTS AND METAL ROOF DECK EXPOSED.
 - DEMOLISH, REMOVE AND LEGALLY DISCARD OF ALL, BUT NOT LIMITED TO HAZARDOUS SUBSTANCES, PARTITIONS, CEILINGS, FLOOR COVERINGS (INCLUDING ADHESIVES AND GROUT), ELECTRICAL CONDUIT, MECHANICAL DUCTWORK AND OTHER FIXTURES AND EQUIPMENT AS INDICATED. OWNER RESERVES THE RIGHT TO IDENTIFY REAL AND PERSONAL PROPERTY ITEMS TO REMAIN PRIOR TO DEMOLITION.



2 EXISTING - DEMOLITION PLAN - BUILDING 100
D1.0 SCALE: 1/8"=1'-0"



3 EXISTING - RCP DEMOLITION PLAN - BUILDING 100
D1.0 SCALE: 1/8"=1'-0"

BUILDING 100

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PIKE ■ McFARLAND ■ HALL ASSOCIATES, INC. ARCHITECTS & PLANNERS

STATE OF SOUTH CAROLINA
Pike McFarland Hall Assoc., Inc.
MYRTLE BEACH, S.C. 97032
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
JOSEPH CHARLES PIKE
MYRTLE BEACH, S.C. 2717
REGISTERED ARCHITECT

OWNER
Horry Georgetown Technical College
Georgetown, SC

PROJECT

Horry-Georgetown Technical College
Renovations to:
Buildings 100 & 500
South Carolina

COMM: 23002
OSE:
BLDG. 100: H59-N220-CB

FILE:
DRAWN BY: DP
PLOT: 1=1
DATE: 03-09-23
REV:

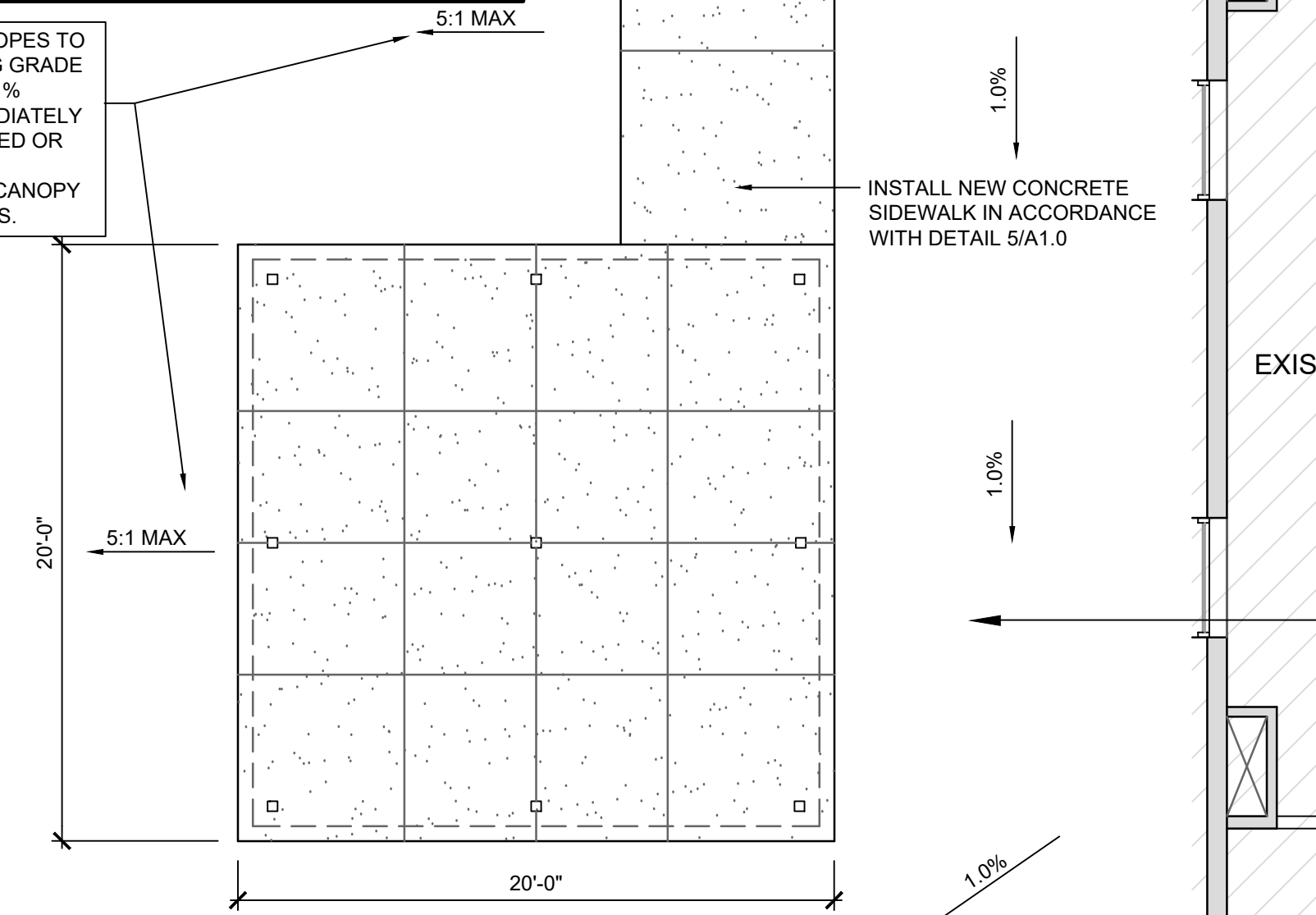
SHEET

D1.0

NOTES:

1. INSTALL OPEN CANOPY IN ACCORDANCE WITH CANOPY SECTIONS ON SHEET A1.0
2. INSTALL THE CONCRETE PAD 0.5-FEET BELOW THE FFE OF EXISTING BUILDING 100.
3. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATE AND FILED LOCATE UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF NEW CANOPY. CONTRACTOR SHALL ENSURE NEW CANOPY FOOTINGS HAVE A MINIMUM OF 5-FEET CLEARANCE FROM ANY EXISTING UTILITY, BOTH HORIZONTALLY AND VERTICALLY.
4. CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL AND TOP SOIL TO A MINIMUM DEPTH OF 6-INCHES WITHIN THE CANOPY FOOTPRINT AND TO EXTEND 5-FEET OUTSIDE THE CANOPY IN ALL DIRECTIONS. COMPACT EXISTING SUBGRADE TO A MINIMUM 95% MODIFIED PROCTOR.
5. ALL NEW FILL MATERIAL SHALL BE SANDY, STRUCTURAL FILL HAVING A MEASURED CBR VALUE OF AT LEAST 10%. FILL MATERIAL SHALL BE NON-PLASTIC AND SHOULD BE LIMITED TO A MAXIMUM SILT/CLAY FINES CONTENT OF 10% BY PASSING WEIGHT OF THE NO. 200 SIEVE.

INSTALL DOWN-SLOPES TO TIE-IN TO EXISTING GRADE WITH A MAXIMUM 5:1% SLOPE (20%) IMMEDIATELY INSTALL HYDROSEED OR SODDING AFTER INSTALLATION OF CANOPY PAD AND FOOTINGS.

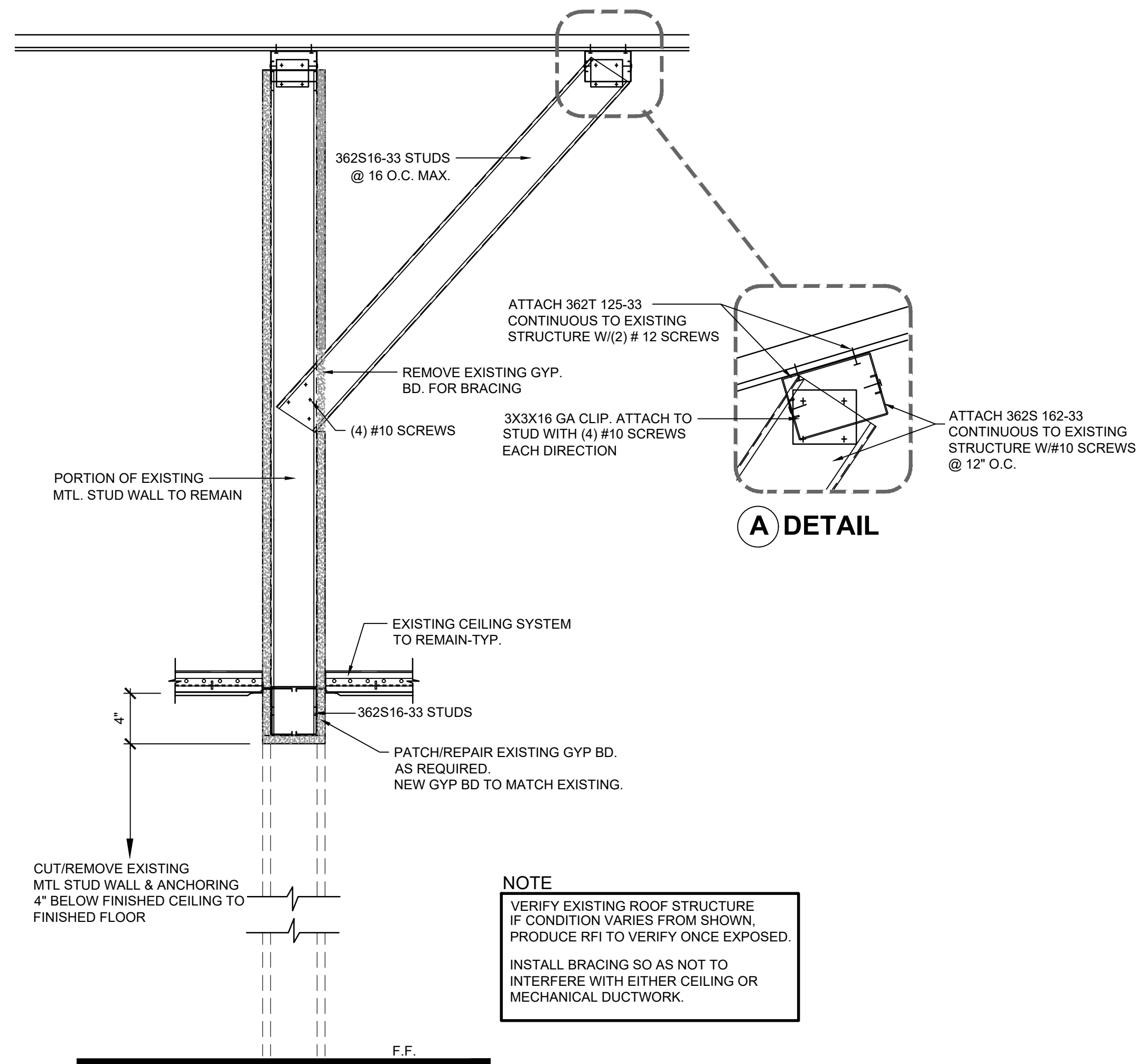
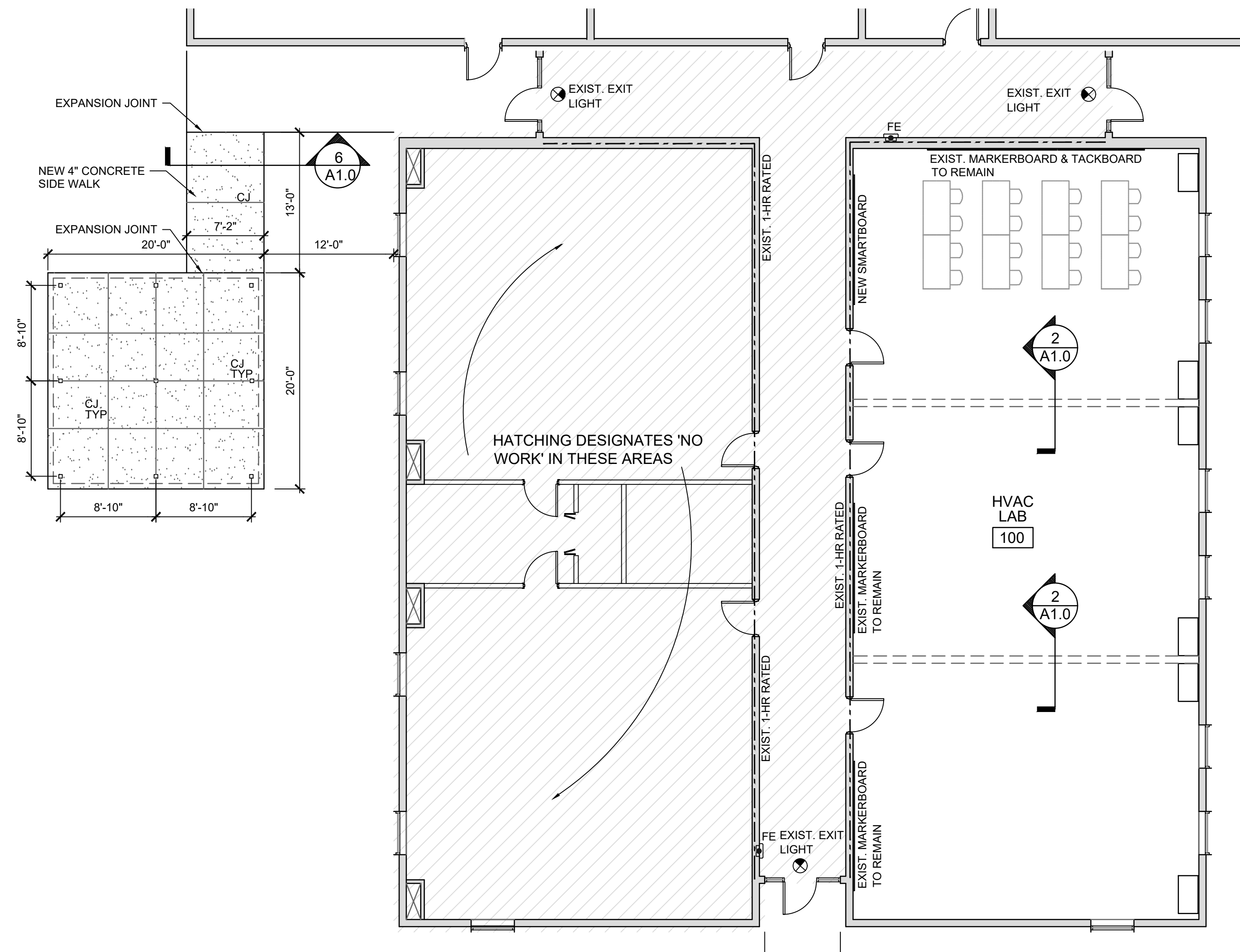


1 ENLARGED VIEW
A1.0 SCALE: 3/16"=1'-0"

ROOM FINISH SCHEDULE						NOTES
ROOM NO.	DESCRIPTION	FLOOR	WALLS	CLG.	CLG. HGT.	
100	BOAT BUILDING LAB	SEALED CONCRETE	EPOXY EG-SHELL	EXPOSED		100
101	OUTBOARD MARINE					101

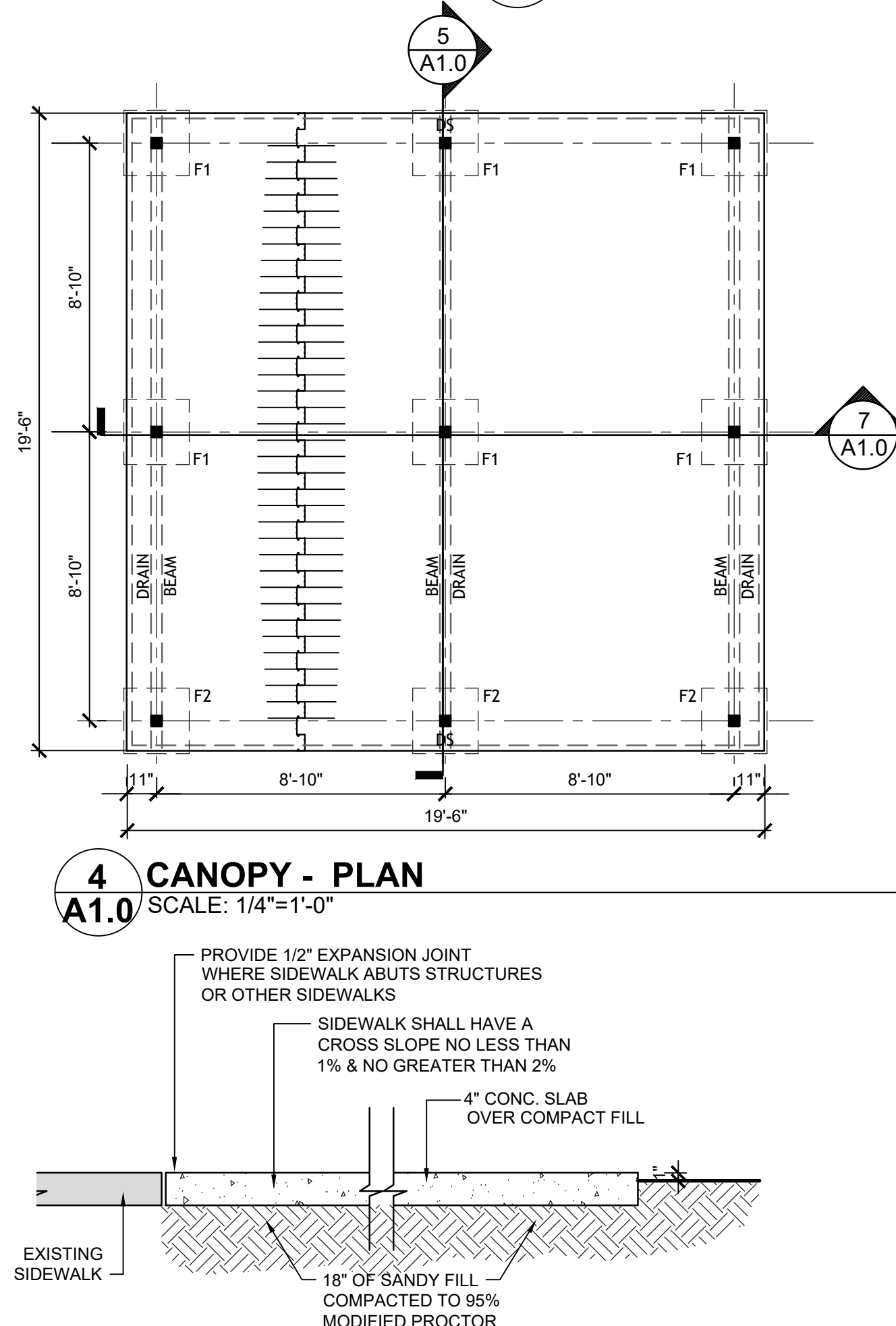
GRADE AREA BETWEEN NEW CANOPY AND EXISTING BUILDING 100 WITH A MINIMUM 2.0% SLOPE AWAY FROM EACH STRUCTURE. FURTHER, INSTALL A SWALE WITH A MINIMUM 1.0% LONGITUDINAL SLOPE AT THE LOCATION OF THE DRAINAGE ARROW.

3 EXISTING - RENOVATED PLAN - BUILDING 100
A1.0 SCALE: 1/8"=1'-0"

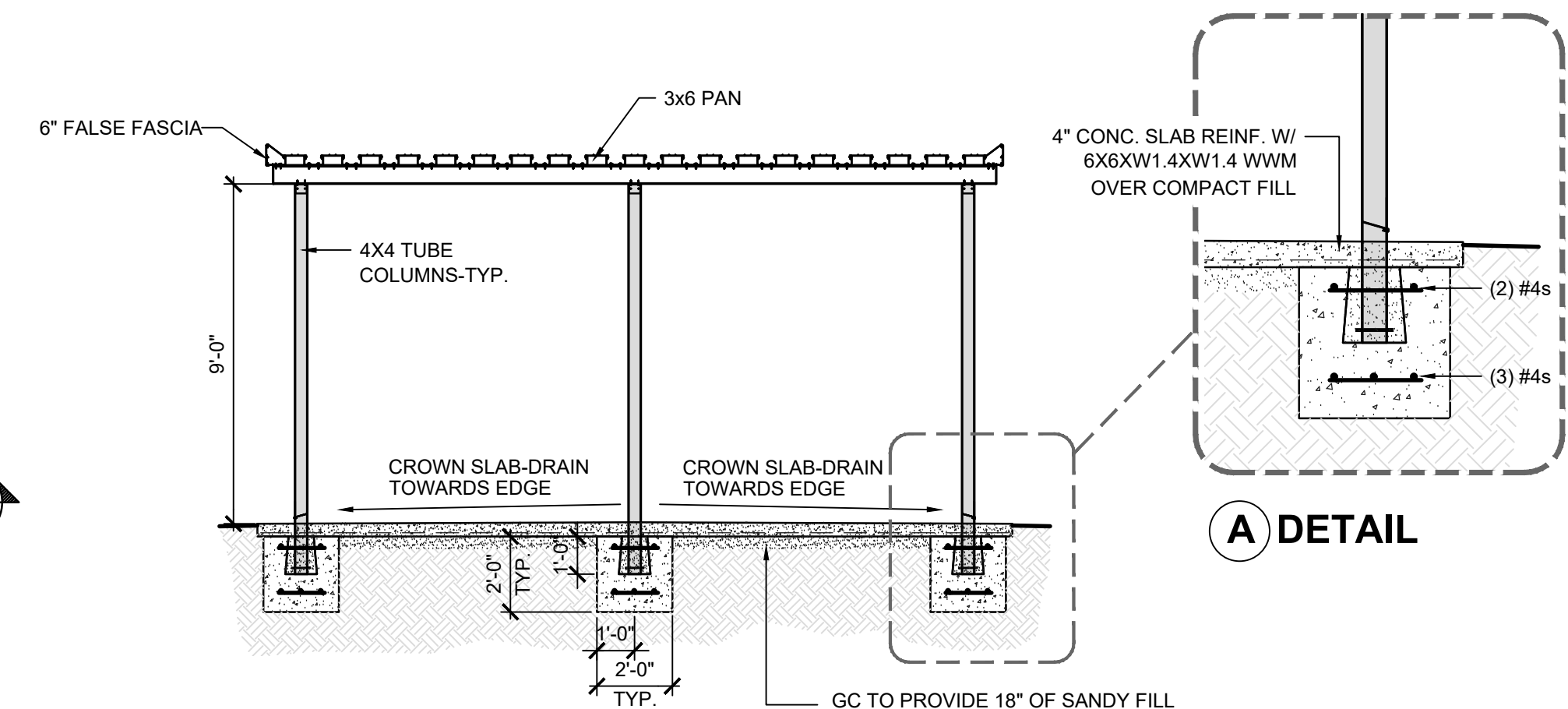


NOTE
VERIFY EXISTING ROOF STRUCTURE IF CONDITION VARIES FROM SHOWN. PRODUCE RFI TO VERIFY ONCE EXPOSED.
INSTALL BRACING SO AS NOT TO INTERFERE WITH EITHER CEILING OR MECHANICAL DUCTWORK.

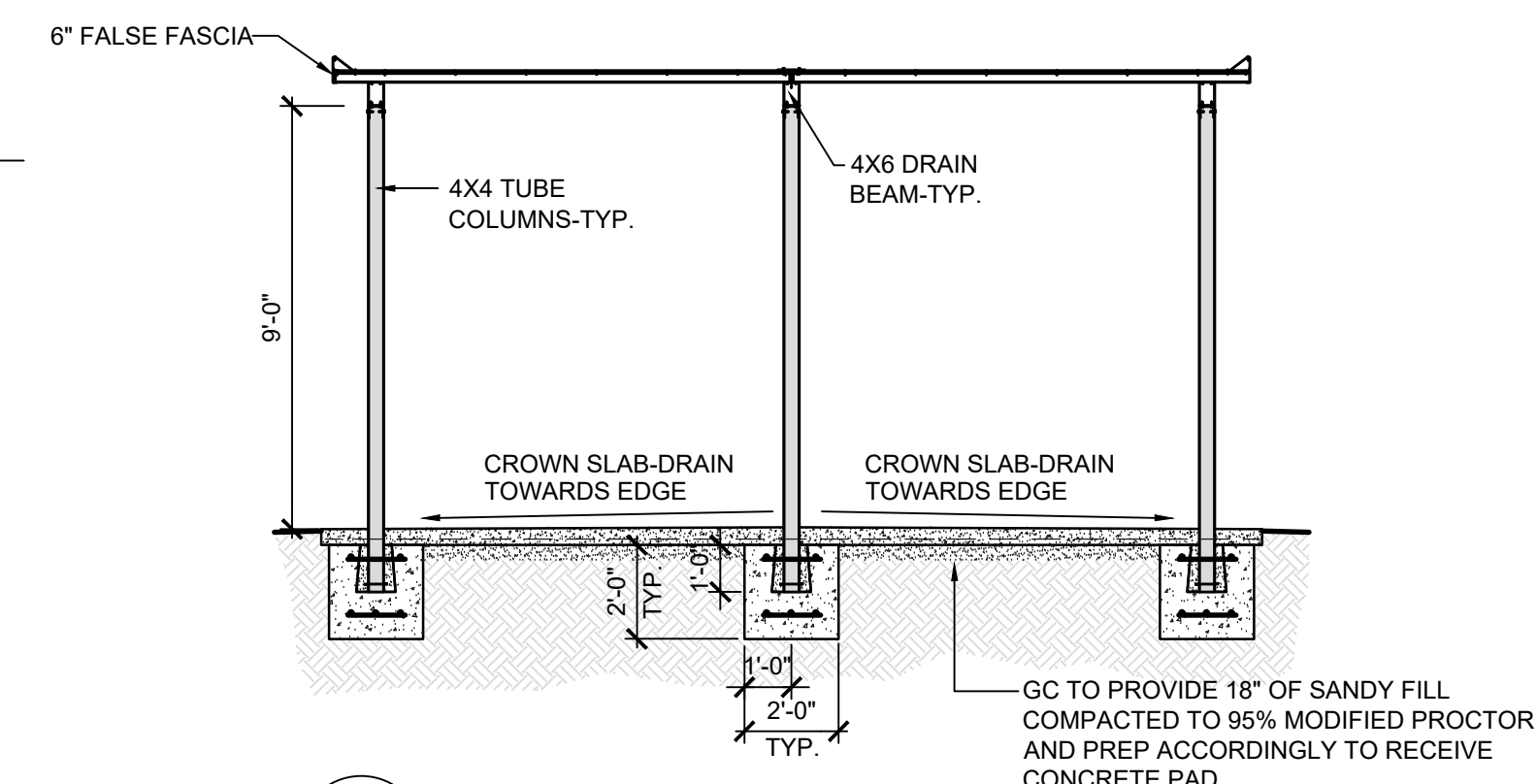
2 WALL - SECTION
A1.0 SCALE: 1 1/2"=1'-0"



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



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



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

HORRY-GEORGETOWN TECHNICAL COLLEGE RENOVATIONS TO BUILDING 500

GEORGETOWN

SOUTH CAROLINA

DATE: March 09, 2023
ARCHITECT PROJECT NO.: 23002
SC STATE PROJECT NO. BUILDING 500: H59-N221-CB

BID DOCUMENTS



OWNER
HORRY GEORGETOWN
TECHNICAL COLLEGE
GEORGETOWN, SC

PROJECT

HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDINGS 100 & 500
GEORGETOWN,
SOUTH CAROLINA

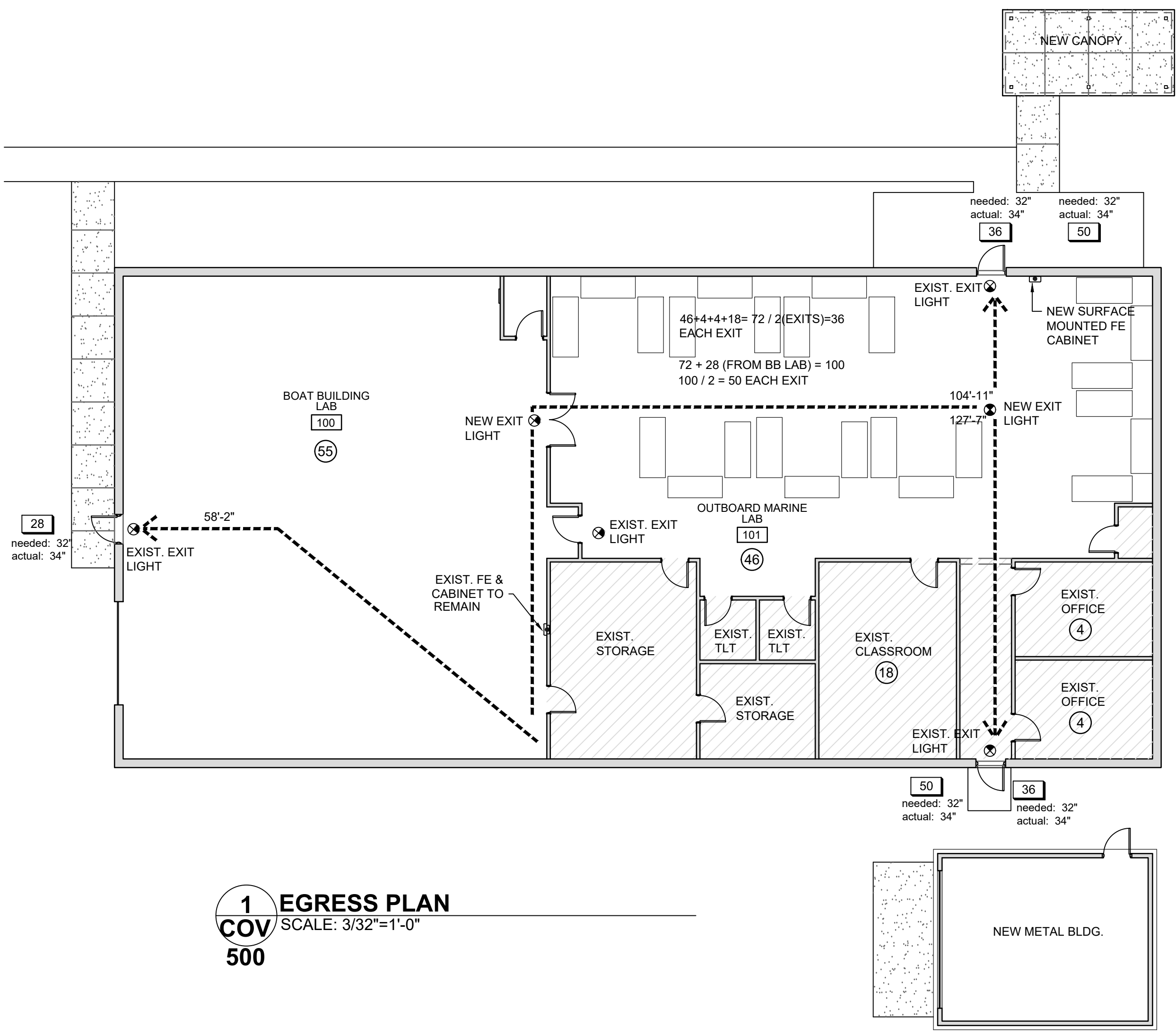
COMM: 23002
OSE:
BLDG. 500: H59-N221-CB

FILE:
DRAWN BY: DP
PLOT: 1=1
DATE: 03-09-23
REV:

SHEET
**COV
500**

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1 EGRESS PLAN
SCALE: 3/32"=1'-0"
500

CODE SUMMARY		
PROJECT: HGTC GEORGETOWN RENOVATIONS BUILDING 500		
IBC EDITION: 2021 EDITION ICC A117.1-2017		
CODE ITEM	CODE REF.	AREA 1
OCCUPANCY CLASS	CHAPTER 3	B
CONSTRUCTION CLASS	CHAPTER 6	TYPE II B (ASSUMED) UNSPRINKLERED

- - - - - EXISTING 1-HR RATING
 - - - - - EGRESS PATH

INDICATES TRAVEL DISTANCE. MAXIMUM OF 200' PER IBC-2018 TABLE 1017.2

134 AT LOCATIONS INDICATED ON THE FLOOR PLAN, THIS AMOUNT INDICATES THE NUMBER OF OCCUPANTS WHICH THAT PARTICULAR EXIT IS CALCULATED TO ACCOMMODATE, FOR EGRESS PURPOSES PER IBC - 2018.

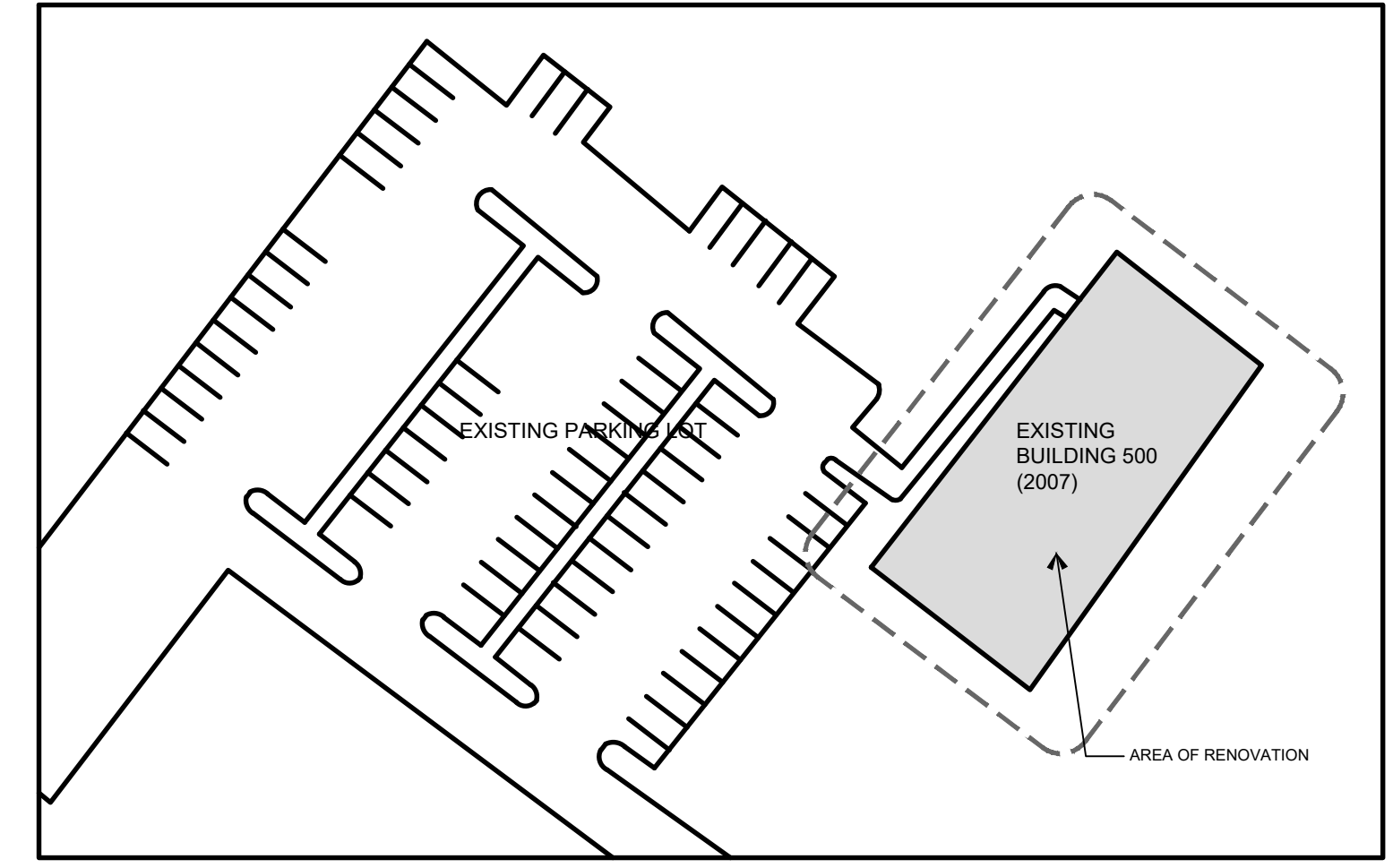
THE CALCULATIONS REFLECT THE EGRESS WIDTH "NEEDED" FOR THE NUMBER OF OCCUPANTS CALCULATED FOR THAT PARTICULAR EXIT. THE "ACTUAL" REFLECTS THE ACTUAL WIDTH OF THAT PARTICULAR EXIT. THESE CALCULATIONS ARE BASED ON 0.2" ALLOWANCE PER OCCUPANT PROVIDED IN IBC-2018 1005.3.1 AND 1005.3.2.

? OCCUPANT LOAD

TABLE 3E CODE INFORMATION FOR ADDITIONS, ALTERATIONS, OR CHANGE OF OCCUPANCY TO AN EXISTING STRUCTURE	
TYPE OF PROJECT:	
<input checked="" type="checkbox"/> Alteration (IEBC Chaps. 7, 8 & 9)	<input type="checkbox"/> Addition (IEBC Chap. 11) <input type="checkbox"/> Change of Occupancy (IEBC Chap. 10)
METHOD OF COMPLIANCE:	
(Check only one Option and all items that apply under that Option.)	
<input type="checkbox"/> Option 1: Prescriptive Compliance Method (IEBC Chapter 5)	<input type="checkbox"/> Option 2: Work Area Compliance Method (IEBC Chaps. 6-12)
<input type="checkbox"/> Alteration Level 1, minor including reroofing (IEBC Chap. 7)	<input checked="" type="checkbox"/> Alteration Level 2, reconfigurations of space (IEBC Chap. 8)
<input type="checkbox"/> Alteration Level 3, work area exceeds 50% (IEBC Chap. 9)	Aggregate area of building: _____ SF
	Work area: _____ SF
<input type="checkbox"/> Option 3: Performance Compliance Method (IEBC Chap. 13)	
Original Building Code and Edition Applicable at time of Construction: IBC 2003	
Existing Sprinkler System?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Existing Fire Alarm System?	<input type="checkbox"/> Manual <input checked="" type="checkbox"/> Auto
Seismic Evaluation Required?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Major Facility Project? (See §48-52-810(10)(a))	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Change of Occupancy:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Existing Occupancy Classification(s):	Business
New Occupancy Classification(s):	Business
Historic Building (IEBC Chapter 12):	
<input type="checkbox"/> Preservation <input type="checkbox"/> Rehabilitation <input type="checkbox"/> Restoration <input checked="" type="checkbox"/> Reconstruction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

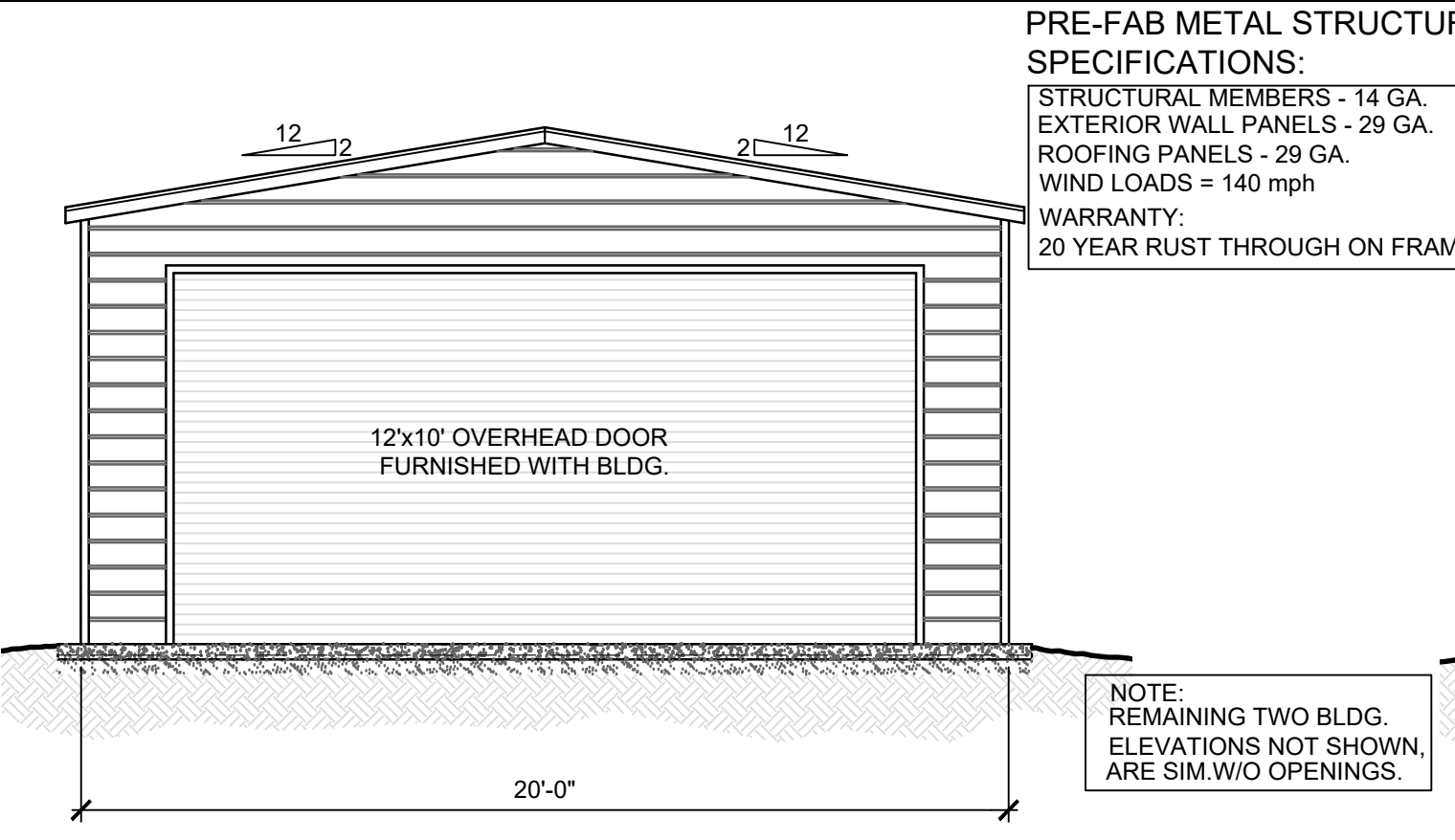
**EXISTING CODE INFORMATION - BLDG.500
CONSTRUCTED 2007**

- EXISTING BUILDING WAS CONSTRUCTED UNDER THE JURISDICTION OF THE SOUTHERN BUILDING CODE 2003.
- OCCUPANCY CLASSIFICATION IS GROUP B - BUSINESS

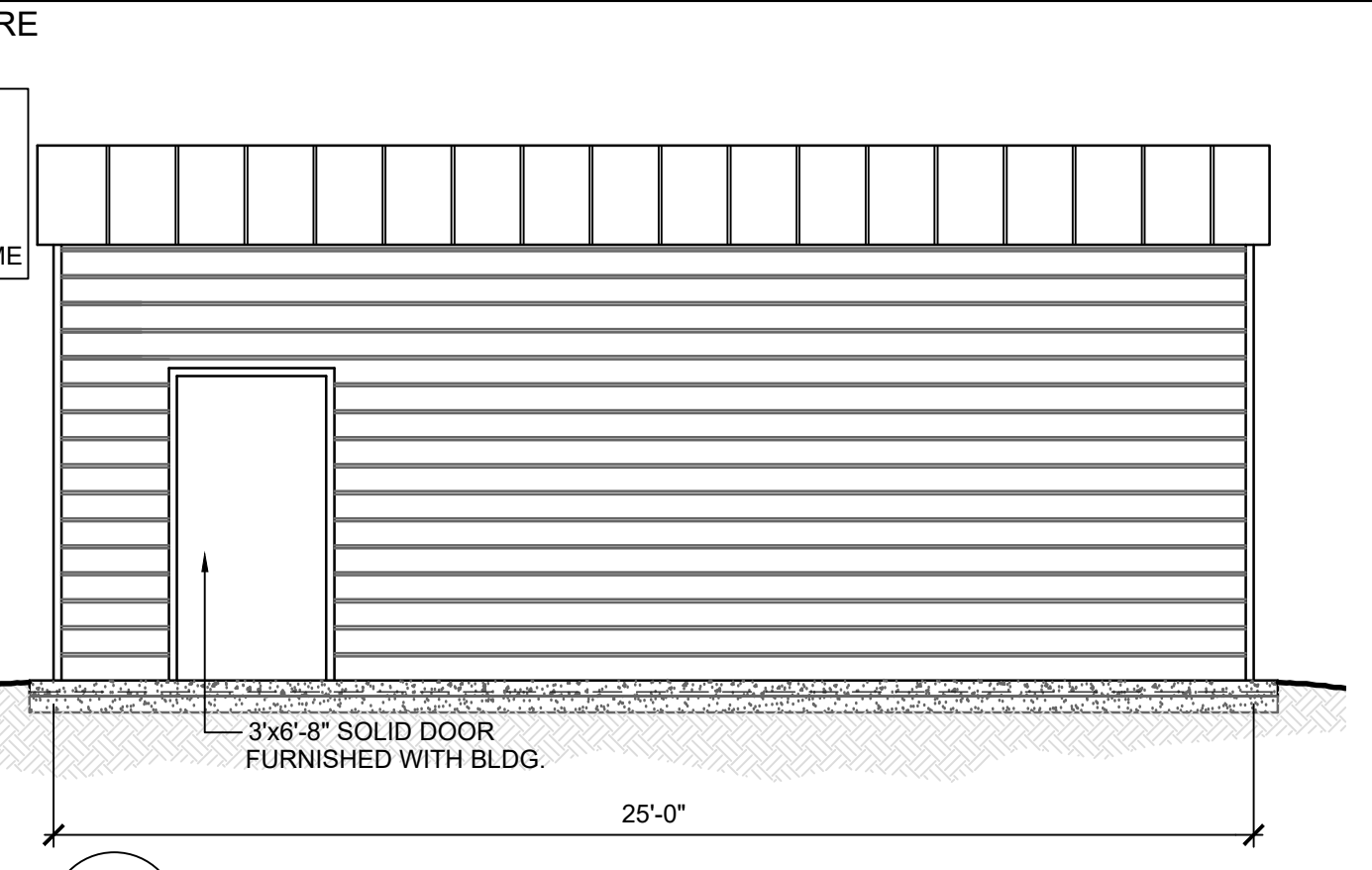


BUILDING 500

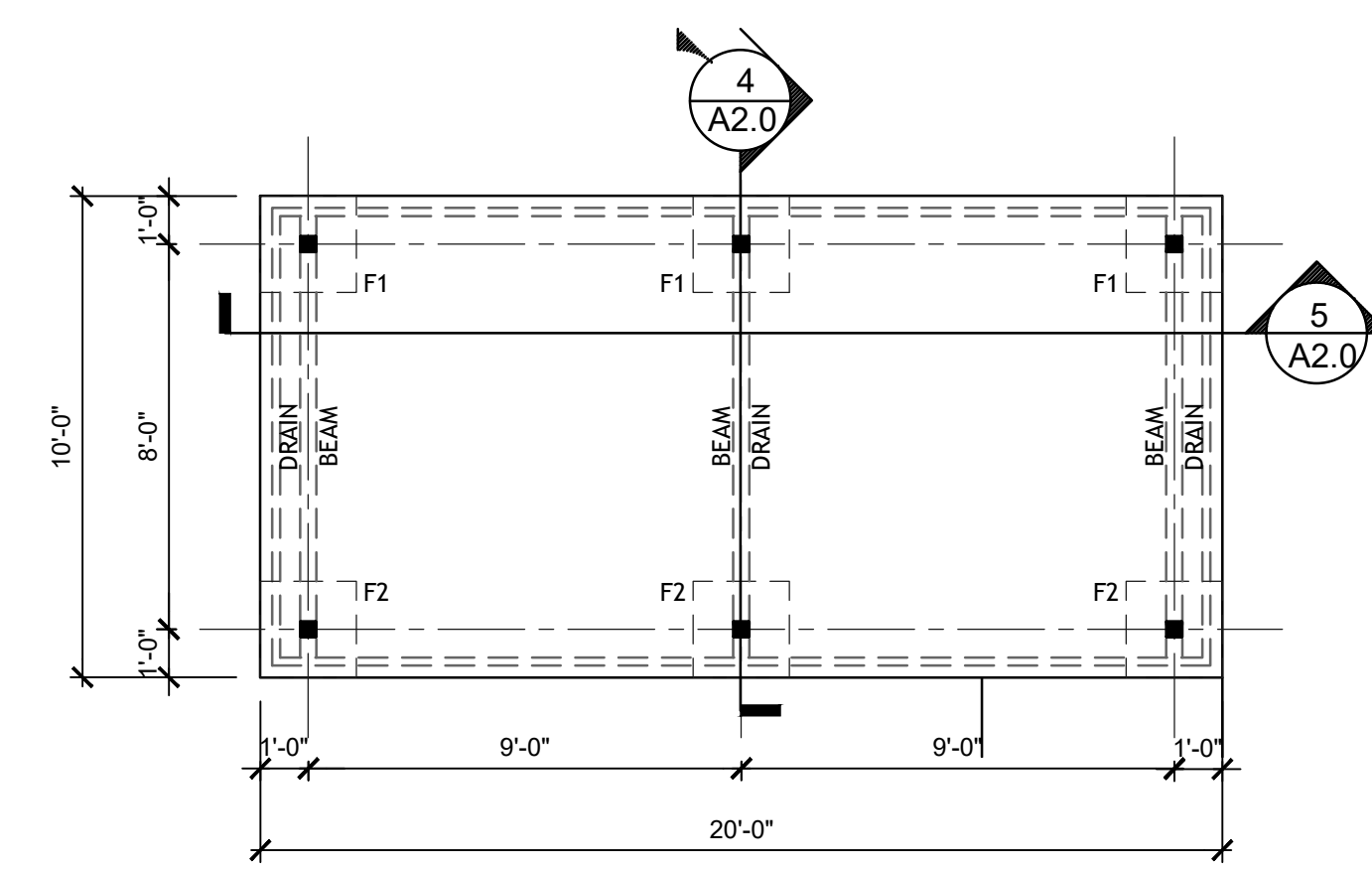
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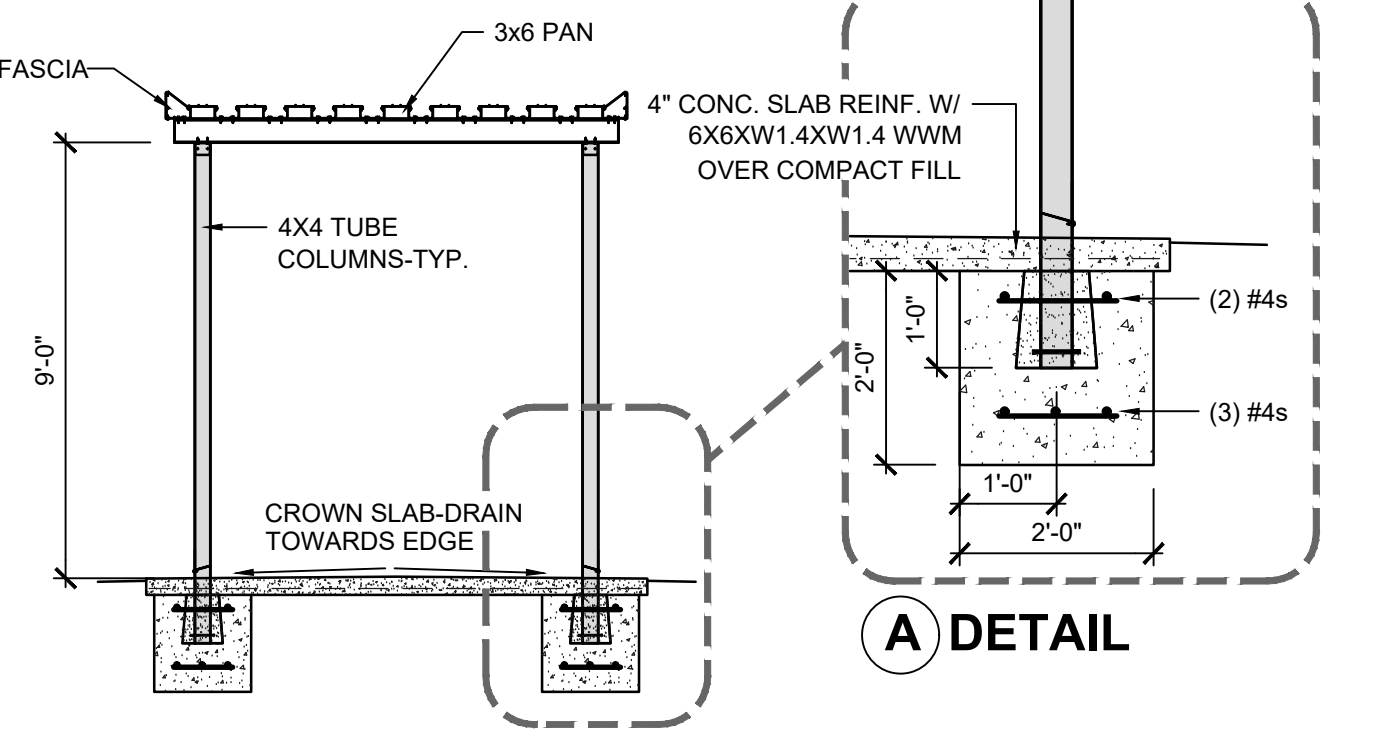
1 PRE-FAB METAL STRUCTURE - ELEVATION
 A2.0 SCALE: 1/4"=1'-0"



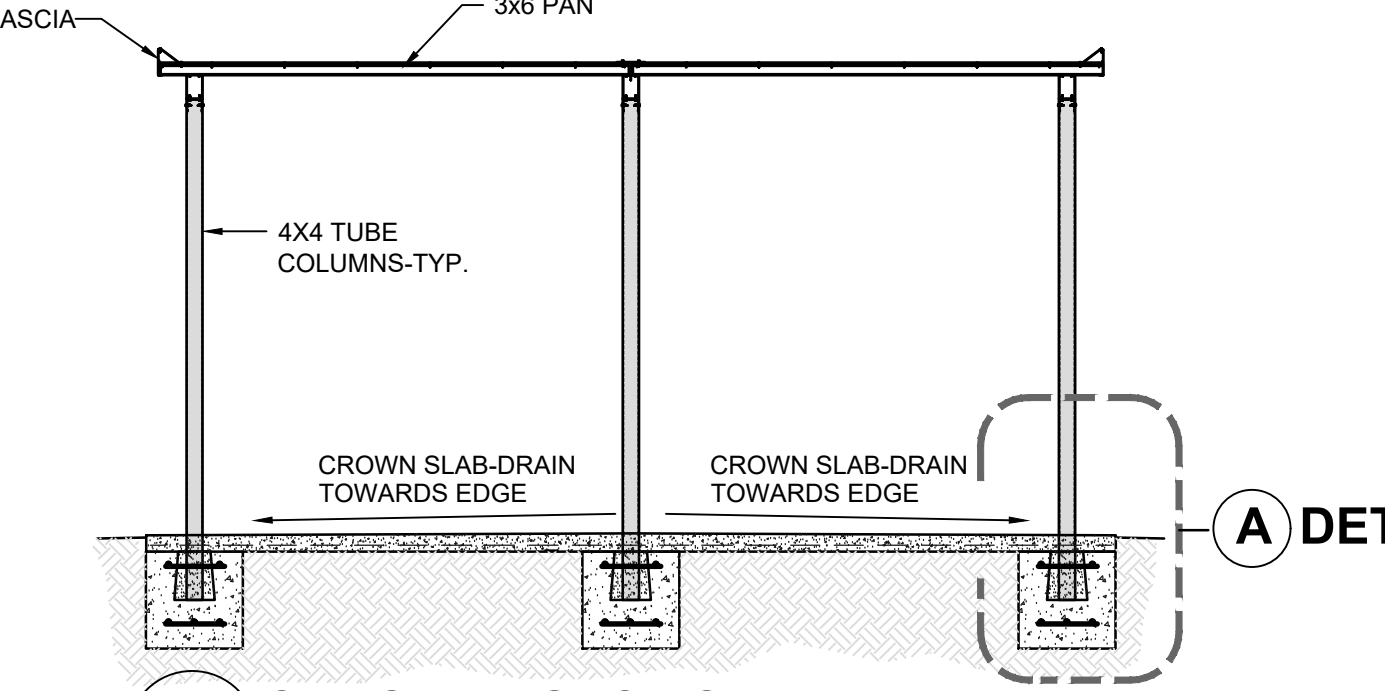
2 PRE-FAB METAL STRUCTURE - ELEVATION
 A2.0 SCALE: 1/4"=1'-0"



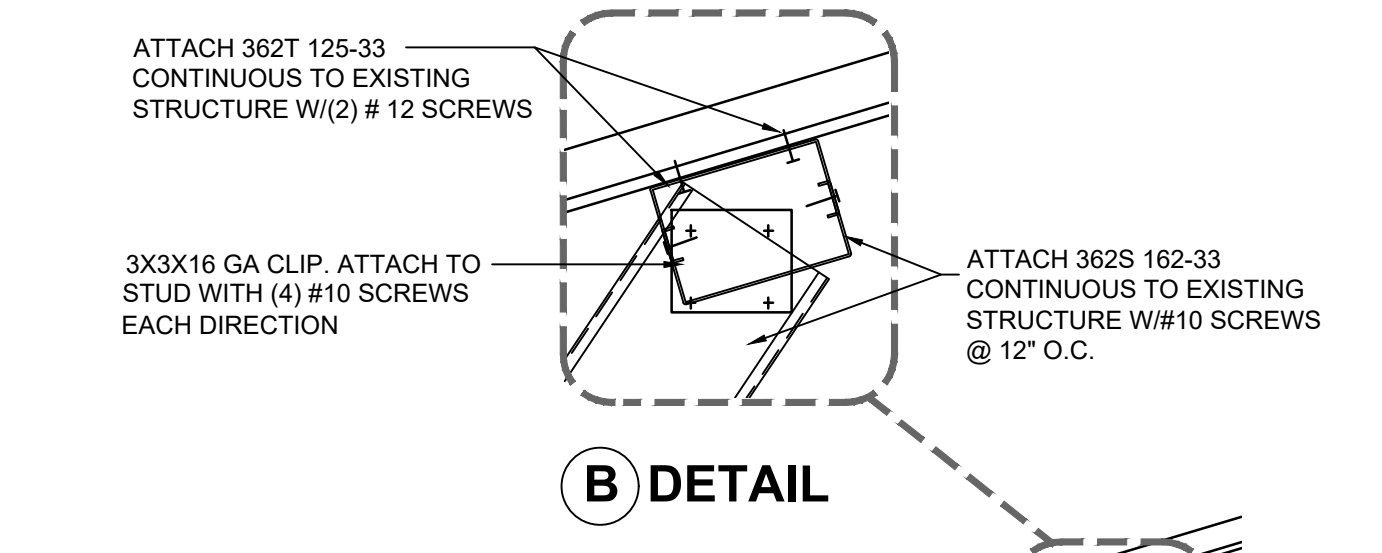
3 CANOPY - PLAN
 A2.0 SCALE: 1/4"=1'-0"



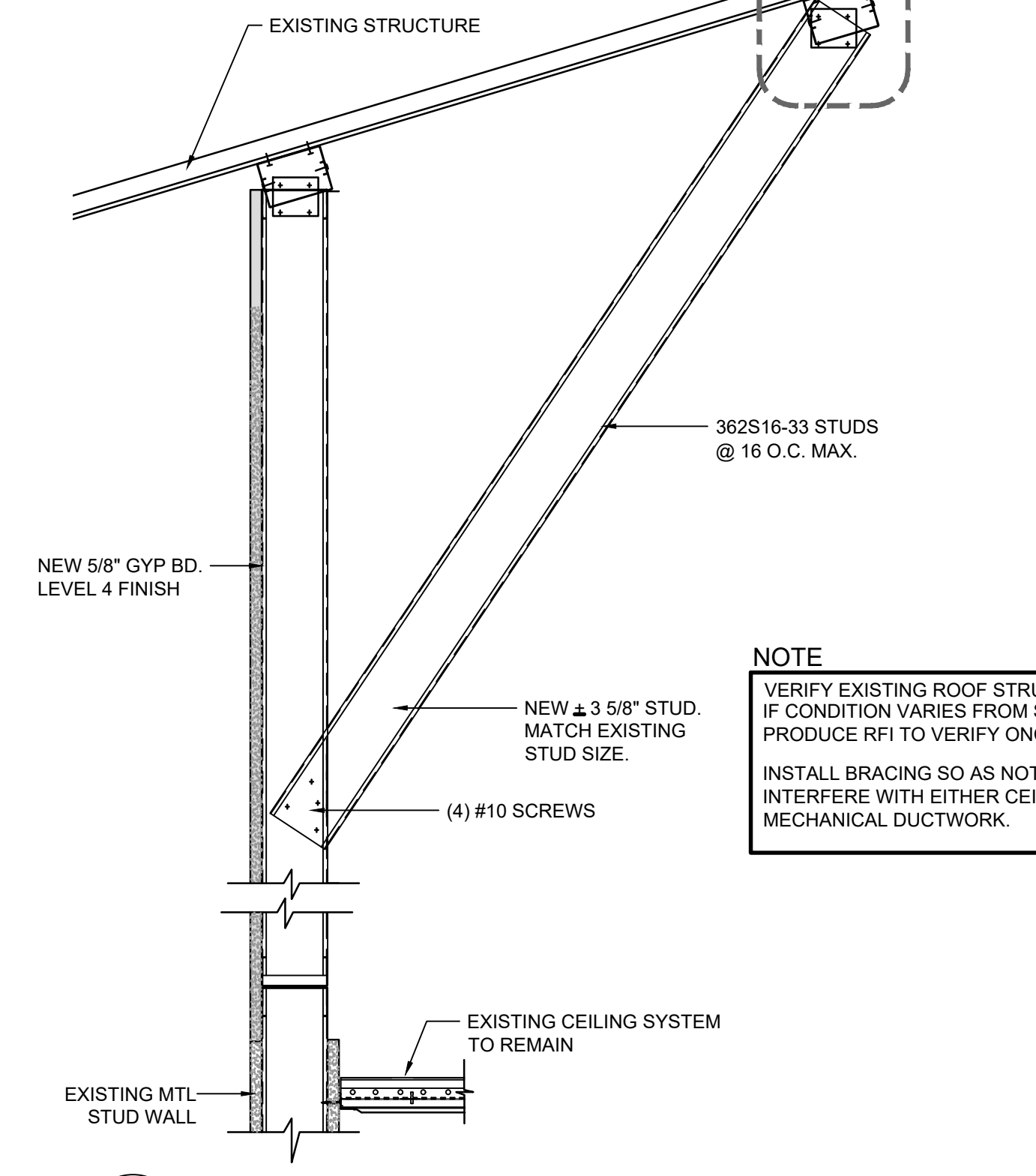
4 CANOPY - SECTION
 A2.0 SCALE: 1/4"=1'-0"



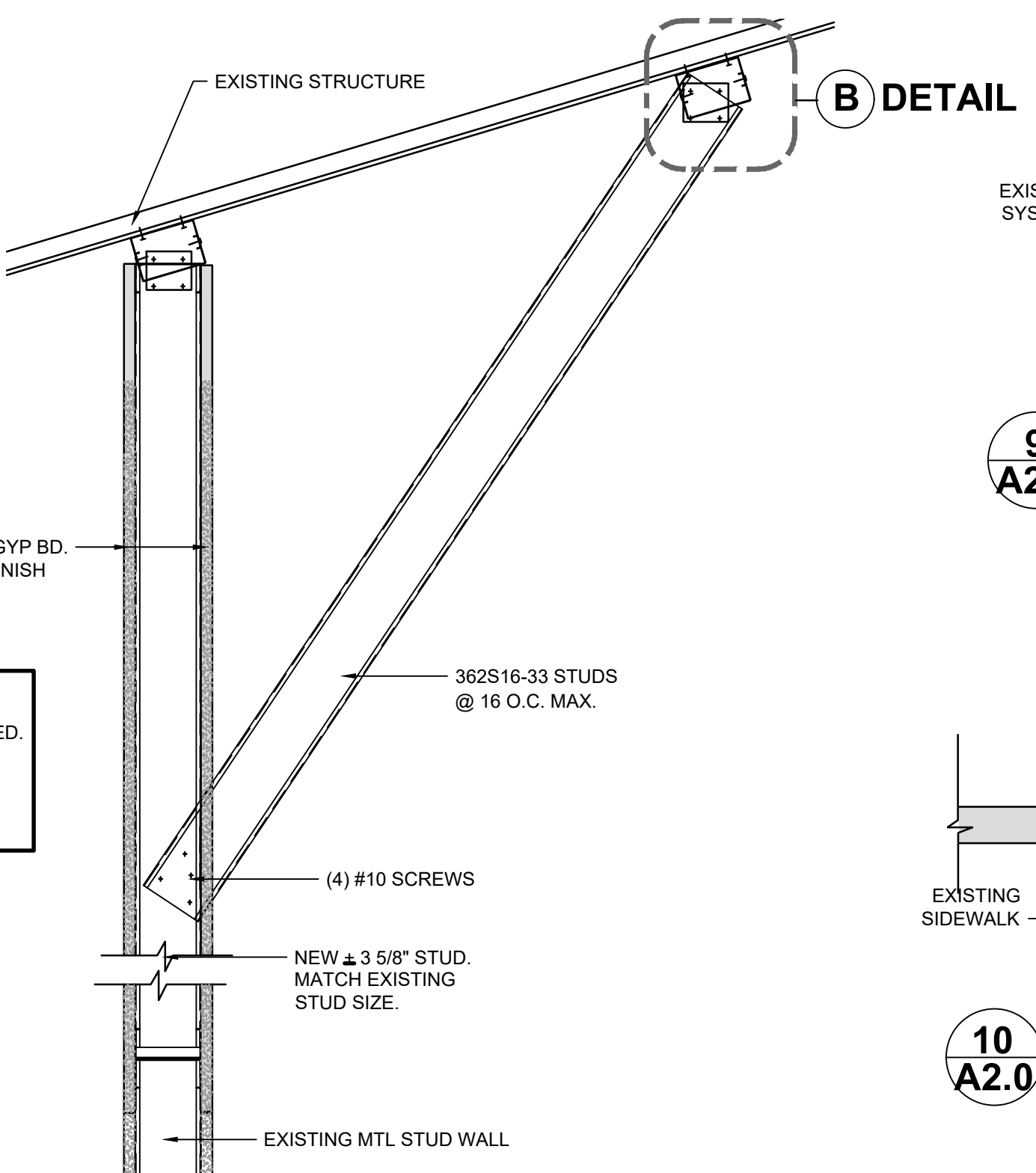
5 CANOPY - SECTION
 A2.0 SCALE: 1/4"=1'-0"



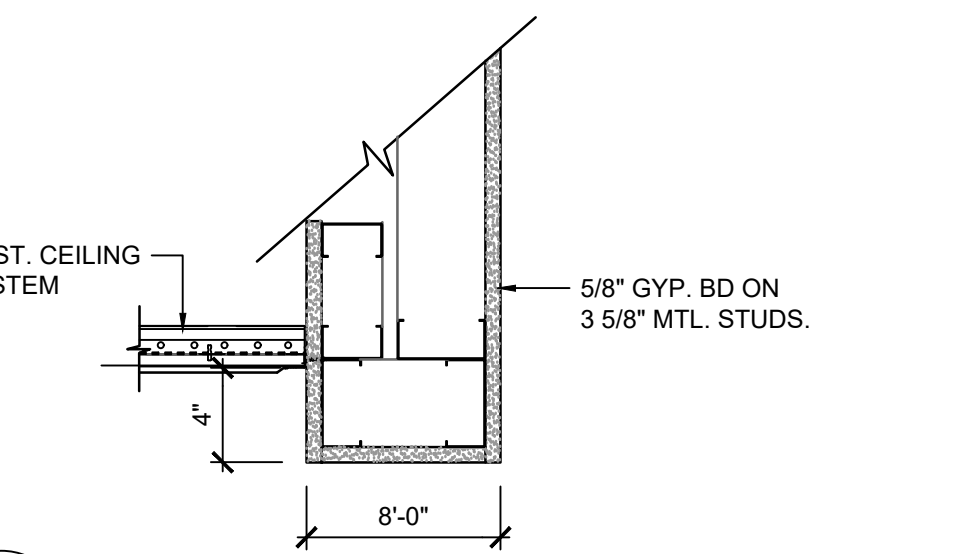
B DETAIL



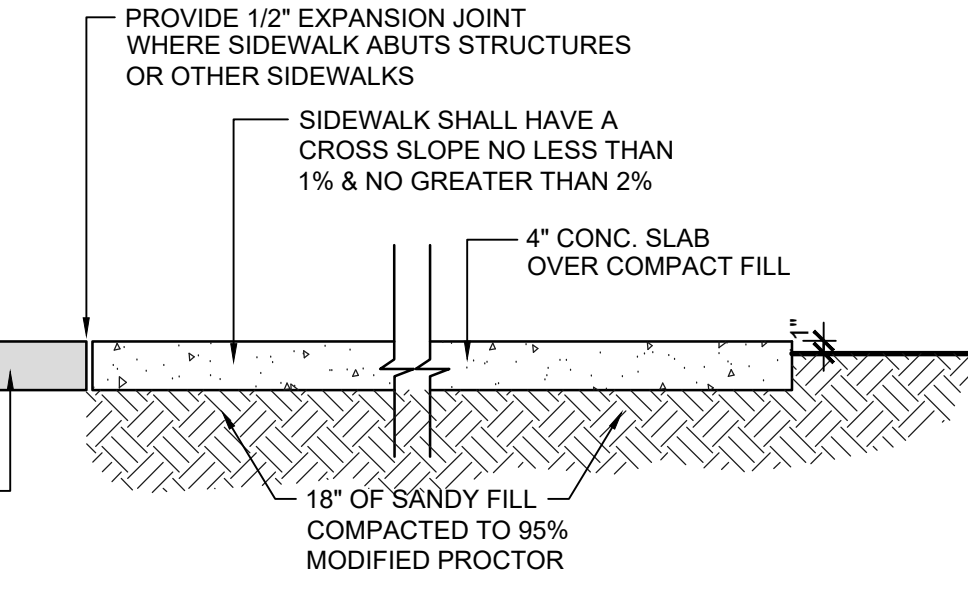
7 SECTION @ EXISTING CEILING TO REMAIN
 A2.0 SCALE: 1 1/2"=1'-0"



8 SECTION @ EXPOSED STRUCTURE
 A2.0 SCALE: 1 1/2"=1'-0"

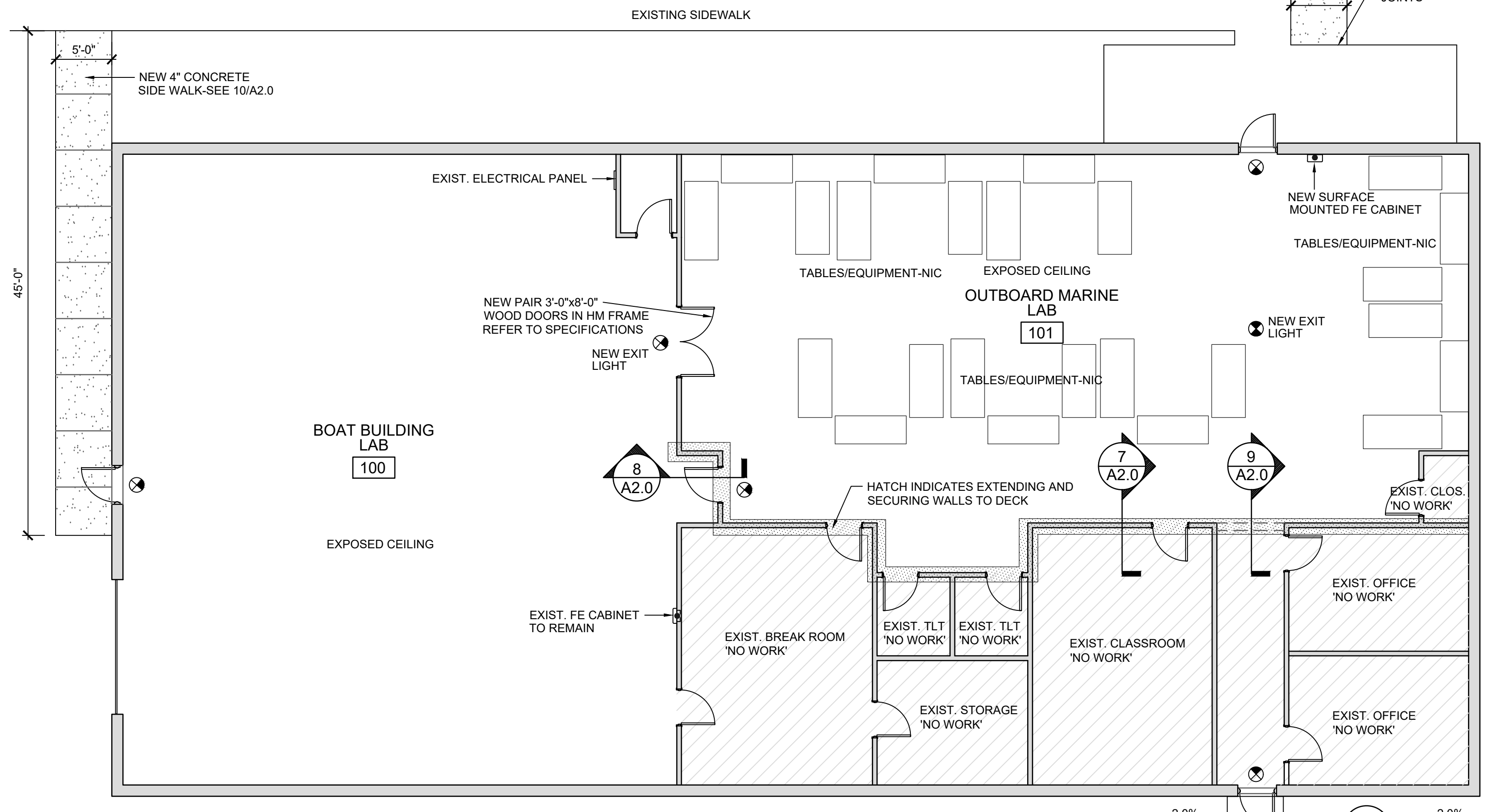


9 BULKHEAD SECTION
 A2.0 SCALE: 1 1/2"=1'-0"



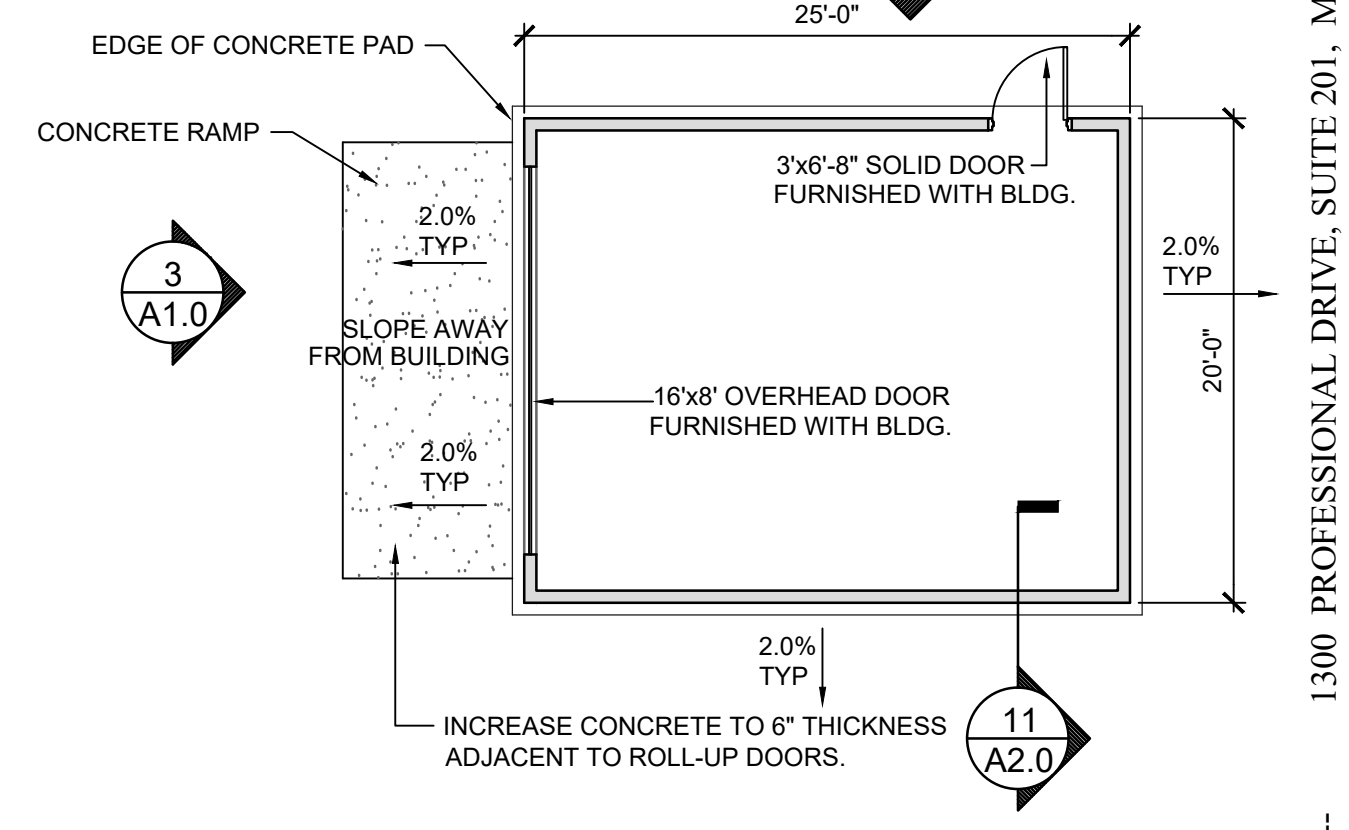
10 SIDEWALK - SECTION
 A2.0 SCALE: 3/4"=1'-0"

- NOTES:**
1. INSTALL OPEN CANOPY IN ACCORDANCE WITH CANOPY SECTIONS ON SHEET A1.0
 2. INSTALL THE CONCRETE PAD 0.5-FEET BELOW THE FFE OF EXISTING BUILDING 100.
 3. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATE AND FILED LOCATE UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF NEW CANOPY. CONTRACTOR SHALL ENSURE NEW CANOPY FOOTINGS HAVE A MINIMUM OF 5-FEET CLEARANCE FROM ANY EXISTING UTILITY, BOTH HORIZONTALLY AND VERTICALLY.
 4. CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL AND TOP SOIL TO A MINIMUM DEPTH OF 6-INCHES WITHIN THE CANOPY FOOTPRINT AND TO EXTEND 5-FEET OUTSIDE THE CANOPY IN ALL DIRECTIONS. COMPACT EXISTING SUBGRADE TO A MINIMUM 95% MODIFIED PROCTOR.
 5. ALL NEW FILL MATERIAL SHALL BE SANDY, STRUCTURAL FILL HAVING A MEASURED CBR VALUE OF AT LEAST 10%. FILL MATERIAL SHALL BE NON-PLASTIC AND SHOULD BE LIMITED TO A MAXIMUM SILT/CLAY FINES CONTENT OF 10% BY PASSING WEIGHT OF THE NO. 200 SIEVE.



6 RENOVATED PLAN - BUILDING 500
 A2.0 SCALE: 1/8"=1'-0"

- NOTES:**
1. CONTRACTOR, OWNER & ARCHITECT SHALL MEET IN THE FIELD TO STAKE OUT EXACT LOCATION OF NEW PRE-FAB METAL STRUCTURE.
 2. INSTALL PRE-FAB METAL STRUCTURE IN ACCORDANCE WITH DETAILS ON A2.0.
 3. INSTALL THE PAD FOR NEW STRUCTURE EQUAL TO THE FFE OF THE EXISTING BUILDING 500.
 4. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATE AND FILED LOCATE UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF NEW CANOPY. CONTRACTOR SHALL ENSURE NEW CANOPY FOOTINGS HAVE A MINIMUM OF 5-FEET CLEARANCE FROM ANY EXISTING UTILITY, BOTH HORIZONTALLY AND VERTICALLY.
 5. CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL AND TOP SOIL TO A MINIMUM DEPTH OF 6-INCHES WITHIN THE CANOPY FOOTPRINT AND TO EXTEND 5-FEET OUTSIDE THE CANOPY IN ALL DIRECTIONS. COMPACT EXISTING SUBGRADE TO A MINIMUM 95% MODIFIED PROCTOR.
 6. ALL NEW FILL MATERIAL SHALL BE SANDY, STRUCTURAL FILL HAVING A MEASURED CBR VALUE OF AT LEAST 10%. FILL MATERIAL SHALL BE NON-PLASTIC AND SHOULD BE LIMITED TO A MAXIMUM SILT/CLAY FINES CONTENT OF 10% BY PASSING WEIGHT OF THE NO. 200 SIEVE.



11 SECTION
 A2.0 SCALE: 1 1/2"=1'-0"

ROOM FINISH SCHEDULE					NOTES
ROOM NO.	DESCRIPTION	FLOOR	WALLS	CLG. HGT.	
		SEALED CONCRETE	EPOXY EG-SHELL	EXPOSED	
100	BOAT BUILDING LAB	○	○	○	100
101	OUTBOARD MARINE	○	○	○	101

BUILDING 500

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STATE OF SOUTH CAROLINA
 JOSEPH CHARLES PIKE
 MYRTLE BEACH, S.C. 27117
 REGISTERED ARCHITECT

OWNER
 Horry Georgetown Technical College
 GEORGETOWN, SC

PROJECT
 Horry-Georgetown Technical College
 Renovations to:
 Buildings 100 & 500
 South Carolina

COMM: 23002
 OSE: BLDG. 500: H59-N221-CB
 FILE: DRAWN BY: DP
 PLOT: 1=1
 DATE: 03-09-23
 REV:

SHEET

A2.0

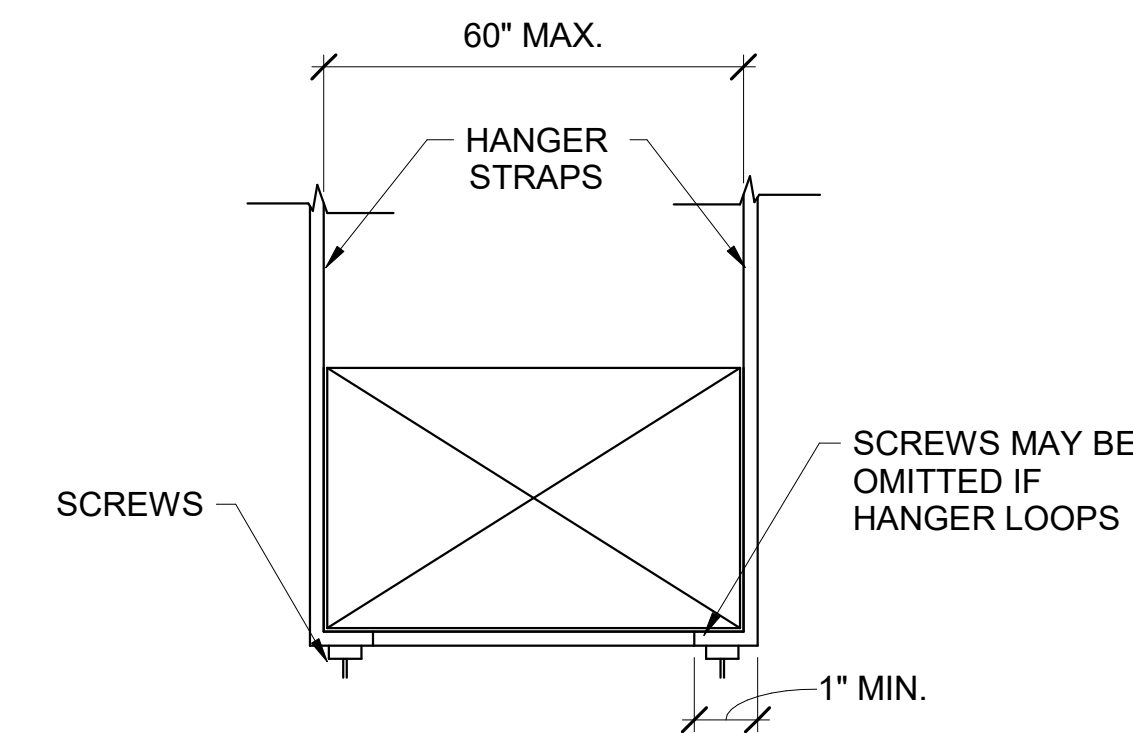
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GENERAL HVAC NOTES

- THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL INSTALLATION W/ THE STRUCTURE AND OTHER TRADES AND SHALL PROVIDE ADDITIONAL OFFSETS AND FITTINGS AS NECESSARY.
- THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH THE THE CODES LISTED ON THIS SHEET AS WELL AS ALL LOCAL CODE OFFICIAL REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN CODES, THE MOST STRINGENT SHALL ALWAYS GOVERN.
- DUCT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL CLEARANCES PRIOR TO FABRICATION OR INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING SYSTEMS. WHERE CONDITIONS REQUIRE A CHANGE IN DUCT OR PIPE ROUTING, NOTIFY THE ARCHITECT FOR AN ACCEPTABLE ALTERNATIVE METHOD. AVOID ROUTING DUCTWORK DIRECTLY OVER LIGHT FIXTURES, DIFFUSERS, AND OTHER CEILING MTD. DEVICES. LOCATE ALL MECHANICAL EQUIPMENT SO THAT FILTERS AND COMPONENTS REQUIRING ACCESS (SERVICE AND MAINTENANCE) ARE FULLY ACCESSIBLE. PROVIDE CURVED RADIUS ELBOW AT FIRST SUPPLY & RETURN FITTING FOR ALL HVAC UNITS. PROVIDE TURNING VANES IN ALL 90 DEGREE ELBOWS IN ALL RECTANGULAR SUPPLY/RETURN/EXHAUST DUCT SYSTEMS. ANY OFFSETS REQUIRED IN DUCT SYSTEMS SHALL BE INSTALLED PER SMACNA 2005 3RD EDITION MANUAL. SHARP ANGLED TRANSITIONS OR OFFSETS WILL NOT BE ALLOWED. PROVIDE DUCT ACCESS DOORS AS REQUIRED.
- INSTALL ALL DUCT MOUNTED DEVICES (DAMPERS, ACCESS DOORS, ETC.) AND PIPING SPECIALTIES IN EASILY ACCESSIBLE LOCATIONS. ADVISE THE ARCHITECT IN ADVANCE OF INSTALLATION IF ACCESS WILL BE HINDERED SO AN ALTERNATE LOCATION CAN BE SELECTED.
- ALL DUCT TAKE-OFFS SHALL BE INSTALLED AS SHOWN BY DETAILS ON THE PLANS WITH A MANUAL BALANCING DAMPER AT EVERY TAKE-OFF. WHERE DUCT RUN-OUT SIZE IS NOT SHOWN PROVIDE DUCT SAME SIZE AS GRILLE NECK SIZE. PRE-INSULATED FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO SUPPLY GRILLES (MAX. LENGTH 5').
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH PRESCRIBED CLEARANCES FOR SERVICE AND MAINTENANCE. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF RECOMMENDED CLEARANCES ARE NOT POSSIBLE BEFORE INSTALLING EQUIPMENT.
- ALL ROTATING MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION. PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS BETWEEN DUCTWORK AND ISOLATED MECHANICAL EQUIPMENT.
- THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF FIRE RATED WALLS/FLOORS/CEILINGS BY DUCTWORK PIPING, ETC., WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN FIRE RATING OF THE BARRIER.
- SEISMIC PROTECTION OF EQUIPMENT, DUCTWORK, PIPING AND UTILITIES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION. ALL SEISMIC RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS. FOR ADDITIONAL INFORMATION, SEE 'MECHANICAL SYSTEMS SEISMIC AND WIND REQUIREMENTS' ON THIS SHEET. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF SEISMIC BRACING DEVICES WITH THE OWNER'S SEISMIC SPECIAL INSPECTOR. PROVIDE A MINIMUM OF SEVEN DAYS ADVANCE NOTICE OF INSTALLATION.
- BALANCE ALL AIR DISTRIBUTION DEVICES, EXHAUST FANS, AND OUTSIDE AIR QUANTITIES AS SCHEDULED OR SHOWN ON THE DRAWINGS. PROVIDE MARKERS AT ALL DAMPER LOCATIONS SHOWING FULL OPEN/CLOSED POSITIONS AND DAMPER SETTING FOR REQUIRED AIRFLOW. PROVIDE FINAL TEST AND BALANCE REPORT ALONG W/ SCHEMATIC DRAWINGS SHOWING DIFFUSER LOCATION W/ DESIGN AND ACTUAL CFM. THE DIFFUSER TAGS ON THE DRAWINGS SHALL CORRESPOND TO THE DIFFUSER TAGS ON THE REPORT. THIS REPORT SHALL BE SUBMITTED BEFORE THE FINAL INSPECTION IS PERFORMED. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
- ALL CONTROL WIRING, CONDUIT AND CONTROLS ACCESSORIES NECESSARY TO IMPLEMENT THE OUTLINED SEQUENCES OF OPERATION SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR.
- WIND LOAD PROTECTION OF ROOF MOUNTED EQUIPMENT AND DUCTWORK SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16 OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION. ALL WIND LOAD RESTRAINT AND BRACING SHALL BE SUBSTANTIATED BY MANUFACTURER'S SUBMITTALS PER THE SPECIFICATIONS.
- WHERE "APPROXIMATELY" IS USED TO DEFINE INSTALLATION LOCATIONS, CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO VERIFY THERE ARE NO CONFLICTS PRIOR TO INSTALLATION AT DIMENSION LISTED.

MECHANICAL ABBREVIATIONS	
ABBR	DESCRIPTION
(E)	EXISTING
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BHP	BRAKE HORSE POWER
BOD	BASIS OF DESIGN
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
DB	DECIBELS
DIA	DIAMETER
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
FPM	FEET PER MINUTE
FT	FEET
HP	HEAT PUMP
HP	HORSEPOWER
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSANDS OF BTU'S PER HOUR
MC	MECHANICAL CONTRACTOR
MD	MANUAL DAMPER
NC	NOISE CRITERIA
OA	OUTSIDE AIR
PD	PRESSURE DROP
RA	RETURN AIR
REFR	REFRIGERANT
RH	RELATIVE HUMIDITY
RPM	ROTATIONS PER MINUTE
SA	SUPPLY AIR
TYP	TYPICAL
VNT	VENT
W/	WITH
°F	DEGREES FAHRENHEIT

HVAC SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AIR TERMINAL TAG, X=TYPE MARK, Y=CFM	---	COMPONENT TO BE DEMOLISHED
	AIR TERMINAL DIFFUSER (CEILING MOUNTED)		DUCTWORK (X" = WIDTH, Y" = HEIGHT)
	AIR TERMINAL RETURN GRILLE (CEILING MOUNTED)		TURNING VANES
	AIR TERMINAL EXHAUST GRILLE (CEILING MOUNTED)		CONDENSING UNIT
	SIDEWALL REGISTER / GRILLE		ROOFTOP UNIT
	THERMOSTAT		CEILING MOUNTED EXHAUST FAN
	HUMIDISTAT		PREINSULATED FLEXIBLE DUCT
	DUCT MOUNTED SMOKE DETECTOR (BY E.C.)		CABLE OPERATED DAMPER
	EQUIPMENT CLEARANCE		PITCH POCKET
	FIRE DAMPER		FLEXIBLE DUCT CONNECTION
	MANUAL DAMPER		CONNECTION TO EXISTING SYSTEM
	THERMOSTAT (DUCT MOUNTED)		MOTORIZED DAMPER
	HUMIDISTAT (DUCT MOUNTED)		



LOUVER SCHEDULE								
MARK	AIR PRESSURE DROP	AIR VELOCITY	CFM	DIMENSION FREE AREA	DIMENSION WIDTH	DIMENSION HEIGHT	BASIS OF DESIGN	MODEL
L-1	0.05 in-wg	585 FPM	2450	4.19 SF	32"	32"	RUSKIN	ELF6375DXD
L-2	0.04 in-wg	520 FPM	2760	5.31 SF	40"	32"	RUSKIN	ELF6375DXD

NOTES:

- EXTRUDED ALUMINUM, MILL FINISH, FLATTENED EXPANDED ALUMINUM BIRD SCREEN (MOUNTED ON INSIDE REAR OF LOUVER), EXTENDED SILL, LOUVER COLOR TO BE SELECTED BY ARCHITECT AND OWNER.

FAN SCHEDULE										
TAG	CAPACITY CFM	ESP INCHES WG	MOTOR HP	MAXIMUM SOUND RATING DB	TYPE	SYSTEM SERVED	FAN CONTROL	BASIS OF DESIGN	MODEL	
EF-1	2330	0.25	0.75	16.7	DIRECT	HVAC LAB 100	TOGGLE SWITCH	GREENHE CK	G-130-VG	
EF-2	2450	0.50	0.75	10	DIRECT	BOAT LAB 100	TOGGLE SWITCH	GREENHE CK	SQ-160-VG	
EF-3	2760	0.50	0.75	11.8	DIRECT	MARINE LAB 101	TOGGLE SWITCH	GREENHE CK	SQ-160-VG	

NOTES:

- REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- EF-1 SHALL BE PROVIDED WITH SEISMIC CURB.
- PROVIDE EXHAUST FANS WITH INTEGRAL BACKDRAFT DAMPER, SPEED CONTROLLER, AND SINGLE POINT POWER CONNECTION WITH INTEGRAL DISCONNECT.

AIR DEVICE SCHEDULE										
MARK	MANUFACTURER	MODEL	TYPE	USE			MTG	SIZE	FINISH	NOTES
				SA	RA	EA				
A	HART & COOLEY	SVH	REGISTER	X			SPIRAL DUCT	16 x 6	ALUMINUM	4-WAY BLOW
B	HART & COOLEY	SVH	REGISTER	X			SPIRAL DUCT	12 x 6	ALUMINUM	4-WAY BLOW
E	VARIES	VARIES	VARIES	X	X		VARIES	VARIES	VARIES	VARIES
R1	HART & COOLEY	HM	GRILLE		X		DUCT	22"x22"	WHITE	-
R1	HART & COOLEY	RESt	GRILLE			X	LAY-IN	22"x22"	WHITE	-

NOTES:

- ALL REGISTERS AND GRILLES SHALL BE ALUMINUM.

MECHANICAL CODES AND STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)	
CODE	DESCRIPTION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IMC (2021)	INTERNATIONAL MECHANICAL CODE
NFPA 90A (2021)	STANDARD FOR THE INSTALLATION AIR-CONDITIONING & VENTILATING SYSTEMS
SMACNA (2020)	HVAC DUCT CONSTRUCTION STANDARDS MANUAL, FOURTH EDITION

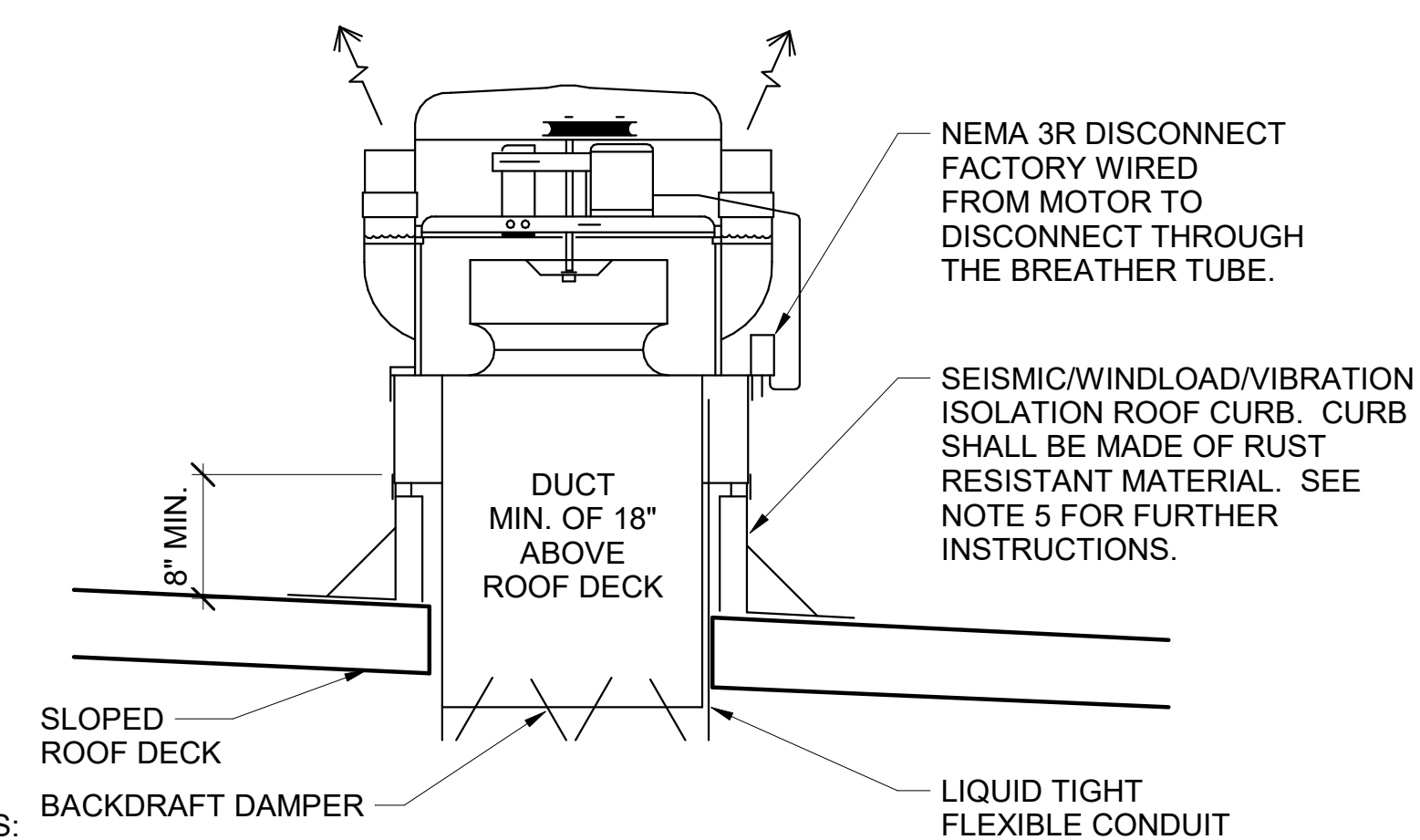
DESIGN CONDITIONS	
SUMMER	OUTDOOR: 95F DB / 80F WB INDOOR: 75F DB / 50% RH
WINTER	OUTDOOR: 25F DB INDOOR: 70F DB / 50% RH

TABLE 4-1 RECTANGULAR DUCT HANGERS MINIMUM SIZE								
MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 5 FT. SPACING		PAIR AT 4 FT. SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2= 30"	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	12 GA. (.106")	1" X 22 GA.	12 GA. (.106")
P/2= 72"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"	1" X 22 GA.	1/4"	1" X 22 GA.	1/4"
P/2= 96"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	3/8"	1" X 22 GA.	1/4"
P/2= 120"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"
P/2= 168"	1-1/2"X16GA.	1/2"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"
P/2= 192"	NOT GIVEN	1/2"	1-1/2"X16GA.	1/2"	1" X 16 GA.	3/8"	1" X 16 GA.	3/8"
P/2=193" UP	SPECIAL ANALYSIS REQUIRED							

WHEN STRAPS ARE LAP JOINED, USE THESE MINIMUM FASTENERS
 1" X 18,20,22 GA. - TWO #10 OR ONE 1/4" BOLT
 1" X 16 GA. - TWO 1/4" DIA.
 1-1/2" X 16 GA. - TWO 3/8" DIA.
 PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE.

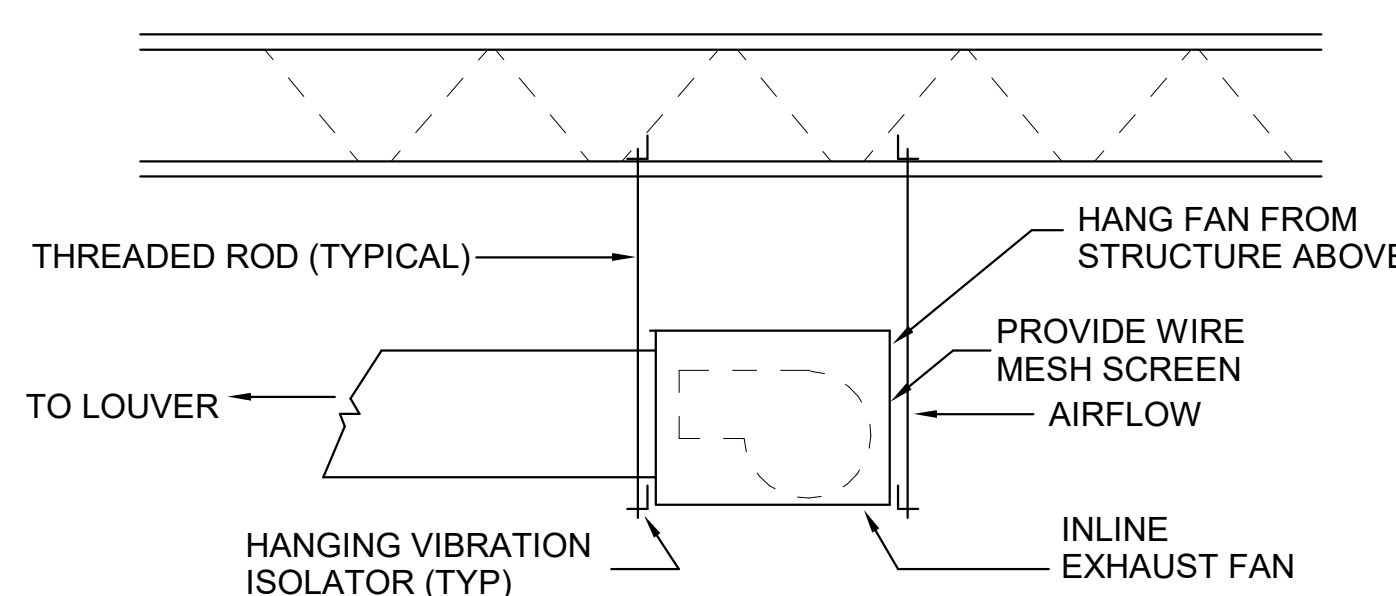
SINGLE HANGER MAXIMUM ALLOWABLE LOAD		
	STRAP	WIRE OR ROD (DIA.)
1" X 22 GA.	- 260 LBS.	1/4"-270 LBS.
1" X 20 GA.	- 320 LBS.	3/8"-680 LBS.
1-1/2" X 16 GA.	- 420 LBS.	1/2"-1250 LBS.
1" X 16 GA.	- 700 LBS.	5/8"-2000 LBS.
1-1/2" X 16 GA.	- 1100 LBS.	3/4"-3000 LBS.

3 SUPPORT DETAIL
SCALE: NOT TO SCALE



- NOTES:
- PROVIDE FAN WITH HINGE FOR MAINTENANCE AND CLEANING.
 - BACKDRAFT DAMPERS SHALL BE INSTALLED SUCH THAT DAMPERS OPEN ONLY ONCE FAN IS ENERGIZED.

5 UPBLAST FAN INSTALLATION DETAIL
SCALE: NOT TO SCALE

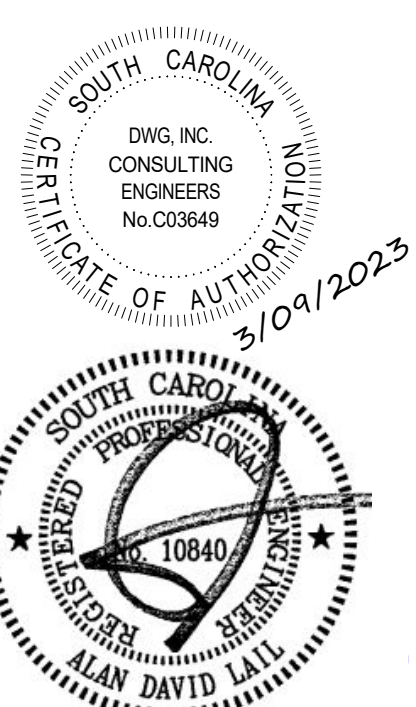


4 IN-LINE EXHAUST INSTALLATION DETAIL
SCALE: NOT TO SCALE



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PROJECT

HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN,
SOUTH CAROLINA

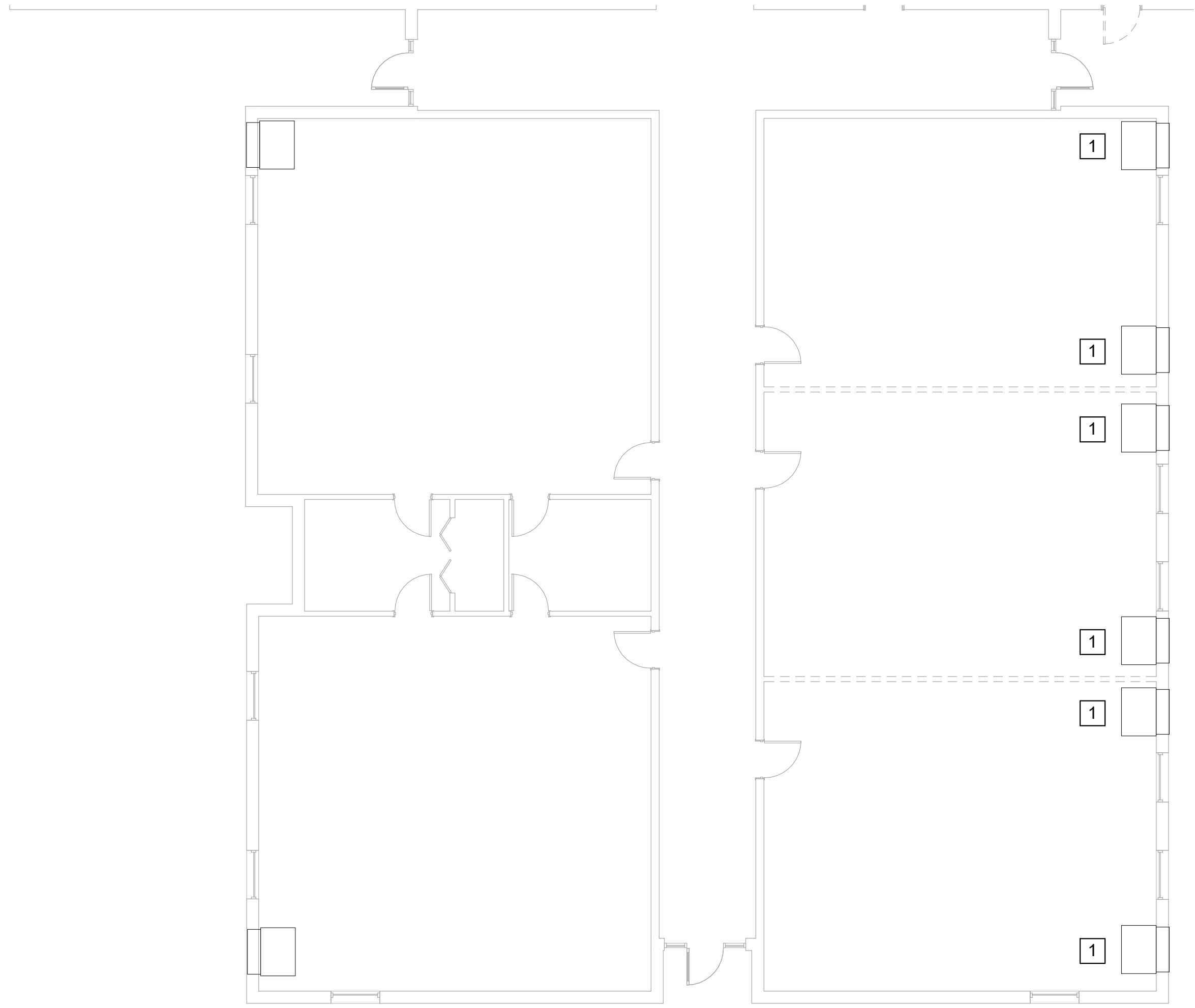
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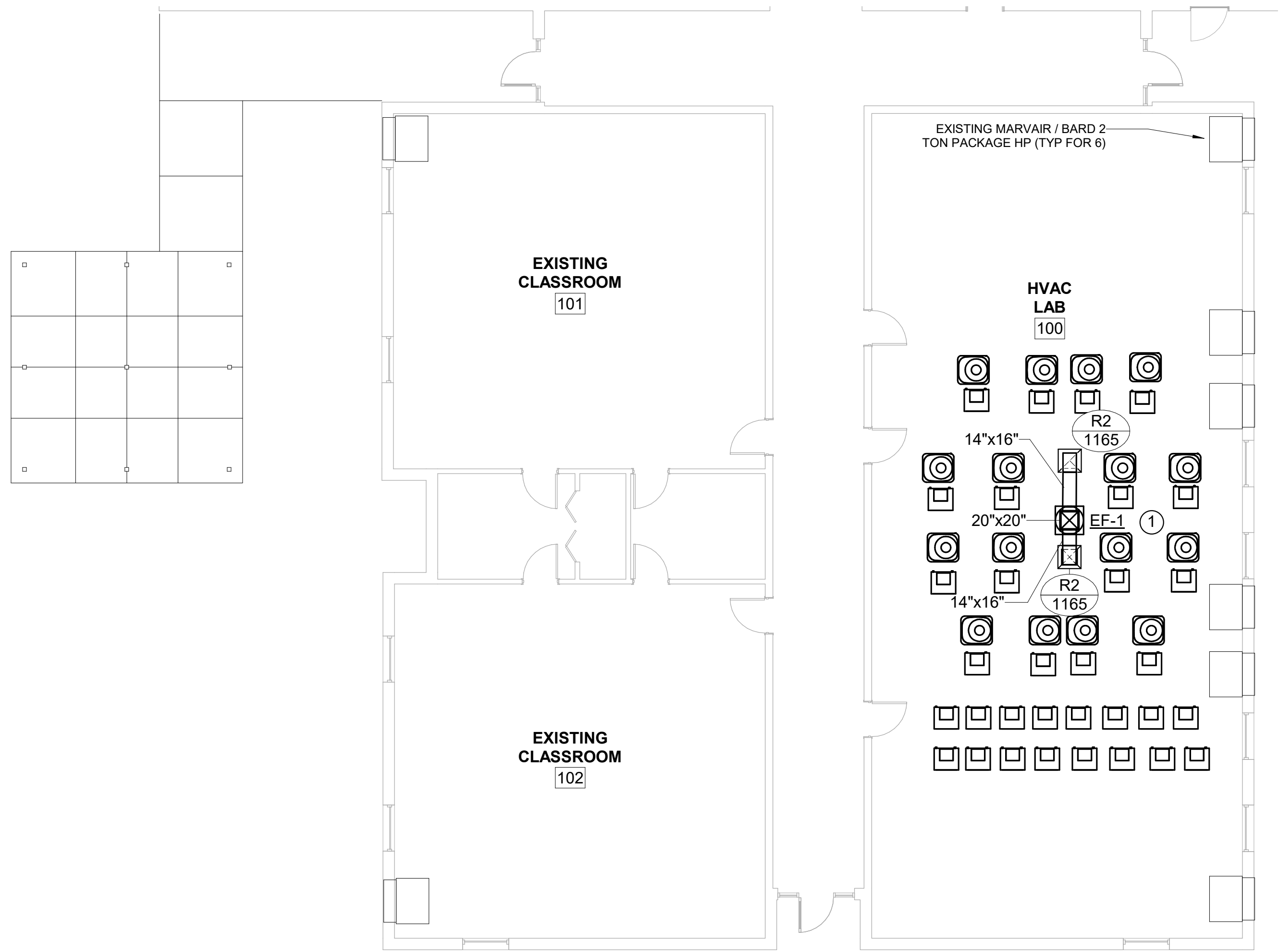
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1 BUILDING 100 MECHANICAL DEMOLITION PLAN
M101 SCALE: 1/8" = 1'-0"



2 BUILDING 100 MECHANICAL PLAN
M101 SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

1 EXISTING TO REMAIN UNCHANGED.

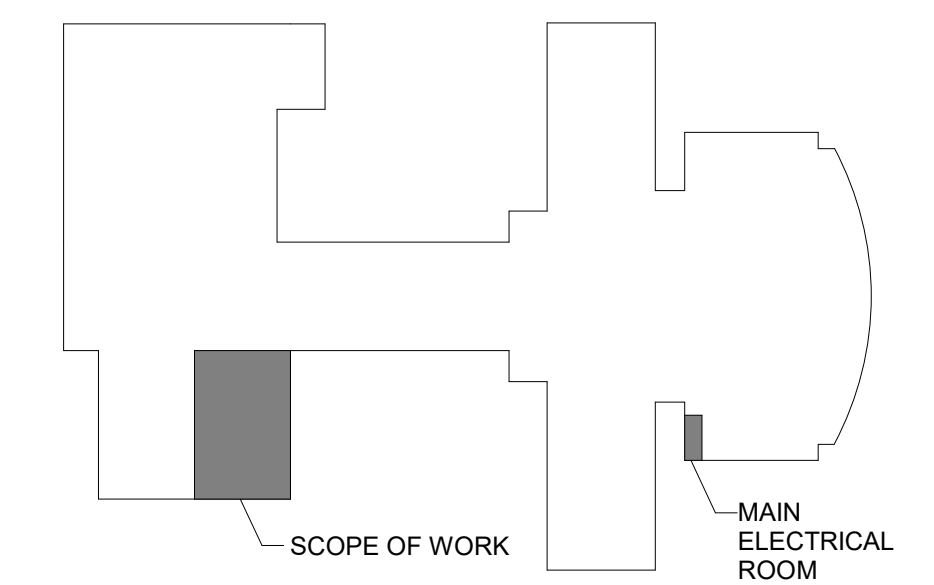
RENOVATION KEYNOES

1 NEW ROOF MOUNTED EXHAUST FAN ROUTED TO LAY IN CEILING GRILLES.

GENERAL NOTES

1. DEMO: EXISTING PACKAGE UNITS IN BUILDING 100 TO REMAIN IN PLACE.

BUILDING 100 KEYPLAN



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DWG, INC.
CONSULTING ENGINEERS
No. C23649
3/09/2023
SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
10840
DAVID LALL

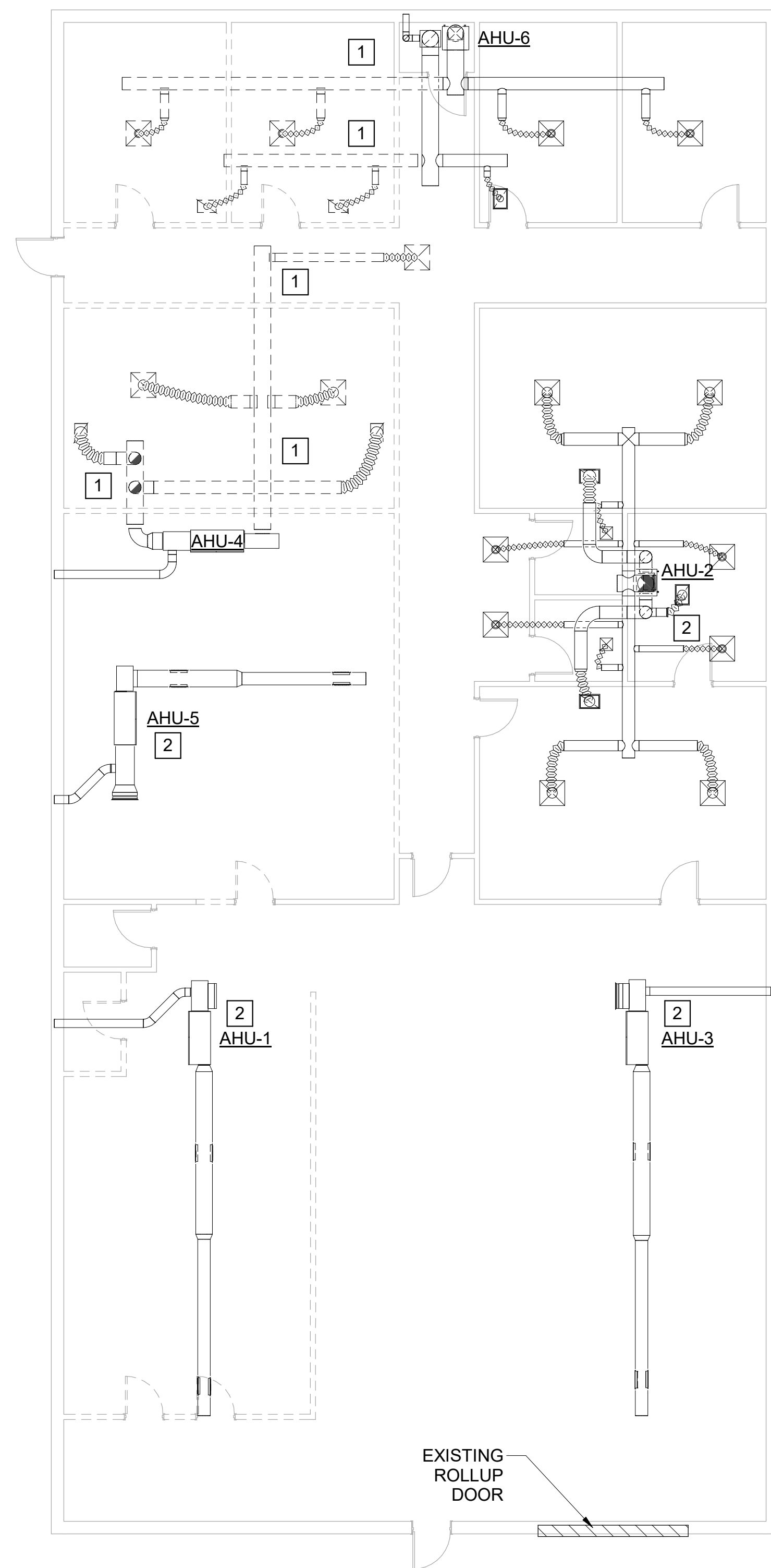
PROJECT
HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN, SOUTH CAROLINA

COMM: 23002
OSE:
BLDG. 100: H59-N220-CB
FILE: 23004-00
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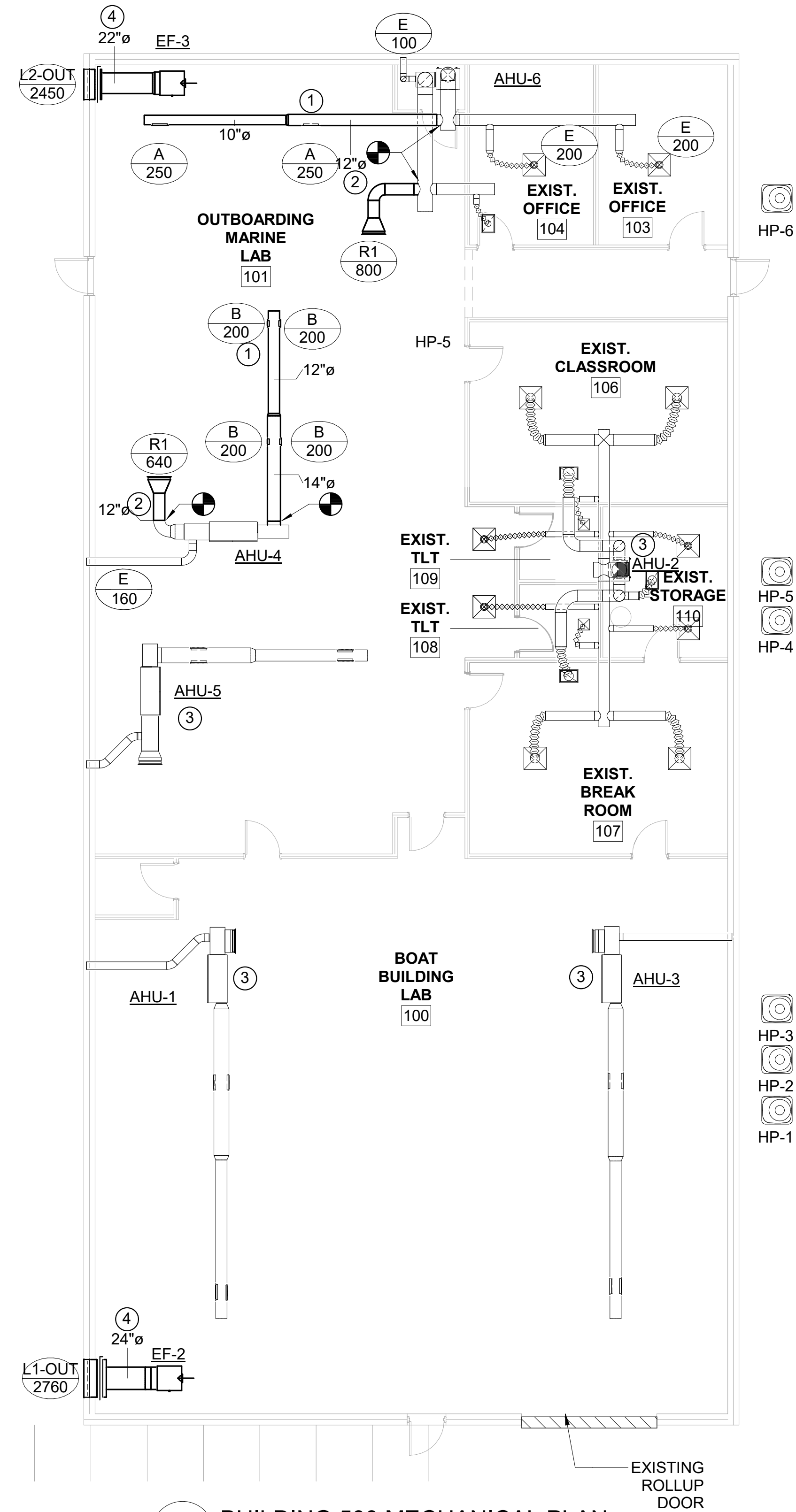
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M101

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1 BUILDING 500 MECHANICAL DEMOLITION PLAN
M102 SCALE: 1/8" = 1'-0"



2 BUILDING 500 MECHANICAL PLAN
M102 SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

- 1** EXISTING DUCTWORK AND AIR DEVICES TO BE REMOVED.
- 2** EXISTING TO REMAIN UNCHANGED.

RENOVATION KEYNOES

- 1** NEW SUPPLY SPIRAL DOUBLE WALL DUCT WITH 1" INSULATION AND SIDEWALL REGISTERS MOUNTED AT 45 DEGREE ANGLE. VERIFY SIZE OF EXISTING DUCT CONNECTION.
- 2** NEW RETURN DUCT. VERIFY SIXE OF EXISTING DUCT CONNECTION.
- 3** EXISTING TO REMAIN UNCHANGED.
- 4** NEW SINGLE WALL SPIRAL DUCT ROUTED BETWEEN INLINE EXHAUST FAN AND EXHAUST LOUVER.

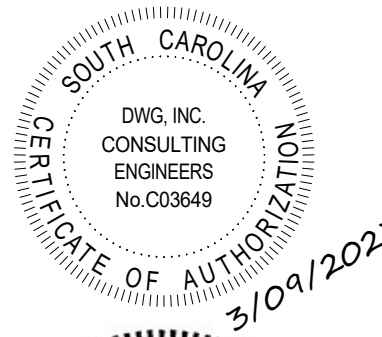
GENERAL NOTES

- 1. PROVIDE MANUAL DAMPER FOR EACH SUPPLY AND RETURN AIR DEVICE.
- 2. AIR BALANCE REQUIRED ONLY FOR UNITS WITH MODIFIED DUCTWORK.
- 3. DEMO: EXISTING AIR HANDLING UNITS AND HEAT PUMPS IN BUILDING 500 TO REMAIN IN



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PROJECT

HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN, SOUTH CAROLINA

COMM: 23002
OSE:
BLDG. 500: H59-N221-CB
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DRAWN BY: ADL
PLOT:
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ELECTRICAL SYSTEMS SEISMIC REQUIREMENTS PER IBC-2021/ASCE 7-22

- A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7.
- B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7.
- C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
- D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
- E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
- F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.
- G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
- H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

ELECTRICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0	Ip = 1.5
----------	----------

- ALL ASSOCIATED ELECTRICAL WORK UNLESS NOTED OTHERWISE
- EMERGENCY LIGHTS
- EXIT LIGHTS
- FIRE ALARM

SEISMIC DESIGN CATEGORIES D,E,F

COMPONENT IDENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	COMPONENT IMPORTANCE FACTOR (Ip)		
		NOTES	1.5	
			1.0	1.5
ROOF MOUNTED	RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
WALL MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
COMPONENT SUPPORTS	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	RESTRAIN ALL	1	RESTRAIN ALL	-
SINGLE CONDUIT	RESTRAIN IF ≥ 2.5"	3	RESTRAIN IF ≥ 2.5"	3
CABLE TRAY/BUS DUCT TRAPEZED CONDUIT	DO NOT DELETE ON TRAPEZE > 2.5". RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3	RESTRAIN IF ANY CONDUIT ON TRAPEZE > 2.5". RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3
COMPONENT CERTIFICATION	NOT REQUIRED	-	REQUIRED	5
PENDANT, LAY-IN AND CAN LIGHTS	REQUIRED	4	REQUIRED	4

- NOTES:
- EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
 - RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER MASS AT 4' OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
 - RESTRAINT IS NOT REQUIRED IF THE CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE RUN IS 12" IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12" IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
 - THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.
 - COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

GENERAL DEMOLITION NOTES

- ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY THE OWNER'S PROJECT MANAGER. MATERIALS THAT THE OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- IT IS ANTICIPATED THAT DEMOLITION OF EXISTING BRANCH CIRCUITS MAY INTERRUPT POWER TO DEVICES IN AREAS OUTSIDE THE SCOPE OF WORK. PRIOR TO REMOVING EXISTING CIRCUITS TRACE ALL CIRCUITS THAT EXTEND BEYOND THE PROJECT LIMITS AND WILL BE AFFECTED BY NEW WORK. THE CONTRACTOR SHALL INCLUDE IN BID SUFFICIENT COSTS TO IDENTIFY AND RECONNECT THESE AREAS TO SPARE CIRCUITS IN EXISTING PANELS IN MANNER ACCEPTABLE TO OWNER.

GENERAL ELECTRICAL NOTES

- BRANCH CIRCUIT WIRING FOR 20A CIRCUITS SHALL BE SIZED PER WIRE SIZING CHART. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES IN OUTLET BOXES IS NOT REQUIRED TO BE LARGER THAN #12.
- PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS AND MILLWORK SHOP DRAWINGS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, SUCH AS 5'-0" IN ANY DIRECTION, SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER. UNDERCABINET LIGHT FIXTURES, RECEPTACLES AND OTHER DEVICES TO BE MOUNTED INSIDE CABINETS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO ROUGH IN TO CONFIRM THE EXACT LOCATION OF FIXTURES AND DEVICES.
- COORDINATE THE LOCATION OF ALL FLOOR BOXES [AND POKE-THRU] WITH THE ARCHITECT PRIOR TO ROUGH IN. ALL FLOOR BOXES [AND POKE-THRU] SHALL BE INSTALLED TO MAINTAIN THE FIRE RATING OF THE FLOOR. COORDINATE CORE DRILLING HOLES IN FLOOR WITH STRUCTURAL ENGINEER.
- OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC. MOUNTED ON OPPOSITE SIDES OF PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBERS IN THE WALL. [WHERE OUTLET BOXES ARE INSTALLED IN A FIRE-RATED PARTITION, INSTALLATION SHALL COMPLY WITH INTERNATIONAL BUILDING CODE 714.4.2.]
- RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILINGS, BELOW FLOOR AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. EXPOSED RACEWAYS MAY BE USED IN UNFINISHED SPACES, WHERE EXPLICITLY NOTED ON PLANS AND WHERE APPROVED BY THE ARCHITECT AND ENGINEER. LAY OUT EXPOSED RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- FEEDER CONDUITS, BRANCH CIRCUITS AND CABLE TRAY ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION. [COORDINATE THE ROUTING OF UNDERGROUND CONDUCTORS/CONDUITS WITH STRUCTURAL FOOTINGS OF BUILDING.] [FEEDER CONDUITS AND BRANCH CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.]
- WHERE LIGHT SWITCH AND ABOVE COUNTER RECEPTACLES ARE INDICATED TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE MOUNTED IN THE SAME BOX UNDER A COMMON DEVICE PLATE. [IN THE CASE WHERE THE DEVICE VOLTAGES ARE DIFFERENT, PROVIDE A PERMANENT VOLTAGE BARRIER IN THE BOX PER NEC 404.8.B.]
- A FIRESTOP SYSTEM SHALL BE USED TO SEAL ALL PENETRATIONS OF ELECTRICAL CONDUITS AND CABLES THROUGH FIRE-RATED PARTITIONS. THE FIRESTOP SYSTEM SHALL CONSIST OF A FIRE-RATED CAULK TYPE SUBSTANCE AND HIGH TEMPERATURE FIBER INSULATION BY STI OR APPROVED EQUAL. ONLY METAL CONDUIT SHALL BE USED TO PENETRATE FIRE-RATED PARTITIONS. SEE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE-RATED WALLS.
- [THE USE OF MC CABLE IS NOT ALLOWED, UNLESS NOTED OTHERWISE.] [THE USE OF MC CABLE IS ALLOWED ABOVE ACCESSIBLE CEILINGS AND IN STUD CONSTRUCTION ONLY. HOMERUNS TO PANEL SHALL BE WIRE IN RACEWAY ONLY, MC CABLE IS NOT ACCEPTABLE FOR HOMERUNS. MC CABLE IS ONLY ACCEPTABLE FOR 20A BRANCH CIRCUITS.]
- PROVIDE A LISTED EXPANSION/DEFLECTION FITTING FOR ALL CONDUIT CROSSING EXPANSION JOINTS PER NEC 300.4.H. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS.
- WHEREVER THE WORD "PROVIDE" IS USED ON THE ELECTRICAL DRAWINGS, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE.
- THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING: 1 - A COMMON NEUTRAL MAY BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS ONLY IF A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT OF ORIGIN IS PROVIDED PER NEC 210.4.B. 2 - MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS AND 1 GROUND) RATED FOR 30A OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DE-RATING CONDUCTORS PER NEC 310.15. 3 - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING.
- PROVIDE A U.L. LISTED LIGHTNING PROTECTION SYSTEM.

GENERAL LIGHTING NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF LIGHT FIXTURE TO ACOUSTICAL CEILING SYSTEM AND STRUCTURE.
- EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL SPACES SHALL BE DETERMINED IN THE FIELD. DO NOT SUPPORT FIXTURES FROM DUCT OR PIPING. PROVIDE CHAIN OR TRAPEZE-TYPE HANGERS WHERE FIXTURES CANNOT BE MOUNTED DIRECTLY TO CEILING.
- LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
- DOUBLE-FACED EXIT FIXTURES SHALL BE OF THE SAME MANUFACTURER AND SERIES AS THE SINGLE-FACED EXIT FIXTURES.
- REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, PROVIDE BATTERY BACK-UP FOR ALL FIXTURES INDICATED ON THE DRAWINGS [NOT CIRCUITED TO THE GENERATOR] [NOT CIRCUITED TO THE INVERTER] TO BE EMERGENCY TYPE. [FLUORESCENT BATTERY PACKS SHALL BE CAPABLE OF PROVIDING AT LEAST 1100 LUMENS OUTPUT FROM ONE LAMP FOR DURATION OF 1.5 HOURS. BOTH LAMPS OF A (2) LAMP FIXTURE SHALL BE SERVED BY THE EMERGENCY BALLAST, OUTBOARD LAMPS OF (3) AND (4) LAMP FIXTURES SHALL BE SERVED BY THE EMERGENCY BALLAST.]
- REGARDLESS OF HOW NOTED ON PLANS, ALL EMERGENCY LIGHTING FIXTURES INDICATED IN PRIVATE SPACES SHALL BE WIRED SO AS TO BE SWITCHED "ON/OFF" WITHOUT OPERATING THE EMERGENCY BATTERY BACK-UP. ALL EMERGENCY LIGHTING FIXTURES INDICATED IN PUBLIC SPACES OR MEANS OF EGRESS (CORRIDORS, LOBBIES, BATHROOMS, AUDITORIUMS, STAIRWELLS, ETC.) SHALL BE WIRED AHEAD OF LOCAL SWITCH AS A NIGHT LIGHT AND SHALL NOT BE SWITCHED. [EMERGENCY BATTERY BACK-UP] [LIGHTING INVERTER] SHALL NOT BE ACTIVATED UNLESS A LOSS OF NORMAL BUILDING POWER OCCURS.
- REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, ALL EXIT SIGNS [AND EMERGENCY LIGHTING UNITS] SHALL BE PROVIDED WITH BATTERY BACK-UP, SHALL BE WIRED AHEAD OF LOCAL SWITCH AND SHALL NOT BE SWITCHED.
- SWITCHING FOR EMERGENCY LIGHT FIXTURES SHALL BE PROVIDED WITH A RED COLORED SWITCH.
- ALL FLUORESCENT 4' LIGHT FIXTURES SHALL BE EQUIPPED WITH PROGRAMMABLE START TRIAD ENERGY SAVING INSTANT START SERIES ELECTRONIC BALLASTS, OR APPROVED EQUAL, AND 4100K, INSTANT-START LAMPS.
- WHERE INBOARD/OUTBOARD SWITCHING IS INDICATED, OUTBOARD LAMPS SHALL BE KEYED FROM ONE SWITCH AND THE INBOARD LAMP (OR LAMPS) FROM THE OTHER. THE SWITCH NEAREST THE DOOR SHALL SWITCH THE OUTBOARD LAMPS.

GENERAL HVAC CONTROLS CONDUIT NOTES

- PROVIDE CONDUIT FOR HVAC CONTROL CIRCUITS AS REQUIRED TO INTERCONNECT HVAC UNIT TO CONTROL CIRCUITS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND CONTROLS PROVIDER TO DETERMINE SCOPE OF CONDUITS REQUIRED FOR HVAC CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT. COORDINATE POINTS OF CONNECTION WITH DIVISION 23. PROVIDE PULL CORD IN ALL EMPTY CONDUITS. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL HVAC EQUIPMENT (AHU, HP, CU, RTU, DUCT SMOKE DETECTORS, VAV, FCU, THERMOSTATS, ETC).
- THESE DOCUMENTS MAY NOT INCLUDE ENTIRE ELECTRICAL INFRASTRUCTURE REQUIRED TO SUPPORT THE BUILDING AUTOMATION SYSTEM. COORDINATE WITH BAS PROVIDER ON ALL NECESSARY INFRASTRUCTURE FOR A COMPLETE AND WORKING SYSTEM.

GENERAL LOW VOLTAGE NOTES

- EXTEND A (3) 3" CONDUIT FROM THE COMMUNICATIONS BACKBOARD TO THE COMMUNICATIONS SERVICE POINT. SEE THE ELECTRICAL SITE PLAN FOR THE ASSUMED LOCATION, COORDINATE FINAL LOCATION WITH COMMUNICATIONS PROVIDER.

GENERAL FIRE ALARM SYSTEM NOTES

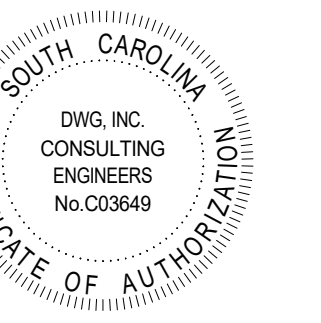
- PROVIDE ALL DUCT SMOKE DETECTORS AND ACCESSORIES NECESSARY FOR INTERLOCKING WITH MECHANICAL EQUIPMENT (AHU'S, SMOKE DAMPERS, ETC). COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS AND REQUIREMENTS.]
- INSTALL DUCT SMOKE DETECTORS TO COMPLY WITH NFPA 72. WHERE TWO DETECTOR LOCATIONS ARE SHOWN AT A SINGLE PIECE OF EQUIPMENT, INSTALL ONE DETECTOR IN THE SUPPLY DUCTWORK AND ONE DETECTOR IN THE RETURN DUCTWORK. COORDINATE MOUNTING LOCATION WITH THE MECHANICAL CONTRACTOR. [PROVIDE WEATHERPROOF ENCLOSURE FOR DUCT DETECTORS INSTALLED IN EXTERIOR DUCTWORK]. LOCATION SHOWN IS FOR REFERENCE ONLY.

GENERAL EXISTING CONDITION NOTES

- AREAS OF WORK EXIST FOR THIS PROJECT WHICH WERE NOT ACCESSIBLE OR HAD LIMITED ACCESS DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER. WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REPLACED, THE CONTRACTOR SHALL WORK THROUGH THE EXISTING CEILINGS (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK. ALL WORK PERFORMED ABOVE EXISTING CEILINGS SHALL BE PERFORMED AFTER HOURS AND SCHEDULED WITH THE OWNER IN ADVANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FIRESTOP SYSTEM IN ALL PENETRATIONS OF FIRE-RATED FLOORS AND WALLS CREATED BY THE REMOVAL OF EXISTING ELECTRICAL CONDUIT OR CABLES, AS WELL AS THOSE CREATED BY NEWLY INSTALLED CONDUITS AND SLEEVES.
- WHERE INSTALLATION REQUIRES CUTTING OR DRILLING OF THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL X-RAY THE EXISTING SLAB PRIOR TO WORK TO ENSURE THAT NO EXISTING UTILITIES OR STRUCTURAL ELEMENTS IN THE SLAB WILL BE COMPROMISED BY THE WORK. NOTIFY THE A/E OF ANY CONFLICTS THAT WILL REQUIRE RELOCATING THE PROPOSED SLAB WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURAL ELEMENTS CAUSED BY THE SLAB DEMOLITION.
- SUPPORT ALL EXISTING CONDUITS AND JUNCTION BOXES ABOVE THE CEILING IN THE CONSTRUCTION AREA PER NEC.
- REMOVE ALL ABANDONED CONDUIT, WIRE AND CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
- PROVIDE JUNCTION BOX COVERS ON ALL EXISTING JUNCTION BOXES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
- SUPPORT ALL EXISTING CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA.



PIKE ■ McFARLAND ■ HALL
ASSOCIATES, INC.
ARCHITECTS & PLANNERS



PROJECT

HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN,
SOUTH CAROLINA

COMM: 23002
OSE:
BLDG. 100: H59-N220-CB
BLDG. 500: H59-N221-CB
FILE: 23004-00
DRAWN BY: EMB
PLOT:
DATE: 03/09/23
REV:

SHEET

E001

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ELECTRICAL CODES AND STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)	
CODE	DESCRIPTION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IFC (2021)	INTERNATIONAL FIRE CODE
NFPA 70 (2020)	NATIONAL ELECTRICAL CODE
NFPA 72 (2020)	NATIONAL FIRE ALARM AND SIGNALING CODE

LIGHT SWITCH	DESCRIPTION
3	THREE WAY
4	FOUR WAY
D	DIMMER
LV	LOW VOLTAGE (CONNECT TO LCS)
OS	OCCUPANCY SENSOR

RECEPTACLE	DESCRIPTION
C	MOUNT ABOVE COUNTER
GD	GARBAGE DISPOSAL
M	MICROWAVE
R	REFRIGERATOR
SP	SUMP PUMP
U	RECEPTACLE WITH TWO USB PORTS
WC	WATER COOLER
WP	WEATHERPROOF

WIRE SIZING CHART 20 AMP BRANCH CIRCUITS	
DISTANCE, 120V	MINIMUM WIRE SIZE
0 - 90 FEET	#12 AWG
90 - 230 FEET	#10 AWG
230 - 446 FEET	#8 AWG
DISTANCE, 277V	MINIMUM WIRE SIZE
0 - 209 FEET	#12 AWG
209 - 533 FEET	#10 AWG
533 - 1033 FEET	#8 AWG

ELECTRICAL ABBREVIATIONS	
ABBR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
CBB	COMMUNICATIONS BACKBOARD
cd	CANDELA
CGB	COMMUNICATIONS GROUNDING BUSBAR
CLG	CEILING
DAS	DISTRIBUTED ANTENNA SYSTEM
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDS	FUSED DISCONNECT SWITCH
FSD	FIRE/SMOKE DAMPER
GBB	GROUND BUSBAR
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTING
GFI	GROUND-FAULT INTERRUPTING
GP	GENERAL PURPOSE
HP	HEAT PUMP
ICP	IRRIGATION CONTROL PANEL
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KW	KILOWATTS
LCS	LIGHTING CONTROL SYSTEM
MCGB	MAIN COMMUNICATIONS GROUNDING BUSBAR
NEC	NATIONAL ELECTRICAL CODE
NFDS	NON-FUSED DISCONNECT SWITCH
OC	ON CENTER
RTU	ROOF TOP UNIT
SPD	SURGE PROTECTION DEVICE
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED TWISTED PAIR
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

CONTROL PANELS	DESCRIPTION
BMS	BUILDING MANAGEMENT (AUTOMATION) SYSTEM
EMS	ENERGY MANAGEMENT SYSTEM
FACP	FIRE ALARM CONTROL PANEL
LCP	LIGHTING CONTROL PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT
SEC	SECURITY PANEL
VECP	VOICE EVACUATION CONTROL PANEL

JUNCTION BOX/SWITCH	DESCRIPTION
AD	AUTOMATIC DOOR
AF	AUTOMATIC FAUCET
CF	CEILING FAN
CP	CONTROL POWER
DF	DEFIBRILLATOR
DH	DOOR HARDWARE
DW	DISHWASHER
EF	EXHAUST FAN
EL	EXAM LIGHT
FD	FIRE DAMPER
FL	AUTOMATIC FLUSH
HD	HAND DRYER
HT	HEAT TRACE
HW	HEAT WHEEL
IC	IRRIGATION CONTROLLER
MD	MODULAR FURNITURE DATA
MP	MODULAR FURNITURE POWER
OH	OVERHEAD DOOR
PA	PUBLIC ADDRESS
SE	SOUND ENHANCEMENT
SG	SIGNAGE

LIGHTING SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	§	LIGHT SWITCH, SINGLE POLE
	LIGHT FIXTURE (SHADING INDICATES EMERGENCY, TYPICAL ALL LIGHTING SYMBOLS)	§ ^x	LIGHT SWITCH, "X" INDICATES SWITCH TYPE
	STRIP LIGHT FIXTURE	§ ^a	LIGHT SWITCH, LOWERCASE LETTER INDICATES SWITCHLEG
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	OS	OCCUPANCY SENSOR (CEILING MOUNTED)
	LIGHT FIXTURE (TYPICAL ALL DIMENSIONS)	OS	OCCUPANCY SENSOR (WALL MOUNTED)
	WALL MOUNTED LIGHT FIXTURE	VS	VACANCY SENSOR (CEILING MOUNTED)
	TRACK LIGHTING	VS	VACANCY SENSOR (WALL MOUNTED)
	POLE MOUNTED LIGHT FIXTURE	PC	PHOTOCELL LIGHTING CONTROL (CEILING MOUNTED)
	EMERGENCY LIGHTING UNIT	PC	PHOTOCELL LIGHTING CONTROL (WALL MOUNTED)
	EXIT SIGN, SINGLE SIDED (ARROWS INDICATE CHEVRON DIRECTION)	⏏	LIGHTING CONTROL SCHEME CALLOUT (SEE SCHEDULE)
	EXIT SIGN, DOUBLE SIDED (ARROWS INDICATE CHEVRON DIRECTION)	⏏	EXIT SIGN WITH TWO EMERGENCY HEADS

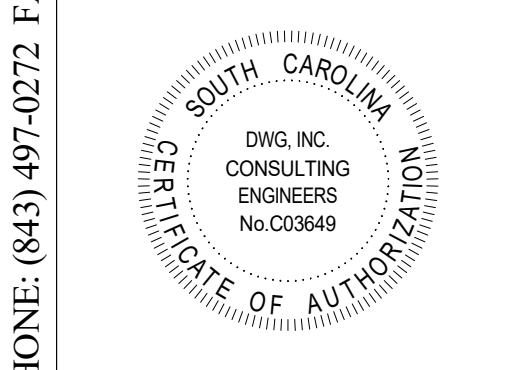
POWER AND TELECOMMUNICATIONS SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊕ ^x	SIMPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	▼	1-DROP COMMUNICATION OUTLET
⊕ ^x	GFCI SIMPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	▽	2-DROP COMMUNICATION OUTLET
⊕ ^x	DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	▽	4-DROP COMMUNICATION OUTLET
⊕ ^x	GFCI DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	▼	CEILING MOUNTED COMMUNICATION OUTLET (TYPICAL ALL TYPES)
⊕ ^x	QUADRUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	▼	FLOOR MOUNTED COMMUNICATION OUTLET (TYPICAL ALL TYPES)
⊕ ^x	GFCI QUADRUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE	▼	COMMUNICATION OUTLET (ROUGH-IN ONLY)
⊕ ^x	SPECIAL PURPOSE RECEPTACLE, SEE PLANS FOR NEMA CONFIGURATION AND CIRCUITING	▼	COMMUNICATION OUTLET (CEILING MOUNTED, ROUGH-IN ONLY)
⊕	CEILING MOUNTED RECEPTACLE (TYPICAL ALL TYPES)	▼	COMMUNICATION OUTLET (FLOOR MOUNTED, ROUGH-IN ONLY)
⊕	FLOOR MOUNTED RECEPTACLE (TYPICAL ALL TYPES)	TV	TELEVISION OUTLET (WALL MOUNTED) PROVIDE 1 DATA DROP AND 1 COAX
⊕ ^x	JUNCTION BOX (WALL MOUNTED) "X" INDICATES JUNCTION BOX TYPE	TV	TELEVISION OUTLET (WALL MOUNTED, ROUGH-IN ONLY)
⊕ ^x	JUNCTION BOX (CEILING MOUNTED) "X" INDICATES JUNCTION BOX TYPE	WF	WI-FI ACCESS POINT (CEILING MOUNTED)
⊕ ^x	JUNCTION BOX (FLOOR MOUNTED) "X" INDICATES JUNCTION BOX TYPE	WF	WI-FI ACCESS POINT (WALL MOUNTED)
§ ^x	CONTROL SWITCH, "X" INDICATES SWITCH TYPE	CBB	COMMUNICATIONS BACKBOARD
	MOTOR CONNECTION (AS NOTED)	Ⓢ	THERMOSTAT (WALL MOUNTED, ROUGH-IN ONLY)
	CABLE TRAY	Ⓢ	HUMIDISTAT (WALL MOUNTED, ROUGH-IN ONLY)
	PUSH BUTTON CONTROL	SPD	SURGE PROTECTION DEVICE
	DISCONNECT SWITCH (FUSIBLE OR NON-FUSIBLE)	GAP	GENERATOR ANNUNCIATOR PANEL
	ENCLOSED CIRCUIT BREAKER	HH	HAND HOLE
	KITCHEN EQUIPMENT CALLOUT (SEE SCHEDULE)	M	METER
	PANELBOARD - DISTRIBUTION, SURFACE MOUNTED		PANELBOARD - BRANCH, SURFACE MOUNTED
	PANELBOARD - DISTRIBUTION, FLUSH MOUNTED		PANELBOARD - BRANCH, FLUSH MOUNTED
	SWITCHBOARD	⊗	TRANSFORMER

SYSTEMS SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SD	SMOKE DETECTOR (CEILING MOUNTED)	TS	FIRE ALARM TAMPER SWITCH
SD	SMOKE DETECTOR (DUCT MOUNTED)	FS	FIRE ALARM FLOW SWITCH
MC	SMOKE & CARBON MONOXIDE COMBINATION DETECTOR (CEILING MOUNTED)	PS	FIRE ALARM PRESSURE SWITCH
CO	CARBON MONOXIDE DETECTOR (CEILING MOUNTED)	F	FIRE ALARM PULL STATION
HD	HEAT DETECTOR (CEILING MOUNTED)	▽	FIRE ALARM STROBE NOTIFICATION APPLIANCE (WALL MOUNTED)
	CONTROL PANEL, "X" INDICATES TYPE	▽	FIRE ALARM SPEAKER/STROBE NOTIFICATION APPLIANCE (WALL MOUNTED)
RFAP	REMOTE FIRE ALARM ANNUNCIATOR	▽	FIRE ALARM HORN/STROBE NOTIFICATION APPLIANCE (WALL MOUNTED)
AIM	ADDRESSABLE INPUT MODULE	▽	FIRE ALARM STROBE NOTIFICATION APPLIANCE (CEILING MOUNTED)
FSD	FIRE / SMOKE DAMPER	▽	FIRE ALARM HORN/STROBE NOTIFICATION APPLIANCE (CEILING MOUNTED)
Ⓢ	SPEAKER (CEILING MOUNTED)	▽	FIRE ALARM SPEAKER/STROBE NOTIFICATION APPLIANCE (CEILING MOUNTED)
Ⓢ	SPEAKER (WALL MOUNTED)	Ⓢ	FIRE ALARM BELL NOTIFICATION APPLIANCE (WALL MOUNTED)
▽	SECURITY CAMERA (CEILING MOUNTED)	CR	SECURITY CARD READER (ROUGH-IN ONLY)
▽	SECURITY CAMERA (WALL MOUNTED)	KP	SECURITY KEYPAD (ROUGH-IN ONLY)
E	ELECTRONIC DOOR STRIKE (ROUGH-IN ONLY)	D	DOOR POSITION SWITCH (ROUGH-IN ONLY)
M	MAGNETIC DOOR LOCK (ROUGH-IN ONLY)		



PIKE ■ McFARLAND ■ HALL ASSOCIATES, INC. ARCHITECTS & PLANNERS

DWG
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1009 Anna Knapp Blvd., Suite 200
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3/9/2023

PROJECT
HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN, SOUTH CAROLINA

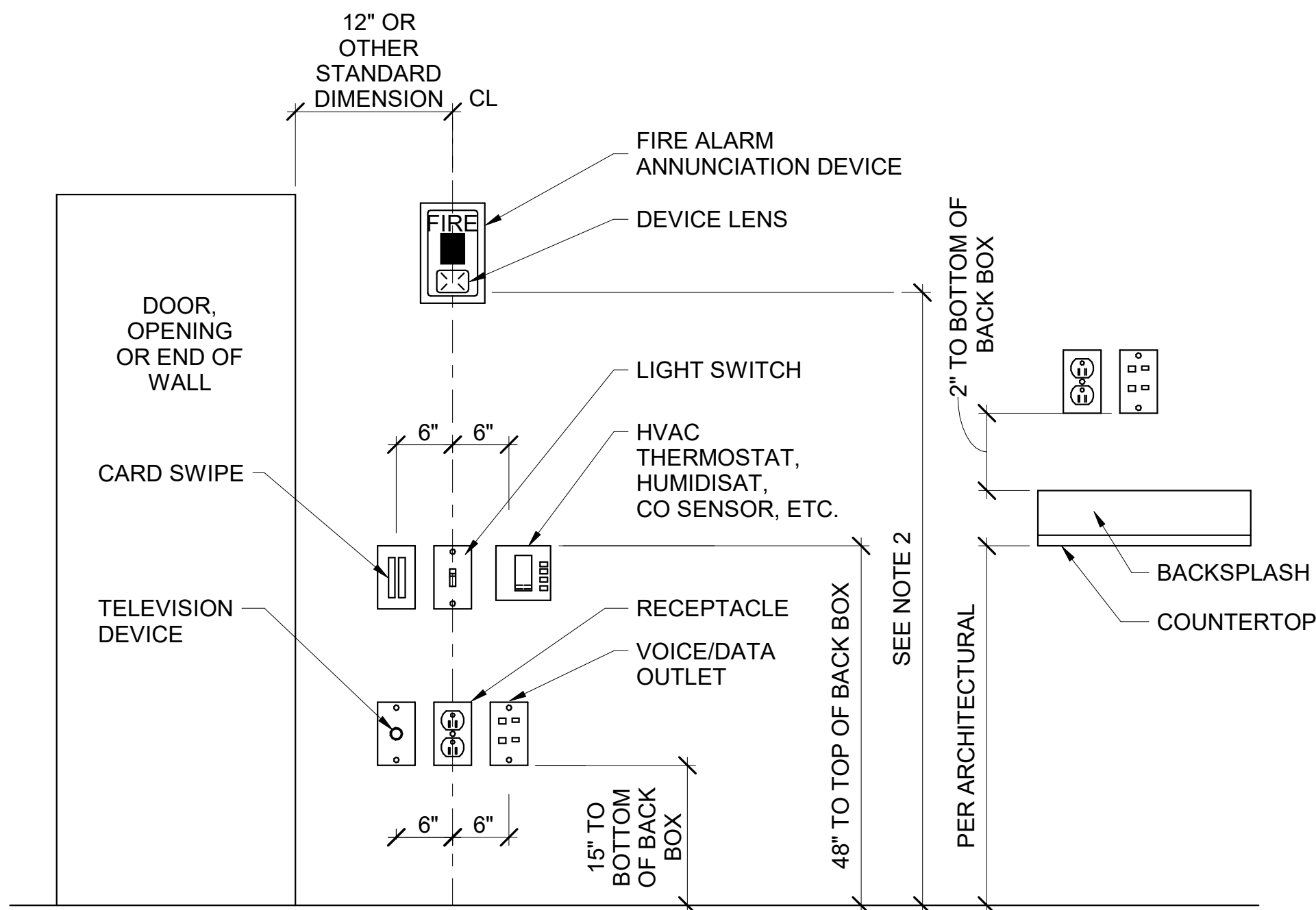
COMM: 23002
OSE: BLDG. 100: H59-N220-CB
BLDG. 500: H59-N221-CB
FILE: 23004-00
DRAWN BY: EMB
PLOT:
DATE: 03/09/23
REV:

SHEET

E002

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NOTE 1:
DEVICES SHOWN WITHIN 48" OF EACH OTHER ON ALL ELECTRICAL PLANS SHALL BE ALIGNED PER THIS DETAIL. IF DEVICES ARE SHOWN IN MIDDLE OF WALL, THEN CENTER DEVICES ON WALL.

NOTE 2:
MOUNT 80" ABOVE FINISHED FLOOR WHERE POSSIBLE. WHERE CEILING HEIGHTS DO NOT ALLOW THIS HEIGHT, MOUNT 6" BELOW CEILING. WHERE OBSTRUCTIONS DO NOT ALLOW THIS HEIGHT, MOUNT 80" TO 96" ABOVE FINISHED FLOOR. ALL MOUNTING HEIGHTS FOR NOTIFICATION DEVICES SHALL BE MEASURED TO THE BOTTOM OF THE LENS.

1
E003 **DEVICE ALIGNMENT DETAIL**
SCALE: N.T.S.

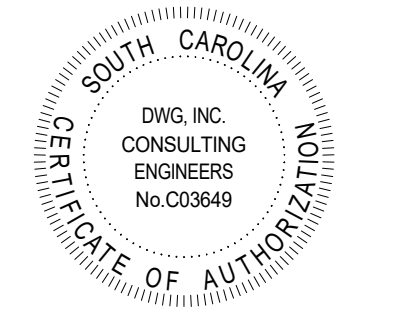
EQUIPMENT CONNECTION SCHEDULE						
UNIT I.D.	VOLTS	# OF POLES	LOAD (VA)	BRANCH CIRCUIT WIRING	DISCONNECT / STARTER	
FANS						
EF-1	120 V	1	1656	2#12, 1#12G, 3/4"C	MOTOR-RATED TOGGLE SWITCH	
EF-2	120 V	1	1656	2#12, 1#12G, 3/4"C	MOTOR-RATED TOGGLE SWITCH	
EF-3	120 V	1	1656	2#12, 1#12G, 3/4"C	MOTOR-RATED TOGGLE SWITCH	
LAB AIR HANDLER						
AHU-1	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-2	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-3	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-4	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-5	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-6	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-7	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-8	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-9	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-10	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-11	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-12	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-13	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-14	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-15	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-16	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-17	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-18	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-19	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-20	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-21	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-22	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-23	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-24	208 V	2	4992	2#10, 1#12G, 3/4"C	30A/2/TYP 1	
AHU-25	120 V	1	2400	2#10, 1#12G, 3/4"C	20A/1/TYP 1	
AHU-26	120 V	1	2400	2#10, 1#12G, 3/4"C	20A/1/TYP 1	
AHU-27	120 V	1	2400	2#10, 1#12G, 3/4"C	20A/1/TYP 1	
AHU-28	120 V	1	2400	2#10, 1#12G, 3/4"C	20A/1/TYP 1	
AHU-29	120 V	1	2400	2#10, 1#12G, 3/4"C	20A/1/TYP 1	
AHU-30	120 V	1	2400	2#10, 1#12G, 3/4"C	20A/1/TYP 1	
AHU-31	120 V	1	2400	2#10, 1#12G, 3/4"C	20A/1/TYP 1	
AHU-32	120 V	1	2400	2#10, 1#12G, 3/4"C	20A/1/TYP 1	
LAB CONDENSING UNIT						
CU-1	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-2	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-3	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-4	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-5	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-6	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-7	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-8	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-9	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-10	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-11	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-12	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-13	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-14	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-15	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	
CU-16	208 V	2	2933	2#12, 1#12G, 3/4"C	20A/2/TYP 1	

EQUIPMENT CONNECTION SCHEDULE NOTES:

- DISCONNECT SWITCHES SHALL BE MOUNTED TO RESPECTIVE UNIT. EACH CIRCUIT SHALL BE RUN IN ELECTRO-METAL TUBING FROM PANEL TO JUNCTION BOX IN CEILING ABOVE UNIT VIA SO CORD DROP FROM JUNCTION BOX TO UNIT DISCONNECT.

FIXTURE SPECIFICATIONS					LAMPING				ELECTRICAL		FIXTURE MOUNTING
TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CAT. #	NO.	LAMP TYPE	TOTAL LUMENS	COLOR TEMP.	LOAD (VA)	VOLTS		
A	HIGHBAY LED	LITHONIA	IBE 22LM MVOLT 40K	18	LED	21,067	4000 K	166	120 V	SUSPENDED CABLE	
AE	HIGHBAY LED	LITHONIA	IBE 22LM MVOLT 40K	18	LED	21,067	4000 K	166	120 V	SUSPENDED CABLE	
EM1	EMERGENCY LIGHT	LITHONIA	EU2C	3	LED	NA	NA	2	120 V	WALL	
J1	4" STRIP	LITHONIA	00193048852622 4	2	LED	4298	4000 K	35	120 V	CEILING	
X2	EXIT SIGN, DUAL FACE	COMPASS	CER	1	LED	NA	NA	2	120 V	CEILING	
X3	EXIT SIGN, SINGLE FACE	COMPASS	CER	1	LED	NA	NA	2	120 V	WALL	

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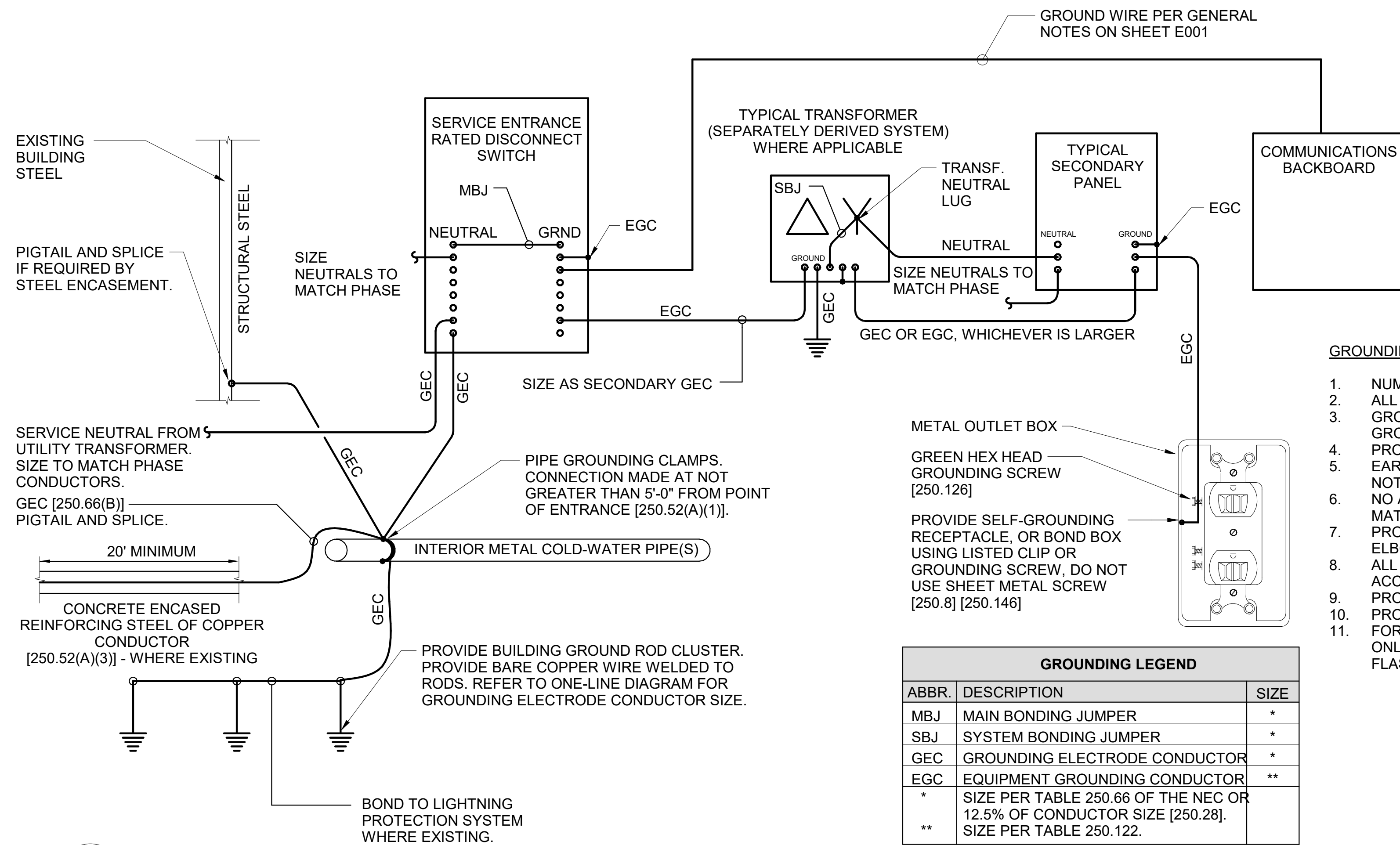


PROJECT
HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
 GEORGETOWN, SOUTH CAROLINA

COMM: 23002
 OSE:
 BLDG. 100: H59-N220-CB
 BLDG. 500: H59-N221-CB
 FILE: 23004-00
 DRAWN BY: EMB
 PLOT:
 DATE: 03/09/23
 REV:

SHEET
E003

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GROUNDING NOTES:

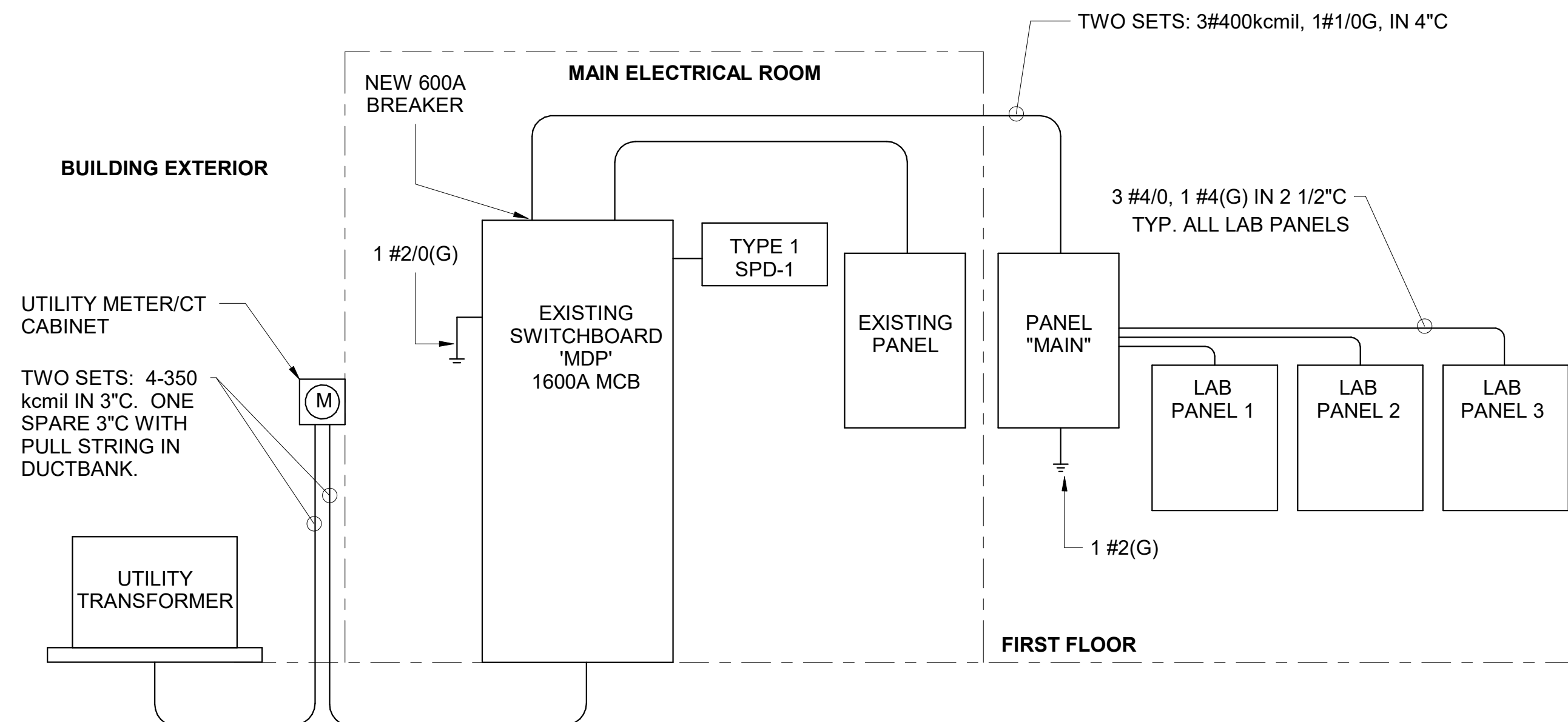
1. NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
2. ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
3. GROUND ELECTRODE FOR SEPARATELY DERIVED SYSTEMS SHALL BE THE NEAREST METAL WATER PIPE OR STRUCTURAL METAL. IF EITHER IS NOT AVAILABLE, PROVIDE GROUNDING CONDUCTOR BACK TO MAIN GROUND BUS AT SERVICE ENTRANCE.
4. PROVIDE A GROUND WIRE IN ALL CONDUITS.
5. EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT. OTHERWISE OVERCURRENT PROTECTION MIGHT NOT WORK, OR IT MIGHT CAUSE POWER QUALITY PROBLEMS.
6. NO ALUMINIUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINIUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINIUM EQUIPMENT WITH ALUMINIUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
7. PROVIDE GROUNDING BUSHING ON BOTH ENDS OF ALL SERVICE ENTRANCE RACEWAYS IF METAL RACEWAY IS USED, SIZE AS A GEC [250.80]. THIS INCLUDES RIGID STEEL ELBOWS ON PVC CONDUIT.
8. ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97], STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
9. PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148].
10. PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].
11. FOR LIGHTNING PROTECTION SYSTEM, PROVIDE LIGHTNING PROTECTION GROUND RODS LOOPED TOGETHER WITH COPPER CABLE, OTHERWISE BONDING CONDUCTOR WILL ONLY CONNECT TO ONE DOWN CONDUCTOR ROD. VERIFY THAT LIGHTNING PROTECTION DOWN CONDUCTORS ARE BONDED TO LOCAL GROUND METAL TO PREVENT FLASHOVER.

GROUNDING LEGEND		
ABBR.	DESCRIPTION	SIZE
MBJ	MAIN BONDING JUMPER	*
SBJ	SYSTEM BONDING JUMPER	*
GEC	GROUNDING ELECTRODE CONDUCTOR	*
EGC	EQUIPMENT GROUNDING CONDUCTOR	**
*	SIZE PER TABLE 250.66 OF THE NEC OR 12.5% OF CONDUCTOR SIZE [250.28].	
**	SIZE PER TABLE 250.122.	

1 GROUNDING DETAIL
E010 NOT TO SCALE

ELECTRICAL SERVICE GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE INSTALLATION OF METER ON BUILDING WITH UTILITY COMPANY. CONTRACTOR SHALL INSTALL PER REQUIREMENTS OF UTILITY COMPANY.
2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED ELECTRICAL COMPONENTS TO MAKE UTILITY CONNECTION IN ACCORDANCE WITH UTILITY COMPANY'S REQUIREMENTS. UTILITY COMPANY SHALL INSPECT WORK PRIOR TO PROVIDING CONNECTION TO UTILITY SERVICE TRANSFORMER.
3. SERVICE DISCONNECTS SHALL BE PROPERLY LABELED IN ACCORDANCE WITH UTILITY REQUIREMENTS. UTILITY COMPANY SHALL NOT PROVIDE CONNECTION TO SERVICES WITHOUT PROPER IDENTIFICATION.
4. PROVIDE NEW 600A, 3 POLE BREAKER IN AVAILABLE SPACE ON EXISTING SWITCHBOARD. BREAKER SHALL BE ABB XT5 600 AMP. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS REQUIRED TO ADD BREAKER TO EXISTING SWITCHBOARD.

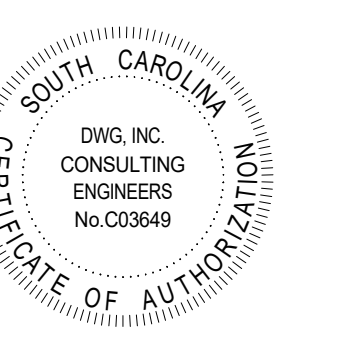


2 ONE-LINE DIAGRAM
E010 NOT TO SCALE

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PIKE ■ McFARLAND ■ HALL ASSOCIATES, INC.
ARCHITECTS & PLANNERS



PROJECT

HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN, SOUTH CAROLINA

COMM: 23002
OSE:
BLDG. 100: H59-N220-CB
BLDG. 500: H59-N221-CB
FILE: 23004-00
DRAWN BY: EMB
PLOT:
DATE: 03/09/23
REV:

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E010

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LAB DISTRIBUTION PANEL SCHEDULE											
PANEL NAME: LDP			VOLTS: 120/208 Wye			A.I.C. RATING: 33000					
LOCATION: HVAC LAB 100			PHASES: 3			MAINS RATING: 600 A					
SUPPLY FROM: MAIN ELECTRIC ROOM			WIRES: 4			MAINS TYPE: MAIN CIRCUIT BREAKER					
MOUNTING: SURFACE			ENCLOSURE: TYPE 1								
CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.	
1				22410 VA / 720 VA			1	20 A	RCPT - CANOPY	2	
3	LAB PANEL 1	225 A	3		24550 VA / 0 VA		1	20 A	SPARE	4	
5						19560 VA / 0 VA	1	20 A	SPARE	6	
7	SPARE	20 A	1	0 VA / 22410 VA			3	225 A	LAB PANEL 2	8	
9	SPARE	20 A	1		0 VA / 24550 VA					10	
11	SPARE	20 A	1			0 VA / 19560 VA				12	
13				21340 VA / 0 VA			1	20 A	SPARE	14	
15	LAB PANEL 3	225 A	3		21150 VA / 0 VA		1	20 A	SPARE	16	
17						19780 VA / 210 VA	1	20 A	LTG - CANOPY	18	
TOTAL PHASE LOAD:				66760 VA	70243	59060					
TOTAL PHASE CURRENT:				566 A	595 A	492 A					
PANEL TOTALS											
TOTAL ADDITIONAL LOAD:				196040 VA							
TOTAL ADDITIONAL CURRENT:				544 A							

LAB PANEL SCHEDULE											
PANEL NAME: LP1			VOLTS: 120/208 Wye			A.I.C. RATING: 22000					
LOCATION: HVAC LAB 100			PHASES: 3			MAINS RATING: 225 A					
SOURCE: LDP			WIRES: 4			MAINS TYPE: MAIN LUGS ONLY					
MOUNTING: SURFACE			ENCLOSURE: TYPE 1								
CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.	
1	TEST RECEPTACLE 1	20 A	1	480 VA / 480 VA			1	20 A	TEST RECEPTACLE 2	2	
3	CONDENSOR 1	20 A	2		1470 VA / 1470 VA		2	20 A	CONDENSOR 2	4	
5						1470 VA / 1470 VA				6	
7	AIR-HANDLER 1	30 A	2	2500 VA / 2500 VA			2	30 A	AIR-HANDLING UNIT 2	8	
9					2500 VA / 2500 VA					10	
11	TEST RECEPTACLE 3	20 A	1			480 VA / 480 VA	1	20 A	TEST RECEPTACLE 4	12	
13	CONDENSOR 3	20 A	2	1470 VA / 1470 VA			2	20 A	CONDENSOR 4	14	
15					1470 VA / 1470 VA					16	
17	AIR-HANDLER 3	30 A	2			2500 VA / 2500 VA	2	30 A	AIR-HANDLER 4	18	
19										20	
21	TEST RECEPTACLE 5	20 A	1		480 VA / 480 VA		1	20 A	TEST RECEPTACLE 6	22	
23	CONDENSOR 5	20 A	2			1470 VA / 1470 VA	2	20 A	CONDENSOR 6	24	
25										26	
27	AIR-HANDLER 5	30 A	2			2500 VA / 2500 VA	2	30 A	AIR-HANDLER 6	28	
29										30	
31	TEST RECEPTACLE 7	20 A	1	480 VA / 480 VA			1	20 A	TEST RECEPTACLE 8	32	
33	CONDENSOR 7	20 A	2			1470 VA / 1470 VA	2	30 A	CONDENSOR 8	34	
35						1470 VA / 1470 VA				36	
37	AIR-HANDLER 7	20 A	2	2500 VA / 2500 VA			2	30 A	AIR-HANDLER 8	38	
39					2500 VA / 2500 VA					40	
TOTAL PHASE LOAD:				22410 VA	24549	19559					
TOTAL PHASE CURRENT:				190 A	208 A	163 A					
PANEL TOTALS											
TOTAL CONNECTED LOAD:				66510 VA							
TOTAL CONNECTED CURRENT:				185 A							

NOTES:
 AIR HANDLERS: 208V, 2Ø. SHALL HAVE 2#10, 2#12G, 3/4" C AND 30AMP DISCONNECT WITH TYPE 1 ENCLOSURE
 COMPRESSORS: 208V, 2Ø. SHALL HAVE 2#10, 2#12G, 3/4" C AND 20AMP DISCONNECT WITH TYPE 1 ENCLOSURE
 SCHEDULE IS EQUIVALENT FOR LP2. NUMBER UNITS IN FOLLOWING NUMBERING SEQUENCE OUTLINED BY THIS SCHEDULE.

PANELBOARD SCHEDULE											
PANEL NAME: LP3			VOLTS: 120/208 Wye			A.I.C. RATING: 22000					
1 HVAC LAB 100			PHASES: 3			MAINS RATING: 225 A					
SOURCE: LDP			WIRES: 4			MAINS TYPE: MAIN CIRCUIT BREAKER					
MOUNTING: SURFACE			ENCLOSURE: TYPE 1								
CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.	
1	RCPT - POWER TOOLS	20 A	1	960 VA / 960 VA			1	20 A	RCPT - POWER TOOLS	2	
3	RCPT - POWER TOOLS	20 A	1		960 VA / 960 VA		1	20 A	RCPT - POWER TOOLS	4	
5	LAB AIR HANDLER 17	30 A	2			2500 VA / 2500 VA	2	30 A	LAB AIR HANDLER 18	6	
7										8	
9	LAB AIR HANDLER 19	30 A	2		2500 VA / 2500 VA		2	30 A	LAB AIR HANDLER 20	10	
11						2500 VA / 2500 VA				12	
13	LAB AIR HANDLER 21	30 A	2	2500 VA / 2500 VA			2	30 A	LAB AIR HANDLER 22	14	
15					2500 VA / 2500 VA					16	
17	LAB AIR HANDLER 23	30 A	2			2500 VA / 2500 VA	2	30 A	LAB AIR HANDLER 24	18	
19										20	
21	LAB AIR HANDLER 25	20 A	1		2400 VA / 2400 VA		1	20 A	LAB AIR HANDLER 26	22	
23	LAB AIR HANDLER 27	20 A	1			2400 VA / 2400 VA	1	20 A	LAB AIR HANDLER 28	24	
25	LAB AIR HANDLER 29	20 A	1	2400 VA / 2400 VA			1	20 A	LAB AIR HANDLER 30	26	
27	LAB AIR HANDLER 31	20 A	1		2400 VA / 2400 VA		1	20 A	LAB AIR HANDLER 32	28	
TOTAL PHASE LOAD:				21340 VA	21151	19776					
TOTAL PHASE CURRENT:				180 A	178 A	165 A					
PANEL TOTALS											
TOTAL CONNECTED LOAD:				62251							
TOTAL CONNECTED CURRENT:				173 A							

EXISTING PANELBOARD SCHEDULE											
PANEL NAME: (E) M			VOLTS: 120/208 Wye			A.I.C. RATING: EXISTING					
LOCATION: EXIST. STORAGE 110			PHASES: 3			MAINS RATING: 400 A					
SUPPLY FROM:			WIRES: 4			MAINS TYPE: MAIN CIRCUIT BREAKER					
MOUNTING: SURFACE			ENCLOSURE: TYPE 1								
CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.	
1	(E) AIR HANDLER 1	25 A	2	0 VA / 0 VA			2	30 A	(E) HEAT PUMP 1	2	
3					0 VA / 0 VA		2	30 A	(E) HEAT PUMP 2	4	
5	(E) AIR HANDLER 2	25 A	2			0 VA / 0 VA	2	30 A	(E) HEAT PUMP 3	6	
7										8	
9	(E) AIR HANDLER 3	25 A	2			0 VA / 0 VA	2	30 A	(E) HEAT PUMP 4	10	
11										12	
13	(E) AIR HANDLER 4	20 A	2	0 VA / 0 VA			2	30 A	(E) HEAT PUMP 5	14	
15										16	
17	(E) AIR HANDLER 5	25 A	2			0 VA / 0 VA	2	20 A	(E) HEAT PUMP 6	18	
19										20	
21	(E) AIR HANDLER 6	25 A	2			0 VA / 0 VA	2	30 A	(E) HEAT PUMP 7	22	
23										24	
25										26	
27	(E) EXHAUST FAN & VENTS	15 A	3			0 VA / 0 VA	2	30 A	(E) HOT WATER HEATER	28	
29						0 VA / 0 VA	1	20 A	(E) SUMP PUMP	30	
31	(E) IRRIGATION	20 A	1	0 VA / 0 VA			3	40 A	(E) HEATER FAN	32	
33										34	
35	(E) PANEL B	100 A	3			0 VA / 0 VA	2	20 A	(E) LIFT STATION	36	
37										38	
39	HVAC	20 A	1		250 VA / 0 VA		1	--	PREPARED SPACE	40	
41						0 VA / 0 VA				42	
43				720 VA / 0 VA			3	200 A	(E) MAIN BREAKER M	44	
45	(E) PANEL A	225 A	3		1000 VA / 0 VA					46	
47						3310 VA / 0 VA				48	
TOTAL PHASE LOAD:				720 VA	1247	3306					
TOTAL PHASE CURRENT:				6 A	11 A	28 A					
PANEL TOTALS											
TOTAL ADDITIONAL LOAD:				5270 VA							
TOTAL ADDITIONAL CURRENT:				15 A							

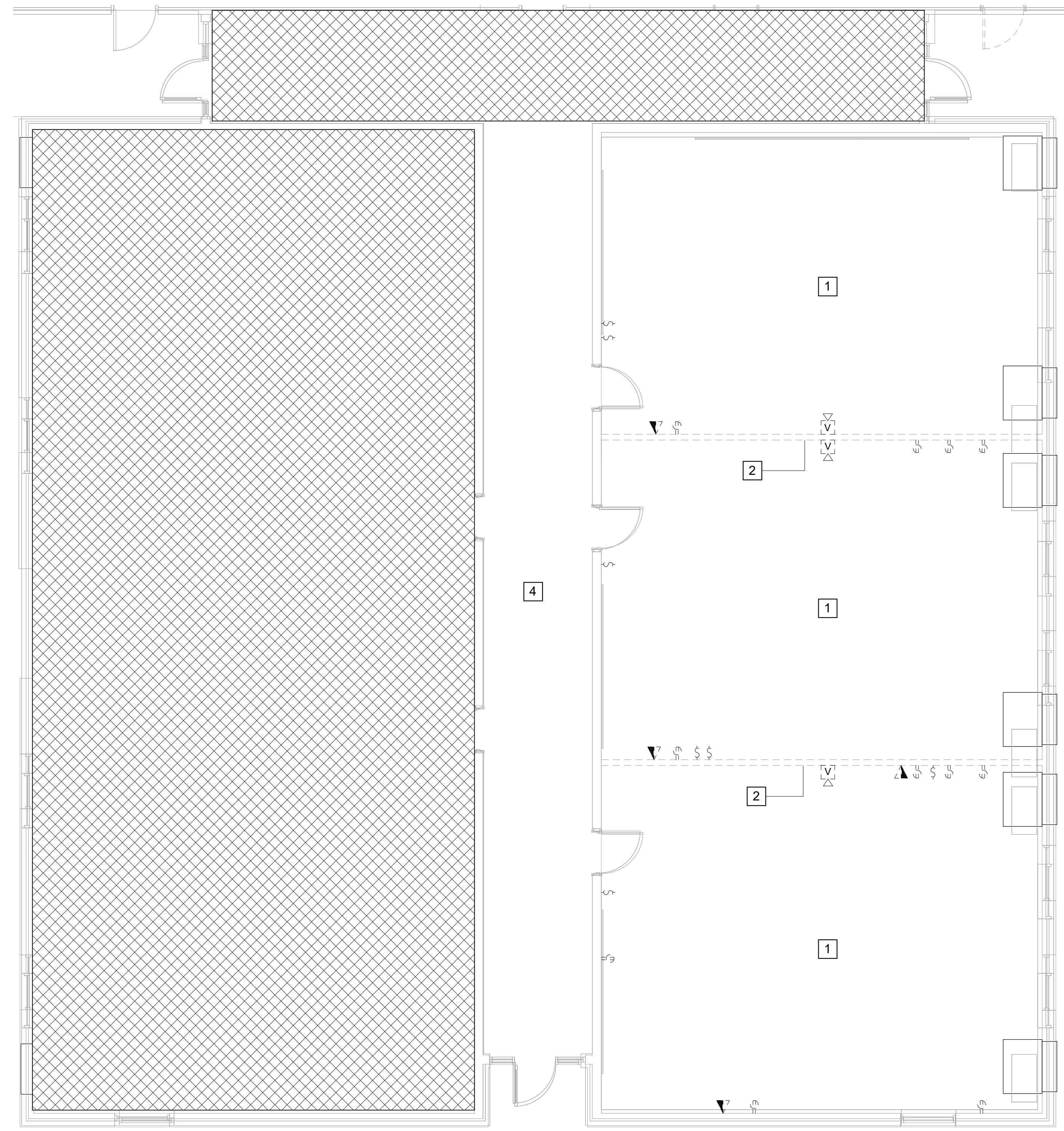
NOTE:
 REMOVE EXISTING CIRCUIT BREAKERS SERVICE HEAT PUMPS AFTER DISCONNECT AND REPLACE WITH 20A/1P BREAKERS. NEW BREAKERS SHALL MATCH PANEL MANUFACTURER, STYLE, AND AIC RATING.

EXISTING PANELBOARD SCHEDULE											
PANEL NAME: (E) A			VOLTS: 120/208 Wye			A.I.C. RATING: EXISTING					
LOCATION: EXIST. STORAGE 110 BLDG 500			PHASES: 3			MAINS RATING: 225 A					
SOURCE: (E) M			WIRES: 4			MAINS TYPE: MAIN LUGS ONLY					
MOUNTING: SURFACE			ENCLOSURE: TYPE 1								
CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.	
1	RCPT - OFFICE 102 (E)	20 A	1	0 VA / 0 VA			1	20 A	RCPT - TELEPHONE	2	
3	RCPT - OFFICE 103	20 A	1		0 VA / 0 VA		1	20 A	RCPT - DATA	4	
5	RCPT - CLASSROOM 107	20 A	1			0 VA / 0 VA	1	20 A	RCPT - OUTSIDE	6	
7	RCPT - COMPUTER 104	20 A	1	0 VA / 0 VA			1	20 A	RCPT CLASSROOM 112	8	
9	RCPT - COMPUTER 104	20 A	1		0 VA / 0 VA		1	20 A	ELECT ROOM VENT FAN / AC DRAIN	10	
11	RCPT - COMPUTER 104	20 A	1			0 VA / 720 VA	1	20 A	RCPT - 1/2 OUTBOARD CLNG*	12	
13	RCPT - COMPUTER 104	20 A	1	0 VA / 720 VA			1	20 A	RCPT - 1/2 OUTBOARD CLNG*	14	
15	RCPT - COMPUTER 104	20 A	1		0 VA / 1000 VA		1	20 A	LTG - OUTBOARD LAB*	16	
17	RCPT - COMPUTER 104	20 A	1			0 VA / 1000 VA	1	20 A	LTG - OUTBOARD LAB*	18	
19	RCPT - CLASSROOM 108	20 A	1	0 VA / 0 VA			1	20 A	LTG - OFFICE / CLASS / COMP.	20	
21	RCPT - SHOP 111	20 A	1		0 VA / 0 VA		1	20 A	LTG - CLAS / BREAK / ELECT.	22	
23	RCPT - SHOP 111	20 A	1			0 VA / 120 VA	1	20 A	LTG - CORR / RESTROOMS	24	
25	RCPT CORR/EXT.	20 A	1	0 VA / 0 VA			1	20 A	LTG - SHOP 111	26	
27	EWC	20 A	1		0 VA / 0 VA		1	20 A	LTG - CLASSROOM 112	28	
29	RCPT - TLT/BRK/EXT/ELE	20 A	1			0 VA / 0 VA	1	20 A	LTG - CLASSROOM 112	30	
31	RCPT - BREAK, APPLIANCE	20 A	1	0 VA / 0 VA			1	20 A	LTG - EXTERIOR	32	
33	RCPT - BREAK, APPLIANCE	20 A	1		0 VA / 0 VA		1	20 A	LTG - CONTRACTOR	34	
35	RCPT - BREAK, UC REF	20 A	1			0 VA / 0 VA	1	20 A	SPARE (HVAC LAB)	36	
37	RCPT - BREAK, FUTURE ICE	20 A	1	0 VA / 0 VA			1	20 A	SPARE (HVAC LAB)	38	
39	RCPT - BREAK/CLASS	20 A	1			0 VA / 0 VA	1	20 A	SPARE (HVAC LAB)	40	
41	LTG - CANOPY / SHED	20 A	1			390 VA / 1080 VA	1	20 A	RCPT - CANOPY / SHED	42	
TOTAL PHASE LOAD:				720 VA	998	3306					
TOTAL PHASE CURRENT:				6 A	9 A	28 A					
PANEL TOTALS											
TOTAL ADDITIONAL LOAD:				5020 VA							
TOTAL ADDITIONAL CURRENT:				14 A							

(*) DENOTES NEW LOAD ON EXISTING SPARE BREAKER.

EXISTING PANELBOARD SCHEDULE										
PANEL NAME: (E)			VOLTS: 120/208 Wye			A.I.C. RATING: EXISTING				
LOCATION: ELECTRICAL ROOM, BLDG 100			PHASES: 3			MAINS RATING: 225 A				
SUPPLY FROM: MDP			WIRES: 4			MAINS TYPE: MAIN CIRCUIT BREAKER				
MOUNTING: SURFACE			ENCLOSURE: TYPE 1							
CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	RCPT - HVAC LAB									

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1 BUILDING 100 DEMOLITION PLAN
ED101 SCALE: 3/16" = 1'-0"

LINE LEGEND	
SYMBOL	DESCRIPTION
—	EXISTING TO REMAIN
—	NEW CONSTRUCTION
- - -	DEMOLISH

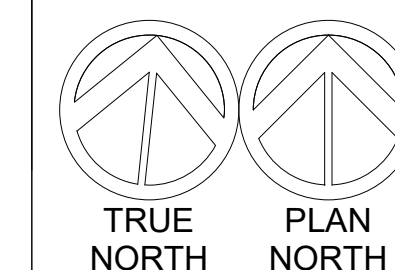
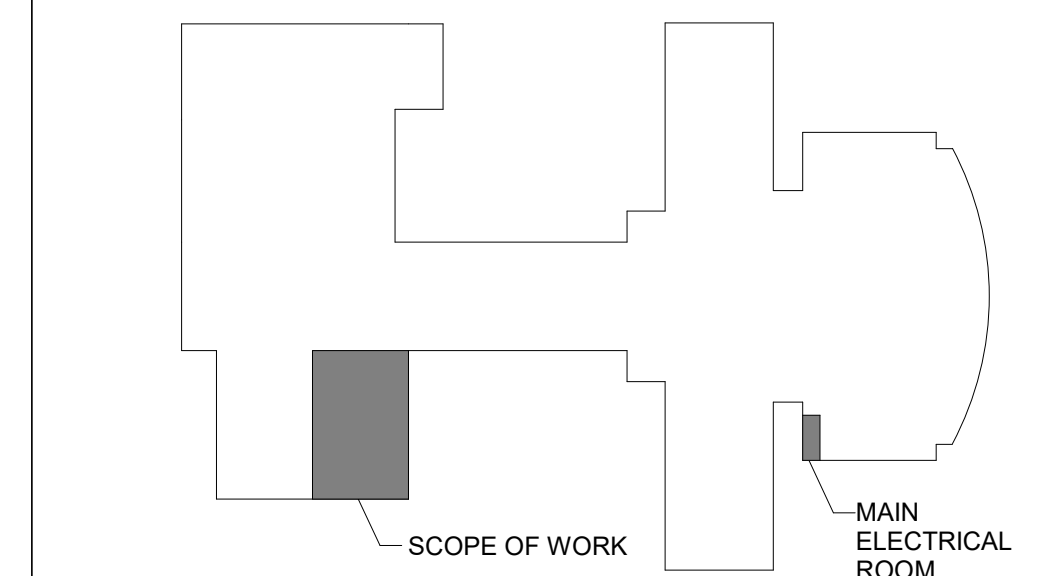
DEMOLITION KEYNOTES

- 1 LIGHT FIXTURES IN THIS AREA IS TO REMAIN IN EXISTING POSITION OF ORIGINAL CEILING.
- 2 PRIOR TO DEMOLITION OF WALL, CONTRACTOR SHALL TRACE AND IDENTIFY ALL BRANCH CIRCUITS SERVING LIGHTING AND RECEPTACLE CIRCUITS TO BE REMOVED. CIRCUITS SHALL BE REMOVED BACK TO RESPECTIVE PANEL TO BE USED FOR NEW DEVICES IN MARINE LAB.
- 3 ALL LIGHTING, LIGHTING CONTROLS, AND SYSTEMS SHALL BE DEMOLISHED BACK TO PANEL IN THIS AREA. POWER AND DATA DEVICES SHALL REMAIN IN PLACE.
- 4 ALL LIGHTING, LIGHTING CONTROLS, DEVICES, AND SYSTEMS SHALL BE PRESERVED IN THIS AREA.
- 5 DEMOLISH POWER IN PARTIAL WALL. TURN OVER DEVICES TO OWNER.

GENERAL NOTES

1. TURN OVER ALL EXISTING ELECTRICAL COMPONENTS TO OWNER

BUILDING 100 KEYPLAN

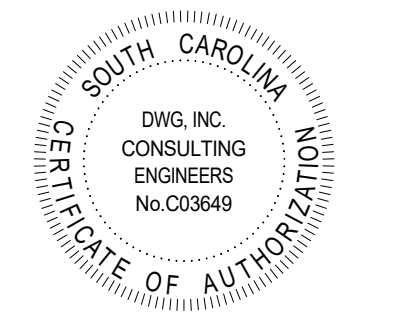


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PROJECT

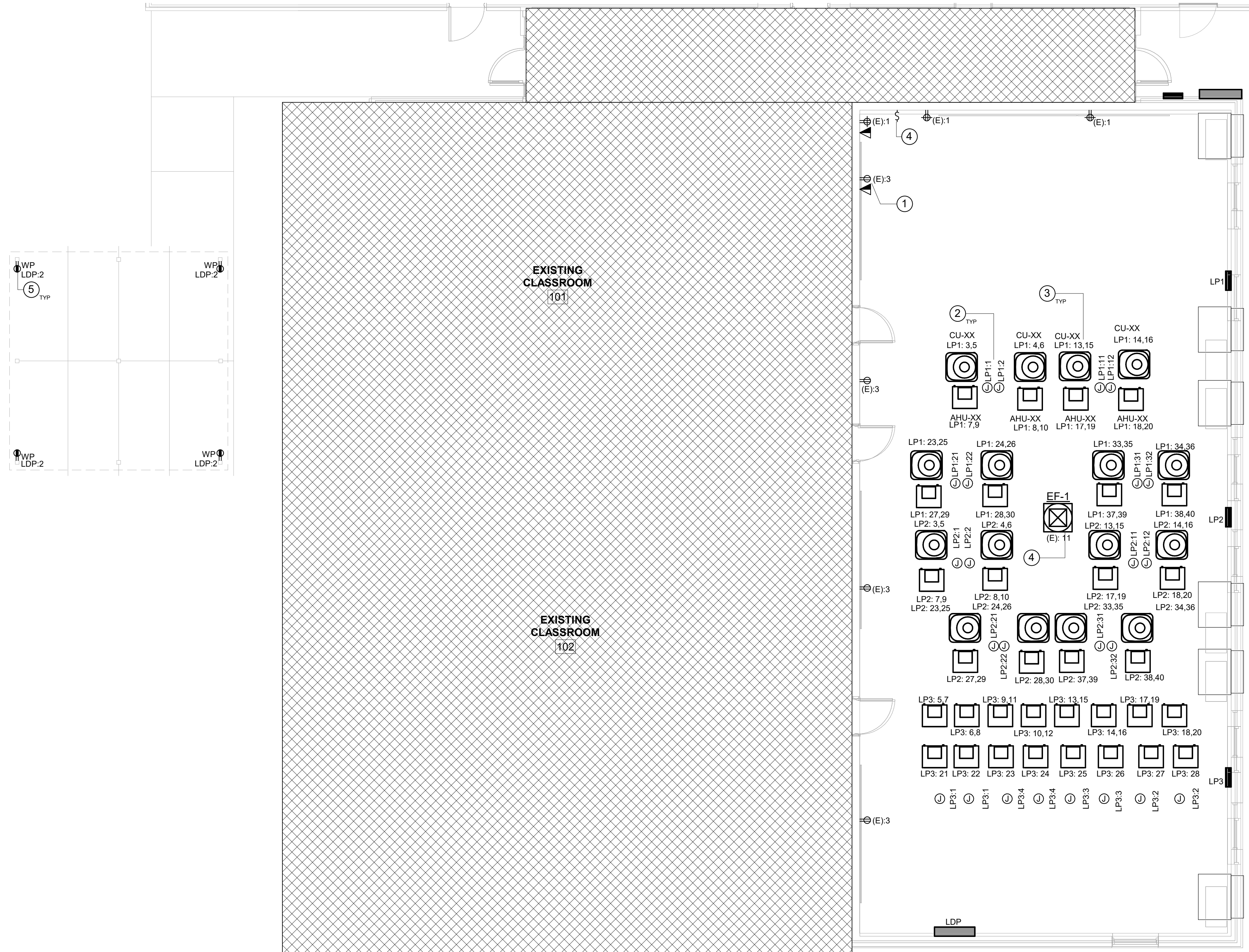
HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN, SOUTH CAROLINA

COMM: 23002
OSE: BLDG. 100: H59-N220-CB
FILE: 23004-00
DRAWN BY: EMB
DATE: 03/09/23
REV:

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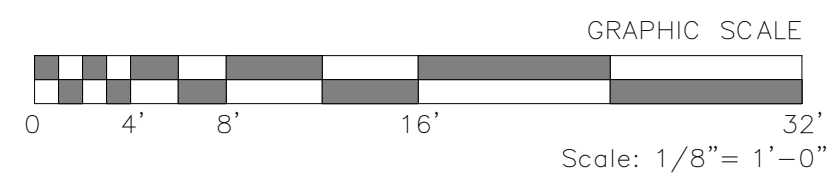
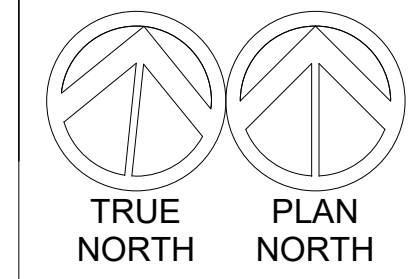
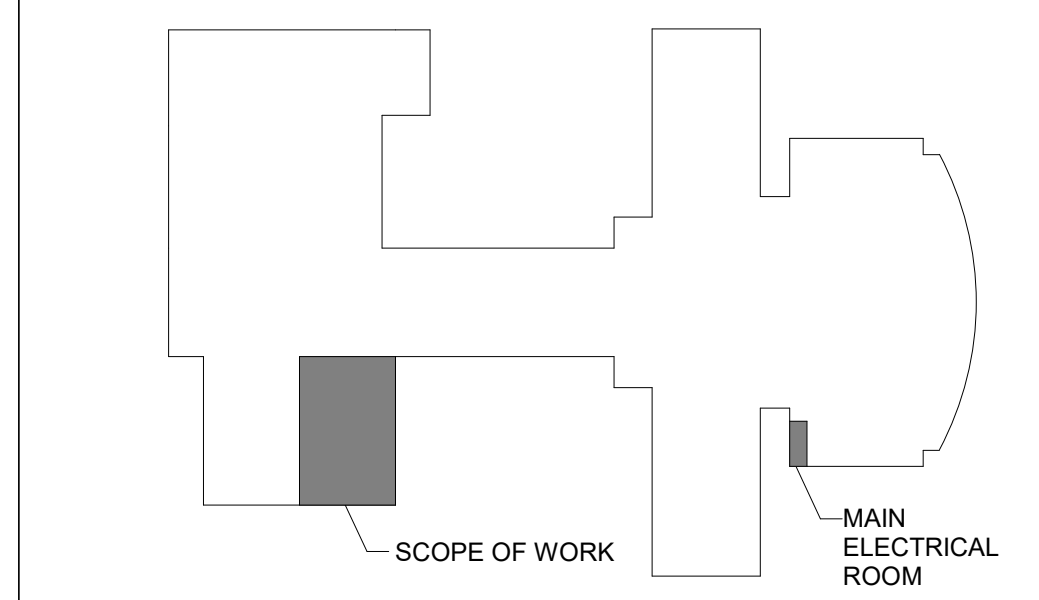
1 BUILDING 100 POWER & TELECOM PLAN
 E101 SCALE: 3/16" = 1'-0"

RENOVATION KEYNOTES

- ① POWER AND DATA TO SERVE SMARTBOARD CONNECTION THROUGH SURFACE RACEWAY. COORDINATE MOUNTING POSITIONS WITH OWNER.
- ② PROVIDE CEILING MOUNTED SO CORD DROP WITH DUPLEX RECEPTACLE. SUPPORT JUNCTION BOX TO BUILDING STRUCTURE ABOVE LAY-IN CEILING. RECEPTACLE SHALL HANG, 48" AFF.
- ③ COORDINATE HARD-WIRED CONNECTION INTO PROVIDED EQUIPMENT DISCONNECT WITH OWNER
- ④ EXHAUST FAN SHALL BE CONTROLLED BY DEDICATED SWITCH.
- ⑤ CIRCUITS FOR RECEPTACLE SHALL BE ROUTED UNDERGROUND.

GENERAL NOTES

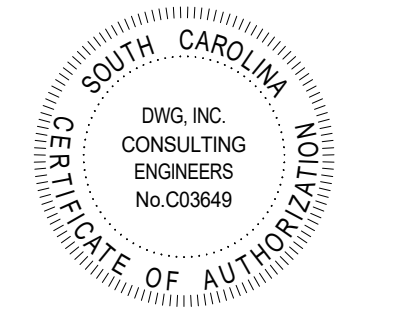
BUILDING 100 KEYPLAN



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PROJECT

HORRY-GEORGETOWN TECHNICAL COLLEGE
 RENOVATIONS TO:
BUILDING 100 & BUILDING 500
 GEORGETOWN, SOUTH CAROLINA

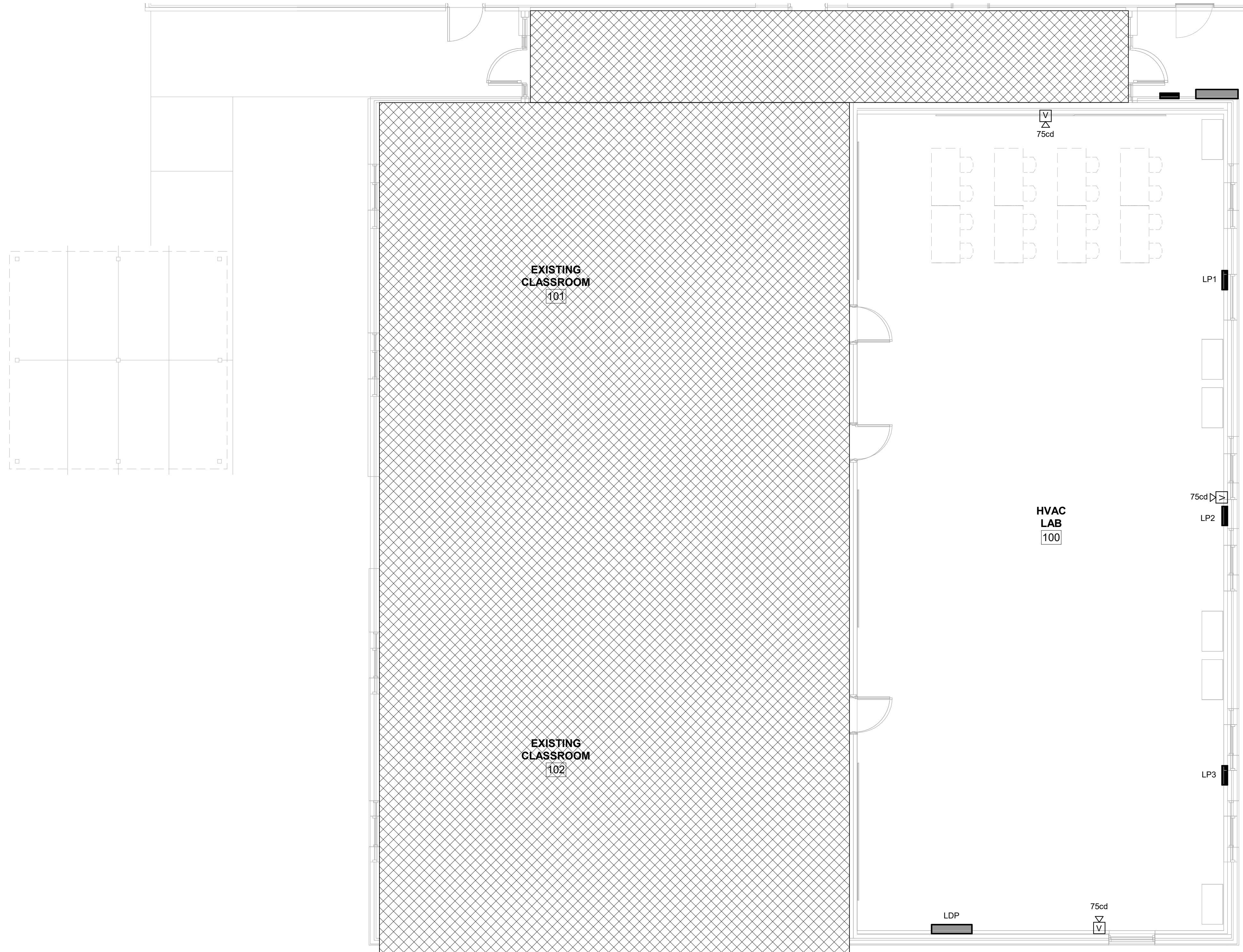
COMM: 23002
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 BLDG. 100: H59-N220-CB
 FILE: 23004-00
 DRAWN BY: EMB
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1 BUILDING 100 SYSTEMS PLAN
E103 SCALE: 3/16" = 1'-0"

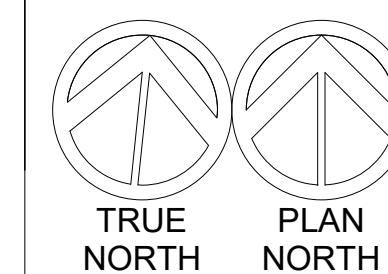
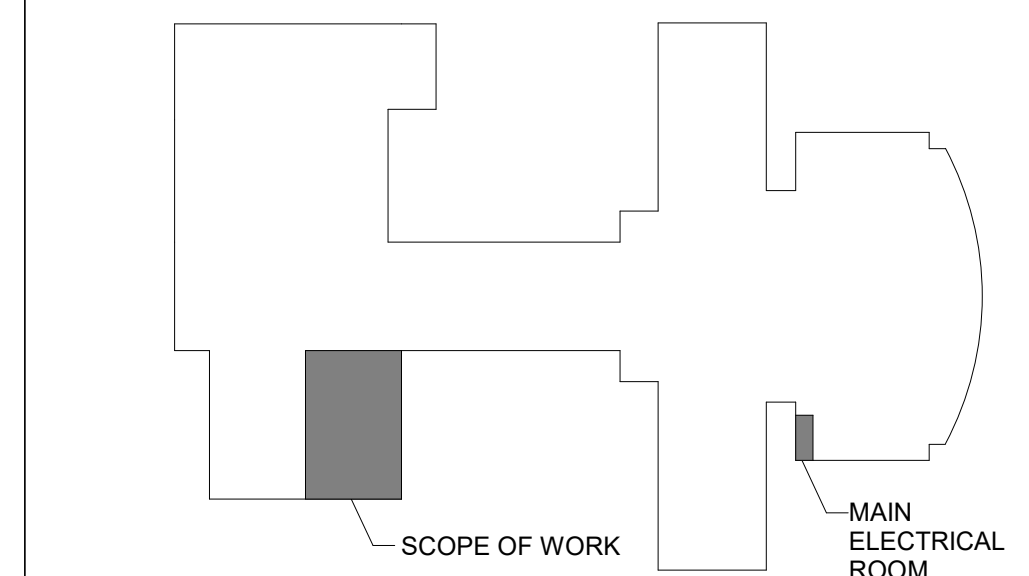


RENOVATION KEYNOTES

GENERAL NOTES

- 1. ALL FIRE ALARM WORK SHALL BE PERFORMED BY THE LOCAL VENDOR WHO CURRENTLY HOLDS THE SERVICE AGREEMENT WITH THE OWNER. ALL MODIFICATIONS TO EXISTING SYSTEM NECESSARY TO ADD NEW DEVICES SHOWN SHALL BE PROVIDED.

BUILDING 100 KEYPLAN

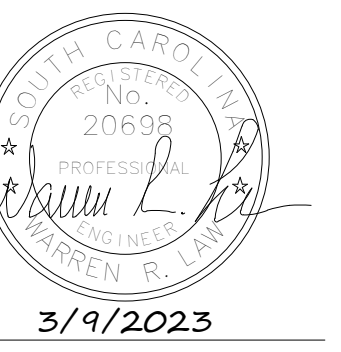
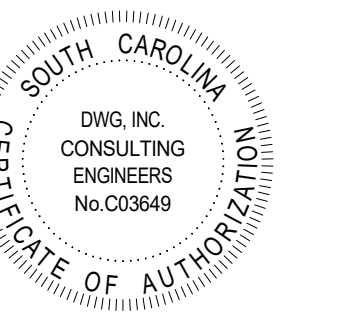


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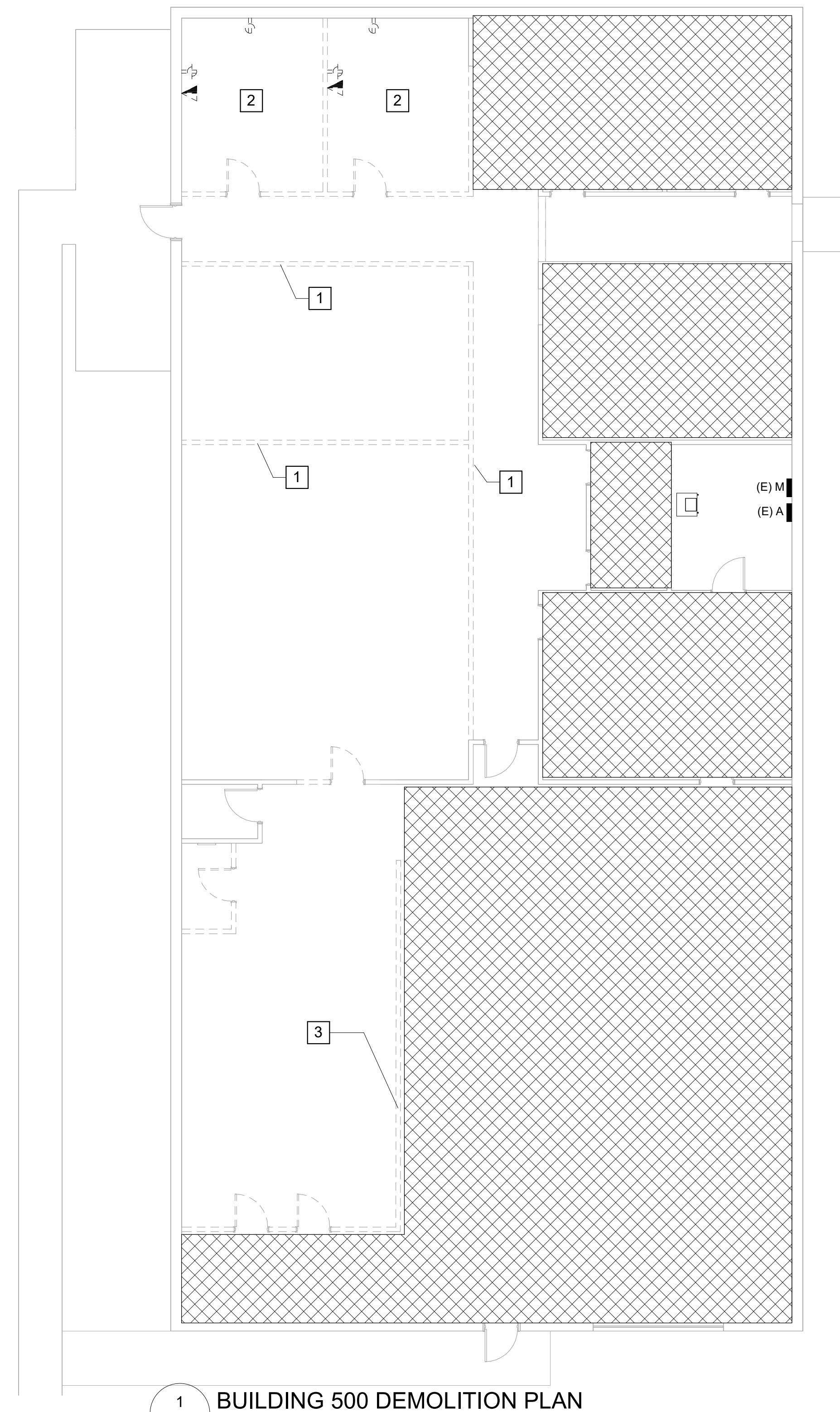
HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN, SOUTH CAROLINA

COMM: 23002
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1 BUILDING 500 DEMOLITION PLAN
ED201 SCALE: 1/8" = 1'-0"

LINE LEGEND	
SYMBOL	DESCRIPTION
—	EXISTING TO REMAIN
—	NEW CONSTRUCTION
- - - -	DEMOLISH

DEMOLITION KEYNOTES

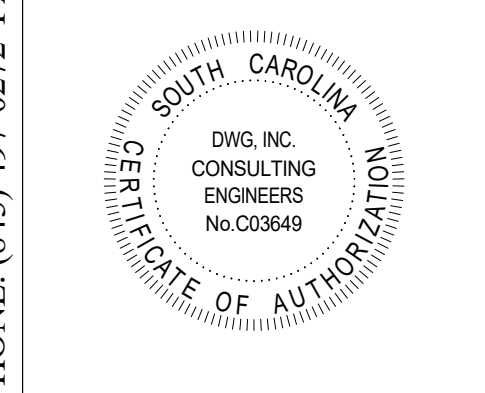
- 1 PRIOR TO DEMOLITION OF WALL, CONTRACTOR SHALL TRACE AND IDENTIFY ALL BRANCH CIRCUITS SERVING LIGHTING AND RECEPTACLE CIRCUITS TO BE REMOVED. CIRCUITS SHALL BE REMOVED BACK TO RESPECTIVE PANEL TO BE USED FOR NEW DEVICES IN MARINE LAB.
- 2 ALL LIGHTING, LIGHTING CONTROLS, AND SYSTEMS SHALL BE DEMOLISHED BACK TO PANEL IN THIS AREA. POWER AND DATA DEVICES SHALL REMAIN IN PLACE.
- 3 DEMOLISH POWER IN PARTIAL WALL. TURN OVER DEVICES TO OWNER.

GENERAL NOTES

- 1. TURN OVER ALL EXISTING ELECTRICAL COMPONENTS TO OWNER

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**HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500**
GEORGETOWN, SOUTH CAROLINA

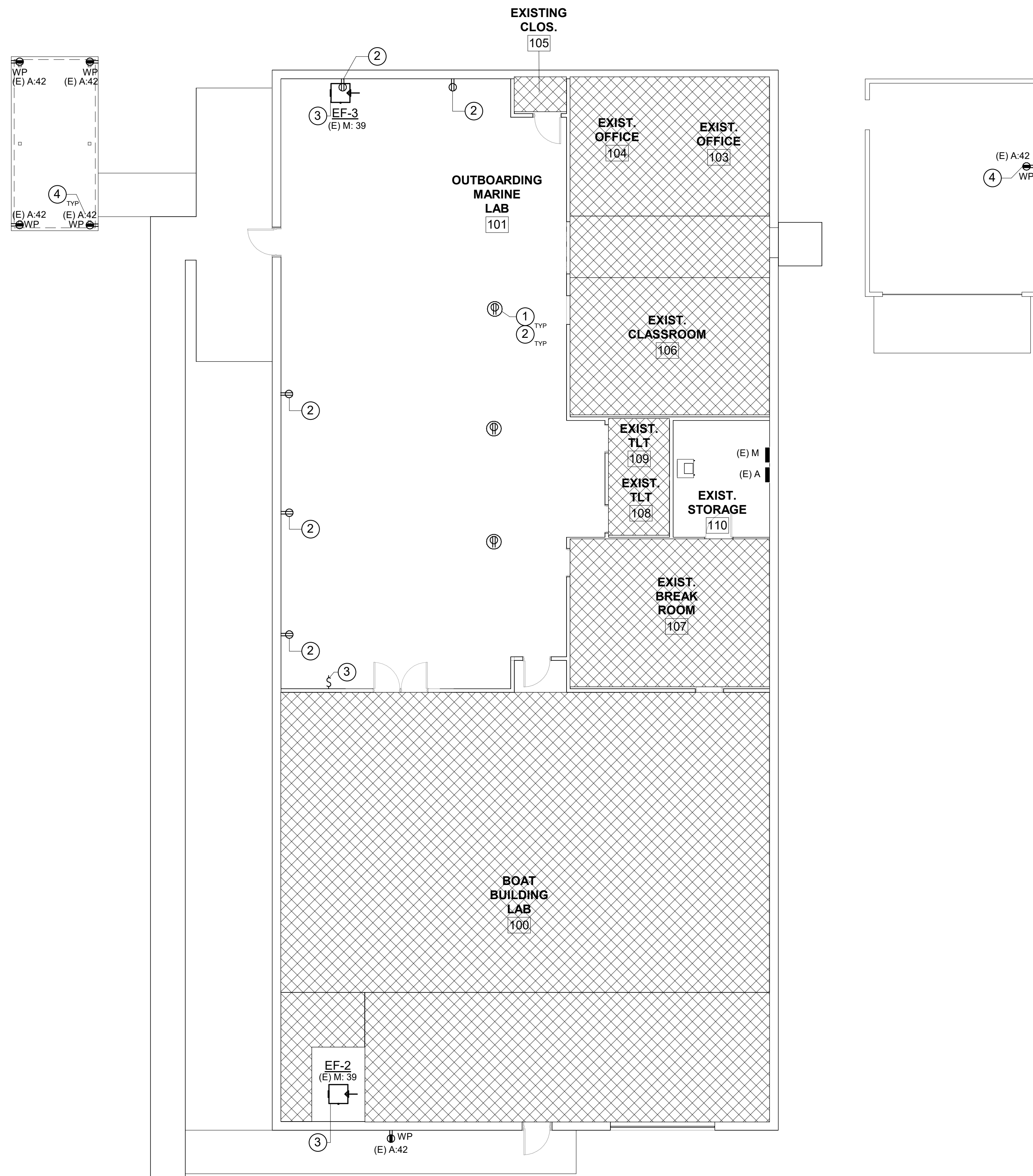
COMM: 23002
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1 BUILDING 500 POWER & TELECOM PLAN
E201 SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

- ① CEILING MOUNTED JUNCTION BOX FOR CONNECTED CORD REEL. HUNG FROM OPEN CEILING. PROVIDE 50' CORD, WITH DUPLEX RECEPTACLE.
- ② EXTEND NEW CIRCUIT FROM SPARE 20 AMP, 1-POLE CIRCUIT IN PANEL A. PROVIDE DEDICATED CIRCUIT TO EACH.
- ③ EXHAUST FAN SHALL BE CONTROLLED BY DEDICATED SWITCH.
- ④ CIRCUITS FOR RECEPTACLE SHALL BE ROUTED UNDERGROUND.

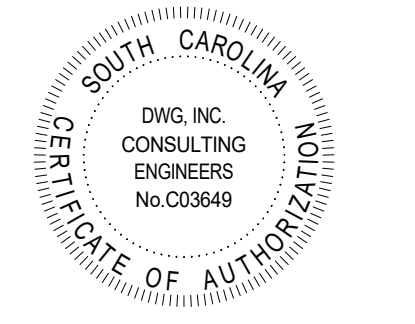
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HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
GEORGETOWN, SOUTH CAROLINA

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BLDG. 500: H59-N221-CB
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1 BUILDING 500 LIGHTING PLAN
 E202 SCALE: 1/8" = 1'-0"

LIGHT FIXTURE PLAN KEY

SHADING INDICATES EMERGENCY FIXTURE [POWERED BY GENERATOR] [SUPPLIED WITH EMERGENCY BATTERY BACKUP].

	A1 = UPPERCASE LETTER / NUMBER INDICATE FIXTURE TYPE
	d = LOWERCASE LETTER INDICATES SWITCH IDENTIFICATION
	NL = INDICATES NON-SWITCHED "NIGHT LIGHT"
	A:2 = DESIGNATES PANEL NAME: CIRCUIT NUMBER

ALL EMERGENCY FIXTURES INDICATED ON PLAN [ARE POWERED BY GENERATOR] [CONTAIN EMERGENCY BATTERY BACKUP. ALL EMERGENCY BACKUP FIXTURES REQUIRE AN EXTRA CONSTANT POWER CONDUCTOR TO BE CONNECTED TO THE EMERGENCY BACKUP FOR CHARGING. THIS CONDUCTOR MUST NOT BE CONTROLLED BY ANY LIGHTING SYSTEM OR HAVE POWER INTERRUPTED AT ANY TIME.] "NL" FIXTURES SHALL HAVE ABSOLUTELY NO LIGHTING CONTROL AND SHALL BE OPERATIONAL AT ALL TIMES.

LIGHT CONTROL SCHEME

LIGHTING CONTROL SYMBOL CORRELATES WITH DESIRED CONTROL SCHEME AS INDICATED IN THE LIGHTING CONTROL SCHEME SCHEDULE.

RENOVATION KEYNOTES

GENERAL NOTES

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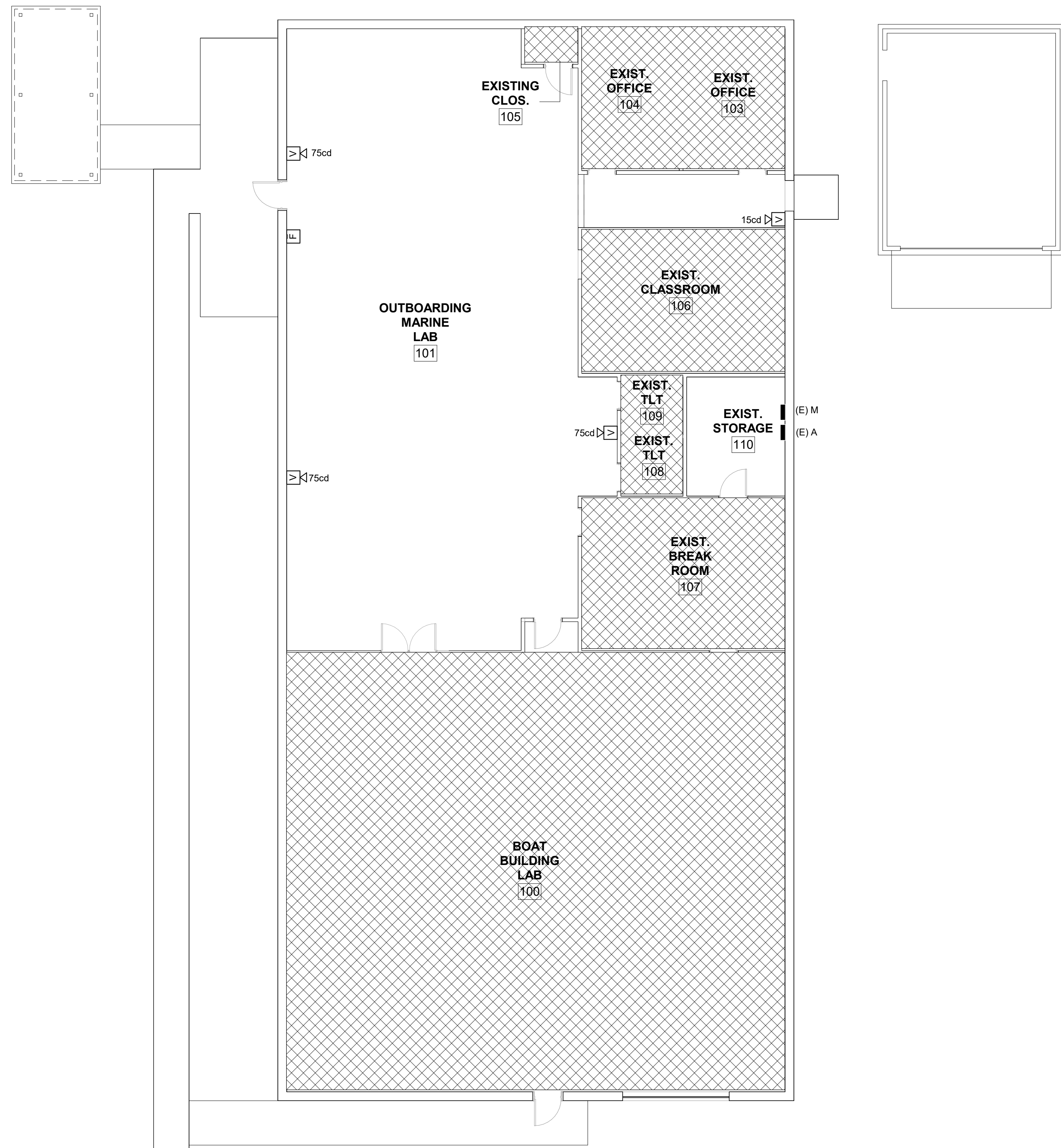
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HORRY-GEORGETOWN TECHNICAL COLLEGE
RENOVATIONS TO:
BUILDING 100 & BUILDING 500
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1 BUILDING 500 SYSTEMS PLAN
E203 SCALE: 1/8" = 1'-0"

RENOVATION KEYNOTES

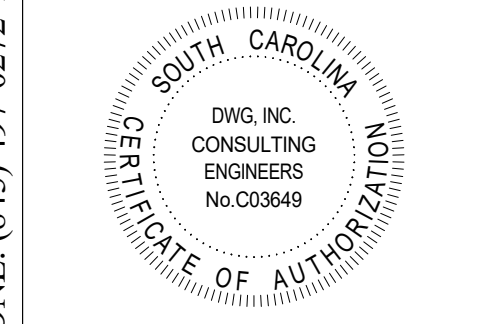
GENERAL NOTES

- 1. ALL FIRE ALARM WORK SHALL BE PERFORMED BY THE LOCAL VENDOR WHO CURRENTLY HOLDS THE SERVICE AGREEMENT WITH THE OWNER. ALL MODIFICATIONS TO EXISTING SYSTEM NECESSARY TO ADD NEW DEVICES SHOWN SHALL BE PROVIDED.



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GEORGETOWN, SOUTH CAROLINA

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PLOT:
DATE: 03/09/23
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