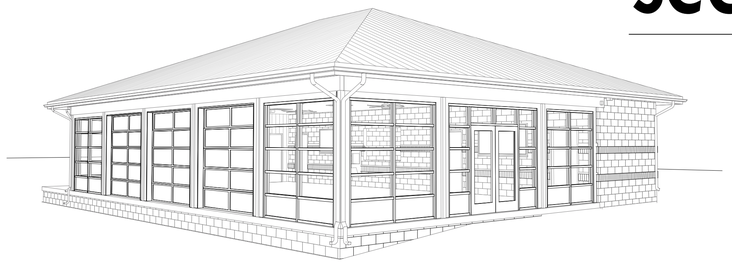
SCC- Giles Campus Horticulture Pavilion Renovation





SPARTANBURG COMMUNITY COLLEGE

SPARTANBURG, SC

Issue Date/ Description: 5/01/2026 - 100% CONSTRUCTION SET

Project No: H59-N385-PD

SHEET LIST

SHEET NO	SHEET NAME	CURRENT REVISION
GENERAL		
G100	COVER SHEET	
G101	LIFE SAFETY + CODE ANALYSIS	
G102	OSE CODE TABLES & REQUIRED INSPECTIONS SCHEDULE	
ARCHITECTURAL		
A100	DEMO AND RENOVATION FLOOR PLANS, FINISHES	
A200	ARCHITECTURAL RCP	
A300	EXTERIOR ELEVATIONS	
A400	PERSPECTIVES	
A500	DETAILS	
A600	DOOR & WINDOW SCHEDULES, ELEVATIONS & SPECIFICATIONS	
A700	INTERIOR ELEVATIONS	
MECHANICAL		
M-0.01	MECHANICAL NOTES & VENTILATION SCHEDULE	
M-0.02	MECHANICAL SCHEDULES & SOO	
M-1.01	MECHANICAL NEW WORK	
M-2.01	MECHANICAL DETAILS 1	
M-2.02	MECHANICAL DETAILS 2	
ELECTRICAL		
E-0.01	ELECTRICAL NOTES & LEGENDS	
E-1.00	ELECTRICAL PLAN	
E-1.2	SCHEDULES & RISER DIAGRAM	

LINE TYPES

BEYOND

CENTERLINE

DEMOLISHED

HIDDEN

OVERHEAD

ANNOTATIONS

"X" "X" FACE DIMENSION

CENTERLINE DIMENSION

1 COLUMN GRID TAG - NEW

A COLUMN GRID TAG - EXISTING

ALIGN ALIGN FACE OF SURFACES

0'-0" SPOT ELEVATION

Name / Elevation LEVEL / ELEVATION HEIGHT

1 REVISION TAG AND CLOUD

ANNOTATIONS

NORTH

NORTH (PROJECT OR TRUE)

PROJECT NORTH

TRUE NORTH

A WINDOW / CURTAIN WALL TAG

L1 LOUVER TAG

SA4 WALL TAG

01 DEMOLITION KEYNOTE

01 KEYNOTE

TA-1 ACCESSORY TAG

F1 FURNITURE TAG

E123456 EQUIPMENT TAG

S99 SIGNAGE TAG

CEILING TAG

1t
10'-0" AFF

CEILING TYPE (IF / WHEN INDICATED)

CEILING HEIGHT

ROOM TAG(S):

ROOM NAME
150 SF ROOM TAG WITH AREA (NO ROOM #)

DEPT/ PHASE
ROOM NAME
00999

ROOM NAME

ROOM # = 2 OR 3 DIGITS

FLOOR # = 1 OR 2 DIGITS

ROOM NAME
00999
150 SF AREA (IF SHOWN)

DOOR TAG:

FLOOR # = 1 OR 2 DIGITS

ROOM # = 2 OR 3 DIGITS

DOOR SEQUENCE (ALPHABETIC)

122A
45 MIN DOOR RATING (IF SHOWN)

VIEW REFERENCE

1/A810 PHOTO REFERENCE TAG

PLAN VIEW TITLE REFERENCE

PLAN NUMBER

A1 / A101 VIEW NAME 1/8" = 1'-0"

VIEW SCALE

CURRENT SHEET

DETAIL VIEW TITLE REFERENCE

DETAIL NUMBER

A1 / A101 VIEW NAME 1/8" = 1'-0"

VIEW SCALE

CURRENT SHEET

PLAN / DETAIL CALLOUT

1 / A103 SIM

REFERENCED SHEET

BUILDING SECTION CALLOUT

1 / A610 SIM 1 / A610 SIM

REFERENCED SHEET

WALL SECTION CALLOUT

A5 / A610 SIM

REFERENCED SHEET

DETAIL SECTION CALLOUT

1 / A601 SIM

REFERENCED SHEET

1 Ref / A510 / 1 Ref (1 Ref above, 1 Ref below) **EXTERIOR ELEVATION CALLOUT**

A1 Ref / A1011 / A1 Ref (A1 Ref above, A1 Ref below) **INTERIOR ELEVATION CALLOUT**

STANDARD GRAPHICS AND SYMBOLS

GENERAL NOTES

1. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES, AS INDICATED ON THIS SHEET AND ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS HAVING JURISDICTION.
2. DIMENSIONS SHOWN FOR EXTERIOR AND INTERIOR DOORS AND WINDOWS ARE TO CL OF UNIT UNLESS OTHERWISE NOTED.
3. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH THE WORK.
4. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR CONFLICTS BETWEEN THE ARCHITECTURAL DRAWINGS AND THOSE OF THE ENGINEERS, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
5. ALL WOOD IN CONTACT WITH MORTAR, CONCRETE, OR MASONRY TO BE PRESSURE TREATED. ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED IF REQUIRED BY CODE.
6. ALL WORK LISTED, SHOWN OR IMPLIED ON THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR EXCEPT WHERE OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS OR VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE TO THE SUPPLIERS REQUIREMENTS.
7. ALL INTERIOR DIMENSIONS GIVEN ARE FROM EXISTING FACE OF FINISH, FACE OF NEW STUD, OR CENTERLINE OF COLUMN, UNLESS OTHERWISE NOTED. EXTERIOR DIMENSIONS ARE FROM FACE/ EDGE OF MASONRY/ CONCRETE OR COLUMN CENTERLINE, UNLESS OTHERWISE NOTED.
8. PROVIDE TYPE X, MOLD AND MOISTURE RESISTANT GYPSUM WALL BOARD IN ALL TOILET ROOMS.
9. PROVIDE CEMENT BOARD IN ALL WET SHOWER AREA WALLS WITH TILE FINISH.
10. ANY PORTION OF GYPSUM WALL BOARD THAT BECOMES WET OR SHOWS SIGNS OF MOISTURE DAMAGE, EITHER BEFORE OR AFTER INSTALLATION, IS TO BE REMOVED IMMEDIATELY AND REPLACED WITH NEW DRY GYPSUM WALL BOARD.
11. INTERIOR PARTITIONS MAY HAVE ADDITIONAL FINISHES. REFERENCE FINISH SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
12. PROVIDE SOUND ATTENUATION BLANKET AT ALL INTERIOR PARTITIONS AND RUN FULL HEIGHT OF PARTITION UNLESS NOTED OTHERWISE.
13. MINOR WALLS OR OTHER WALLS NOT TAGGED WILL BE OF THE SAME WALL TYPE AS ADJACENT WALLS (UNLESS OTHERWISE NOTED).
14. COORDINATE AND PROVIDE ALL REQUIRED BLOCKING WITHIN THE WALLS. THIS INCLUDES BUT IS NOT LIMITED TO, ALL MILLWORK, CASEWORK, GRAB BARS, MONITORS.
15. INSTALL GYPSUM WALL BOARD ON INTERIOR PARTITIONS WITH A MINIMUM 1/4" GAP BETWEEN THE GYPSUM WALL BOARD AND THE FINISHED FLOOR.

GENERAL DEMOLITION NOTES

1. THE PURPOSE OF THESE DEMOLITION PLANS, AS MADE PART OF THE CONTRACT DOCUMENTS, IS TO GIVE THE GENERAL CONTRACTOR A GENERAL IDEA AS TO THE SCOPE OF ARCHITECTURAL DEMOLITION WORK REQUIRED. THE CONTRACTOR SHALL VISIT THE FACILITY, THOROUGHLY EVALUATE THE EXISTING FACILITY AGAINST THE DRAWINGS AND ACTUAL SITE CONDITIONS.
2. GENERAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS. DEMOLITION RESPONSIBILITIES ARE NOT NECESSARILY LIMITED TO THOSE LISTED BELOW. WORK INCLUDES REMOVAL AND LEGAL DISPOSAL OF ALL EXISTING CONSTRUCTION ITEMS THAT ARE NOT UTILIZED IN THE FINISHED CONSTRUCTION PROJECT. REMOVE ALL ITEMS SPECIFICALLY INDICATED IN THE DRAWINGS AND ITEMS WHICH ARE NECESSARY TO BE REMOVED IN ORDER TO FACILITATE THE NEW CONSTRUCTION WORK. PERFORM DEMOLITION IN A NEAT AND ORDERLY MANNER, TO MINIMIZE DISRUPTIONS.
3. ALL WORK SCHEDULES SHALL BE COORDINATED WITH AND APPROVED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO MINIMIZE DISRUPTION TO ANY ADJACENT OCCUPIED AREAS DURING THE COURSE OF THE DEMOLITION WORK.
4. THE GENERAL CONTRACTOR SHALL PROVIDE FOR THE TEMPORARY STORAGE OF ALL COMPONENTS OF THE EXISTING WORK SCHEDULED TO BE REUSED. ITEMS SCHEDULED TO BE REUSED THAT ARE DAMAGED AS A RESULT OF POOR OR INADEQUATE HANDLING AND STORAGE MEANS OR METHODS, SHALL BE REPLACED WITH APPROVED SUBSTITUTES BY THE GENERAL CONTRACTOR AT NO ADDITIONAL CHARGE.
5. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL MATERIAL AND ITEMS TO BE REMOVED. ITEMS IDENTIFIED BY THE OWNER TO BE SALVAGED AND TURNED OVER TO THE OWNER ARE TO BE REMOVED BY THE GENERAL CONTRACTOR AND DELIVERED TO A MUTUALLY AGREED UPON LOCATION ON THE JOB SITE.
6. REMOVE ITEMS IN SUCH A WAY AS TO NEITHER DAMAGE ADJACENT MATERIALS NOR COMPROMISE THE STRUCTURAL INTEGRITY OF EXISTING BUILDING. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF EXISTING CONSTRUCTION AS REQUIRED TO PERFORM THE PRESCRIBED WORK.
7. ALL ABANDONED, NONESSENTIAL OR OTHERWISE NOT SPECIFICALLY SHOWN TO BE REUSED, MECHANICAL, PLUMBING, OR ELECTRICAL UTILITIES THAT ARE EXPOSED AFTER THE CEILING OR WALL REMOVAL, ARE TO BE REMOVED AND CAPPED AT POINT OF ORIGIN.
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT EXISTING SURFACES AND FINISHES TO REMAIN IN THE AREAS RENOVATED, AND ALONG THE ROUTES OF WASTE REMOVAL. DAMAGE TO SUCH SURFACES SHALL BE REPAIRED TO AN EXISTING CONDITION STATUS BY THE GENERAL CONTRACTOR AT NO CHARGE.
9. THE CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OR SUSPICION OF OR THE PRESENCE OF ANY HAZARDOUS MATERIALS TO THE OWNER PRIOR TO PROCEEDING WITH DEMOLITION WORK.
10. THE PURPOSE OF THE DEMOLITION DRAWINGS ARE STRICTLY LIMITED TO GENERALLY INDICATING AREAS AND/ OR ITEMS TO BE REMOVED. THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCE AND EXACT EXTENT OF DEMOLITION NEEDED FOR NEW CONSTRUCTION. VERIFY ALL DEMOLITION DIMENSIONS PRIOR TO DEMOLITION AND COORDINATE VERIFIED DIMENSIONS WITH NEW WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES DISCOVERED. DISCREPANCIES SHALL BE RESOLVED PRIOR TO BEGINNING DEMOLITION WORK.
11. CONTRACTOR SHALL COORDINATE DEMOLITION OF UTILITIES THAT SERVE SPACES WHICH WILL REMAIN AS PART OF ANY NEW CONSTRUCTION. PROTECT ALL UTILITIES IN THE DEMOLITION AREA AS REQUIRED TO ENSURE CONTINUOUS OPERATION OF SERVICES. IF UTILITY INTERRUPTION IS ANTICIPATED, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING FIVE BUSINESS DAYS PRIOR TO INTERRUPTION OF SERVICES
12. ALL FURNISHINGS SHALL BE REMOVED OR RELOCATED PRIOR TO DEMOLITION PROCEDURES.
13. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE REQUIRED TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, ETC. AFTER REMOVAL, AFFECTED CONSTRUCTION AND SURFACES SUCH AS FLOORS, WALLS, BASES, AND CEILINGS SHALL BE FINISHED TO MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED.
14. AFTER DEMOLITION AND REMOVAL OF MATERIALS, THE FLOOR IS TO BE PREPARED TO RECEIVE NEW FLOORING OR NEW FINISH. THE CONTRACTOR IS TO PERFORM ANY REMEDIATION WORK REQUIRED TO PREPARE THE FLOOR TO RECEIVE NEW FINISHES, INCLUDING BUT NOT LIMITED TO THE GRINDING OF PROTRUSIONS AND THE FILLING OF LOW SPOTS AND SURFACE IRREGULARITIES.
15. SAWCUT WALLS AND FLOORS AS REQUIRED FOR INSTALLATION OF NEW PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS. INFILL TO MATCH ADJACENT WALLS AND FLOORS USING MATERIALS TO MATCH EXISTING. PREPARE TO RECEIVE NEW FINISHES.
16. REMOVE ALL TRASH AND DEBRIS COMPLETELY.
17. AT EXISTING WALLS TO REMAIN, REMOVE ALL UNUSED WIRE MOLDING, DEVICES, WALL DISPLAYS, WALL BASE HANGERS, OR PROTRUSIONS AND PATCH AND PREPARE WALL AS REQUIRED TO ACHIEVE A SMOOTH SURFACE READY TO RECEIVE NEW WALL FINISHES.
18. REMOVE VINYL OR LINOLEUM FLOORING COMPLETELY. REMOVE SHOE MOLD, UNDERLAYMENT (IF APPLICABLE) & MASTIC COMPLETELY.

SPARTANBURG Community College

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ARCHITECT

TEAGUE STUDIO
ARCHITECTURE + DESIGN
708 E. Main St. | Spartanburg, SC 29302
ph: 864.310.4327 | www.studioteague.com

PROJECT NAME:

SCC- GILES CAMPUS HORTICULTURE PAVILION RENOVATION

PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

COVER SHEET

SEAL & SIGNATURE:

STATE OF SOUTH CAROLINA — TEAGUE STUDIO, LLC — SPARTANBURG, SC — No. 101458 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MEGHAN C. TEAGUE — Spartanburg, SC — No. 8288 — 5/1/26 — REGISTERED ARCHITECT

DRAWN BY: RRB

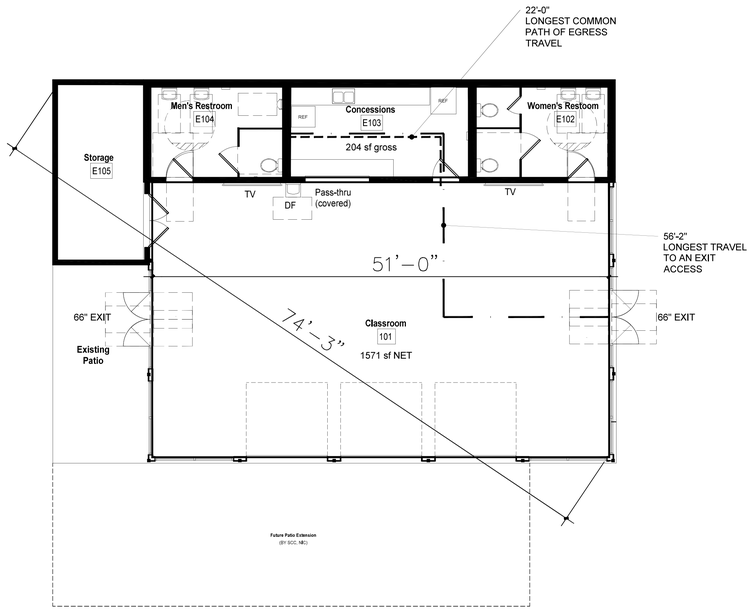
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DATE: 5/01/26

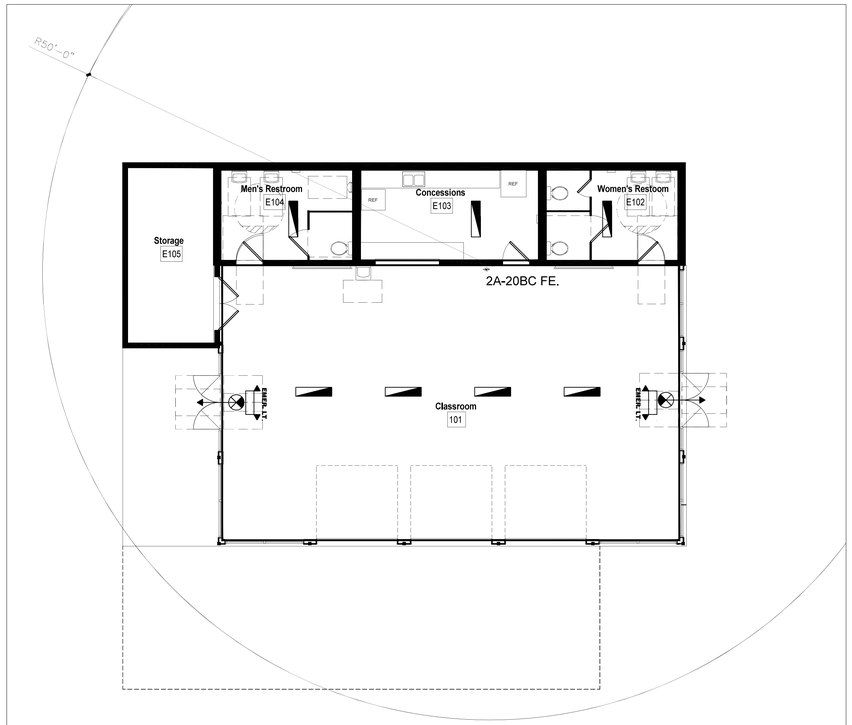
100% CONSTRUCTION SET

DRAWING NO.:

G100



1 G101 **LIFE SAFETY PLAN**
1/8" = 1'-0"



2 G101 **FIRE SAFETY PLAN**
1/8" = 1'-0"

Project Data

NAME OF PROJECT:	SPARTANBURG COMMUNITY COLLEGE SCC HORTICULTURE PAVILION RENOVATION
ADDRESS:	151 COMMUNITY COLLEGE DRIVE SPARTANBURG, SC 29303
PROPOSED USE:	HORTICULTURE TEACHING BUILDING
CODE JURISDICTION:	COUNTY of SPARTANBURG, SC
CONTACT PERSON:	DAVID BARBER BARBERD@SCCSC.EDU
ARCHITECT:	MEGHAN TEAGUE - SC LICENSE 8288
ELECTRICAL ENGINEER:	KIM CATHERINE WOOTEN - SC LICENSE 15775
M&P ENGINEER:	MATTHEW M PESCE - SC LICENSE 22723

DESIGN CODES AND STANDARDS:

1. INTERNATIONAL EXISTING BUILDING CODE 2021 ED.
2. INTERNATIONAL BUILDING CODE 2021 ED. w/ SC AMENDMENTS
3. INTERNATIONAL FIRE CODE 2021 ED.
4. INTERNATIONAL ENERGY CONSERVATION CODE 2009 ED
5. INTERNATIONAL MECHANICAL CODE 2021 ED w/ SC AMENDMENTS
6. NFPA 70 - NATIONAL ELECTRICAL CODE 2020 w/SC AMENDMENTS

CODE CITATIONS ARE FROM THE IEBC UNLESS SPECIFIED AS IBC or IFC

BUILDING DATA: EXISTING CONSTRUCTION IEBC LEVEL 2 RENOVATION
IEBC 301.3.2 WORK AREA COMPLIANCE METHOD, CHAPTERS 6-12.

THIS RENOVATION IS TO ENCLOSE THE EXISTING OPEN AIR PAVILION WITH STOREFRONT, ROLL-UP DOORS AND TWO EXITS. THE MECHANICAL, & ELECTRICAL SYSTEMS WILL BE ALTERED. AS SUCH, THE RENOVATION FALLS UNDER IEBC 801.3 WHICH ELIMINATES OTHER LEVEL 2 REQUIREMENTS FOR THE WORK AREA.

CONSTRUCTION TYPE:	5B - UNSPRINKLED - EXISTING CONSTRUCTION (ABOUT 2003)	
OCCUPANCY	A-3 UNCONCENTRATED 15 SF NET	
SPRINKLERS	NO IEBC 803.2.2 > IBC 903.2.1.3 NOT REQUIRED FOR GROUP A-3 WHERE THE AREA <12,000SF & OCCUPANT LOAD <300	
STANDPIPE	NO	
FIRE DISTRICT:	NO	
BUILDING HEIGHT:	+/-26'	ALLOWABLE 40' IBC table 504.3
NUMBER OF STORIES:	1	ALLOWABLE 1 IBC table 504.4
MEZZANINE:	NO	
HIGH RISE:	NO	
GROSS FLOOR AREA:	2324 SQ. FT.	
ALLOWABLE AREA:	18,500 SQ. FT. IBC table 506.2	

OCCUPANCY LOAD FOR A-3 USE (IBC TABLE 1004.5)

MAIN FLOOR	1,571 SF / 15 SF NET/OCCUPANT	= 105 OCC.
CONCESSIONS	204 SF / 200 SF NET/OCCUPANT	= 2 OCC.
	IBC TOTAL OCCUPANT LOAD	= 107 OCC.

EACH EXIT ACCESS WILL BE DESIGNED FOR MORE THAN THE CODE MINIMUM WIDTH OF 36"

AT THE OWNER'S REQUEST, THE BUILDING HAS AN HVAC SYSTEM DESIGNED TO ACCOMODATE 60 OCCUPANTS; HOWEVER, THE OTHER CODE REQUIREMENTS ARE DESIGNED FOR 107 OCCUPANTS.

OCCUPANCY: EXISTING BUILDING UNCHANGED

PRIMARY OCCUPANCY:	ASSEMBLY A-3 UNCONCENTRATED 15 SF NET
SECONDARY OCCUPANCY:	NONE
SPECIAL OCCUPANCY:	NONE
MIXED OCCUPANCY:	NO
FRONTAGE INCREASE	NO
AREA INCREASE:	NO
SPRINKLER INCREASE:	NO
HEIGHT INCREASE:	NO
SEISMIC COMPLIANCE	NA EXISTING CONSTRUCTION, UNCHANGED USE

FIRE RESISTANCE

TYPE 5-B UNSPRINKLED	NO CHANGE OF OCCUPANCY	
FIRE BARRIERS	NA	
FIRE HAZARD	UNCHANGED	CATAGORY 3 IEBC Table 1011.7
EXTERIOR WALL FIRE RESISTANCE	NO CHANGE	IEBC Table 1011.7
EXTERIOR WALL RATINGS	NO CHANGE	IEBC 1011.7.2
OPENING PROTECTIVES	NOT REQUIRED	IEBC 1011.7.3 Ex 4 NO CHANGE
VERTICAL SHAFT ENCLOSURES	NA	
STAIRWAYS	NA	
HANDRAILS	NA	
OPENINGS IN VERTICAL SHAFTS	NA	

FINISH CLASSIFICATIONS (per Table 803.13) Group A-3 unsprinklered

EXIT PASSAGEWAYS :	Class 'A' -	Flamespread 0-25 Smoke Developed 0-450
EXIT ACCESS CORRIDORS:	Class 'B' -	Flamespread 26-75 Smoke Developed 0-450
OTHER SPACES:	Class 'C' -	Flamespread 76-200 Smoke Developed 0-450
CARPET	Radiant Flux Class II in accord with ASTM D 2859	
COMBUSTIBLE DECORATIVE MATERIALS	Meet NFPA 701 and not exceed 10% coverage of walls & ceiling.	

IBC BUILDING EXIT REQUIREMENTS

TWO EXITS REQUIRED OCCUPANT LOAD > 49
COMMON PATH OF EGRESS TRAVEL ALLOWED 75' PROVIDED 22'-0" IBC table 1006.2.1
EXIT ACCESS TRAVEL DISTANCE ALLOWED 75' PROVIDED 56' 2" IBC table 1006.3.4(2)
NUMBER OF EXITS REQUIRED 2, NUMBER OF EXITS PROVIDED 2

EXIT WIDTH REQUIREMENTS:
105 PERSONS TIMES 0.2 "/OCC. (LEVEL) = 21" < 34" MIN. REQUIRED TWO PROVIDED AT 66" EA.
DEAD END CORRIDOR LIMIT - MAX CONDITION ALLOWED 20' PROVIDED NONE
DIAGONAL OF PLAN DIVIDED BY TWO: 74'-3" / 2 = 37'-2"
DISTANCE BETWEEN PRIMARY EXITS: 51'-0"

LIFE SAFETY SYSTEMS:

FIRE ALARM	NO
SMOKE DETECTORS	NO
CO DETECTORS	NO
EXIT SIGNS	YES
EMERGENCY LIGHTING	YES
SPRINKLERS	NO
FIRE EXTINGUISHERS	YES
PANIC HARDWARE	YES IBC 1010.2.9 OCCUPANT LOAD >50

ACCESSIBILITY

IEBC 306.7.2 ACCESSIBLE MEANS OF EGRESS IN IBC CHAPTER 10 ARE NOT REQUIRED IN EXISTING BUILDINGS; HOWEVER, THIS BUILDING IS ACCESSIBLE.

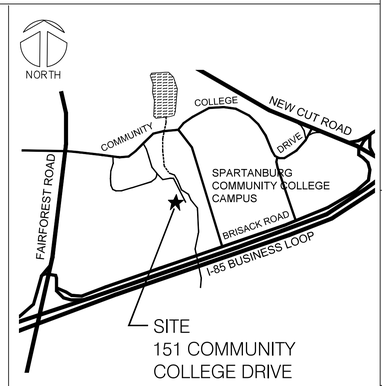
PLUMBING

IBC 2021 Table 2902.1 Group A3 FACILITIES REQUIRE:

TOILETS MEN @ 1 PER 125	PROVIDED	1
URINALS	PROVIDED	1 (67% SUBSTITUTION RULE)
TOILETS WOMEN @ 1 PER 65	PROVIDED	2
LAVATORIES 1 PER 200	PROVIDED	2 EA. SEX
WATER FOUNTAINS 1 PER 500	PROVIDED	1
SERVICE SINK 1 REQUIRED	1 SINK IN CONCESSIONS AREA	

Note:
See sheet G102 for OSE Code Sheets

Location Map



SPARTANBURG Community College

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PROJECT NAME:
SCC- GILES CAMPUS HORTICULTURE PAVILION RENOVATION

PROJECT NUMBER:
H59-N385-PD

DRAWING TITLE:
CODE REVIEW & LIFE SAFETY

SEAL & SIGNATURE:



DRAWN BY: ABJ
CHECKED BY:
DATE: 5/01/26
100% CONSTRUCTION SET

DRAWING NO.:
G101

DESIGN CODES AND STANDARDS:

1. INTERNATIONAL EXISTING BUILDING CODE 2021 ED.
2. INTERNATIONAL BUILDING CODE 2021 ED. w/ SC AMENDMENTS
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CODE CITATIONS ARE FROM THE IEBC UNLESS SPECIFIED AS IBC or IFC

2023 Edition

OSE CERTIFICATIONS

The following code tables and certifications are based on the most current codes adopted by OSE shown in Chapter 5 of this manual. These tables and certifications are to be included on the Construction Drawings AS-IS. Do not re-create these in another format or medium. Please contact OSE if you need assistance.

ZONING CERTIFICATION

"I hereby certify that, to the best of my knowledge, these plans comply with applicable zoning ordinances, and that plans have been submitted to appropriate authority for their review and/or approval."

Signed: Meghan Teague 5/13/26
Architect/Engineer Date

If the project does not require a National Pollution Discharge Elimination System (NPDES) permit from SCDHEC, include the following certification on the Site Plan(s):

EROSION AND SEDIMENT REDUCTION/STORMWATER MANAGEMENT

Designer's Certification:

"I hereby certify that the measures in this plan are designed to control erosion, retain sediment on the site, and manage stormwater in a manner that neither any on-site nor off-site damage or problem is caused or increased, that all structural measures are designed to the minimum standards for health and safety, and that all the provisions of the plan are in compliance with the Regulations contained in Chapter 72, Article 2, SC Code of Regulations (Erosion and Sediment Reduction and Stormwater Management Regulations)."

Signed: _____ _____
Engineer or Registered Landscape Architect (Circle one) Date

2023 Edition

TABLE 1 FLOOD HAZARD INFORMATION & FLOOD LOADS

FLOOD HAZARD AREA

Flood Map Information: Flood Zone: _____ *(A Floodplain Permit is required for A and V Zones)*
Community Number: _____ Panel Number: _____

Is the Project Site in a 100-Year Floodplain? Yes ☐ No ☒
Base Flood Elevation (NGVD or FIRM) _____ MSL
Design Flood Elevation (IBC 1612.3 and ASCE 24) _____ MSL

NON HIGH-VELOCITY WAVE ACTION

Elevation of Lowest Proposed Floor (ASCE 24, Chapter 2) _____ MSL
Dry floodproofing (ASCE 24) Yes ☐ No ☐

HIGH-VELOCITY WAVE ACTION

Elevation of bottom of Lowest Horizontal Structural Member of lowest floor _____ MSL
Flotation resistant (ASCE 24) Yes ☐ No ☐
Breakaway wall (ASCE 24) Yes ☐ No ☐

IBC 1612 and SE-510, as applicable

2023 Edition

TABLE 2 SOILS & SITE

SOILS INVESTIGATION (If required - IBC 1803.2) Yes ☐ No ☒

SOILS CLASSIFICATION

Site Class (IBC 1613.2.2) _____
Classes Soil of Materials (UCS System) (IBC 1803.5.1) _____
Allowable Footing Bearing Pressure _____ psf

MINIMUM DESIGN SOIL BEARING LOAD (IBC Table 1806.2) _____ psf

COMPACTION

Subgrade: _____ Percent
Base: _____ Percent
Other: _____ Percent

MINIMUM DESIGN SOIL LATERAL LOAD (IBC 1610.1) _____ psf

FOOTINGS

Undisturbed footings Yes ☐ No ☐
Compacted Fill Material (IBC 1804.6) Yes ☐ No ☐

ELEVATIONS

Elevation of Water Table: _____ MSL
Elevation of lowest footing: _____ MSL
Elevation of lowest floor or basement: _____ MSL

2023 Edition

TABLE 3E CODE INFORMATION FOR ADDITIONS, ALTERATIONS, OR CHANGE OF OCCUPANCY TO AN EXISTING STRUCTURE

TYPE OF PROJECT:

☒ Alteration (IEBC Chaps. 7, 8 & 9) ☐ Addition (IEBC Chap. 11) ☐ Change of Occupancy (IEBC Chap. 10)

METHOD OF COMPLIANCE:

(Check only one Option and all items that apply under that Option.)

☐ **Option 1: Prescriptive Compliance Method (IEBC Chapter 5)**

☒ **Option 2: Work Area Compliance Method (IEBC Chaps. 6-12)**
- ☐ Alteration Level 1, minor including reroofing (IEBC Chap. 7)
- ☒ Alteration Level 2, reconfigurations of space (IEBC Chap. 8)
- ☐ Alteration Level 3, work area exceeds 50% (IEBC Chap. 9)

Aggregate area of building: _____ SF
Work area: _____ SF

☐ **Option 3: Performance Compliance Method (IEBC Chap. 13)**

CONSTRUCTION CLASSIFICATION (IBC 602) Type: _____

Change of Occupancy: ☐ Yes ☒ No
Existing Occupancy Classification(s): A-3 Unconsentrated
New Occupancy Classification(s): _____

Original Building Code and Edition Applicable at time of Construction: IBC 2000

Provisions for Accessibility Required (IEBC 306)? ☐ Yes ☒ No
Existing Sprinkler System? ☐ Yes ☒ No
Existing Fire Alarm System? ☐ Manual ☐ Auto
Seismic Evaluation Required? ☐ Yes ☒ No
Major Facility Project? (See §48-52-810(10(a)) ☐ Yes ☒ No

Emergency Responder Communication Coverage: (IFC Section 510.2)
Provide test to confirm if Communication Coverage Enhancement is Required? ☐ Yes ☒ No
If No, please explain why not: No Area of Rescue Assistance required

Historic Building (IEBC Chapter 12): ☐ Yes ☒ No
☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

2023 Edition

TABLE 4 BUILDING HEIGHT & AREA

BUILDING HEIGHT

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
IBC TABLE 504.3	26	N/A	40	N/A
IBC TABLE 504.4	N/A	1	N/A	1
TOTAL HEIGHT (including any Allowable Increase)	26	1	40	1

BUILDING AREA

AREA LIMIT AS ALLOWED BY IBC TABLE 506.2 (area limitation for each story) 18,500 SF

AREA INCREASES AS ALLOWED BY IBC SECTIONS 506.2 & 506.3 NA SF (maximum modified area for each story)

EXPLANATION OF INCREASES: _____

AREA AS ALLOWED BY IBC

Story: 1 18,500 SF (area this story)
Story: _____ _____ SF (area this story)
Story: _____ _____ SF (area this story)
Story: _____ _____ SF (area this story)
Story: _____ _____ SF (area this story)

TOTAL AREA OF BUILDING ALLOWED BY IBC (sum of all stories) 18,599 SF

AREA AS DESIGNED		**ACCESSORY OCCUPANCY** (IBC 508.2 & Table 506.2)
Story: 1	2324 SF (area this story)	NA SF (area this story)
Story: _____	_____ SF (area this story)	_____ SF (area this story)
Story: _____	_____ SF (area this story)	_____ SF (area this story)
Story: _____	_____ SF (area this story)	_____ SF (area this story)
Story: _____	_____ SF (area this story)	_____ SF (area this story)

TOTAL DESIGNED AREA OF BUILDING (summary of all stories) 2324 SF

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TABLE 5 BUILDING DESIGN OCCUPANT LOAD

STORY	FUNCTION OF SPACE [1]	A FLOOR AREA [2] (NSF or GSF)	B MAX AREA ALLOWED PER OCCUPANT [3] (NSF or GSF)	C OCCUPANTS ON FLOOR FOR THIS FUNCTION [4]	D DESIGN OCCUPANT LOAD [5]
1	Classroom	1570 NSF	15 NSF	105	
	Concessions	204 GSF	200 GSF	2	
	____	____	____	____	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				107
____	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				____
____	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				____
____	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	____	____	____	____	
	Subtotal Design Occupant Load for This Story				____
TOTAL BUILDING DESIGN OCCUPANT LOAD					107 [6]

FOOTNOTES:

1. Provide the complete name of the Function of Space using the left column of Table 1004.5 of the IBC [1]
2. Design Area per each occupant of this Function on this Story in either Gross (GSF) or Net (NSF) Square Footage [2]
3. Allowed Floor Areas in SF per Occupant per right column in Table 1004.5 of the IBC [3]
4. Divide Column A (2) by Column D (3) for each function and enter result, rounded up to the nearest whole person [4]
5. Subtotal all Column C values for this floor to yield the Design Occupant Load [5]
6. Total Building Design Occupant Load –sum of all Column D value [6]

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TABLE 6 GENERAL FIRE PROTECTION REQUIREMENTS

SEPARATIONS

Fireblocking Required (IBC Section 718)	Yes ☐	No ☒
Draftstopping Required (IBC Section 718)	Yes ☐	No ☒
Smoke Control System Required (IBC Section 909)	Yes ☐	No ☒
Smoke Barriers Required (IBC Section 407 & 408)	Yes ☐	No ☒
Smoke Partitions Required (IBC Section 407)	Yes ☐	No ☒
Fire Partition Required (IBC Section 708)	Yes ☐	No ☒
Fire Barrier Required (IBC Section 707)	Yes ☐	No ☒

ALARM & DETECTION

Fire Alarm System Required (IFC Section 907)	Yes ☐	No ☒
Emergency/Voice Alarm Communications System Required (IFC Section 907.5.2.2)	Yes ☐	No ☒
Fire Command Center Required (IFC Section 508)	Yes ☐	No ☒

SUPPRESSION

Standpipes Required (IFC Section 905)	Yes ☐	No ☒
Sprinklers Required (IFC Section 903)	Yes ☐	No ☒
Sprinklers Provided (_____)	Yes ☐	No ☒
Portable extinguishers required (IFC 906)	Yes ☒	No ☐
Other suppression systems required (IFC 904)	Yes ☐	No ☒
Smoke & heat vents required (IFC 910)	Yes ☐	No ☒

OTHER: *(Indicate other provided fire and life safety features not listed above, if any)*

Emergency Responder Communication Coverage: (IFC Section 510)
Provide test to confirm if Communication Coverage Enhancement is Required? Yes ☐ No ☒
If No, please explain why not: Building meets all requirements of IFC Table 1103 for A Occupancy

____
____
____

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TABLE 7 FIRE RESISTANCE RATING OF BUILDING ELEMENTS

BUILDING ELEMENT	RATING AS REQUIRED (in hours)	RATING AS DESIGNED (in hours)	TESTING AGENCY & DESIGN NO. (UL, FM, etc)	DESIGNERS WALL/ PARTITION KEY CODE
Primary Structural Frame (IBC Table 601)	0	0	____	
Bearing Walls: (IBC Table 601)				
Exterior (IBC Table 705.5)	0	0	____	____
Interior	0	0	____	____
Nonbearing Walls & Partitions (IBC Table 601, including footnote "d" & 602)				
Exterior (IBC Table 705.5)	0	0	____	____
Interior	0	0	____	____
Floor Construction (IBC Table 601) (including supporting beams & joists)	0	0	____	
Roof Construction (IBC Table 601) (including supporting beams & joists)	0	0	____	
Fire Walls (IBC Section 706)	NA	0	____	____
Fire Barriers (IBC Section 707)	NA	0	____	____
Fire Partitions (IBC Section 708)	NA	0	____	____
Shaft Enclosures (IBC Section 713)	NA	0	____	____
Opening & Protective Listing by Category (fire shutters, doors, etc. - IBC Section 716)	NA	0	____	____
Others (as required by Designer)	NA	0	____	____

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TABLE 8 STRUCTURAL DESIGN INFORMATION

RISK CATEGORY (IBC Table 1604.5): Cat. II

LIVE LOADS

Floor Live Load(s)
Occupancy/Use: ASSEMBLY AREA/ MOVABLE SEATS F_0 = 100 PSF
Occupancy/Use: _____ F_0 = _____ PSF
Occupancy/Use: _____ F_0 = _____ PSF
Occupancy/Use: _____ F_0 = _____ PSF
Roof Live Load R_0 = 95 PSF
Ground Snow Load (IBC Figure 1608.2 or ASCE 7) p_g = 10 PSF

WIND LOADS

Analysis Procedure (ASCE 7 or IBC 1609.1): ASCE 7
Basic Design Wind Speed (IBC Fig's. 1609.3(1)-(3)): V = 107 MPH
Exposure Category (IBC 1609.4.3): Category B
Internal Pressure Coefficient (ASCE 7): GC_{pi} = 0.18
External Pressure Coefficient (ASCE 7): GC_p = -1.2
Protection of Openings Required (IBC 1609.2): Yes ☐ No ☒
If "Yes", check one: Impact Resistant Glazing ☐ Impact Resistant Covering ☐

SEISMIC LOADS

Seismic Importance Factor (ASCE 7 Table 1.5-2): I_e = 1.00
Site Class (IBC 1613.2.2): Class D
Mapped Spectral Response Accelerations: S_s = 0.27 S_1 = 0.09
Design Spectral Response Acceleration Parameters: S_{DS} = 0.285 S_{D1} = 0.144
Seismic Design Category (IBC Tables 1613.2.5.1 and 1613.2.5.2): Category C
Basic Seismic Force Resisting System: Light-frame walls sheathed with wood structural panels + Ordinary reinforced masonry shear walls
Design Base Shear (ASCE 7 Chapter 12): 13.4 KIPS
Seismic Response Coefficient(s) (ASCE 7): C_s = 0.044
Response Modification Factor(s) (ASCE 7): R = 6.5
Analysis Procedure: Equivalent Lateral Force (ELF)

ARCHITECTURAL-MECHANICAL-ETC. LOADS

Provide as applicable: architectural items, mechanical, plumbing, etc. (ASCE 7) N/A

SPECIAL LOADS

Provide as applicable: abnormal items, moving loads, impact, hoisting, etc. (ASCE 7) N/A

*IBC Chapter 16 and ASCE 7 -- Information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

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TABLE 9 PLUMBING INFORMATION

WATER SYSTEM: Service Line Size: Existing (unchanged) Inches
Peak Flow: _____ GPM Total Demand: _____ No. Fixture Units

SANITARY SEWER SYSTEM: Loading: Existing (unchanged) GPD
Service Line Size: _____ Inches Slope: _____ min inches/ft

MINIMUM PLUMBING FIXTURES REQUIRED BY OCCUPANCY (IPC Section 403 & Table 403.1)

All Occupancy Classification(s) (same as OSE Table 3): A-3 Lecture Hall
Total Building Design Occupant Load (same as OSE Table 5): 107

1. Occupancy: A-3	Total Load for this Occupancy: 107	Male: 54 Female: 54
Water Closets/ Urinals (IPC Section 424.2):	MALE: 125.00 (# Urinals allowed ____)	FEMALE: 65.00
Lavatories:	MALE: 200.00	FEMALE: 200.00
Drinking Fountains		1.00
Unisex Toilet		____
Service Sink		1.00
Other (list)		____
2. Occupancy: _____	Total Load for this Occupancy: ____	Male: ____ Female: ____
Water Closets/ Urinals (IPC Section 424.2):	MALE: ____ (# Urinals allowed ____)	FEMALE: ____
Lavatories:	MALE: ____	FEMALE: ____
Drinking Fountains		____
Unisex Toilet		____
Service Sink		____
Other (list)		____
3. Occupancy: _____	Total Load for this Occupancy: ____	Male: ____ Female: ____
Water Closets/ Urinals (IPC Section 424.2):	MALE: ____ (# Urinals allowed ____)	FEMALE: ____
Lavatories:	MALE: ____	FEMALE: ____
Drinking Fountains		____
Unisex Toilet		____
Service Sink		____
Other (list)		____

TOTAL BUILDING COUNT REQUIRED/PROVIDED (add all occupancies)

Note: Round up all numbers Whole numbers only	REQUIRED Male	REQUIRED Female	PROVIDED Male	PROVIDED Female
Total Water Closets/ Urinals	1.00 (# Urinals allowed ____)	1	1.00 (# Urinals provided 1)	2
Total Lavatories	1.00	1	2.00	2
Total Drinking Fountains	1.00		1	
Total Unisex Toilets	____		____	
Total Service Sinks	1.00		1	
Total Other (list): ____	____		____	

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TABLE 10 MECHANICAL INFORMATION

AIR COMFORT SYSTEMS

Overall Thermal Transfer Value (OTTV): 0.022 BTU/(HR x °F x SF)
Building Cooling Load: 205.0 SF / Ton
Building Heating Load: 41.1 BTU/(HR x SF)

OTHER LOADING FEATURES

Glass: U Factor: 0.34 Window to wall ratio: 34%
Insulation Values: Roof: R-38 Exterior Walls: U Factor = 0.304

Outside Air minimum while occupied: 845 CFM 60 Occupants

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

Briefly describe mechanical system: A pad-mounted packaged heat pump, with built-in modulating economizer for ventilation, and using insulated supply and return ducts is conditioning the proposed spaces.

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TABLE 11 - ELECTRICAL INFORMATION

SERVICE TRANSFORMER: ☒ By Utility Company ☐ By Agency If by Agency: ____ KVA Primary ____ Voltage/Phase

ELECTRICAL SERVICE INFORMATION:

Service Voltage/Phase: 240 V/ 120 Amperes: 400
Service Entrance Conductors Size: 500 Quantity per Phase: 1
Total Connected Load: 78.9 KVA Estimated Demand Factor: .98
Estimated Maximum Demand: 329 Amperes
Available Fault Current in Symmetrical Amperes: 40,000 Amperes
Interrupting Capacity of Service Overcurrent Device: 100,000 Amperes
Grounding Electrode System Components:
☐ Metal In-ground Support Structure(s) ☐ Metal Underground Water Pipe
☐ Ground Ring ☐ Concrete-Enclosed Electrode
☐ Plate Electrodes ☒ Rod and Pipe Electrodes
☐ Other Listed Electrodes, please specify ____ ☐ Other Local Metal Underground Systems or Structures

EMERGENCY SERVICE INFORMATION:

Generator 1: ☐ Emergency ☐ Standby ☐ Op. Standby ____ Voltage/Phase ____ Fuel ____ KVA
Generator 2: ☐ Emergency ☐ Standby ☐ Op. Standby ☐ Integral Battery ____ Fuel ____ KVA
Exit/Emergency Egress Lighting Backup Power ☒ Battery ☐ Generator
Fire Alarm System: ☐ Manual ☐ Auto ☐ Manual/Auto ☐ Addressable Class: ☐ A ☐ B ☐ ____(Other)
Fire Alarm System Method of Communication to Monitoring Station (please specify): ____.
Fire Alarm Pathway Survivability: ☐ Level 0 ☐ Level 1 ☐ Level 2 ☐ Level 3
Carbon Monoxide Detection Required? ☐ Yes ☒ No
Carbon Dioxide Detection Required? ☐ Yes ☒ No

LIGHTNING PROTECTION SYSTEM PROVIDED: ☐ Yes ☒ No

Required Inspections Schedule

Code Ref.	Inspection Type	Scope / Items Verified	Frequency / Timing
CHAPTER 1 — REQUIRED INSPECTIONS (IBC 110)			
110.3.9	Energy Efficiency Inspection(s)	Determine compliance with ASHRAE 90.1 Appendix G (performance path):	At completion to confirm installed equipment/systems comply, or as required by Building Official.
110.3.12	Final Inspection	Overall verification that the completed project conforms to approved construction documents and all applicable code provisions. Prerequisite for issuance of Certificate of Occupancy (CO).	Once – at project completion, after all other required inspections have been approved and all work is complete.
CHAPTER 17 — SPECIAL INSPECTIONS			
1705.2–1705.20	Special Inspections	Project scope does not trigger any of the conditions listed in IBC §1705 (e.g., no high-strength concrete, no structural steel with demand-critical welds, no seismic/wind design categories requiring special inspection, etc.).	N/A

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OSE CODE TABLES & REQUIRED INSPECTIONS SCHEDULE

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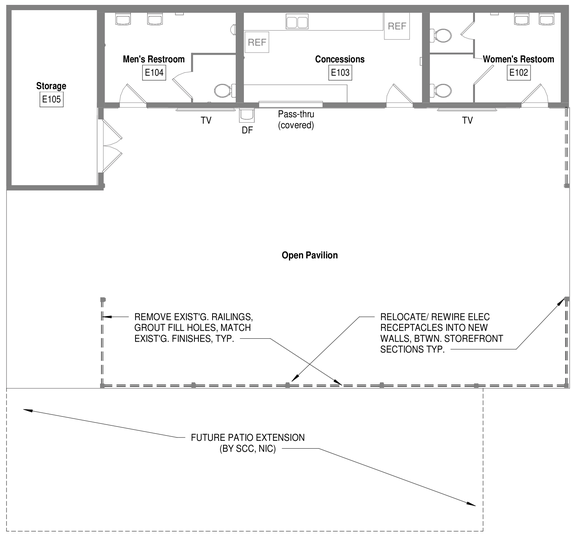
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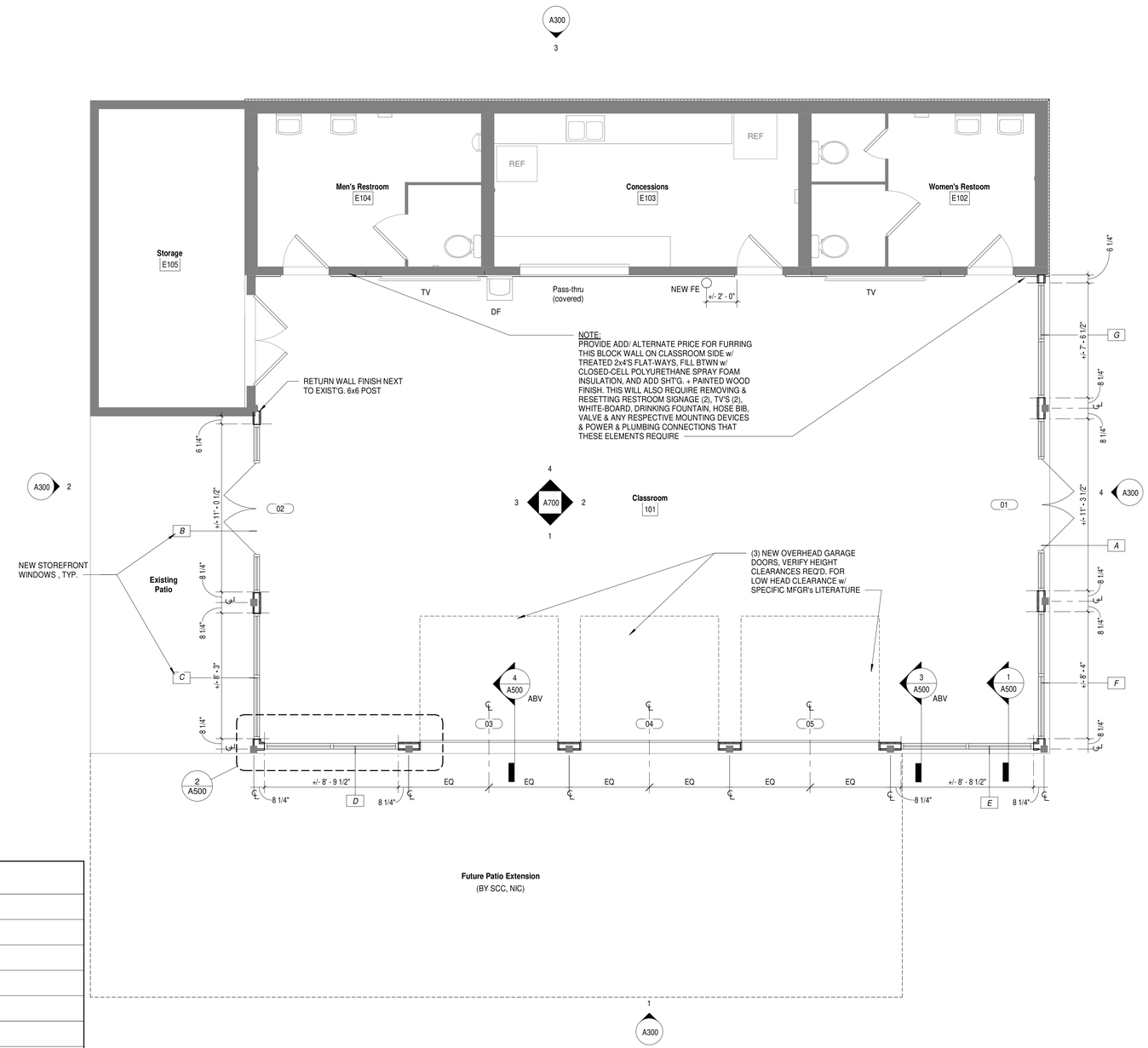
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G102



1 A100 **FLOOR PLAN - DEMOLITION**

1/8" = 1'-0"



2 A100 **FLOOR PLAN - RENOVATION**

1/4" = 1'-0"

EXISTING PAINT COLORS FOR REFERENCE

Restrooms primary walls: Sherwin Williams SW7713 Tawny Tan, semi-gloss
Restrooms accent wall: Sherwin Williams SW6256 Serious Gray, semi-gloss
Kitchen primary walls: Sherwin Williams SW7713 Tawny Tan, semi-gloss
Kitchen accent wall: Sherwin Williams SW6966 Blueblood, semi-gloss
Doors & Frames: Sherwin Williams SW7713 Tawny Tan, semi-gloss
Ceilings, Wood trim & Posts: Sherwin Williams SW7520 Dark Brown, satin

FINISH LEGEND

MARK	*DESCRIPTION*	*NOTES*	*COMMENTS*
FLOORS			
CONC	*EXISTING SEALED CONCRETE*	-	-
BASE			
B-1	*TREATED 1x8 WOOD BASE*	*PAINT; COLOR TO MATCH EXISTING, SW7520 DARK BROWN*	-
WALLS + CEILINGS			
W-1	*SMOOTH PAINT-GRADE PLYWOOD PANELING*	*PAINT; COLOR TO MATCH EXISTING, SW7520 DARK BROWN*	*COVER JOINTS w/ LATTICE STRIPS TO MATCH EXISTING, PAINTED TO MATCH EXISTING, SEE INTERIOR ELEVS*

GENERAL NOTES:
1. *FINAL SELECTIONS TO BE CONFIRMED & COORDINATED WITH OWNER.*
2. *MATCH EXISTING TRIM AND CASEWORK PAINT TYPE (OIL OR LATEX) THROUGHOUT, U.N.O.*

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	FLOOR BASE	WALLS	CEILING MATERIAL	CEILING FINISH	COMMENTS
101	Classroom	Ex Sealed Conc	New Wd- Paint	New Wood- Paint	Ex. Wood	Ex. Paint	Match existing paint on woodwork: Sherwin Williams SW7520, Dark Brown

NOTES:
1. *FINAL ROOM FINISHES TO BE CONFIRMED & COORDINATED WITH OWNER*

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DEMO AND RENOVATION FLOOR PLANS, FINISHES

SEAL & SIGNATURE:





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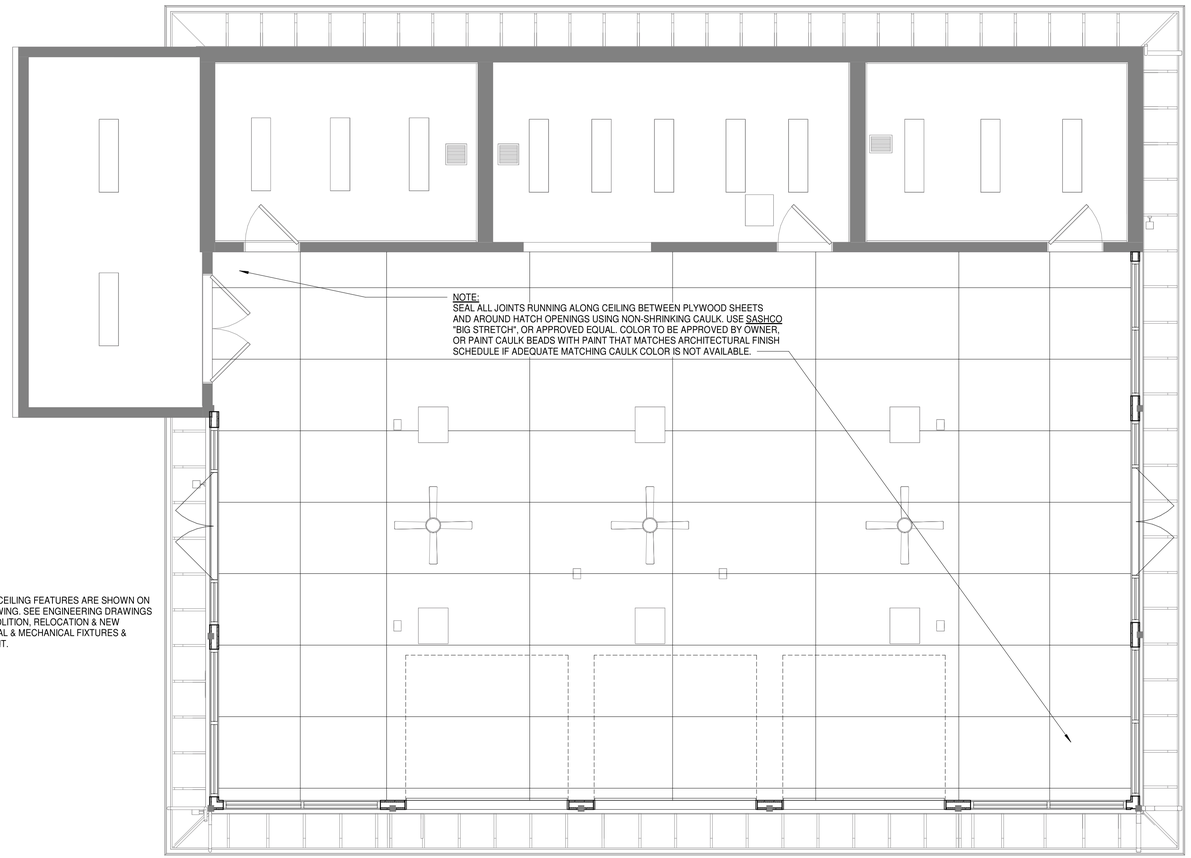
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A100



NOTE:
EXISTING CEILING FEATURES ARE SHOWN ON THIS DRAWING. SEE ENGINEERING DRAWINGS FOR DEMOLITION, RELOCATION & NEW ELECTRICAL & MECHANICAL FIXTURES & EQUIPMENT.

1 / A200 **ARCHITECTURAL RCP**

1/4" = 1'-0"

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No. 8288
5/1/26
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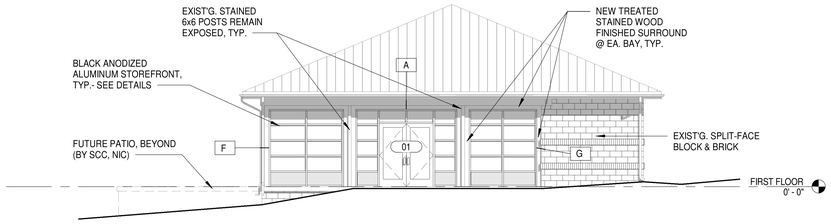
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DATE: 5/01/26

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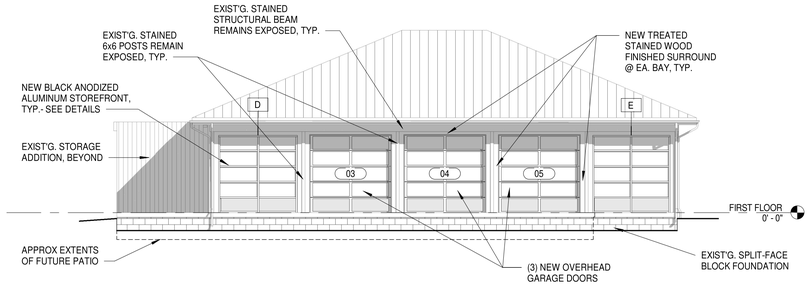
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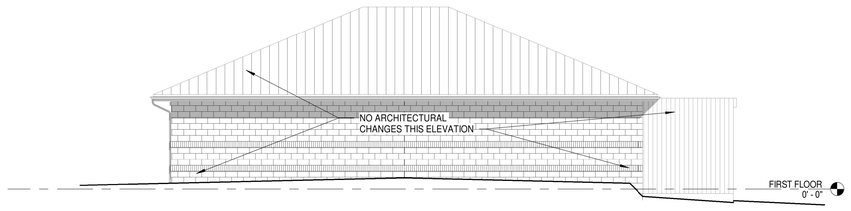
4 A300 **RIGHT SIDE ELEVATION**

1/8" = 1'-0"



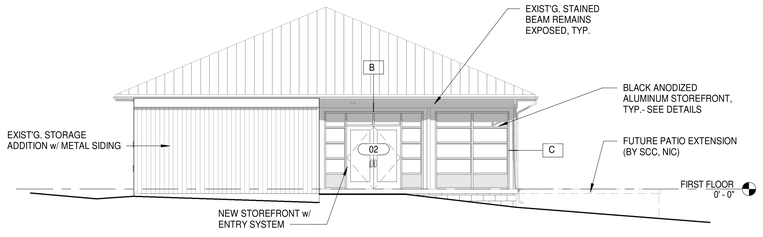
1 A300 **FRONT ELEVATION**

1/8" = 1'-0"



3 A300 **REAR ELEVATION**

1/8" = 1'-0"



2 A300 **LEFT SIDE ELEVATION**

1/8" = 1'-0"

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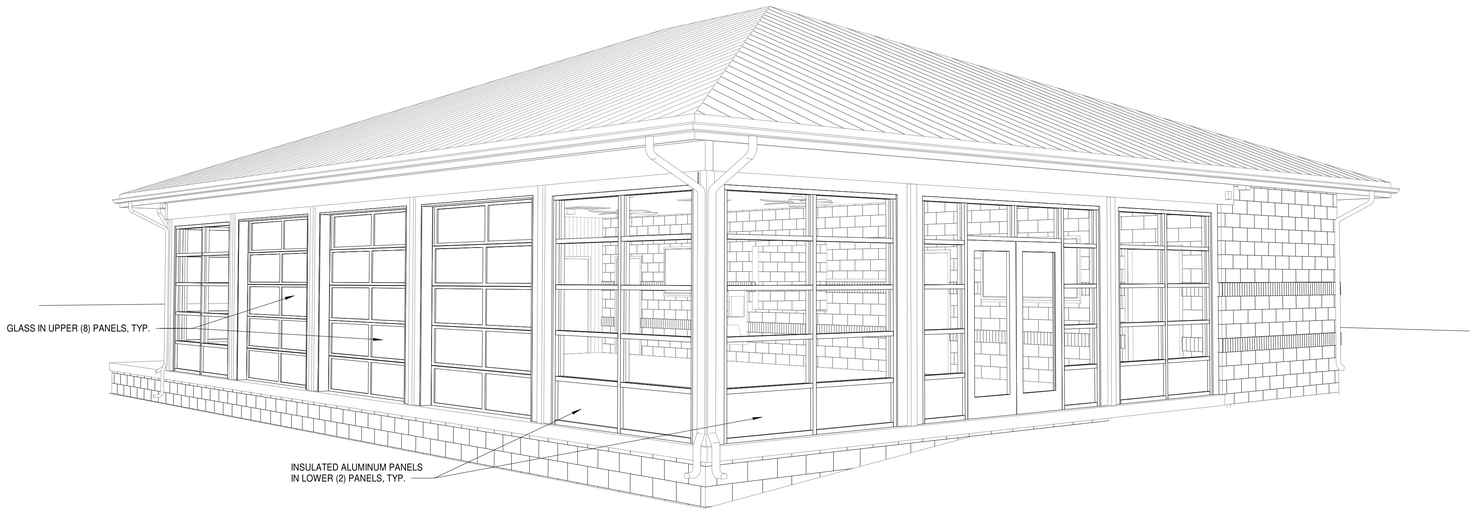
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A300



1 A400 **LEFT PERSPECTIVE VIEW**



2 A400 **RIGHT PERSPECTIVE VIEW**

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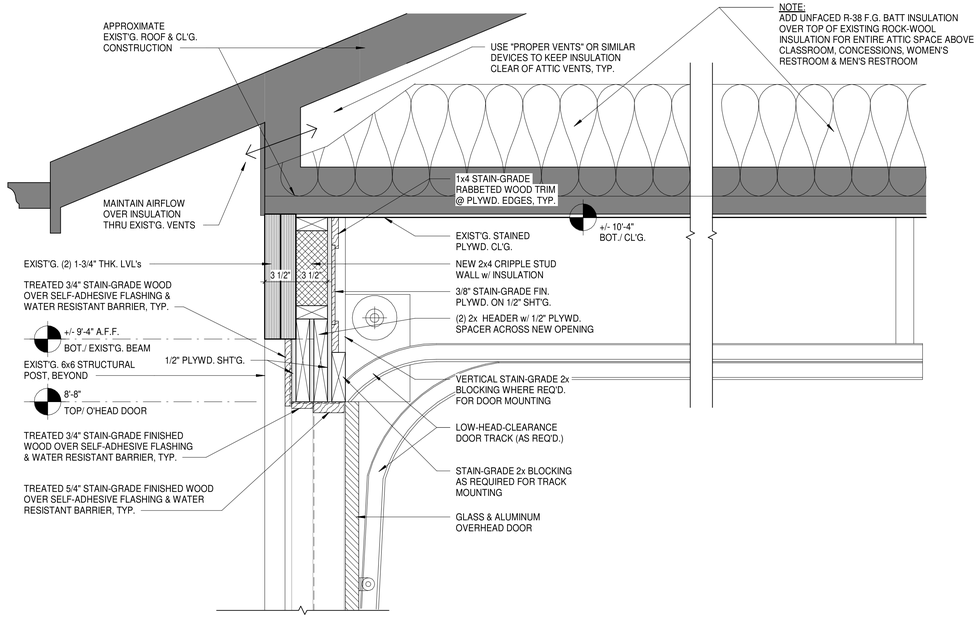
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DATE: 5/01/26

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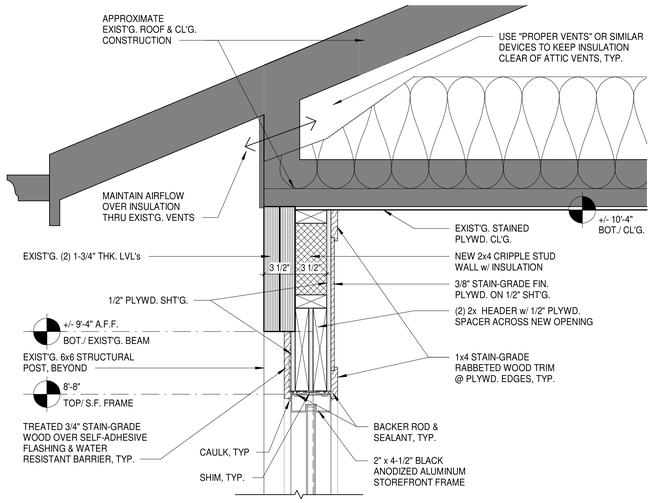
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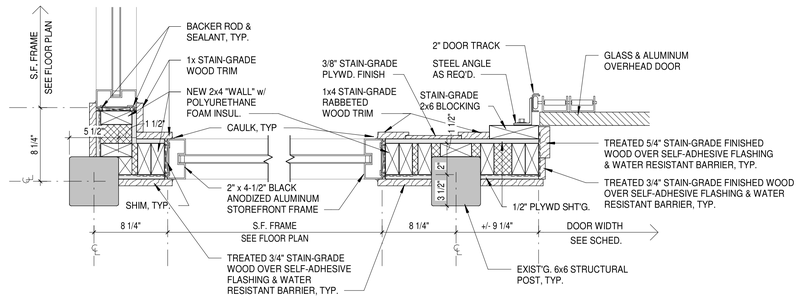
4 A500 **HEAD DETAIL - OVERHEAD SECTIONAL DOOR**

1 1/2" = 1'-0"



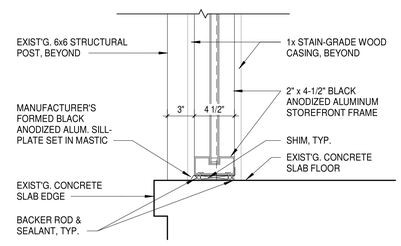
3 A500 **HEAD DETAIL - STOREFRONT**

1 1/2" = 1'-0"



2 A500 **CORNER DETAIL w/ JAMBS- STOREFRONT & OVERHEAD SECTIONAL DOOR**

1 1/2" = 1'-0"



1 A500 **SILL DETAIL - STOREFRONT**

1 1/2" = 1'-0"

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ARCHITECT

TEAGUE STUDIO
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ph: 864.310.4327 | www.studioteague.com

PROJECT NAME:

SCC- GILES CAMPUS HORTICULTURE PAVILION RENOVATION

PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

DETAILS

SEAL & SIGNATURE:

STATE OF SOUTH CAROLINA — TEAGUE STUDIO, LLC SPARTANBURG, SC No. 101458 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MEGHAN C. TEAGUE Spartanburg, SC No. 8288 — REGISTERED ARCHITECT

DRAWN BY: RRB

CHECKED BY:

DATE: 5/01/26

100% CONSTRUCTION SET

DRAWING NO.:

A500

DOOR & STOREFRONT SPECIFICATIONS

STOREFRONT

Oldcastle Building Envelope FG3000T thermally broken 2" x 4 1/2" center-set storefront system or approved equal. Black anodized aluminum finish. Glazing: 1" clear insulating glass w/ SN68 Low-E coating on #2 surface, tempered per code for all glass sections. Provide solid, insulated bottom panels for each section w/ black anodized aluminum finish, typical. Furnish cut sheets to provide exact dimensions to owner. Installer to provide framing diagram by field measurements w/ site visit and install storefront systems in accordance w/ approved shop drawings and the manufacturer's printed instructions. Dimensions of openings listed on architectural drawings for each storefront section should be field verified for height & width.

STOREFRONT DOORS

(DOORS- No.01 & No.02)

Nominal 6'-0" wide x 7'-0" high, High-traffic, heavy duty, 1 3/4" thk., Wide-stile full-glass storefront entry doors w/ ADA 10" tall bottom rail. Black anodized aluminum finish. Glazing: 1" clear insulating glass w/ SN68 Low-E coating on #2 surface, tempered per code. See plans for adjoining storefront frame sections

OVERHEAD SECTIONAL DOORS

(DOORS- No.03, No.04 & No.05)

Nominal 9'-0" wide x 8'-8" high, manually operated black anodized aluminum sectional doors w/ perimeter weatherstripping, standard 3 1/2" bottom astragal & 4.5" wide single end stiles. Doors to be (5) sections high, x (2) panels wide. Bottom (2) panels to be solid, insulated panels w/ black anodized aluminum finish to match frames. Upper (8) panels to be glazed w/ 1/8" clear glass w/ Low-E coating & tempered per code. There are no exhaust ports. Provide min 2" track assemblies, (2) inside slide-locks per door (one lock per end), standard cycle spring counterbalance, 10,000 cycle spring. Standard 5-year materials and 1-year workmanship warranties. Manufacturer's qualifications: minimum 10 years of documented experience and minimum 5 years of documented experience for installer authorized by door manufacturer for installer qualifications. Furnish cut-sheets to provide exact dimensions to owner. Installer to provide framing diagram by field measurements made on site visit and install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions. Dimensions of existing building listed on architectural drawings should be field verified for height & width. Acceptable Manufacturers: Clopay, Raynor, CHI & Overhead Door Corp. or approved equal.

DOOR HARDWARE SETS

HARDWARE SET 'A'

(DOORS- No.01 & No.02)

QTY.	DESCRIPTION
1	FM300 BSP Continuous hinge
1	FM300 BSP x Power transfer prep @ 40" C/L AFF
1	PED5257 x T3757ET SN200 MELR BIPS BOE M52 M48 CT6D BSP/630 Classroom Exit Device
1	PED5210 EO BSP/630 exit device
1	CR8000 60 Keyway. Cylinder to match Owner's Key System
1	CR972 KM CT6D Keyed Mullion (Black)
1	CR8000 60 Keyway. Cylinder to match Owner's Key System
2	DC 6210 A11 M77 693 Closer
1	EL-CEPT BSP Power Transfer (Active Leaf Only)
1	QC-C1500P Electrolynx Cables (Power Transfer to Junction Box above Ceiling)
1	QC-C1500P Electrolynx Cables (Power Transfer to Card Reader)
1	QC-C012 Electrolynx Cables (Power Transfer to End of Exit Device)
1	171 BSP ADA Threshold
2	18061 BSP NB Sweep. Weatherstripping by Storefront Vendor

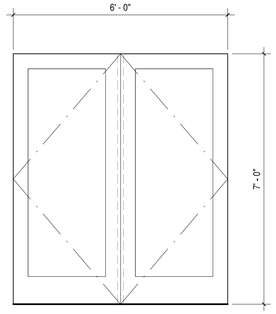
HARDWARE SET 'B'

(DOORS- No.03, No.04 & No.05)

QTY.	DESCRIPTION
# AS REQ	Manual Pull Rope Operation
2 SETS	2" Track
# AS REQ	Full Perimeter Weatherstripping
1	Standard Bottom Astragal
# AS REQ	Standard Cycle Spring Counterbalance 10,000 Cycle Spring
2	Inside Slide Locks Per Door

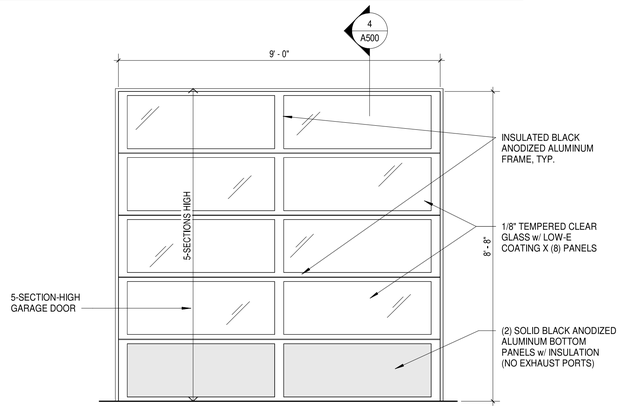
DOOR SCHEDULE

DOOR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	HARDWARE TYPE	HARDWARE NOTES	COMMENTS
01	PAIR 3' - 0"	7' - 0"	A	SET A	SEE SETS THIS SHEET	SEE SPECS THIS SHEET
02	PAIR 3' - 0"	7' - 0"	A	SET A		
03	9' - 0"	8' - 8"	B	SET B		
04	9' - 0"	8' - 8"	B	SET B		
05	9' - 0"	8' - 8"	B	SET B		



TYPE 'A' DOORS (No.01 & No.02)

EXTERIOR FULL LITE OUTSWINGING DOUBLE STOREFRONT ENTRY DOORS w/ 1" TEMPERED CLEAR INSULATING GLASS w/ SN68 LOW-E COATING ON #2 SURFACE. DOORS TO HAVE WIDE STILES, 10" BOTTOM RAIL & KEYED CENTER MULLION; BLACK ANODIZED ALUMINUM TO MATCH BLACK ANODIZED ALUMINUM STOREFRONT FRAME

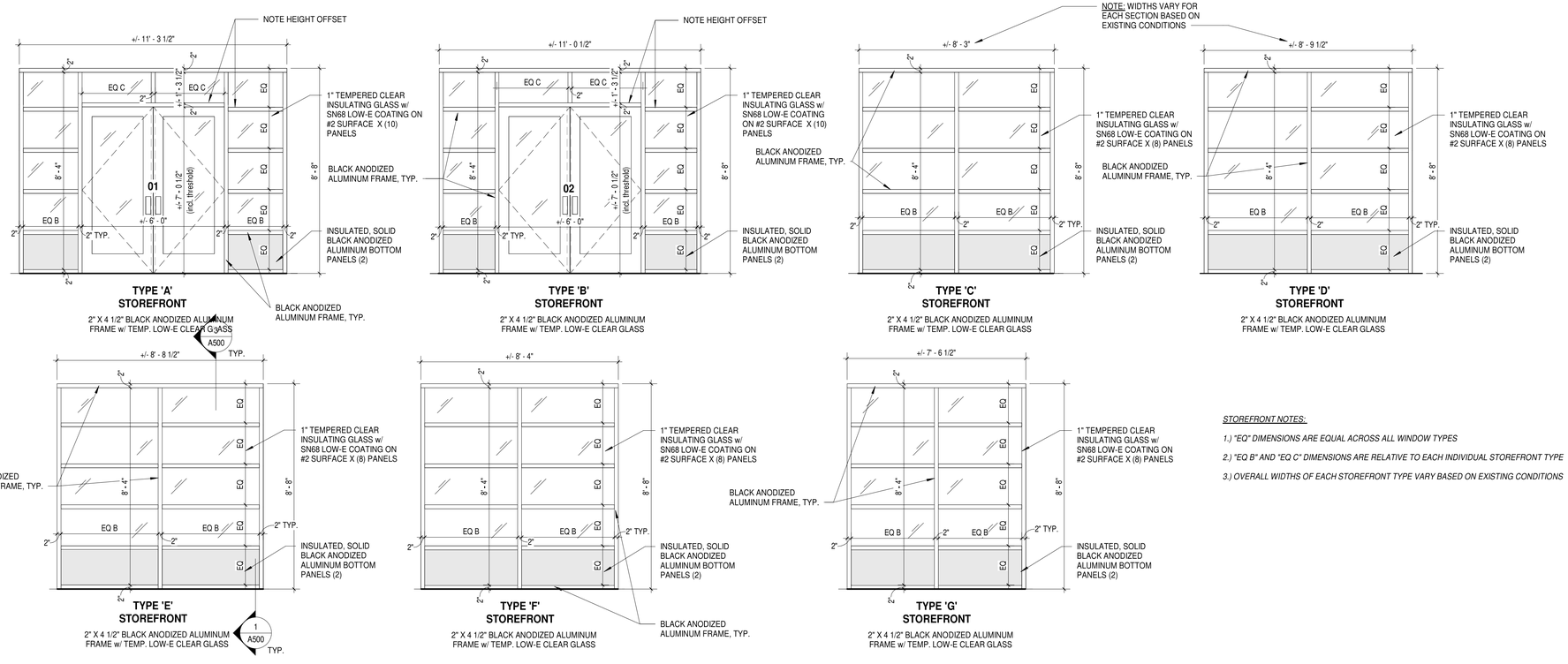


TYPE 'B' DOORS (No.03, No.04 & No.05)

COMMERCIAL ALUMINUM & GLASS SECTIONAL OVERHEAD GARAGE DOOR; INSULATED BLACK ANODIZED ALUMINUM FRAME w/ TEMPERED CLEAR GLASS w/ LOW-E COATING

TS_DOOR TYPE LEGEND

1/2" = 1'-0"



STOREFRONT NOTES:

1.) "EQ" DIMENSIONS ARE EQUAL ACROSS ALL WINDOW TYPES

2.) "EQ B" AND "EQ C" DIMENSIONS ARE RELATIVE TO EACH INDIVIDUAL STOREFRONT TYPE

3.) OVERALL WIDTHS OF EACH STOREFRONT TYPE VARY BASED ON EXISTING CONDITIONS

STOREFRONT TYPES

SCALE: 3/8" = 1'-0"

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PROJECT NAME:

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PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

DOOR & WINDOW SCHEDULES, ELEVATIONS & SPECIFICATIONS

SEAL & SIGNATURE:

STATE OF SOUTH CAROLINA — TEAGUE STUDIO, LLC SPARTANBURG, SC No. 101458 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — MEGHAN C TEAGUE Spartanburg, SC No. 8288 — REGISTERED ARCHITECT

DRAWN BY: RRB

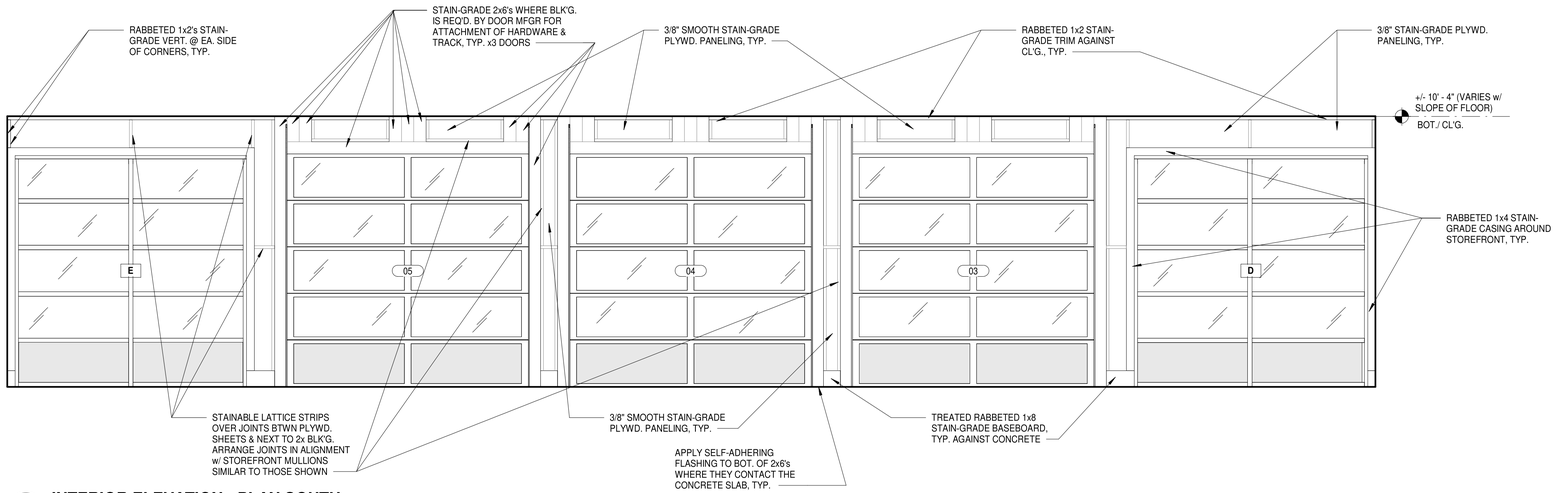
CHECKED BY:

DATE: 5/01/26

100% CONSTRUCTION SET

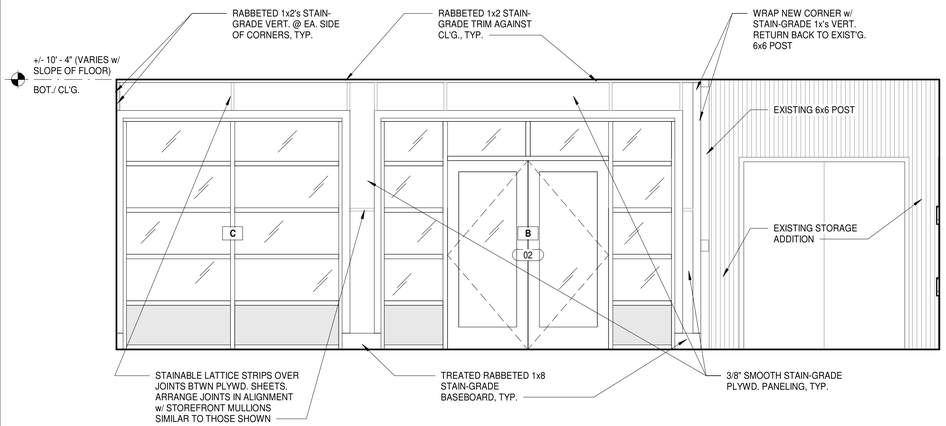
DRAWING NO.:

A600



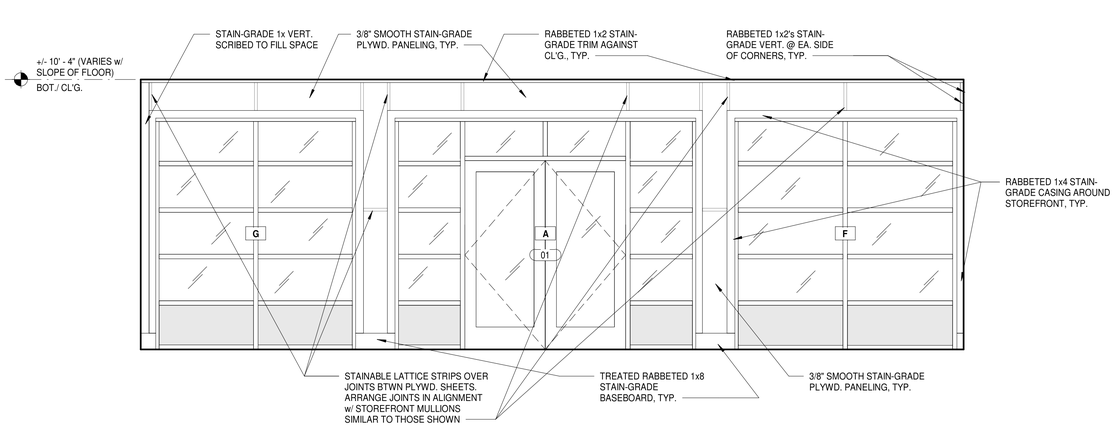
1 / A700 **INTERIOR ELEVATION - PLAN SOUTH**

3/8" = 1'-0"



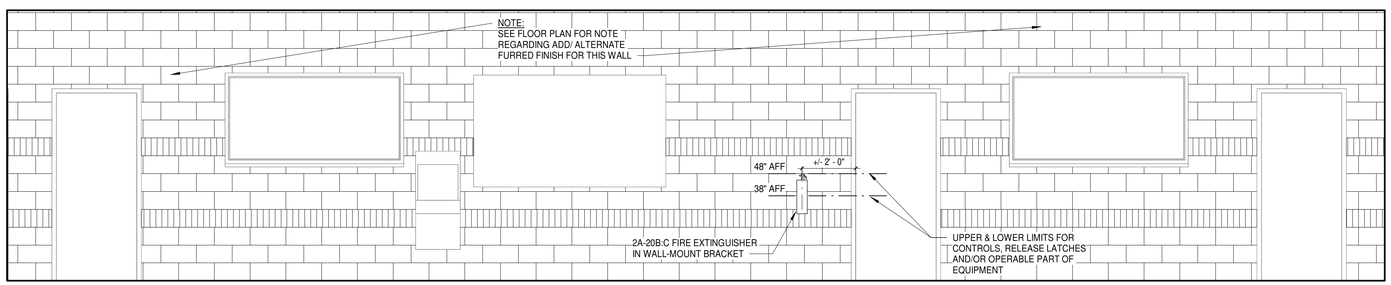
3 / A700 **INTERIOR ELEVATION - PLAN WEST**

3/8" = 1'-0"



2 / A700 **INTERIOR ELEVATION - PLAN EAST**

3/8" = 1'-0"



4 / A700 **INTERIOR ELEVATION - PLAN NORTH**

3/8" = 1'-0"

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DRAWING TITLE:

INTERIOR ELEVATIONS

SEAL & SIGNATURE:

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STATE OF SOUTH CAROLINA — MEGHAN C TEAGUE Spartanburg, SC No. 8288 — 5/1/26 — REGISTERED ARCHITECT

DRAWN BY: RRB

CHECKED BY:

DATE: 5/01/26

100% CONSTRUCTION SET

DRAWING NO.:

A700

CONSTRUCTION AND EQUIPMENT INSTALLATION GENERAL NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE STATE AND LOCAL CODES, INCLUDING SOUTH CAROLINA DEPARTMENT OF ADMINISTRATION-OFFICE OF THE STATE ENGINEER.

DRAWINGS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

COORDINATE WITH ALL TRADES PRIOR TO THE INSTALLATION OF ANY DUCTWORK OR REFRIGERANT PIPING.

LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. PROVIDE EQUIPMENT SERVICE CLEARANCES PER MANUFACTURER(S).

OWNER WILL DESIGNATE AN AREA ON SITE WHERE CONTRACTOR MAY PLACE STORAGE CONTAINERS DURING CONSTRUCTION.

ALL MATERIALS REMOVED FROM THE SITE MUST FOLLOW RECYCLING AND WASTE DISPOSAL SPECIFICATIONS.

CONTRACTOR(S) TO PROVIDE ALL MISC. MATERIALS REQUIRED FOR FULLY OPERABLE TURN-KEY SYSTEM.

MAINTAIN A MINIMUM OF 8' CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES.

PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE, IF APPLICABLE.

SOLVENTS, PAINTS, ADHESIVES, SEALANTS AND OTHER BUILDING MATERIALS THAT EMIT POLLUTANTS THAT COULD CAUSE IRRITATION OR HEALTH PROBLEMS WILL REQUIRE ADEQUATE VENTILATION DURING CONSTRUCTION TO KEEP THE CONCENTRATIONS OF POLLUTANTS WITHIN EPA/OSHA APPROVED LIMITS. THE CONTRACTOR SHALL ALLOW FOR THE "BAKE-OUT" OF THE BUILDING BEFORE OCCUPANCY IN SUCH A WAY AS NOT TO DAMAGE COMPLETED WORK DUE TO TEMPERATURE AND HUMIDITY EXTREMES.

ANY MODIFICATIONS TO THE DESIGN NECESSITATED BY A MATERIAL SUBSTITUTION SOUGHT BY CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MATERIALS, FINISHES, AND ELEMENTS (BOTH INTERIOR AND EXTERIOR) OF THE EXISTING BUILDING AND ITS GROUNDS. CONTRACTOR(S) TO PROTECT ADJACENT WORK AREAS AND FINISH SURFACES DURING INSTALLATION.

ANY DISTURBANCES TO SITE IMPROVEMENTS SUCH AS SIDEWALKS, DRIVEWAYS, PLANTINGS, AND OTHER SITE IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION. ALL REPAIRS SHALL BE MADE BY THE APPROPRIATE TRADES TO THE SATISFACTION OF THE OWNER AND ENGINEER/OWNER'S REPRESENTATIVE.

THE CONTRACTOR AND ITS SUB-CONTRACTORS ARE TO FULLY REVIEW AND UNDERSTAND THE SCOPE OF WORK FOR THE PROJECT AS DEFINED IN THESE CONSTRUCTION DOCUMENTS.

ALL AREAS SHALL BE PLACED IN A CLEAN, SAFE CONDITION AT THE END OF EACH WORKING DAY.

CONTRACTOR SHALL SUBMIT NOTICE OF SUBSTANTIAL COMPLETION IN WRITING TO OWNER FOR APPROVAL. PROJECT SHALL BE DEEMED SUBSTANTIALLY COMPLETE WHEN ALL MAJOR EQUIPMENT IS INSTALLED AND FUNCTIONING AS INTENDED.

18. CONTRACTOR TO REFERENCE SPECIFICATION SECTION 01 74 19 FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL.

CONCRETE PAD GENERAL NOTES

19. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO GENERAL NOTES 415 ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.
20. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES AT THE CENTER. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.

DUCTWORK & GENERAL HVAC NOTES

21. ALL DUCTWORK SHALL BE MANUFACTURED AND INSTALLED TO THE LATEST SMACNA STANDARDS. ALL DUCTWORK SHALL BE CONSTRUCTED TO SMACNA +/- 2 INWC OR HIGHER. NO SNAP-LOCK.
22. ALL DUCTWORK SHALL BE INSULATED PER THE 2012 SOUTH CAROLINA ENERGY CONSERVATION CODE.
23. FLEXIBLE DUCT SHALL BE SUPPORTED AND BRACED TO MAXIMIZE AIRFLOW, PER LATEST SMACNA STANDARDS.
24. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
25. SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR DUCT OR EXHAUST DUCT AS SPECIFIED IN MECHANICAL DRAWINGS.
26. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
27. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
28. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS.
29. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
30. DUCT TAPS MUST BE 2" SMALLER THAN THE MAIN DUCT.
31. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO EQUIPMENT IN ALL DUCTWORK SYSTEMS.
32. ALL 90-DEGREE SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE RADIUS TURNING VANES.
33. PROVIDE ACCESS DOORS TO ALL FIRE DAMPERS, SMOKE DAMPERS, SMOKE DETECTORS, VOLUME DAMPERS, MOTOR-OPERATED DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK REQUIRING ACCESS.
34. DUCTWORK SHALL BE KEPT CLEAN OF DEBRIS DURING INSTALLATION. TEMPORARY HEPA FILTERS SHALL BE USED ON RETURN GRILLES DURING CONSTRUCTION TO PREVENT THE INTRODUCTION OF DEBRIS INTO DUCTWORK.
35. PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES.
36. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.
37. RETURN AIR SHALL NOT BE TAKEN FROM A CLOSET, BATHROOM, TOILET ROOM, OR UNCONDITIONED ATTIC.
38. PROVIDE PREFABRICATED INSULATED EQUIPMENT SUPPORT CURBS IF APPLICABLE. FLASH WITH SHEET METAL AND TRIM WITH ROOFING AND SEALANT TO MATCH EXISTING ROOFING. FOR ALL PIPING PENETRATIONS PROVIDE FLASHING COLLARS AND TRIM WITH ROOFING AND SEALANT TO MATCH EXISTING ROOFING.
39. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50. ALL EQUIPMENT LOCATED WITHIN THE PLENUM SHALL BE PLENUM-RATED.
40. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE CAULKED WITH 3M FIRESTOP OR APPROVED EQUAL.
41. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, AND PIPED TO NEAREST DRAIN IF APPLICABLE.
42. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
43. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO OTHER EQUIPMENT.
44. TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.

VENTILATION SCHEDULE - HP - 1

OCCUPANCY CLASSIFICATION	AREA S.F.	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE CFM/PERSON	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE CFM/S.F.	Max # Occupants Given by Owner	PEOPLE	OUTSIDE AIRFLOW REQUIRED CFM/PERSON	OUTSIDE AIRFLOW REQUIRED CFM/S.F.	Make-up air from Exhaust Fans	Total CFM
CLASSROOM	1571	7.5	0.06	60	60	450	94	0	545
KITCHEN	202	7.5	0.06	1	1	8	12	0	20
MEN'S BATHROOM	148	N/A	N/A	N/A	N/A	0	0	140	140
WOMEN'S BATHROOM	148	N/A	N/A	N/A	N/A	0	0	140	140
					SYSTEM	UNCORRECTED OUTSIDE AIR REQUIRED CFM	VENTILATION EFFECTIVENESS Ez	CORRECTED OUTSIDE AIR REQUIRED CFM	OUTSIDE AIR PROVIDED CFM
EQUIPMENT CORRECTED CFM					HP - 1	845	1	845	845

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H59-N385-PD

DRAWING TITLE:

MECHANICAL NOTES & VENTILATION SCHEDULE

SEAL & SIGNATURE:

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22723 MATTHEW M. PESSE

5/1/26

DRAWN BY: PD

CHECKED BY: LJ & MP

DATE: 5/01/26

100% CONSTRUCTION SET

DRAWING NO.:

M-0.01

PACKAGED ROOFTOP UNITS

Fan Data		Cooling Performance							EH + HP Performance				Electrical Data					
ACFM	ESP (IWG)	TOTAL CAPACITY (BTU/h)	SENSIBLE CAPACITY (BTU/h)	EFFICIENCY (AT AHRI)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	Electric Heat KW	OUTPUT (MBH)	EAT (°F)	LAT (°F)	VOLT/PH/Hz	INDOOR MOTOR HP	Unit FLA	Unit MCA	Unit MOCP	NOTES
4026	1.20	116,672	92,952	15.2 IEER/11.4 EER	80.00	67.00	59.00	57.90	22.5/30	116	47	105.2	208/230/3/60	3.5	113.4/123.1	133/145	150/150	All

1.PROVIDE FACTORY INSTALLED TWO STAGE COOLING
2.PROVIDE FACTORY INSTALLED UNIT CONTROLLER, WITH BACNET COMMUNICATION, CAPABLE OF DEMAND CONTROLLED VENTILATION, ECONOMIZER CONTROL, HUMIDITY CONTROL SEQUENCES, AND TEMPERATURE CONTROL, DAIKIN ILINQ, OR APPROVED EQUAL
3.PROVIDE FACTORY INSTALLED R32 SENSOR
4.PROVIDE FIELD INSTALLED HAIL GUARD
5.PROVIDE FIELD INSTALLED ULTRA LOW-LEAK HORIZONTAL ECONOMIZER W/ ENTHALPY SENSOR FOR DIFFERENTIAL CONTROL
6.CONTRACTOR TO PROVIDE FUSED DISCONNECT SWITCH; SEE ELECTRICAL DRAWINGS/SPECS
7.PROVIDE FACTORY INSTALLED HORIZONTAL DUCT CONNECTIONS
8.PROVIDE WALL MOUNTED PROGRAMMABLE THERMOSTAT, CAPABLE OF 7 DAY SCHEDULING, DISPLAYING/CONTROLLING TEMPERATURE, AND HUMIDITY. DAIKIN MODEL D4272C, OR APPROVED EQUAL.
9.PROVIDE FIELD INSTALLED C02 SENSOR FOR DEMAND CONTROL VENTILATION (WALL MTD)
10.PROVIDE FIELD INSTALLED FILTRATION AT THE UNIT-MERV8
11.PROVIDE DRAIN PAN OVERFLOW SWITCH
12.UNIT WILL BE GROUND PAD MOUNTED
13.PROVIDE SMOKE SENSOR IN RETURN DUCT

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

GRILL SIZE	DESIGN CFM	NECK SIZE	NOTES
18" X 18"		20" DIA	1, 2
18" X 18"	470	14" DIA	1, 2
12 X 12"	215	12" DIA	1, 2
15" X 15"	290	12" DIA	1, 2

2. SEAL EDGES OF GRILLS AGAINST CEILING.

NCE OF OPERATIONS

DURING NORMAL OPERATION, HP-1 SHALL BE ENABLED (ON) AND DISABLED (OFF) BY THE SPACE THERMOSTAT.
HP-1 SHALL BE DISABLED UNLESS PHASE CONVERTER SENDS START SIGNAL INDICATING 3-PHASE POWER IS AVAILABLE.
HP-1 SHALL BE DISABLED BY INTERNAL ALARMS FOR REFRIGERANT LEAK OR OTHER CRITICAL UNIT ISSUES.

HP-1 SHALL OPERATE IN OCCUPIED OR UNOCCUPIED MODE AS DETERMINED BY SCHEDULE PROGRAMMED AT THE LOCAL SPACE THERMOSTAT
WHEN IN OCCUPIED MODE THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY AND MODULATE SPEED TO MAINTAIN DESIGN CFM.
WHEN IN UNOCCUPIED MODE THE SUPPLY FAN SHALL OPERATE INTERMITTENTLY BASED ON A CALL FOR HEATING OR COOLING. WHEN OPERATING THE FAN SHALL MODULATE SPEED TO MAINTAIN DESIGN CFM.

INDOOR SPACE TEMPERATURE SHALL BE CONTROLLED BY THE SPACE THERMOSTAT.

COOLING SETPOINTS SHALL BE
OCCUPIED MODE: 75°F (ADJ)
UNOCCUPIED MODE: 80°F (ADJ)
WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 65°F THE HP SHALL BE IN COOLING MODE.
WHEN IN COOLING MODE HP-1 SHALL INHERENTLY MODULATE COMPRESSORS TO MAINTAIN DISCHARGE AIR TEMPERATURE OF 55°F (ADJ).

HEATING SETPOINTS SHALL BE
OCCUPIED MODE: 70°F (ADJ)
UNOCCUPIED MODE: 65°F (ADJ)

IF SMOKE IS DETECTED, THE ON-BOARD CONTROLLER SHALL SHUT DOWN THE UNIT.

OUTSIDE AIR DEMAND CONTROLLED VENTILATION
WHEN HP-1 IS OFF OR IN THE UNOCCUPIED MODE THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE CLOSED.
WHEN HP-1 IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL BE CONTROLLED TO MAINTAIN CO_2 SETPOINT (1,000 PPM, ADJ) AS SENSED BY THE SPACE CO_2 SENSOR.
WHEN HP-1 IS IN OCCUPIED MODE, IF CO_2 SENSOR IS READING BELOW CO_2 SETPOINT (1,000 PPM, ADJ.), THE OUTSIDE AIR DAMPER SHALL BE SET TO THE VENT MINIMUM DEMAND CONTROLLED VENTILATION POSITION OF 106

WHEN HP-1 IS IN OCCUPIED MODE, IF CO_2 SENSOR IS READING ABOVE CO_2 SETPOINT (1,000 PPM, ADJ.), THE OUTSIDE AIR DAMPER SHALL MODULATE BETWEEN THE VENT MINIMUM DEMAND CONTROLLED VENTILATION POSITION AND THE CODE VENT MINIMUM POSITION OF 845 CFM (ADJ) OF OUTDOOR AIR.
SENSOR IS NOT AVAILABLE, THE OUTSIDE AIR DAMPER SHALL MAINTAIN AT THE CODE VENT MINIMUM POSITION.

WHEN HP-1 IS IN OCCUPIED OR UNOCCUPIED MODE, DEHUMIDIFICATION MODE SHALL BE TRIGGERED WHENEVER SPACE HUMIDITY SENSOR IS ABOVE 60% (ADJ).

HP-1 SHALL BE IN ECONOMIZER MODE WHEN OUTSIDE AIR ENTHALPY IS LESS THAN RETURN AIR ENTHALPY.
IN ECONOMIZER MODE THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE.
OUTSIDE AIR DAMPER POSITION SHALL NOT BE LESS THAN REQUIRED FOR MINIMUM OCCUPIED OUTSIDE AIR CFM OR CO_2 SETPOINT.
IN ECONOMIZER MODE THE EXHAUST DAMPER SHALL BE FULL OPEN. THE EXHAUST FAN SHALL MODULATE SPEED TO MAINTAIN BUILDING PRESSURE SETPOINT OF 0.05" WC (ADJ).

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PROJECT NAME:

SCC- GILES CAMPUS
HORTICULTURE
PAVILION RENOVATION

PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

MECHANICAL
SCHEDULES
& SOO

SEAL & SIGNATURE:

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22723 MATTHEW M. PESCE
5/1/26

DRAWN BY: PD

CHECKED BY: LJ & MP

DATE: 5/01/26

100% CONSTRUCTION SET

DRAWING NO.:

M-0.02

DUCT PENETRATION THROUGH WALL UNDER FIRST COURSE OF CMU BLOCKS. CUT EXISTING BLOCK TO ALLOW FOR DUCT ACCESS. SEAL AND FIRESTOP

CUT CEILING PANELS TO SIZE PER MANUFACTURER INSTRUCTIONS. INSTALL DUCT COLLAR AND ENSURE GRILLS ARE FLUSH. RUN A CONTINUOUS BEAD OF NON-SHRINKING CAULK, SASHCO BIG STRETCH SEALANT, OR APPROVED EQUAL. PROVIDE AND INSTALL INSULATED BLANKET OVER SUPPLY AND

FLEX DUCT PATHS ARE DIAGRAMMATIC AND NOT INTENDED TO BE EXACTLY FOLLOWED. USE SHORTEST RUN OF FLEX DUCT FROM TAKE-OFF TO

COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE PROPER CLEARANCE BETWEEN DUCT, DIFFUSERS, AND LUMINAIRES (TYP).
INSTALL NEW DUCTWORK TO RTU-1 AT INDICATED POINTS OF CONNECTION. SUPPORT ALL EXTERIOR HORIZONTAL DUCTWORK WITH 18" MIRO (4-DSA-18) ADJUSTABLE SUPPORTS PER MANUFACTURER. SUPPORT ALL EXTERIOR VERTICAL DUCTWORK WITH ANGLE IRON OR STRUT SUPPORTS, PRODUCT MUST BY MANUFACTURED FOR THIS PURPOSE AND INSTALLED FOLLOWING MANUFACTURERS INSTRUCTIONS. PROVIDE AND INSTALL WEATHER-PROOF ALUMAGUARD JACKET OUTSIDE. PROVIDE AND INSTALL EXTRUDED POLYSTYRENE OR SIMILAR CELL HARD BOARD INSULATION TO A THICKNESS OF R-8.

ENSURE MIN. 18" O.C. BETWEEN DUCT TAKE-OFFS AND BETWEEN TAKE-OFFS AND DUCT ENDS.

POUR A 4,000 PSI 6" THICK CONCRETE EQUIPMENT PAD WITH A MIN. 4" COMPACTED STONE LAYER BENEATH THE ENTIRE PAD FOR THE HEAT PUMP. ENSURE UNIT WILL SIT WITH AT LEAST 4" OF PAD ON ALL SIDES, OR PER MANUFACTURER IF LARGER. PAD WILL HAVE AT LEAST 3" OF EXPOSURE ABOVE GRADE, PER SC IMC 304.10. FORM WEAKENED-PLANE CONTROL JOINTS IN PAD AT A DEPTH OF ONE-FOURTH (¼) THE CONCRETE THICKNESS. SPACE JOINTS (IN FEET) NO MORE THAN 2-3 TIMES THE SLAB THICKNESS (IN INCHES). LEVEL PAD AND APPLY BROOM FINISH. ENSURE ANY EARTHWORK PERFORMED UNDER PAD IS DONE WHERE THE GROUND HAS BEEN ADEQUATELY COMPACTED TO SUPPORT THE WEIGHT OF THE EQUIPMENT AND HAS

CONTRACTOR TO LOCATE UNDERGROUND UTILITIES BEFORE PERFORMING ANY EARTHWORK OR POURING THE PAD.
INSTALL NEW CEILING HATCH WHICH CLEARS INSTALLED DUCT WORK, FOLLOW SIZE AND CONSTRUCTION OF EXISTING HATCHES. FINAL LOCATION TO

ALL DUCTWORK SIZES ARE INDICATED WITHOUT INSULATION. INTERIOR AND ATTIC RIGID DUCT TO BE INSULATED USING FSK-JACKETED MINERAL FIBER BLANKET TO A THICKNESS OF R-6. SEE DUCT INSULATION SPECIFICATION FOR INSULATION SCHEDULE (TYP).
REPLACE RESTROOM EXHAUST FAN, GREENHECK SP-A250-QD, OR APPROVED EQUIVALENT. EXHAUST FLOW SET TO VENTILATION VALUE. FANS AND LIGHTS ARE TO BE CONTROLLED WITH NEW DUAL TECHNOLOGY OCCUPANCY SWITCH. SEAL HOLE WITH NON-SHRINKING CAULK, SASHCO BIG STRETCH

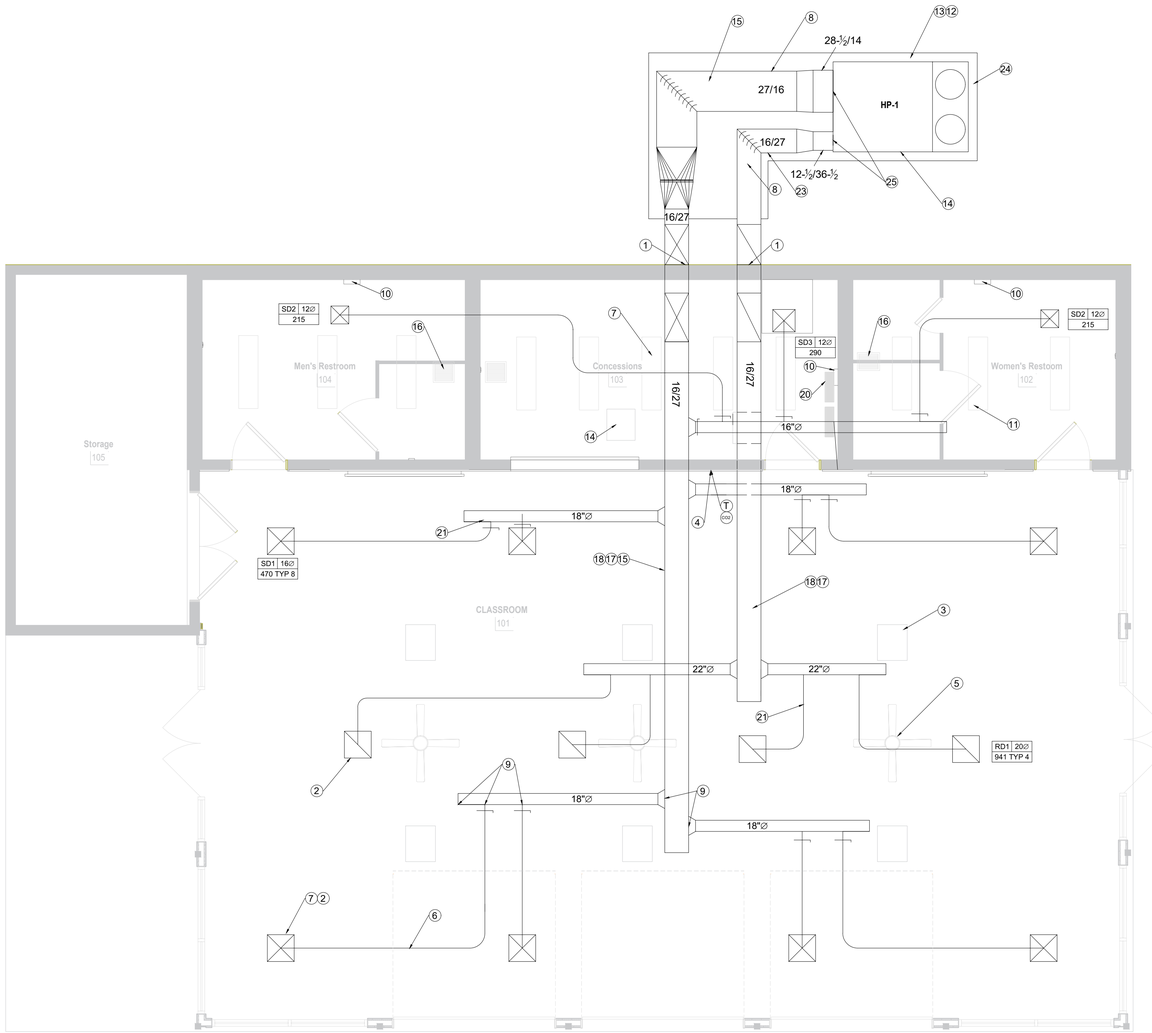
SEAL ALL LONGITUDINAL SEAMS AND TRANSVERSE DUCT JOINTS USING FIBERGLASS MESH TAPE AND MASTIC, OR FOLLOW MANUFACTURER'S
", USE UL-R11374 LISTED SEALING PUTTY, RAINBOW TECHNOLOGY DUCT SEAL PUTTY 795XX, OR APPROVED

REINFORCE RIGID DUCT JOINTS PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS: METAL AND FLEXIBLE.
DO NOT SPLICE FLEXIBLE DUCT UNLESS THE REQUIRED LENGTH IS LONGER THAN THE MAXIMUM LENGTH AVAILABLE. IF OFF-CUTS ARE DESIRED TO BE COMBINED, AUTHORIZATION MUST BE PROVIDED BY ENGINEER, AND SMACNA STANDARDS MUST BE FOLLOWED.

TAB TO BALANCE THE SUPPLY REGISTERS. RETURN REGISTERS ARE NOT BEING BALANCED.

INSTALL SMOKE SENSOR IN RETURN DUCT, PER SC IMC 606. PROVIDE ACCESS DOOR, IF NECESSARY.
INSTALL A CONDENSATE TRAP PER MANUFACTURER'S DIRECTIONS. END OF CONDENSATE DRAIN MUST BE IN A LOCATION WHERE IT ALLOWS FOR

USE UL 181-A RATED TAPE AND MASTIC AS WELL AS APPROPRIATE MECHANICAL FASTENERS ON TRUNK DUCT CONNECTIONS TO HP-1 TO ENSURE A PROPER SEAL. FOLLOW SMACNA STANDARDS AND/OR MANUFACTURERS RECOMMENDATIONS.



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PROJECT NAME:

SCC- GILES CAMPUS HORTICULTURE PAVILION RENOVATION

PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

MECHANICAL
NEW WORK

SEAL & SIGNATURE:

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22723 MATTHEW M. FESSE

5/1/26

DRAWN BY: PD

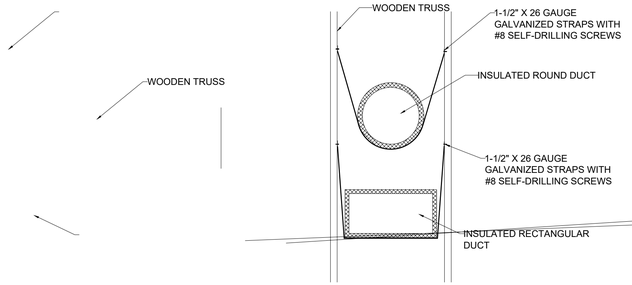
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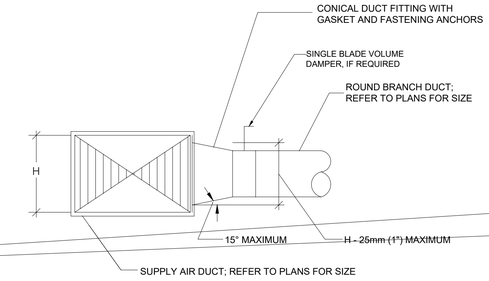
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RIGID DUCT SUPPORT DETAIL

NO SCALE

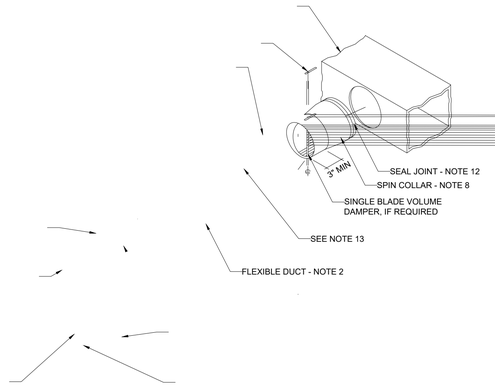


NOTES:

1. CONICAL FITTING SHALL BE BE MECHANICALLY FASTENED AND SEALED PER SPECIFICATIONS. AT A MINIMUM, USE TAPE AND MASTIC ON ALL SEAMS.
2. VOLUME DAMPER TO BE INSTALLED IN OPEN POSITION-FINAL ADJUSTMENT BY TEST&BALANCE CONTRACTOR. IF APPLICABLE.
3. INSTALL LOCKING QUADRANT AND HANDLE ON TOP OF DUCT. PROVIDE EXTENSION ROD TO ACCOMMODATE INSULATION AS NECESSARY, IF APPLICABLE.

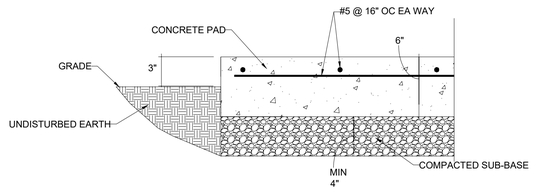
2 RIGID DUCT TAKE-OFF DETAIL

NO SCALE



NOTES:

1. NO INSULATION IS SHOWN AS PART OF THIS DETAIL - SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
2. FLEXIBLE DUCT SHALL BE PRE-INSULATED AS REQUIRED. DUCT SHALL BE INSTALLED, SUPPORTED, AND PERMANENTLY SEALED TO PREVENT KINKING AND SHARP TURNS.
3. SUPPORT INTERVALS MUST FOLLOW MANUFACTURER'S RECOMMENDATION, BUT SHALL BE NO GREATER THAN 4 FEET APART.
4. MAXIMUM SAG SHALL NOT BE MORE THAN $\frac{1}{2}$ INCH PER FOOT BETWEEN THE SUPPORTS.
5. LONG HORIZONTAL DUCT RUNS WITH SHARP BENDS SHALL HAVE AN ADDITIONAL SUPPORT BEFORE AND AFTER THE BEND.
6. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE. SUPPORTS MUST BE STRAPS, MIN. 1.5 INCHES WIDE AND MANUFACTURED TO SUPPORT FLEX DUCT.
7. STRAPS SHOULD NOT COMPRESS THE INNER CORE OR EXCESSIVELY COMPRESS THE INSULATION. IF A STRAP IS CAUSING EXCESSIVE COMPRESSION, A DUCT SADDLE IS TO BE USED, THERMOPAN FLEX DUCT SADDLE, OR APPROVED EQUAL.
8. SPIN-IN COLLAR TO BE INSTALLED IN OPEN POSITION - FINAL ADJUSTMENT BY TEST & BALANCE CONTRACTOR, IF APPLICABLE.
9. INSTALL LOCKING QUADRANT AND HANDLE ON TOP OF DUCT. PROVIDE EXTENSION ROD TO ACCOMMODATE INSULATION AS NECESSARY, IF APPLICABLE.
10. MIN. CENTER LINE OF BEND RADIUS IS ONE DIAMETER (OR INSIDE RADIUS OF D/2).
11. SEE DIFFUSER SCHEDULE FOR DIFFUSER TYPES. DIFFUSER MAY BE DIFFERENT FROM ONE SHOWN IN DIAGRAM. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
12. PULL INSULATION TO EDGE OF DUCTWORK/DIFFUSER AS REQUIRED TO SEAL VAPOR BARRIER. STRAP INSULATION, TAPE AND SEAL ALL JOINTS WITH MASTIC TO PREVENT LEAKAGE AND MOISTURE MIGRATION.
13. A SUPPORT SHOULD BE INSTALLED BETWEEN A TAKE-OFF CONNECTION AND A BEND. THE DUCT SHOULD BE ALLOWED TO EXTEND STRAIGHT FOR AT LEAST ONE DUCT DIAMETER BEFORE MAKING THE BEND.
14. VERTICALLY INSTALLED DUCTS SHALL BE SUPPORTED EVERY 6 FEET AT A MINIMUM.
15. STRAP INNER LINING OF DUCT AND SEAL WITH TAPE AND MASTIC WHEN CONNECTING TO GRILLE/DIFFUSER AND TAKE-OFF ENDS.

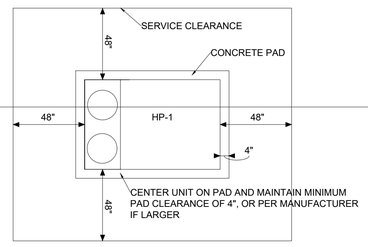


NOTES:

1. COORDINATE LOCATION OF EQUIPMENT BOLTS AND PAD WITH EQUIPMENT SUPPLIER'S DRAWINGS. MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF EQUIPMENT PADS.
2. PLACE BARS IN TOP THIRD OF SLAB.

4 EXTERIOR EQUIPMENT PAD DETAIL

NO SCALE



5 PACKAGE HEAT PUMP SERVICE CLEARANCE

NO SCALE

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PROJECT NAME:

SCC- GILES CAMPUS HORTICULTURE PAVILION RENOVATION

PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

MECHANICAL DETAILS 1

SEAL & SIGNATURE:

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22723 MATTHEW M. PESSE

5/1/26

DRAWN BY: PD

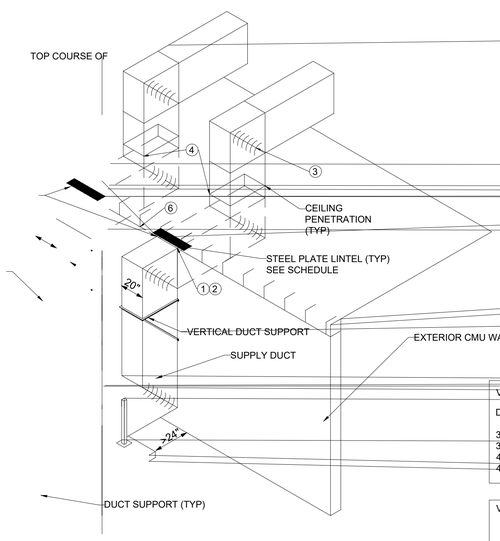
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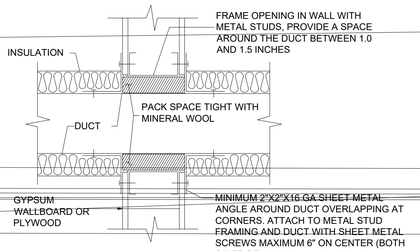


LINE UP PENETRATIONS SO SUPPLY AND RETURN DUCTS PENETRATE WALL BETWEEN JOISTS, ALLOWING DUCTS TO TURN INTO ATTIC BETWEEN TRUSSES WITHOUT TURNING.
NOTE: DUCT WIDTH INCLUDES 2" OF INSULATION ON EACH SIDE.
MASONRY PENETRATION SHOULD BE MADE UNDER FIRST COURSE OF CMU BLOCKS WITH DUCT SITTING FIRMLY ON BLOCKS. USE STEEL LINTEL, SEE LINTEL SCHEDULE. USE 4" BEARING ON EACH SIDE OF LINTEL AND EMBED LINTEL BEARING IN MORTAR JOINT.
ALL 90-DEGREE ELBOWS SHALL BE PROVIDED WITH SINGLE RADIUS TURNING VANES AND TYPE 2 RUNNERS. SEE DETAIL 5 FOR SCHEDULE (TYP).
FIRESTOP CEILING PENETRATION USING SHEET METAL AND FOAM TO CODE, SC IBC 714.6. SEAL INSIDE OF WIRE CONDUIT TERMINATION POINT AFTER WIRING HAS BEEN INSTALLED AND ANY OTHER CONDUIT AND WIRING HOLES IN HP-1 WITH A UL-R11374 LISTED SEALING PUTTY, RAINBOW TECHNOLOGY DUCT SEAL PUTTY 795XX, OR APPROVED EQUIVALENT. LEAVE ONE TRUSS SPAN BETWEEN PENETRATIONS TO ENSURE ADEQUATE PIER WIDTH.

VERTICAL DUCT SUPPORT ANGLE SIZING	
DUCT SIZE	ANGLE
30" X 12"	1" X 1" X ⅛"
36" X 18"	1" X 1" X ⅛"
42" X 24"	1 ¼" X 1 ¼" X ⅛"
48" X 30"	1 ¼" X 1 ¼" X ⅛"

VERTICAL DUCT FASTENER SCHEDULE	
DUCT GAUGE	ALLOWABLE LOAD PER FASTENER
28, 26	25 LB
24, 22, 20	35 LB
18, 16	50 LB

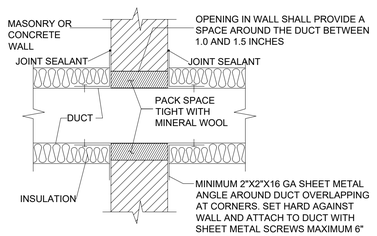
STEEL LINTEL SCHEDULE	
SIZE	STEEL TYPE
4" X ⅜" PLATE	ASTM A36



NOTES:

1. DETAIL FOR GYPSUM OR PLYWOOD WALL WITH FIRE RATING 1.0 HOUR OR LESS AND WITHOUT FIRE DAMPER

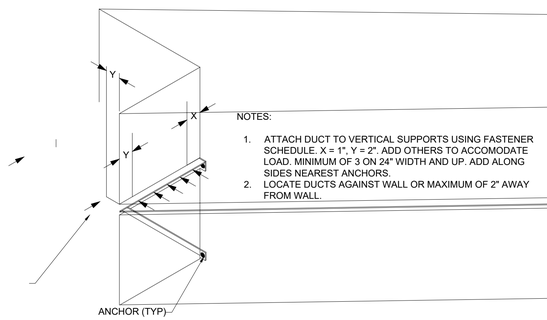
3 DUCT GYPSUM OR PLYWOOD WALL PENETRATION DETAIL
NO SCALE



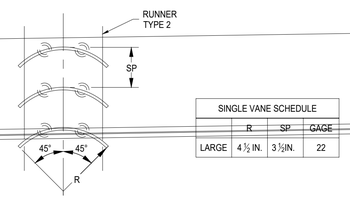
NOTES:

1. DETAIL FOR MASONRY OR CONCRETE WALL WITH FIRE RATING 1.0 HOUR OR LESS AND WITHOUT FIRE DAMPER

4 DUCT MASONRY WALL PENETRATION DETAIL
NO SCALE



VERTICAL DUCT SUPPORT DETAIL
NO SCALE



SINGLE VANE SCHEDULE			
	R	SP	GAGE
LARGE	4 ½ IN.	3 ½IN.	22

NOTES:

1. RUNNERS MAY BE BOLTED, SCREWED, OR WELDED TO DUCTS.
2. OTHER RUNNERS MAY BE USED AS APPROPRIATE. OTHER VANE SIZES, SPACINGS OR CONFIGURATIONS ARE ACCEPTABLE UPON OWNER'S APPROVAL.
3. VANES SHALL BE GALVANIZED STEEL AND SECURELY FASTENED TO RUNNERS.
4. MAXIMUM UNSUPPORTED VAN LENGTH IS 36 IN.
5. WHERE TURNING VANE ASSEMBLIES ARE PLACED INSIDE LINED DUCTS OR FITTINGS, THE INSTALLATION MUST NOT DAMAGE THE LINER, CAUSE EROSION OF THE LINER.

5 DUCT TURNING VANE DETAIL
NO SCALE

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PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

MECHANICAL DETAILS 2

SEAL & SIGNATURE:

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22723 MATTHEW M. JESSE
5/1/26

DRAWN BY: PD

CHECKED BY: LJ & MP

DATE: 5/01/26

100% CONSTRUCTION SET

DRAWING NO.:

M-2.02

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST SOUTH CAROLINA ELECTRICAL CODE, BASED ON THE 2020 EDITION OF THE NEC, SC STATE CODES, SOUTH CAROLINA DEPARTMENT OF ADMINISTRATION–OFFICE OF THE STATE ENGINEER, & LOCAL AUTHORITY REQUIREMENTS.
2. THE CONTRACTOR SHALL VISIT THE PREMISES AND BECOME THOROUGHLY FAMILIAR WITH ALL DETAILS OF THE WORK AND WORKING CONDITIONS. VERIFY ALL FIELD CONDITIONS INCLUDING LOCATION OF UTILITY LINES, STRUCTURES, AND ADVISE THE ENGINEER OF ANY DISCREPANCY THAT MAY PREVENT OR HINDER THE SPECIFIED WORK FROM BEING COMPLETED.
3. THE CONTRACTOR SHALL STUDY THE STRUCTURE AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE THE WORK ACCORDINGLY. THE CONTRACTOR SHALL PROVIDE ALL ACCESSORIES, HANGERS, AND ANCHORS AS NECESSARY TO MEET SUCH CONDITIONS WITHOUT ANY ADDITIONAL COST TO THE OWNER. COORDINATE NEW LUMINAIRE LOCATIONS WITH NEW OVERHEAD DOORS AND ASSOCIATED RAILS.
4. PRIOR TO ACCOMPLISHING ANY WORK IN ANY AREA, ALL WORK SHALL BE PLANNED AND COORDINATED WITH OTHER TRADES AND THE OWNER. THE CONDUIT ROUTING SHALL BE COORDINATED WITH DUCT WORK, AND OTHER OBSTACLES SO AS TO PROVIDE THE MOST EFFICIENT AND AESTHETICALLY PLEASING INSTALLATION.
5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE INSPECTIONS NECESSARY FOR THE INSTALLATION OF HIS WORK AND FURNISH THE ENGINEER WITH CERTIFICATES OF INSPECTIONS FROM ALL AUTHORITIES HAVING JURISDICTION.
6. PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT. STUDY ALL DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT ACCESSORIES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
7. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL FEEDER AND BRANCH CIRCUITS.
8. EACH DISCONNECT SHALL BE EQUIPPED WITH A GROUND BAR.
9. THE PANELBOARDS AND SWITCHBOARD SHALL HAVE A TYPED DIRECTORY INDICATING THE LOAD SERVED AND A ROOM NAME, SPARE, OR SPACE.
10. MOUNTING HEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE, OR EQUIPMENT UNLESS NOTED OTHERWISE. RECEPTACLE AND DATA/TELEPHONE OUTLET SHOWN ADJACENT ON DRAWING SHALL BE MOUNTED 6" APART ON CENTER HORIZONTALLY.
11. COORDINATE ALL DEVICES AND OUTLETS ABOVE, OR BELOW WITH CASEWORK INSTALLATION AND THE ARCHITECT IN ORDER TO POSITION AT THE PROPER LOCATION AND THE HEIGHT.
12. THE CONTRACTOR SHALL USE THE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS. DO NOT SCALE THESE PLANS.
13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
14. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER. DO NOT EXCEED MORE THAN THREE HOMERUNS IN EACH CONDUIT. EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL WIRE. NO SHARED NEUTRALS ALLOWED.
15. ALL WIRE SIZES INDICATED ON THE PLANS ARE BASED ON 75° CONDUCTOR. ALL TERMINALS, DEVICES, AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR THAT TERMINAL RATING OR HIGHER.
16. ELECTRICAL CONTRACTOR TO PROVIDE BLANK FACEPLATES ON ALL UNUSED ELECTRICAL OUTLETS AND TELECOM OUTLETS, EXISTING AND NEW.
17. ALL EQUIPMENT SHALL BE U.L. LABELED OR OTHER THIRD PARTY TESTING AGENCY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION WHERE SUCH A CATEGORY EXISTS FOR THE EQUIPMENT.
18. ALL WIRING SHALL BE COPPER, TYPE THHN/THWN OR XHHW.
19. MINIMUM CONDUIT SIZE SHALL BE ¾"c. ALL WIRING SHALL BE CONTAINED IN RACEWAYS. USE EMT INDOORS. USE PVC SCHEDULE 40 WHERE BELOW GRADE. USE RIGID STEEL CONDUIT WHERE EXPOSED OUTDOORS. USE LIQUID TIGHT FMC FOR ALL CONNECTIONS TO MOTORS AND OUTDOOR HVAC UNITS.
20. ALL CONDUIT ENDS SHALL HAVE INSULATED BUSHINGS.
21. PROVIDE THE NEXT LARGER BRANCH CIRCUIT CONDUCTOR SIZE WHERE THE ACTUAL CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120 VOLT CIRCUIT EXCEEDS 50 FEET.

ABBREVIATIONS:

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GROUND
ATS	AUTOMATIC TRANSFER SWITCH
BAS	BUILDING AUTOMATION SYSTEM PANEL
C	CONDUIT
CATV	CABLE TELEVISION
Cd	CANDELA RATING
CB	CIRCUIT BREAKER
Db	DECIBEL LEVEL
EC	ELECTRICAL CONTACTOR
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER CONNECTION WITH GROUND FAULT PROTECTION
EX	EXISTING TO REMAIN
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDE	FIREBER DISTRIBUTION EQUIPMENT
FPN	FUSED PER NAMEPLATE RATING
FSS	FUSIBLE SAFETY SWITCH
G	EQUIPMENT GROUNDING CONDUCTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTACTOR
LC	LIGHTING CONTACTOR
MC	MECHANICAL CONTACTOR
N	NEUTRAL CONDUCTOR
NL	NIGHT LIGHT
P	POLE
PC	PLUMBING CONTACTOR
PH	PHASE
PNL	PANELBOARD
PP	POWER POLE
REC	RECEPTACLE
RM	EXISTING DEVICE TO REMAIN
SCS	STRUCTURED CABLING SYSTEM
SYN	SYNCHRONIZATION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIRES
WP	WEATHERPROOF
WG	WIRE GUARD
XFMR	TRANSFORMER

COMMUNICATIONS LEGEND:

ALL MAY NOT APPLY

	COMMUNICATION OUTLET, MOUNT AT 18" AFF TO THE CENTER OF DEVICE, UNO WITH 1"C ABOVE ACCESSIBLE CEILING.
	TELEPHONE OUTLET, MOUNT AT 18" AFF TO THE CENTER OF DEVICE, UNO WITH 3/4"C ABOVE ACCESSIBLE CEILING.
	TELEPHONE/DATA OUTLET, MOUNT AT 18" AFF TO THE CENTER OF DEVICE, UNO WITH 3/4"C ABOVE ACCESSIBLE CEILING.
	COMMUNICATION OUTLET, MOUNT AT 42" AFF TO THE CENTER OF DEVICE, UNO WITH 1"C ABOVE ACCESSIBLE CEILING.
	TELEPHONE OUTLET, MOUNT AT 42" AFF OR 6" ABOVE BACKSPLASH TO THE CENTER, UNO
	TELEPHONE/DATA OUTLET, MOUNT AT 42" AFF OR 6" ABOVE BACKSPLASH TO THE CENTER, UNO
	FLUSH MOUNTED FLOOR BOX WITH COMMUNICATION OUTLET, 1"C FOR DATA TO NEAREST WALL & ROUTED UP TO ABOVE ACCESSIBLE CEILING, UNO
	FLUSH MOUNTED CEILING BOX WITH COMMUNICATION OUTLET,
AP	OUTLET FOR WIRELESS ACCESS POINT WITH 1"C TO ABOVE ACCESSIBLE CEILING
DB	DOOR BELL PUSH BUTTON AT 46" AFF TO THE CENTER OF DEVICE, UNO
DBT	DOOR BELL TRANSFORMER, LOCATED ABOVE CEILING
S	WALL MOUNTED SOUND SYSTEM SPEAKER, MOUNT HIGH ON WALL
S	CEILING MOUNTED SOUND SYSTEM SPEAKER
T	LOW VOLTAGE STEP DOWN TRANSFORMER FOR DOOR BELL
	CABLE TV OUTLET RECCESSED ON WALL, MOUNT AT 18" AFF TO THE CENTER UNO, WITH 3/4"C TO ABOVE ACCESSIBLE CEILING, UNO. A–INDICATES WALL MOUNT AT 44" AFF OR 6" ABOVE COUNTERTOP
B	SIGNAL BELL FOR DOOR BELL SYSTEM
	DOOR BELL BUZZER AT 84" AFF TO THE BOTTOM OF DEVICE, UNO
	FOUR WAY SUSPENDED SOUND SYSTEM SPEAKER
	TWO WAY SUSPENDED SOUND SYSTEM SPEAKER
	BASKET–TYPE CABLE TRAY, CENTER HUNG WITH 4" SIDE RAILS AND 9" RUNG SPACING, 12" MIN WIDTH, WITH "SWEEPING 90s"
	TERMINAL GROUND BAR, SEE TELECOM PLANS FOR SIZE AND CONFIGURATION.
	SLEEVES WITH INSULATED BUSHINGS FOR COMMUICATION WIRING PATHWAYS.

AS SUFFIX TO COMMUNICATION DEVICES:

HC	HUB CABINET
P	PAY PHONE
P,TDD	PAY PHONE OUTLET
REBOX	REBOX CABINET
TGB	TERMINAL GROUND CABINET
W	WALL PHONE

AS SUFFIX TO RECEPTACLES OR JUNCTION BOX:

B	BASE OF CABINET
42"	MOUNT 42" ABOVE FINISHED FLOOR
C	CEILING MOUNTED
D	DRYER
DA	CONNECTION FOR LOCAL DOOR ALARM
FH	FUME HOOD
GF	GROUND FAULT
H	HORIZONTAL MOUNT
IG	ISOLATED GROUND
IR	IMPACT RESISTANT
LS	GROUND FAULT PROTECTED RECEPTACLE, RED DEVICE AND COVER
LT	GROUND FAULT PROTECTED RECEPTACLE, BLACK DEVICE AND COVER
MD	PROVIDE CONNECTION TO MOTORIZED DAMPER
P	POWER IN–FEED FOR SYSTEM FURNITURE
PP	POWER POLE WITH TWO CHANNELS FOR POWER AND DATA WIRING
PS	PROJECTION SCREEN CONNECTION
T	TAMPER RESISTANT
TD	TELE–DATA RACEWAY FOR SYSTEM FURNITURE
W/D	WASHER/DRYER
WP	WEATHER PROOF

POWER LEGEND:

ALL MAY NOT APPLY

	FLUSH MOUNTED CEILING DUPLEX RECEPTACLE, 20A
	DUPLEX RECEPTACLE, 20A, 125 VOLT, MOUNT AT 18" AFF TO THE CENTER, UNO
	FLUSH MOUNTED FLOOR DUPLEX RECEPTACLE, 20A
	DUPLEX RECEPTACLE, 20A, 125 VOLT, MOUNT AT 42" AFF OR 6" ABOVE BACKSPLASH TO THE CENTER, UNO
	PEDESTAL MOUNTED DUPLEX RECEPTACLE, NEMA 5–20R, 125V, GFCI, HORIZONTAL MOUNT
	DOUBLE DUPLEX RECEPTACLE 20A, WITH COMMON BOX AND COVER PLATE, MOUNT AT 18" AFF TO THE CENTER, UNO
	FLUSH MOUNTED FLOOR DOUBLE DUPLEX RECEPTACLE, 20A
	DOUBLE DUPLEX RECEPTACLE, 20A, 125 VOLT, MOUNT AT 42" AFF OR 6" ABOVE BACKSPLASH TO THE CENTER, UNO
	SINGLE RECEPTACLE, 125 VOLT, MOUNT 18" AFF TO CENTER, UNO
	SPECIAL RECEPTACLE, NEMA CONFIGURATION AS INDICATED, MOUNT AT 18" AFF TO THE CENTER, UNO
	JUNCTION BOX, SIZE PER NEC
J	FLUSH MOUNTED FLOOR JUNCTION BOX, SIZE PER NEC
	WALL MOUNTED JUNCTION BOX, SIZE PER NEC
	LOADCENTER PANEL BOARD, SEE SCHEDULE FOR MOUNTING
	PANELBOARD, SEE SCHEDULE FOR MOUNTING
	PUSH BUTTON OR EMERGENCY POWER OFF SWITCH
	MUSHROOM–STYLE PUSH BUTTON
	ELECTRIC MOTOR
MJ	J–BOXES (AS REQUIRED) FOR VERTICLE SERVICES TO MUTI–OUTLET ASSEMBLY OR SURFACE RACEWAY AS INDICATED
	FLUSH MOUNTED FLOOR DUPLEX RECEPTACLE AND COMMUNICATION OUTLET
	FLUSH MOUNTED FLOOR DOUBLE DUPLEX RECEPTACLE AND COMMUNICATION OUTLET
M	ELECTRICAL POWER COMPANY METER
SH	MANUAL MOTOR SWITCH WITH HOA, 1P, 120V
SHT	HEAVY DUTY TOGGLE SWITCH, 2P, 208V
SMC	MOMENTARY CONTACT SWITCH, MOUNT AT 46" AFF TO CENTER OF DEVICE UNO
SEA	EMERGENCU EXHAUST FAN SWITCH
	CEILING MOUNTED DOOR OPERATOR
DO	WALL MOUNTED DOOR OPERATOR
PP	OUTLET BOX FOR DOOR OVERHEAD PUSH PLATE, MOUNT 46" AFF TO CENTER UNO
ATS	AUTOMATIC TRANSFER SWITCH
MORU	MOTORIZED OVERHEAD DOOR CONTROLS
HLOP	HYDRAULIC LIFT CONTROL PANEL
TGB	TERMINAL GROUND BAR
	WALL CLOCK
EOLR	END OF LINE RESISTOR
GF	GROUND FAULT PROTECTION
SPD	SURGE PROTECTION DEVICE
GAP	GENERATOR ANNUCIATOR PANEL
	NON–FUSED DISCONNECT SWITCH MOUNTED 6'–7" MAX. AFF TO OPERATING HANDLE, UNO. COORDINATE VOLTAGE AND CURRENT RATING WITH EQUIPMENT BEING SERVED.
	FUSED DISCONNECT SWITCH MOUNTED 6'–7" MAX. AFF TO OPERATING HANDLE, UNO. COORDINATE VOLTAGE AND CURRENT RATING WITH EQUIPMENT BEING SERVED.
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH MOUNTED 6'–7" MAX. AFF TO OPERATING HANDLE, UNO. COORDINATE VOLTAGE AND CURRENT RATING WITH EQUIPMENT BEING SERVED.
	MAGNETIC MOTOR STARTER MOUNTED 6'–7" MAX. AFF TO OPERATING HANDLE, UNO. COORDINATE VOLTAGE AND STARTER SIZE WITH EQUIPMENT BEING SERVED.
	COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH AT 6'–7" MAX. AFF TO OPERATING HANDLE, UNO. COORDINATE VOLTAGE AND STARTER SIZE WITH EQUIPMENT BEING SERVED.

INTERIOR LIGHTING LEGEND:

ALL MAY NOT APPLY

X	2X4 LUMINAIRE WITH DESIGNATION
X	2X4 LUMINAIRE ON EMERGENCY CIRCUIT WITH DESIGNATION
X	2X4 EGRESS LUMINAIRE WITH DESIGNATION
X	6" LUMINAIRE WITH DESIGNATION
X	1x4 LUMINAIRE ON EMERGENCY CIRCUIT WITH DESIGNATION
X	1x4 EGRESS LUMINAIRE WITH DESIGNATION
X	1X4 WALL MOUNTED LUMINAIRE WITH DESIGNATION
X	1x4 WALL MOUNTED LUMINAIRE ON EMERGENCY CIRCUIT WITH DESIGNATION
X	1x4 WALL MOUNTED EGRESS LUMINAIRE WITH DESIGNATION
X	4' LUMINAIRE WITH DESIGNATION
X	4' LUMINAIRE ON EMERGENCY CIRCUIT WITH DESIGNATION
X	4' SUSPENDED LUMINAIRE WITH DESIGNATION
X	4' SUSPENDED LUMINAIRE ON EMERGENCY CIRCUIT WITH DESIGNATION
X	4' EGRESS SUSPENDED LUMINAIRE WITH DESIGNATION
X	1X2 LUMINAIRE WITH DESIGNATION
X	1x2 EMERGENCY LUMINAIRE WITH DESIGNATION
X	1x2 EGRESS LUMINAIRE WITH DESIGNATION
X	2' LUMINAIRE WITH DESIGNATION
X	2' LUMINAIRE ON EMERGENCY CIRCUIT WITH DESIGNATION
X	1X2 SUSPENDED LUMINAIRE WITH DESIGNATION
X	1X2 SUSPENDED LUMINAIRE ON EMERGENCY CIRCUIT WITH DESIGNATION
X	1X2 EGRESS SUSPENDED LUMINAIRE WITH DESIGNATION
X	EYEBALL LUMINAIRE WITH DESIGNATION
X	TRACK LUMINAIRE WITH DESIGNATION
X	TRACK HEAD LUMINAIRE WITH DESIGNATION
X	2X2 LUMINAIRE WITH DESIGNATION
X	2X2 LUMINAIRE ON EMERGENCY CIRCUIT WITH DESIGNATION
X	2X2 EGRESS LUMINAIRE WITH DESIGNATION
X	LUMINAIRE WITH DESIGNATION
X	EMERGENCY LUMINAIRE WITH DESIGNATION
X	EGRESS LUMINAIRE WITH DESIGNATION
X	WALL MOUNTED LUMINAIRE WITH DESIGNATION
X	WALL MOUNTED EMERGENCY LUMINAIRE WITH DESIGNATION
X	WALL MOUNTED EGRESS LUMINAIRE WITH DESIGNATION
	REMOTE EMERGENCY DUAL–HEAD LUMINAIRE POWERED VIA EXIT SIGN.
	WALL MOUNTED EMERGENCY BATTERY PACK AND SINGLE FACE EXIT SIGN
	EMERGENCY BATTERY PACK, SEE LUMINAIRE SCHEDULE
	EMERGENCY BATTERY PACK AND SINGLE FACE EXIT SIGN
	CEILING MOUNTED SINGLE FACE EXIT SIGN
	CEILING MOUNTED DOUBLE FACE EXIT SIGN
	WALL MOUNTED SINGLE FACE EXIT SIGN

S	SINGLE POLE TOGGLE SWITCH MOUNTED 46" AFF TO CENTER OF DEVICE UNO
SK	SINGLE POLE KEYED SWITCH, MOUNT 46" AFF TO CENTER OF DEVICE UNO
S3	3 WAY TOGGLE SWITCH, MOUNT 46" AFF TO CENTER OF DEVICE UNO
S3K	3 WAY KEYED SWITCH, MOUNT 46" AFF TO CENTER OF DEVICE UNO
S4	4 WAY TOGGLE SWITCH, MOUNT 46" AFF TO CENTER OF DEVICE UNO
SLV	LOW VOLTAGE CONTROL SWITCH, MOUNT 46" AFF TO CENTER OF DEVICE UNO
SD	DIMMER SWITCH, MOUNT 46" AFF TO CENTER OF DEVICE UNO
SDC	OCCUPANCY SENSOR SWITCH WITH OVERIDE SWITCH, MOUNTED 46" AFF TO CENTER OF DEVICE UNO
SS	SINGLE POLE TOGGLE DUAL SWITCH MOUNTED 46" AFF TO CENTER OF DEVICE UNO
S3S	3 WAY TOGGLE DUAL SWITCH, MOUNT 46" AFF TO CENTER OF DEVICE UNO
OC	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED, UNO
PC	CEILING MOUNTED PHOTO–CELL
LS	DAY–LIGHT LIGHT SENSOR PHOTO–CELL MOUNTED ON THE CEILING
DS	DAY–LIGHT SENSOR CEILING MOUNTED
LOC	DAY–LIGHT/OCCUPANCY SENSOR CEILING MOUNTED
LC	LIGHTING CONTACTOR
PB	PUSH BUTTON

FIRE ALARM LEGEND:

ALL MAY NOT APPLY

S	CEILING MOUNTED SMOKE DETECTOR
S	WALL MOUNTED SMOKE DETECTOR
H	CEILING MOUNTED HEAT DETECTOR
V	CEILING MOUNTED OR SUSPENDED STROBE DEVICE WITH ADJUSTABLE CANDELA RATING.
SD	DUCT SMOKE DETECTOR
SH	FIRE DOOR / SHUTTER HOLD OPEN/RELEASE, COORDINATE EXACT REQUIREMENTS WITH DOOR / SHUTTER MANUFACTURER.
F	FIRE ALARM PULL STATION, MOUNT 46" AFF TO THE CENTER OF DEVICE UNO
FH	FIRE ALARM HORN/STROBE UNIT; WALL MOUNT AT 84" AFF TO BOTTOM OF DEVICE UNO; WITH ADJUSTABLE CANDELA RATING. WP - INDICATES WEATHER PROOF
FS	FIRE ALARM STROBE ONLY UNIT; WALL MOUNT 84" AFF TO BOTTOM OF DEVICE UNO; WITH ADJUSTABLE CANDELA RATING
F	CEILING MOUNTED OR SUSPENDED FIRE ALARM SPEAKER/STROBE UNIT; ADJUSTABLE CANDELA SETTING 15-110cd.
FACP	FIRE ALARM CONTROL PANEL
FALCD	FIRE ALARM LCD ANNUNCIATOR
PIV	POST INDICATOR VALVE
RA	REMOTE ALARM LIGHT FOR CONCEALED FIRE ALARM DEVICE

AS SUFFIX TO LIGHT FIXTURE:

EM	LIGHT FIXTURE W/ EMERGENCY BATTERY
NL	NIGHT LIGHT

DRAWING LIST:

E0.0	ELECTRICAL PLAN – COVERSHEET
E1.0	ELECTRICAL PLAN E1.1
E3.0	ELECTRICAL PANELBOARDS, RISER, AND LUMINAIRE SCHEDULE

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PROJECT NAME:

SCC- GILES CAMPUS HORTICULTURE PAVILION RENOVATION

PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

ELECTRICAL NOTES & LEGENDS

SEAL & SIGNATURE:

NORTH CAROLINA REGISTERED No. 15775 KATHERINE M. BOOTEN ENGINEER

Kim Catherine Booten

5/01/2026

DRAWN BY:

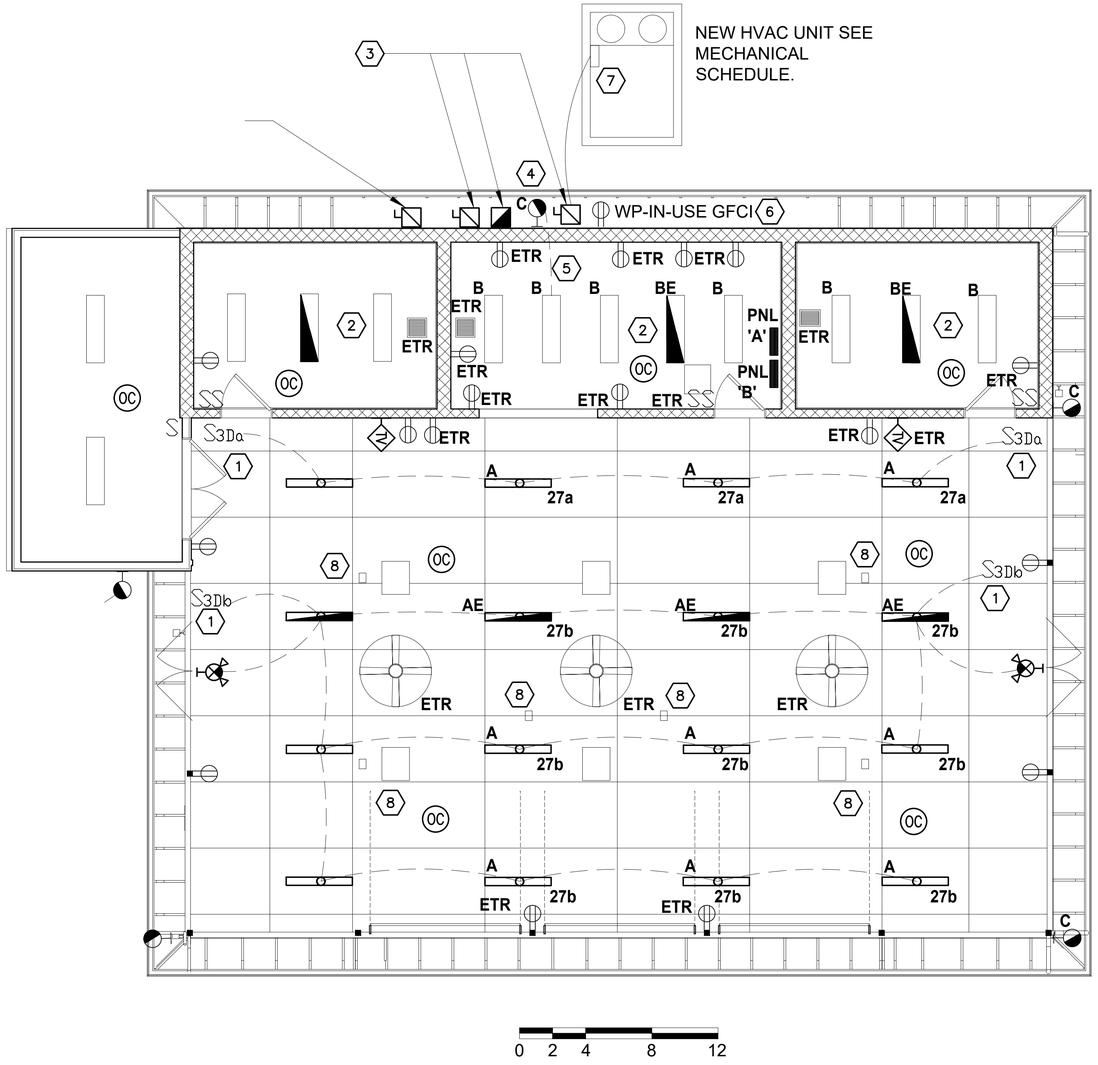
CHECKED BY:

DATE: 5/01/26

100% CONSTRUCTION SET

DRAWING NO.:

E-0.01



KEY NOTES:

1. FLUSH MOUNT ON NEW POST AND WALL FRAMING. FINAL LOCATION TO BE AS DIRECTED BY OWNER PRIOR TO ROUGH–IN.
2. REMOVE EXISTING SURFACE MOUNTED FLUORESCENT LUMINAIRES AND DISPOSE OF LAMPS IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS. PROVIDE NEW LED STRIP LIGHTS AND RECONNECT TO EXISTING CIRCUIT.
3. PROVIDE RONK ADD A PHASE CONVERTER SYSTEM, 50HP RATED, 240V/208V SINGLE TO THREE PHASE, NEMA 3R ENCLOSURE, OR EQUIVALENT. PROVIDE 2P400ANFSS/3R ON INPUT, 3P/3R/200A/F@150A FSS ON OUTPUT. SEE DETAIL.
4. PROVIDE WALL MOUNTED FLOOD LIGHT TO MATCH EXISTING. PROVIDE WITH PHOTOCELL. CONNECT TO ADJACENT LIGHT.
5. CONNECT TO EXISTING CIRCUIT. 2/12,#12G, 3/4"C.
6. CONNECT TO PANELBOARD A–8. 2/12,#12G, 3/4"C.
7. CONNECT TO A–1,3 VIA ADD A PHASE CONVERTER. SEE PANELBOARD SCHEDULE. PROVIDE 1"C FOR CONTROL WIRING AND TERMINATE AS DIRECTED BY MECHANICAL CONTRACTOR.
8. REMOVE EXISTING SURFACE MOUNTED LIGHTS AND ASSOCIATED CONTROLS IN THIS AREA AND INSTALL NEW LUMINAIRES AS INDICATED. REUSE EXISTING CIRCUITS TO THE EXTENT POSSIBLE. CONNECT TO NEW OCCUPANCY SENSORS AND DIMMER SWITCHES INDICATED.

GENERAL NOTES:

A. EXISTING ELECTRICAL WORK SHALL REMAIN UON. REMOVE EXISTING LUMINAIRES IN CLASSROOM. PATCH CEILING AS REQUIRED.

B. COORDINATE LOCATION OF NEW LIGHTS WITH EXISTING FANS, CEILING ACCESS HATCHES AND OVERHEAD DOOR TRACKS.

C. PROVIDE UPDATED PANELBOARD SCHEDULE FOR REVISED CIRCUITS SERVING NEW WORK. MARK ALL UNUSED CIRCUITS AS "SPARE".

D. ALL WIRING AND RACEWAYS SHALL BE RUN CONCEALED. EXISTING CABLING ABOVE THE CEILING MAY BE REUSED TO SERVE NEW LUMINAIRES TO THE EXTENT POSSIBLE IF AN ACCEPTABLE WIRING METHOD (EMT OR MC CABLE).

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PROJECT NAME:

SCC- GILES CAMPUS HORTICULTURE PAVILION RENOVATION

PROJECT NUMBER:

H59-N385-PD

DRAWING TITLE:

ELECTRICAL PLAN

SEAL & SIGNATURE:

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No.15775 KIMBERLY CATHERINE WOOTEN

5/01/2026

DRAWN BY:

CHECKED BY:

DATE: 5/01/26

100% CONSTRUCTION SET

DRAWING NO.:

E-1.00

PANELBOARD "A"

VOLTAGE : 240 / 120V 1PH 3W | LOCATION: WORK ROOM | MOUNTING: SURFACE | 400 A MAIN BUS RATING | 400 A MAIN LUGS ONLY

BRANCH CIRCUIT										BRKR	PHASE		BRKR	BRANCH CIRCUIT									
CKT	LOAD DESCRIPTION	LOAD (KVA) LTG	REC	MTR	H/C	OTH	KIT	WIRE SIZE	C (IN)	TRIP/ POLE	A	B	TRIP/ POLE	WIRE SIZE	C (IN)	LOAD (KVA) LTG	REC	MTR	H/C	OTH	KIT	LOAD DESCRIPTION	CKT
1	ADD A PHASE CONVERTER FOR NEW HVAC UNIT NOTE D.			8.40	15.00			SEE POWER RISER DIAGRAM		350/2	■	■										UNUSABLE OPPOSITE SUB FEED BREAKER	2
3				8.40	15.00						■	■											4
5											■												6
7										20/1		■	20/1				0.18					OUTDOOR RECEPT.	8
9	EXISTING PANELBOARD 'B'	0.85	3.24	1.44	0.00	0.00	1.72			100/2	■	■	20/1									SPARE	10
11		0.55	2.88	2.04	0.00	0.00	0.00				■	■	20/1									SPARE	12
13	SPARE									20/2	■	■	20/1									SPARE	14
15	-										■	■	20/1									SPARE	16
17	SPARE									20/2	■	■	20/1									SPARE	18
19	-										■	■	20/1									SPARE	20
21	SPACE ONLY										■	■	20/1									SPARE	22
23	SPACE ONLY										■	■	20/1									SPARE	24

CONNECTED LOAD	KVA	AMPS
PHASE A	30.7	255
PHASE B	29.1	242
TOTAL	59.7	249

42,000 AMPS MIN. INTERRUPTING CAPACITY (RMS SYM. AMPS)

	CONNECTED (KVA)	DEMAND (KVA)
LIGHTING/CONTINUOUS	1.4	1.4
RECEPTACLES	6.3	6.3
MOTORS	20.3	20.3
HVAC	30.0	30.0
OTHER	0.0	0.0
KITCHEN	1.7	1.1
TOTAL DEMAND LOAD		59.1 KVA
DEMAND AMPS		246 AMPS

LARGEST MOTOR (KVA)

NOTES:
A. DOOR IN DOOR CONSTRUCTION
B. COPPER BUSSES.
C. WIRE SIZES ARE MINIMUM, INCREASE FOR VOLTAGE DROP.
D. SUB FEED BREAKER ON LOAD SIDE OF MAIN LUGS.

PANELBOARD "B"

VOLTAGE : 240 / 120V 1PH 3W | LOCATION: WORKROOM | MOUNTING: SURFACE | 100 A MAIN BUS RATING | 100A MAIN CIRCUIT BREAKER

BRANCH CIRCUIT										BRKR	PHASE		BRKR	BRANCH CIRCUIT									
CKT	LOAD DESCRIPTION	LOAD (KVA) LTG	REC	MTR	H/C	OTH	KIT	WIRE SIZE	C (IN)	TRIP/ POLE	A	B	TRIP/ POLE	WIRE SIZE	C (IN)	LOAD (KVA) LTG	REC	MTR	H/C	OTH	KIT	LOAD DESCRIPTION	CKT
1	WOMENS RECEPT		0.18					EXIST		20/1	■	■	20/1	EXIST			0.72					KITCHEN RECEPT - FRIDGE	2
3	KITCHEN RECEPT		0.72					EXIST		20/1	■	■	20/1	EXIST			0.72					KITCHEN RECEPT	4
5	KITCHEN RECEPT		0.72					EXIST		20/1	■	■	20/1	EXIST			0.72				1.00	KITCHEN RECEPT/WATER HTR	6
7	OUTSIDE RECEPT		0.72					EXIST		20/1	■	■	20/1	EXIST			0.72					OUTSIDE RECEPT	8
9	OUTSIDE RECEPT/SECURITY LT	0.10	0.72					EXIST		20/1	■	■	20/1	EXIST			0.72					OUTSIDE RECEPT	10
11	WOMENS HEATER - SEE NOTE							EXIST		20/2	■	■	20/1	EXIST								SPARE	12
13	-							EXIST			■	■	20/1	EXIST								SPARE	14
15	MENS HEATER - SEE NOTE							EXIST		20/2	■	■	20/1	EXIST								SPARE	16
17	-							EXIST			■	■	20/1	EXIST								SPARE	18
19	WOMENS LIGHTS	0.15						EXIST		20/1	■	■	20/1	EXIST								SPARE	20
21	KITCHEN LIGHTS	0.25						EXIST		20/1	■	■	20/1	EXIST		0.10						MENS LIGHTS	22
23	KITCHEN FAN			0.72				EXIST		20/1	■	■	20/1	EXIST				0.60				OUTSIDE BAY LTS/FANS	24
25	OUTSIDE LTS/FRONT BAY LTS			0.72				EXIST		20/1	■	■	20/1	EXIST			0.18					MENS RECEPT	26
27	NEW LIGHTS	0.40								20/1	■	■	20/2										28
29	NEW LIGHTS	0.40								20/1	■	■											30

CONNECTED LOAD	KVA	AMPS
PHASE A	6.5	54
PHASE B	4.8	40
TOTAL	11.3	47

22,000 AMPS MIN. INTERRUPTING CAPACITY (RMS SYM. AMPS)

	CONNECTED (KVA)	DEMAND (KVA)
LIGHTING/CONTINUOUS	1.4	1.4
RECEPTACLES	6.1	6.1
MOTORS	2.0	2.0
HVAC	0.0	0.0
OTHER	0.0	0.0
KITCHEN	1.7	1.1
TOTAL DEMAND LOAD		10.7 KVA
DEMAND AMPS		44 AMPS

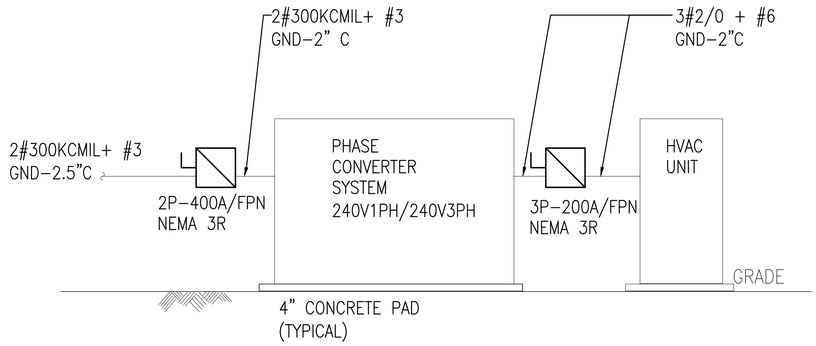
LARGEST MOTOR (KVA)

NOTES:
A. EXISTING PANELBOARD. CIRCUIT INFORMATION BASED ON EXIST. SCHEDULE
B. COPPER BUSSES.
C. WIRE SIZES ARE MINIMUM, INCREASE FOR VOLTAGE DROP.
D. MOVE CIRCUIT TO NEW PANELBOARD 'A'
E. PROVIDE NEW PANELBOARD SCHEDULE TO REFLECT CHANGES
F. RECONNECT EXISTING CIRCUITS. PROVIDE NEW WIRING TO MATCH EXIST.

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER AND CATALOG NUMBER	LIGHT SOURCE TYPE	LIGHT SOURCE VOLTS	POWER SUPPLY TYPE	POWER SUPPLY NO.	INPUT WATTS	MOUNTING	DESCRIPTION
A	MARK 80CRI MSL4 120 35K 1000LMF MIN10 FLL WHTT ZT	LED	120	DIMMING	ONE	32	SURFACE MOUNTED.	EXTRUDED ALUMINUM OR STEEL BAKED WHITE ENAMEL HOUSING, 4" x 4" SQUARE WITH LOW GLOW EXTRUDED ACRYLIC LENS AND REPLACEABLE DIMMING DRIVER. LM90/60. EQUIVALENT MANUFACTURERS BY SIGNIFY OR OSRAM.
AE	MARK 80CRI MSL4 120 35K 1000LMF MIN10 FLL WHTT ZT	LED	121	DIMMING	ONE	33	SURFACE MOUNTED.	SAME AS TYPE A EXCEPT WITH 90 MINUTE BATTERY PACK WITH TEST SWITCH AND LED INDICATING LIGHTS AND EMERGENCY TRANSFER RELAY TO RETURN LUMINAIRE TO FULL BRIGHTNESS DURING A POWER OUTAGE. EQUIVALENT MANUFACTURERS SIGNIFY OR OSRAM.
B	ACUITY BRANDS CSSL48 4000LM MVOLT 40K80CRI	LED	120	STD	ONE	38	SURFACE MOUNTED.	DLC LISTED AND UL LISTED LED STRIP LIGHT WITH STABILIZED LOW GLARE POLYCARBONATE LENS, BAKED WHITE ENAMEL STEEL HOUSING. EQUIVALENT MANUFACTURERS SIGNIFY OR OSRAM.
BE	ACUITY BRANDS CSSL48 4000LM MVOLT 40K80CRI	LED	120	STD	ONE	38	SURFACE MOUNTED.	SAME AS TYPE B EXCEPT WITH 90 MINUTE BATTERY PACK WITH TEST SWITCH AND LED INDICATING LIGHTS AND EMERGENCY TRANSFER RELAY TO RETURN LUMINAIRE TO FULL BRIGHTNESS DURING A POWER OUTAGE. EQUIVALENT MANUFACTURERS SIGNIFY OR OSRAM.
C	EXISTING WALL MOUNTED FLOODLIGHT TO REMAIN, RELAMP WITH NEW LED LAMP							EXISTING TO REMAIN. PROVIDE EXTERNAL 90 MINUTE BATTERY PACK WITH TEST SWITCH AND LED STATUS LIGHTS AND REWIRE AHEAD OF ANY SWITCHING OR PHOTOCELL CONTROL DEVICE TO BRING TO FULL BRIGHTNESS DURING POWER OUTAGE.
X	ACUITY BRANDS LES 1 R ELN							DIE CAST ALUMINUM EXIT SIGN WALL MOUNTED WITH 90 MINUTE BATTERY PACK OR EQUIVALENT BY SIGNIFY OR OSRAM.

LUMINAIRE SCHEDULE NOTES:



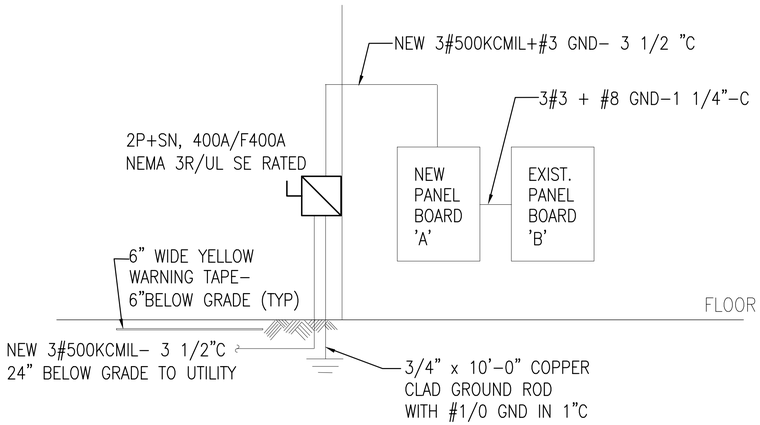
ADD A PHASE CONVERTER DETAIL

NOTES:

A. PROVIDE CONTROL AND POWER WIRING FROM PHASE CONVERTER TO HVAC UNIT CONTROLLER AND BETWEEN INTERNAL PHASE CONVERTERS PER MANUFACTURER'S INSTRUCTIONS.

B. CONNECT PHASE CONVERTERS IN PARALLEL TO PROVIDE THREE PHASE POWER PER MANUFACTURER'S INSTRUCTIONS. PROVIDE INTERNAL WIRING AS DIRECTED BY MFR.

C. HVAC UNIT SHALL NOT RUN UNTIL PHASE CONVERTER SENDS START SIGNAL TO HVAC UNIT AFTER THREE PHASE POWER IS AVAILABLE.



GENERAL NOTES:

A. ALL WORK IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED. PROVIDE NEW SERVICE AND RECONNECT EXISTING AS SHOWN AND AS REQUIRED.

POWER RISER DIAGRAM

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PROJECT NAME:

SCC- GILES CAMPUS HORTICULTURE PAVILION RENOVATION

PROJECT NUMBER:
H59-N385-PD

DRAWING TITLE:
SCHEDULES & RISER DIAGRAM

SEAL & SIGNATURE:

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No.15775 KIM CATHERINE WOOTEN
5/01/2026

DRAWN BY:

CHECKED BY:

DATE: 5/01/26

100% CONSTRUCTION SET

DRAWING NO.:
E-1.2