MIDLANDS TECHNICAL COLLEGE

AMSC EXPANSION - AIRPORT

STATE PROJECT NUMBER: H59-N301-SB

MIDLANDS TECHNICAL COLLEGE, WEST COLUMBIA

CONSTRUCTION SET

GOODWYN MILLS CAWOOD, LLC	ARCHITECTURE, INTERIORS, CIVIL ENGINEERING
ADC ENGINEERING, INC.	STRUCTURAL ENGINEERING
BUFORD GOFF & ASSOCIATES, INC.	ELECTRICAL, MECHANICAL, PLUMBING & FIRE PROTECTION ENGINEERING

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STATE OF SOUTH CAROLINA
GOODWYN, MILLS CAWOOD, LLC
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No. 101713
REGISTERED ARCHITECT

ISSUE	DATE
CD SET	04/17/2026

DRAWN BY: JH
CHECKED BY: JL

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-SB
GMC: ACOL240010

STATE OF SOUTH CAROLINA
12/15/25
JUSTIN L. LUCAS
COLUMBIA, SC
8946
REGISTERED ARCHITECT

TITLE SHEET

T1

4/17/2026 12:12:09 PM TEMPLATE VERSION: 2022.1

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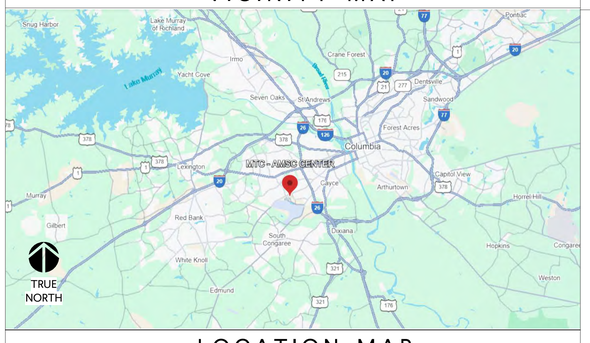
55

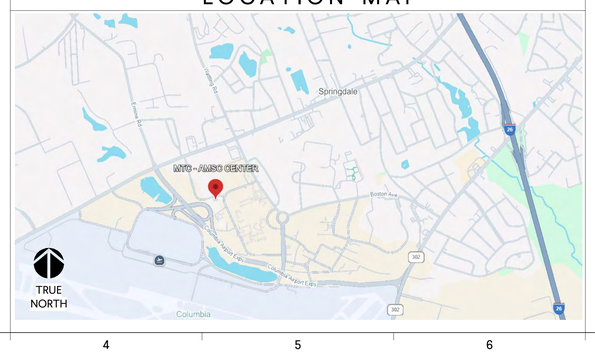
ABBREVIATIONS

ACC	ACCESSIBLE
ACI	AMERICAN CONCRETE INSTITUTE
ACT	ACOUSTICAL CEILING TILE
ADD	ADDENDUM
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
ADJ	ADJACENT
B/B	BACK-TO-BACK
BC	BASE OF CURB
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCHMARK
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT-UP ROOF
BOW	BOTTOM OF WALL
B/W	BETWEEN
CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CD	CORE DECK
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFMF	COLD-FORMED METAL FRAMING
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONSTRUCTION OR CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CLR	CLEAR (ANCE)
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
COORD	COORDINATE
CPT	CARPET (ED)
CSMU	CALCIUM SILICATE MASONRY UNIT
CT	CERAMIC TILE
CW	CURTAIN WALL
D	DRYER
DBL	DOUBLE
DEM	DEMOLISH OR DEMOLITION
DET	DETAIL
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DS	DOWNSPOUT
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEV	ELEVATION / ELEVATOR
ELEC	ELECTRIC (ALL)
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXPN	EXPANSION
EXT	EXTERIOR
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER & CABINET
FFE	FINISH FLOOR ELEVATION
FFW	FINISH FACE OF WALL
FHC	FIRE HOSE & CABINET
F/F	FACE TO FACE
FL	FLOOR
FLG	FLANGE
FND	FOUNDATION
FO	FACE OF
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FR	FRAME (ED), (ING)
FRT	FIRE RETARDANT TREATED
FT	FOOT/FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GHM	GALVANIZED HOLLOW METAL
GI	GALVANIZED IRON
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HEIGHT
HC	HANDICAP
HM	HOLLOW METAL
HOD	HIGHEST OPERABLE DEVICE
HORIZ	HORIZONTAL
HP	HIGH POINT/HORSE POWER
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HW	HARDWARE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IJ	ISOLATION JOINT
IN	INCH / INCHES
INSUL	INSULATION
JAN	JANITOR'S CLOSET
JG	JOIST GIRDER
JT	JOINT
K	THOUSAND
KIP	1000 #
KJ	KEY JOINT
KSI	1000 # PER SQ IN
LAM	LAMINATE (D)
LF	LINEAR FOOT
L	LENGTH, ANGLE
LAB	LABORATORY
LAV	LAVATORY
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT GA	LIGHT GAUGE
LT	LIGHT
MATL	MATERIAL
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MEZZ	MEZZANINE
MANUF	MANUFACTURE (R)
MH	MANHOLE
MIN	MINIMUM
MO	MASONRY OPENING
MULL	MULLION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/H	OVERHEAD
OC	ON CENTER (S)
OCC	OCCUPANT (S)
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
PJ	PRECAST JOINT
PKP	PROTECTIVE KICK PLATE
PL	PROPERTY LINE, PLATE
PLAM	PLASTIC LAMINATE
PNT	PAINT (ED)
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREMANUF	PREMANUFACTURED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT / PRESSURE TREATED / POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PLYWOOD
QT	QUARRY TILE
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCEMENT BAR
REF	REFRIGERATOR / REFERENCE
REINF	REINFORCE (D), (ING)
REQ'D	REQUIRED
RET	RETAINING
REV	REVISION (S), REVISED
RH	RIGHT HAND
RJ	RECESSED JOINT
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
SC	SEALED CONCRETE
SCHED	SCHEDULED
SD	STORM DRAIN
SECT	SECTION
SF	STOREFRONT
SIM	SIMILAR
SPEC	SPECIFICATION (S)
SQ	SQUARE
SS	SOLID SURFACE
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SY	SQUARE YARD
TELE	TELEPHONE
TERM	TERMINATION
T&G	TONGUE AND GROOVE
TH	THICK (NESS)
THK	THICK (NESS)
TO	TOP OF
TOC	TOP OF CURB
TOGB	TOP OF GRAB BAR
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOS	TOP OF SLAB / TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
TZ	TERRAZZO
UNO	UNLESS NOTED OTHERWISE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VWC	VINYL WALL COVERING
W	WASHER / WIDTH / WIDE FLANGE
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WIN	WINDOW
WP	WORK POINT / WATERPROOFING
WT	WEIGHT
WW	WALL TO WALL
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

VICINITY MAP



LOCATION MAP



ANNOTATION SYMBOLS & TAGS

ROOM NAME
101
ROOM REFERENCE TAG

2
A
COLUMN LINES: CONSECUTIVE NUMBERS ARE USED FOR COLUMN LINES RUNNING NORTH & SOUTH
CONSECUTIVE LETTERS ARE USED FOR COLUMN LINES RUNNING EAST & WEST

2
FACE OF MASONRY OR FACE OF GIRDER

677.52
ELEVATION TAG: 677.52 - ELEVATION (FT)

1
A1.01
EXTERIOR ELEVATION TAG: ELEVATION 1 ON SHEET A101

3
A1.01
INTERIOR ELEVATION TAG: INTERIOR ELEVATION 3 ON SHEET A101

FF&E: BY OTHERS

REVISION CLOUD AND TAG: USED TO INDICATE SCOPE OF CURRENT REVISION

OG
WALL TAG: INTERIOR WALL TYPE OG (SEE PARTITION LEGEND)

101
DOOR TAG: DOOR NUMBER 101 (SEE FLOOR PLANS AND DOOR SCHEDULE)

C-1
CURTAINWALL TAG: CURTAINWALL TYPE 1 (SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

5-1
STOREFRONT TAG: STOREFRONT TYPE 1 (SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

W-1
WINDOW TAG: WINDOW TYPE 1 (SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

L-1
LOUVER TAG: LOUVER TYPE L1 (SEE LOUVER SCHEDULE)

TA01
SPECIALTY EQUIPMENT TAG: SEE SPECIALTY EQUIPMENT SCHEDULE

G1
PLAN KEYNOTE TAG: KEYNOTE NUMBER SEE PLAN KEYNOTE SCHEDULE

1
A1.01
BUILDING SECTION TAG: SECTION 1 ON SHEET A101

1
A1.01
WALL SECTION TAG: SECTION 1 ON SHEET A101

1
A1.01
ENLARGED DETAIL TAG: DETAIL 1 ON SHEET A101

CDS#
#
HEIGHT #
DEPTH #
WIDTH #
CASEWORK TAG

PRIMARY / ACCENT		
WALL FINISH	PNT-1	PNT-5
BASE FINISH	RB-1	
FLOOR FINISH	LVT-1	
CASEWORK / COUNTERTOP FINISH	PL-3	SS-1

INTERIOR FINISH TAG

PLAN NORTH
NORTH ARROW: ARCHITECTURAL PLAN ORIENTATION

TRUE NORTH
NORTH ARROW: CIVIL ORIENTATION

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DRAWING INDEX

G1.01

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ACCESSIBLE ELEMENTS NOTES

01. **ACCESSIBILITY STANDARDS:** CONTRACTOR MUST BE FAMILIAR WITH AND, SHALL MAINTAIN ON THE JOB SITE, A COPY OF THE CURRENT ADAAG STANDARDS AND IBC CHAPTER 11 ACCESSIBILITY REQUIREMENTS (OR FLORIDA BUILDING CODE ACCESSIBILITY) AS APPLICABLE. DURING CONSTRUCTION THE GENERAL CONTRACTOR SHALL BE MINDFUL OF THESE ACCESSIBILITY REQUIREMENTS INCLUDING MOUNTING HEIGHTS AND FLOOR MANEUVERING CLEARANCES AND, IN THE EVENT THAT FIELD CONDITIONS WILL NOT ALLOW FOR ACCESSIBILITY REQUIREMENTS TO BE MAINTAINED IN A PARTICULAR CONDITION OR INSTALLATION, CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR FURTHER DIRECTION PRIOR TO PROCEEDING.

02. **ADA DEVICES:** ALL DEVICES AND FIXTURES DEPICTED HEREIN AND WHERE NOTED AS "ADA" OR "ACCESSIBLE" SHALL AT MINIMUM BE INSTALLED IN STRICT ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND APPLICABLE BUILDING CODES. WHERE ACCESSIBILITY REQUIREMENTS MAY VARY BY JURISDICTION, FOLLOW THE MOST STRINGENT REQUIREMENTS.

03. **ADA MOUNTING HEIGHTS:** ALL MOUNTING HEIGHTS SHOWN ON THIS PAGE ARE TO BE MEASURED FROM THE TOP OF FLOOR FINISH (i.e. NOT FROM SUBFLOOR). THE CONTRACTOR SHALL ACCOUNT FOR THE THICKNESS OF THE SPECIFIED FLOOR FINISH WHEN ESTABLISHING THE MOUNTING HEIGHTS OF ACCESSIBLE ITEMS.

04. **ADA PLAN DIMENSIONS:** ALL PLAN DIMENSIONS SHALL BE MEASURED FROM THE FINISH FACE OF SCHEDULED WALL FINISH. THE CONTRACTOR SHALL ACCOUNT FOR THE THICKNESS OF THE SPECIFIED WALL FINISH e.g., WALL TILE, WHEN ESTABLISHING PLAN DIMENSIONS AND CLEARANCES FOR ACCESSIBLE ELEMENTS.

05. **PLUMBING ELEMENTS AND FIXTURES:** SEE PLUMBING DRAWINGS AND SPECIFICATIONS FOR REQUIRED LOCATIONS AND MOUNTING HEIGHT OF PLUMBING ELEMENTS AND FIXTURES. SHOULD CONFLICT EXIST BETWEEN MOUNTING HEIGHTS AND/OR CLEARANCES INDICATED HEREIN AND THE REQUIREMENTS OF THE PLUMBING ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO ROUGH-IN.

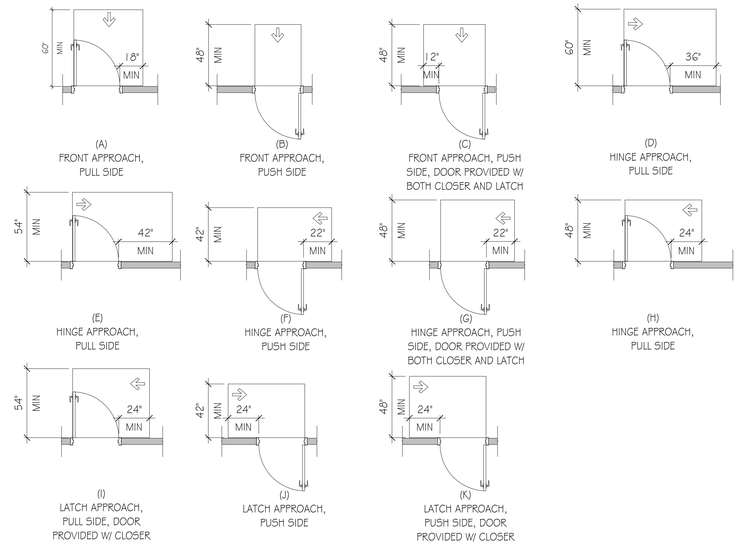
06. **ELECTRICAL DEVICES:** SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF ELECTRICAL DEVICES AND FIXTURES. SHOULD CONFLICT EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE ELECTRICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO ROUGH-IN.

ABBREVIATIONS AND ACRONYMS

AFF . . . . . ABOVE FINISHED FLOOR	MAX . . . . . MAXIMUM
BOGB . . . . . BOTTOM OF GRAB BAR	MIN . . . . . MINIMUM
FFE . . . . . FINISHED FLOOR ELEVATION	TOGB . . . . . TOP OF GRAB BAR
FFW . . . . . FINISH FACE OF WALL	WC . . . . . WATER CLOSET
FO . . . . . FACE OF	W/ . . . . . WITH
GB . . . . . GRAB BAR	W/O . . . . . WITHOUT
HOD . . . . . HIGHEST OPERABLE DEVICE	

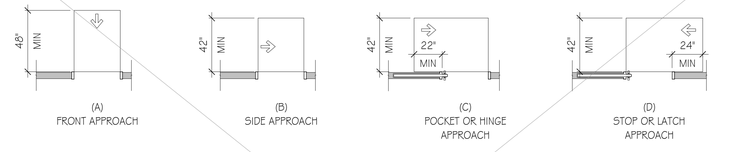
DOOR AND GATE MANEUVERING CLEARANCES

404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES



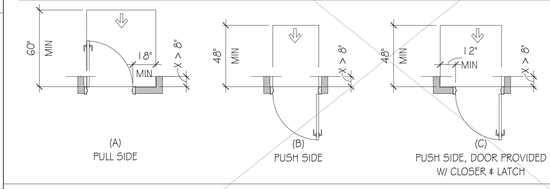
(A) FRONT APPROACH, PULL SIDE
(B) FRONT APPROACH, PUSH SIDE
(C) FRONT APPROACH, PUSH SIDE, DOOR PROVIDED W/ BOTH CLOSER AND LATCH
(D) HINGE APPROACH, PULL SIDE
(E) HINGE APPROACH, PULL SIDE
(F) HINGE APPROACH, PUSH SIDE
(G) HINGE APPROACH, PUSH SIDE, DOOR PROVIDED W/ BOTH CLOSER AND LATCH
(H) HINGE APPROACH, PULL SIDE
(I) LATCH APPROACH, PULL SIDE, DOOR PROVIDED W/ CLOSER
(J) LATCH APPROACH, PUSH SIDE
(K) LATCH APPROACH, PUSH SIDE, DOOR PROVIDED W/ CLOSER

404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS



(A) FRONT APPROACH
(B) SIDE APPROACH
(C) POCKET OR HINGE APPROACH
(D) STOP OR LATCH APPROACH

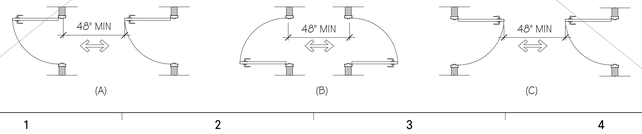
404.2.4.3 RECESSED DOORS AND GATES



(A) PULL SIDE
(B) PUSH SIDE
(C) PUSH SIDE, DOOR PROVIDED W/ CLOSER & LATCH

404.2.4.3 RECESSED DOORS AND GATES. A DOOR CAN BE RECESSED DUE TO WALL THICKNESS OR BECAUSE OF CASEWORK AND OTHER FIXED ELEMENTS ADJACENT TO THE DOORWAY. THIS PROVISION MUST BE APPLIED WHEREVER DOORS ARE RECESSED.

404.2.4.6 DOORS IN SERIES AND GATES IN SERIES



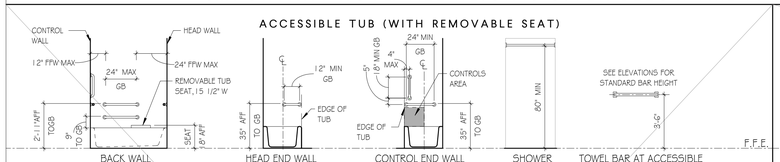
(A) (B) (C)

ACCESSIBLE PLUMBING ELEMENTS AND FACILITIES - ELEVATION VIEW

SEE G1.12 FOR PLAN DETAILS

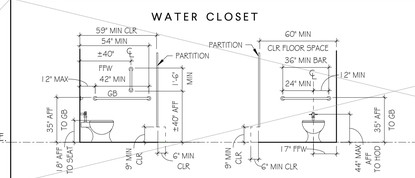
IMPORTANT NOTE: ALL HEIGHTS GIVEN BELOW ARE FROM FACE OF FLOOR FINISH (NOT FROM FINISH SLAB)

ACCESSIBLE TUB (WITH REMOVABLE SEAT)

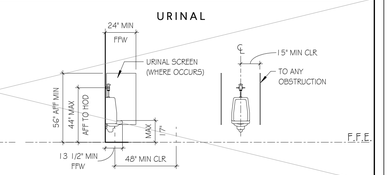


BACK WALL | HEAD END WALL | CONTROL END WALL | SHOWER CURTAIN ROD | TOWEL BAR AT ACCESSIBLE LOCATIONS

WATER CLOSET



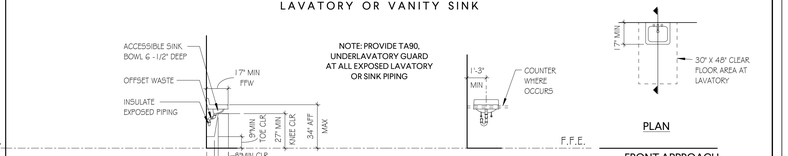
URINAL



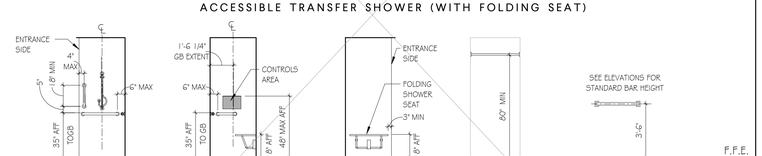
ACCESSIBLE ROLL-IN SHOWER (WITHOUT FOLDING SEAT)

HEAD WALL | BACK WALL | END WALL | SHOWER CURTAIN ROD | TOWEL BAR AT ACCESSIBLE LOCATIONS

LAVATORY OR VANITY SINK

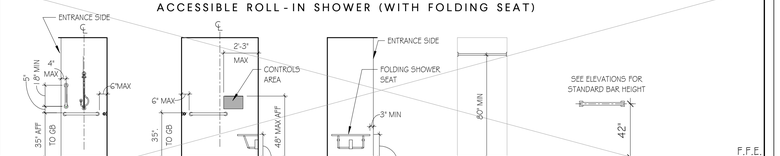


ACCESSIBLE TRANSFER SHOWER (WITH FOLDING SEAT)



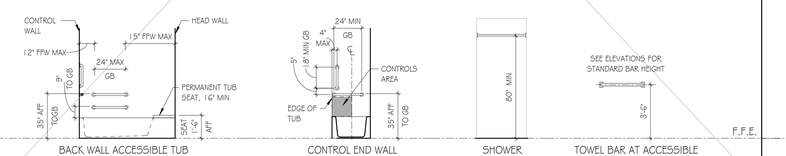
HEAD WALL | BACK WALL | SEAT WALL | SHOWER CURTAIN ROD | TOWEL BAR AT ACCESSIBLE LOCATIONS

ACCESSIBLE ROLL-IN SHOWER (WITH FOLDING SEAT)



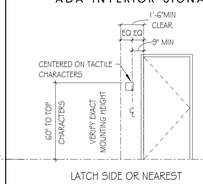
HEAD WALL | BACK WALL | SEAT WALL | SHOWER CURTAIN ROD | TOWEL BAR AT ACCESSIBLE LOCATIONS

ACCESSIBLE TUB (WITH PERMANENT SEAT)



BACK WALL ACCESSIBLE TUB (WITH PERMANENT SEAT) | CONTROL END WALL | SHOWER CURTAIN ROD | TOWEL BAR AT ACCESSIBLE LOCATIONS

ADA INTERIOR SIGNAGE

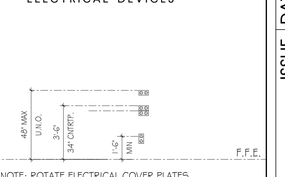


LATCH SIDE OR NEAREST ADJACENT WALL

FIRE ALARM W/ STROBE

IF CEILING DOES NOT PERMIT 80" VERIFY HEIGHT W / ARCH

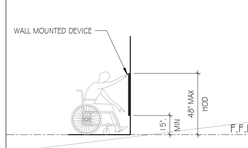
ELECTRICAL DEVICES



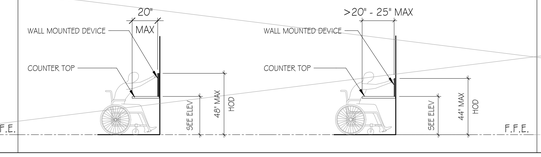
*NOTE: ROTATE ELECTRICAL COVER PLATES HORIZONTAL IF COUNTERTOP IS ABOVE 42" HIGH

TYPICAL REACH RANGES

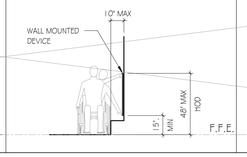
UNOBSTRUCTED FORWARD REACH



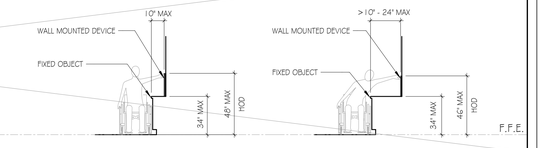
OBSTRUCTED HIGH FORWARD REACH



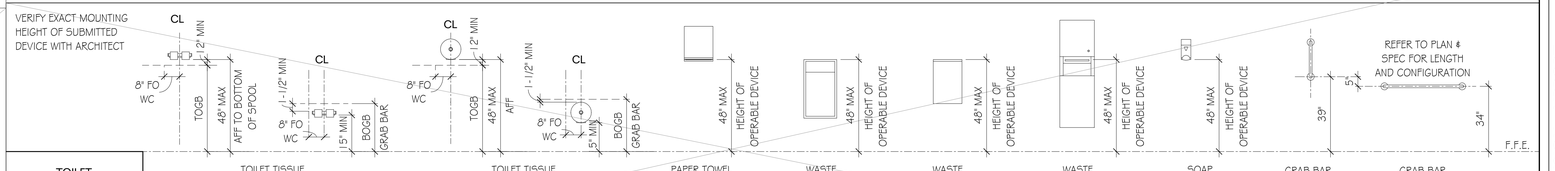
UNOBSTRUCTED SIDE REACH



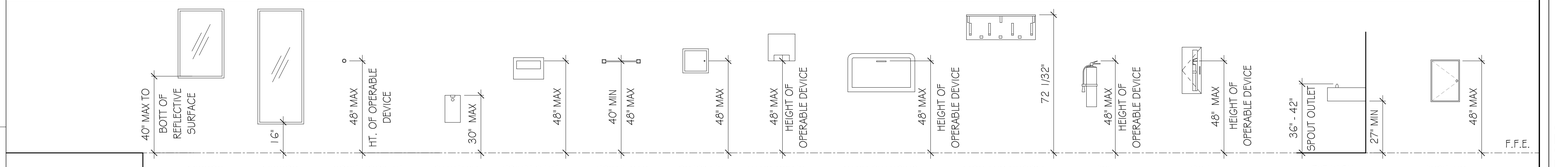
OBSTRUCTED HIGH SIDE REACH



TYPICAL ACCESSIBLE MOUNTING HEIGHTS



TOILET ACCESSORY TYPE	DRAWING DESIGNATION
TOILET TISSUE HOLDER	TA01, TA50
TOILET TISSUE DISPENSER	TA02
PAPER TOWEL DISPENSER	TA03, TA04, TA05, TA06, TA07, TA08, TA09, TA10
WASTE RECEPTACLE	TA11 RECESSED
WASTE RECEPTACLE	TA12, TA13 SURFACE MOUNTED
WASTE RECEPTACLE	TA14, TA15, TA16 RECESSED
SOAP DISPENSER	TA17, TA18
GRAB BAR VERTICAL	18" TA23 or TA74
GRAB BAR HORIZONTAL NOTE: TOP OF GRAB BAR MAY BE 36" WHERE USED WITH TANK TOILETS	18" TA23 or TA74; 36" TA24 or TA65 or TA75; 42" TA25 or TA66 or TA76; 48" TA26



TOILET ACCESSORY TYPE	DRAWING DESIGNATION
MIRROR ADA	TA30, TA31, TA77
MIRROR FULL LENGTH	TA32
ROBE HOOK AT ACCESSIBLE LOCATIONS (SEE ELEVATIONS FOR STANDARD HOOK HT)	TA33
SANITARY NAPKIN DISPOSAL	TA36
TOILET SEAT COVER DISPENSER	TA38
TOWEL BAR OR TOILETRY SHELF	TA53 T.B., TA54 T.S.
SPECIMEN PASS-THRU CABINET	TA60
HAND DRYER	TA80
BABY CHANGING STATION	TA85
MOP AND BROOM HOLDER	TA95
FIRE EXTINGUISHER	FE
FIRE EXTINGUISHER CABINET	FEC
EYEWASH STATION	G14
FIRST-AID KIT CABINET	

GMC
Goodwyn Mills Cawood, LLC
915 Lady Street, Suite C
Columbia, SC 29201
T 803.766.1235
GMCNETWORK.COM

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECT — GOODWYN, MILLS CAWOOD, LLC — GREENVILLE, SC — No. 101713

ISSUE	DATE
CD SET	04/17/2026

DRAWN BY: JH
CHECKED BY: JL

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-SB
GMC: ACOL240010

STATE OF SOUTH CAROLINA — REGISTERED ARCHITECT — 12/15/25 — JUSTIN L. LUCAS — COLUMBIA, SC — 6946

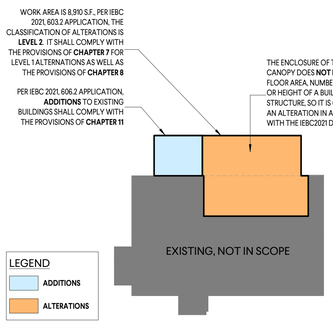
ACCESSIBILITY DATA

G1.11

4/17/2026 12:12:06 PM TEMPLATE VERSION: 2022.1

CODE NOTES

1. **ALTERNATES** INCLUDED FOR CODE ANALYSIS FOR MORE RESTRICTIVE CONDITIONS.
2. THE NEW ADDITION IS NOT SEPARATED FROM THE EXISTING BUILDING, SO THE BUILDING AREA IS ANALYZED BASED ON THE NUMBER OF STORIES IN THE EXISTING BUILDING.
3. THE **ENCLOSURE** OF THE EXISTING CANOPY DOES **NOT** INCREASE THE FLOOR AREA, NUMBER OF STORIES, OR HEIGHT OF A BUILDING OR STRUCTURE, SO IT IS CLASSIFIED AS AN **ALTERNATION** IN ACCORDANCE WITH THE IEBC2021 DEFINITIONS.



CLASSIFICATION OF WORK DIAGRAM

SCAL E: 1/64" = 1'-0"

APPLICABLE CODES & REGULATIONS

2021	International Building Code (IBC), 2021 Edition with SCBC modifications
2021	International Existing Building Code (IEBC), 2021 Edition
2021	International Fire Code (IFC), 2021 Edition with SCBC modifications
2009	International Energy Conservation Code (IECC), 2009 Edition
2021	International Fuel Gas Code (IFGC), 2021 Edition with SCBC modifications
2021	International Mechanical Code (IMC), 2021 Edition with SCBC modifications
2021	International Plumbing Code (IPC), 2021 Edition with SCBC modifications, and the following insertions: 1. Section 305.4.1, insert "18" and insert "18". 2. Section 903.1, insert "8"
2020	National Electrical Code (NEC) [NFPA-70], 2020 Edition with SCBC modifications
2017	Latest edition of the ICC A117.1, Accessible and Useable Buildings and Facilities.

TABLE 1 FLOOD HAZARD INFORMATION & FLOOD LOADS

FLOOD HAZARD AREA

Flood Map Information: Flood Zone: **"X"** *(A Floodplain Permit is required for A and V Zones)*
Community Number: **450138** Panel Number: **0278J**

Is the Project Site in a 100 Year Flood Plain? ☐ Yes ■ No
Base Flood Elevation (NGVD or FIRM) N/A MSL
Design Flood Elevation (IBC 1612.3 and ASCE 24) N/A MSL

NON HIGH-VELOCITY WAVE ACTION

Elevation of Lowest Proposed Floor (Meet ASCE 24 Chapter 2) N/A MSL
Dry floodproofing (per ASCE 24) ☐ Yes ■ No

HIGH-VELOCITY WAVE ACTION

Elevation of bottom of Lowest horizontal Strucutral Member of lowest floor N/A MSL
Flotation resistant (per ASCE 24) ☐ Yes ■ No
Breakaway wall (per ASCE 24) ☐ Yes ■ No

IBC 1612 and SE-510, as applicable

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: Justin Lucas (Architect) Engineer 12/15/2025 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

"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: N/A
Engineer or Registered Landscape Architect (Circle one) Date

TABLE 2 SOILS & SITE

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

SOILS CLASSIFICATION
Site Class (per IBC 1613.3.2) **D**
Classes Soil of Materials (UCS System) (per IBC 1803.5.1) **SP-SM**
Allowable Footing Bearing Pressure: **3,000** psf

MINIMUM DESIGN SOIL BEARING LOAD (IBC table 1806.2) **2,000** psf

COMPACTION
Subgrade: **98** Percent
Base: **100** Percent
Other: N/A Percent

MINIMUM DESIGN SOIL LATERAL LOAD (IBC 1610.1) **60** psf

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

ELEVATIONS
Elevation of Water Table: N/A MSL
Elevation of lowest footing: **273.09** MSL
Elevation of lowest floor or basement: **276.59** MSL

NOTE: Where fire wall is necessary to separate buildings, each building is to be provided individual code criteria Tables 3 through 14. See IBC 503.1.2.

TABLE 3 BASIC BUILDING CODE INFORMATION

CONSTRUCTION CLASSIFICATION (IBC 602)	Type: **II-B**
OCCUPANCY CLASSIFICATION (indicate all) IBC 302 & 504.2)	**B BUSINESS**
MOST RESTRICTIVE OCCUPANCY CLASSIFICATION (IBC Table 504.3, 504.4 & 506.2)	**B BUSINESS**

Does building require Incidental Use Area Separation? (IBC 509.1)	☐ Yes	■ No
Mixed Occupancy (IBC 508)	☐ Yes	■ No
Non separated (IBC 508.3)	☐ Yes	■ No
Separated (IBC 506.2.2, 506.2.4 & 508.4)	☐ Yes	■ No
2-way Communication Required (IBC 1009.6.5 & 1009.8)	☐ Yes	■ No
Fire Apparatus Access and Water Line (IFC 503 & 507)	■ Yes	☐ No

OTHER FIRE PROTECTION SYSTEMS, DEVICES, or FEATURES

If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke-evacuation/control/compartments - IBC 414.1.3.)

FIRE EXTINGUISHERS, FULLY SPRINKLERED, FIRE ALARM

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 Chapter 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: **44,747** SF
Work Area: **8,834** SF

☐ **Option 3: Performance Compliance Method (Chapter 13)**

Original Building Code and Edition Applicable at time of Construction: International Building Code (IBC), 2012 Edition

Existing Sprinkler System?	■ Yes (Partial)	☐ No
Existing Fire Alarm System?	☐ Manual	■ Auto
Seismic Evaluation Required?	☐ Yes	■ No
Major Facility Project? (See 48-52-810(10)(a))	☐ Yes	■ No

Change of Occupancy:
Existing Occupancy Classification(s): **B Business**
New Occupancy Classification(s): **B Business**

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

TABLE 4 BUILDING HEIGHT AND AREA

BUILDING HEIGHT

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
IBC Table 504.3	**26'-0"**	N/A	**75'-0"**	N/A
IBC Table 504.4	N/A	**2 (EXISTING)**	N/A	**4**
Total Height (including any Allowable Increase)	**26'-0"**	**2 (EXISTING)**	**75'-0"**	**4**

BUILDING AREA

AREA LIMIT AS ALLOWED BY IBC TABLE 506.2 (area limiatation per story) **69,000** SF

AREA INCREASES AS ALLOWED BY IBC SECTIONS 506.2 & 506.3 **N/A** SF (maximum modified area for each story)

EXPLANATION OF INCREASES:

AREAS AS ALLOWED IN IBC

Story/Level: **FIRST FLOOR**	**69,000**	SF (area per story)
Story/Level: **SECOND FLOOR**	**69,000**	SF (area per story)
Story/Level: N/A	N/A	Sf (area per story)
Story/Level: N/A	N/A	SF (area per story)
Story/Level: N/A	N/A	SF (area per story)

TOTAL ALLOWED AREA OF BUILDING ALLOWED BY IBC (sum of all stories) **138,000** SF

AREAS AS DESIGNED			**ACCESSORY OCCUPANCY** (IBC 508.2 & TABLE 506.2)	
Story: **FIRST FLOOR**	**32,444**	SF (area this story)	**1,077**	SF (area this story)
Story: **SECOND FLOOR**	**12,410**	SF (area this story)	N/A	SF (area this story)
Story: N/A	N/A	Sf (area this story)	N/A	SF (area this story)
Story: N/A	N/A	SF (area this story)	N/A	SF (area this story)
Story: N/A	N/A	SF (area this story)	N/A	SF (area this story)

TOTAL DESIGNED AREA OF BUILDING (summary of all stories) **44,854** SF

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]
FIRST FLOOR (INCLUDING ALTERNATES)	**BUSINESS**	**5,763 GSF**	**150 GSF**	**39**	
	STORAGE	**1437 GSF**	**300 GSF**	**5**	
	LAB	**18,512 NSF**	**50 NSF**	**371**	
	MECHANICAL	**494 GSF**	**300 GSF**	**2**	
	CLASSROOM	**740 NSF**	**20 NSF**	**37**	
	Subtotal Design Occupant Load for This Story/Level				**454**
SECOND FLOOR (NO CHANGE)	**BUSINESS**	**5,158 GSF**	**150 GSF**	**35**	
	CLASSROOM	**4,064 NSF**	**20 NSF**	**203**	
	Subtotal Design Occupant Load for This Story/Level				**238**
N/A					
Total Building Design Occupant Load					**692 [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 B (3) for each function and enter result, rounded up to the nearest whole. [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]

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 Communication Systems Required	(IFC 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 Radio Coverage (IFC Section 510)
Provide test to confirm if Communication Coverage Enhancement is Required? ☐ Yes ■ No
If No, Please Explain Why Not:

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)	N/A	N/A	N/A	N/A
Bearing Walls: (per IBC Table 601) Exterior	**0** HR	**0** HR	N/A	N/A
Interior	**0** HR	**0** HR	N/A	N/A
Nonbearing Walls & Partitions (IBC Table 601, including footnote "d" & 602) Exterior	**0** HR	**0** HR	N/A	N/A
Interior	**0** HR	**0** HR	N/A	N/A
Floor Construction (IBC Table 601) (including supporting beams & joists)	**0** HR	**0** HR	N/A	N/A
Roof Construction (IBC Table 601) (including supporting beams & joists)	**0** HR	**0** HR	N/A	N/A
Fire Walls (IBC Section 706)	**EXISTING**	**EXISTING**	**EXISTING**	N/A
Fire Barriers (IBC Section 707)	**EXISTING**	**EXISTING**	**EXISTING**	N/A
Shaft Enclosures (IBC Section 713)	**0** HR	**0** HR	N/A	N/A
Fire Partitions (IBC Table 708)	N/A	N/A	N/A	N/A
Opening & Protective Listing by Category (fire shutters, doors, etc. - IBC Section 716)	**EXISTING**	**EXISTING**	**EXISTING**	N/A
Others (as required by Designer)	N/A	N/A	N/A	N/A

TABLE 8 STRUCTURAL DESIGN INFORMATION

RISK CATEGORY (IBC Table 1604.5) **III**

LIVE LOADS
Floor Live Load (s)

Occupancy / Use: **CLASSROOMS**	F = **40**	PSF
Occupancy / Use: **STORAGE**	F_{11} = **125**	PSF
Occupancy / Use: **CORRIDORS, WORKSHOP, AND RESTROOMS**	F_{11} = **100**	PSF
Occupancy / Use: **OFFICES**	F_{11} = **50**	PSF
Roof Live Load	R_{11} = **20**	PSF
Ground Snow Load (IBC Figure 1608.2 or ASCE 7)	p_f = **10**	PSF

WIND LOADS
Analysis Procedure (ASCE 7 or IBC 1609.6): **ASCE 7**
Ultimate Design Wind Speed: (IBC Fig's. 1609.3(1)-(4)): V = **125** MPH
Exposure Category (IBC 1609.4.3): **C**
Internal Pressure Coefficient (ASCE 7): GC_{pi} = **+/- 0.55**
External Pressure Coefficient (ASCE 7): GC_p = **SEE S-001**
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 = **1.25**
Site Class (IBC 1613.2.2): **D**
Mapped Spectral Response Accelerations: S_S = **0.346** S_1 = **0.114**
Design Spectral Response Acceleration Parameters: S_{DS} = **0.352** S_{D1} = **0.180**
Seismic Design Category: (IBC Tables 1613.2.5, 1613.2.5.1 or 1613.2.5.2): **C**
Basic Seismic Force Resisting System: **Steel Systems not Specifically Detailed for Seismic Resistance**
Design Base Shear (ASCE 7 Chapter 12): **5** KIPS
Seismic Response Coefficient(s) (ASCE 7): C_s = **0.147**
Response Modification Factor(s) (ASCE 7): R = **3**
Analysis Procedure: **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.

TABLE 9 PLUMBING INFORMATION

WATER SYSTEM: Service Line Size: **EXISTING** Inches
Peak Flow: **EXISTING** GPM Total Demand: **EXISTING** No. Fixture Units

SANITARY SEWER SYSTEM: Loading: **EXISTING** GPD
Service Line Size: **EXISTING** Inches Slope: **EXISTING** min inches/ft

MINIMUM PLUMBING FIXTURES REQUIRED BY OCCUPANCY (IPC Section 403 & Table 403.1)
All Occupancy Classification(s) (same as OSE Table 3): **EXISTING - GROUP B**
Total Building Design Occupant Load (same as OSE Table 5): **692**

1. Occupancy: **B** Total Load for this Occupancy: **692** Male: **346** Female: **346**
Water Closets / Urinals (IPC Section 424.2): MALE: **8** (# Urinals allowed **4**) FEMALE: **8**
Lavatories: MALE: **6** FEMALE: **6**
Drinking Fountains **7**
Unisex Toilet N/A
Service Sink **1**
Other (list): N/A

2. Occupancy: N/A Total Load for this Occupancy: N/A Male: N/A Female: N/A
Water Closets / Urinals (IPC Section 424.2): MALE: N/A (# Urinals allowed N/A) FEMALE: N/A
Lavatories: MALE: N/A FEMALE: N/A
Drinking Fountains N/A
Unisex Toilet N/A
Service Sink N/A
Other (list): N/A

3. Occupancy: N/A Total Load for this Occupancy: N/A Male: N/A Female: N/A
Water Closets / Urinals (IPC Section 424.2): MALE: N/A (# Urinals allowed N/A) FEMALE: N/A
Lavatories: MALE: N/A FEMALE: N/A
Drinking Fountains N/A
Unisex Toilet N/A
Service Sink N/A
Other (list): N/A

TOTAL BUILDING COUNT REQUIRED/PROVIDED (add all occupancies)

Note: Round up on all numbers Whole numbers only	REQUIRED Male	REQUIRED Female	PROVIDED Male	PROVIDED Female
Total Water Closets / Urinals	**8** (# Urinals allowed **4**)	**8**	**10 (EXISTING)** (# Urinals allowed **5**)	**10 (EXIST.)**
Total Lavatories	**6**	**6**	**6 (EXISTING)**	**6 (EXIST.)**
Total Drinking Fountains	**7**		**9 (EXISTING)**	
Total Unisex Toilets	N/A		N/A	
Total Service Sinks	**1**		**1 (EXISTING)**	
Total Other (list):	N/A		N/A	

TABLE 10 MECHANICAL INFORMATION

AIR COMFORT SYSTEMS:
Overall Thermal Transfer Value (OTTV): N/A BTU / (HR x $^{\circ}$F x SF)
Building Cooling Load: **240** SF / Ton
Building Heating Load: **32.7** BTU / (HR x SF)

OTHER LOADING FEATURES
Glass: U Factor: **EXISTING** Window to wall ratio: **0%**
Insulation Values: Roof: **R-35** Exterior Walls: **R-16**
Outside Air minimum while occupied: **2000** CFM **25** Occupants

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT
Briefly describe mechanical system: **The renovation spaces are served by an existing packaged VAV system. The new addition is served by a new grade mounted packaged unit. Shop spaces are served by a dust collection system.**

TABLE 11 ELECTRICAL INFORMATION

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

ELECTRICAL SERVICE INFORMATION:
Service Voltage/Phase: **480/277 V/ 3 PHASE 4 WIRE** Amperes: **EXISTING**
Service Entrance Conductors Size: **EXISTING** Quanity per Phase: **EXISTING**
Total Connected Load: **EXISTING** KVA Estimated Demand Factor: **EXISTING**
Estimated Maximum Demand: **EXISTING** Amperes
Available Fault Current in Symmetrical Amperes: **EXISTING** Amperes
Interrupting capacity of Service Overcurrent Device: **EXISTING** 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: **EXISTING** ☐ Other Local Metal Underground Systems or Structures

EMERGENCY SERVICE INFORMATION:
Generator 1: ☐ Emergency ☐ Standby ☐ Op. Standby ____Voltage/Phase _____ Fuel
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 ☐ **EXISTING**
Fire Alarm System Method of Communication to Monitoring Station (please specify): **EXISTING**
Fire Alarm Pathway Survivability: ☐ Level 0 ☐ Level 1 ☐ Level 2 ☐ Level 3
Carbon Monoxide Detection Required? ☐ Yes ☐ No
Emergency Responder Radio Coverage Enhancement Req.? ☐ Yes ☐ No

LIGHTNING PROTECTION PROVIDED ☐ Yes ■ No

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STATE OF SOUTH CAROLINA — GOODWYN, MILLS CAWOOD, LLC — GREENVILLE, SC No. 101713 — REGISTERED ARCHITECT

ISSUE DATE 04/17/2026 CD SET
DRAWN BY: JH
CHECKED BY: JL

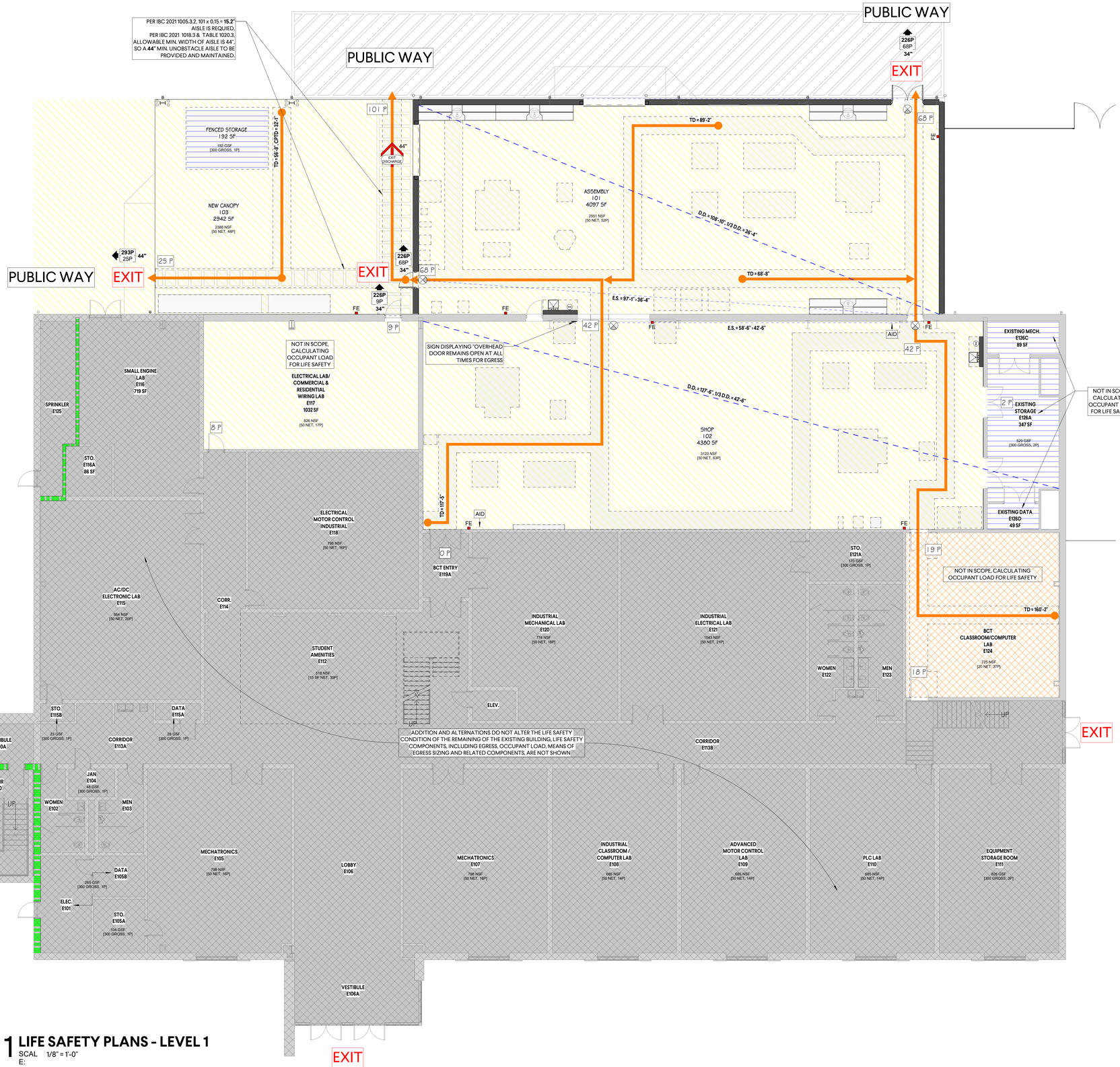
AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-SB
GMC: ACOL240010

STATE OF SOUTH CAROLINA — 12/15/25 — JUSTIN L. LUCAS COLUMBIA, SC 8946 — REGISTERED ARCHITECT

LIFE SAFETY - CODE ANALYSIS

G2.00



OCCUPANCY LEGEND

- ACCESSORY STORAGE, MECHANICAL EQUIP ROOM
- EDUCATIONAL - CLASSROOM
- EDUCATIONAL - SHOP, VOCATIONAL

PLAN LEGEND

- FE — FIRE EXTINGUISHER, UL RATING: 2A:40B:C
- 60" EXIT DISCHARGE — EXIT DISCHARGE W/ CLEAR EXIT WIDTH
- DISTANCE OF TRAVEL
- 1 - HR FIRE BARRIER
- EGRESS DIRECTION / 0P MAX. OCCUPANT LOAD / 0P DESIGNED OCCUPANT LOAD / 0" EGRESS WIDTH, CLEAR. — EXIT SYMBOL, NUMBER VARIES
- EXIT SIGN
- D.D. = X'-X" — LENGTH OF THE MAX. OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA
- E.S. = X'-X" — SEPARATION DISTANCE OF EXITS OR EXIT ACCESS DOORWAYS
- TD = X'-X" — TRAVEL DISTANCE
- CPTD = X'-X" — COMMON PATH TRAVEL DISTANCE

GENERAL NOTES - LIFE SAFETY PLAN

1. THE BUILDING IS **FULLY-SPRINKLERED**.
2. PER IBC2021, TABLE 1017.2, MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS **300 FEET WITH** AN AUTOMATIC SPRINKLER SYSTEM.
3. PER IBC2021, TABLE 1006.2.1, THE COMMON PATH OF EGRESS TRAVEL DISTANCE SHALL **NOT** EXCEED **100 FEET** FOR BUSINESS OCCUPANCY.
4. PER IBC2021, 1005.3.2, EGRESS WIDTH PER OCCUPANT IS **0.15** FOR EGRESS COMPONENTS WHEN EQUIPPED **WITH** AN AUTOMATIC SPRINKLER SYSTEM.
5. **226** IS THE MAXIMUM OCCUPANT LOAD THROUGH A 36" WIDE DOOR WITH A 34" CLEAR WIDTH, WHEN EQUIPPED **WITH** AN AUTOMATIC SPRINKLER SYSTEM.
6. PER IBC2021, TABLE 1020.3, **44"** IS THE MINIMUM REQUIRED CORRIDOR WIDTH.

PLAN NORTH / TRUE NORTH

1 LIFE SAFETY PLANS - LEVEL 1

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

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AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-SB
GMC: ACOL240010

STATE OF SOUTH CAROLINA — 12/15/25 — JUSTIN L. LUCAS — COLUMBIA, SC — 8946 — REGISTERED ARCHITECT

LIFE SAFETY PLAN

G2.01

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UTILITY NOTES

1. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE STATE OF SOUTH CAROLINA AND CITY OF CAYCE.
2. SEWER LINES (INCLUDING LATERALS) SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D-3034.
3. SEWER CLEANOUTS SHALL BE IN ACCORDANCE WITH THE CITY OF WEST COLUMBIA DETAILS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT UTILITY EXIT POINTS, EXIT PORCHES, ETC.
5. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD LOCATIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED ON THE PLAN OR 12", WHICHEVER IS LESS, CONTACT THE DESIGN ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND/OR FINAL CONNECTION OF SERVICES.
7. A MINIMUM OF 10 FEET HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN WATER AND SEWER LINES. THE VERTICAL SEPARATION IS TO BE A MINIMUM OF 18".
8. REFER TO THE PHOTOMETRIC AND ARCHITECTURAL PLANS FOR SITE LIGHTING ELECTRICAL DESIGN AND LAYOUT.
9. ALL SITEWORK SHALL MEET OR EXCEED THE CITY OF CAYCE STANDARDS AND THE SITEWORK SPECIFICATIONS.
10. LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY GENERAL CONTRACTOR & THE PROPER UTILITY COMPANY PROVIDING SERVICE.
11. GENERAL CONTRACTOR SHALL PROVIDE 2' x 2' x 6" THICK BLACK CONCRETE APRON AT ALL CLEANOUTS OUTSIDE OF BUILDING.
12. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS.
13. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.
14. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
15. GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.

LEGEND

- 990 — EXISTING CONTOUR
- 990 — PROPOSED CONTOUR
- SS — SANITARY SEWER LINE

(±87)LF 4" PVC SEWER LATERAL @ 1.54% SLOPE

(±75)LF 4" PVC SEWER LATERAL @ 1.50% SLOPE

(±46)LF 4" PVC SEWER LATERAL @ 1.50% SLOPE

(±25)LF 4" PVC SEWER LATERAL @ 9.30% SLOPE

CONNECT TO EX. SEWER
APPROX. INV. ELEV. = 269.27

IE: 270.61

IE: 271.73

IE: 272.42

IE: 274.70

(±20)LF 3" PVC SEWER LATERAL @ 4.60% SLOPE

(±20)LF 4" PVC SEWER LATERAL @ 2.95% SLOPE

(±20)LF 4" PVC SEWER LATERAL @ 2.00% SLOPE

3" SANITARY SEWER CONNECTION TO BLDG (INV. 271.53 RE: MEP PLANS)

4" SANITARY SEWER CONNECTION TO BLDG (INV. 272.32 RE: MEP PLANS)

4" SANITARY SEWER CONNECTION TO BLDG (INV. 272.82 RE: MEP PLANS)

3" SANITARY SEWER CONNECTION TO BLDG (INV. 274.90 RE: MEP PLANS)

2% MAX CROSS-SLOPE ACROSS ALL CONCRETE SLABS

NEW ASSEMBLY ROOM (RE: ARCH PLANS)

NEW CANOPY (RE: ARCH PLANS)

EX. 4" SEWER TO BE REMOVED

EX. 4" CLEANOUT TO BE REMOVED

EXPANDED FENCED MECH YARD (RE: ARCH PLANS)

EIGHTE SE TU E, TY .

INLET TECTI N, TY .

G TE = 7 .73
IN = .2

SE E C IN = 2 2.

EX. FI E LINE

NOTE: ALL EXISTING CONDITIONS PER DESIGN DRAWINGS BY CHAO AND ASSOCIATES, INC. NO SURVEY PROVIDED. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.

EXISTING BUILDING
FFE = 277.09

N

0 10 20 30

SCALE: 1" = 10'

GMC
117 Welborn Street
Greenville, SC 29601
T 864.527.0460

SOUTH CAROLINA GOODWYN MILLS CAWOOD, LLC No. 6461 CERTIFICATE OF AUTHORIZATION

1" 0" 5" 1"

ISSUE
CONSTRUCTION SET

DATE
05.07.2025

CHECKED BY: ML
DRAWN BY: CS

NOT FOR CONSTRUCTION

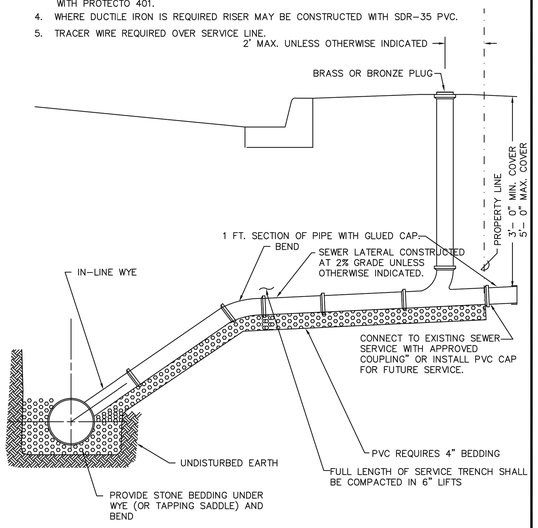
GRADING AND UTILITY PLAN

MTC AMSC CENTER
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC 29170
GMC Project#CGREXXXXXX

C-6.0

NOTES:

1. WYE CONNECTIONS ARE STANDARD FOR NEW SEWER MAIN CONSTRUCTION.
2. FORCE MAINS CARRYING DOMESTIC WASTEWATER FROM SANITARY CONVENIENCES WITHIN A SINGLE BUILDING, MAY BE CONNECTED TO A 4" CITY GRAVITY SERVICE LINE PROVIDED THAT GRAVITY FLOW WILL BE MAINTAINED DURING PROPOSED MAXIMUM DISCHARGE RATE FOR THE GRINDER OR EFFLUENT PUMP(S).
3. WHERE COVER IS LESS THAN 3 FT. DUCTILE IRON MUST BE USED. ALL DUCTILE IRON SEWER PIPE AND FITTINGS SHALL BE INTERNALLY COATED WITH PROTECTO 401.
4. WHERE DUCTILE IRON IS REQUIRED RISER MAY BE CONSTRUCTED WITH SDR-35 PVC.
5. TRACER WIRE REQUIRED OVER SERVICE LINE.

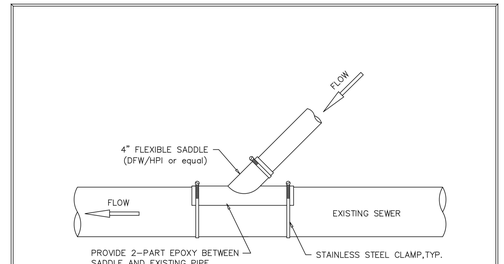


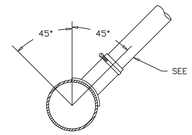
STANDARD DETAIL

CITY OF CAYCE

SANITARY SEWER SERVICE

APPROVED: | # CAYCE-11A





NOTE:
THIS DETAIL TO BE USED FOR TAPS ON EXISTING SEWER MAINS 12 INCHES IN DIAMETER AND LESS.

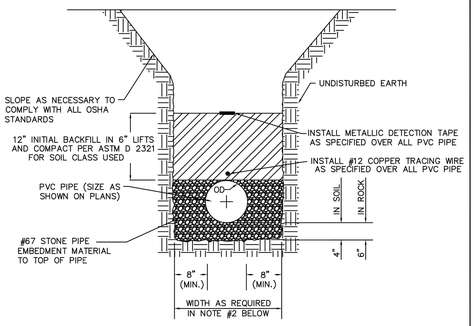
NOT FOR USE ON NEW CONSTRUCTION.

STANDARD DETAIL

CITY OF CAYCE

TAPPING SADDLE ON EXISTING SEWER

APPROVED: | # CAYCE-9



PVC GRAVITY SEWER TRENCH DETAIL

NOT TO SCALE

NOTES:

1. WHERE THE TRENCH WILL BE WITHIN THREE FEET OF THE EDGE OF THE EXISTING PAVEMENT, FLOWABLE FILL MAY BE REQUIRED FOR BACKFILL MATERIAL. CONSULT ENCROACHMENT PERMITS FOR SPECIFIC REQUIREMENTS.
2. MINIMUM WIDTH SHALL BE NOT LESS THAN THE GREATER OF EITHER THE PIPE OUTSIDE DIAMETER PLUS 16 IN. OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 IN.
3. NO BOULDERS OR STONES WILL BE USED IN INTIAL BACKFILL OR 2 FEET ABOVE TOP OF PIPE.
4. PVC PIPE NOT ALLOWED WITH LESS THAN 3'-0" COVER.

STANDARD DETAIL

CITY OF CAYCE

PVC GRAVITY SEWER TRENCH DETAIL

APPROVED: | # CAYCE-23A

GMC
117 Welborn St.
Greenville, SC 29601
T 864.527.0460

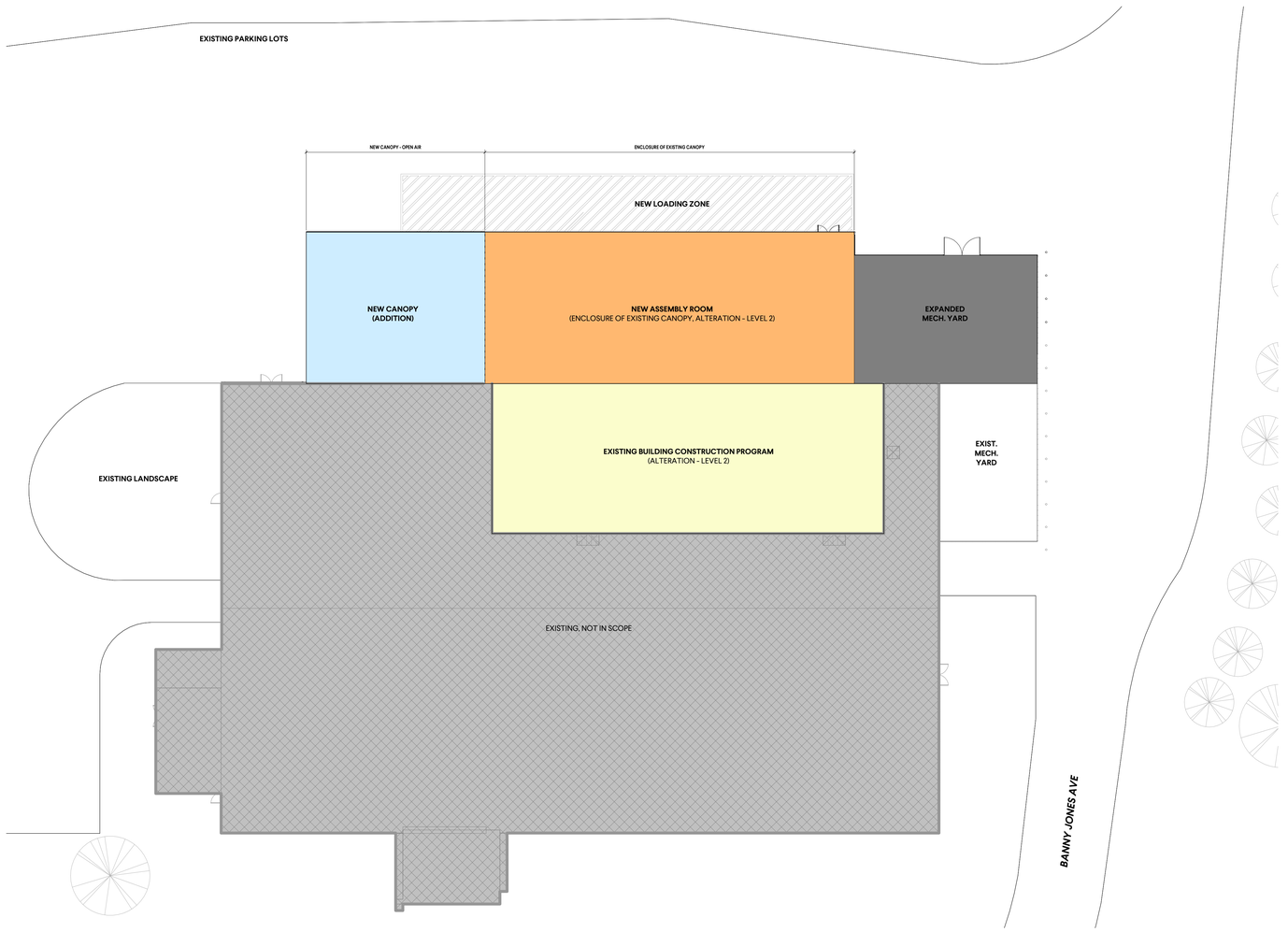
ISSUE	DATE

PROJECT MANAGER: MGL
DESIGNER(S): XXX

UTILITY DETAILS

MTC AMSC CENTER
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC 29170
STATE PROJECT: H59-N301-SB

C-6.1



PLAN NORTH TRUE NORTH

1 ARCH SITE PLAN

SCAL E: 1/16" = 1'-0"

ARCHITECTURAL SITE PLAN LEGEND

- NOT IN SCOPE
- STRIPED LOADING AREA
- EXISTING OPEN-AIR CONSTRUCTION TO REMAIN
- NEW FENCED EQUIPMENT YARD
- NEW ASSEMBLY ROOM
- RENOVATED SHOPS AND CLASSROOM
- ALTERNATE #1 - OPEN-AIR CONSTRUCTION

GMC

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STATE OF SOUTH CAROLINA
GOODWYN, MILLS CAWOOD, LLC
GREENVILLE, SC
No. 101713
REGISTERED ARCHITECT

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CHECKED BY: JL

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-SB
GMC: ACOL240010

STATE OF SOUTH CAROLINA
12/15/25
JUSTIN L. LUCAS
COLUMBIA, SC
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ARCHITECTURAL SITE PLAN

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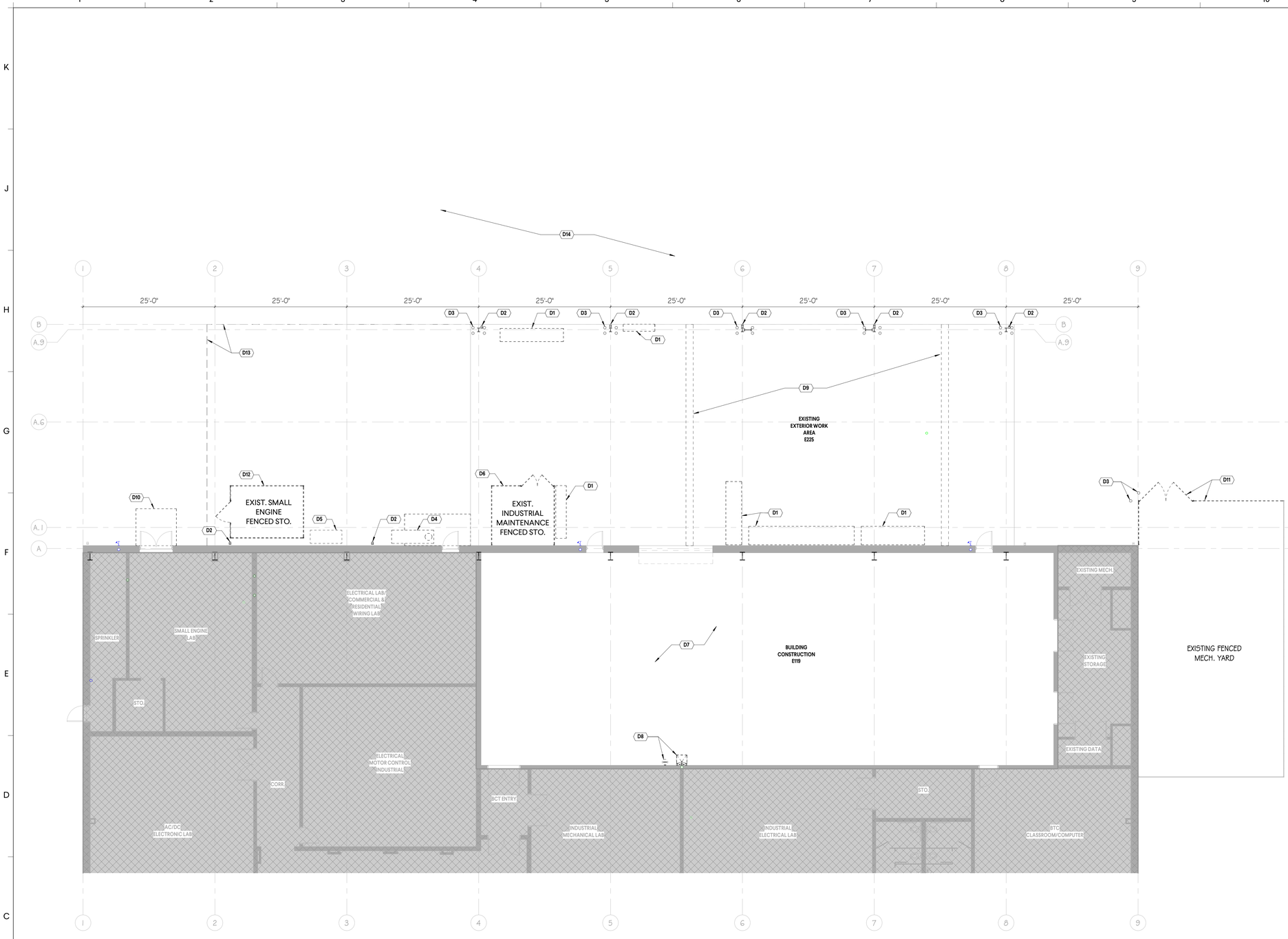

PLAN NORTH

TRUE NORTH

1 DEMOLITION FLOOR PLAN

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

GENERAL NOTES - DEMOLITION PLAN

1. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. GENERAL CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION IMMEDIATELY, PRIOR TO PROCEEDING WITH WORK.
2. GENERAL CONTRACTOR TO PROTECT ALL EXISTING WORK TO REMAIN THROUGHOUT CONSTRUCTION.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SUB FLOOR SURFACES AND PREPARING TO ACCEPT NEW FLOORING FINISH, REFERENCE FINISH LEGEND AND SCHEDULE.
4. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ANY AND ALL EXISTING FIRE RATED CONSTRUCTION.
5. GENERAL CONTRACTOR SHALL REMOVE ALL REMAINING EXISTING ITEMS WITHIN ROOMS PRIOR TO EXECUTION OF WORK. REFER TO DEMOLITION PLAN AND COORDINATE W/ OWNER FOR EXTENT OF SALVAGE / DEMOLITION W/ THESE ITEMS.
6. PROTECT ALL EXISTING WALL MOUNTED FIRE ALARM DEVICES AND OTHER ITEMS DURING CONSTRUCTION. COORDINATE WITH OWNER ON IF THEY NEED TO BE REMOVED PRIOR TO EXECUTION OF WORK.
7. PATCH AND REPAIR ALL EXISTING FINISHES, AS REQUIRED, DUE TO DEMOLITION WORK. RESTORE FINISH CONTINUITY, MATCHING ADJACENT EXISTING FINISHES, UNLESS OTHERWISE INDICATED.

KEYNOTES - DEMOLITION

KEY	KEYNOTE
D1	COORDINATE WITH THE OWNER FOR SALVAGE AND REINSTALLATION OF EXISTING RACKS AND SHELVES. PART OF RACK TO BE GIVEN TO ELECTRICAL PROGRAM.
D2	DEMOLISH EXISTING DOWNSPOUT, TYP.
D3	DEMOLISH ALL EXISTING BOLLARDS THAT SURROUND EXISTING COLUMN IN THEIR ENTIRETY, REPAIR CONCRETE SLAB AS REQUIRED.
D4	EXISTING WELDING EXHAUST SYSTEM TO BE SALVAGED AND RELOCATED. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS DURING DEMOLITION TO NOT DAMAGE SYSTEM. REFER TO MECHANICAL DRAWING.
D5	EXISTING FLAMMABLE MATERIALS STORAGE TO BE SALVAGED AND RELOCATED TO NEW LOCATION SHOWN ON PLANS, REFER TO MECHANICAL DRAWINGS.
D6	EXISTING FENCE AND GATE TO BE SALVAGED AND RELOCATED TO NEW LOCATION SHOWN ON PLANS. COORDINATE WITH THE OWNER PRIOR TO REINSTALLATION.
D7	SAWCUT AND REPATCH PORTION OF THE SLAB AS REQUIRED FOR THE INSTALLATION OF NEW PLUMBING FIXTURES, REFER TO PLUMBING DRAWINGS (ALTERNATE #1). EXISTING EPOCY FLOORING TO BE REMOVED IN ITS ENTIRETY TO RECEIVE NEW URETHANE CONCRETE COATING SYSTEM, REFER TO FINISH SCHEDULE.
D8	DEMOLISH EXISTING PLUMBING FIXTURES, REFER TO PLUMBING DRAWINGS. REPAIR AND PATCH CONSTRUCTION AND FINISHES AFFECTED BY DEMOLITION.
D9	RETAIN EXISTING EXTERIOR CONCRETE SLAB, SAWCUT AND REPATCH PORTION OF THE EXISTING CONCRETE SLAB AS REQUIRED FOR THE INSTALLATION OF SEWER SYSTEM, REFER TO PLUMBING DRAWINGS.
D10	DEMOLISH EXISTING CONCRETE LANDING AS REQUIRED FOR ACCESSIBILITY REGRADING, VERIFY IN FIELD
D11	DEMOLISH PORTION OF THE EXISTING FENCE AND GATE TO RECEIVE NEW FENCE AND GATE
D12	DEMOLISH EXISTING FENCE AND GATE.
D13	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO RECEIVE NEW CONCRETE FLOOR SLAB.
D14	EXCAVATE THE EXISTING SITE AS REQUIRED FOR INSTALLATION OF NEW SEWER SYSTEM. REFER TO PLUMBING AND CIVIL DRAWINGS.

PLAN LEGEND

- NEW DOOR
- NEW WALL
- EXISTING DOOR
- EXISTING WALL
- DEMOLISHED ITEMS, REFER TO KEYNOTES
- NOT IN SCOPE

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STATE OF SOUTH CAROLINA
12/15/25
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DEMOLITION PLAN

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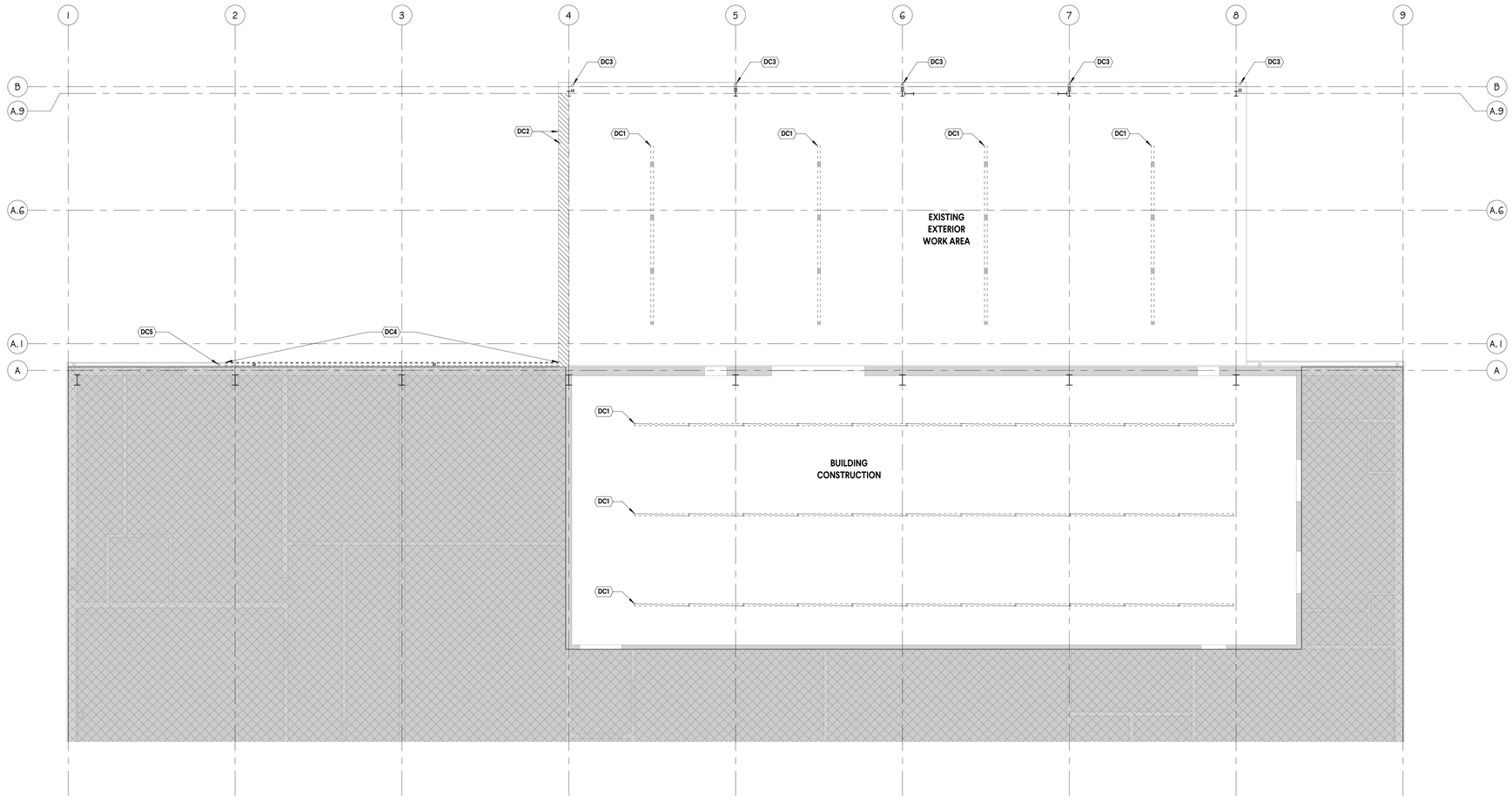

PLAN NORTH TRUE NORTH

1 DEMOLITION REFLECTED CEILING PLAN

SCAL E: 1/8" = 1'-0"

GENERAL NOTES - DEMOLISHED RCP

1. REFER TO OTHER DISCIPLINES' DRAWINGS FOR THE DEMOLITION OF ITEMS WITHIN THEIR SCOPE OF WORK.
2. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. GENERAL CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION IMMEDIATELY, PRIOR TO PROCEEDING WITH WORK.
3. GENERAL CONTRACTOR TO PROTECT ALL EXISTING WORK TO REMAIN THROUGHOUT CONSTRUCTION.
4. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ANY AND ALL EXISTING FIRE RATED CONSTRUCTION.
5. PROTECT ALL EXISTING WALL MOUNTED FIRE ALARM DEVICES AND OTHER ITEMS DURING CONSTRUCTION. COORDINATE WITH OWNER ON IF THEY NEED TO BE REMOVED PRIOR TO EXECUTION OF WORK.

KEYNOTES - DEMOLITION CEILING PLAN

KEY	KEYNOTE
DC1	DEMOLISH EXISTING LIGHTING FIXTURES AND WIRE IN THEIR ENTIRETY, TYP.
DC2	DEMOLISH EXISTING SOFFIT AND RAKED TRIM IN THEIR ENTIRETY.
DC3	DEMOLISH EXISTING DOWNSPOUT TO RECEIVE NEW DOWNSPOUT, REPAIR GUTTER AS REQUIRED, TYP.
DC4	DEMOLISH EXISTING GUTTER AND DOWNSPOUTS IN THEIR ENTIRETY, TYP.
DC5	CUT OPENING IN EXISTING GUTTER TO RECEIVE NEW DOWNSPOUT

DEMOLISHED RCP LEGEND

- NOT IN SCOPE
- EXISTING LIGHTING FIXTURE
- DEMOLISHED ITEMS, REFER TO KEYNOTES
- DEMOLISHED ITEMS, REFER TO KEYNOTES

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STATE OF SOUTH CAROLINA
12/15/25
JUSTIN L. LUCAS
COLUMBIA, SC
8946
REGISTERED ARCHITECT

DEMOLITION REFLECTED CEILING PLAN

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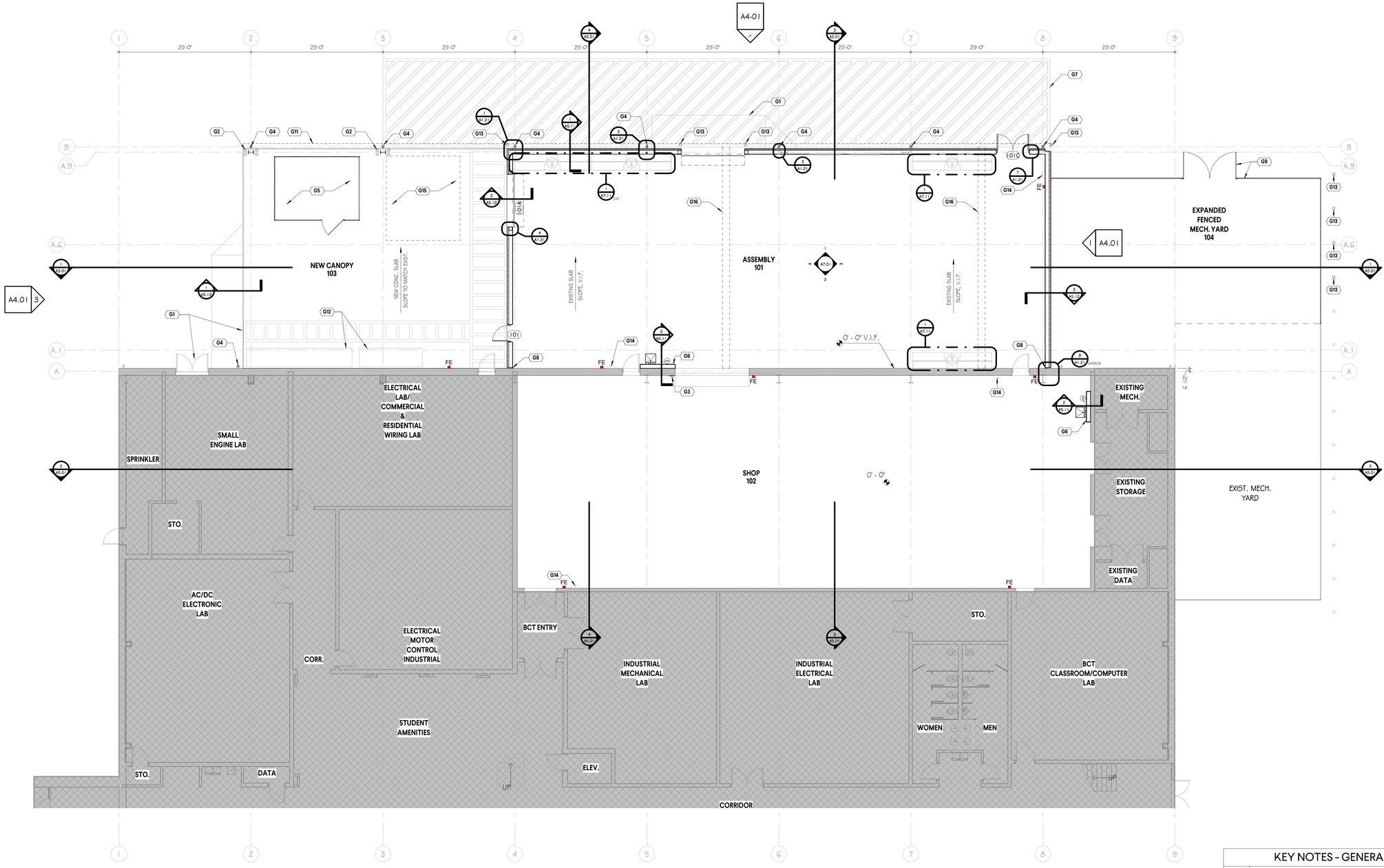

PLAN NORTH TRUE NORTH

1 REFERENCE PLAN

SCAL 1/8" = 1'-0"
E:

FINISH LEGEND

KEY	MATERIAL	BASIS-OF-DESIGN	STYLE / COLOR	LOCATION	NOTES
FLOOR					
RFS	RESINOUS FLOORING SYSTEM	-	FINISH TO BE SELECTED BY OWNER	REFER TO ROOM FINISH SCHEDULE	PREPARE THE EXISTING FLOORING SURFACE TO RECEIVE NEW RESINOUS FLOORING SYSTEM
C-1	NEW CONCRETE SLAB	-	REFER TO CIVIL DRAWINGS	CANOPY, EXPANDED MECH. YARD	-
WALL					
PNT-1	PAINT	SHERWIN WILLIAMS	SW 7005 - PURE WHITE	REFER TO ROOM FINISH SCHEDULE	-
PNT-2	PAINT	SHERWIN WILLIAMS	SW 7059 - UNUSUAL GRAY	REFER TO ROOM FINISH SCHEDULE	-
RB-1	RUBBER BASE	TARKETT - JOHNSONITE	40 BLACK B	REFER TO ROOM FINISH SCHEDULE	RUBBER BASE IS NOT REQUIRED AT BRICK VENEER OR SOLID SURFACE WALL COVERING
WC-1	WALL COVERING	CORIAN PANEL	ARTISTA MIST	REFER TO ROOM FINISH SCHEDULE	-
EXTERIOR					
PNT-3	PAINT	SHERWIN WILLIAMS	SW 9562 - FORTITUDE	REFER TO ROOM FINISH SCHEDULE	-

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	CEILING	WALL				COMMENTS
					EAST	NORTH	SOUTH	WEST	
101	ASSEMBLY	RFS	RB-1	PNT-1	3/A7.01	1/A7.01	2/A7.01	4/A7.01	REFER TO CEILING FINISH LEGEND AND GENERAL NOTES-INTERIOR ELEVATIONS
102	SHOP	RFS	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-1	REFER TO CEILING FINISH LEGEND AND GENERAL NOTES-INTERIOR ELEVATIONS
103	NEW CANOPY	C-1	-	PNT-3	-	PNT-3	PNT-3	-	REFER TO CEILING FINISH LEGEND AND GENERAL NOTES-INTERIOR ELEVATIONS; EXTERIOR WALLS SHALL NOT RECEIVE PAINT
104	EXPANDED FENCED MECH. YARD	C-1	-	-	-	-	-	-	PROVIDE CONCRETE SLAB AT EQUIPMENT, PROVIDE OPENINGS AS REQUIRED. PAD SHALL BE 6 INCES LARGER IN ALL DIRECTIONS THAN THE EQUIPMENT.

KEY NOTES - GENERAL CONSTRUCTION

KEY	KEYNOTE
G1	EXISTING EXTERIOR GRADING TO BE MODIFIED TO ACCOMMODATE LEVEL DIFFERENCE BETWEEN INTERIOR FINISH FLOOR AND EXTERIOR GRADE. NEW GRADING TO PROVIDE ACCESSIBLE TRANSITION. REFER TO CIVIL DRAWINGS.
G2	INSTALL NEW BOLLARDS AROUND NEW EXTERIOR COLUMNS, GROUT SOLID
G3	SIGN DISPLAYING "OVERHEAD DOOR REMAINS OPEN AT ALL TIMES FOR EGRESS
G4	DOWNSPOUT, TYP.
G5	12'X16' INDUSTRIAL MAINTENANCE FENCED AREA, REUSE SALVAGED INDUSTRIAL MAINTENANCE FENCE AND GATE, PROVIDE NEW FENCE AS REQUIRED, NEW FENCE TO MATCH EXISTING.
G6	PARTITION TO RECEIVE WC-1, HEIGHT VARIES, REFER TO INTERIOR ELEVATIONS.
G7	LOADING ZONE - STRIPED, WHITE COLOR.
G8	2" EXPANSION JOINT.
G9	CHAIN LINK FENCE & GATE, TO MATCH EXISTING
G11	OVERHANG ABOVE
G12	RELOCATION OF SALVAGED RACKS AND SHELVES, COORDINATE WITH THE OWNER REGARDING NEW LOCATIONS FOR SPECIFIC RACKS AND SHELVES.
G13	STEEL BOLLARD, GROUT SOLID, TYP.
G14	FIRST-AID KIT, TYP.
G15	14' X 16' INDUSTRIAL MAINTENANCE AREA, NOT TO BE FENCED.
G16	PATCH THE CONCRETE SLAB TO MATCH EXISTING, REFER TO STRUCTURAL & PLUMBING DRAWINGS

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STATE OF SOUTH CAROLINA
GOODWYN, MILLS CAWOOD, LLC
GREENVILLE, SC
No. 101713
REGISTERED ARCHITECT

ISSUE	DATE
CD SET	04/17/2026

DRAWN BY: JH & CP
CHECKED BY: JL

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-SB
GMC: ACOL240010

STATE OF SOUTH CAROLINA
12/15/25
JUSTIN L. LUCAS
COLUMBIA, SC
8946
REGISTERED ARCHITECT

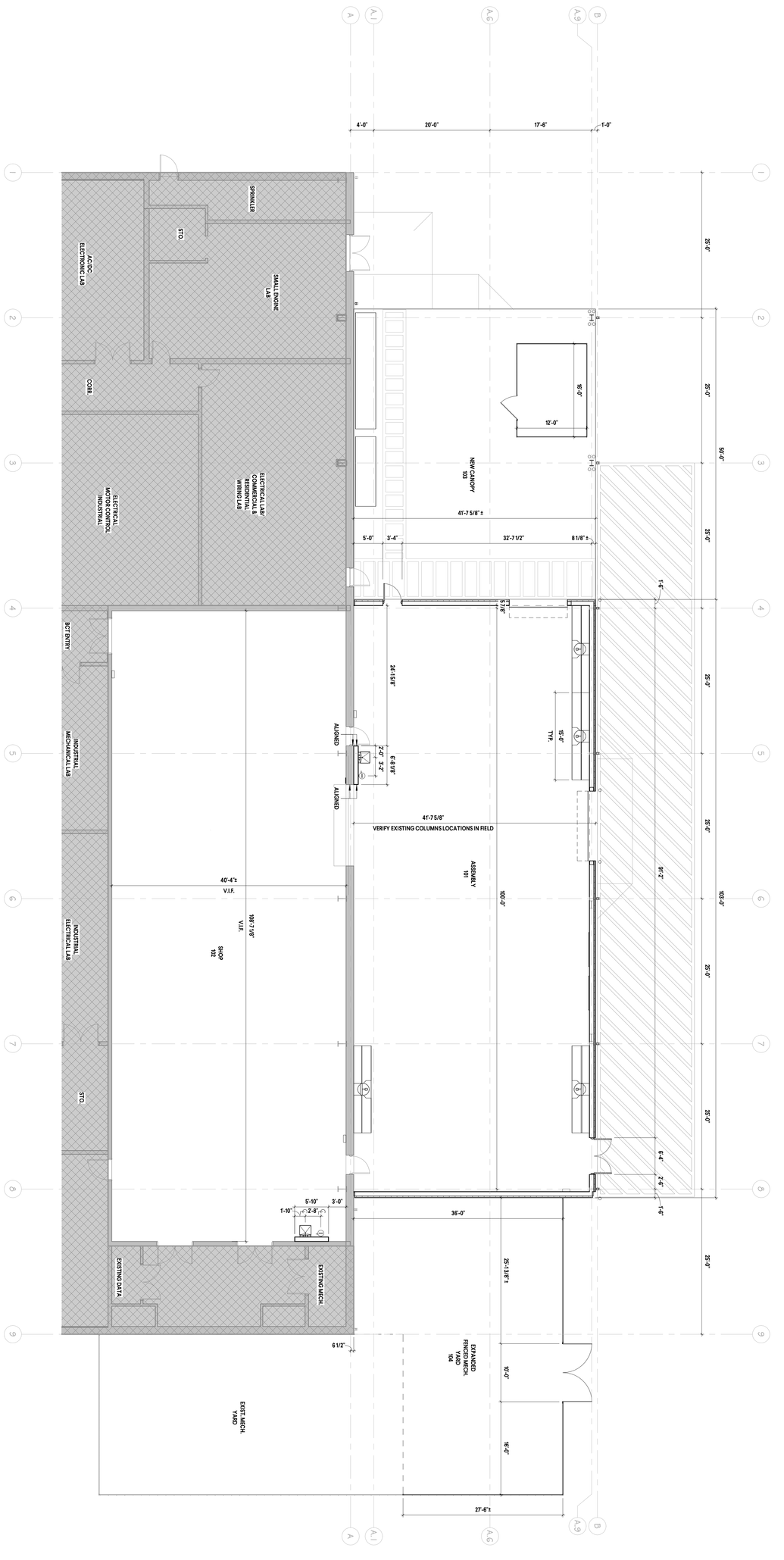
REFERENCE FLOOR PLAN, FINISH LEGEND & ROOM FINISH SCHEDULE

A1.01

4/20/2026 10:17:24 AM TEMPLATE VERSION: 2022.1

PLAN NORTH
TRUE NORTH

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



DIMENSION PLAN

A1.02

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GENERAL NOTES - FLOOR PLAN

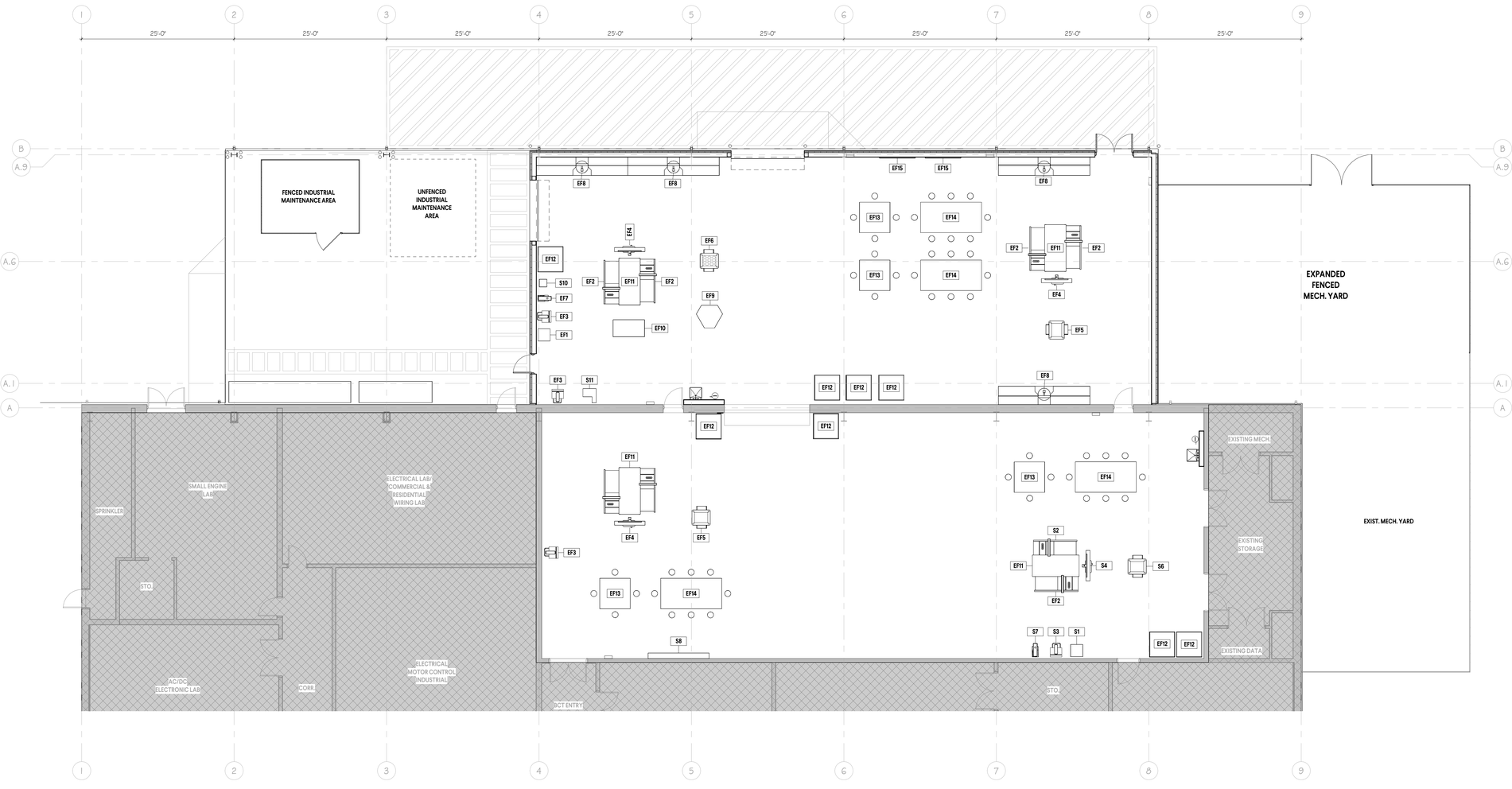
1. THE EXISTING EQUIPMENT SHALL BE SALVAGED AND REINSTALLED BY THE OWNER, UNLESS OTHERWISE INDICATED.
2. THE NEW SHOP EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE OWNER, UNLESS OTHERWISES INDICATED IN THE COMMENTS, PLEASE REFER TO THE COMMENTS COLUMN OF SCHEDULE.

EQUIPMENT & FURNITURE SCHEDULE - EXISTING

TAG	DESCRIPTION	COMMENTS
S1	SALVAGED POCKET HOLE MACHINE	-
S2	SALVAGED TABLE SAW	-
S3	SALVAGED BAND SAW	-
S4	SALVAGED JOINTER	-
S6	SALVAGED PLANER	-
S7	SALVAGED DRILL PRESS	-
S8	SALVAGED PANEL SAW	-
S10	SALVAGED BENCHTOP OSCILLATING SPINDLE SANDER	-
S11	SALVAGED BELT SANDER/DISC GRINDER	-

EQUIPMENT & FURNITURE SCHEDULE - NEW

TAG	DESCRIPTION	COMMENTS
EF1	POCKET HOLE MACHINE	-
EF2	TABLE SAW	-
EF3	BAND SAW	-
EF4	JOINTER	-
EF5	PLANER	-
EF6	22" PLANER WITH HELICAL CUTTERHEAD	-
EF7	DRILL PRESS	-
EF8	CHOP SAW / MITER SAW BENCH	THE SAW BENCH TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR, THE EQUIPMENT TO BE PROVIDED AND INSTALLED BY THE OWNER. THE EQUIPMENT TO BE ALIGNED WITH THE BENCH SURFACE AND BENCH FENCE, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO PREPARATION OF SUBMITTALS AND FABRICATION OF SAW BENCH
EF9	THREE-SPINDLE SHAPER	-
EF10	37" DRUM SANDER	-
EF11	TABLE SAW EXTENSION TABLE	-
EF12	WOOD WASTE CONTAINER	PROVIDED BY THE CONTRACTOR
EF13	60" X 60" WORKBENCH W/ STOOLS	-
EF14	60" X 120" WORKBENCH W/ STOOLS	-
EF15	MARKERBOARD	PROVIDED BY THE CONTRACTOR



PLAN NORTH TRUE NORTH

1 EQUIPMENT PLAN
SCAL 1/8" = 1'-0"
E:

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EQUIPMENT PLAN

A1.11

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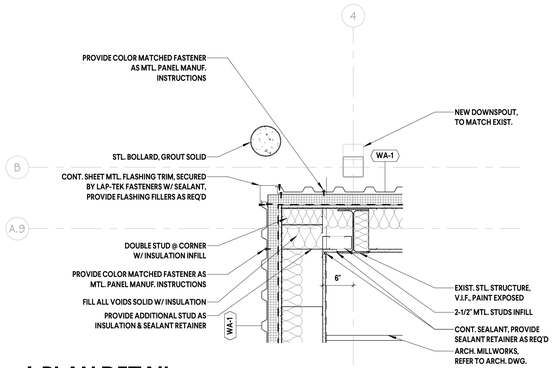

1 PLAN DETAIL
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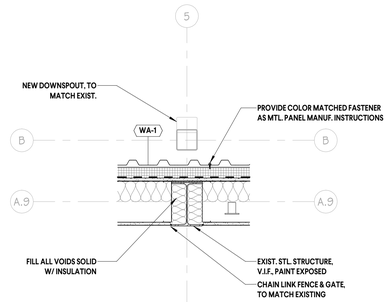

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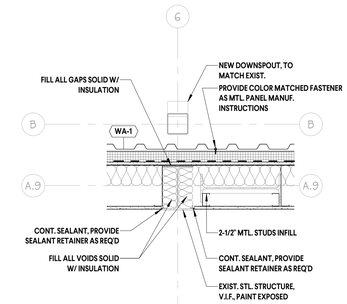

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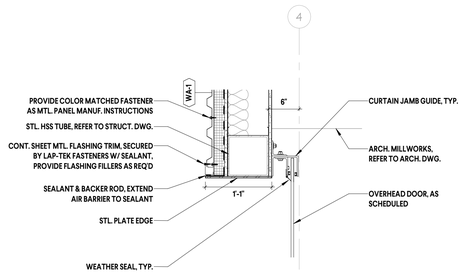

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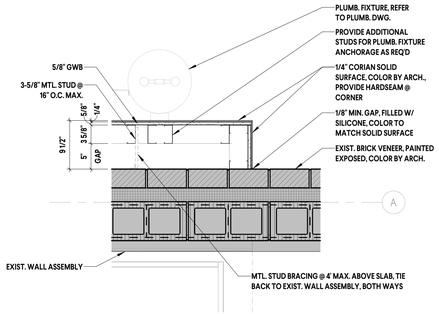

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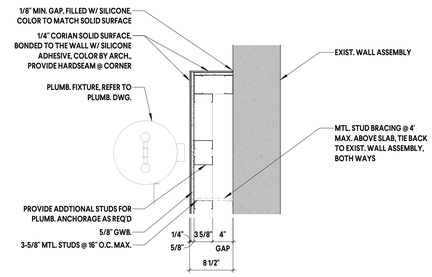

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SCAL 1" = 1'-0"
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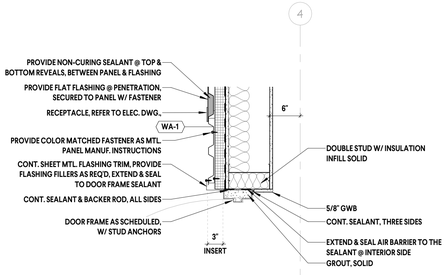

7 PLAN DETAIL
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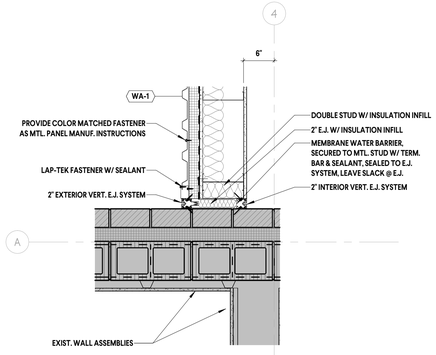

8 PLAN DETAIL
SCAL 1" = 1'-0"
E:

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GMC: ACOL240010

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PLAN DETAILS

A1.21

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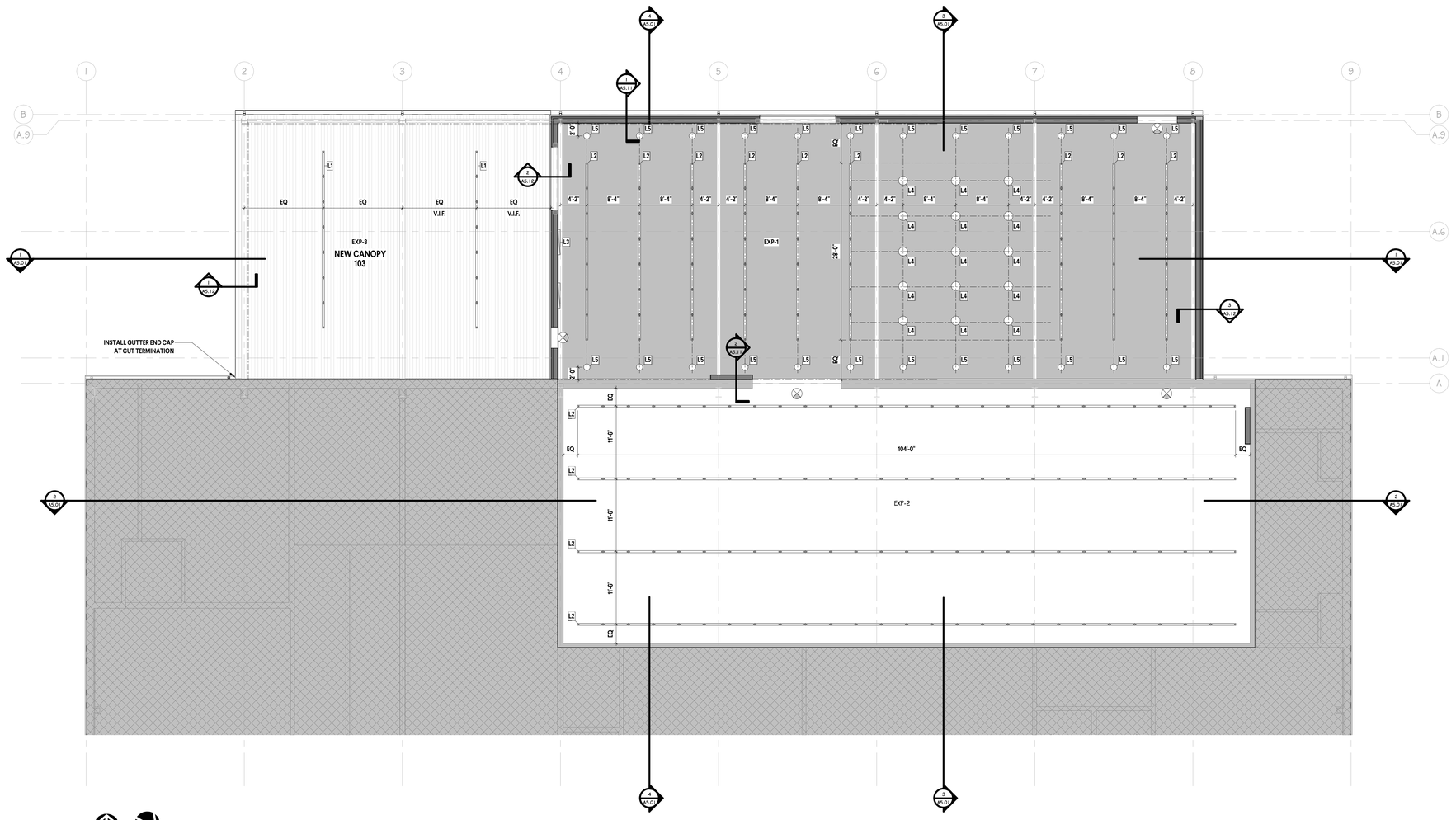

PLAN NORTH TRUE NORTH

1 REFLECTED CEILING PLAN - LEVEL 1

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

GENERAL NOTES - REFLECTED CEILING PLAN

1. SEE ELECTRICAL FOR ALL LIGHT FIXTURE TYPES AND SIZES.
2. SEE MECHANICAL FOR ALL DIFFUSER TYPES AND SIZES.
3. SEE INTERIOR ELEVATIONS FOR WALL MOUNTED LIGHT FIXTURE HEIGHT AND LOCATIONS.
4. COORDINATE LOCATIONS OF ALL LIGHTS, DIFFUSERS, AND DEVICES BETWEEN THIS RCP, MECHANICAL, FIRE PROTECTION, AND ELECTRICAL. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND BEFORE PROCEEDING.
5. WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER FIXTURE OVER DOOR BUT MAINTAIN MINIMUM OVERHEAD CLEARANCE.

REFLECTED CEILING PLAN LEGEND

CEILING FINISHES:

- NOT IN SCOPE
- EXISTING SOFFIT
- NEW SOFFIT, PROFILE TO MATCH EXISTING, WHITE COLOR
- EXPOSED STRUCTURE

LIGHTING:

- LINEAR SUSPENDED FIXTURE
- LINEAR WALL MT. FIXTURE
- CIRCULAR PENDANT FIXTURE
- EXIT LIGHT

LIGHTING FINISH LEGEND

TYPE	FINISH	DETAIL DESCRIPTION
L1	WHITE	MANUFACTURER: REFER TO ELEC. DRAWINGS COLOR: WHITE LOCATION: CEILING-MOUNTED, EXTERIOR, WHERE INDICATED
L2	WHITE	MANUFACTURER: REFER TO ELEC. DRAWINGS COLOR: WHITE LOCATION: SUSPENDED, INTERIOR, WHERE INDICATED
L3	WHITE	MANUFACTURER: REFER TO ELEC. DRAWINGS COLOR: WHITE LOCATION: WALL-MOUNTED, INTERIOR, WHERE INDICATED
L4	WHITE	MANUFACTURER: REFER TO ELEC. DRAWINGS COLOR: WHITE LOCATION: SUSPENDED, INTERIOR, WHERE INDICATED
L5	WHITE	MANUFACTURER: REFER TO ELEC. DRAWINGS COLOR: WHITE, DWHG TEXTURED, P&G LOCATION: SUSPENDED, INSTERIOR, WHERE INDICATED

CEILING FINISH LEGEND

NUMBER	TYPE	DETAIL DESCRIPTION
EXP-1	EXISTING SOFFIT & EXPOSED STRUCTURE	SOFFIT PANELS AND EXPOSED STRUCTURE TO RECEIVE PAINT, REFER TO ROOM FINISH SCHEDULE FOR PAINT COLOR.
EXP-2	EXPOSED STRUCTURE	EXPOSED STRUCTURE TO RECEIVE PAINT, REFER TO ROOM FINISH SCHEDULE FOR PAINT COLOR. EXISTING INSULATION FACING MEMBRANE SHALL NOT BE PAINTED.
EXP-3	NEW SOFFIT & EXPOSED STRUCTURE	NEW SOFFIT PANELS SHALL NOT RECEIVE PAINT; EXPOSED STRUCTURE TO RECEIVE PAINT, REFER TO ROOM FINISH SCHEDULE FOR PAINT COLOR.

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AMSC EXPANSION - AIRPORT
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STATE OF SOUTH CAROLINA
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REFLECTED CEILING PLAN

A2.01

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ROOF PLAN

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KEY NOTES - ROOF PLAN

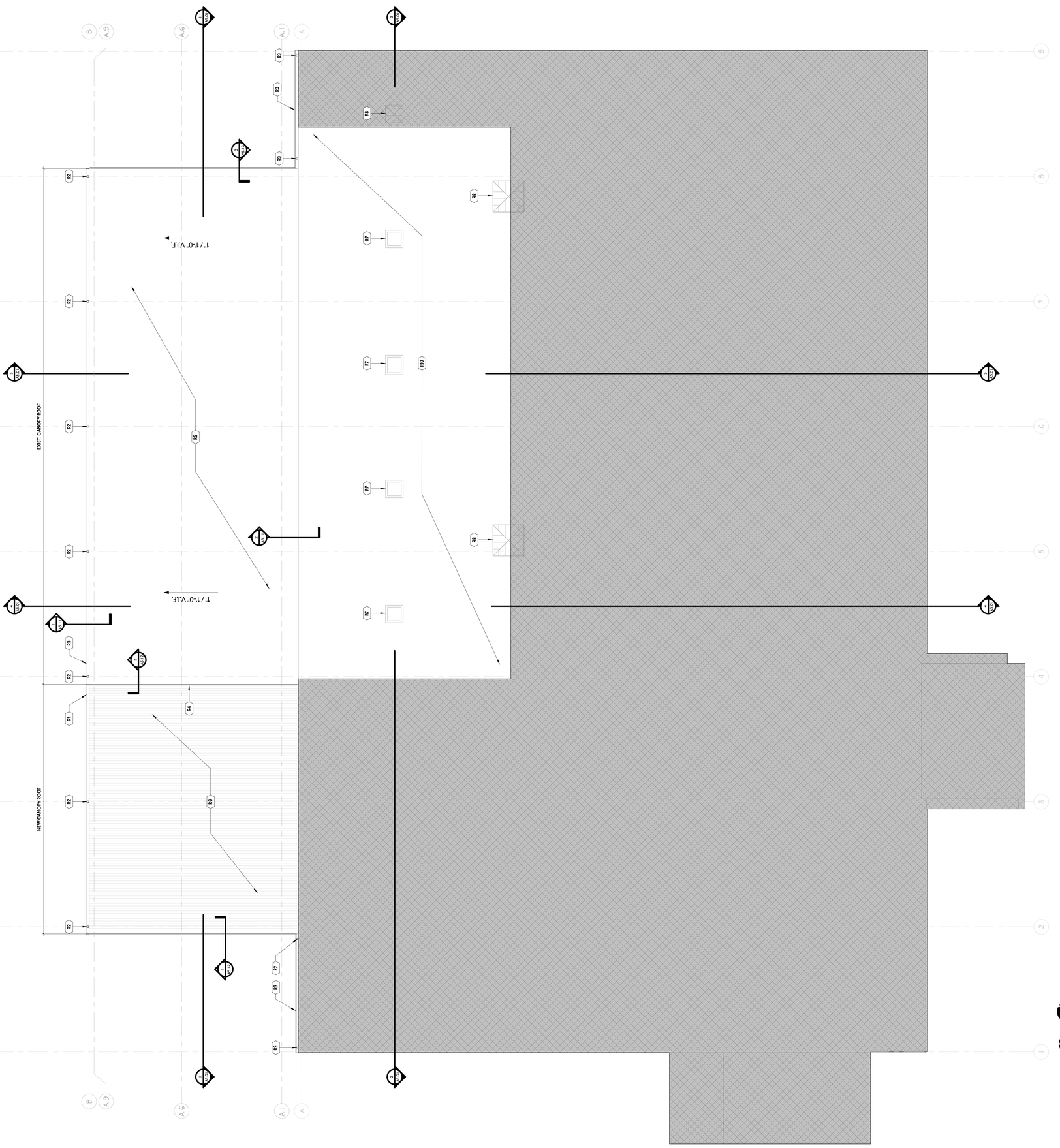
KEY	KEYNOTE
R1	NEW MTL. GUTTER, TYP.
R2	DOWNSPOUT, TYP.
R3	EXISTING GUTTER TO REMAIN, REPAIR OR REPLACE AS REQ'D. TYP.
R4	ROOF EXPANSION JOINT AND COVER SYSTEM
R5	EXISTING CANOPY ROOF SYSTEM TO REMAIN
R6	NEW STANDING SEAM METAL ROOF SYSTEM TO MATCH EXISTING ROOF
R7	EXISTING SKYLIGHT TO REMAIN, TYP.
R8	EXISTING ROOF CURB TO REMAIN, TYP.
R9	EXISTING DOWNSPOUT, TO REMAIN, EXTENDED TO DISCHARGE RUNOFF BEYOND THE NEW MECHANICAL YARD AND EQUIPMENT
R10	EXISTING BUILDING ROOF SYSTEM TO REMAIN

ROOF PLAN LEGEND

NOT IN SCOPE

EXISTING ROOF

NEW STANDING SEAM ROOF SYSTEM

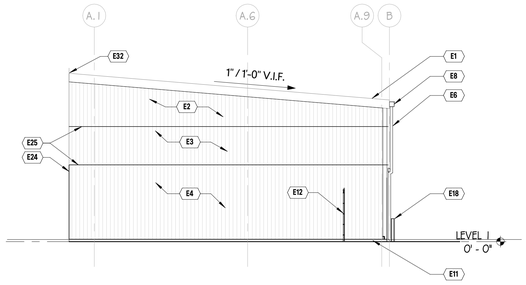


PLAN NORTH

TRUE NORTH

1 ROOF PLAN

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



1 BUILDING ELEVATION - EAST

SCAL 1/8" = 1'-0"
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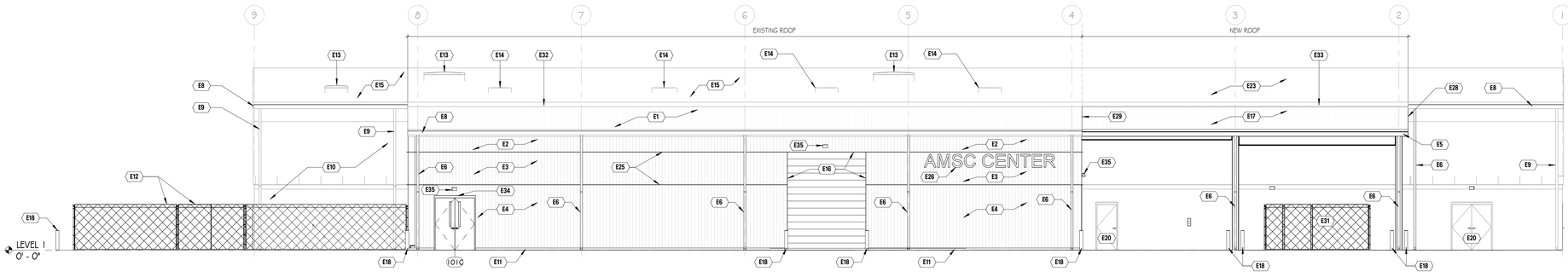

2 BUILDING ELEVATION - NORTH

SCAL 1/8" = 1'-0"
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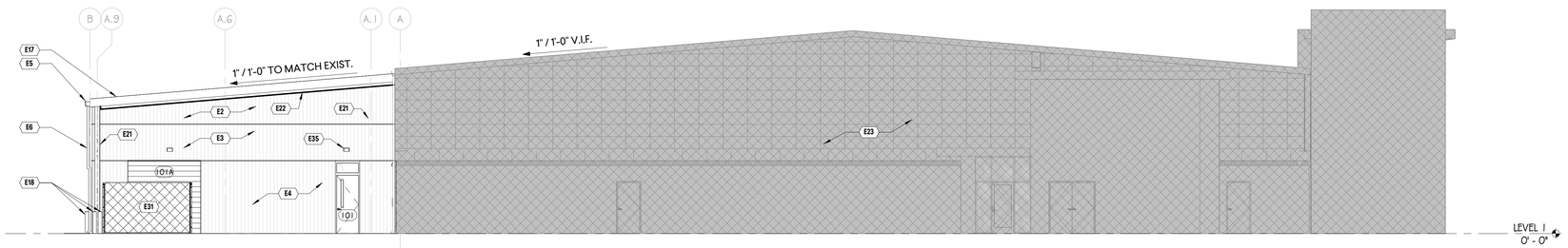

3 BUILDING ELEVATION - WEST

SCAL 1/8" = 1'-0"
E:

KEYNOTES - EXTERIOR ELEVATIONS	
KEY	KEYNOTE
E1	EXISTING ROOF SYSTEM TO REMAIN
E2	EXPOSED FASTENER METAL PANEL, PROFILE #1, COLOR #1
E3	EXPOSED FASTENER METAL PANEL, PROFILE #1, COLOR #2
E4	EXPOSED FASTENER METAL PANEL, PROFILE #1, COLOR #3
E5	MTL. GUTTER, PROFILE TO MATCH EXISTING, TYP.
E6	DOWNSPOUT TO MATCH EXISTING, TYP.
E7	EXISTING BOLLARDS SURROUNDING THE EXISTING COLUMN TO REMAIN, TYP.
E8	EXISTING GUTTER TO REMAIN
E9	EXISTING DOWNSPOUT TO REMAIN
E10	EXISTING EXTERIOR WALL TO REMAIN
E11	HEAVY DUTY METAL FLASHING OVER INSULATION
E12	CHAIN LINK FENCE & GATE, TO MATCH EXISTING
E13	EXISTING ROOF CURB TO REMAIN, TYP.
E14	EXISTING SKYLIGHT TO REMAIN, TYP.
E15	EXISTING STRUCTURE BEYOND TO REMAIN
E16	STEEL PLATE FRAME, THREE SIDES, REFER TO CONSTRUCTION DETAILS
E17	NEW STANDING SEAM METAL ROOF SYSTEM, SLOPE TO MATCH EXISTING ROOF
E18	STEEL BOLLARD, GROUT SOLID, TYP., REFER TO FLOOR PLAN FOR LOCATIONS
E19	EXISTING STRUCTURE TO REMAIN
E20	EXISTING DOOR
E21	STEEL COLUMN, SEE STRUCTURAL
E22	STEEL BEAM / GIRDER, SEE STRUCTURAL
E23	NOT IN SCOPE, TYP.
E24	EXPANSION JOINT SYSTEM WHERE NEW WALL INTERSECTS THE EXISTING WALL
E25	CONTINUOUS HORIZONTAL MTL. EXTRUSION
E26	2'H METAL LETTERS, SECURED TO WALL STRUCTURE W/ STANDOFFS STUDS, CENTERED BETWEEN GRID 4 & 5
E27	EXISTING OVERHEAD DOOR TO REMAIN
E28	RAKE TRIM, PROFILE AND HEIGHT TO MATCH EXISTING
E29	1" ROOF PANEL DEFLECTION JOINT
E30	RELOCATION OF FLAMMABLE MATERIALS STORAGE
E31	REFER TO FLOOR PLAN FOR RELOCATION OF SALVAGED FENCE, GATE AND SHELVES UNDER THE NEW CANOPY
E32	EXISTING TRANSVERSE EXPANSION TRIM
E33	NEW TRANSVERSE EXPANSION TRIM
E34	RAIN DRIP CAP AT DOOR HEAD
E35	LIGHTING FIXTURE, REFER TO ELEC. DWG.

GENERAL NOTES - EXTERIOR ELEVATIONS

1. EXPOSED FASTENER METAL PANEL:
   - PROFILE #1 - MORIN KINGSPAN, EXPOSED BR-35, PROFILE A.
   - COLOR #1 - MORIN KINGSPAN, MORIN STANDARD PAINT COLOR - ASCOT WHITE.
   - COLOR #2 - MORIN KINGSPAN, MORIN STANDARD PAINT COLOR - CHROMIUM GRAY.
   - COLOR #3 - MORIN KINGSPAN, MORIN STANDARD PAINT COLOR - ZINC GRAY.

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EXTERIOR ELEVATIONS

A4.01

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1 BUILDING SECTION - 1
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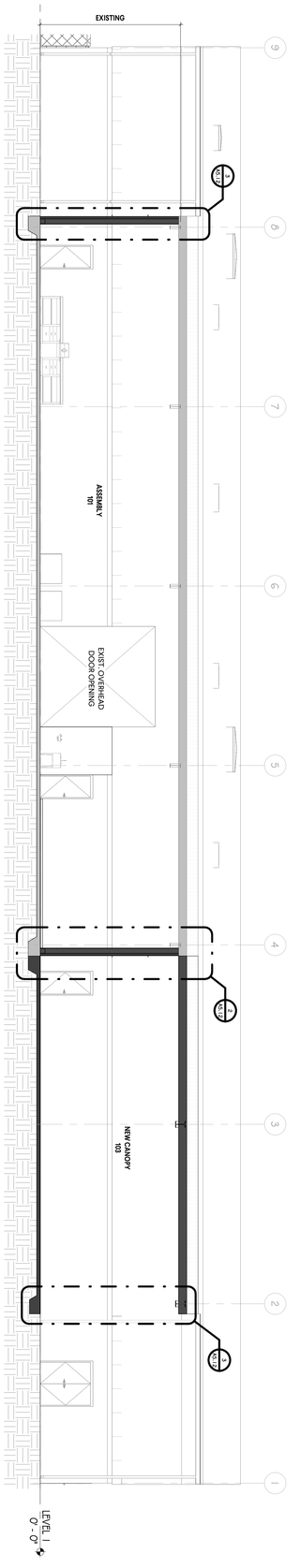

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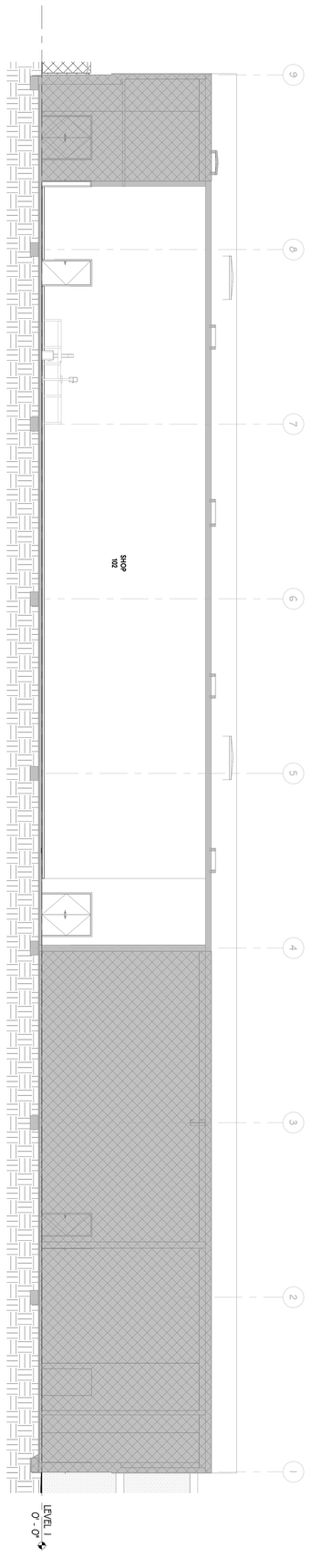

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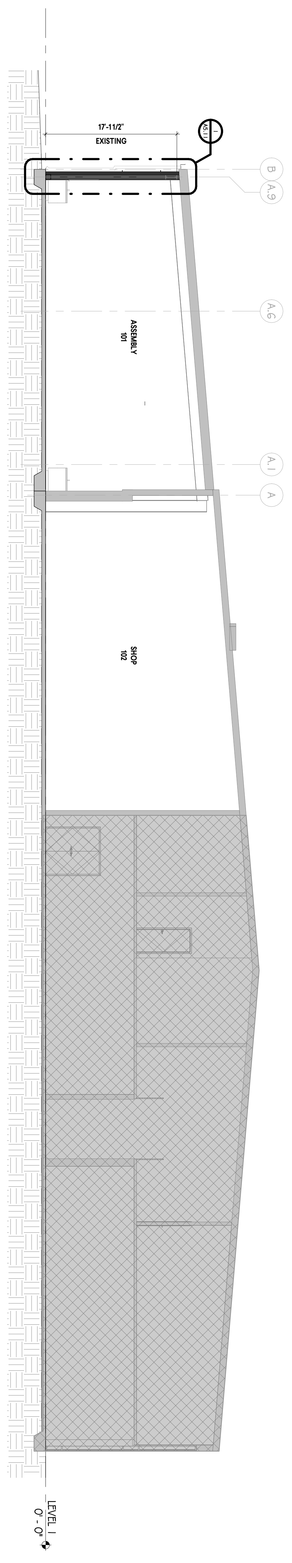

4 BUILDING SECTION - 4
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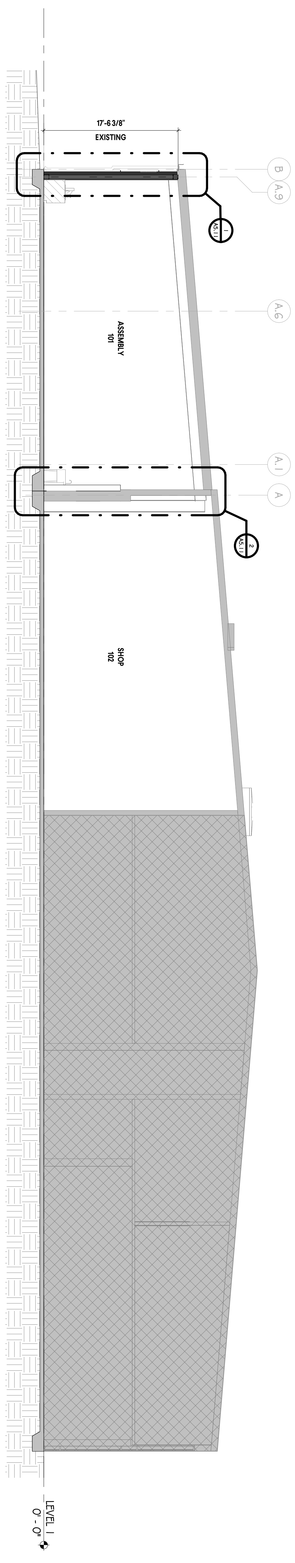

BUILDING SECTIONS

A5.01

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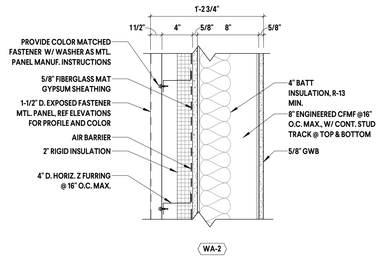
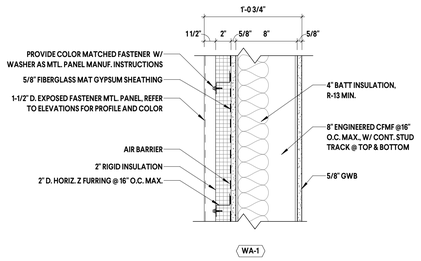


EXPOSED METAL PANEL ON 8" CFMC - UPPER



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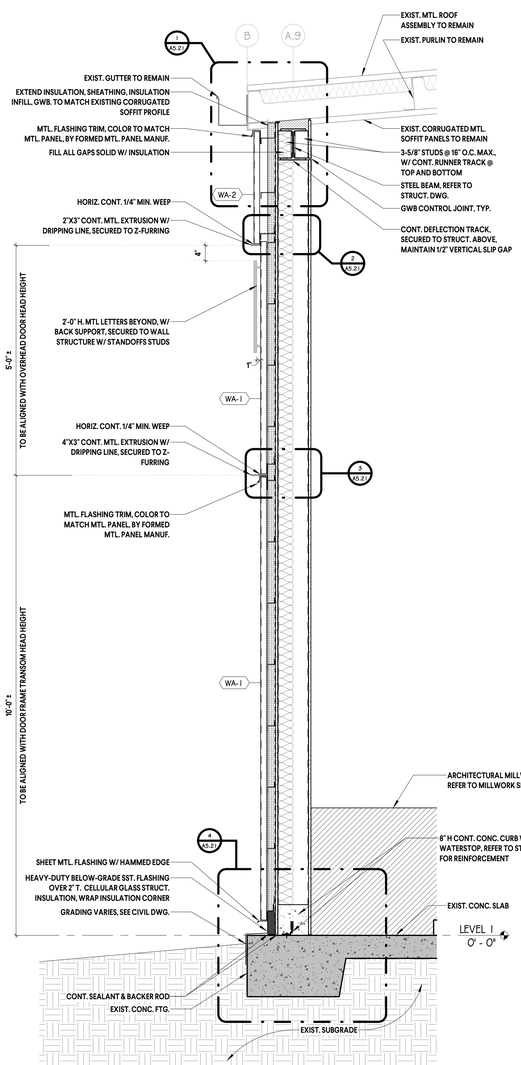
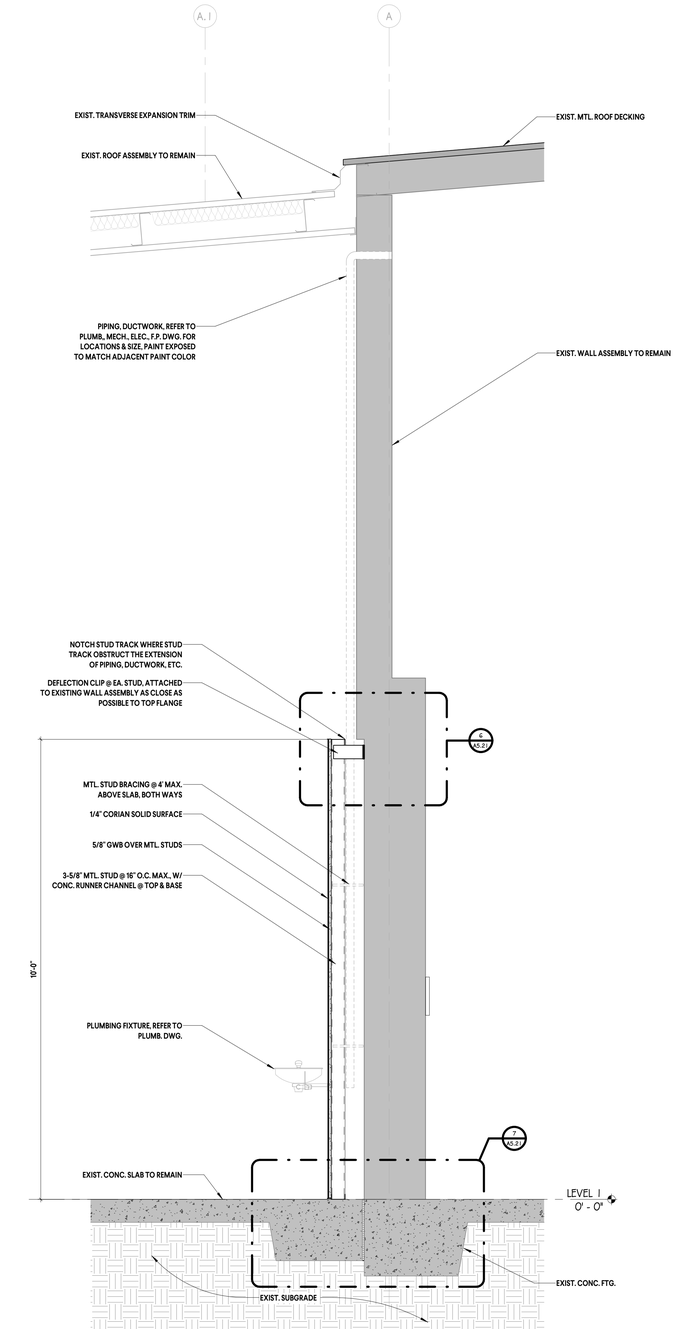


1 WALL SECTION

SCAL E: 3/4" = 1'-0"



2 WALL SECTION - 7

SCAL E: 3/4" = 1'-0"

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STATE OF SOUTH CAROLINA
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GREENVILLE, SC
No. 101713
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AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-SB
GMC: ACOL240010

STATE OF SOUTH CAROLINA
12/15/25
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WALL SECTIONS & TYPICAL ASSEMBLIES

A5.11

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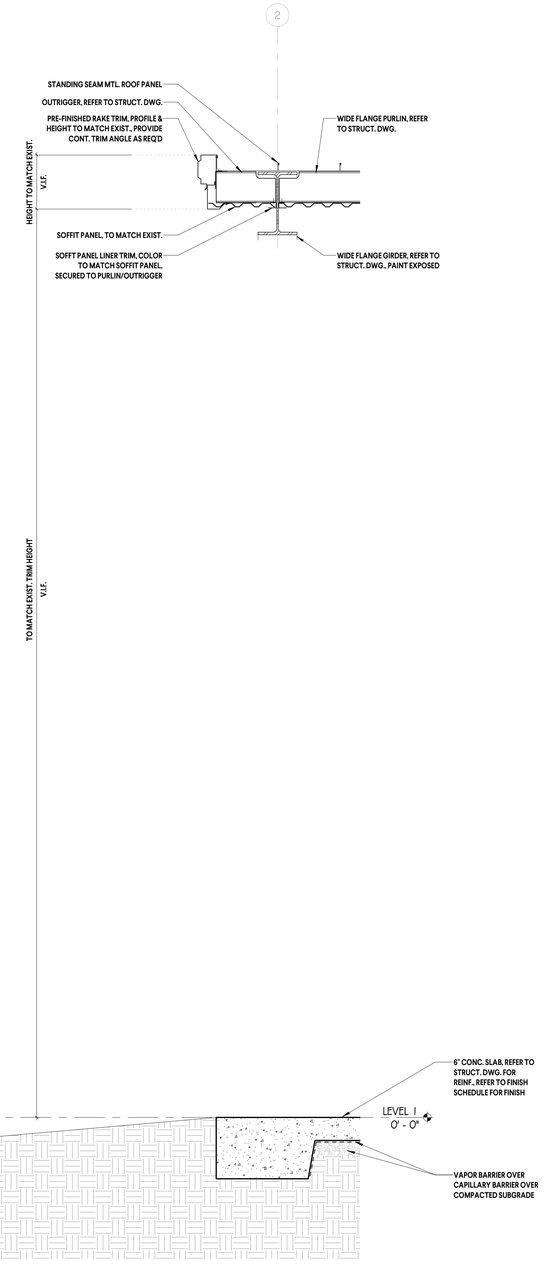

1 WALL SECTION

SCAL 3/4" = 1'-0"
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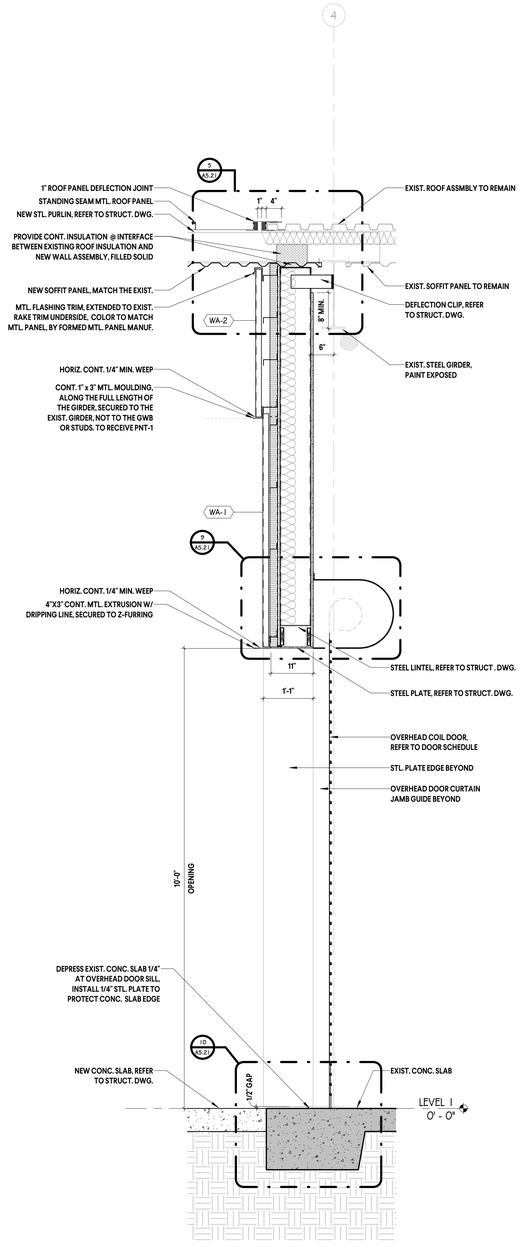

2 WALL SECTIO

SCAL 3/4" = 1'-0"
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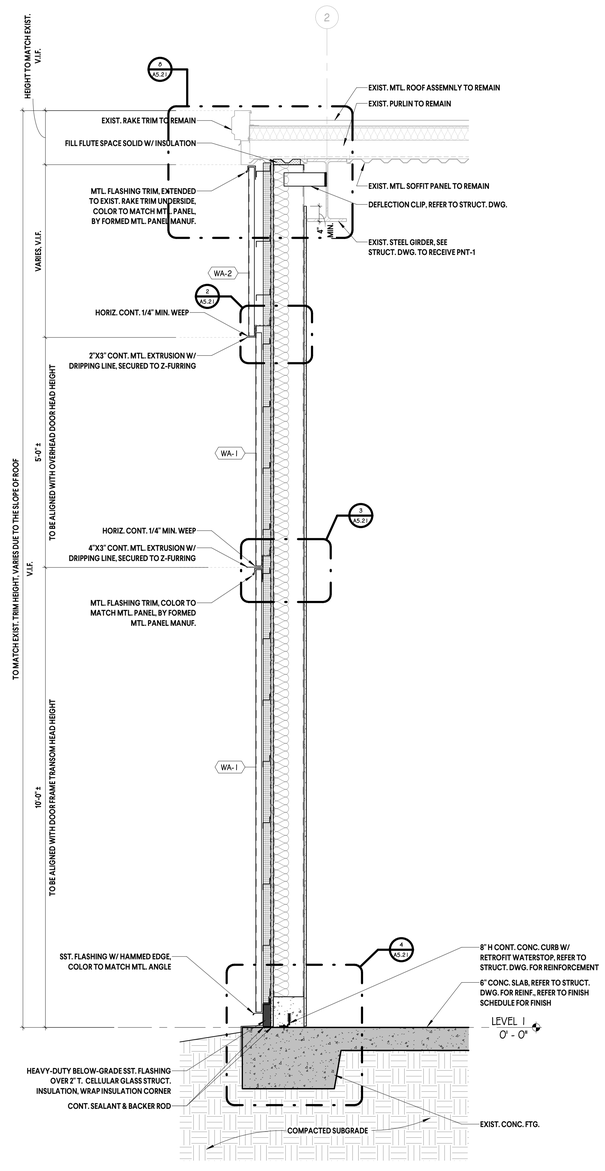

3 WALL SECTION

SCAL 3/4" = 1'-0"
E:

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WALL SECTIONS

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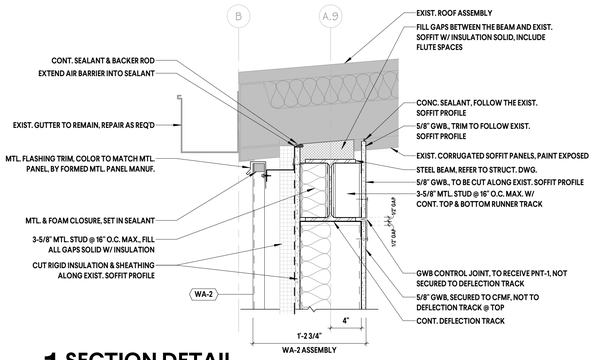

1 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
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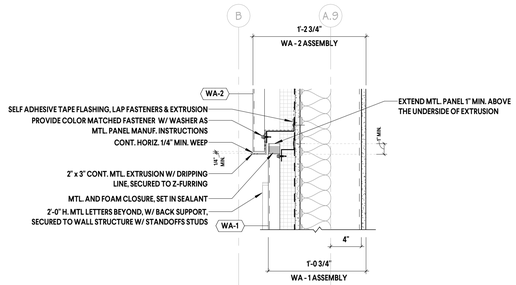

2 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
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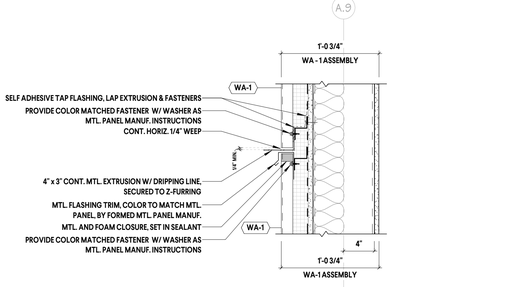

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SCAL 1 1/2" = 1'-0"
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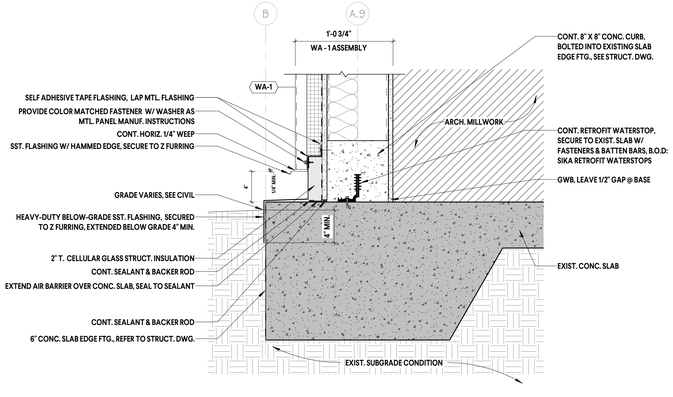

4 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
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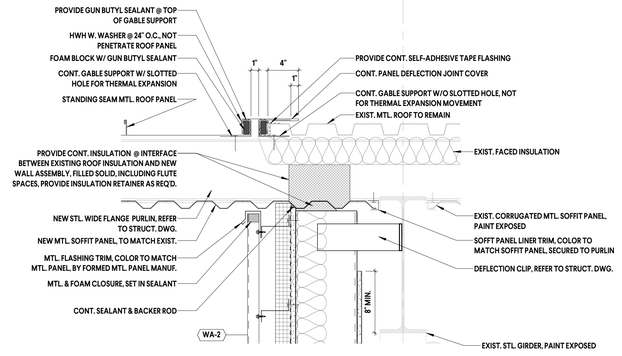

5 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
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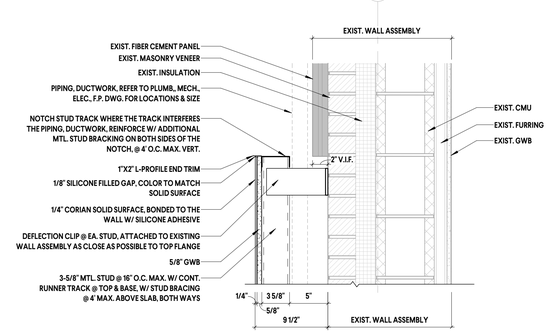
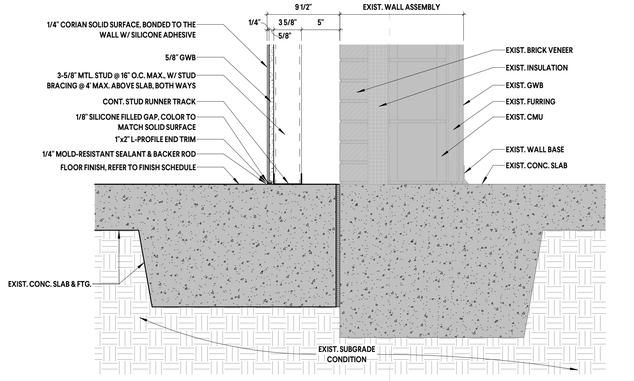


6 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
E:



7 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
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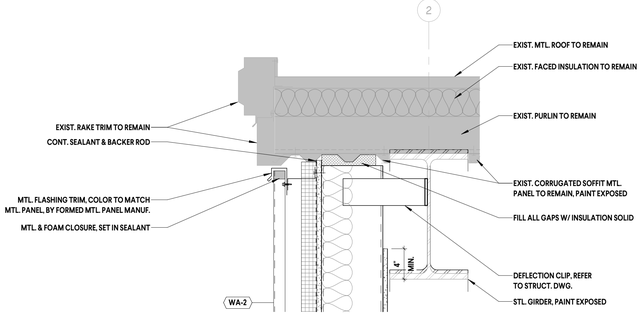

8 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
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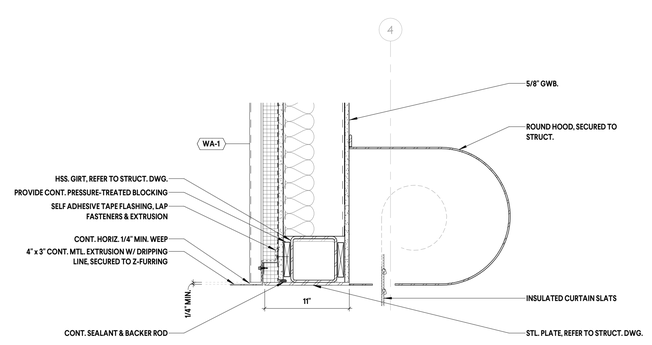

9 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
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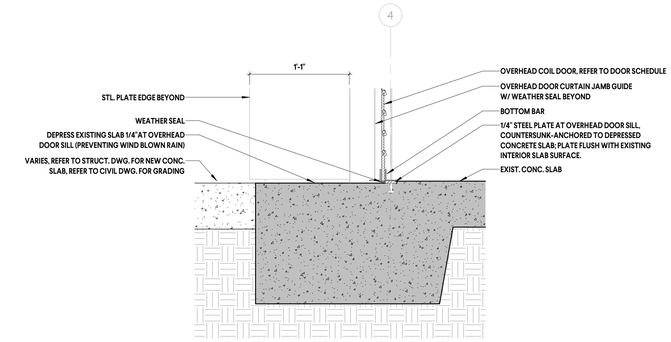

10 SECTION DETAIL
SCAL 1 1/2" = 1'-0"
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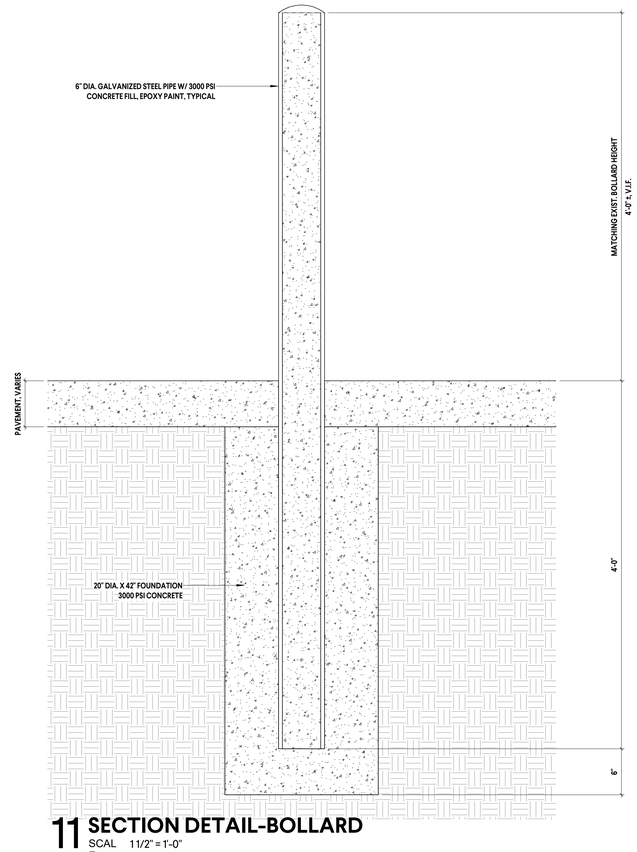

11 SECTION DETAIL-BOLLARD
SCAL 1 1/2" = 1'-0"
E:

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SECTION DETAILS

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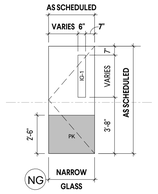
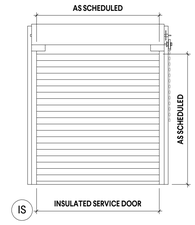
DOOR SCHEDULE

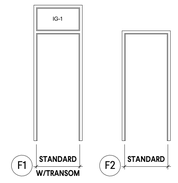
LOCATION		SIZE		DOOR				FRAME			DETAILS				
DOOR NUMBER	ROOM NAME	WIDTH	HT	DOOR TYPE	MAT'L	DOOR FINISH	GLASS OR LOUVER TYPE	FRAME TYPE	MAT'L	GLASS TYPE	HEAD	JAMB	SILL	FIRE RATING	COMMENTS
101	ASSEMBLY	3' - 0"	8' - 0"	NG	HM	PNT	IG-1	F1	HM	IG-1	VIEW 1/A6.01	VIEW 7/A1.21	VIEW 2/A6.01	0	RAIN DRIP CAP AT DOOR HEAD
101A	ASSEMBLY	10' - 0"	10' - 0"	IS	GSS	PREFIN	-	-	-	-	VIEW 9/A5.21	VIEW 4/A1.21	VIEW 10/A5.21	0	CURTAIN JAMB GUIDES & WEATHER SEALS
101B	ASSEMBLY	12' - 0"	15' - 0"	IS	GSS	PREFIN	-	-	-	-	VIEW 9/A5.21	VIEW 4/A1.21	VIEW 10/A5.21	0	CURTAIN JAMB GUIDES & WEATHER SEALS
101C	ASSEMBLY	6' - 0"	8' - 0"	NG	HM	PNT	IG-1	F2	HM	-	VIEW 1/A6.01	VIEW 7/A1.21	VIEW 2/A6.01	0	DOUBLE SWING DOOR



DOOR ELEVATIONS

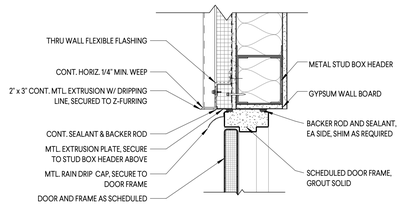


SPECIALTY DOOR ELEVATION



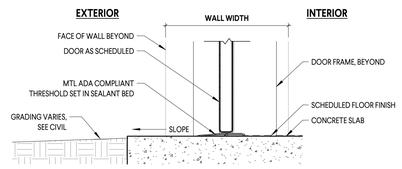
NOTE: ALL FRAMES TO BE FACE-WELDED

FRAMES TYPES



1 TYPICAL DOOR HEAD

SCAL E: 1 1/2" = 1'-0"



2 TYPICAL DOOR SILL

SCAL E: 1 1/2" = 1'-0"

DOOR GENERAL NOTES

1) GENERAL:
A. DOOR AND/OR FRAME CONSTRUCTION SHALL BE AS SPECIFIED UNLESS NOTED OTHERWISE.
B. ALL TYPES OF DOORS ARE REPRESENTED IN THIS SCHEDULE FOR CONVENIENCE. WHERE MORE DESCRIPTIVE INFORMATION MAY BE LOCATED ELSEWHERE, NOTATION IS MADE IN THE NUMBERED NOTES COLUMN. (E.G. ALUMINUM FRAMED ENTRANCE DOORS. SEE SPECIFICATIONS)

2) MATERIAL AND FINISH:
A. MATERIALS AND FINISHES INDICATED ON THE SCHEDULE ARE AS FOLLOWS:

HM	HOLLOW METAL
GSS	GALVANIZED STEEL SHEET
GL	GLAZING/GLASS
PREFIN	PREFINISHED (OR FACTORY FINISHED)
PNT	PAINTED
STN	STAINED

3) GLASS:
A. GLASS TYPES INDICATED ON THE SCHEDULE ARE AS FOLLOWS (SEE SPECIFICATION SECTIONS 08 80 00 "GLAZING"):

MONOLITHIC:

G1	1/4"	CLEAR, TEMPERED
G2	1/4"	GRAY TINTED, TEMPERED

INSULATING:

IG-1	1"	G1 (INNER PANE) + 1/2" AIR + G2 (OUTER PANE)

4) DOOR HARDWARE:
A. "HARDWARE SET NUMBER" REFERS TO HARDWARE SETS SPECIFIED IN SPECIFICATION SECTION 08 7100 "DOOR HARDWARE".

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DOOR SCHEDULE, LEGEND, NOTES & DETAILS

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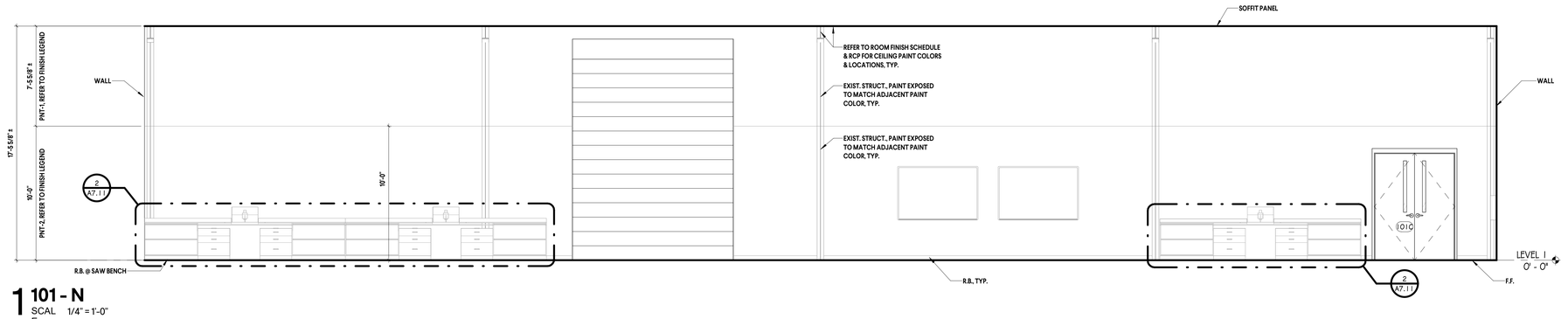
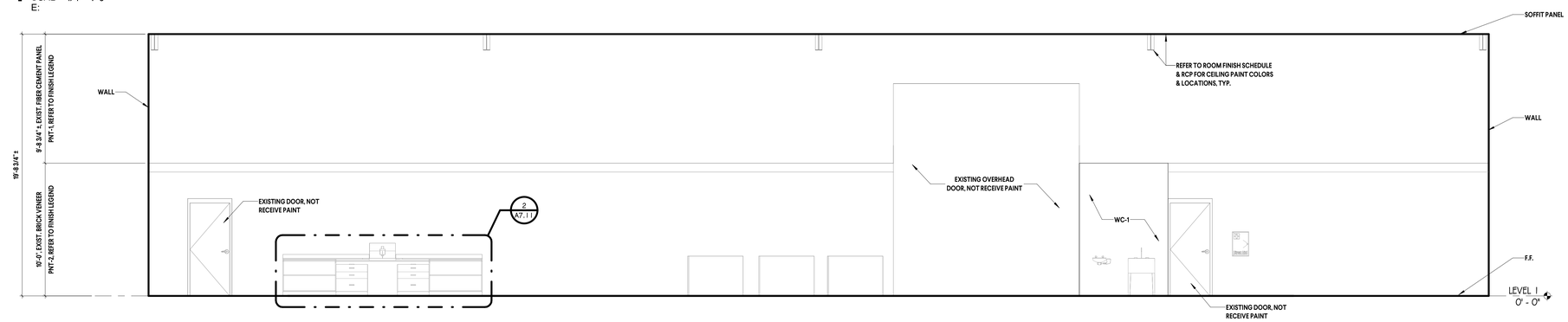


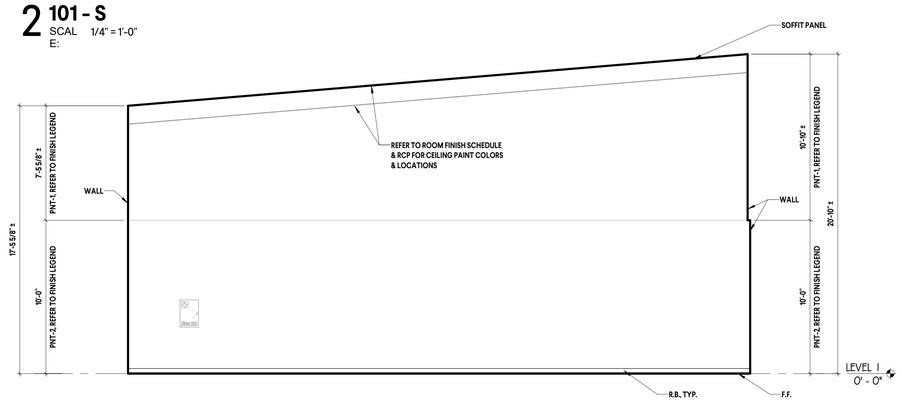
1 101 - N

SCALE: 1/4" = 1'-0"



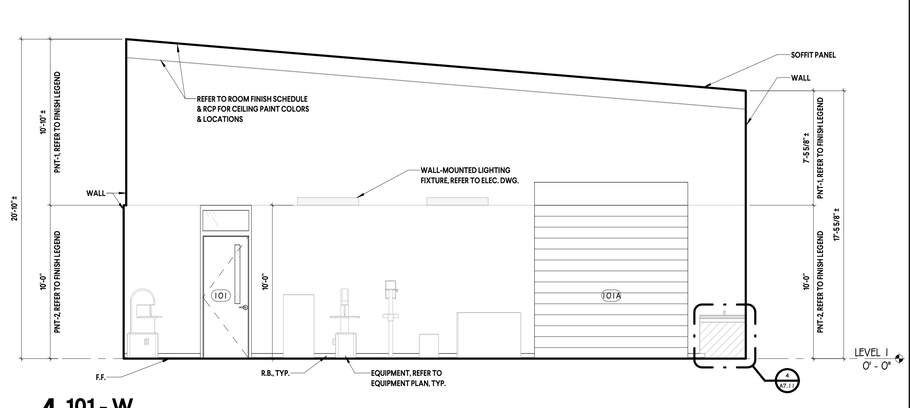
2 101 - S

SCALE: 1/4" = 1'-0"



3 101 - E

SCALE: 1/4" = 1'-0"



4 101 - W

SCALE: 1/4" = 1'-0"

FINISH LEGEND

KEY	MATERIAL	BASIS-OF-DESIGN	STYLE / COLOR	LOCATION	NOTES
FLOOR					
RFS	RESINOUS FLOORING SYSTEM	-	FINISH TO BE SELECTED BY OWNER	REFER TO ROOM FINISH SCHEDULE	PREPARE THE EXISTING FLOORING SURFACE TO RECEIVE NEW RESINOUS FLOORING SYSTEM
C-1	NEW CONCRETE SLAB	-	REFER TO CIVIL DRAWINGS	CANOPY, EXPANDED MECH. YARD	-
WALL					
PNT-1	PAINT	SHERWIN WILLIAMS	SW 7005 - PURE WHITE	REFER TO ROOM FINISH SCHEDULE	-
PNT-2	PAINT	SHERWIN WILLIAMS	SW 7059 - UNUSUAL GRAY	REFER TO ROOM FINISH SCHEDULE	-
RB-1	RUBBER BASE	TARKETT - JOHNSONITE	40 BLACK B	REFER TO ROOM FINISH SCHEDULE	RUBBER BASE IS NOT REQUIRED AT BRICK VENEER OR SOLID SURFACE WALL COVERING
WC-1	WALL COVERING	CORIAN PANEL	ARTISTA MIST	REFER TO ROOM FINISH SCHEDULE	-
EXTERIOR					
PNT-3	PAINT	SHERWIN WILLIAMS	SW 9562 - FORTITUDE	REFER TO ROOM FINISH SCHEDULE	-

GENERAL NOTES - INTERIOR ELEVATIONS

1. COORDINATE LOCATION OF THE SMART BOARDS AND WHITE BOARDS WITH THE OWNER BEFORE INSTALLATION.
2. PAINT ALL EXPOSED STRUCTURAL FRAMING TO MATCH ADJACENT WALL PAINT SCHEMES.
3. PAINT ALL EXPOSED PIPING AND DUCTWORK TO MATCH THE ADJACENT PAINT SCHEME.

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INTERIOR ELEVATIONS

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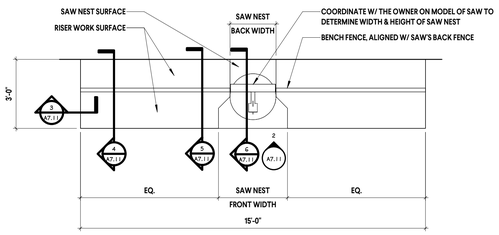
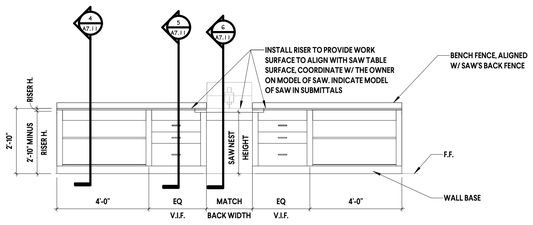


1 ENLARGED PLAN - CHOP SAW BENCH

SCAL 3/8" = 1'-0"
E:

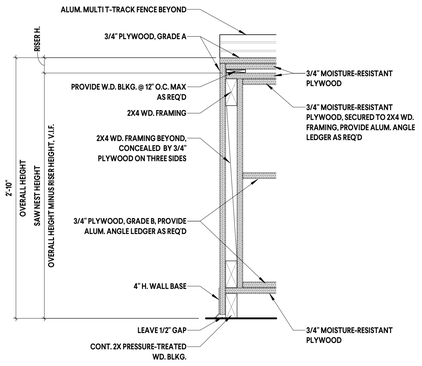


2 TYPICAL CHOP SAW BENCH ELEVATION

SCAL 3/8" = 1'-0"
E:

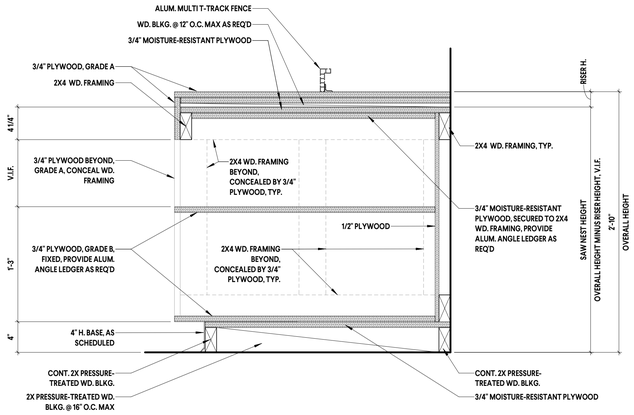
GENERAL NOTES - MILLWORK

1. MILLWORK DIMENSIONS ARE DEPENDENT ON OWNER-PROVIDED EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO VERIFY FINAL EQUIPMENT SIZES AND FIELD CONDITIONS PRIOR TO PREPARATION OF SUBMITTALS AND FABRICATION. FABRICATION SHALL NOT COMMENCE UNTIL ALL REQUIRED DIMENSIONS ARE CONFIRMED. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND VERIFICATION.
2. CHOP SAW BENCH: PLYWOOD CONSTRUCTION ONLY. NO PARTICLE BOARD OR PLAM MATERIALS SHALL BE USED.



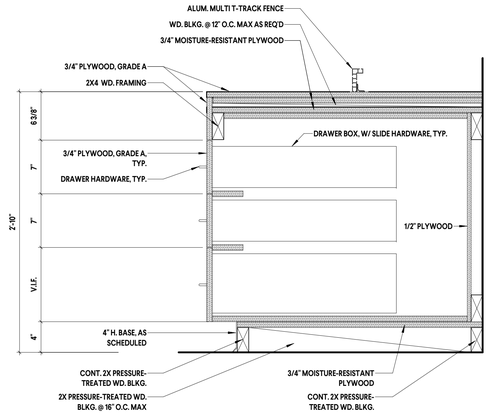
3 MILLWORK SECTION - END

SCAL 1 1/2" = 1'-0"
E:



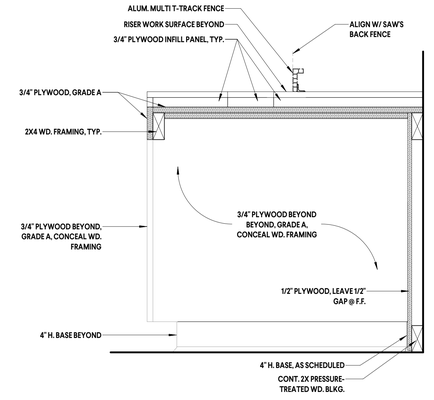
4 MILLWORK SECTION - BASE CAB

SCAL 1 1/2" = 1'-0"
E:



5 MILLWORK SECTION - DRAWER

SCAL 1 1/2" = 1'-0"
E:



6 MILLWORK SECTION - SAW NEST

SCAL 1 1/2" = 1'-0"
E:

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GMC: ACOL240010

ARCHITECTURAL
WOODWORK - PLANS, ELEVATIONS & SECTIONS

A7.11

4/17/2026 12:12:10 PM TEMPLATE VERSION: 2022.1

GENERAL NOTES

1. STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF PROJECT DRAWINGS, PROJECT MANUAL, AND ALL SHOP DRAWING SUBMITTALS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES AND ALL OTHER COORDINATION ISSUES WITH OTHER TRADES.
3. IN CASE OF CONFLICT BETWEEN VARIOUS STRUCTURAL DRAWINGS, STRUCTURAL PLANS, OR STRUCTURAL DETAILS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
4. IN CASE OF CONFLICT BETWEEN DRAWINGS, DRAWING NOTES, AND SPECIFICATIONS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
5. WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
6. ALL NOTES, DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS INDICATED OR REFERENCED. ALL NOTES, DETAILS AND SECTIONS SHALL APPLY TO ANY SIMILAR SITUATION THROUGHOUT THE ENTIRE PROJECT UNLESS A SEPARATE NOTE, DETAIL OR SECTION IS PROVIDED.
7. REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION
9. COORDINATE STRUCTURAL DRAWINGS WITH OTHER CONTRACT DRAWINGS, SPECIFICATIONS, OR SHOP DRAWINGS WHICH MAY AFFECT THE STRUCTURAL WORK.
10. USE OF REPRODUCED CONTRACT DRAWINGS IN PART OR WHOLE FOR THE PURPOSE OF SHOP DRAWING PREPARATION SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAYOUT, COORDINATE, DETAIL, FABRICATE AND INSTALL A COMPLETE STRUCTURE.
11. ALL SUBMITTALS SHALL BE REVIEWED BY THE SUBCONTRACTOR AND CONTRACTOR FOR CONFORMANCE TO THE CONTRACT DOCUMENTS, FOR COMPLETENESS, AND TO RESPOND TO CONTRACTOR COORDINATION RELATED QUESTIONS PRIOR TO SUBMITTING FOR APPROVAL. ALL SHEETS SHALL BE STAMPED AND INITIALED BY THE CONTRACTOR INDICATING SUCH A REVIEW HAS BEEN COMPLETED PRIOR TO ISSUING SUBMITTAL FOR APPROVAL.
12. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.
13. ALL ELEVATIONS INDICATED IN STRUCTURAL DRAWINGS ARE IN REFERENCE TO A GROUND FLOOR FINISHED SLAB ELEVATION OF 0'-0" UNLESS NOTED OTHERWISE. SEE CIVIL FOR GROUND FLOOR FINISHED SLAB ELEVATION.

DIMENSIONAL CONTROL

1. HORIZONTAL LAYOUT OF THE STRUCTURE(S) IS DEPENDENT ON THE HORIZONTAL LAYOUT OF EXISTING STRUCTURES AND/OR PROPERTY LINES AS INDICATED IN THE CONTRACT DOCUMENTS.
2. VERTICAL LAYOUT OF THE STRUCTURE(S) IS DEPENDENT ON THE VERTICAL LAYOUT OF EXISTING STRUCTURES AS INDICATED IN THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL VERIFY THE LAYOUT OF EXISTING ELEMENTS PRIOR TO LAYING OUT NEW CONSTRUCTION. ANY LAYOUT OF EXISTING STRUCTURE THAT DEVIATES FROM THAT SHOWN HEREIN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND RESPONDED TO BY THE ENGINEER PRIOR TO SUBMITTING ASSOCIATED SHOP DRAWINGS FOR REVIEW AND/OR PRIOR TO MOVING FORWARD WITH ASSOCIATED WORK.

FOUNDATIONS

1. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS/REQUIREMENTS OF THE GEOTECHNICAL REPORT.
2. PROVIDE ALL MEASURES NECESSARY FOR THE INSTALLATION OF FOUNDATIONS INCLUDING BUT NOT LIMITED TO DEWATERING AND SHORING.
3. CENTER ALL FOUNDATIONS BENEATH THEIR RESPECTIVE WALL OR COLUMN UNLESS NOTED OTHERWISE.
4. HORIZONTAL JOINTS ARE NOT PERMITTED IN FOUNDATIONS
5. SEE TYPICAL DETAILS FOR CONSTRUCTION OF VERTICAL CONSTRUCTION JOINTS AND LIMITATIONS ON LOCATIONS
6. DO NOT INSTALL PLUMBING OR PLUMBING SLEEVES IN OR THROUGH FOUNDATIONS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, OR WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD
7. PLUMBING RUNS BELOW GRADE SHALL NOT RUN BENEATH AND PARALLEL TO CONTINUOUS FOOTINGS
8. ALL REINFORCING STEEL SHALL BE SUPPORTED ON CHAIRS OR BOLSTERS TO PROPER ELEVATION AND SHALL BE SECURELY ANCHORED
9. FOUNDATION SIZES SHOWN ASSUME FOOTINGS ARE CONSTRUCTED WITH SIDE FORMS
10. EARTH FORMED FOUNDATIONS ARE PERMITTED IF SUBGRADE IS STABLE ENOUGH TO HOLD THE FACE OF THE EXCAVATION. ALL FOUNDATION SIZES FOR EARTH FORMED FOUNDATIONS SHALL BE INCREASED 1" IN ALL DIRECTIONS
11. ALL FOUNDATION EXCAVATIONS SHALL BE DEWATERED PRIOR TO PLACING CONCRETE
12. BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL CONCRETE OR GROUT HAS ACHIEVED 75% OF THE REQUIRED STRENGTH.
13. FIELD TESTING AND INSPECTION OF FOUNDATIONS, SUBGRADE MATERIALS AND SUBGRADE PREPARATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

CAST-IN-PLACE CONCRETE

1. ALL CAST-IN-PLACE CONCRETE SHALL CONFORM TO SPECIFICATION SECTION 033000-"CAST-IN-PLACE CONCRETE"
2. LAP ALL WWM/WWR ONE MESH SPACING PLUS A 2" OFFSET AND SECURELY ANCHOR
3. ALL CONTINUOUS REINFORCEMENT SHALL BE LAPPED PER SCHEDULES AND DETAILS
4. REINFORCEMENT SHALL BE SECURELY ANCHORED IN POSITION. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARS, STANDEES, OR STIRRUPS TO ANCHOR BARS IN THE PROPER POSITION
5. THE DESIGN AND CONSTRUCTION OF FORMS AND SHORES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. QUALIFIED WORKMEN SHALL CONSTANTLY OBSERVE AND ADJUST FORMS AND SHORES AS REQUIRED DURING CONCRETE PLACEMENT.
7. ALL SHORING SHALL REMAIN IN PLACE UNTIL THE SUPPORTED CONCRETE HAS ATTAINED 75% OF THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.
8. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ANCHOR BOLTS, ETC AS REQUIRED FOR ALL TRADES BEFORE CONCRETE IS POURED. THESE ITEMS SHALL BE INSTALLED AND VERIFIED BY THE CONTRACTOR.
9. SEE PLUMBING DRAWINGS FOR FLOOR DRAINS
10. FOR CONCRETE PADS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS
11. FOR EXTERIOR SIDEWALKS AND CURBS SEE CIVIL DRAWINGS
12. FOR WATERPROOFING REQUIREMENTS SEE ARCHITECTURAL DRAWINGS
13. DOWELS SHALL MATCH WALL REINFORCING UNLESS NOTED OTHERWISE.
14. ALL INTERIOR SLABS SHALL HAVE A STEEL TROWELED FINISH UNLESS NOTED OTHERWISE. COORDINATE SLAB FINISH FOR AREAS WITH SPECIALTY FLOOR COVERINGS WITH SPECIFICATIONS AND FINISH SCHEDULE.
15. ALL REINFORCING STEEL SHALL BE DETAILED FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 318-19 AND ACI SP-066 2004.
16. CLEAR COVER SHALL ACCOUNT FOR CHAMFER STRIPS, REVEALS, ETC. COORDINATE WITH ALL DETAILS FOR UNIQUE COVER REQUIREMENTS. PROVIDE THE FOLLOWING CONCRETE CLEAR COVER OVER REINFORCING (UNO):
    A. FOOTINGS, GRADE BEAMS, TIE BEAMS AND PILE CAPS: 3"
    B. BEAMS, COLUMS AND PEDESTALS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND- 1 1/2"
    C. BEAMS, COLUMNS AND PEDESTALS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
        a. #5 AND SMALLER - 1 1/2"
        b. #6 AND LARGER - 2"
        c. CAST AGAINST EARTH - 3"
    D. SLABS (EXCEPT STRUCTURAL SLABS ON GRADE), JOISTS, AND WALLS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
        a. #11 AND SMALLER - 3/4"
        b. #14 AND #18 - 1 1/2"
    E. SLABS (EXCEPT STRUCTURAL SLABS ON GRADE), JOISTS, AND WALLS EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
        a. #5 AND SMALLER - 1 1/2"
        b. #6 AND LARGER - 2"
        c. CAST AGAINST EARTH - 3"
    F. STRUCTURAL SLABS ON GRADE:
        a. 3" BOTTOM
        b. SEE TYPICAL SLAB COVER REQUIREMENTS FOR TOP STEEL
    G. SLABS ON DECK: WWM CENTERED IN COVER OVER DECK FLUTES
    H. SLABS ON GRADE: WWM IN TOP 1/3, REINFORCING STEEL CENTERED
17. REINFORCEMENT SHALL NOT BE CUT TO ACCOMMODATE THE INSTALLATION OF ANCHORS EMBEDS OR OTHER ITEMS.
18. AT CHANGES OF DIRECTION IN CONTINUOUS CONCRETE ELEMENTS PROVIDE CORNER BARS OF SAME SIZE AND SPACING OF HORIZONTAL REINFORCING.
19. PLACE CONCRETE PER ACI 318-14. USE INTERNAL MECHANICAL VIBRATION FOR ALL CONCRETE. LIMIT MAXIMUM FREE FALL HEIGHT TO 6'-0" AND TAKE PRECAUTIONS TO AVOID CONCRETE SEGREGATION.
20. FIELD TESTING AND INSPECTION OF CONCRETE MATERIALS AND CONCRETE INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

POST INSTALLED STRUCTURAL ANCHORS

1. ALL POST INSTALLED STRUCTURAL ANCHORS SHALL CONFORM TO SPECIFICATION SECTION 050520-"POST INSTALLED STRUCTURAL ANCHORS"
2. NOTED EMBEDMENT DEPTHS ARE FROM FACE OF CMU OR FACE OF CONCRETE
3. ALL INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S DATA AND THE ASSOCIATED ICC REPORT.
4. ALL PERSONNEL INSTALLING ANCHORS SHALL HAVE ATTENDED INSTALLER TRAINING PER THE SPECIFICATIONS
5. FIELD TESTING AND INSPECTION OF POST INSTALLED ANCHOR MATERIALS AND POST INSTALLED ANCHOR INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

STRUCTURAL STEEL FRAMING

1. ALL STRUCTURAL STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 051200-"STRUCTURAL STEEL FRAMING".
2. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO SPECIFICATION SECTION 051213-"ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING".
3. ALL STRUCTURAL STEEL ERECTION SHALL COMPLY WITH AISC 360-16 AND AISC 303-16.
4. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE STRUCTURAL STEEL UNTIL THE PERMANENT LATERAL FORCE RESISTING SYSTEM IS COMPLETED.
6. THE ERECTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER'S SPECIAL INSPECTOR FOR PRE-INSTALLATION VERIFICATION OF SLIP CRITICAL BOLT TIGHTENING PROCEDURES.
7. FIELD TESTING AND INSPECTION OF STRUCTURAL STEEL MATERIALS AND STRUCTURAL STEEL INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

STEEL DECKING

1. ALL STEEL DECKING SHALL CONFORM TO SPECIFICATION SECTION 053100-"STEEL DECKING".
2. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. ALL DECK IS BASED ON UNSHORED CONSTRUCTION UNLESS NOTED OTHERWISE
4. DECK SUPPLIER AND INSTALLER SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED DECK REINFORCING AT DECK OPENINGS AND PENETRATIONS. COORDINATE NUMBER, SIZE AND LOCATION OF OPENINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REINFORCING SHALL INCLUDE, BUT NOT BE LIMITED TO REINFORCING PLATES AND REINFORCING CHANNELS.
5. DECK SHOP DRAWINGS IN AREA OF STEEL JOISTS OR ENGINEERED COLD-FORMED METAL TRUSSES SHALL BE COORDINATED WITH APPROVED TRUSS SHOP DRAWINGS. DO NOT SUBMIT DECKING SHOP DRAWINGS FOR THESE AREAS UNTIL TRUSS AND/OR JOIST SHOP DRAWINGS HAVE BEEN APPROVED.
6. NO ELEMENT (CONDUIT, CEILING, DUCT, PIPING, ETC.) SHALL BE DIRECTLY HUNG FROM STEEL DECKING THAT DOES NOT HAVE STRUCTURAL CONCRETE TOPPING WITHOUT PRIOR WRITTEN APPROVAL FROM THE EOR.
7. FIELD TESTING AND INSPECTION OF STEEL DECKING AND ASSOCIATED INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

COLD-FORMED STEEL FRAMING

1. ALL PERFORMANCE BASED COLD-FORMED STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 054100-"ENGINEERED COLD-FORMED STEEL FRAMING".
2. ALL PRESCRIPTIVE BASED COLD-FORMED STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 054000-" COLD-FORMED STEEL FRAMING".
3. THE USE OF THE TERM LIGHT GAUGE SHALL BE EQUIVALENT TO COLD-FORMED
4. WHERE NOT SPECIFICALLY INDICATED ALL FASTENERS SHALL BE MINIMUM OF #10 SELF DRILLING SCREWS.
5. ALL FASTENERS UNDER SHEATHING SHALL HAVE LOW PROFILE HEADS
6. ALL MECHANICAL FASTENERS SHALL HAVE A MINIMUM SPACING AND EDGE DISTANCE OF THREE FASTENER DIAMETERS
7. ALL MECHANICAL FASTENERS SHALL EXTEND THROUGH CONNECTED MEMBERS BY A MINIMUM OF THREE THREADS
8. FRAMER SHALL ENSURE PUNCHOUT ALIGNMENT WHEN USING COLD ROLLED CHANNEL BRIDGING
9. FIELD TESTING AND INSPECTION OF COLD FORMED STEEL FRAMING AND ASSOCIATED INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.
10. DESIGN PERFORMED IN GENERAL ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATIONS

FIELD WELDING

1. ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 051200-"STRUCTURAL STEEL FRAMING" FOR WELDING STRUCTURAL STEEL FRAMING.
2. ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 053100-"STEEL DECKING" FOR WELDING STEEL DECKING
3. ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 054000-"COLD FORMED METAL FRAMING" OR 054100-"ENGINEERED COLD FORMED METAL FRAMING" FOR WELDING COLD FORMED MEMBERS
4. ALL FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE-STEEL" AND AWS D1.3, "STRUCTURAL WELDING CODE-SHEET STEEL", LATEST EDITIONS.
5. ALL FIELD WELDING SHALL BE IN STRICT ACCORDANCE WITH WRITTEN WELD PROCEDURE (WPS) FOR THE GIVEN WELD CONDITION
6. REPAIR ALL DAMAGED GALVANIZING. PRIMER OR PAINT ONCE WELDING IS COMPLETE
7. ELECTRODES SHALL BE STORED IN STRICT ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.
8. ALL PERSONNEL COMPLETING FIELD WELDS SHALL BE CERTIFIED IN ACCORDANCE WITH AWS TO PERFORM THE GIVEN WELD.
9. FIELD TESTING AND INSPECTION OF FIELD WELDING MATERIALS AND FIELD WELDING SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

STRUCTURAL WOOD SHEATHING

1. ALL STRUCTURAL WOOD SHEATHING SHALL CONFORM TO SPECIFICATION SECTION 061620-"STRUCTURAL WOOD SHEATHING"
2. MINIMUM WIDTH OF SHEATHING PANELS SHALL BE 24" UNLESS NOTED OTHERWISE
3. STAGGER SHEATHING JOINTS UNLESS NOTED OTHERWISE
4. SPACE PANEL EDGES 1/8" APART
5. SEE TYPICAL DETAILS FOR GLUING REQUIREMENTS FOR FLOOR SHEATHING
6. SEE TYPICAL DETAILS FOR FASTENING REQUIREMENTS FOR SPECIFIC SHEATHING APPLICATIONS
7. FIELD TESTING AND INSPECTION OF STRUCTURAL WOOD SHEATHING AND ASSOCIATED INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

DELEGATED DESIGN ITEMS

1. THE FOLLOWING ENGINEERED SYSTEMS AND COMPONENTS ARE DELEGATED FOR DESIGN TO A QUALIFIED SPECIALTY STRUCTURAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA AND CONTRACTED BY THE CONTRACTOR. THESE SYSTEMS AND COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO:
    A. SEISMIC BRACING FOR NON-STRUCTURAL COMPONENTS PER ASCE-7 CHAPTER-13
    B. STEEL STAIR AND ACCESS LADDERS
    C. NON-LOADBEARING LIGHT GAUGE STEEL (COLD-FORMED METAL FRAMING)
    D. STRUCTURAL STEEL CONNECTIONS NOT INDICATED OR DETAILED ON THE CONTRACT DOCUMENTS
2. DELEGATED ENGINEERED SYSTEMS AND COMPONENTS SHALL SATISFY THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES AND MATERIAL STANDARDS, INCLUDING AT A MINIMUM IBC 2021 AND ASCE 7-16
3. SEE SPECIFICATION, BASIS OF DESIGN NOTES AND MATERIAL SPECIFIC NOTES FOR MATERIAL REQUIREMENTS, DESIGN CRITERIA, DETAILS OF THE SYSTEM/COMPONENT INTERFACE WITH THE PRIMARY STRUCTURE, AND SUBMITTAL AND CALCULATION REQUIREMENTS.

STRUCTURAL DESIGN CRITERIA

DESIGN BASED ON THE FOLLOWING CODES:
- INTERNATIONAL BUILDING CODE (IBC) 2021
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7-16 - *MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES*

1. FOUNDATION DESIGN VALUES:
    ALLOWABLE BEARING CAPACITY 3000 PSF (PER GEOTECH)
    DIFFERENTIAL SETTLEMENT 1/2 INCH
    TOTAL SETTLEMENT 1 INCH
2. GRAVITY LOAD DESIGN VALUES:

    FLOOR LIVE LOADS: (1ST FLOOR)
    STORAGE 125-PSF
    CORRIDORS 100-PSF
    WORKSHOP 100-PSF
    RESTROOMS 100-PSF
    OFFICES 50-PSF
    CLASSROOMS 40-PSF

    FLOOR LIVE LOADS: (ELEVATED FLOORS)
    STORAGE OVER CLASSROOM 30-PSF

    ROOF LIVE LOADS:
    SLOPING ROOF 20-PSF

    GROUND SNOW LOADS:
    SNOW 10-PSF

    DEAD LOADS:
    ACTUAL MATERIAL WEIGHTS PER ASCE 7-16, SEE ARCHITECTURAL DRAWINGS FOR ROOF, WALL, AND FLOOR CONSTRUCTION
3. SEISMIC DESIGN VALUES:
    Ss = 0.346
    S1 =0.114
    Sds =0.352
    Sd1 =0.180
    SITE CLASS: "D"
    BUILDING CATEGORY: "III"
    IMPORTANCE FACTOR: Ie = 1.25
    SEISMIC DESIGN CATEGORY: "C"
    ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (ELF)
    SEISMIC FORCE RESISTING SYSTEM:
    -STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
    RESPONSE MODIFICATION FACTOR: R = 3.0
    DEFLECTION AMPLIFICATION FACTOR: Cd = 3.0
    SYSTEM OVERSTRENGTH FACTOR: OMEGA = 3.0

    ALLOWABLE INTERSTORY DRIFT: 0.02 Hsx
4. WIND LOAD DESIGN VALUES:
    V = 125 mph (3-sec gust)
    BUILDING CATEGORY: "III"
    EXPOSURE CATEGORY: "C"
    ENCLOSURE CLASSIFICATION: PARTIALLY ENCLOSED

    DIRECTIONAL FACTOR: Kd = 0.85
    TOPOGRAPHIC FACTOR: Kzt = 1.0
    VELOCITY EXPOSURE COEFFICIENT: Kz = 0.892
    VELOCITY PRESSURE: q = 30.3 psf

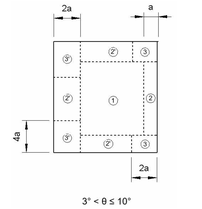
    INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.55

    ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

    COMPONENTS & CLADDING PRESSURES: (INTERPOLATION PERMITTED)
    ELEMENTS RECEIVING INTERNAL PRESSURE

COMPONENT & CLADDING PRESSURES (MONOSLOPE - SLOPE BETWEEN 3 AND 10 DEG)

COMPONENT	ZONE	AREA (SQ. FT.)	MAXIMUM WIND PRESSURE (PSF)	MINIMUM WIND PRESSURE (PSF)
ROOF FIELD	1	10	16	-50.1
	1	20	16	-50.1
	1	50	16	-50.1
	1	100	16	-50.1
ROOF EDGE	2	10	16	-56.1
	2	20	16	-55.2
	2	50	16	-54.0
	2	100	16	-53.1
ROOF EDGE	2'	10	16	-65.2
	2'	20	16	-64.3
	2'	50	16	-63.1
	2'	100	16	-62.2
ROOF CORNER	3	10	16	-71.3
	3	20	16	-65.8
	3	50	16	-58.6
	3	100	16	-53.1
ROOF CORNER	3'	10	16	-95.6
	3'	20	16	-86.4
	3'	50	16	-74.4
	3'	100	16	-65.2

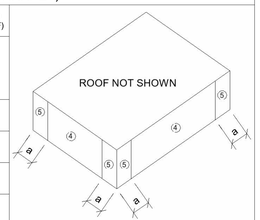


MONOSLOPE ROOF ZONE DIAGRAM
a=4.2-ft

GENERAL NOTES:
A. LOADS PROVIDED ARE LRFD UNFACTORED WIND LOADS.
B. LOADS MAY BE FACTORED BY 0.6 TO ACHIEVE ASD/SERVICE LEVEL LOADS.
C. LOADS MAY BE FACTORED BY 0.42 FOR DEFLECTION CALCULATIONS.

WALL PRESSURES (W/O PARAPET)

COMPONENT	ZONE	AREA (SQ. FT.)	MAXIMUM WIND PRESSURE (PSF)	MINIMUM WIND PRESSURE (PSF)
WALL FIELD	4	10	32.8	-35.5
	4	20	31.3	-34.0
	4	50	29.4	-32.1
	4	100	27.9	-30.7
WALL CORNER	5	10	32.8	-43.7
	5	20	31.3	-40.8
	5	50	29.4	-36.9
	5	100	27.9	-34.0



WALL ZONE DIAGRAM
a=4.2-ft

GENERAL NOTES:
A. LOADS PROVIDED ARE LRFD UNFACTORED WIND LOADS.
B. LOADS MAY BE FACTORED BY 0.6 TO ACHIEVE ASD/SERVICE LEVEL LOADS.
C. LOADS MAY BE FACTORED BY 0.42 FOR DEFLECTION CALCULATIONS.

GMC
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Columbia, SC 29201
T 803.766.1235
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ISSUE DATE
CD SET 04/17/2026

DRAWN BY: WJH
CHECKED BY: JBJ

ADC ENGINEERING
1345 BOOKMAN ROAD, SUITE 212
ROCK HILL, SC 29063
803-792-2080
ADCENGINEERING.COM

04/17/26

PROFESSIONAL ENGINEER — No. 17451 — JOSEPH B. JOHNSON — STATE OF SOUTH CAROLINA

C.A.R.O.L.I.N.A. — NO. LVIII — ADC ENGINEERING NO. 30253 — C.A.R.O.L.I.N.A.

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170

GMC # ACOL240010
ADC # 24457

GENERAL NOTES

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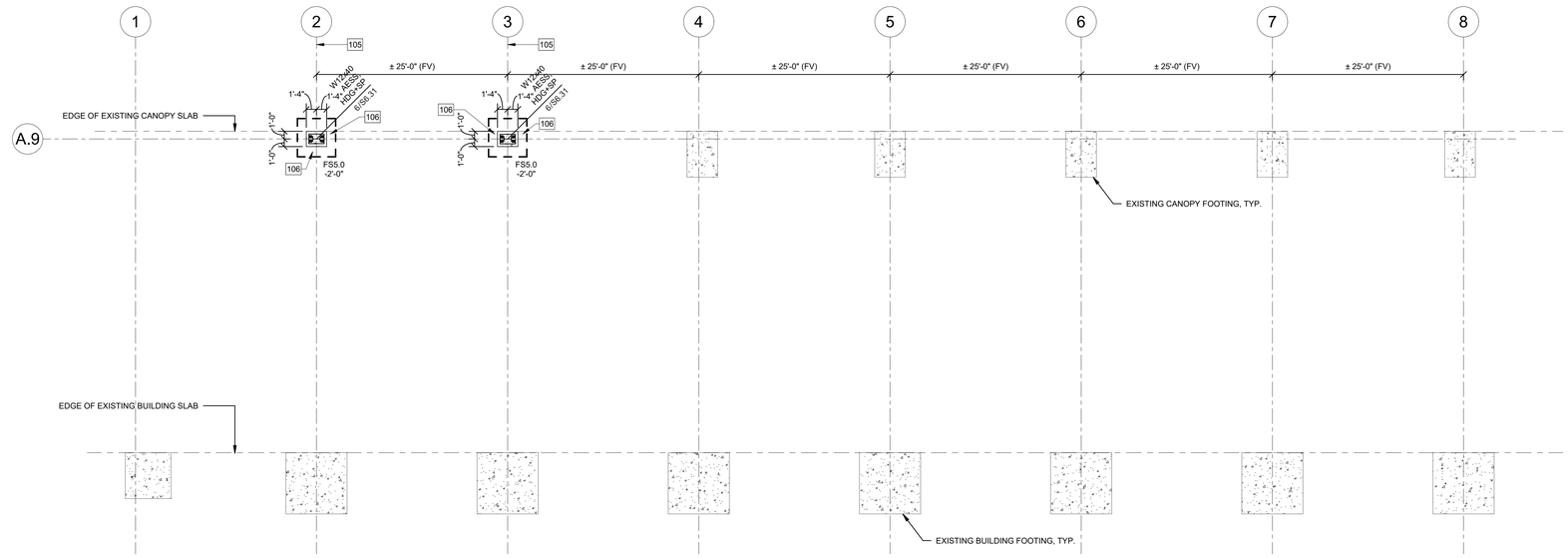
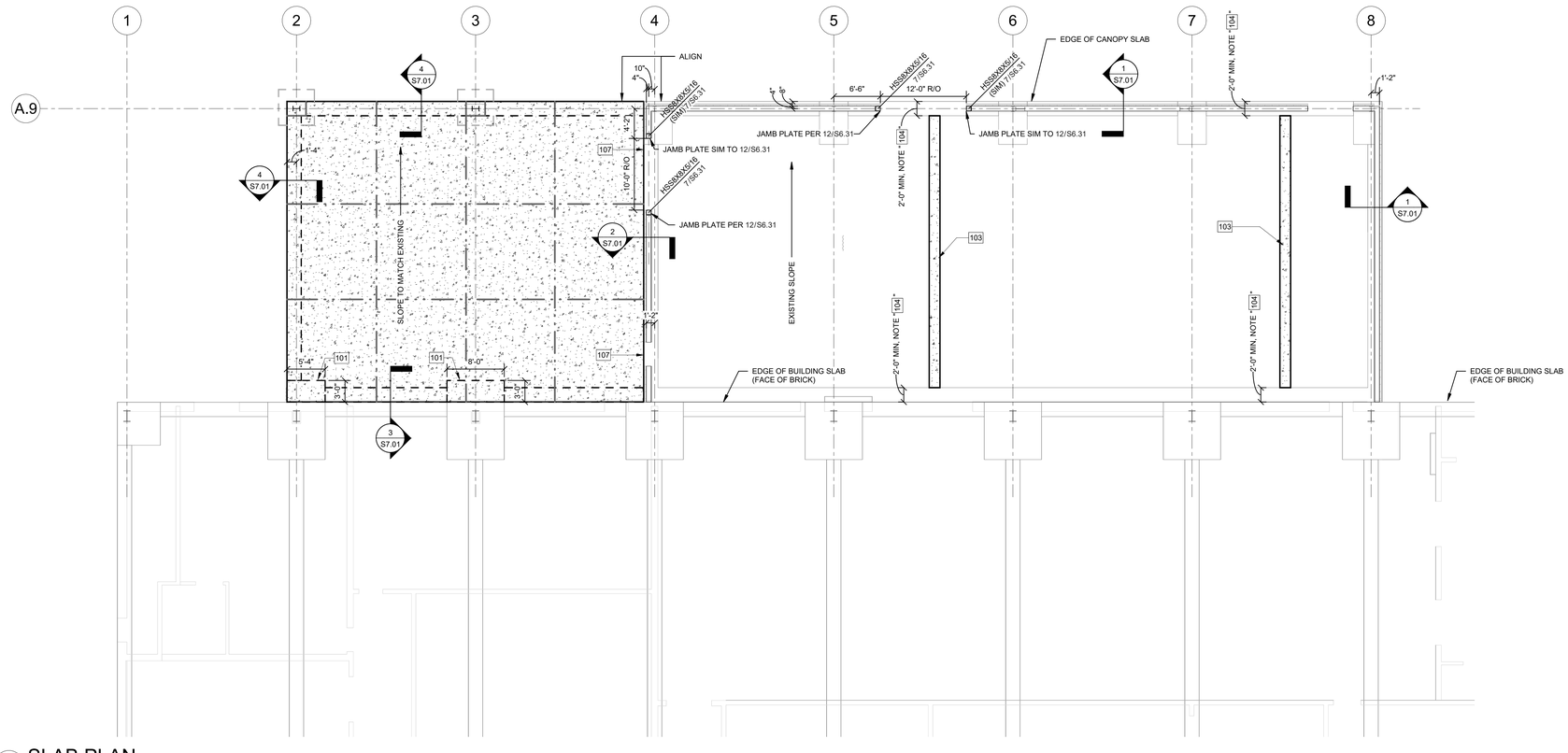


1 FOUNDATION PLAN
1/8" = 1'-0"

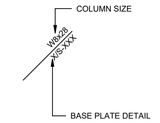


2 SLAB PLAN
1/8" = 1'-0"

GENERAL NOTES (THIS SHEET ONLY)

- TOP OF FOOTING = SEE PLAN
- ELEVATIONS MEASURED FROM FFE OF EXISTING BUILDING SLAB, UNO.
- CENTER ALL SPREAD FOOTINGS BENEATH COLUMNS/PIERS/PILASTERS
- SEE 1/S6.02 FOR PIPING/CONDUIT BELOW FOOTINGS
- SEE 5/S6.01 FOR EXCAVATION LIMITS ADJACENT TO FOOTINGS
- SEE ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS OF NON-LOAD BEARING INTERIOR PARTITIONS
- AESS = ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, SEE SPECS
- HDG = HOT DIP GALVANIZED
- SP = SHOP PRIMED WITH SPECIAL PRIMER FOR HIGH PERFORMANCE FIELD PAINT, SEE SPECS
- (FV) = FIELD VERIFY PRIOR TO STEEL FABRICATION OR CONSTRUCTION

STEEL COLUMN LEGEND



SPREAD FOOTING SCHEDULE					
FOOTING TYPE	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCING	TOP REINFORCING
F35.4	3'-0"	5'-4"	2'-0"	(9)-#5'S EW	N/A
F38	3'-0"	8'-0"	2'-0"	(9)-#5'S EW	N/A
FS5.0	5'-0"	5'-0"	1'-6"	(6)-#5'S EW	N/A

KEYED NOTES (THIS SHEET ONLY)

101 24" THICK FOOTING EXTENSION, OF DIMENSIONS NOTED, DOWELED INTO EXISTING 6" FROM BOTTOM WITH (9) #5 BARS WITH CARTRIDGE INJECTION ADHESIVE @ 24" EMBEDMENT & (4) #5 BARS PARALLEL WITH EXISTING

103 APPROXIMATE LOCATION OF TRENCHING FOR NEW MEP PIPING, TO BE FINALIZED BY CONTRACTOR. CONTRACTOR SHALL NOT INITIATE TRENCHING IN LOCATIONS OTHER THAN THOSE SHOWN ON PLAN WITHOUT PRIOR AUTHORIZATION OF EOR. SLAB REMOVED DURING TRENCHING TO BE REPAIRED WITH 6" SLAB PER 6/S6.01

104 TRENCHING IS PROHIBITED FOR EXTENT NOTED, NEW MEP PIPING SHALL BE ROUTED UNDERNEATH EXISTING SLAB/FOOTING

105 ALIGN NEW COLUMN GRID WITH EXISTING BUILDING FRAME LINE

106 INSTALL SLAB TURNDOWN DOWELS AT FOOTING PER 3/S6.02

107 DOWEL NEW 6" SLAB TO EXISTING THIS LINE PER 6/S6.01

GENERAL NOTES (THIS SHEET ONLY)

- TYPICAL SLAB ON GRADE CONSTRUCTION IS 6" SLAB W/ ONE LAYER OF #4 BARS @ 18" O.C. EACH WAY (CENTERED) ON VAPOR RETARDER ON 4" CAPILLARY BARRIER ON COMPACTED SUBGRADE. SEE SPECS FOR FINISH REQUIREMENTS. TOP OF SLAB = MATCH EXISTING, UNO
- INDICATES SLAB ON GRADE CONTROL JOINT, SEE 3/S6.01
- R=X" DENOTES SLAB RECESS OF "X" INCHES, COORDINATE EXTENT OF RECESSES WITH ARCHITECTURAL DRAWINGS.
- DENOTES STEP IN TOP OF SLAB ELEVATION

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CD SET 04/17/2026

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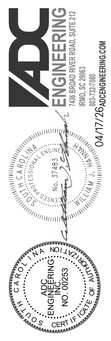

AMSC EXPANSION - AIRPORT
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29170

GMC # ACOL240010
ADC # 24457

FOUNDATION AND SLAB PLANS

S1.01

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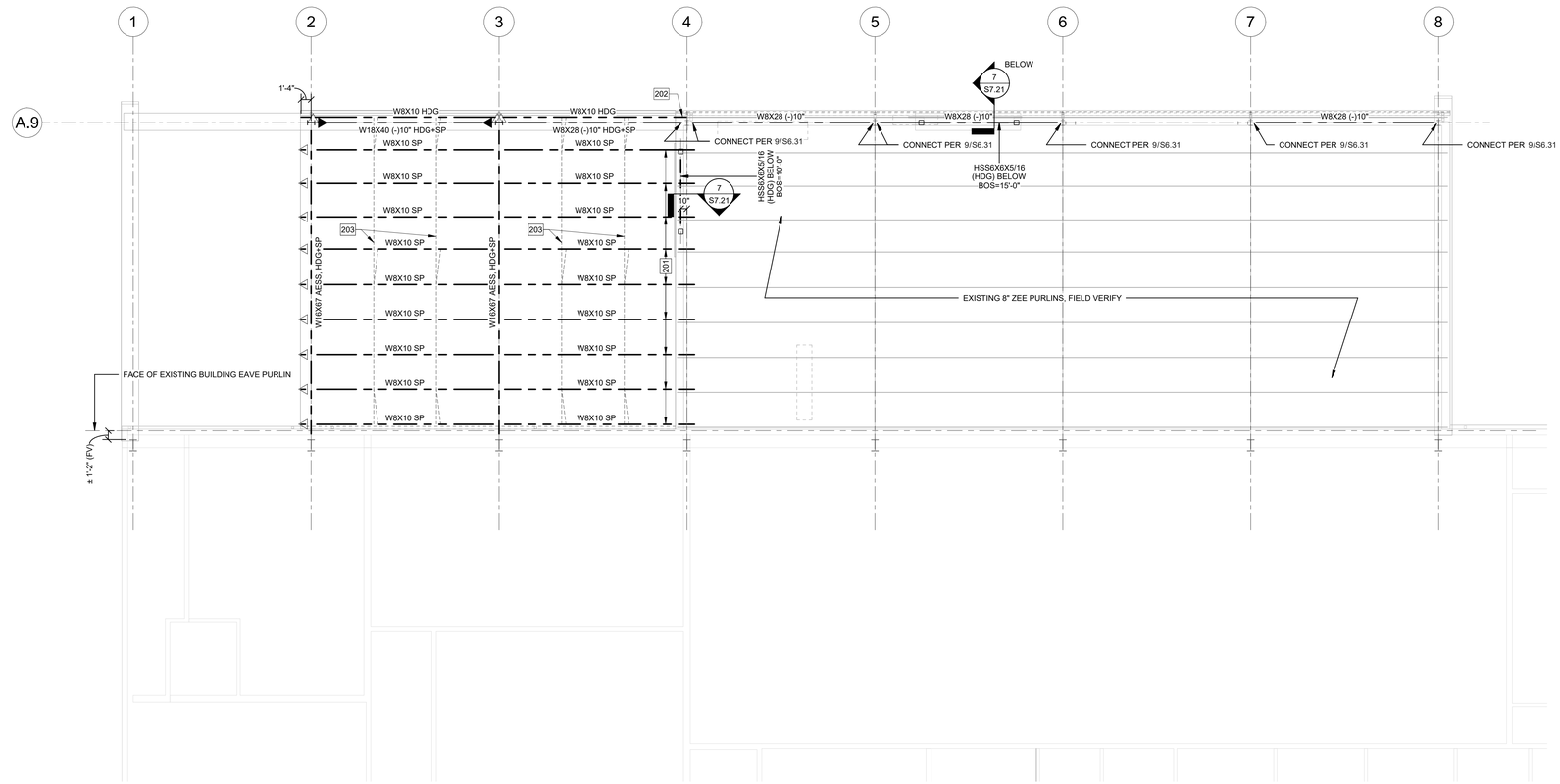


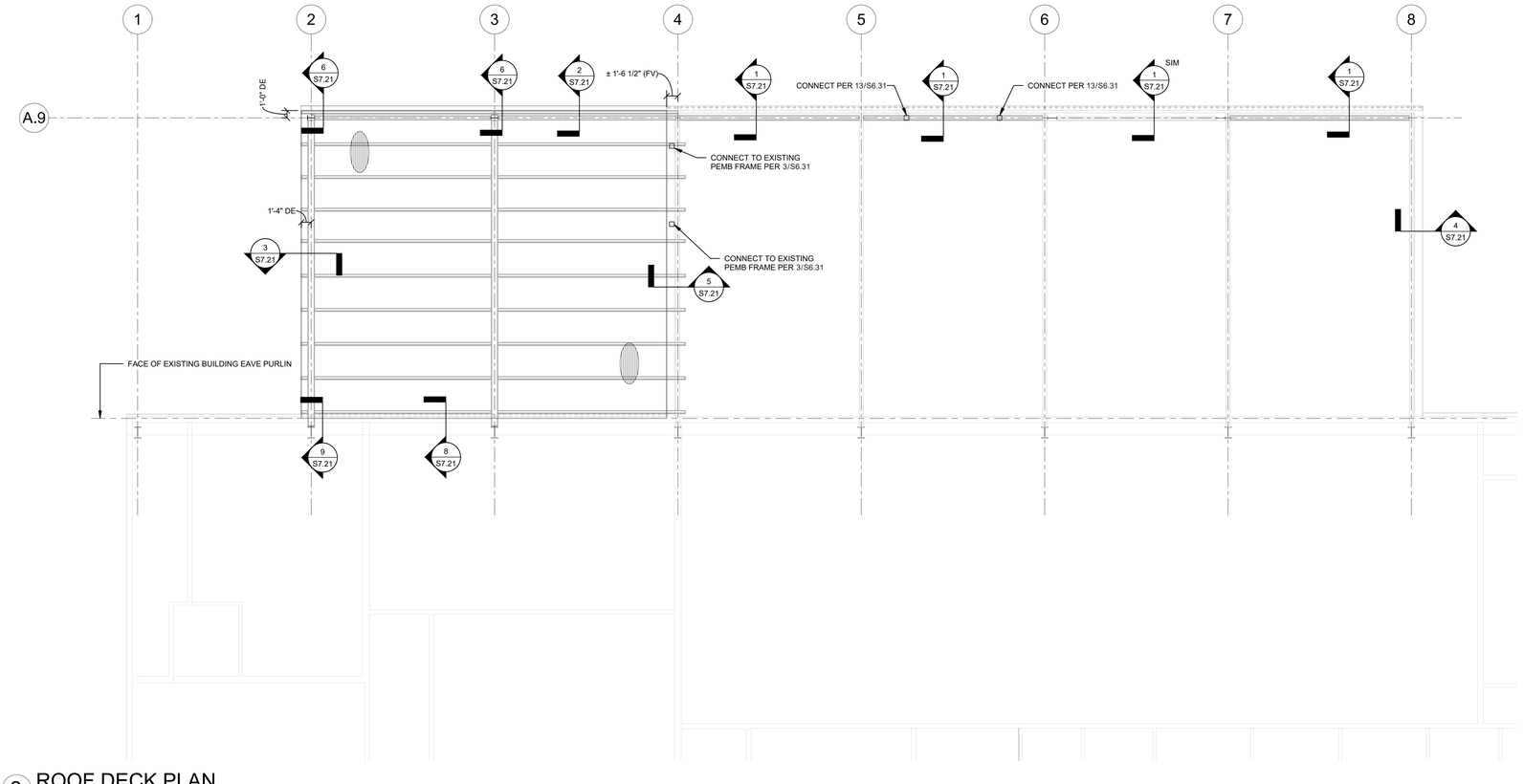
1 ROOF FRAMING PLAN
1/8" = 1'-0"

GENERAL NOTES (THIS SHEET ONLY)

- TOP OF STEEL = MATCH EXISTING TOP OF PURLIN, UNO.
- TOS = TOP OF STEEL
- TYPICAL W8x10 PURLINS ARE CANTED WITH THE ROOF PLANE
- FRAMING WITH "(-)X"" DESIGNATION IS NOT CANTED, AND LOCATED "X"-INCHES (VERTICAL PROJECTION) BELOW TYPICAL TOP OF STEEL
- SEE STEEL BEAM LEGEND (1/S6.31) FOR BEAM ANNOTATIONS AND MINIMUM CONNECTION DESIGN LOADINGS WHERE NOT INDICATED OTHERWISE
- AESS = ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, SEE SPECS
- HDG = HOT DIP GALVANIZED
- SP = SHOP PRIMED WITH SPECIAL PRIMER FOR HIGH PERFORMANCE FIELD PAINT, SEE SPECS
- (FV) = FIELD VERIFY PRIOR TO STEEL FABRICATION OR CONSTRUCTION

KEYED NOTES (THIS SHEET ONLY)

201	FIELD MEASURE EXISTING PURLINS AND LOCATE W8 PURLINS ADJACENT
202	TRIM EXISTING EAVE PURLIN TO COLUMN CENTERLINE AND EXTEND NEW EAVE PURLIN TO CENTERLINE, APPLY 3/16 x 2" FILLET WELD BOTH SIDES OF BOTTOM FLANGE AT BEARING
203	INSTALL PURLIN BOTTOM FLANGE BRACING AT THIRD-POINTS PER 8/S6.31



2 ROOF DECK PLAN
1/8" = 1'-0"

GENERAL NOTES (THIS SHEET ONLY)

- TYPICAL ROOF DECK CONSTRUCTION IS TO MATCH EXISTING (CONTRACTOR TO FIELD VERIFY, BOD = 24" WIDE GALVALUME DOUBLE-LOK PANELS), UNO. SEE PLAN AND SPECIFIC DETAILS FOR ADDITIONAL SUPPORT AND REINFORCING REQUIREMENTS. FASTENING TO BE SPECIFIED BY DECK SUPPLIER.
- DE=DECK EDGE
- PROVIDE FLAT SUMP PLATES AT ALL ROOF DRAINS, SEE ARCH FOR LOCATIONS

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04/17/26

PROFESSIONAL ENGINEER — No. 37483 — JOSEPH BRANDON JOLLY — STATE OF SOUTH CAROLINA

CERTIFICATE OF AUTHORIZATION — N.A. — NO LYCENSE — ADC ENGINEERING — NO. 00253 — STATE OF SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION

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ADC # 24457

ROOF FRAMING AND DECK PLANS

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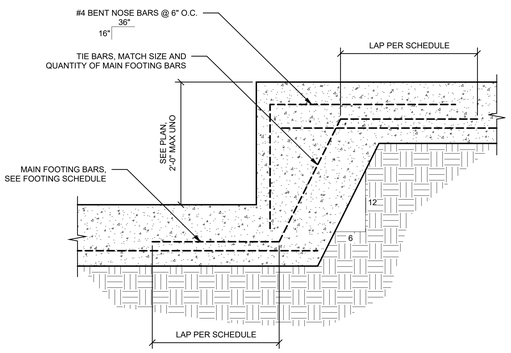
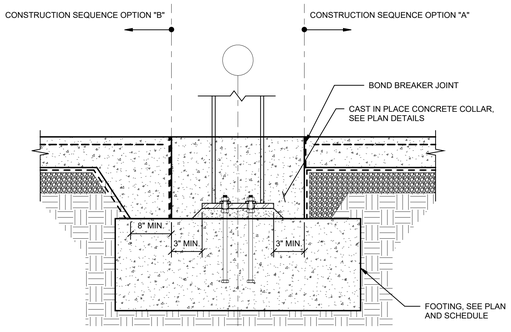


GENERAL NOTES:
A. PROVIDE STEP FOOTINGS AT ALL LOCATIONS INDICATED ON PLAN
B. PROVIDE STEP FOOTINGS AS REQUIRED TO AVOID PIPING AND OTHER MISC. MECHANICAL ITEMS
C. DO NOT STEP GRADE BEAM OR TIE BEAM FOOTING WITHOUT APPROVAL FROM ENGINEER

7 TYP. STEP FOOTING
1" = 1'-0"



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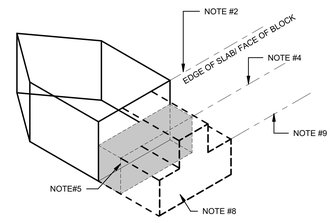
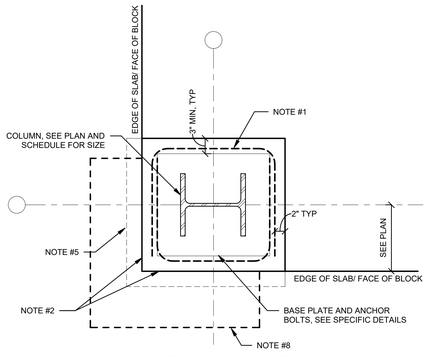
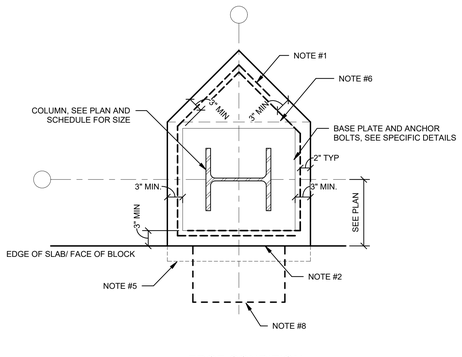


PERIMETER ISOMETRIC



OUTSIDE CORNER CONDITION

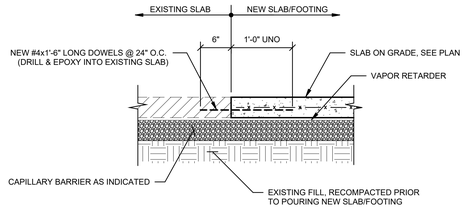


EDGE CONDITION

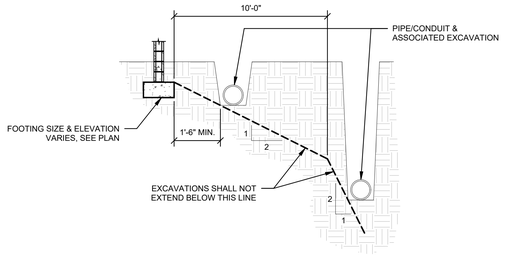
GENERAL NOTES:
A. CONCRETE COLLARS ARE TYPICAL AT ALL STEEL COLUMNS IN SLAB ON GRADE CONDITION UNO
B. COORDINATE WITH SLAB PLANS FOR SCHEMATIC REPRESENTATION OF WHICH CONFIGURATION SHALL BE USED AT EACH SPECIFIC COLUMN LOCATION
C. TOP OF COLLAR SHALL MATCH TOP OF ADJACENT SLAB UNO. COORDINATE WITH RECESSED SLABS AND UPFIT SLAB REQUIREMENTS AS OCCURS
D. COORDINATE TOP OF COLLAR WITH BOTTOM OF SLAB ELEVATION AT "TIGHT" PINWHEEL CONTROL JOINT CONDITIONS AS OCCUR
E. COLLAR SIZE SHALL BE COORDINATED TO PROVIDE 3" CLEAR CONCRETE COVER AROUND ALL STEEL BELOW TOP OF CONCRETE INCLUDING BASE PLATES, COLUMNS, BRACES AND GUSSET PLATES
F. WHERE SPECIFICALLY INDICATED, COAT COLUMN, BASE PLATE, AND ANCHOR RODS WITH COLUMN BASE PAINT PRIOR TO POURING CONCRETE COLLAR
G. DETAIL IS TYPICAL AT SLAB ON GRADE ONLY
H. COORDINATE COLLAR GEOMETRY REQUIREMENTS WITH PLAN NOTES AND SPECIFIC PLAN DETAILS AS OCCUR
I. SLAB MUST BE TOED DOWN TO TOP OF FOOTING WHERE SLAB IS POURED BEFORE STEEL ERECTION AND COLLAR CONSTRUCTION (CONSTRUCTION SEQUENCE OPTION "B")

KEYED NOTES:
1. PROVIDE (2)-PIECE #3 TIES SPACED AT 6" O.C. VERTICALLY IN FULL HEIGHT OF COLLAR, MINIMUM NUMBER OF (2)-SETS OF TIES PER COLLAR
2. AT LOCATIONS WITH ADJACENT CMU WALL CONSTRUCTION, THE COLLAR SHALL BE EXTENDED TO FAR FACE OF CMU WHERE 3" CLEAR COVER CANNOT BE ACHIEVED AT NEAR FACE OF CMU. DO NOT TERMINATE COLLAR WITHIN THE WIDTH OF CMU. COORDINATE ADDITIONAL EXTENSIONS OF COLLAR BELOW GRADE AS REQUIRED TO PROVIDE 3" CLEAR COVER
3. EXTEND COLLAR BEYOND PARALLEL SLAB EDGE AS REQUIRED TO ACHIEVE 3" CLEAR COVER
4. COORDINATE ELEVATION OF COLLAR EXTENSION TO PROVIDE REQUIRED 3" COVER, BUT TO BE AS LOW AS POSSIBLE AND BELOW FINISHED GRADE
5. STEP COLLAR BEYOND EDGE OF SLAB/CMU BELOW GRADE AS REQUIRED TO PROVIDE 3" CLEAR COVER. EXTEND COLLAR TO FAR FACE OF MASONRY VENEER WHERE 3" CLEAR COVER CANNOT BE ACHIEVED AT NEAR FACE OF MASONRY VENEER
6. LINE OF ALTERNATE "SQUARE" COLLAR ORIENTATION AS INDICATED ON PLANS AND WHEN "NORMAL" PINWHEEL CONTROL JOINT CONFIGURATION IS INDICATED
7. LINE OF ALTERNATE "ROUND" COLLAR CONFIGURATION AS INDICATED ON PLANS
8. COORDINATE COLLAR EXTENSIONS FOR WALL EXTENSIONS/PILASTERS WHERE INDICATED ON FOUNDATION AND/OR SLAB PLANS
9. COORDINATE ELEVATION OF STEP COLLAR EXTENSION (AS OCCURS) WITH PLAN NOTES

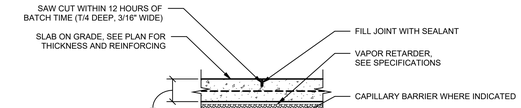
4 TYP. STEEL COLUMN CONCRETE COLLAR (SLAB ON GRADE)
1" = 1'-0"



6 TYP. NEW-TO-EXISTING SLAB CONSTRUCTION
1" = 1'-0"

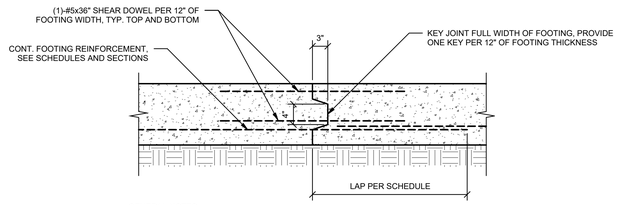


TYP. EXCAVATION LIMITS PARALLEL TO FOOTINGS
5 1/4" = 1'-0"



GENERAL NOTES:
A. PROVIDE JOINTS AS INDICATED ON PLANS
B. PROVIDE JOINTS SO THAT NO ONE SIDE OF A JOINTED SLAB SEGMENT IS MORE THAN 1-1/2 TIMES THE PERPENDICULAR SIDE
C. PROVIDE JOINTS AT ALL RE-ENTRANT CORNERS
D. PROVIDE JOINTS WHERE SLAB EXTEND THROUGH DOORWAY OF CMU WALL CONSTRUCTION THAT EXTENDS TO FOUNDATION BELOW
E. AT CONTRACTOR'S OPTION JOINTS MAY BE HAND TOOLED

3 TYP. SLAB-ON-GRADE CONTROL JOINT (CJ)
1" = 1'-0"



GENERAL NOTES:
A. DO NOT LOCATE CONSTRUCTION JOINTS IN COLUMN FOOTINGS OR ENLARGED SECTIONS OF CONTINUOUS STRIP FOOTINGS.
B. EXTEND REINFORCING FROM FIRST POUR THRU BULKHEAD ADEQUATE DISTANCE TO ENSURE A CLASS "B" SPLICE WITH REINFORCING FOR SECOND POUR.

2 TYP. FOOTING CONSTRUCTION JOINT
1" = 1'-0"

BAR SIZE	f'c = 3000 PSI						f'c = 4000 PSI						f'c = 5000 PSI						f'c = 6000 PSI					
	Ld	Lt	Lsb	Lsbt	Ldc	Lsc	Ld	Lt	Lsb	Lsbt	Ldc	Lsc	Ld	Lt	Lsb	Lsbt	Ldc	Lsc	Ld	Lt	Lsb	Lsbt	Ldc	Lsc
#3	17"	22"	22"	28"	9"	12"	15"	19"	19"	25"	8"	12"	13"	17"	17"	22"	8"	12"	12"	16"	16"	20"	8"	12"
#4	22"	29"	29"	38"	11"	15"	19"	25"	25"	33"	10"	15"	17"	23"	23"	29"	9"	15"	16"	21"	21"	27"	9"	15"
#5	28"	36"	36"	47"	14"	19"	24"	31"	31"	41"	12"	19"	22"	28"	28"	36"	12"	19"	20"	26"	26"	33"	12"	19"
#6	33"	43"	43"	56"	17"	23"	29"	37"	37"	49"	15"	23"	26"	34"	34"	44"	14"	23"	24"	31"	31"	40"	14"	23"
#7	48"	63"	63"	81"	20"	27"	42"	54"	54"	71"	17"	27"	38"	49"	49"	63"	16"	27"	34"	45"	45"	58"	16"	27"
#8	55"	72"	72"	93"	22"	30"	48"	62"	62"	81"	19"	30"	43"	56"	56"	72"	18"	30"	39"	51"	51"	66"	18"	30"
#9	62"	81"	81"	105"	25"	34"	54"	70"	70"	91"	22"	34"	48"	63"	63"	81"	21"	34"	44"	57"	57"	74"	21"	34"
#10	70"	91"	91"	118"	28"	39"	61"	79"	79"	102"	25"	39"	54"	71"	71"	92"	23"	39"	50"	64"	64"	84"	23"	39"
#11	78"	101"	101"	131"	31"	43"	67"	87"	87"	114"	27"	43"	60"	78"	78"	102"	26"	43"	55"	71"	71"	93"	26"	43"
#14	93"	121"	N/A	N/A	38"	N/A	81"	105"	N/A	N/A	33"	N/A	72"	94"	N/A	N/A	31"	N/A	66"	86"	N/A	N/A	31"	N/A
#18	124"	161"	N/A	N/A	50"	N/A	108"	140"	N/A	N/A	43"	N/A	96"	125"	N/A	N/A	41"	N/A	88"	114"	N/A	N/A	41"	N/A

GENERAL NOTES:
A. DEFINITIONS:
TOP BAR: HORIZONTAL BAR W/ MORE THAN 12" OF CONCRETE CAST BELOW
Ld: DEVELOPMENT LENGTH FOR BARS IN TENSION OTHER THAN TOP BARS WHICH SATISFY THE FOLLOWING:
1. W/ CODE MINIMUM TIES THROUGHOUT Ld: CLEAR SPACING ≥ db AND CLEAR COVER ≥ db
2. W/O CODE MINIMUM TIES THROUGHOUT Ld: CLEAR SPACING ≥ 2db AND CLEAR COVER ≥ db
Lt: DEVELOPMENT LENGTH FOR TOP REINFORCING BARS IN TENSION WHICH SATISFY THE FOLLOWING:
1. W/ CODE MINIMUM TIES THROUGHOUT Lt: CLEAR SPACING ≥ db AND CLEAR COVER ≥ db
2. W/O CODE MINIMUM TIES THROUGHOUT Lt: CLEAR SPACING ≥ 2db AND CLEAR COVER ≥ db
Lsb: TENSION LAP SPLICE LENGTH FOR BARS OTHER THAN TOP BARS (CLASS B)
Lsbt: TENSION LAP SPLICE LENGTH FOR TOP BARS (CLASS B)
Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
Lsc: LAP SPLICE LENGTH FOR BARS IN COMPRESSION
db: NOMINAL BAR DIAMETER (IN)
B. DEVELOPMENT AND LAP SPLICE LENGTH FOR BARS IN TENSION SHALL NOT BE LESS THAN 12" AFTER MODIFICATION FACTORS ARE APPLIED
C. DEVELOPMENT LENGTH FOR BARS IN COMPRESSION SHALL NOT BE LESS THAN 8" AFTER MODIFICATION FACTORS ARE APPLIED
D. LAP SPLICE LENGTH FOR BARS IN COMPRESSION SHALL NOT BE LESS THAN 12" AFTER MODIFICATION FACTORS ARE APPLIED
E. VALUES FOR BARS IN TENSION ARE VALID FOR GRADE 60 REINFORCING WITH fy = 60 ksi. MODIFY VALUES FOR ALTERNATE GRADES AS FOLLOWS:
1. FOR GRADE 40, MULTIPLY VALUES IN TABLE BY 0.67 (INCLUDES MODIFICATION FOR fy AND GRADE MODIFICATION FACTOR)
2. FOR GRADE 80, MULTIPLY VALUES IN TABLE BY 1.53 (INCLUDES MODIFICATION FOR fy AND GRADE MODIFICATION FACTOR)
3. FOR GRADE 100, MULTIPLY VALUES IN TABLE BY 2.17 (INCLUDES MODIFICATION FOR fy AND GRADE MODIFICATION FACTOR)
F. VALUES FOR Ldc ARE VALID FOR GRADE 60 REINFORCING WITH fy = 60 ksi. MODIFY VALUES FOR ALTERNATE GRADES AS FOLLOWS:
1. FOR GRADE 40, MULTIPLY VALUES IN TABLE BY 0.67
2. FOR GRADE 80, MULTIPLY VALUES IN TABLE BY 1.33
3. FOR GRADE 100, MULTIPLY VALUES IN TABLE BY 1.67
G. VALUES FOR Lsc ARE VALID FOR GRADE 60 REINFORCING AND BELOW WITH fy ≤ 60 ksi. MODIFY VALUES FOR ALTERNATE GRADES AS FOLLOWS:
1. FOR GRADE 80, MULTIPLY VALUES FOR Lsc BY 1.6
2. FOR GRADE 100, MULTIPLY VALUES FOR Lsc BY 2.2 (VALUE SHALL NOT BE LESS THAN Lsb OR Lsbt AS APPROPRIATE)
H. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF REQUIREMENTS FOR Ld, Lt, Lsb, Lsbt ARE NOT MET
I. DIVIDE VALUES IN TABLE BY 0.75 FOR USE OF LIGHTWEIGHT CONCRETE
J. FOR USE OF EPOXY COATING:
1. MULTIPLY VALUES IN TABLE BY 1.5 FOR CLEAR COVER < 3db OR CLEAR SPACING < 6db
2. MULTIPLY VALUES IN TABLE BY 1.2 OTHERWISE
K. MULTIPLY VALUES FOR Ldc BY 0.75 IF BARS IN COMPRESSION ARE ENCLOSED WITHIN:
1. SPIRAL
2. CIRCULAR TIE WITH db ≥ 1/4" AND PITCH ≤ 4"
3. NO. 4 OR D20 WIRE TIES SPACED ≤ 4" ON CENTER
4. HOOPS SPACED ≤ 4" ON CENTER
L. MODIFY ALL VALUES FOR BUNDLED BARS AS FOLLOWS:
1. MULTIPLY VALUES IN TABLE BY 1.2 FOR BUNDLES WITH THREE BARS OR LESS
2. MULTIPLY VALUES IN TABLE BY 1.33 FOR BUNDLES WITH FOUR BARS
3. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE SPLICED
4. AN EQUIVALENT DIAMETER CORRESPONDING TO THE AREA OF THE SUM OF THE BARS IN THE BUNDLE SHALL BE USED TO DETERMINE CLEAR SPACING AND COVER THRESHOLDS FOR Ld, Lt, AND EPOXY COATING MULTIPLIER

1 TYP. STRAIGHT BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE
1" = 1'-0"

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ADC # 24457

TYPICAL CONCRETE DETAILS

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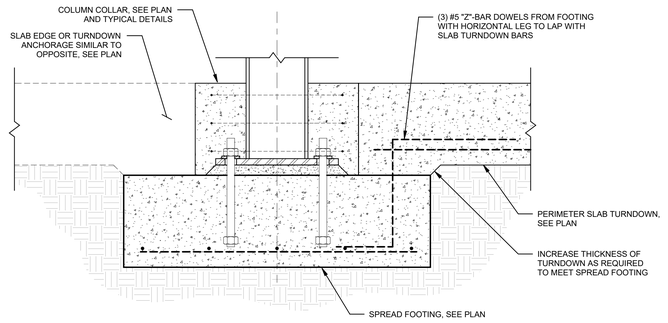
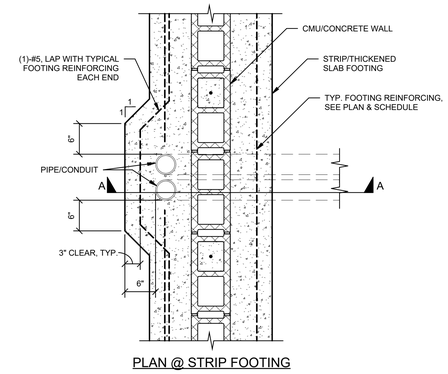


3 TYP. TURNDOWN DOWEL TO FOOTING
1" = 1'-0"

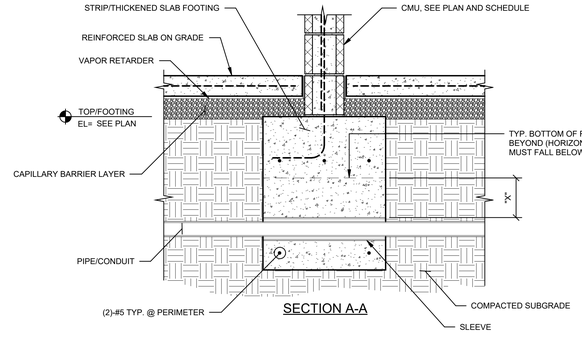
SECTION A-A



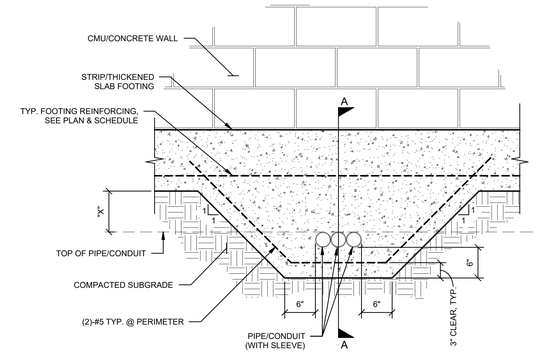
PLAN @ STRIP FOOTING

GENERAL NOTES:
A. IN NO CASE SHALL HORIZONTAL RUN OF PIPE/CONDUIT (INCLUDING ELBOWS) ENCROACH WITHIN LIMITS OF REQUIRED FOOTING SIZE. IF SUCH A CASE ARISES, FOOTINGS SHALL BE DROPPED BELOW PIPE/CONDUIT (SEE ADDITIONAL TYPICAL DETAILS FOR STEPPED FOOTING REQUIREMENTS AND PIPE/CONDUIT WALL PENETRATIONS)
B. PIPING OR CONDUIT SHALL NOT BE PERMITTED BELOW SPREAD FOOTINGS

2 TYP. PIPE/CONDUIT VERTICAL PENETRATION AT STRIP/THICKENED SLAB FOOTING
1" = 1'-0"



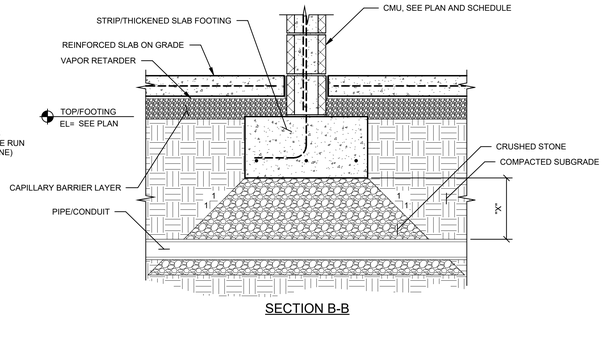
SECTION A-A



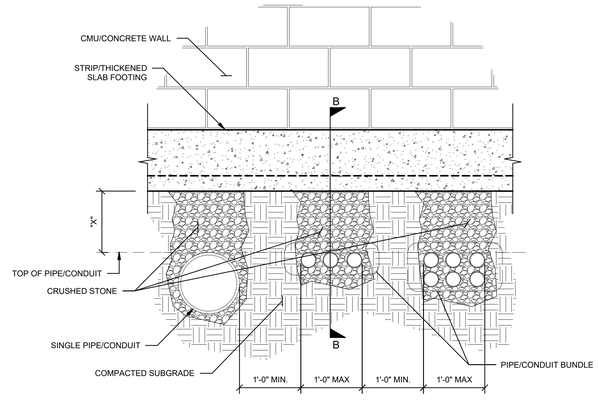
CASE 1
(0'-0" < "X" ≤ 1'-0")

GENERAL NOTES:
A. TOP OF FOOTING VARIES, COORDINATE WITH PLANS
B. IN NO CASE SHALL HORIZONTAL RUN OF PIPE/CONDUIT (INCLUDING ELBOWS) ENCROACH WITHIN LIMITS OF REQUIRED FOOTING SIZE. IF SUCH A CASE ARISES, FOOTINGS SHALL BE DROPPED BELOW PIPE/CONDUIT (SEE ADDITIONAL TYPICAL DETAILS FOR STEPPED FOOTING REQUIREMENTS AND PIPE/CONDUIT WALL PENETRATIONS)
C. PIPE/CONDUIT SHALL NOT BE PERMITTED BELOW SPREAD FOOTINGS

1 TYP. PIPE/CONDUIT BELOW STRIP/THICKENED SLAB FOOTING
1" = 1'-0"



SECTION B-B



CASE 2
(1'-0" < "X" < 2'-0")

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04/17/26

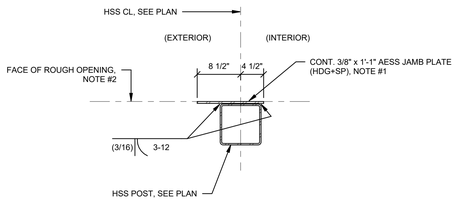
AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170

GMC # ACOL240010
ADC # 24457

TYPICAL CONCRETE DETAILS

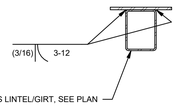
S6.02

4/20/2026 9:23:43 AM



KEYED NOTES:
1. EXTEND JAMB PLATE FROM FLANGE PLATE AT HEADER DOWN PAST BASE PLATE TO 1/2" FROM SURFACE OF BUILDING SLAB
2. IN "SIM" CONDITION, JAMB PLATE ORIENTATION TO BE MIRROR OPPOSITE

12 TYP. HSS JAMB PLATE
1" = 1'-0"



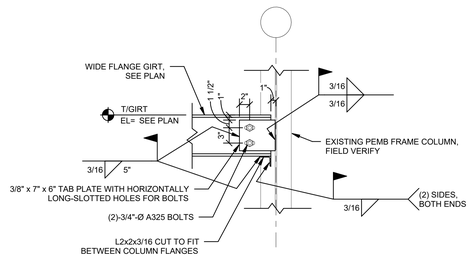
GENERAL NOTES:
A. WELD IS TYPICAL AT BOTTOM FLANGE PLATES AND JAMB PLATES AS OCCUR

11 TYP. LINTEL FLANGE PLATE WELD
1" = 1'-0"

BEAM VERTICLE SHEAR REACTION SCHEDULE	
NOMINAL STEEL BEAM SIZE	MINIMUM FACTORED REACTION (KIPS)
W8	18
W10	18
W12	30
W14	30
W16	50
W18	50
W21	75
W24	85
W27	105

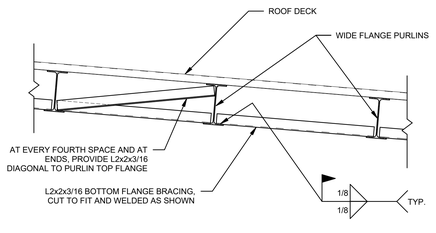
NOTES:
1. SHEAR CONNECTIONS TO BE DESIGNED FOR SCHEDULED VALUES UNLESS OTHERWISE NOTED ON PLAN

10 TYP. BEAM CONNECTION SCHEDULE
1" = 1'-0"

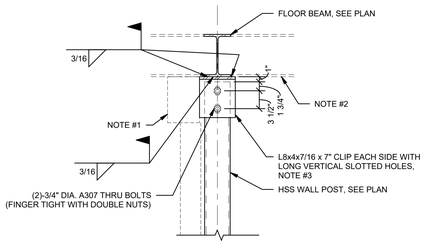


NOTES:
1. WHERE GIRT IS SHOWN ON PLAN AS HDG+SP, ALL CONNECTING HARDWARE SHALL RECEIVE THE SAME FINISH

9 TYP. WIDE FLANGE GIRT CONNECTION TO EXISTING PEMB COLUMN
1" = 1'-0"

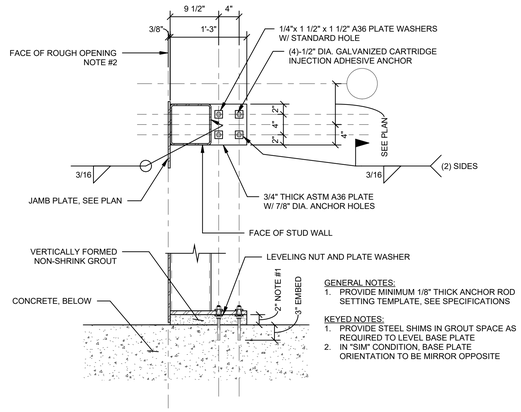


8 TYP. PURLIN BOTTOM FLANGE BRACING
1" = 1'-0"



KEYED NOTES:
1. EXTEND ANGLE WHERE WALL POST IS OFF CENTER FROM BEAM LINE
2. LINE OF PARALLEL BEAM AT ALTERNATE CONFIGURATION
3. AT ALTERNATE PARALLEL CONFIGURATION USE 3/8" PLATE WITH VERTICAL LONG SLOTTED HOLES

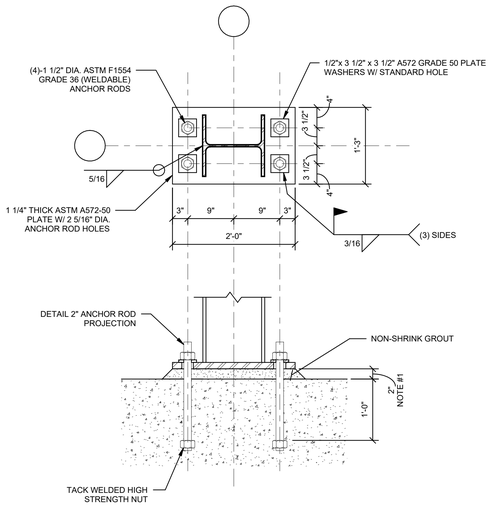
13 TYP. HSS EXTERIOR WALL POST HEAD DETAIL (INLINE CONNECTION)
1" = 1'-0"



GENERAL NOTES:
1. PROVIDE MINIMUM 1/8" THICK ANCHOR ROD SETTING TEMPLATE, SEE SPECIFICATIONS

KEYED NOTES:
1. PROVIDE STEEL SHIMS IN GROUT SPACE AS REQUIRED TO LEVEL BASE PLATE
2. IN "SIM" CONDITION, BASE PLATE ORIENTATION TO BE MIRROR OPPOSITE

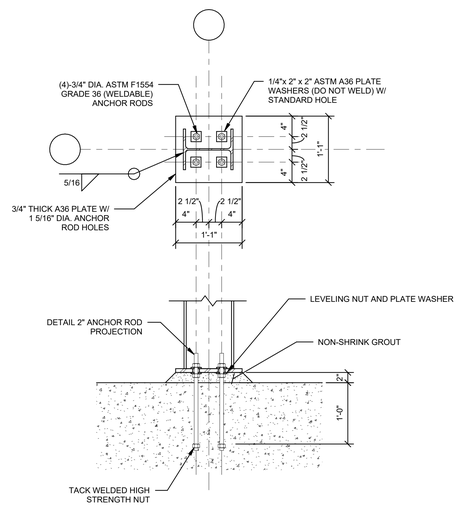
7 HSS BASE PLATE
1" = 1'-0"



GENERAL NOTES:
1. PROVIDE MINIMUM 1/8" THICK ANCHOR ROD SETTING TEMPLATE, SEE SPECIFICATIONS

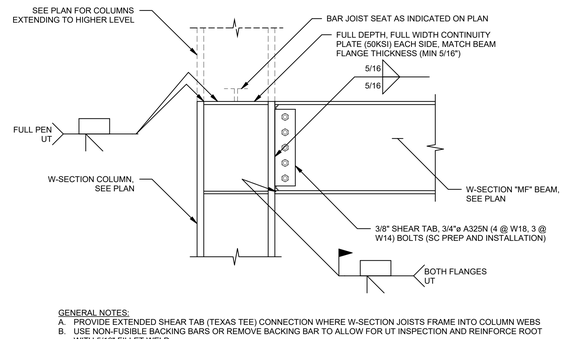
KEYED NOTES:
1. PROVIDE STEEL SHIMS IN GROUT SPACE AS REQUIRED TO LEVEL BASE PLATE

6 W12 BASE PLATE
1" = 1'-0"



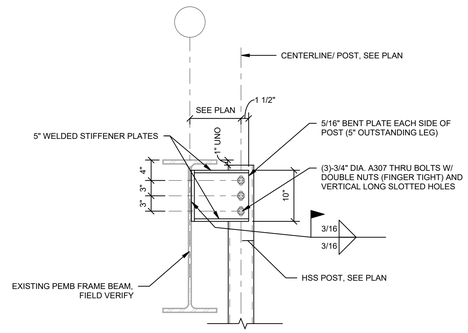
GENERAL NOTES:
1. PROVIDE MINIMUM 1/8" THICK ANCHOR ROD SETTING TEMPLATE, SEE SPECIFICATIONS

5 W10 BASE PLATE
1" = 1'-0"



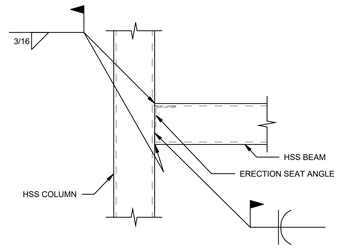
GENERAL NOTES:
A. PROVIDE EXTENDED SHEAR TAB (TEXAS TEE) CONNECTION WHERE W-SECTION JOISTS FRAME INTO COLUMN WEBS
B. USE NON-FUSIBLE BACKING BARS OR REMOVE BACKING BAR TO ALLOW FOR UT INSPECTION AND REINFORCE ROOT WITH 5/16" FILLET WELD

4 TYP. MOMENT CONNECTION (R=3)
1" = 1'-0"

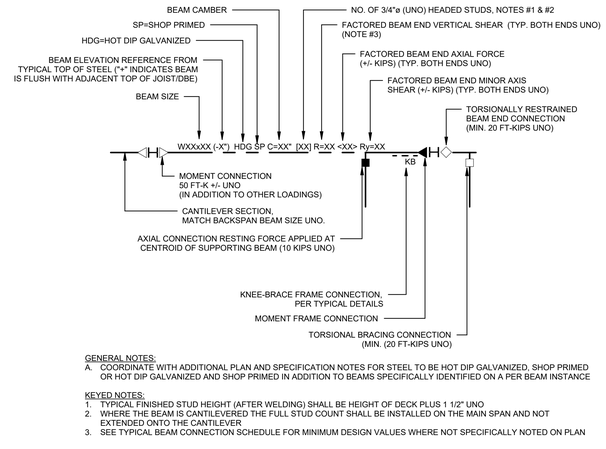


GENERAL NOTES:
A. PROVIDE STANDARD HOLES IN HSS POST

TYP. HSS EXTERIOR WALL POST HEAD DETAIL (BYPASS CONDITION AT EXISTING)
3 1" = 1'-0"



2 TYP. HSS BEAM TO HSS POST CONNECTION
1" = 1'-0"



GENERAL NOTES:
A. COORDINATE WITH ADDITIONAL PLAN AND SPECIFICATION NOTES FOR STEEL TO BE HOT DIP GALVANIZED, SHOP PRIMED OR HOT DIP GALVANIZED AND SHOP PRIMED IN ADDITION TO BEAMS SPECIFICALLY IDENTIFIED ON A PER BEAM INSTANCE

KEYED NOTES:
1. TYPICAL FINISHED STUD HEIGHT (AFTER WELDING) SHALL BE HEIGHT OF DECK PLUS 1 1/2" UNO
2. WHERE THE BEAM IS CANTILEVERED THE FULL STUD COUNT SHALL BE INSTALLED ON THE MAIN SPAN AND NOT EXTENDED ONTO THE CANTILEVER
3. SEE TYPICAL BEAM CONNECTION SCHEDULE FOR MINIMUM DESIGN VALUES WHERE NOT SPECIFICALLY NOTED ON PLAN

1 STEEL BEAM LEGEND
1/8" = 1'-0"

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04/17/26

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170

GMC # ACOL240010
ADC # 24457

TYPICAL STEEL DETAILS

S6.31

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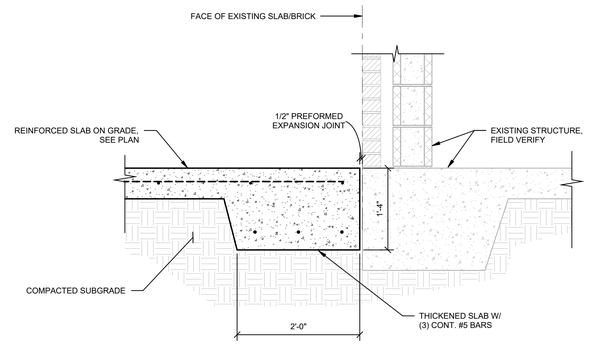
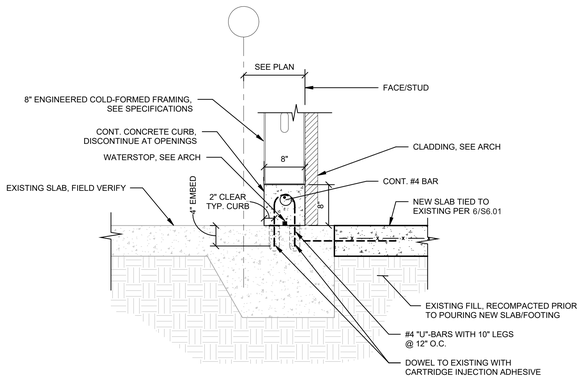
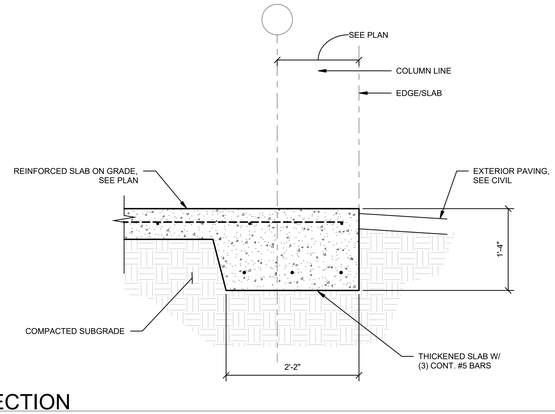


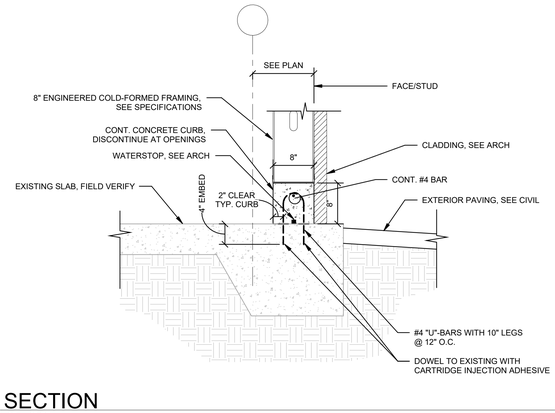
3 SECTION
1" = 1'-0"



2 SECTION
1" = 1'-0"



4 SECTION
1" = 1'-0"



1 SECTION
1" = 1'-0"

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SECTIONS AND DETAILS

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
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ADC # 24457

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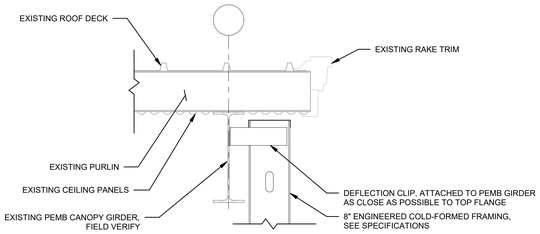
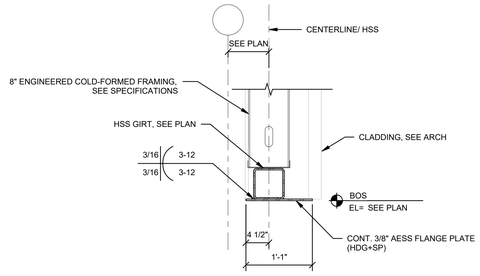
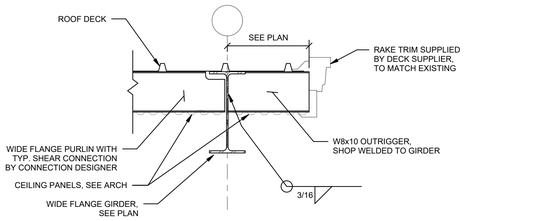


4 SECTION
1" = 1'-0"



GENERAL NOTES:
A. FLANGE PLATE TO BE SEAL WELDED (GRIND SMOOTH) TO JAMB PLATE AT BOTH ENDS

7 SECTION
1" = 1'-0"



3 SECTION
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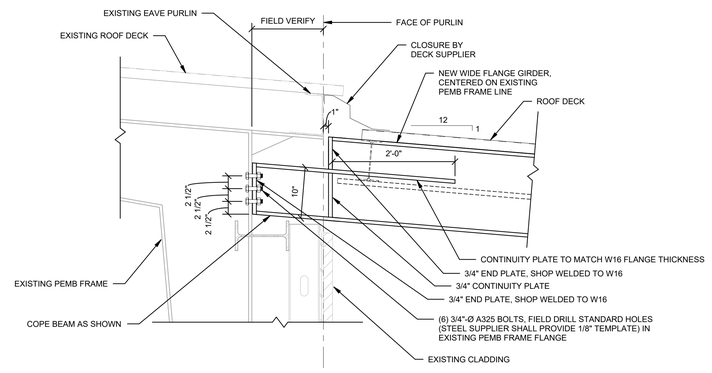
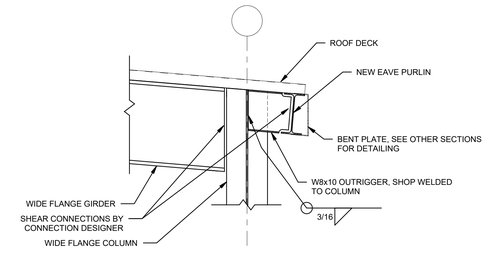


9 SECTION
1" = 1'-0"



6 SECTION
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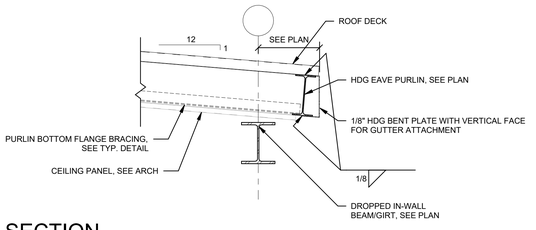

2 SECTION
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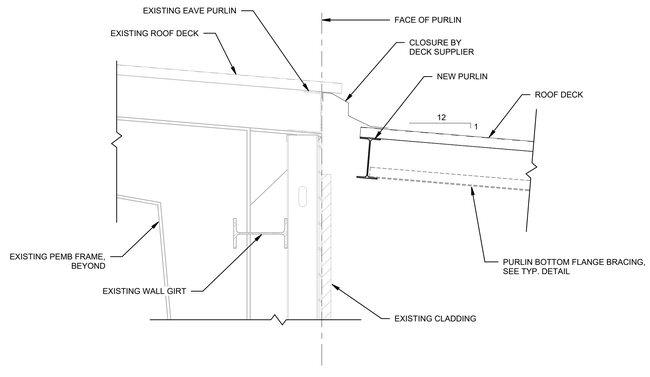
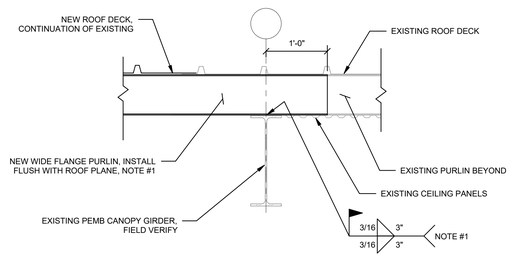
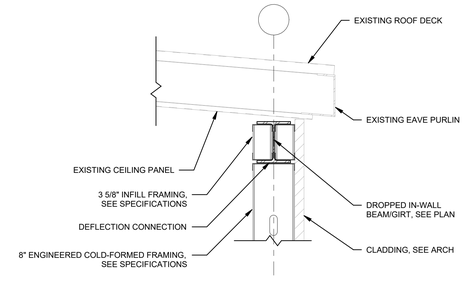


8 SECTION
1" = 1'-0"



KEYED NOTES:
1. SUPPLY (2) 1/16" x 5" SQUARE SHIM PLATES AT PURLIN BEARING. CONTRACTOR TO ENSURE FULL BEARING.

5 SECTION
1" = 1'-0"



1 SECTION
1" = 1'-0"

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04/17/26

SOUTH CAROLINA — No. 27454 — PROFESSIONAL ENGINEER — WILLIAM J. HOLLAND
ADC ENGINEERING — NO. 00253 — CERTIFICATE OF AUTHORIZATION — SOUTH CAROLINA — U.S.A. — NO. LVC000253

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170

GMC # ACOL240010
ADC # 24457

SECTIONS AND DETAILS

S7.21

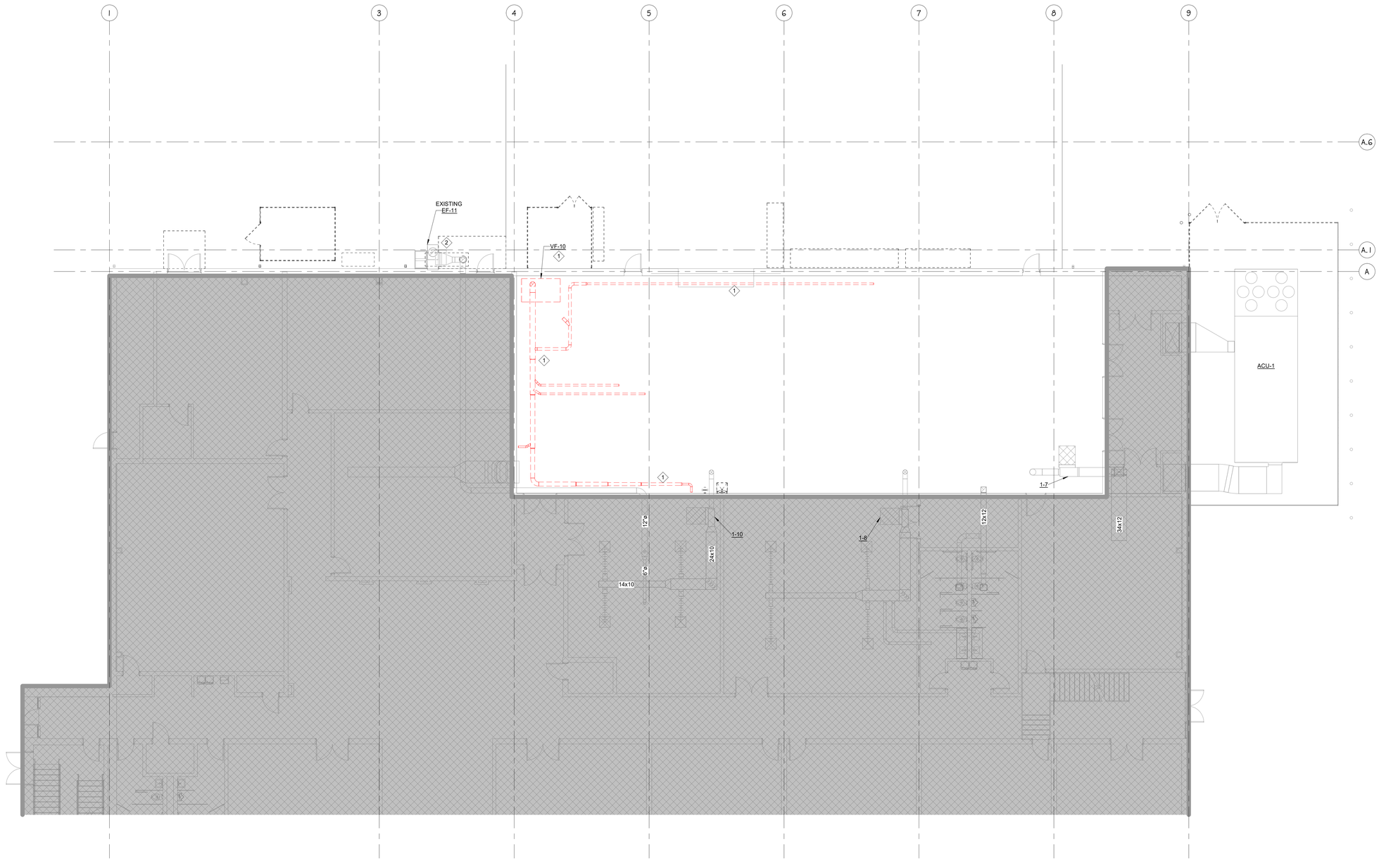
4/20/2026 9:23:46 AM

GENERAL DEMOLITION NOTES

1. DRAWINGS SHOW GENERAL INTENT OF DEMOLITION. QUANTITIES, LOCATIONS, SIZES, AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF SYSTEM INSTALLED AND DO NOT NECESSARILY REPRESENT EXACT CONDITIONS. CONTRACTOR SHALL FIELD VERY BEFORE BIDDING.
2. DEMOLITION OF EQUIPMENT, SYSTEMS, AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PADS, HANGERS, INSULATION, CONTROLS, STARTERS, ACCESSORIES, AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM.
3. PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES AND FINISHES. PATCHES SHALL MATCH EXISTING FIRE RATINGS, STRUCTURE, AND FINISHES.
4. ALL OPENINGS CREATED BY THE ABANDONMENT OR REMOVAL OF EXISTING SYSTEM SHALL BE PATCHED.
5. ALL WALLS, ROOFS, SLABS, STRUCTURES AND FINISHES WHERE FINISH IS IRREGULAR DUE TO THE REMOVAL OF SYSTEMS, SUPPORTS, PADS, ACCESSORIES AND APPURTENANCES SHALL BE PATCHED.
6. ALL FINISHES SHALL MATCH EXISTING. WHEN FINISH OBVIOUSLY DOES NOT MATCH EXISTING, SUCH AS SHADE OF PAINT, AGE OF FINISH, ETC. THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM 45 DEGREE.
7. REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHEREVER PRACTICAL. IF NOT, SYSTEM (IE: PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 1" BELOW SURFACE.

(#) DEMOLITION PLAN KEYNOTES

1. DEMOLISH EXISTING DUST COLLECTION SYSTEM INCLUDING DUCTWORK, COLLECTOR AND ALL APPURTENANCES.
2. MEASURE EXISTING WELDING EXHAUST AIRFLOW PRIOR TO EXTENDING STACK.



1 LEVEL 1 - HVAC DEMOLITION PLAN

SCALE: 1/8" = 1'-0"
PLAN NORTH
TRUE NORTH

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Buford Goff & Associates, Inc.
Engineers & Planners

ISSUE	DATE
CD SET	04/17/2026

DRAWN BY: JEB
CHECKED BY: JEB

SOUTH CAROLINA
BUFORD GOFF & ASSOCIATES, INC.
No. 000022
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 26527
4/17/2026
JONATHAN BURRETT

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG
GMC ACOL240010

LEVEL 1 - HVAC DEMOLITION PLAN

M-101

4/17/2026 5:10:34 PM TEMPLATE VERSION: 2022.1

GENERAL RENOVATION NOTES

1. ALL INDOOR EXPOSED DUCTWORK, EXCEPT THE DUST COLLECTION DUCTWORK, SHALL BE DUAL WALL WITH PAINT GRIP FINISH. FIELD PAINT TO COLOR CHOSEN BY ARCHITECT.
2. ALL EXTERIOR DUCTWORK, EXCEPT THE DUST COLLECTION DUCTWORK, SHALL BE DUAL WALL WITH A STAINLESS STEEL OUTER JACKET.
3. ALL DUST COLLECTION DUCTWORK AND WELDING EXHAUST DUCTWORK SHALL BE NORDFAB QUICK-FIT CLAMP-TOGETHER, GALVANIZED.
4. PROVIDE CLEANOUTS AT EACH SPRINKLER HEAD FOR CLEANING. SPRINKLERS TO BE LOCATED IN THE DUST COLLECITON DUCTWORK 10" DIAMETER AND GREATER.
5. DUST COLLECTION BRANCH ENTRIES SHALL BE 30 DEG; TRANSITIONS SHALL BE 15 DEG; ELBOWS SHALL BE 2D CENTERLINE RADIUS.
6. SECURE ALL EQUIPMENT AND COMPONENTS PER THE SEISMIC ENGINEER'S RECOMMENDATIONS TO MEET THE DESIGN SEISMIC AND WIND LOADS.
7. CONTRACTOR SHALL VERIFY THE INTEGRITY OF ALL EXISTING STRUCTURAL COMPONENTS BEFORE INSTALLING EQUIPMENT. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY UNSAFE CONDITIONS.

(#) RENOVATION PLAN KEYNOTES

1. RELOCATE EXISTING EF-11 TO NEW LOCATION. ROUTE EXHAUST DUCT TO NEW LOCATION. REBALANCE EXISTING FAN TO EXISTING CFM. REPLACE EXISTING FAN SHEAVE AND MOTOR AND REPLACE WITH NEW 1-1/2 HP MOTOR IF REQUIRED.
2. SPACE GRILLES EQUALLY.
3. PROVIDE ONE INCH OF ELASTOMERIC INSULATION AND ALUMINUM JACKET TO COVER DUST COLLECTION EXHAUST DUCTWORK ROUTED OUTSIDE.
4. PROVIDE RIGID POLY-ISO INSULATION WITH ALUMINUM JACKET FOR EXTERIOR SUPPLY AND RETURN DUCTWORK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. PROVIDE EXPLOSION ISOLATION VALVE ON THE EXHAUST AND RETURN AIR.
6. PROVIDE FLEXIBLE DROP ON END OF DUCT DOWN TO EQUIPMENT. LOCATE BLAST GATE AT 5' FOR CONTROL.
7. ROUTE CONDENSATE DRAIN LINE DOWN TO DRYWELL. SEE DETAIL.
8. PROVIDE SPARK DETECTION AND SUPPRESSION SYSTEM (CLARKE'S PYROGUARD CXC-2 OR APPROVED EQUAL). PROVIDE A MINIMUM OF TWO DETECTORS (CLARKE'S LP SENSOR OR APPROVED EQUAL) WITH EXTINGUISHMENT UNITS INCLUDING SOLENOID VALVE AND FLOW PRESSURE SWITCH AT EACH VALVE SIZED PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANIFOLD AND NOZZLES WITH FLUSH MOUNTING ADAPTERS PER THE MANUFACTURER'S REQUIRED SPACING. SEE FIRE ALARM DRAWINGS FOR CONNECTION OF THE SPARK DETECTION CONTROL PANEL TO THE FIRE ALARM SYSTEM. SEE FIRE PROTECTION DRAWINGS FOR PIPING CONNECTIONS TO THE VALVES.
9. SEE MANUFACTURER RECOMMENDATIONS FOR SENSOR INSTALLATION
10. DUST COLLECTORS TO SHUT DOWN ON FIRE ALARM. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
11. SLOPE DUST COLLECTOR EXHAUST DUCT 1/8" - 1/4" PER FOOT TOWARD THE DUST COLLECTOR. HANGER DESIGN TO INCLUDE THE WEIGHT OF WATER AS WELL AS THE TYPICAL DUCT WEIGHT. ASSUME AN ADDITIONAL 30 LB/FT IN ADDITION TO THE DUCT WEIGHT. MAXIMUM HANGER SPACING TO BE NO GREATER THAN 10 FOOT O.C. FOR THE MAIN RUNS.
12. PROVIDE GASKETED ACCESS DOOR TO ALLOW FOR CLEANING. ACCESS DOOR TO BE LOCATED ON THE SIDE OF THE DUCT.
13. COORDINATE CONTROL PANEL LOCATION WITH DUST COLLECTOR SERVED. PROVIDE ALL CONTROL WIRING BETWEEN PANEL AND UNIT.
14. PROVIDE UNISTRUT DUCT SUPPORT FRAME TO SUPPORT THE DUCT AND SAFETY DEVICES.
15. OUTSIDE AIR INTAKE. LOCATE A MINIMUM OF 10 FEET AWAY FROM ANY EXHAUST SOURCE.
16. EXTEND STACK UP THROUGH CANOPY ROOF. COORDINATE FLASHING WITH CANOPY MANUFACTURER.

PLAN NORTH

TRUE NORTH

LEVEL 1 - HVAC RENOVATION PLAN

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

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SOUTH CAROLINA
BUFORD GOFF & ASSOCIATES, INC.
No. 000022
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 26527
4/17/2026
JONATHAN BURKETT

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG
GMC ACOL240010

LEVEL 1 - HVAC RENOVATION PLAN

M-201

4/17/2026 5:10:02 PM TEMPLATE VERSION: 2022.1

SIDEWALL AIR DISTRIBUTION SCHEDULE (a)(b)

SYMBOL	CFM (c)	SIZE	LOUVER BLADES: FIXED HORIZONTAL	FIXED VERTICAL	SINGLE DEFLECTION VERTICAL (f)	SINGLE DEFLECTION HORIONZTAL (f)	DOUBLE DEFLECTION (f)	ANGLE	SPACING	NC (d)	PD (e)	REMARKS
1 CFM	285	10x8	-	-	-	-	x	45	3/4	<20	<0.1	2 3 4
2 CFM	10150	60x30	-	-	-	-	x	45	3/4	<20	<0.1	2 3 4
3 CFM	6400	28x40	-	-	-	-	x	45	3/4	<20	<0.1	2 3 4

(a) LOUVER BLADE TYPE WITH OPPOSED BLADE DAMPER

(b) GRILLES SHALL BE:
1. SUPPLY: PRICE 500 / 600 SERIES
2. RETURN / EXHAUST: PRICE 500 / 600 SERIES
3. FILTER RETURN GRILLE: PRICE
4. FINISH: WHITE

(c) CFM IS FOR GENERAL INFORMATION ONLY. SOME GRILLES MAY BE SIZED LARGER

(d) NC @ 10db ROOM ATTENUATION (RE: 10^{-12} WATTS)

(e) TOTAL PRESSURE (IN.WG)

(f) ADJUSTABLE BLADES

1. 1" CURVED FRAME
2. 1" FLAT FRAME
3. DUCT MOUNTED GRILLES SHALL HAVE DUCT COLLAR SAME SIZE AS GRILLE (INCLUDING FLANGE)
4. ALUMINUM

S3400C

HEAVY DUTY AIR DISTRIBUTION SCHEDULE (a)(b)

SYMBOL	CFM (c)	CONN SIZE (WxH) (d)(g)	RUNOUT	NC (e)	PD (f)	REMARKS
1 CFM	3,000	30x30	-	<35	<0.1	1 2

(a) GRILLES SHALL BE HEAVY, 14 GAUGE, STEEL CONSTRUCTION WITH 3/4" BLADE SPACING 0 DEGREES DEFLECTION.

(b) GRILLES SHALL BE PRICE SERIES 95.

(c) CFM IS FOR GENERAL INFORMATION ONLY. SOME GRILLES MAY BE SIZED SMALLER / LARGER.

(d) DUCT RUNOUT SIZE IN INCHES, IF NO OTHER RUNOUT SIZE INDICATED ON PLANS OR SCHEDULE. TRANSITION TO NECK SIZE AS REQUIRED.

(e) NC @ 10db ROOM ATTENUATION (RE: 10^{-12} WATTS).

(f) TOTAL PRESSURE (IN. WG).

(g) VERIFY DIMENSIONS ORIENTATION (W vs. H) BEFORE ORDERING.

1. SINGLE PIECE GRILLE
2. COLOR TO BE DETERMINED BY ARCHITECT

S3400E

MECHANICAL SYMBOL LEGEND

- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- RETURN DUCT TURNED TO
- SUPPLY DUCT TURNED AWAY
- HAZARDOUS EXHAUST DUCT (LABORATORY & DUST COLLECTION)
- DUAL WALL DUCT
- EQUIPMENT LOCATED ON ROOF
- 10x8 — INSIDE DUCT DIMENSION
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER
- SD — SMOKE DAMPER
- FSD — COMBINATION FIRE / SMOKE DAMPER
- J — 120V CONTROL POWER IN J-BOX
- M — MOTOR OPERATED CONTROL DAMPER
- CR — CONCEALED DAMPER REGULATOR MECHANISM
- AUDIBLE AND VISIBLE ALARM STATUS INDICATORS
- 10"ø — 10" ROUND DUCT (INSIDE DIM)
- PIPE END RISES UP
- PIPE END DROPS DN
- PIPE TEE RISES UP
- PIPE TEE DROPS DN
- S / D — COMBINATION STARTER / DISCONNECT PANEL
- BACS — BUILDING AUTOMATION CONTROL SYSTEM PANEL
- GAS — GAS MONITORING SYSTEM DETECTOR
- FPS — FLAT PLATE TEMPERATURE SENSOR
- MPS — MANUAL PULL STATION (FIRE SUPPRESSION)
- S — WALL SWITCH
- T — DDC THERMOSTAT / TEMPERATURE SENSOR
- H — DDC HUMIDISTAT / HUMIDITY SENSOR
- T / H — COMBINATION DDC THERMOSTAT / HUMIDISTAT
- LOS — LIGHTING OVERRIDE SWITCH
- LVT — LINE VOLTAGE THERMOSTAT
- FLEXIBLE DUCT
- DD — DUCT SMOKE DETECTOR
- AD — ACCESS DOOR
- CFM — AIR DISTRIBUTION (OTHER SYMBOLS SIM)
- # — POUNDS (OR NUMBER)

HIGH CAPACITY DRUM LOUVER SCHEDULE (a)

SYMBOL	CFM (b)	SIZE (HxW)	THROW	NC (c)	PD (d)	REMARKS
1 CFM	430	6X18	24/30/43	<20	<0.1	1 2 3 4 5

(a) GRILLES SHALL BE:
1. SUPPLY: PRICE HCD
2. FINISH: PAINT GRIP FINISH

(b) CFM IS FOR GENERAL INFORMATION ONLY. SOME GRILLES MAY BE SIZED SMALLER / LARGER

(c) NC @ 10db ROOM ATTENUATION (RE: 10^{-12} WATTS)

(d) TOTAL PRESSURE (IN. WG)

1. SPIRAL DUCT FRAME
2. FIELD PAINTED GRILLE TO MATCH DUCT
3. SPLIT BLADE
4. ALUMINUM
5. HEAVY DUTY STEEL OPPOSED DAMPER

MECHANICAL ABBREVIATIONS

ABV	ABOVE	IN	INCHES
AF-1	AFTER FILTER SYSTEM NO.1	MAU-1	MAKEUP AIR UNIT NO.1
AFF	ABOVE FINISHED FLOOR	MOD	MOTOR OPERATED DAMPER
AFMS-1	AIRFLOW MEASURING STATION NO.1	MVD	MANUAL VOLUME DAMPER
BACS	BUILDING AUTOMATION CONTROL SYSTEM	NC	NORMALLY CLOSED
BHP	BRAKE HORSE POWER	NO	NORMALLY OPEN
BOD	BOTTOM OF DUCT	NPBI-1	NEEDLEPOINT BIPOLAR IONIZATION SYSTEM NO.1
BOP	BOTTOM OF PIPE	OC	ON CENTER
CAV	CONSTANT AIR VOLUME	ODAC-1	OUTDOOR AIR CONDITIONER NO.1
CDC-1	CARPENTRY DUST COLLECTOR SYSTEM NO.1	ODHP-1	OUTDOOR HEAT PUMP NO.1
CEF-1	CEILING EXHAUST FAN NO.1	PD	PRESSURE DROP
CFM	CUBIC FEET PER MINUTE	PFD	PIPE TO FLOOR DRAIN
CLG	CEILING	PH	PHASE
CO	CLEAN OUT	R	REFRIGERANT LINES
CR	CONCEALED REGULATOR	REF-1	ROOFTOP EXHAUST FAN NO.1
CUH-1	CEILING UNIT HEATER NO.1	RH-1	RELIEF HOOD NO.1
D	DRAIN	RTU-1	ROOFTOP UNIT NO.1
EFF	EFFICIENCY	SEF-1	SUSPENDED EXHAUST FAN NO.1
ELEC	ELECTRICAL	SF	SQUARE FOOT
ESP	EXTERNAL STATIC PRESSURE	SP	STATIC PRESSURE SENSOR
EUH-1	ELECTRIC UNIT HEATER NO.1	SPAC-1	SINGLE PACKAGE AIR CONDITIONER NO.1
EWH-1	ELECTRIC WALL HEATER NO.1	SPHP-1	SINGLE PACKAGE HEAT PUMP NO.1
EXT	EXTERNAL	SSAC-1	SPLIT SYSTEM AIR CONDITIONER NO.1
FPS	FEET PER SECOND	SSHP-1	SPLIT SYSTEM HEAT PUMP NO.1
FT	FEET	T1-2	TERMINAL UNIT NO.2, SYSTEM NO.1
FLR	FLOOR	TD	TRANSFER DUCT
GEF-1	GREASE EXHAUST FAN NO.1	TF-1	TRANSFER FAN NO.1
GEV-1	GENERAL EXHAUST VALVE NO.1	UNO	UNLESS NOTED OTHERWISE
HEV-1	HOOD EXHAUST VALVE NO.1	VAV	VARIABLE AIR VOLUME
HP	HORSE POWER	VFD	VARIABLE FREQUENCY DRIVE
IDAC-1	INDOOR AIR CONDITIONER NO.1	VEL	VELOCITY
IDHP-1	INDOOR HEAT PUMP NO.1	VOLT	VOLTAGE
IH-1	INTAKE HOOD NO.1	WDC-1	WELDING DUST COLLECTOR SYSTEM NO.1

MECHANICAL GENERAL NOTES

1. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, DIFFUSERS, ETC.
2. PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH FLOORS, ROOFS, AND PARTITIONS.
3. LOCATE ALL THERMOSTATS, HUMIDISTATS, SWITCHES, AND SIMILAR CONTROL DEVICES 48" (TO TOP OF DEVICE) AFF UNO.
4. PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. HANGERS SHALL BE ADJACENT TO ELBOWS AND AT EQUIPMENT TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.
5. PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE.
6. CORRECT SETTINGS ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.
7. LOW LOSS 45 DEGREE TAKEOFFS SHALL BE USED ON ALL DUCTED BRANCHES.
8. PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH EXTERIOR WALLS AND ROOFS SHALL BE FLASHED AND COUNTERFLASHED AND SEALED AIR AND WATER TIGHT.
9. PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, HEATERS, AIR VOLUME CONTROLLERS, FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES.
10. DUCT SIZES INDICATED ARE CLEAR INSIDE DIMENSIONS.
11. OPENINGS IN ROOF FOR DUCT, PIPING, EQUIPMENT, OR ACCESSORIES WITHIN 5'-0" OF BUILDING FIRE WALL SHALL BE PROHIBITED.
12. ALL SYSTEMS SHALL MEET THE PROJECT'S SEISMIC DESIGN AND WIND LOAD RESTRAINT REQUIREMENTS.
13. UNTAGGED PLENUM RETURN AIR GRILLES WITH SOUND BOOTS SHALL BE LOUVERED TYPE 7L. SEE PLENUM RETURN GRILLE BOOT DETAIL.
14. WHERE MANUAL BALANCE DAMPERS ARE LOCATED ABOVE INACCESSIBLE CEILINGS, CONCEALED DAMPER REGULATOR MECHANISMS SHALL BE PROVIDED. SEE CONCEALED DAMPER REGULATOR DETAIL.

BAGHOUSE DUST COLLECTOR SYSTEM SCHEDULE

DUST COLLECTOR SYSTEM #	COLLECTION MATERIALS	AIRFLOW: CFM	TSP (a)	ESP (a)	MOTORS: #	HP	BHP	VOLTAGE	FILTRATION: TYPE	NO	SIZE	LISTED EFFICIENCY (c)	ON / OFF CONTROL DEVICE	MAX OVERALL DIMENSIONS (b): LENGTH	WIDTH	HEIGHT	MAX WEIGHT (#)	MANUFACTURER AND MODEL	REMARKS
DC-1	CARPENTRY DUST	6400	14	8	1	30	21.2	460/3	FABRIC BAG	40	96"	99.9%	VFD / DISCONNECT	63	71	307	17,500	PROVENT SPJ-40-X4T8	1 2 3 4 5 6 7 8 9 10 11 12 13
DC-2	CARPENTRY DUST	10,150	14	8	1	40	29.2	460/3	FABRIC BAG	64	96"	99.9%	VFD / DISCONNECT	89	71	323	17,500	PROVENT SPJ-64-X4T8	1 2 3 4 5 6 7 8 9 10 11 12 13

(a) INCHES WG; (b) INCHES; (c) @ 10 MICRONS

1. 12 GAUGE WELDED STEEL VERTICAL INSTALLATION
2. SUPPORT STANDS WITH COLLECTION DRUMS UNDERNEATH
3. DIRECT DRIVE, BACKWARD INCLINED FAN
4. WEATHERPROOF ENCLOSURE
5. NFPA EXPLOSION VENT PANEL
6. TRANSITIONS AND FLEXIBLE CONNECTIONS
7. GROUND MOUNTED FAN
8. INLET AND OUTLET DUCT COLLARS
9. FACTORY VFD / DISCONNECT MOTOR CONTROL KIT
10. DUCT MOUNTED PAINTED CARBON STEEL NFPA EXPLOSION ISOLATION VALVES
11. EXHAUST SILENCER
12. ROTARY AIRLOCK
13. FAN DRAIN WITH PLUG

CYCLONE DUST COLLECTOR SYSTEM SCHEDULE (ALTERNATE)

DUST COLLECTOR SYSTEM #	COLLECTION MATERIALS	AIRFLOW: CFM	TSP (a)	ESP (a)	MOTORS: #	HP	BHP	VOLTAGE	AFTER FILTER: TYPE	NO	SIZE	LISTED EFFICIENCY (c)	ON / OFF CONTROL DEVICE	MAX OVERALL DIMENSIONS (b): LENGTH	WIDTH	HEIGHT	MAX WEIGHT (#)	MANUFACTURER AND MODEL	REMARKS
DC-1	CARPENTRY DUST	6400	14	8	1	25	-	460/3	AF24-PHH	-	-	99.9%	VFD / DISCONNECT	47	47	175	-	TORNADO TXE-330	1 2 3 4 5 6 7 8 9 10 11 12 13
DC-2	CARPENTRY DUST	10,150	14	8	1	40	-	460/3	AF36-PHH	-	-	99.9%	VFD / DISCONNECT	56	56	208	-	TORNADO TXE-510	1 2 3 4 5 6 7 8 9 10 11 12 13

(a) INCHES WG; (b) INCHES; (c) @ 10 MICRONS

1. 12 GAUGE WELDED STEEL VERTICAL INSTALLATION
2. 55 GALLON COLLECTION DRUMS
3. DIRECT DRIVE, BACKWARD INCLINED FAN
4. WEATHERPROOF ENCLOSURE
5. NFPA EXPLOSION VENT PANEL
6. TRANSITIONS AND FLEXIBLE CONNECTIONS
7. VORTEK BREAKER
8. INLET AND OUTLET DUCT COLLARS
9. FACTORY VFD / DISCONNECT MOTOR CONTROL KIT
10. DUCT MOUNTED PAINTED CARBON STEEL NFPA EXPLOSION ISOLATION VALVES
11. EXHAUST SILENCER
12. ROTARY AIRLOCK
13. SUPPORT STAND WITH EXTENDED LEGS (AIRLOCK CLEARANCE)

SEISMIC AND WIND DESIGN CRITERIA

RISK CATEGORY: III
SITE CLASS: D
SEISMIC DESIGN CATEGORY: C
BASIC DESIGN WIND SPEED: 122 MPH

SINGLE PACKAGE HEAT PUMP SCHEDULE

HEAT PUMP #	SUPPLY FAN: ESP * (a)	CFM MAX	CFM MIN	CFM OA	MOTORS: CONDENSER NO	CONDENSER FLA	EVAPORATOR BHP	EVAPORATOR HP	COMPRESSORS: NO	RLA (c)	ELECTRIC HEAT: STAGES	KW	EAT	LAT	DX COIL COOLING CAPACITY: MBH (NET) TOTAL	MBH (NET) SENSIBLE	OUTDOOR DB T	ENTERING AIR DB	ENTERING AIR WB	LEAVING AIR DB	LEAVING AIR WB	EER (b)	SEER (b)	DX COIL HEATING CAPACITY: EAT (e)	@ 17 F MBH	@ 17 F COP	@ 47 F MBH	@ 47 F COP	HSPF (b)	MAX WEIGHT (#)	ELECTRICAL: MCA	MOCP	VOLT / PH	MANUFACTURER AND MODEL	REMARKS
SPHP-1	1.5	3000	2000	400	1	3.0	1.58	3.0	2	13.7/5.9	2	27	61.6	89.4	106.9	75.6	95	95.0	80.0	52.5	52.4	11.0	-	61.6	-	2.25	110.4	3.4	-	1200	72	80	460/3	TRANE WSK120	2 3 4 5 6 7 8 9 10 11 12 13

* INCLUDES DUCT, GRILLES, AND LOADED FILTERS; (a) INCHES WG; (b) @ARI CONDITIONS;

1. ROOF CURB
2. HORIZONTAL DISCHARGE
3. SINGLE ZONE VARIABLE AIR VOLUME
4. DIRECT DRIVE PLENUM FANS WITH VFDS OR EC MOTORS WITH LOW VOLTAGE DC SIGNAL
5. AT LEAST ONE VARIABLE SPEED COMPRESSOR
6. NON-FUSED DISCONNECT SWITCH
7. SINGLE POINT 460/3 POWER CONNECTION
8. UNIT POWERED 120/1 GFCI RECEPTACLE
9. MODULATING, LOW LEAK OA DAMPER
10. NEEDLEPOINT BIPOLAR IONIZATION
11. LOW AMBIENT CONTROLS TO 25 DEG F
12. MODULATING HOT GAS REHEAT, 72 DEG F LAT MIN
13. 2" MERV 13 PRE-FILTERS

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HVAC SCHEDULES

M-400

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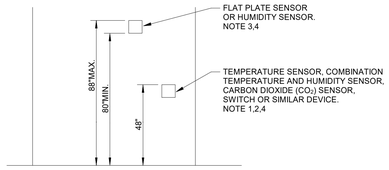
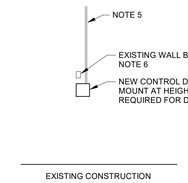
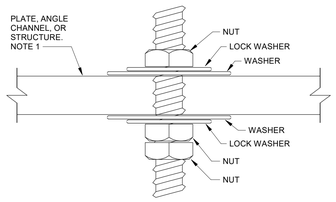




NOTES:

1. DEVICES THAT REQUIRE ACCESS BY BUILDING OCCUPANTS OTHER THAN MAINTENANCE PERSONNEL.
2. 44" TO TOP OF DEVICE WHEN OBSTACLE (SHELVING, COUNTER, ETC.) IN FRONT OF DEVICE.
3. DEVICES THAT DO NOT REQUIRE ACCESS BY BUILDING OCCUPANTS OTHER THAN MAINTENANCE PERSONNEL.
4. HEIGHT SHALL BE AS INDICATED UNLESS A DEVICE IS SPECIFICALLY REQUIRED TO BE LOCATED AT ANOTHER HEIGHT TO PERFORM ITS INTENDED FUNCTION.
5. PROVIDE WIRE MOLD WHERE PERMITTED ON EXISTING WALL WHERE CONTROLS CANNOT BE INSTALLED IN THE WALL.
6. PROVIDE OVERSIZED STAINLESS STEEL COVER PLATE IF BOX IS NOT REUSED.

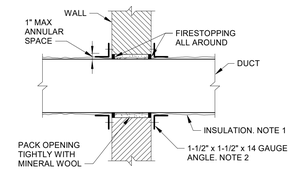
DEVICE MOUNTING HEIGHT DETAIL
3714 NOT TO SCALE 02/18



NOTES:

1. THIS DETAIL INDICATES A METHOD OF ATTACHING THREADED RODS, BOLTS, OR SIMILARLY CONSTRUCTED COMPONENTS TO ANOTHER COMPONENT (I.E. ANGLE, CHANNEL, PLATE, STRUCTURE, ETC.). THIS ATTACHMENT METHOD MAY NOT BE SUITABLE IN ALL CASES BUT SHALL BE REQUIRED WHERE PRACTICAL. ALTERNATE METHODS, WHEN PRESENTED TO THE ENGINEER, MAY BE CONSIDERED.
2. OTHER MORE SPECIFIC METHODS OF ATTACHMENT, SUCH AS SEISMIC ATTACHMENTS, SHALL APPLY WHERE SPECIFICALLY INDICATED.

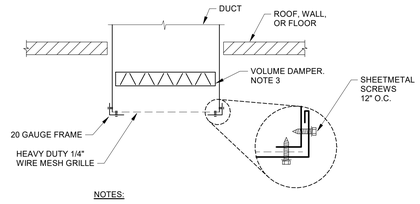
ATTACHMENT TO THREADED BOLTS AND RODS DETAIL
3402 NOT TO SCALE 02/13



NOTES:

1. BLANKET INSULATION, WHERE SPECIFIED, SHALL RUN CONTINUOUSLY THROUGH THE WALL.
2. ATTACH TO WALL 12" O.C. (MIN 2 PER SIDE). ANGLE SHALL OVERLAP WALL A MINIMUM OF 1-1/2".

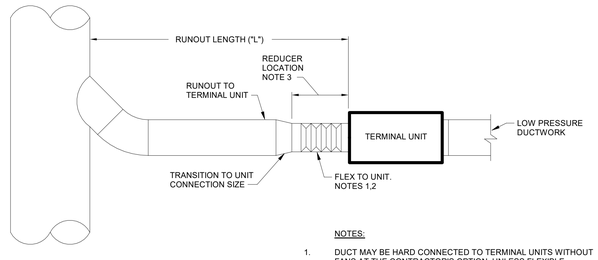
DUCT THROUGH NON-RATED WALL DETAIL
3041A NOT TO SCALE 11/19



NOTES:

1. PROVIDE ADDITIONAL BRACING ON GRILLES GREATER THAN 24".
2. SUBMIT SHOP DRAWINGS.
3. VOLUME DAMPER MAY BE OMITTED WHERE FAN SYSTEM HAS A SINGLE OUTLET.

WIRE GRILLE DETAIL

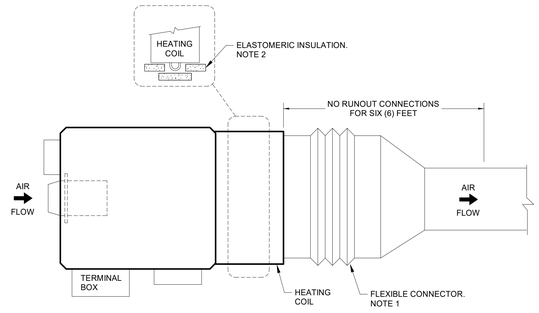


RUNOUT TO TERMINAL UNIT TABLE	
LENGTH	RUNOUT DUCT DIAMETER
L < 6 FT	SAME AS TERMINAL UNIT CONNECTION
6 FT < L < 12 FT	TERMINAL UNIT CONNECTION PLUS 2" DIA
L > 12 FT	TERMINAL UNIT CONNECTION PLUS 4" DIA
RUNOUT w/DAMPER	TERMINAL UNIT CONNECTION PLUS 4" DIA

NOTES:

1. DUCT MAY BE HARD CONNECTED TO TERMINAL UNITS WITHOUT FANS AT THE CONTRACTOR'S OPTION, UNLESS FLEXIBLE CONNECTOR IS REQUIRED BY THE SEISMIC DESIGN.
2. MAXIMUM OFFSET OF 15 DEGREES IN FLEX TO CONNECT TO THE TERMINAL UNIT.
3. REDUCER TO BE LOCATED 18" FROM THE UNIT ON UNIT CONNECTION SIZES UP TO 6". REDUCER TO BE LOCATED 36" FROM THE UNIT ON ALL LARGER SIZES.
4. TABLE SHALL ONLY BE USED WHEN THE DUCT SIZE IS NOT INDICATED ON THE SCHEDULES OF FLOOR PLANS.

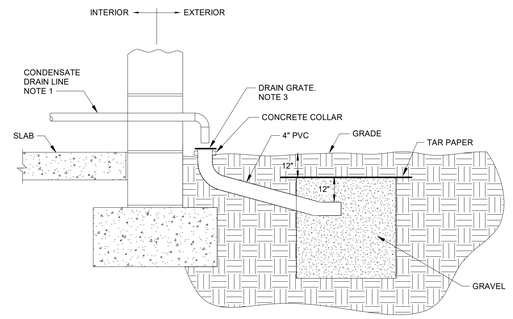
DUCT RUNOUT TO TERMINAL UNIT DETAIL
3067 NOT TO SCALE 05/10



NOTES:

1. FLEXIBLE CONNECTOR MAY BE OMITTED AT CONTRACTOR'S OPTION UNLESS REQUIRED BY SEISMIC DESIGN.
2. INSULATE ALL AROUND THE HOT WATER HEATING COIL.
3. WHERE LINER IS SPECIFIED FOR TERMINAL UNITS WITH ELECTRIC HEAT, IT SHALL BEGIN 12" FROM THE HEATER. IN ADDITION TO ANY INSULATION THAT IS SPECIFIED, THE FIRST 24" FROM THE UNIT SHALL HAVE DUCT WRAP.

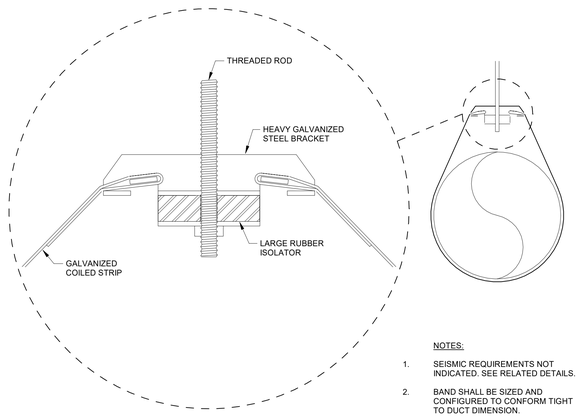
SHUT-OFF AIR TERMINAL UNIT DETAIL
3019B NOT TO SCALE 05/10



NOTES:

1. SEE PIPE THROUGH WALL DETAILS.
2. DRYWELL SHALL BE (2)(3)(4) FEET CUBED.
3. INSTALL GRATE ON GRADE.

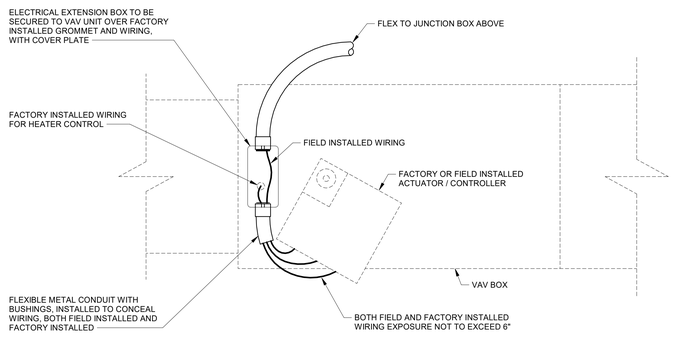
DRYWELL DETAIL - TYPE 1
3184A NOT TO SCALE 04/18



NOTES:

1. SEISMIC REQUIREMENTS NOT INDICATED. SEE RELATED DETAILS.
2. BAND SHALL BE SIZED AND CONFIGURED TO CONFORM TIGHT TO DUCT DIMENSION.
3. PROVIDE UNISTRUT OR HEAVY ANGLE TO SPAN STRUCTURE AND ATTACH THREADED ROD.

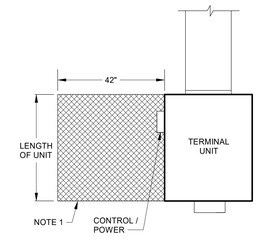
EXPOSED ROUND DUCT SUPPORT DETAIL
3046A NOT TO SCALE 08/13



NOTES:

1. IN LIEU OF WIRING SHOWN, EXTEND THE FLEX TO AN ENCLOSURE FOR THE ACTUATOR.

TERMINAL UNIT WIRING DETAIL
33350 NOT TO SCALE 08/08



NOTES:

1. NO HANGER WIRES, LIGHTS, CONDUIT, SEISMIC RESTRAINTS, PIPING, ETC., SHALL BE LOCATED WITHIN THIS ARE FROM THE CEILING PLANE TO THE TOP OF THE TERMINAL UNITS.
2. DUCT HEATER SIMILAR.

TERMINAL UNIT AND DUCT HEATER CLEARANCES DETAIL
3019C NOT TO SCALE 02/13

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SOUTH CAROLINA
BUFORD GOFF & ASSOCIATES, INC. No. 000022
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 26527
4/17/2026
JONATHAN BURKETT

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG
GMC ACOL240010

HVAC DETAILS

M-500

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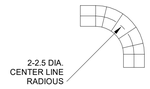
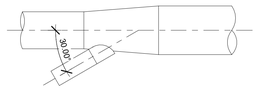
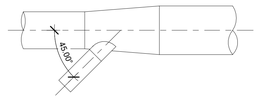
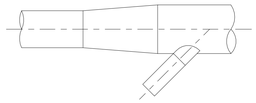
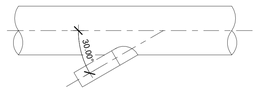
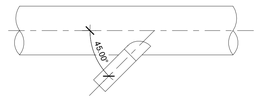
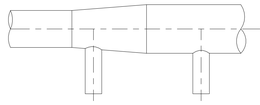
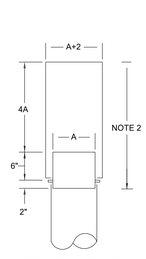
REQUIRED FITTINGS NOTES 1	ALTERNATIVE FITTINGS NOTE 2	PROHIBITED FITTINGS NOTE 3
 WELDING EXHAUST ELBOW	 WELDING EXHAUST ELBOW	 MITERED ELBOW
 WELDING BRANCH CONNECTION AT TRANSITION (30 DEG)	 WELDING BRANCH CONNECTION AT TRANSITION (45 DEG)	 WELDING BRANCH CONNECTION AFTER TRANSITION
 WELDING BRANCH CONNECTION (30 DEG)	 WELDING BRANCH CONNECTION (45 DEG)	 WELDING BRANCH CONNECTION STRAIGHT TAP

NOTES:

1. REQUIRED FITTINGS ARE FITTINGS THAT SHALL BE INCLUDED IN BIDDING THE PROJECT.
2. ALTERNATIVE FITTINGS ARE FITTINGS THAT MAY BE CONSIDERED BY THE A/E IF IT IS DETERMINED THAT PHYSICAL CONSTRAINTS MAKE A FITTING IN THIS GROUP A BETTER ALTERNATIVE TO THE REQUIRED FITTING. THESE FITTINGS WILL ONLY BE CONSIDERED BY THE A/E UPON REVIEW OF COORDINATION DRAWINGS OR SKETCHES SUBMITTED BY THE CONTRACTOR.
3. PROHIBITED FITTINGS INCLUDE THOSE INDICATED PLUS ANY OTHERS NOT INDICATED ON THIS DETAIL.
4. WELDING DUCT SHALL BE ROUND HEAVY DUTY INDUSTRIAL DUCTWORK. RECTANGULAR OR SPIRAL DUCT IS NOT ACCEPTABLE.

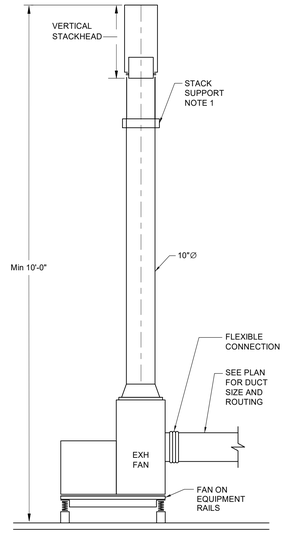
DUST COLLECTOR DUCT FITTINGS

NOT TO SCALE



VERTICAL STACKHEAD DETAIL

BAND DETAIL



NOTES:

1. PROVIDE SUPPORT BAND 3' FROM TOP OF STACK.

UTILITY SET FAN DETAIL

NOT TO SCALE

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Columbia, South Carolina 29201 (803) 765-0000

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GMC ACOL240010

HVAC DETAILS

M-501

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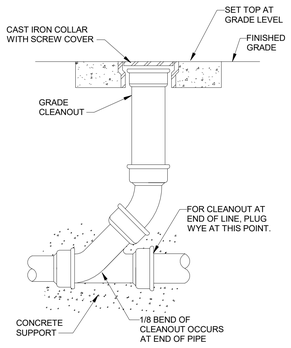
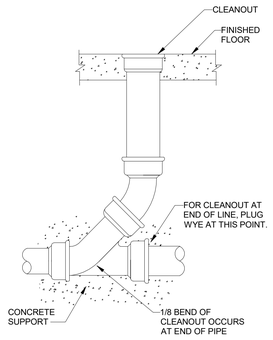


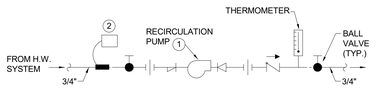
GRADE CLEANOUT

NTS



FLOOR CLEAOUT

NTS



NOTES:

(1) SUPPORT PUMP INDEPENDENTLY FROM PIPING FROM WALL OR STRUCTURE.

(2) AQUASTAT SHALL BE SURFACE MOUNTED. PROVIDE HONEYWELL MODEL L6006C-1018.

DOMESTIC WATER RECIRCULATING PUMP

NTS

PLUMBING DEMOLITION NOTES

1. DRAWINGS SHOW GENERAL INTENT OF DEMOLITION. QUANTITIES, LOCATIONS, SIZES AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF SYSTEM INSTALLED AND DOES NOT NECESSARILY REPRESENT EXACT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY BEFORE BIDDING.
2. DEMOLITION OF EQUIPMENT, SYSTEMS AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PADS, HANGERS, INSULATION, CONTROLS, STARTERS, ACCESSORIES AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM.
3. WHEN PARTIAL DEMOLITION OF A SYSTEM IS INDICATED, THE PART OF THE SYSTEM SHOWN TO BE REMOVED SHALL BE REMOVED TO THE ACTIVE MAIN OR BRANCH IF NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM. THE ACTIVE MAIN OR BRANCH SHALL BE REPAIRED TO MATCH THE NEW INSTALLATION AS PRACTICAL. IF SYSTEM IS INSULATED, INSULATION SHALL BE PATCHED AND FINISH REPAIR (I.E.: VAPOR BARRIER, COATING, ETC.).
4. PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES AND FINISHES. PATCHES SHALL MATCH EXISTING STRUCTURE, FIRE RATING AND FINISH.
5. ALL OPENINGS CREATED BY THE ABANDONMENT OR REMOVAL OF EXISTING SYSTEMS SHALL BE PATCHED.
6. ALL WALLS, ROOFS, SLABS, STRUCTURES AND FINISHES WHOSE FINISH IS IRREGULAR DUE TO THE REMOVAL OF SYSTEMS, SUPPORTS, PADS, ACCESSORIES AND APPURTENANCES SHALL BE PATCHED.
7. ALL FINISHES SHALL MATCH EXISTING FINISH. WHEN FINISH OBVIOUSLY DOES NOT MATCH EXISTING FINISH SUCH AS SHADE OF PAINT, AGE OF FINISH, ETC., THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM 45 DEGREE.
8. REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER PRACTICAL. IF NOT, SYSTEM (I.E.: PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 1 INCH BELOW SURFACE.
9. WHEN WASTE SYSTEMS ARE REMOVED BUT VENT THRU ROOF ARE SPECIFIED TO REMAIN, VENT SHALL BE SECURED TO ROOF STRUCTURE. VENT SHALL ALSO BE CAPPED ON ROOF AND IN THE BUILDING.

P5132

PLUMBING GENERAL NOTES

1. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
2. EXCEPT WHERE PIPE SPACE IS PROVIDED, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
3. HOT AND COLD WATER PIPING RUNS ABOVE CEILING/OVERHEAD.
4. VENTS SHALL EXTEND THROUGH THE ROOF 12" ABOVE ROOF.
5. LOCATE WALL HYDRANTS 2'-0" ABOVE FINISH FLOOR.
6. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT. ACCESS IN RATED ASSEMBLIES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE ASSEMBLY.
7. COORDINATE PLUMBING WORK WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCE AND CONFLICT.
8. VENT PIPING SHALL PITCH A MINIMUM OF 1/8" PER FOOT.
9. PLUMBING CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
10. COLD AND HOT WATER LINES SHOWN IN THE AREA OF A FIXTURE AND/OR TOILET GROUP SHALL BE RUN FULL SIZE OF HEADER INDICATED IN WALL AND/OR CHASE. PROVIDE CONNECTION TO FIXTURES, HOSE BIBB AND TRAP PRIMER AS PLUMBING CONNECTION SCHEDULE AND DETAILS INDICATE.
11. SIZES OF VENT PIPE SHALL BE 2" UNLESS STATED OTHERWISE ON PLANS.
12. ALL SHUT-OFF VALVES SHALL BE BALL VALVES.

PLUMBING CONNECTION SCHEDULE *

P-NO.	FIXTURE	COLD WATER SIZE	HOT WATER SIZE	WASTE			VENT SIZE	REMARKS
				DIRECT	INDIRECT			
				SIZE	SIZE	DRAIN		
P-1	SINGLE COMPARTMENT STAINLESS STEEL FREE STANDING SINK	1/2"	1/2"	1 1/2"	-	-	2"	(1)
P-2	EMERGENCY EYE WASH/SHOWER	1/2"	-	1 1/2"	-	-	2"	(2)
P-3	WALL HYDRANT	3/4"	-	-	-	-	-	

REMARKS

(1) PROVIDE ASSE 1070 MIXING VALVE ON HOT WATER SUPPLY TO FAUCET.

(2) RUN 70° TEPID WATER FROM MIXING VALVE TO EYEWASH.

* GENERAL PLUMBING FIXTURE NOTES (THESE NOTES APPLY TO ALL APPLICABLE PLUMBING FIXTURES):

a. THE CONTRACT DOCUMENTS ARE INTENDED TO PROVIDE A GUIDE FOR THE PLUMBING CONTRACTOR FOR THE PURPOSES OF BIDDING THIS PROJECT. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL ROUGH-IN LOCATIONS AND FINAL CONNECTION WITH APPROVED SHOP DRAWINGS AND CUT SHEETS.

b. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL MATERIALS NECESSARY TO PROVIDE FINAL CONNECTIONS TO EQUIPMENT INCLUDING OWNER FURNISHED EQUIPMENT IF ANY.

c. PROVIDE SUPPLY STOPS, P-TRAPS AND REDUCER FITTINGS. PROVIDE ALL OTHER ACCESSORIES AT EACH PIECE OF EQUIPMENT TO ALLOW THE EQUIPMENT TO OPERATE PROPERLY IN ACCORDANCE WITH ALL PERTINENT CODES AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

PLUMBING DEMOLITION AND RENOVATION LEGEND

	NEW	EXISTING TO REMAIN	REMOVE
DOMESTIC COLD WATER LINE			
DOMESTIC HOT WATER LINE			
HOT WATER RECIRCULATING LINE			
SANITARY WASTE LINE			
SANITARY VENT LINE			
PLUMBING FIXTURE			

PLUMBING ABBREVIATIONS

ABV	ABOVE	GA	GAUGE		
AFF	ABOVE FINISHED FLOOR	GAL	GALLONS PER MINUTE	P-1	PLUMBING FIXTURE NUMBER 1
AP	ACCESS PANEL	HW	HOT WATER LINE	PDI	PLUMBING DRAINAGE INSTITUTION
ARCH	ARCHITECTURAL	HWR	HOT WATER RECIRCULATING LINE	PFD	PIPE TO FLOOR DRAIN
CI	CAST IRON	IW	INDIRECT WASTE	PIV	POST INDICATOR VALVE
CLG	CEILING	IWH	INSTANTANEOUS WATER HEATER	PRV	PRESSURE REDUCING VALVE
CW	COLD WATER	IE	INVERT ELEVATION	RCP	REINFORCED CONCRETE PIPE
D	DIRECT WASTE	MAX	MAXIMUM	REC	RECIRCULATING
DIA	DIAMETER	MIN	MINIMUM	SD	STORM DRAIN
DWG	DRAWING	MV	MIXING VALVE	ST	STORAGE TANK
ET	EXPANSION TANK	NC	NORMALLY CLOSED	TYP	TYPICAL
FD	FLOOR DRAIN	NG	NATURAL GAS	V	VENT
FS	FLOOR SINK	NO	NORMALLY OPEN	VTR	VENT THRU ROOF
FT	FEET	OC	ON CENTER	W	WASTE

PLUMBING LEGEND

- SANITARY WASTE LINE
- SANITARY VENT LINE
- DOMESTIC COLD WATER LINE
- DOMESTIC HOT WATER LINE
- HOT WATER RECIRCULATING LINE
- 110° TEMPERED WATER (110°)
- WH WALL HYDRANT
- F.CO. FLOOR CLEANOUT
- G.CO. GRADE CLEANOUT
- W.CO. WALL CLEANOUT
- CO. CLEANOUT AT END OF LINE
- FLOOR DRAIN
- BALL VALVE
- CHECK VALVE
- GATE VALVE IN RISER
- RELIEF VALVE
- UNION IN LINE
- BALANCING FITTING, PLUG COCK
- NEW CONNECTS TO EXISTING
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER (TURNED DOWN)
- PIPE TURNS TO
- PIPE TURNS AWAY
- HOSE BIBB WITH VACUUM BREAKER
- THERMOMETER
- PRESSURE GAUGE
- VACUUM BREAKER
- "A" WATER HAMMER ARRESTER "PDI SYMBOL"

WATER HAMMER ARRESTER SCHEDULE

P.D.I. SYMBOL	FIXTURE UNIT RATING	MANUFACTURER AND MODEL	REMARKS
A	1-11	J.R. SMITH HYDROTROL 5005	
B	12-32	J.R. SMITH HYDROTROL 5010	
C	33-60	J.R. SMITH HYDROTROL 5020	
D	61-113	J.R. SMITH HYDROTROL 5030	
E	114-154	J.R. SMITH HYDROTROL 5040	
F	155-330	J.R. SMITH HYDROTROL 5050	

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SOUTH CAROLINA BUFORD GOFF & ASSOCIATES, INC. No. 000022 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED No. 28614 04/17/2026 PROFESSIONAL ENGINEER MARK L. WATTS

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG
GMC ACOL240010

PLUMBING NOTES, LEGENDS, SCHEDULES & DETAILS

P0.01

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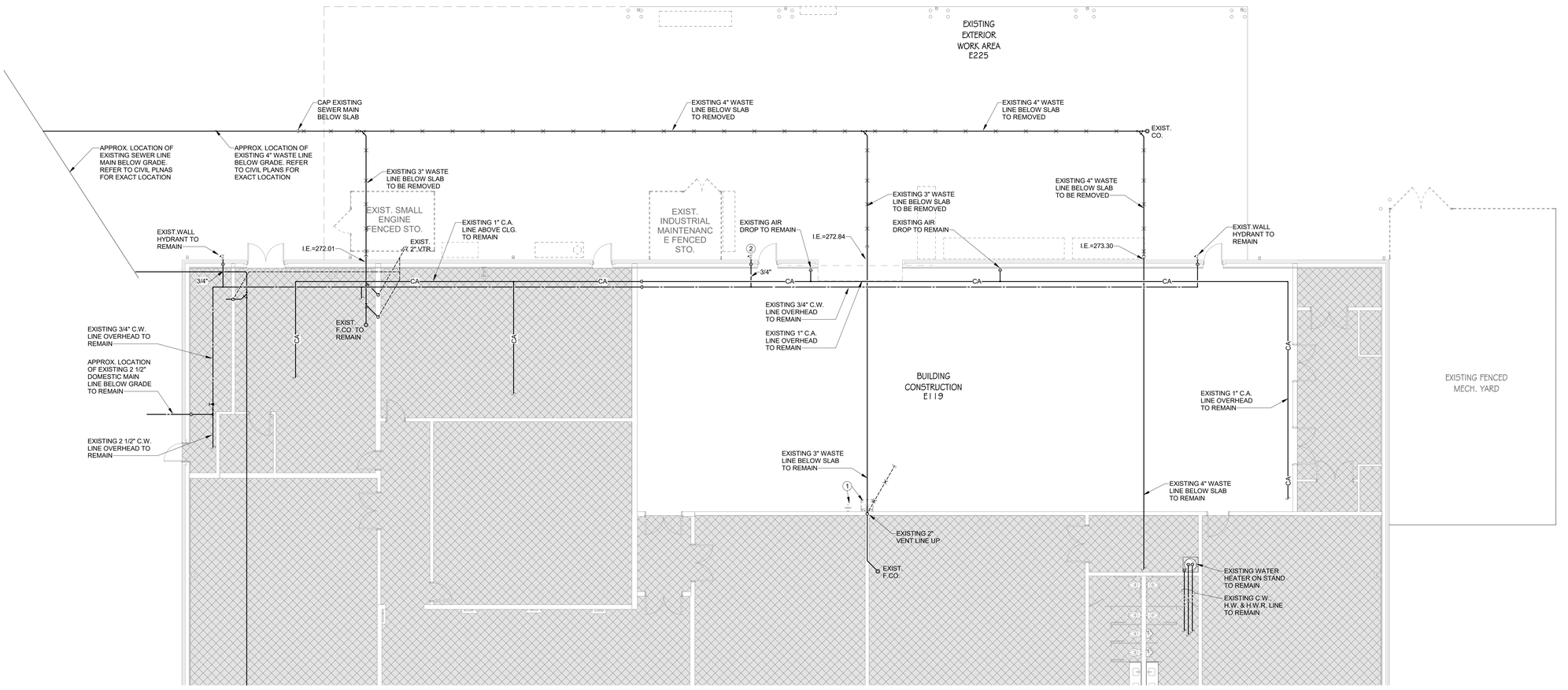
NOTES:

1. EXISTING FIXTURE AND PIPING TO BE REMOVED. CAP WASTE LINE BELOW SLAB. CAP EXISTING VENT LINE BELOW ROOF DECK.
2. REMOVE EXISTING WALL HYDRANT. CAP PIPING IN WALL.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ARE BASED UPON AVAILABLE EXISTING DRAWINGS AND CASUAL FIELD OBSERVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL FIELD CONDITIONS.



PLAN NORTH TRUE NORTH

1 LEVEL 1 - DEMO - PLUMBING

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

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SOUTH CAROLINA
BUFORD GOFF & ASSOCIATES, INC.
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CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 12674
4/17/2026
REGISTERED PROFESSIONAL ENGINEER
MARK L. WATTS

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

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GMC ACOL240010

PLUMBING DEMOLITION

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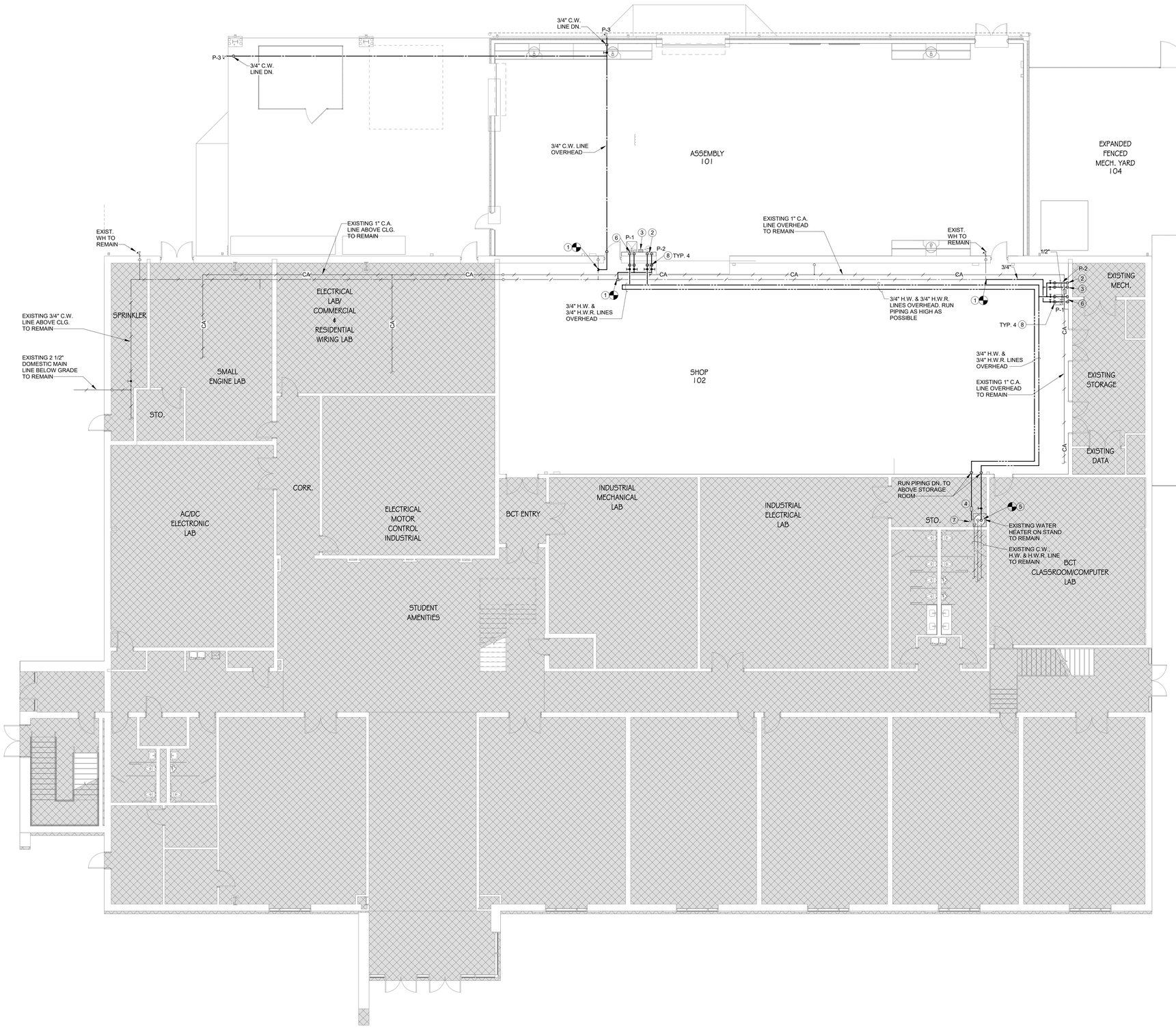

NOTES:

1. TIE-IN NEW C.W. LINE TO EXISTING C.W. LINE OVERHEAD.
2. 1/2" C.W. & 1/2" H.W. LINES DN. TO MIXING VALVE.
3. MIXING VALVE. RUN 1/2" TEPID WATER (70°) FROM MIXING VALVE TO P-2.
4. RECIRCULATING PUMP. REC. PUMP SHALL BE BELL & GOSSET SERIES NBF22 PUMP, 5 GPM @ 12 FT. OF HEAD. 1/12 HP ALL BRONZE CONSTRUCTION. SUPPORT FROM STRUCTURE. REFER TO DETAIL ON SHEET P0.01
5. TIE-IN NEW 3/4" H.W. LINE TO EXISTING H.W. LINE FROM WATER HEATER.
6. 1/2" C.W. & 1/2" H.W. LINES DN.
7. TIE-IN NEW EXIST. C.W. CONNECTION TO WATER HEATER.
8. WATER HAMMER ARRESTER TYPE "A".

GENERAL NOTES:

1. ALL SHUT-OFF VALVES SHALL BE BALL VALVES.

PLAN NORTH

TRUE NORTH

1 LEVEL 1 - FLOOR PLAN - PLUMBING - SUPPLY

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

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REGISTERED PROFESSIONAL ENGINEER No. 12674 04/17/2026 MARK L. WATTS SOUTH CAROLINA

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FLOOR PLAN - PLUMBING - SUPPLY

P1.01

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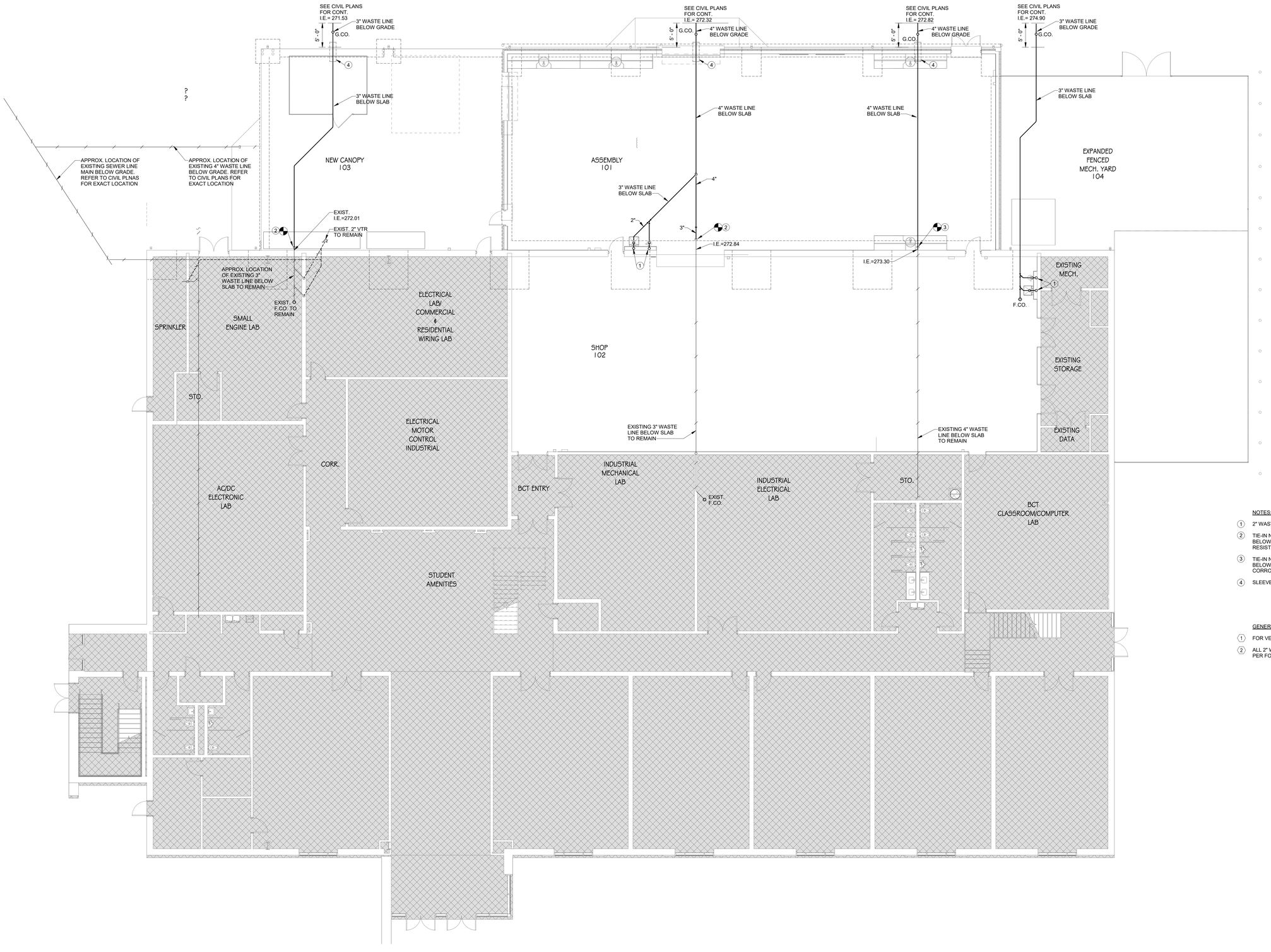

NOTES:

1. 2" WASTE LINE DN. & 2" VENT LINE UP.
2. TIE-IN NEW 3" WASTE LINE TO EXISTING. 3" WASTE LINE CAPPED BELOW GRADE USING A HUSKY CR 7000 HEAVY DUTY CORROSION RESISTANT 316-SS NO-HUB COULING.
3. TIE-IN NEW 4" WASTE LINE TO EXISTING. 4" WASTE LINE CAPPED BELOW GRADE USING A HUSKY CR 7000 HEAVY DUTY CORROSION RESISTANT 316-SS NO-HUB COULING.
4. SLEEVE PIPING BELOW FOOTING.

GENERAL NOTES:

1. FOR VENT PIPING REFER TO RISER ON SHEET P4.00.
2. ALL 2" WASTE PIPING BELOW SLAB SHALL BE RUN @ 1/4" SLOPE PER FOOT.

PLAN NORTH / TRUE NORTH

1 LEVEL 1 - FLOOR PLAN - PLUMBING - WASTE/VENT (F.F.=277.90)

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

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FLOOR PLAN - PLUMBING - WASTE/VENT

P1.01A

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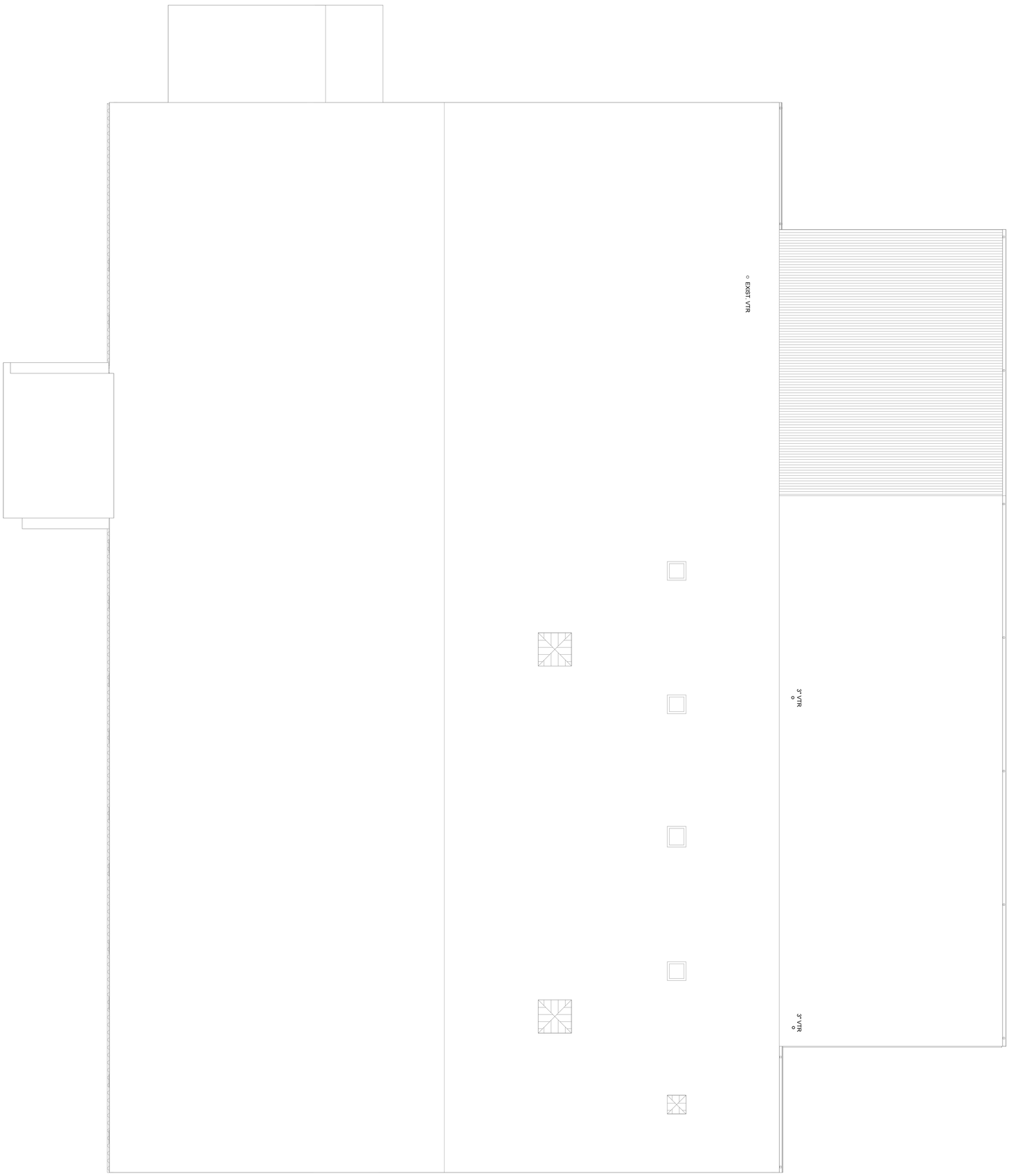
PLAN NORTH

TRUE NORTH

1 ROOF PLAN - PLUMBING

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



ROOF PLAN - PLUMBING

P3.01

AMSC EXPANSION - AIRPORT

1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG

GMC ACOL240010

ISSUE	DATE
CD SET	04/17/2026
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CHECKED BY:	MA

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Engineers & Planners
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Goodwyn Mills Cawood, LLC
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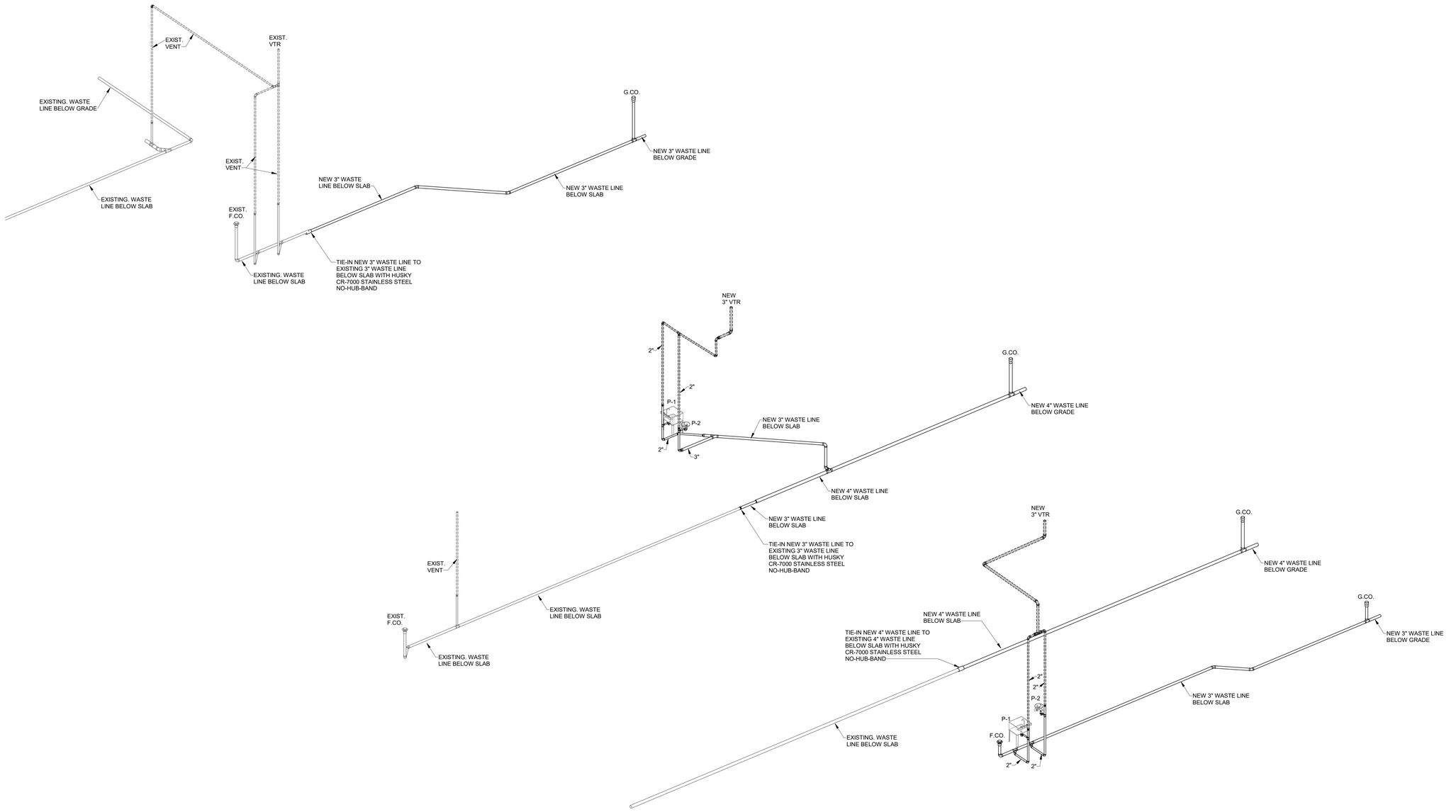
RISER LEGEND

- VENT PIPING
- WASTE PIPING
- EXIST. VENT PIPING
- EXIST. WASTE PIPING



1 PLUMBING WASTE/VENT RISER

SCALE:

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SOUTH CAROLINA
BUFORD GOFF & ASSOCIATES, INC.
No. 000022
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 12674
04/17/2026
MARK L. WATTS

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

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PLUMBING WASTE/VENT RISER

P4.00

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SEISMIC NOTES

MAINS: :

- INSTALL FLEXIBLE COUPLING WITHIN 24" OF THE TOP AND BOTTOM OF ALL MAIN RISERS OVER 7'-0".
- INSTALL ONE FLEXIBLE COUPLING IN RISERS WITHIN 24" OF THE TOP OR BOTTOM IF BETWEEN 3'-0" AND 7'-0".
- NO FLEXIBLE COUPLING IS REQUIRED IF RISER IS LESS THAN 3'-0".
- A FLEXIBLE COUPLING IS REQUIRED WITHIN 12" OF BOTH SIDES OF A MASONRY WALL UNLESS CLEARANCE IS PROVIDED AS NOTED BELOW.
- A FLEXIBLE COUPLING IS REQUIRED WITHIN 12" ABOVE AND WITHIN 24" BELOW THE FLOOR IN MULTISTORY.
- A FLEXIBLE COUPLING IS REQUIRED WITHIN 24" OF BUILDING EXPANSION JOINTS.
- A FLEXIBLE COUPLING IS REQUIRED WITHIN 24" OF THE TOP OF DROPS EXCEEDING 15'-0" IN LENGTH TO PORTIONS OF SYSTEMS SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE.
- A FLEXIBLE COUPLING IS REQUIRED WITHIN 24" ABOVE AND 24" BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
- 4 WAY SWAY BRACE REQUIRED AT THE TOP OF ALL RISERS EXCEEDING 3'-0" IN LENGTH. LATERAL BRACES (PERPENDICULAR TO PIPE) TO BE SPACED MAXIMUM OF 40'-0" (BRACES MAY BE REQUIRED AT LESSER INTERVALS BASED ON CALCULATIONS) **EXCEPTION** LATERAL BRACES ARE NOT REQUIRED WHERE HANGER ROD IS LESS THAN 6" LONG MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.
- LONGITUDINAL BRACES (PARALLEL TO PIPE) TO BE SPACED MAXIMUM OF 80'-0".
- A LATERAL BRACE MUST BE LOCATED WITHIN 6'-0" OF THE END OF PIPE AND MUST BE ON THE LAST PIECE OF PIPE.(BRACES MAY BE REQUIRED AT LESSER INTERVALS BASED ON CALCULATIONS).
- A LONGITUDINAL BRACE MUST BE LOCATED WITHIN 40'-0" OF THE END OF MAINS.
- LATERAL AND LONGITUDINAL BRACES SHALL BE ATTACHED TO TOP CHORD PANEL POINTS OF JOISTS.
- LATERAL AND LONGITUDINAL BRACES SHALL BE ATTACHED TO THE TOP OF BEAM FLANGE.

LINES:

- THE END OF ALL LINES SHALL BE RESTRAINED FROM VERTICAL MOTION. ONE METHOD OF ACCOMPLISHING THIS IS BY THE USE OF A SURGE RESTRAINER AS MANUFACTURED BY TOLCO OR AFCON.
- THE END OF ALL LINES TO BE RESTRAINED FROM HORIZONTAL MOTION BY INSTALLING AN APPROVED METHOD OF RESTRAINT (A NORMAL HANGER INSTALLED AT 45 DEGREE ANGLE WITH SURGE RESTRAINER IS ACCEPTABLE).
- BRANCH LINE RESTRAINTS SHALL BE INSTALLED AND SPACED AT INTERVALS AS REQUIRED BY NFPA 13, 2019 EDITION,18.6.

CLEARANCE NOTES:

- CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS AND FOUNDATIONS, INCLUDING DRAINS, FIRE DEPARTMENT CONNECTIONS, AND OTHER AUXILIARY PIPING. UNLESS THE REQUIREMENTS OF a. THROUGH d. ARE MET, WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS OR FLOORS, THE HOLES SHALL BE SIZED SUCH THAT THE DIAMETER OF THE HOLES IS NOMINALLY 2 IN. LARGER THAN THE PIPE FOR PIPE 1 IN. NOMINAL TO 3 1/2" NOMINAL AND 4 IN. LARGER THAN THE PIPE FOR PIPE 4 IN. NOMINAL AND LARGER.
  - a. WHERE CLEARANCE IS PROVIDED BY A PIPE SLEEVE, A NOMINAL DIAMETER 2 IN. LARGER THAN THE NOMINAL DIAMETER OF THE PIPE SHALL BE ACCEPTABLE FOR PIPE SIZES 1 IN. THROUGH 3 1/2 IN., AND THE CLEARANCE PROVIDED BY A PIPE SLEEVE OF NOMINAL DIAMETER 4 IN. LARGER THAN THE NOMINAL DIAMETER OF THE PIPE SHALL BE ACCEPTABLE FOR PIPE SIZES 4 IN. AND LARGER.
  - b. NO CLEARANCE SHALL BE REQUIRED FOR PIPING PASSING THROUGH GYPSUM BOARD OR EQUALLY FRANGIBLE CONSTRUCTION THAT IS NOT REQUIRED TO HAVE FIRE RESISTANCE RATING.
  - c. NO CLEARANCE SHALL BE REQUIRED IF FLEXIBLE COUPLINGS ARE LOCATED WITHIN 1 FT. OF EACH SIDE OF A WALL, FLOOR, PLATFORM, OR FOUNDATION.
  - d. NO CLEARANCE SHALL BE REQUIRED WHERE HORIZONTAL PIPING PASSES PERPENDICULARLY THROUGH SUCCESSIVE STUDS OR JOISTS THAT FORM A WALL OR FLOOR/CEILING ASSEMBLY.
- THE CLEARANCE SHALL BE FILLED WITH A FLEXIBLE ELASTOMERIC OR SILICONE CAULK THAT IS COMPATIBLE WITH THE PIPING MATERIAL.
- CLEARANCE FROM STRUCTURAL MEMBERS NOT PENETRATED OR USED, COLLECTIVELY OR INDEPENDENTLY, TO SUPPORT THE PIPING SHALL BE AT LEAST 2 IN.

SPRINKLER SUPPORTS AND BRACING

1. CONTRACTOR SHALL PROVIDE FIRE PROTECTION SHOP DRAWINGS TO STRUCTURAL JOIST DESIGNER/MANUFACTURER FOR COORDINATION OF ACCEPTABLE PIPING LAYOUT, ASSOCIATED LOADS ON BEAMS/TRUSSES AND ATTACHMENT METHODS FOR HANGERS AND SEISMIC BRACING.
2. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. FIRE PROTECTION EQUIPMENT AND/OR PIPING SHALL NOT BE SUPPORTED FROM STRUCTURAL BRIDGING OR UN-REINFORCED METAL DECK (I.E. METAL DECK WITHOUT CONCRETE) WITHOUT STRUCTURAL ENGINEER'S WRITTEN APPROVAL.
4. HANGERS SHALL BE ATTACHED TO BAR JOISTS AT PANEL POINTS (EITHER TOP OR BOTTOM CHORD). CONCRETE ANCHORS SHALL BE IN COMPLIANCE WITH NFPA 13, IBC AND ASCE 7-16 AND SHALL BE QUALIFIED FOR SEISMIC APPLICATION WHEN INSTALLED IN BUILDINGS WHERE SEISMIC PROTECTION IS REQUIRED (I.E., STANDARD DROP IN ANCHORS ARE NOT ACCEPTABLE).

FIRE PROTECTION LEGEND

D	DRAIN LINE
F	FIRE LINE
F(1)	FIRE LINE ZONE No.1
FDC	FIRE DEPARTMENT CONNECTION LINE
FPT	FIRE PUMP TESTHEADER LINE
DF	DRY PIPE FIRE LINE
	OS&Y VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	END OF LINE AND BRANCH LINE RESTRAINT
FS	FLOW SWITCH
TS	TAMPER SWITCH
	RISER CHECK VALVE
	DRY PIPE VALVE
LH	LIGHT HAZARD OCCUPANCY
OH1	ORDINARY HAZARD GROUP 1 OCCUPANCY
	PRESSURE GAUGE WITH GAUGE COCK
	LONGITUDINAL SWAY BRACE
	LATERAL SWAY BRACE
	4 WAY SWAY BRACE

DESIGN CRITERIA NOTES

A. REFER TO PART 3, SPECIFICATION SECTION 21 1300 FOR FIRE PROTECTION SPRINKLER SYSTEM SPECIFICATION SHEET.

B. LIGHT HAZARD AREAS: MINIMUM 0.10 GPM PER SQUARE FOOT OVER THE MOST HYDRAULICALLY REMOTE 1,500 SQUARE FEET WITH A MAXIMUM SPRINKLER SPACING OF 225 SQUARE FEET PER SPRINKLER OR PROVIDE BY HYDRAULICALLY CALCULATED WET SPRINKLER SYSTEMS AS FOLLOWS:

1. PER UL LISTING. REDUCTION IN REMOTE AREA SIZE IS ALLOWED WHEN USING QUICK RESPONSE SPRINKLERS PER PARAGRAPH 19.3.3.2.3 OF NFPA 13 (2019 EDITION). CALCULATIONS SHALL INCLUDE A 100 GPM HOSE STREAM ALLOWANCE.
   A. AS NOTED ON PLANS
2. ORDINARY HAZARD (GROUP 1) AREAS: MINIMUM 0.15 GPM PER SQUARE FOOT OVER THE MOST HYDRAULICALLY REMOTE 1,500 SQUARE FEET WITH A MAXIMUM SPRINKLER SPACING OF 130 SQUARE FEET PER SPRINKLER OR PER UL LISTING. REDUCTION IN REMOTE AREA SIZE IS ALLOWED WHEN USING QUICK RESPONSE SPRINKLERS PER PARAGRAPH 19.3.3.2.3 OF NFPA 13 (2019 EDITION). CALCULATIONS SHALL INCLUDE A 250 GPM HOSE STREAM ALLOWANCE.
   A. SPRINKLER ROOM
   B. AS NOTED ON PLANS
3. ORDINARY HAZARD (GROUP 2) AREAS: MINIMUM 0.20 GPM PER SQUARE FOOT OVER THE MOST HYDRAULICALLY REMOTE 1,500 SQUARE FEET WITH A MAXIMUM SPRINKLER SPACING OF 130 SQUARE FEET PER SPRINKLER. CALCULATIONS SHALL INCLUDE A 250 GPM HOSE STREAM ALLOWANCE.
   A. SHOPS
   B. ASSEMBLY
   C. AS NOTED ON PLANS

C. PROVIDE BY HYDRAULICALLY CALCULATED DRY-SPRINKLER SYSTEMS AS FOLLOWS:

1. ORDINARY HAZARD (GROUP 1) AREAS: MINIMUM 0.15 GPM PER SQUARE FOOT OVER THE MOST HYDRAULICALLY REMOTE 1,950 SQUARE FEET WITH A MAXIMUM SPRINKLER SPACING OF 130 SQUARE FEET PER SPRINKLER OR PER UL LISTING. CALCULATIONS SHALL INCLUDE A 250 GPM HOSE STREAM ALLOWANCE.
   A. CANOPIES
   B. AS NOTED ON PLANS

D. DIVISION 21 CONTRACTOR SHALL FURNISH AND INSTALL ALL TAMPER SWITCHES, PRESSURE SWITCHES,FLOW SWITCHES, ETC. AS NOTED IN THESE DRAWINGS AND THE SPECIFICATIONS. DIVISION 28 CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING AND APPURTENANCES REQUIRED TO CONNECT TO THE BUILDING FIRE ALARM SYSTEM.

E. ALL AREAS OF THE BUILDING SHALL BE FULLY SPRINKLED UNLESS SPECIFICALLY NOTED OTHERWISE.

F. SPRINKLER PIPING SHALL BE CONCEALED IN CEILINGS, CHASES, WALLS, ETC. TO THE EXTENT PRACTICAL.

G. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND MECHANICAL AND ELECTRICAL PLANS FOR LOCATION OF CEILINGS, DIFFUSERS, LIGHT AND OTHER CEILING ORNAMENTATION.

H. ALL SYSTEM PIPING SHALL BE INSTALLED TO ALLOW DRAINAGE BACK TO SYSTEM RISER WHEN POSSIBLE. WHERE THIS IS NOT POSSIBLE, AUXILIARY DRAINS SHALL BE INSTALLED AND DRAINED TO AN ACCEPTABLE LOCATION AGREED TO BY THE ARCHITECT, ENGINEER AND OWNER.

I. SPRINKLER SYSTEMS SHALL BE LAID OUT BY ZONES AS INDICATED ON DRAWINGS.

J. THIS CONCEPT DRAWING IS FOR INFORMATION ONLY TO SHOW POTENTIAL SYSTEM ARRANGEMENT. CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION CONTAINED ON THIS DRAWING AND IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF THE SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS.

K. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SEISMIC DESIGN REQUIREMENTS.

L. STATE FIRE MARSHALL APPROVAL OF CONTRACTOR'S SUBMITTAL DOCUMENTS REQUIRED PRIOR TO START OF FIRE SPRINKLER SYSTEM INSTALLATION.

FIRE PROTECTION ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
AFG	ABOVE FINISH GRADE	MAX	MAXIMUM
AP	ACCESS PANEL	MIN	MINIMUM
AMD	AIR MAINTENANCE DEVICE	NC	NORMALLY CLOSED
D	DRAIN	NO	NORMALLY OPEN
DIA	DIAMETER	OC	ON CENTER
ELEV	ELEVATION	PFD	PIPE TO FLOOR DRAIN
FC	FLEXIBLE COUPLING	TS	TAMPER SWITCH
FDC	FIRE DEPARTMENT CONNECTION	TYP	TYPICAL
FP	FIRE PROTECTION	UNO	UNLESS NOTED OTHERWISE
FS	FLOW SWITCH	VPS	VAPOR PIPE SHIELD
FT	FEET		

FIRE PROTECTION GENERAL NOTES

1. SEE SITE PLAN FOR CONTINUATION OF UTILITIES. COORDINATE INVERTS WITH SITE UTILITIES PRIOR TO INSTALLING UNDERGROUND UTILITIES.
2. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
3. COORDINATE FIRE PROTECTION WORK WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCE AND CONFLICT.
4. FIRE STOPPING PENETRATIONS ARE SPECIFIED UNDER DIVISION 7. REFER TO SECTION 078413 OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE PROTECTION DEMOLITION AND RENOVATION LEGEND

	NEW	EXISTING TO REMAIN	REMOVE
FIRE LINE	F	F	F
SPRINKLERS	PER SPRINKLER LEGEND		

3/09 FP5953

MAX. SPACING OF STEEL BRANCH LINE RESTRAINTS (FT.)

PIPE (IN.)	SEISMIC COEFFICIENT, Cp
	Cp≤0.50
1"	43
1 1/4"	46
1 1/2"	49
2"	53

SEISMIC DESIGN CRITERIA

SEISMIC DESIGN CATEGORY (a):	C
RISK CATEGORY (b):	III
Ss (0.2 SECOND SEISMIC ACCELERATION) (a):	0.346
Cp (SEISMIC COEFFICIENT PER NFPA 13/2019):	0.36
SITE CLASS (a):	D

NOTES:
(a) INFORMATION PROVIDED BY STRUCTURAL ENGINEER
(b) INFORMATION PROVIDED BY ARCHITECT

SPRINKLER SCHEDULE & LEGEND ⑧

SYMBOL	MANUF.	MODEL	SIZE	TEMP ①	FINISH ②	POSITION	PLATE	K FACTOR	QUICK RESPONSE	EXT. COVERAGE	SIN #	NOTES
⦿	RELIABLE	F1FR56	1/2"	200	WHITE	PENDENT	RECESSED	5.6	Y	N	RA1414	④
◑	RELIABLE	F1FR56	1/2"	200	ELECTROLESS NICKEL PTFE	UPRIGHT	N/A	5.6	Y	N	RA1425	③
⊘	RELIABLE	F1FR56	1/2"	200	BRASS	UPRIGHT	N/A	5.6	Y	N	RA1425	③

① UNLESS NOTED OTHERWISE ON PLANS OR HIGHER IF REQUIRED BY NFPA 13.
② UNLESS NOTED OTHERWISE ON PLANS.
③ PROVIDE SPRINKLER GUARD WHERE NOTED. SPRINKLER GUARD SHALL BE SELECTED FOR INSTALLATION TYPE AND HAVE WHITE POWDER COAT FINISH AS MANUFACTURED BY SPRINKGUARD. SPRINKLER SHALL BE UL LISTED FOR USE WITH FIRE SPRINKLER GUARDS AS MANUFACTURED BY SPRINKGUARD.
④ PUSH ON/THREAD OFF ESCUTCHEON/COVER PLATE.
⑤ ESCUTCHEON TEMPERATURE RATING/SPRINKLER TEMPERATURE RATING.
⑥ FINISH MAY BE A CUSTOM COLOR AND NOT A STANDARD COLOR OFFERED BY MANUFACTURER.
⑦ LISTED AS QUICK RESPONSE FOR LIGHT AND ORDINARY HAZARD PER LISTED SPACING REQUIREMENTS.
⑧ SPRINKLER MANUFACTURER LISTED IS THE BASIS OF DESIGN. OTHER MANUFACTURERS ARE ACCEPTABLE AS NOTED IN SPECIFICATION SECTION 21 1300.

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION BUFORD GOFF & ASSOCIATES, INC. No. 000022

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 12614 MARK L. WATTS 04/17/2026

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG
GMC ACOL240010

LEGENDS, NOTES, & SCHEDULES - FIRE PROTECTION

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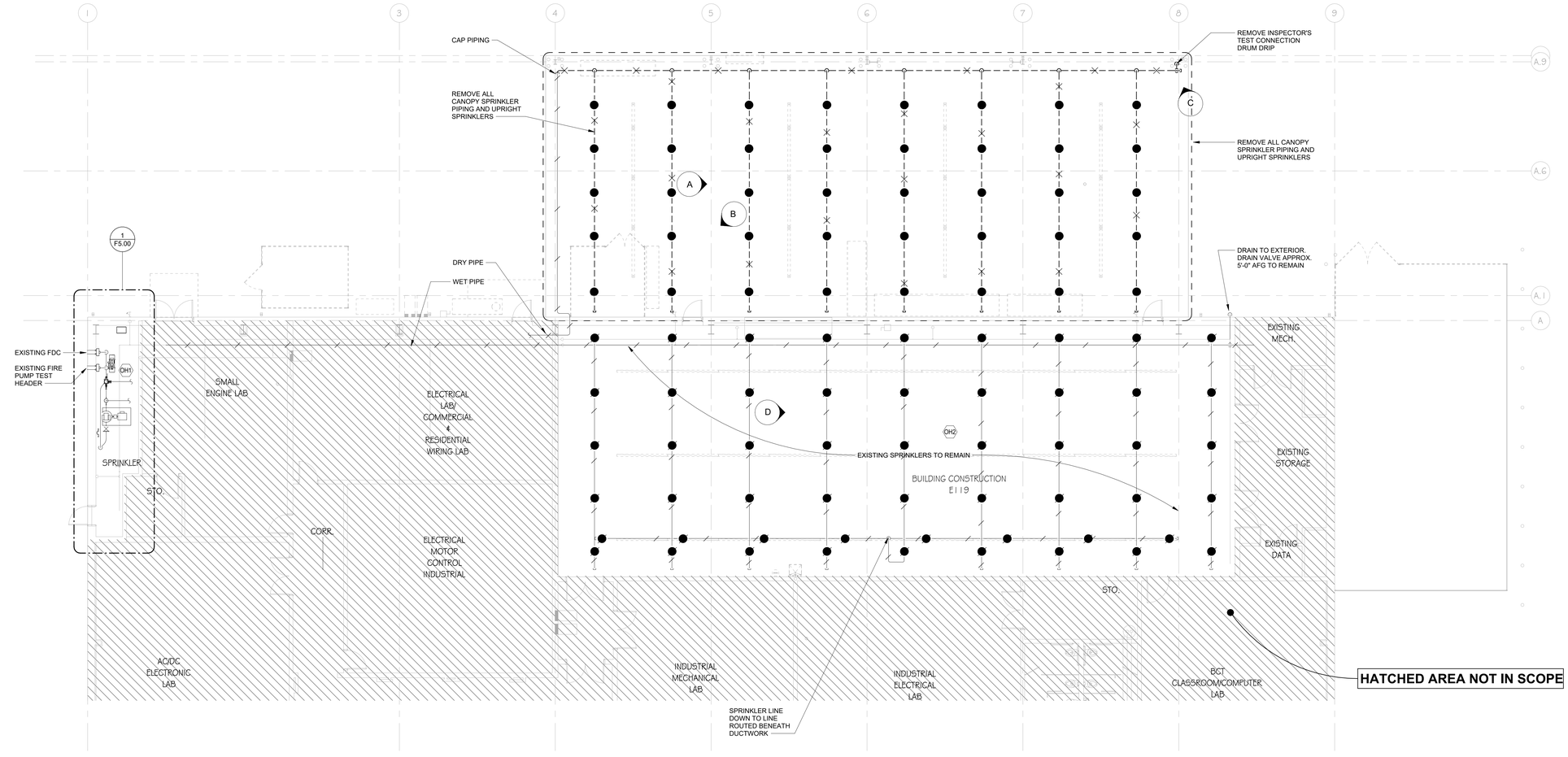
4/17/2026 11:21:08 AM TEMPLATE VERSION: 2022.1

A CANOPY SPRINKLERS
SCALE: N.T.S.

B CANOPY SPRINKLERS
SCALE: 1" = 1'-0"

C INSPECTOR'S TEST
SCALE: N.T.S.

D BUILDING CONSTRUCTION ROOM E119
SCALE: N.T.S.



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

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SOUTH CAROLINA
No. 12614
04/17/2026
REGISTERED LANDSCAPE ARCHITECT
MARK L. WATTS

AMSC EXPANSION - AIRPORT
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DEMOLITION PLAN - FIRE PROTECTION

F0.10

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GENERAL NOTES

1. BUILDING SHALL BE PROTECTED BY A WET PIPE SPRINKLER SYSTEM.
2. SPRINKLERS IN AREAS WITH FINISHED CEILINGS SHALL BE PROVIDED WITH RECESSED PENDENT SPRINKLERS PER SPRINKLER SCHEDULE & LEGEND UNLESS NOTED OTHERWISE.
3. SPRINKLERS IN AREAS WITHOUT FINISHED CEILINGS SHALL BE UPRIGHT SPRINKLERS PER SPRINKLER SCHEDULE UNLESS OTHERWISE NOTED.
4. SPRINKLERS IN LAY-IN CEILINGS SHALL BE CONNECTED TO SPRINKLER PIPING VIA FLEXIBLE SPRINKLER DROPS EQUAL TO VICTAULIC VICFLEX AH2 OR FLEXHEAD INDUSTRIES SUPERFLEX.
5. PIPING SHALL BE A COMBINATION OF SCHEDULE 10 AND SCHEDULE 40 STEEL PIPING WITH GROOVED COUPLINGS, WELDED OUTLETS, AND THREADED FITTINGS. EXPOSED DRY SYSTEM PIPING SHALL BE GALVANIZED.
6. PROVIDE AT LEAST ONE AUTOMATIC AIR VENT ASSEMBLY FOR EACH SYSTEM. REFER TO SECTION 21 1300 FOR ADDITIONAL INFORMATION.

NOTES

1. AREA BENEATH NEW CANOPY TO BE PROTECTED WITH DRY UPRIGHT SPRINKLERS PER SPRINKLER SCHEDULE AND LEGEND.
2. PROVIDE A SPRINKLER LINE CONNECTED TO THE EXISTING WET PIPE SPRINKLER SYSTEM WITH A CONTROL VALVE WITH A SUPERVISORY SWITCH. SPRINKLERS SHALL BE INSTALLED IN EXHAUST DUST COLLECTION DUCTWORK AND SPACED 12'-0" ON CENTER FOR HORIZONTAL DUCTS, AT THE TOP OF EACH VERTICAL RISER, AND AT THE MIDPOINT OF EACH OFFSET. SPRINKLERS SHALL BE CALCULATED TO PROVIDE A MINIMUM FLOW OF 30 GPM AND A MINIMUM OF 15 PSI PRESSURE. SPRINKLERS SHALL BE INSTALLED IN A FLEXIBLE HOSE ASSEMBLY EQUAL TO FLEXHEAD MODEL 11XX (FLEX LENGTH DETERMINED BY CONTRACTOR) WITH PRE-ASSEMBLED VIKING VK102 WAX COATED, 5.6K, 155°F WITH EPDM GASKET WITH DOUBLE LAYERED POLY BAG. VERIFY QUANTITY AND LOCATION OF SPRINKLER/HOSE ASSEMBLIES IN FIELD. ASSUME A MINIMUM OF TWENTY (20) SPRINKLER/HOSE ASSEMBLIES REQUIRED PER DUST COLLECTION SYSTEM. SEE MECHANICAL DRAWINGS FOR EXHAUST DUCT LAYOUT. SPRINKLERS ARE NOT REQUIRED IN DUCTS WITH DIAMETERS LESS THAN 10" PER IMC 510.7 EXCEPTION 3.

DOWN TO INSPECTOR'S TEST CONNECTION DRUM DRIP
DF
3"
NEW CANOPY 103
EXISTING DRY PIPE FIRE LINE MAIN
EXISTING DRY PIPE FIRE LINE MAIN
EXISTING WET PIPE
NEW PIPING AND UPRIGHT SPRINKLERS CONNECTED TO EXISTING MAIN LINE INSIDE BUILDING
EXISTING DRAIN TO EXTERIOR. DRAIN VALVE APPROX. 5'-0" AFG
EXPANDED FENCED MECH. YARD 104
EXISTING FDC
EXISTING FIRE PUMP TEST HEADER
SPRINKLER E125
STO. E116A
SMALL ENGINE LAB E116
ELECTRICAL LAB/ COMMERCIAL & RESIDENTIAL WIRING LAB E117
EXISTING MECH. E126C
EXISTING STORAGE E126A
EXISTING DATA E126D
EXISTING SPRINKLERS TO REMAIN
SPRINKLER LINE DOWN TO LINE ROUTED BENEATH DUCTWORK
STO. E121A
ELECTRICAL MOTOR CONTROL INDUSTRIAL E118
CORR. E114
AC/DC ELECTRONIC LAB E115
INDUSTRIAL MECHANICAL LAB E120
INDUSTRIAL ELECTRICAL LAB E121
BCT CLASSROOM/COMPUTER LAB E124
HATCHED AREA NOT IN SCOPE
WOMEN E122
MEN E123
STO. E115B
DATA E115A
STUDENT AMENITIES E112
VESTIBULE E100A
CORRIDOR E113A
CORRIDOR E113B
STAIR E100
WOMEN E102
MEN E103
ELEC. E101
DATA E105B
STO. E105A
MECHATRONICS E105
LOBBY E106
MECHATRONICS E107
INDUSTRIAL CLASSROOM / COMPUTER LAB E108
ADVANCED MOTOR CONTROL LAB E109
PLC LAB E110
EQUIPMENT STORAGE ROOM E111
VESTIBULE E106A

PLAN NORTH
TRUE NORTH

1 LEVEL 1 FLOOR PLAN - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER MARK L. WATTS No. 12614 04/17/2026

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FLOOR PLANS - FIRE PROTECTION

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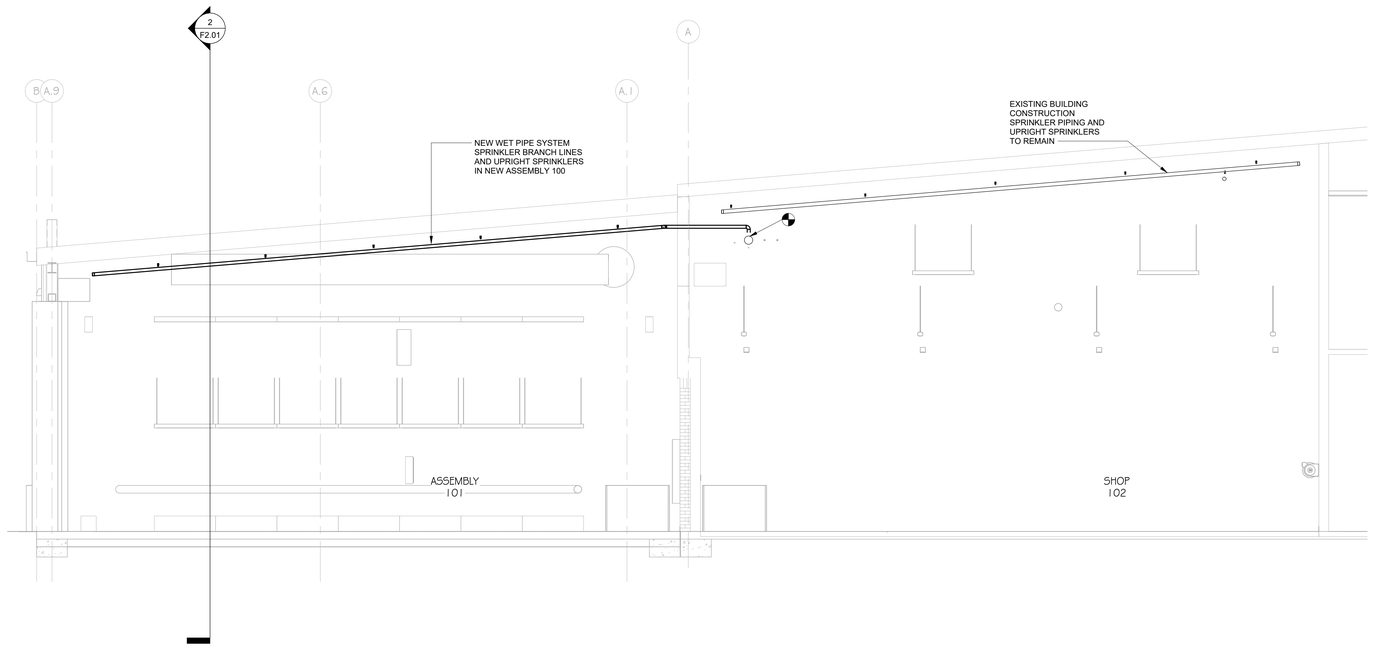
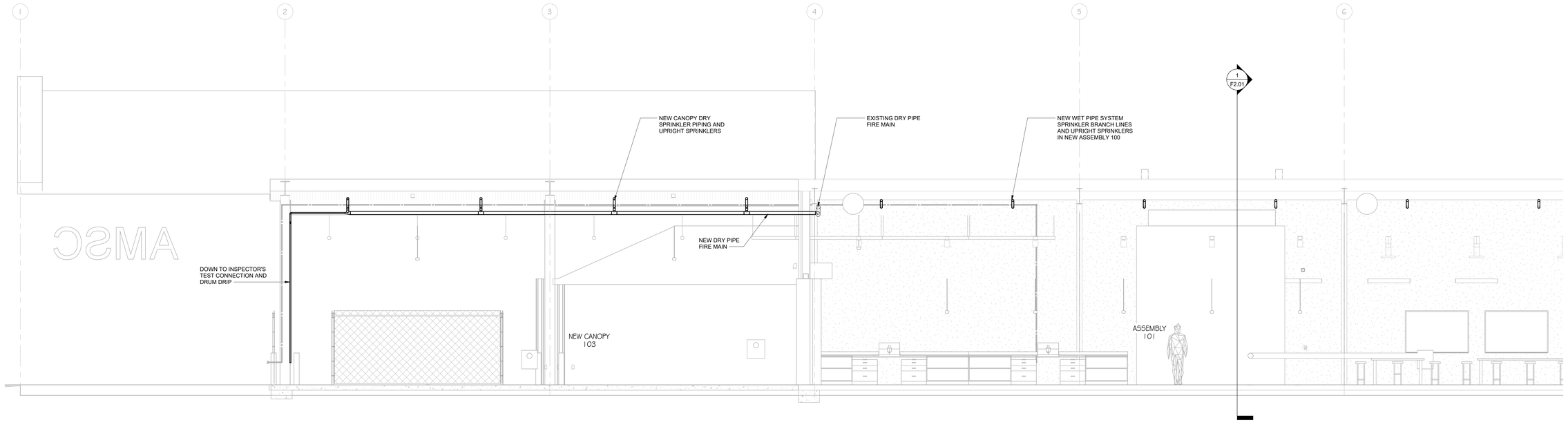
4/17/2026 11:21:12 AM TEMPLATE VERSION: 2022.1



1 PARTIAL BUILDING SECTION - 1

SCALE: 1/4" = 1'-0"



2 PARTIAL BUILDING SECTION - 2

SCALE: 1/4" = 1'-0"

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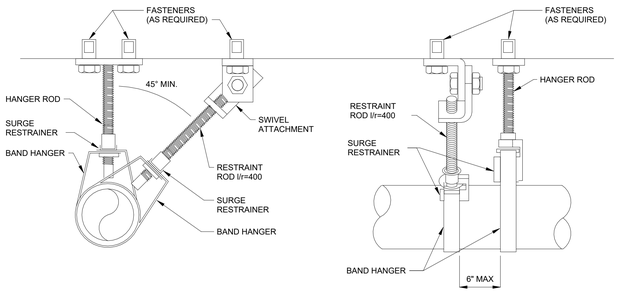
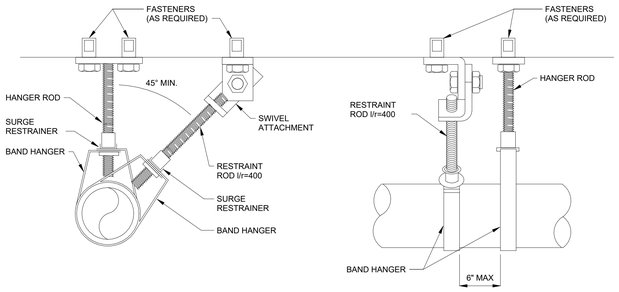
BUILDING SECTIONS - FIRE PROTECTION

F2.01

4/17/2026 11:21:12 AM TEMPLATE VERSION: 2022.1



HANGER (WITH SURGE CLIPS)



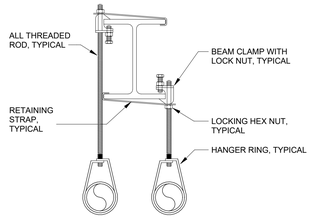
HANGER (WITH THREADED ROD EXTENDED TO PIPE)

RODS (ALL THREADED), SIZE	LEAST RADIUS OF GYRATION, r (IN)	MAX LENGTH (IN)* (l/r) = 400
3/8	0.075	30
1/2	0.101	40
5/8	0.128	51

* IF MAXIMUM ROD LENGTH FOR l/r=400 ARE EXCEEDED, AN ADDITIONAL ANGLED HANGER/ROD SHALL BE INSTALLED ON OPPOSITE SIDE OF PIPE.

BRANCH LINE AND END OF LINE RESTRAINT DETAIL

08/18 NOT TO SCALE FP5707

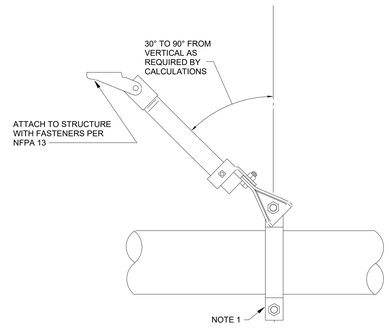


NOTES:

1. ATTACHMENT TO JOIST CONSTRUCTION IS SIMILAR.
2. BEAM CLAMP MAY ATTACH TO EITHER TOP OR BOTTOM BEAM FLANGE OR AT BAR JOIST PANEL POINTS (EITHERTOP OR BOTTOM CHORD).
3. THE RESTRAINING STRAP SHALL WRAP AROUND THE BEAM FLANGE OR JOIST CHORD NOT LESS THAN 1".
4. WHERE PURLINS OR BEAMS DO NOT PROVIDE A SECURE LIP TO A RETAINING STRAP, THE STRAP SHALL BE THROUGH-BOLTED OR SECURED BY A SELF-TAPPING SCREW.

BEAM CLAMP WITH RETAINING STRAP DETAIL

NOT TO SCALE FP5704

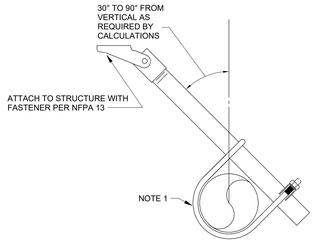


NOTES:

1. SEISMIC PIPE CLAMP EARS TO BE INSTALLED IN VERTICAL POSITION. THE USE OF STANDARD PIPE RISER CLAMPS IS NOT ACCEPTABLE.

GENERIC LONGITUDINAL BRACE DETAIL

12/24 NOT TO SCALE FP5703

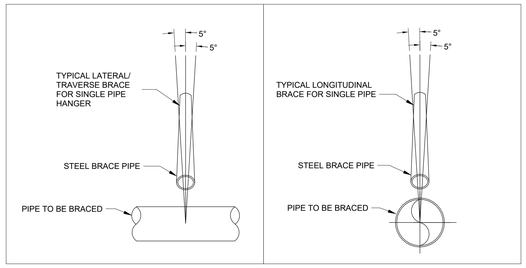


NOTES:

1. SEISMIC PIPE CLAMP SHALL NOT BE USED FOR LATERAL BRACE UNLESS SPECIFICALLY LISTED FOR TRAVERSE BRACE INSTALLATION.

GENERIC LATERAL/TRAVERSE BRACE DETAIL

12/24 NOT TO SCALE FP5702

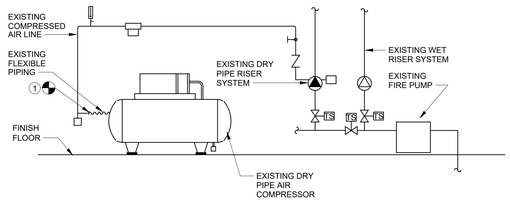


NOTES:

1. IF THE ATTACHMENT TO STRUCTURE DOES NOT ALLOW AN INSTALLATION WITHIN 5° AS INDICATED ABOVE, TWO BRACES SHALL BE INSTALLED - ONE GOING IN EITHER DIRECTION TO ACCOMMODATE FOR THE ANGLE OFFSET.

MAXIMUM ALLOWABLE OFFSET ANGLE FOR SEISMIC BRACING INSTALLATION

11/16 NOT TO SCALE FP5701

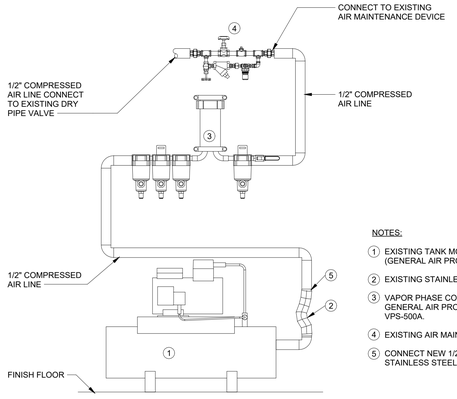


NOTES:

1. DISCONNECT AT FLEXIBLE PIPING. ROUTE NEW HARD PIPE TO NEW VAPOR PHASE CORROSION INHIBITOR SYSTEM.

DRY PIPE SYSTEM SCHEMATIC

5/08 NOT TO SCALE FP5401

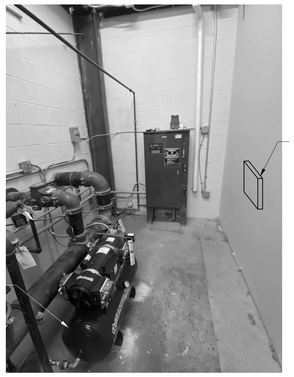


NOTES:

1. EXISTING TANK MOUNTED AIR COMPRESSOR (GENERAL AIR PRODUCTS OLT1225200AC).
2. EXISTING STAINLESS STEEL HOSE.
3. VAPOR PHASE CORROSION INHIBITOR SYSTEM. GENERAL AIR PRODUCTS MODEL NUMBER VPS-500A.
4. EXISTING AIR MAINTENANCE DEVICE.
5. CONNECT NEW 1/2" PIPING TO EXISTING STAINLESS STEEL HOSE.

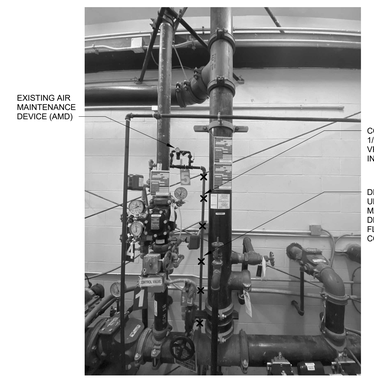
VAPOR PHASE CORROSION INHIBITOR SYSTEM WITH AIR COMPRESSOR

05/24 NOT TO SCALE



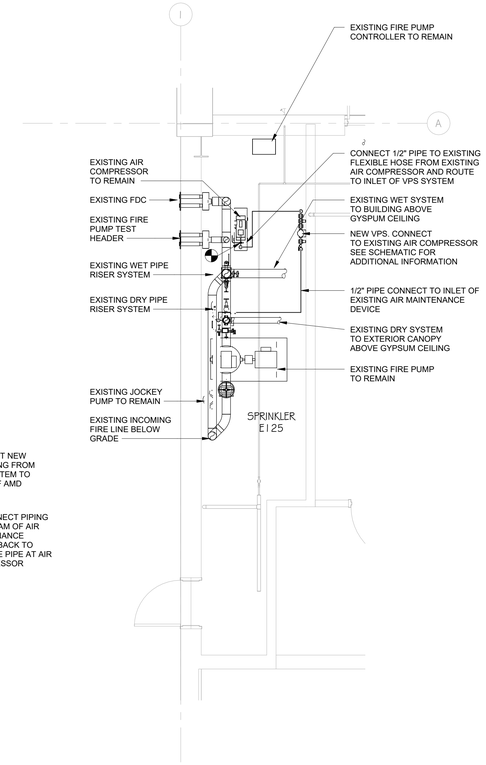
A SPRINKLER RISER ROOM

SCALE: N.T.S.



B RISER

SCALE: N.T.S.



1 ENLARGE SPRINKLER ROOM - FIRE PROTECTION

SCALE: 1/4" = 1'-0"

GMC
Goodwyn Mills Cawood, LLC
915 Lady Street, Suite C
Columbia, SC 29201
T 803.766.1235
GMCNETWORK.COM

Buford Goff & Associates, Inc.
Engineers & Planners
1331 Elmwood Avenue, Suite 200
Columbia, South Carolina 29201

ISSUE	DATE
CD SET	04/17/2026

DRAWN BY: LAM
CHECKED BY: MLW

SOUTH CAROLINA BUFORD GOFF & ASSOCIATES, INC. No. 000022 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER MARK L. WATTS No. 12614 4/17/2026 CERTIFICATE OF AUTHORIZATION

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG
GMC ACOL240010

DETAILS - FIRE PROTECTION

F5.00

4/17/2026 11:21:14 AM TEMPLATE VERSION: 2022.1

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	PART NUMBER	FINISH	LAMP QUANTITY	LAMP TYPE	WATTAGE	VOLTAGE	REMARKS
LA	FINELITE AXIS MARK	HP6PD-X-V EQUAL EQUAL	FINISH BY ARCHITECT	-	LED	10/FT	UNV	LED LINEAR PENDANT, PROVIDE RUN LENGTHS AS SHOWN ON PLANS
LW	AXIS	TB4WDLED-1000-80-40-SO-4'-UNV-DP-1	FINISH BY ARCHITECT	-	LED	21	UNV	LED WALLMOUNT TASK LIGHT
P1	METALUX	SSLED-LD5-9-M-UNV-L840-CD-1	FINISH BY ARCHITECT	-	LED	64	UNV	LED HIGH BAY WITH 0-10V DIMMING
P2	GOTHAM	EVO6PC-40/30-AR-LSS-MD-MVOL T-GZ10-JBX-PCAN	FINISH BY ARCHITECT	-	LED	35	UNV	LED PENDANT CYLINDER ON STEM. 0-10V DIMMABLE.
W1	GARDCO	101L-16L-400-NW-G2-3-UNV-WH	FINISH BY ARCHITECT	-	LED	22	UNV	LED 2500 LUMEN WALL MOUNT FULL CUTOFF WALL PACK, TYPE III DISTRIBUTION
WC	PINNACLE	EX6-WET-N-4000K-X-U-FSD-1C	WHITE / PAINT AFTER FABRICATION	-	LED	10/FT	UNV	LED LINEAR SURFACE MOUNT, PROVIDE RUN LENGTHS AS SHOWN ON PLANS
EX1	INFINITY SURE-LITES LITHONIA DUAL LITE	EXIT/CA-SF-G-EM-WF-WH CX-6-1-R-W LES-W1R-120/277-ELN SESRW-EI	WHITE	BY MANF.	LED	-	UNV	SINGLE FACED LED, EVENLY ILLUMINATED EXIT LIGHT WITH EMERGENCY BATTERY BACKUP. CONNECT TO AREA UNSWITCHED LIGHTING CONDUCTOR.

LIGHTING FIXTURE SCHEDULE NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING FIXTURE TRIMS THAT ARE COMPATIBLE WITH CEILING TYPES SHOWN ON THE REFLECTED CEILING PLANS, REGARDLESS OF THE FIXTURE TRIMS INDICATED IN THE FIXTURE SCHEDULE.
2. UNLESS NOTED OTHERWISE ON FIXTURE SCHEDULE, THE COLOR TEMPERATURE OF LIGHT SOURCES SHALL BE 4000K WITH MINIMUM CRI OF 80.
3. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
4. THE USE OF A MODULAR WIRING SYSTEM TO CIRCUIT LIGHT FIXTURES IS NOT ALLOWED.

H1 LIGHTING FIXTURE SCHEDULE
SCALE: N.T.S.

EMERGENCY LIGHTING NOTES

1. LIGHTING FIXTURES DESIGNATED AS EMERGENCY ARE IDENTIFIED BY THE FOLLOWING SYMBOLS AND SUFFIXES:

   ⊘**E ⊗

   **E **E

   ** = FIXTURE TYPE DESIGNATION

2. EMERGENCY FIXTURES SHALL BE FURNISHED WITH A SELF TEST BATTERY BACKUP BY IOTA OR APPROVED EQUAL, WITH A REMOTE MANUAL TEST BUTTON INSTALLED ADJACENT TO FIXTURE. FOR EXTERIOR FIXTURES TEST SWITCH SHALL BE LOCATED INSIDE NEAREST DOORWAY. PROVIDE AN UNSWITCHED CONDUCTOR TO ALL FIXTURES WITH A BATTERY BACKUP. BATTERY BACKUPS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3. NIGHT LIGHTING FIXTURES ARE IDENTIFIED BY THE FOLLOWING SYMBOLS:

   ○NL

   NL NL

4. NIGHT LIGHTING FIXTURES SHALL BE CONNECTED TO UNSWITCHED CONDUCTOR TO PROVIDE CONSTANT OPERATION.

GENERAL LIGHTING INSTALLATION NOTES:

1. OCCUPANCY SENSORS SHALL BE ADJUSTED AS REQUIRED FOR ROOM COVERAGE, SET TO TIME OUT AFTER 30 MINUTES AND SET TO MAXIMUM SENSITIVITY.
2. COORDINATE OCCUPANCY SENSOR LOCATIONS WITH CASEWORK AND SHELVING. OCCUPANCY SENSORS SHALL NOT BE INSTALLED OVER OBJECTS THAT INTERFERE WITH THEIR OPERATION AND RANGE. SHIFT LOCATIONS AS REQUIRED FOR PROPER OPERATION AND TO ACCESS TO THE DEVICE.
3. PROVIDE MINIMUM #12 AWG CONDUCTORS FOR LIGHTING BRANCH CIRCUIT OR LARGER WHERE INDICATED.
4. ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN 3/4" CONDUIT. ALL POWER PACKS SHALL BE INSTALLED IN JUNCTION BOXES. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS.
5. THE CONTRACTOR SHALL PROVIDE AN UNSWITCHED CONDUCTOR TO ALL EMERGENCY FIXTURES AS REQUIRED FOR EMERGENCY OPERATION. SEE EMERGENCY LIGHTING NOTES.
6. ADJUST FIXTURE LOCATIONS AS REQUIRED FOR MECHANICAL EQUIPMENT, CHASES, OR OTHER EQUIPMENT AS REQUIRED FOR INSTALLATION.
7. OCCUPANCY SENSOR, SWITCHSTATION, COVERPLATE AND TOGGLE SWITCH COLORS SHALL BE SELECTED BY ARCHITECT. ALL LOW VOLTAGE SWITCHSTATION BUTTONS SHALL BE LABELED TO INDICATE AREA OF CONTROL AND SHALL BE COORDINATED WITH ARCHITECT AND OWNER.

LIGHTING SYMBOL SCHEDULE

SYMBO	DESCRIPTION
A	LIGHTING FIXTURE
A	EMERGENCY LIGHT, SEE EMERGENCY LIGHTING NOTES , THIS SHEET.
A	LIGHTING FIXTURE - WALL OR BRACKET
	EXIT SIGN, CEILING MOUNTED, ARROWS AS INDICATED ON PLANS
	EXIT SIGN, WALL MOUNTED, ARROWS AS INDICATED ON PLANS
P	POWER PACK, WATTSTOPPER PART # BZ-150
	CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER PART # DT-200
W	WALL MOUNTED OCCUPANCY SENSOR, WATTSTOPPER PART # DT-200, MOUNT AT 10' AFF
W	WALL SWITCH OCCUPANCY SENSOR, WATTSTOPPER PART # DW-100
	STANDARD TOGGLE SWITCH
3	THREE WAY TOGGLE SWITCH
K	KEYED TOGGLE SWITCH
D	0-10 VOLT DIMMER SWITCH, WATTSTOPPER PART # H4FBL3PTC

ELECTRICAL SYMBOL LEGEND

	120V, 20A DUPLEX RECEPTACLE, MOUNT 16" AFF.
	120V, 20A DUPLEX RECEPTACLE, ABOVE COUNTER HEIGHT, MOUNT 3" ABOVE COUNTER BACKSPLASH OR 42" AFF WHERE NO COUNTERS ARE SHOWN.
	120V, 20A QUADRUPLEX RECEPTACLE, MOUNT 16" AFF.
GFI	SUBSCRIPT INDICATES RECEPTACLE TO BE GROUND FAULT CIRCUIT INTERRUPTER TYPE
EWC	SUBSCRIPT INDICATES RECEPTACLE FOR WATER COOLER, PROVIDE 20A, 120V DUPLEX RECEPTACLE FLUSH MOUNTED, CONCEALED BEHIND WATER COOLER.
AV	SUBSCRIPT INDICATES RECEPTACLE FOR A/V DISPLAY/MONITOR, MOUNT 6'-0" AFF UNO.
WP	SUBSCRIPT INDICATES RECEPTACLE TO BE WEATHER PROOF
DL	SUBSCRIPT INDICATES RECEPTACLE TO BE DAMP LOCATION
	SPECIAL RECEPTACLE, TYPE AS NOTED
	WALL MOUNTED JUNCTION BOX, ROUGH-IN FLUSH WITH WALL SURFACE UNLESS NOTED OTHERWISE, HEIGHT AS NOTED.
J	JUNCTION BOX, SIZE PER NEC, MOUNTING LOCATION ABOVE ACCESSIBLE FINISHED CEILING UNLESS NOTED OTHERWISE.
J	JUNCTION BOX FOR CONNECTION OF BUILDING AUTOMATION SYSTEM POWER, FIELD COORDINATE ROUGH-IN LOCATION WITH BUILDING AUTOMATION SYSTEM INSTALLER.
	CORD REEL, TYPE AS NOTED
×	EQUIPMENT CONDUIT/CIRCUIT CONNECTION.
	FUSED SAFETY DISCONNECT SWITCH
	MOTOR RATED TOGGLE SWITCH
~	CONDUIT/CIRCUITING CONTINUATION
	PANELBOARD, 120/208V OR 120/240V AS SCHEDULED
	PANELBOARD, 277Y480V AS SCHEDULED
GECB	GROUNDING ELECTRODE CONDUCTOR BUSBAR, PROVIDE CHATSWORTH PRODUCTS, INC TYPE 10622-012 UNLESS NOTED OTHERWISE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFC	ABOVE FINISHED CEILING
UNO	UNLESS NOTED OTHERWISE
RT	NEMA 3R, RAIN TIGHT
4X	NEMA 4X, WEATHER PROOF STAINLESS STEEL
C	CONDUIT
EC	EMPTY CONDUIT

ELECTRICAL SYMBOL SCHEDULE NOTES:
1. MOUNTING HEIGHTS ARE TO BOTTOM OF DEVICE ROUGH-IN UNO.
2. BRANCH CIRCUIT BREAKERS FEEDING EWC CIRCUITS SHALL BE EQUIPPED WITH GFCI TRIP FEATURE UNLESS NOTED OTHERWISE.

CONDUIT ROUTING LEGEND

	CONDUIT RUN CONCEALED ABOVE FINISHED CEILING OR WITHIN WALLS
	CONDUIT RUN UNDER CAST-IN-PLACE CONCRETE OR BELOW FINISHED GRADE
	CONDUIT RUN EXPOSED, UNLESS NOTED OTHERWISE
	CONDUIT HOMERUN, ARROW HEADS INDICATE NUMBER OF CIRCUITS, SHORT TICK MARKS INDICATE PHASE CONDUCTORS, LONG TICK MARKS INDICATE NUMBER OF NEUTRAL CONDUCTORS, TICK MARK WITH HOOK INDICATES GROUNDING CONDUCTOR (THREE CIRCUIT HOMERUN RUN CONCEALED WITH DEDICATED NEUTRAL INDICATED SHOWN)

Panel Name: L100

VOLTAGE: 120/208 Wye, 3 Phase, 4 Wire
LOCATION: Space 8
SUPPLIED FROM:
PANELBOARD TYPE: Branch Circuit Panelboard

MAINS: 100 A MCB
AVAILABLE FAULT CURRENT: 3560 A
MINIMUM SYM IC: 10kA
FEED-THRU LUGS: No
TRIM: Surface
ENCLOSURE: Indoor

CKT	Circuit Description	#	C.	M	#	Ph	NEUT	GND	Trip	P	A (VA)		B(VA)		C(VA)		P	Trip	GND	NEUT	Ph	#	M	C.	#	Circuit Description	CKT
1	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1	360	0					2	20 A	--	--	--	--	--	--	1	Spare	2
3	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1			180	0													4
5	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1					180	0	2	20 A	--	--	--	--	--	--	1	Spare	6
7	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1	1200	0															8
9	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1			1200	0			2	20 A	--	--	--	--	--	--	1	Spare	10
11	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1					1200	0											12
13	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1	1200	500					1	20 A	#12	#12	#12	1	CU	3/4"	1	HVAC CONTROLS	14
15	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1			1200	0			1	20 A	--	--	--	--	--	--	1	Spare	16
17																0	1	20 A	--	--	--	--	--	--	1	Spare	18
19	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1	180	0					1	20 A	--	--	--	--	--	--	1	Spare	20
21	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1			180	0			1	20 A	--	--	--	--	--	--	1	Spare	22
23	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1					1200	0	1	20 A	--	--	--	--	--	--	1	Spare	24
25	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1	1200	0															26
27	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1			1200	0			2	30 A	--	--	--	--	--	--	1	Spare	28
29	Receptacle	1	3/4"	CU	1	#10	#10	#10	20 A	1					1200	360	1	20 A	#10	#10	#10	1	CU	3/4"	1	Receptacle	30
31	EF-3	1	3/4"	CU	1	#10	#10	#10	20 A	1	1200	--					1	--	--	--	--	--	--	--	1	Space	32
33	EF1	1	3/4"	CU	1	#10	#10	#10	20 A	1			1200	--			1	--	--	--	--	--	--	--	1	Space	34
35	EF3	1	3/4"	CU	1	#10	#10	#10	20 A	1					1200	--	1	--	--	--	--	--	--	--	1	Space	36
37	EF7	1	3/4"	CU	1	#10	#10	#10	20 A	1	1200	--					1	--	--	--	--	--	--	--	1	Space	38
39	S10	1	3/4"	CU	1	#10	#10	#10	20 A	1			1200	--			1	--	--	--	--	--	--	--	1	Space	40
41	S11	1	3/4"	CU	1	#10	#10	#10	20 A	1					1200	--	1	--	--	--	--	--	--	--	1	Space	42
									Total Connected Load (VA):		7040		6360		6540										
									Total Connected Amps:		59		53		55										

Load Classification	Connected Load	Demand Factor	Estimated Demand	Load Summary	
Receptacle	19440 VA	75.72%	14720 VA		
HVAC CONTROLS	500 VA	100.00%	500 VA	Total Conn. Load:	19940 VA
				Total Est. Demand:	15220 VA
				Total Est. Demand Current:	42 A

Notes:

Panel Name: H119

VOLTAGE: 480/277 Wye, 3 Phase, 4 Wire
LOCATION: BCT ENTRY E119A
SUPPLIED FROM:
PANELBOARD TYPE: Branch Cricuit Panelboard

MAINS: 225 A MCB
AVAILABLE FAULT CURRENT: 16253 A
MINIMUM SYM IC: 22kA
FEED-THRU LUGS: No
TRIM: Flush
ENCLOSURE: Indoor

CKT	Circuit Description	#	C.	M	#	Ph	NEUT	GND	Trip	P	A (VA)		B(VA)		C(VA)		P	Trip	GND	NEUT	Ph	#	M	C.	#	Circuit Description	CKT
1											21311	5000					1	30 A	#10	#10	#10	1	CU	3/4"	1	1-24	2
3	DHS-1	1	1 1/2"		3	#3	-	#6	110 A	3			21311	--													4
5															21311	--	1	--	--	--	--	--	--	--	1	Space	6
7											14411	--															8
9	DC-1	1	1 1/2"	CU	3	#4	-	#6	125 A	3			14411	--													10
11															14411	--	1	--	--	--	--	--	--	--	1	Space	12
13											14411	--															14
15	DC-2	1	1 1/2"		3	#4	-	#6	125 A	3			14411	--													16
17															14411	--	1	--	--	--	--	--	--	--	1	Space	18
19	Space	1	--	--	--	--	--	--	--	1	--	--					1	--	--	--	--	--	--	--	1	Space	20
21	Space	1	--	--	--	--	--	--	--	1			--	--			1	--	--	--	--	--	--	--	1	Space	22
23	Space	1	--	--	--	--	--	--	--	1					--	--	1	--	--	--	--	--	--	--	1	Space	24
25	Space	1	--	--	--	--	--	--	--	1	--	--					1	--	--	--	--	--	--	--	1	Space	26
27	Space	1	--	--	--	--	--	--	--	1			--	--			1	--	--	--	--	--	--	--	1	Space	28
29	Space	1	--	--	--	--	--	--	--	1					--	--	1	--	--	--	--	--	--	--	1	Space	30
31	Space	1	--	--	--	--	--	--	--	1	--	--					1	--	--	--	--	--	--	--	1	Space	32
33	Space	1	--	--	--	--	--	--	--	1			--	--			1	--	--	--	--	--	--	--	1	Space	34
35	Space	1	--	--	--	--	--	--	--	1					--	--	1	--	--	--	--	--	--	--	1	Space	36
37	Space	1	--	--	--	--	--	--	--	1	--	--					1	--	--	--	--	--	--	--	1	Space	38
39	Space	1	--	--	--	--	--	--	--	1			--	--			1	--	--	--	--	--	--	--	1	Space	40
41	Space	1	--	--	--	--	--	--	--	1					--	--	1	--	--	--	--	--	--	--	1	Space	42
									Total Connected Load (VA):		55132		50132		50132										
									Total Connected Amps:		199		181		181										

Load Classification	Connected Load	Demand Factor	Estimated Demand	Load Summary	
Motor	86464 VA	112.50%	97272 VA		
Electric Heat	5000 VA	100.00%	5000 VA	Total Conn. Load:	155397 VA
Heat Pump	63933 VA	100.00%	63933 VA	Total Est. Demand:	166205 VA
				Total Est. Demand Current:	200 A

Notes:

PANELBOARD GENERAL NOTES:

1. FLUSH MOUNTED PANELBOARDS SHALL HAVE (4)3/4" E.C. STUBBED UP TO ACCESSIBLE CEILING SPACE.
2. MINIMUM CONDUIT SIZE SHALL BE 3/4"C. CIRCUITS SHALL BE GROUPED AS INDICATED ON PLANS, COMBINATIONS OTHER THAN THOSE SHOWN ON PLANS ARE NOT PERMITTED WITHOUT APPROVAL BY ARCHITECT/ENGINEER.
3. NEUTRAL CONDUCTORS SHALL BE IDENTIFIED VIA COLORED STRIPE MATCHING UNGROUNDED CONDUCTOR (PHASE) WHERE GROUPED WITH OTHER CIRCUITS.
4. CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
5. CIRCUIT BREAKERS FEEDING EWC SHALL BE FURNISHED WITH GFCI TRIP FEATURE.

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SOUTH CAROLINA BUFORD GOFF & ASSOCIATES, INC. No. 000022 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN CURTIS MELSON No. 14135 4/17/2026

AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG
GMC: ACOL240010

ELECTRICAL DETAILS AND SCHEDULES

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DEMOLITION KEYNOTES

A REMOVE EXISTING AREA LIGHTING, CAPTURE EXISTING LIGHTING CIRCUIT FOR RECONNECTION OF NEW LIGHTING.

B REMOVE EXISTING AREA LIGHTING SWITCHES, PROVIDE NEW SWITCHES IN EXISTING ROUGHIN LOCATIONS WHERE PRATICAL

DEMOLITION NOTES

1. Demolition notes are based on casual field observations and existing record documents. Report discrepancies to architect/engineer before disturbing existing installation. Refer to section 26 specification "ELECTRICAL DEMOLITION" for additional requirements.
2. Remove existing building electrical systems from walls, ceilings and other finishes scheduled for demolition. Remove existing LED troffers in ceilings scheduled for demolition, provide screws at each corner to hold existing retrofit kits to fixture housing, protect and store for reinstallation in new ceilings.
3. Verify that abandoned wiring and equipment serve only abandoned facilities.
4. Verify field measurements and circuiting arrangements prior to commencement of work.
5. Coordinate outages of all building electrical systems with owner.
6. Provide temporary wiring and connections to maintain all existing building electrical systems affected by demolition and renovation work.
7. Remove all abandoned wiring and equipment and repair finishes to match adjacent finishes.
8. Reconnect all remaining existing building electrical systems interrupted by demolition.
9. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with wall and floors, patch finishes and firestop.
10. Relocate existing electrical system conduit raceways as required to facilitate installation of systems installed by other divisions of work. Field coordinate relocation and extension of systems.
11. Remove and reinstall existing ceiling tiles as required to install conduits above finished ceilings.
12. Portions of the existing conduit systems may be reused provided all of the following conditions are met:
    a. The existing equipment, conduit and/or wiring systems are installed in accordance with the requirements for new materials listed in the specifications, and as indicated on the plans.
    b. Any relocation of existing feeders and conduits to accommodate new construction (i.e., ductwork, new ceiling heights, etc.) which at the convenience of the contractor are being reused shall be relocated as necessary without additional cost to the owner.

A1 **LEVEL ONE FLOOR PLAN - LIGHTING DEMOLITION**
SCALE: 1/8" = 1'-0"

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SOUTH CAROLINA PROFESSIONAL ENGINEER BRIAN CURTIS NELSON No. 14135 4/17/2026

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FLOOR PLANS - LIGHTING DEMOLITION

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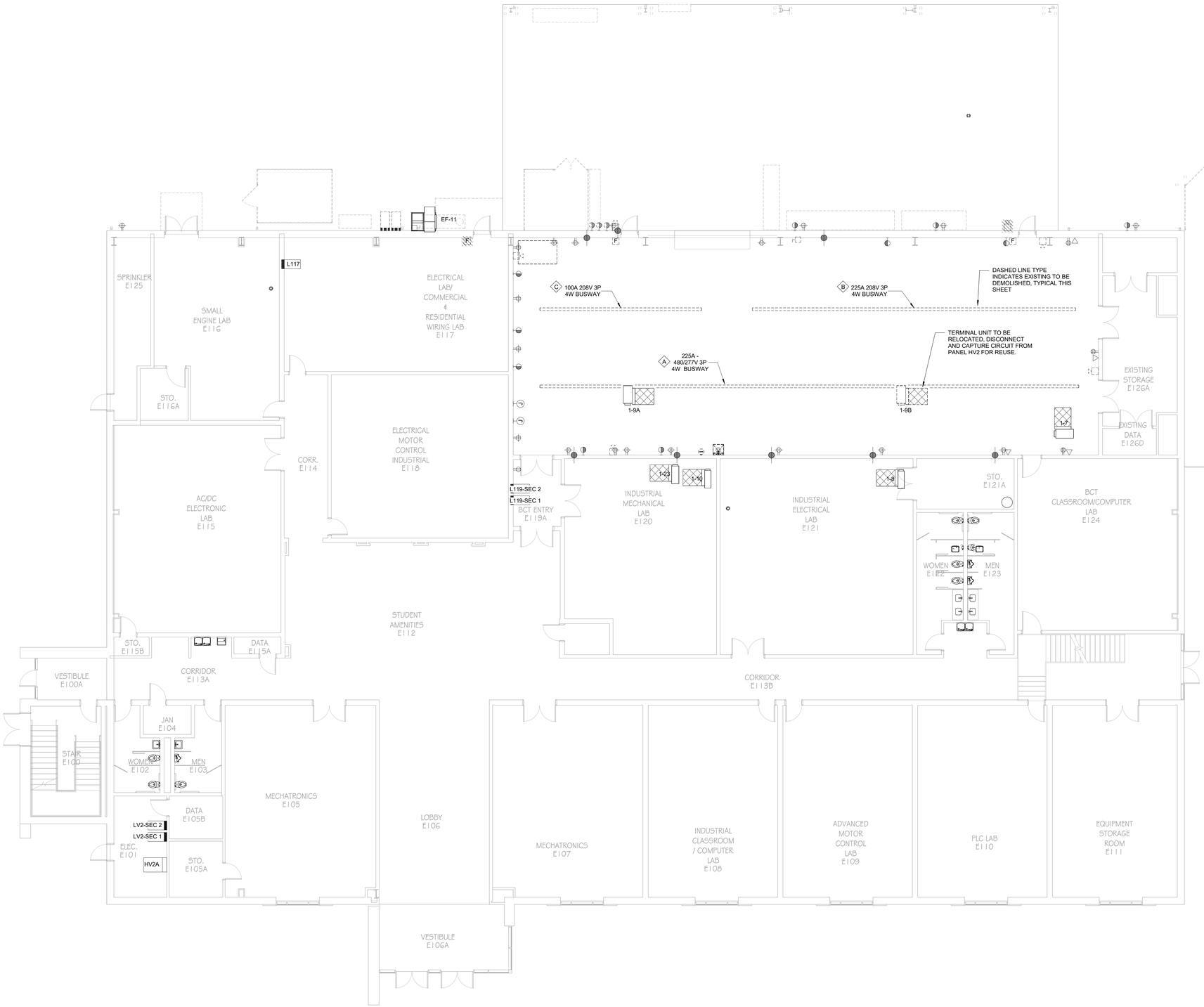

A1 LEVEL ONE FLOOR PLAN - ELECTRICAL DEMOLITION

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

DEMOLITION KEYNOTES

- (A) CAPTURE FEEDER FROM HV2 TO BUSWAY FOR REUSE.
- (B) REMOVE FEEDER FROM LV2 TO BUSWAY.
- (C) CAPTURE FEEDER FROM LV2 BUSWAY, REMOVE CONDUCTORS.

DEMOLITION NOTES

1. Demolition notes are based on casual field observations and existing record documents. Report discrepancies to architect/engineer before disturbing existing installation. Refer to section 26 specification "ELECTRICAL DEMOLITION" for additional requirements.
2. Remove existing building electrical systems from walls, ceilings and other finishes scheduled for demolition. Remove existing LED troffers in ceilings scheduled for demolition, provide screws at each corner to hold existing retrofit kits to fixture housing, protect and store for reinstallation in new ceilings.
3. Verify that abandoned wiring and equipment serve only abandoned facilities.
4. Verify field measurements and circuiting arrangements prior to commencement of work.
5. Coordinate outages of all building electrical systems with owner.
6. Provide temporary wiring and connections to maintain all existing building electrical systems affected by demolition and renovation work.
7. Remove all abandoned wiring and equipment and repair finishes to match adjacent finishes.
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    a. The existing equipment, conduit and/or wiring systems are installed in accordance with the requirements for new materials listed in the specifications, and as indicated on the plans.
    b. Any relocation of existing feeders and conduits to accommodate new construction (i.e., ductwork, new ceiling heights, etc.) which at the convenience of the contractor are being reused shall be relocated as necessary without additional cost to the owner.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 14135 BRIAN CURTIS NELSON 4/17/2026

AMSC EXPANSION - AIRPORT
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FLOOR PLANS - ELECTRICAL DEMOLITION

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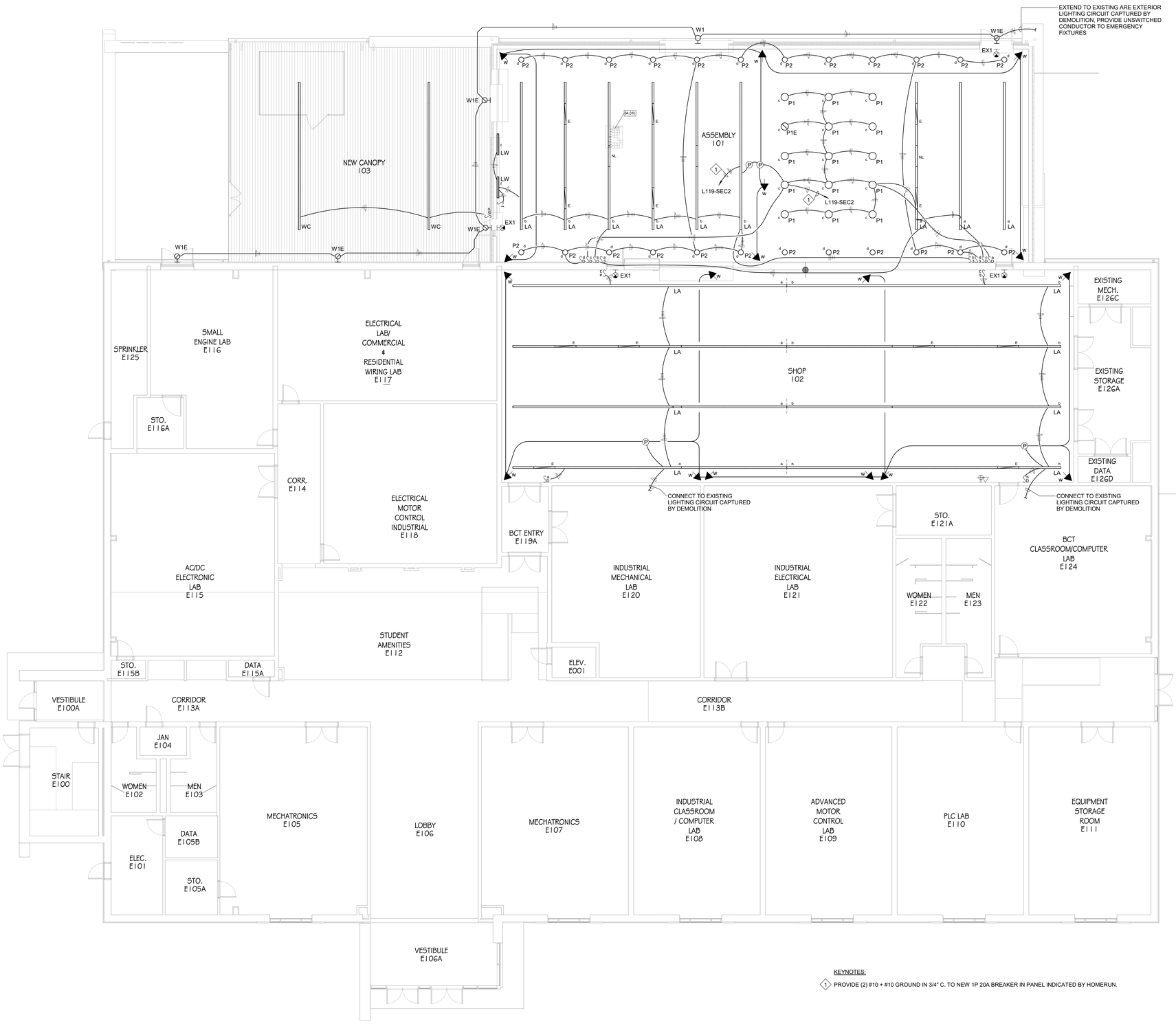

KEYNOTES:

1. PROVIDE (2) #10 + #10 GROUND IN 3/4" C. TO NEW 1P 20A BREAKER IN PANEL INDICATED BY HOMERUN.

A1 LEVEL ONE FLOOR PLAN - LIGHTING

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

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER BRYAN CURTIS NELSON No. 14135 4/17/2026

AMSC EXPANSION - AIRPORT
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GMC: ACOL240010

FLOOR PLANS - LIGHTING

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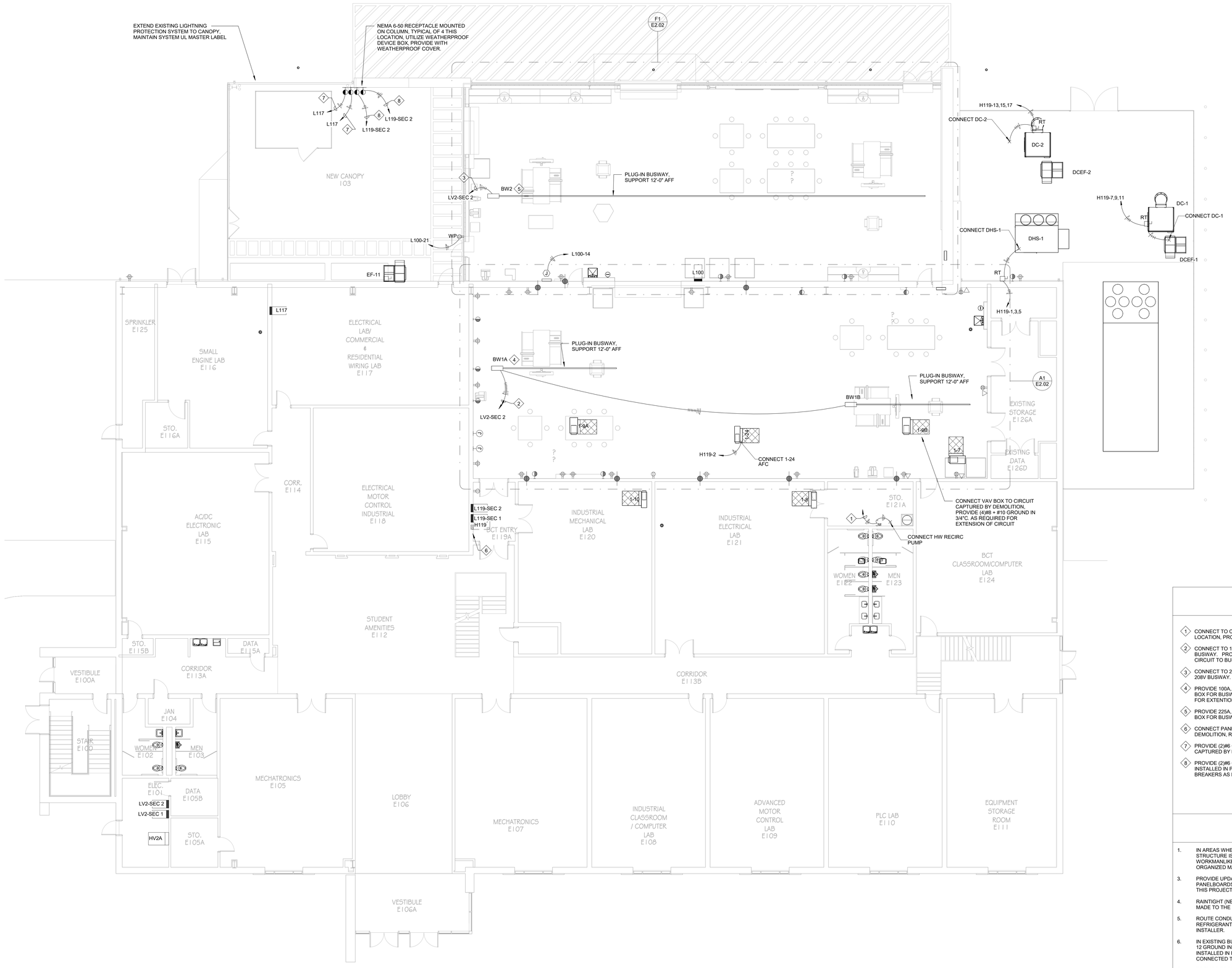

A1 LEVEL ONE FLOOR PLAN - ELECTRICAL

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

KEYNOTES

1. CONNECT TO CIRCUIT FEEDING EXISTING RECIRCULATION PUMP AT THIS LOCATION, PROVIDE (3)#12 IN 3/4"C. FOR CONNECTION.
2. CONNECT TO 100A 3 POLE CIRCUIT BREAKER FREED BY DEMOLITION OF 208V BUSWAY. PROVIDE (4)#1 + #8 GROUND IN 1-1/2"C FOR CONNECTION. EXTEND CIRCUIT TO BUSWAY IN 102C.
3. CONNECT TO 225A 3 POLE CIRCUIT BREAKER FREED BY DEMOLITION OF 225A 208V BUSWAY. PROVIDE (4)#4/0 + #4 GROUND IN 2-1/2" C FOR CONNECTION.
4. PROVIDE 100A, 208/120V 3 PHASE 4 WIRE, 10 kAIC BUSWAY WITH CONNECTION BOX FOR BUSWAYS BD1A AND BD1B. PROVIDE LUGS IN BD1A CONNECTION BOX FOR EXTENTION OF FEEDER CIRCUIT TO BD1B. SEE SPECIFICATION 26 2513
5. PROVIDE 225A, 208/120V 3 PHASE 4 WIRE, 10 kAIC BUSWAY WITH CONNECTION BOX FOR BUSWAY BD2. SEE SPECIFICATION 26 2513.
6. CONNECT PANELBOARD TO 225A 480/277V BUS DUCT CIRCUIT CAPTURED BY DEMOLITION, REROUTE AS REQUIRED FOR CONNECTION.
7. PROVIDE (2)#6 + #10 GROUND IN 3/4"C. TO A 50A 2 POLE CIRCUIT BREAKER CAPTURED BY DEMOLITION IN PANELBOARD INDICATED BY HOMERUN.
8. PROVIDE (2)#6 + #10 GROUND IN 3/4"C. TO A 50A 2 POLE CIRCUIT BREAKER INSTALLED IN PANELBOARD INDICATED BY HOMERUN, REMOVE SPARE CIRCUIT BREAKERS AS REQUIRED FOR INSTALLATION OF CIRCUIT BREAKER.

GENERAL NOTES

1. IN AREAS WHERE THERE ARE NO LAYIN CEILINGS (E.G., EXPOSED STRUCTURE IS VISIBLE), CONDUIT SHALL BE ROUTED IN A NEAT AND WORKMANLIKE MANNER. CARE SHALL BE TAKEN TO INSTALL CONDUIT IN AN ORGANIZED MANNER.
3. PROVIDE UPDATED TYPE SET PANELBOARD SCHEDULES FOR EXISTING PANELBOARDS SERVING CIRCUITS AFFECTED OR ADDED BY THE WORK OF THIS PROJECT.
4. RAINTIGHT (NEMA 3R) DISCONNECTS SHALL HAVE CONDUIT PENETRATIONS MADE TO THE BOTTOM OR LOWER SIZES OF THE DISCONNECTS.
5. ROUTE CONDUITS SERVING OUTDOOR CONDENSER UNITS WITH REFRIGERANT PIPING, COORDINATE ROUGH-IN WITH CONDENSER UNIT INSTALLER.
6. IN EXISTING BUILDING AREAS UNLESS NOTED OTHERWISE PROVIDE (2)#12 + # 12 GROUND IN 3/4"C. CONNECTED TO A 20A 1 POLE CIRCUIT BREAKER INSTALLED IN PANEL INDICATED BY HOMERUN FOR 120V BRANCH CIRCUITS CONNECTED TO EXISTING PANELBOARDS.
7. PROVIDE DEDICATED NEUTRALS WITH SHARED GROUND WERE HOMERUNS TO EXISTING PANELBOARDS ARE SHOWN GROUPED TOGETHER.
8. UNLESS NOTED OTHERWISE WITHIN THE CONTRACT DOCUMENTS COORDINATE CUTTING AND PATCHING OF WALL FINISHES FOR FLUSH MOUNTED INSTALLATION OF PANELBOARDS, WIRING DEVICES AND CONCEALED CONDUIT WITH DIVISION 9 INSTALLER. RESTORE FINISH TO MATCH ADJACENT CONDITIONS.

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AMSC EXPANSION - AIRPORT
1260 LEXINGTON DRIVE, WEST
COLUMBIA, SC, 29170

STATE PROJECT: H59-N301-PG
GMC: ACOL240010

FLOOR PLANS - ELECTRICAL

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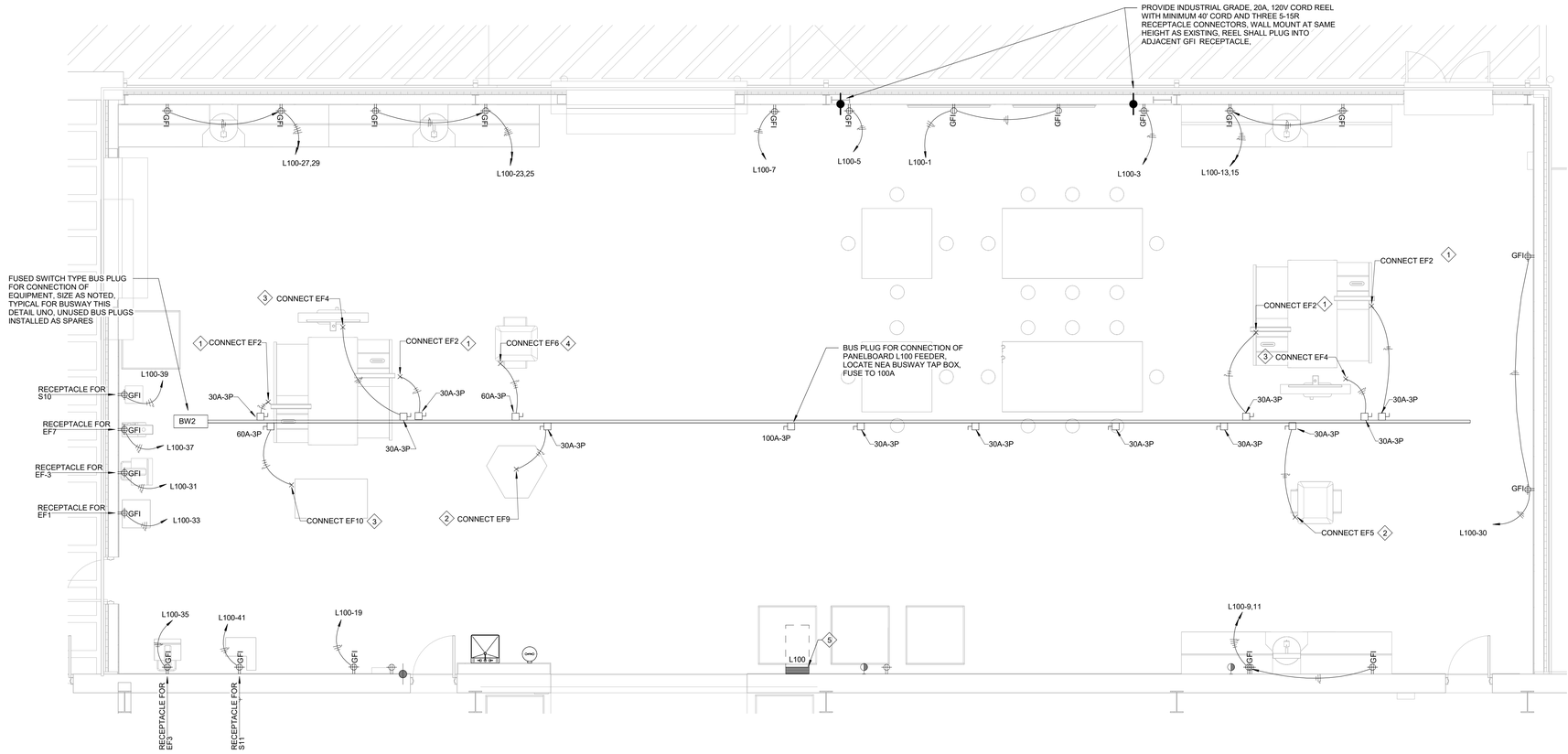

F1 ENLARGED FLOOR PLAN - ASSEMBLY 100 - ELECTRICAL

SCALE: 1/4" = 1'-0"

A1 ENLARGED FLOOR PLAN - SHOP SUITE 102 - ELECTRICAL

SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE UPDATED TYPE SET PANELBOARD SCHEDULES FOR EXISTING PANELBOARDS SERVING CIRCUITS AFFECTED OR ADDED BY THE WORK OF THIS PROJECT.
2. IN EXISTING BUILDING AREAS UNLESS NOTED OTHERWISE PROVIDE (2)#12 + #12 GROUND IN 3/4"C. CONNECTED TO A 20A 1 POLE CIRCUIT BREAKER INSTALLED IN PANEL INDICATED BY HOMERUN FOR 120V BRANCH CIRCUITS CONNECTED TO EXISTING PANELBOARDS.
3. PROVIDE DEDICATED NEUTRALS WITH SHARED GROUND WERE HOMERUNS TO EXISTING PANELBOARDS ARE SHOWN GROUPED TOGETHER.
4. PROVIDE SELF-TIGHTENING CABLE SUPPORT GRIPS (BUS DROP GRIPS) FOR BUS DROP CABLE FED BY BUS PLUGS AND JUNCTION BOXES WITHIN 6' OF CABLE LENGTH AT TERMINATION BUS DROP CABLE SHALL DROP VERTICALLY AT POINT OF SUPPORT.
5. PROVIDE STRAIN RELIEFS FOR BUS DROP CABLES WHERE CABLES TERMINATE AT BUS PLUGS, JUNCTION BOXS OR EQUIPMENT CONNECTION BOXES.
6. PROVIDE HARDWARE RECOMMENDED BY BUS DUCT MANUFACTURER TO SUPPORT BUS DROP GRIPS FROM BOTTOM OF BUS WAY AT BUS PLUGS WHERE BUS DROPS ARE BELOW BUS DUCT.
7. LOCATIONS OF PENDANT RECEPTACLES AND BUS DROP CABLE DROPS SHALL BE COORDINATED WITH EQUIPMENT INSTALLER AND OTHER TRADES OF WORK PRIOR TO ROUGH-IN, COORDINATE DROP LOCATIONS FOR EQUIPMENT TO MINIMIZE CORD INTERFENCE WITH OPERATION OF THE EQUIPMENT.
8. PROVIDE ADDITIONAL UNISTRUT SPANNING BETWEEN STUCTURE AT CABLE DROP LOCATIONS TO LOCATE DROPS AT EQUIPMENT SERVED.
9. PROVICE ADEQUATE SLACK CABLING TO ALLOW RELOCATION OF EQUIPMENT NON-FIXED EQUIPMENT FOR REAR ACCESS AND SERVICE.
10. UNLESS NOTED OTHERWISE WITHIN THE CONTRACT DOCUMENTS COORDINATE CUTTING AND PATCHING OF WALL FINISHES FOR FLUSH MOUNTED INSTALLATION OF PANELBOARDS, WIRING DEVICES AND CONCEALED CONDUIT WITH DIVISION 9 INSTALLER. RESTORE FINISH TO MATCH ADJACENT CONDITIONS.

KEYNOTES

1. PROVIDE DROP FROM BUSWAY TO EQUIPMENT AND CONNECT. CONNECTION SHALL BE VIA INDUSTRIAL WATERTIGHT L6-20 PLUG AND CONNECTOR FED FROM BUS PLUG WITH 2 CONDUCTOR #10 + GROUND BUS DROP CABLE. FUSE CONNECTED POLES IN BUS PLUG TO 20A.
2. PROVIDE DROP FROM BUSWAY TO EQUIPMENT AND CONNECT. CONNECTION SHALL BE VIA INDUSTRIAL WATERTIGHT L6-30 PLUG AND CONNECTOR FED FROM BUS PLUG WITH 2 CONDUCTOR #10 + GROUND BUS DROP CABLE. FUSE CONNECTED POLES IN BUS PLUG TO 30A.
3. PROVIDE DROP FROM BUSWAY TO EQUIPMENT AND CONNECT. CONNECTION SHALL BE VIA INDUSTRIAL WATERTIGHT L5-20 PLUG AND CONNECTOR FED FROM BUS PLUG WITH 2 CONDUCTOR #10 + GROUND BUS DROP CABLE. FUSE CONNECTED POLES BUS PLUG TO 20A.
4. PROVIDE DROP FROM BUSWAY TO EQUIPMENT AND CONNECT. CONNECTION SHALL BE VIA 4 WIRE 60A, INDUSTRIAL PIN AND SLEEVE PLUG AND CONNECTOR FED FROM BUS PLUG WITH 3 CONDUCTOR #8 + GROUND BUS DROP CABLE. FUSE BUS PLUG TO 60A.
5. PROVIDE (4)#1 + #8 GROUND IN 2"C TO BUS PLUG INDICATED ON BW2.

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STATE PROJECT: H59-N301-PG
GMC: ACOL240010

ENLARGED SHOP PLANS - ELECTRCIAL

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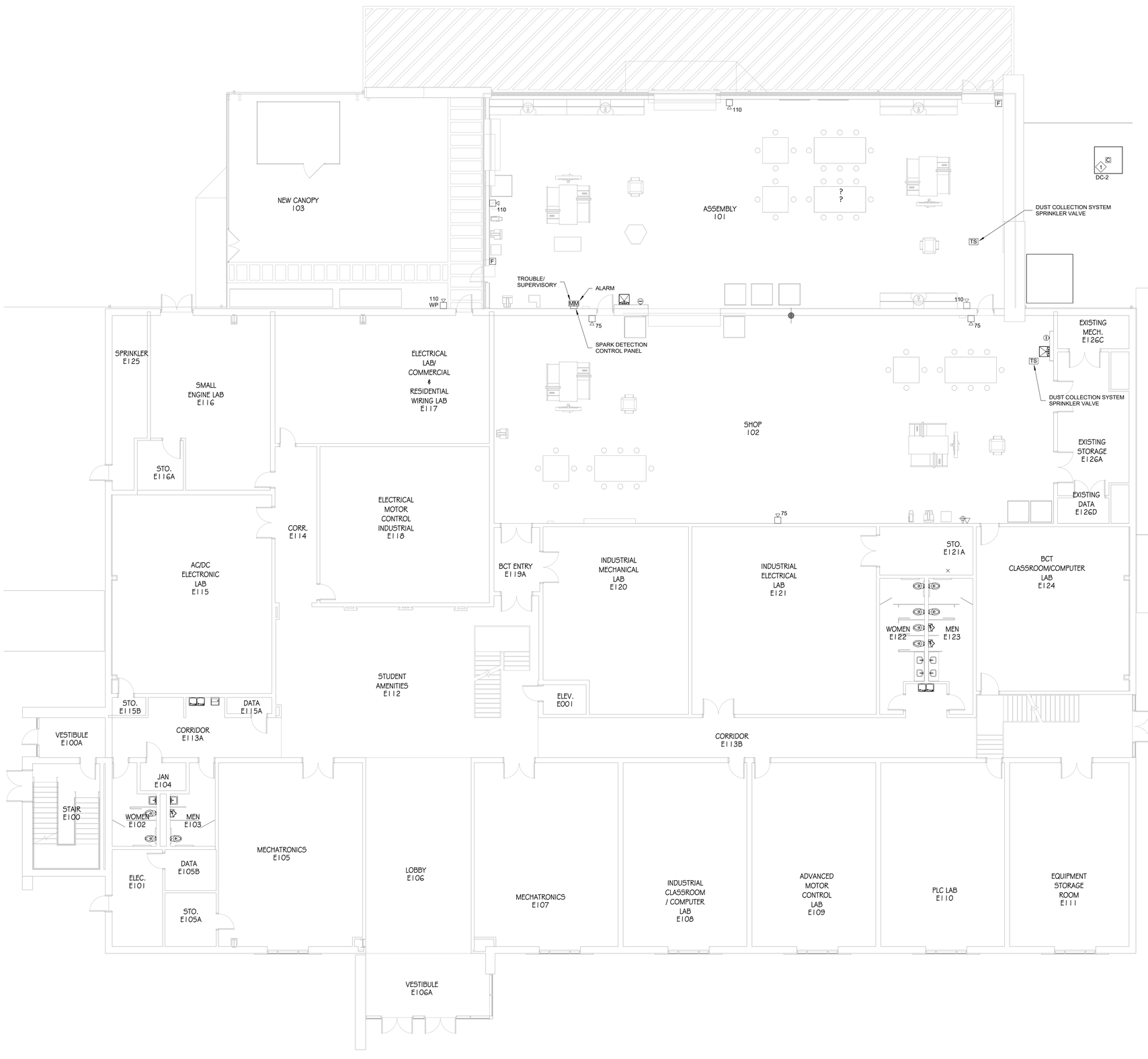

FIRE ALARM SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FPE	FIRE ALARM POWER EXTENDER PANEL(S)
FAA	FIRE ALARM ANNUNCIATOR PANEL (48" TO HIGHEST CONTROL SWITCH), FLUSH MOUNTED
110c	FIRE ALARM HORN/STROBE, 96" AFF TO TOP OF BOX. SUBSCRIPT INDICATES CANDELA RATING.
WP	FIRE ALARM BELL, 96" AFF TO TOP OF BOX. (NOTE 4)
110c	FIRE ALARM STROBE, 96" AFF TO TOP OF BOX. SUBSCRIPT INDICATES CANDELA RATING.
30cd	CEILING HORN/STROBE. SUBSCRIPT INDICATES STROBE CANDELA RATING.
99	CEILING MOUNTED STROBE. SUBSCRIPT INDICATES CANDELA RATING.
SD	SMOKE DETECTOR (NOTES 2 & 3)
HD	HEAT DETECTOR
DD	DUCT DETECTOR
A	DUCT SMOKE DETECTOR REMOTE TEST SWITCH/ALARM INDICATOR
R	SPDT PAM OR RIB RELAY
C	ADDRESSABLE CONTROL MODULE
M	ADDRESSABLE MONITORING MODULE
DH	MAGNETIC SMOKE DOOR HOLD OPEN DEVICE
TS	TAMPER SWITCH. PROVIDE (1) MONITORING MODULE PER SWITCH
FS	FLOW SWITCH. PROVIDE (1) MONITORING MODULE PER SWITCH
PIV	POST INDICATOR VALVE
UON	UNLESS OTHERWISE NOTED
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
WP	WEATHERPROOF DEVICE (PER U.L.)
1	KEYNOTE LABEL
J	JUNCTION BOX
	120V BRANCH CIRCUIT HOME RUN. TIC MARKS INDICATE NUMBER OF CONDUCTORS.

SYMBOL SCHEDULE NOTES:

1. STROBES SHALL BE 15cd WHERE NO CANDELA RATING SUBSCRIPT IS SHOWN.
2. LOCATE SMOKE DETECTOR AT FACP PANEL, FPE'S WITHIN 5'-0" OF EQUIPMENT.
3. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 3'-0" FROM THE EDGE OF THE NEAREST HVAC SUPPLY OR RETURN AIR GRILLE.
4. FIRE ALARM BELL DEDICATED FOR SPRINKLER WATER FLOW ALARM. WIRE/CONFIGURE AS NON-SILENCEABLE AND SUPERVISED.

GENERAL FIRE ALARM NOTES:

1. DEVICES SHOWN ARE NEW, UNLESS INDICATED OTHERWISE, AND SHALL BE CONNECTED TO NEW CIRCUITS/WIRING FROM THE EXISTING FIRE FIRE ALARM SYSTEM .
2. ALL NEW STROBES SHALL BE SYNCHRONIZED WITH EXISTING STROBES.
3. VERIFY EXISTING FACP LOCATION (NOT SHOWN) IN THE FIELD.
4. PROVIDE TWO (2) SPRINKLER SYSTEM TAMPER SWITCH CONNECTIONS (NOT SHOWN) FOR SUPERVISION OF SPRINKLER HEADS INSTALLED IN DUST COLLECTION DUCTS. COORDINATE ROUGH-IN LOCATION IN FIELD.
5. ALL WORK SHOWN IS BASE BID WORK UNLESS OTHERWISE NOTED.

FIRE ALARM KEYNOTES:

1. PROVIDE DUST COLLECTION UNIT SHUTDOWN CONNECTION. PROGRAM SHUTDOWN BASED ON GENERAL ALARM.

A1 LEVEL ONE FLOOR PLAN - FIRE ALARM

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

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FLOOR PLANS - FIRE ALARM RENOVATION

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