PROGRESS SET

GEORGETOWN COUNTY RE-ENTRY FACILITY

GEORGETOWN COUNTY
VOLUME 2

611315

VICINITY MAP

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LOCATION MAP

N

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DRAWING INDEX - VOLUME 1

DRAWING INDEX - VOLUME 2

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

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RECORD DRAWINGS

THESE DRAWINGS HAVE BEEN PREPARED BY MODIFYING THE CONSTRUCTION DRAWINGS, WHICH WERE PART OF THE CONTRACT DOCUMENTS AND ARE HEREIN DESIGNATED RECORD DRAWINGS. MODIFICATIONS ARE BASED UPON INFORMATION FURNISHED BY [illegible] AND DEVIATIONS BY CONTRACTOR FROM THE ORIGINAL CONTRACT DOCUMENT [illegible] INFORMATION FURNISHED BY CONTRACTOR. NEITHER OWNER NOR ARCHITECT ARE RESPONSIBLE FOR ANY ERRORS OR [illegible] INFORMATION HEREIN FOR ANY PURPOSE IS WARNED AND CAUTIONED TO VERIFY AND TO CONFIRM ANY SUCH INFORMATION BY ACTUAL OBSERVATION AND MEASURING AS THEY DEEM NECESSARY.

PROGRESS PRINT NOT FOR CONSTRUCTION

GEORGETOWN COUNTY RE-ENTRY FACILITY

611315

GEORGETOWN COUNTY

PROJECT NO: 611315
DATE: FEBRUARY 26, 2024

REVISIONS

DATE	DESCRIPTION

COVER - VOLUME 2

CODE DATA SUMMARY

THIS SUMMARY DOES NOT IDENTIFY ALL APPLICABLE CODE SECTIONS AND IS A SUMMARY OF SELECTED CODE SECTIONS ONLY. CODE SECTIONS NOT IDENTIFIED OR OTHERWISE INDICATED DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND REGULATIONS TO COMPLETE THE WORK.

STATE OF SOUTH CAROLINA BUILDING CODE SUMMARY

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ADMINISTRATION

APPLICABLE CODES, STANDARDS AND REFERENCES	YEAR
SOUTH CAROLINA BUILDING CODE	2021
SOUTH CAROLINA FIRE CODE	2021
SOUTH CAROLINA PLUMBING CODE	2021
SOUTH CAROLINA MECHANICAL CODE	2021
SOUTH CAROLINA FUEL AND GAS CODE	2021
NATIONAL ELECTRICAL CODE (NFPA 70) WITH SC MODIFICATIONS	2020
INTERNATIONAL ENERGY CONSERVATION CODE (ENERGY STANDARD ACT)	2009
ICC/ANSI A117.1	2017 Edition

BUILDING DATA

BUILDING PROJECT TYPE	■ NEW BUILDING ☐ ADDITION ☐ RENOVATION
PRIMARY OCCUPANCY CLASSIFICATION	I-3 : INSTITUTIONAL [Section 308.4.3 Condition 3, Section 308.4.4 Condition 4]
OTHER OCCUPANCIES CLASSIFICATION	B : BUSINESS A-3: ASSEMBLY S1 : MODERATE-HAZARD STORAGE S2 : LOW-HAZARD STORAGE [Sections: 304, 311]
SPECIAL USES (CHAPTER 4)	☐ NO ■ YES CHAPTER 4, SECTIONS 406, 408, 414
CONSTRUCTION TYPE	IB - I-3 OCCUPANCY, BUSINESS OCCUPANCY
SPRINKLERS	☐ NO ☐ PARTIAL ■ YES ■ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
STANDPIPES	☐ NO ■ YES CLASS ☐ I ☐ II ☐ III ■ WET ☐ DRY
FIRE DISTRICT	■ NO ☐ YES **FLOOD HAZARD AREA:** ■ NO ☐ YES
SPECIAL INSPECTIONS REQUIRED	☐ NO ■ YES
ACCESSORY OCCUPANCIES [Sections 508.2]	
INCIDENTAL USES [Table 509]	GROUP I-3 CELLS - 1 HR. PROTECTION
MIXED OCCUPANCY	☐ NO ■ YES **DESIGN OCCUPANCY CLASSIFICATION:** I-3
SEPARATED MIXED USE [Sections 508, 508.4]	■ NO ☐ YES SEPARATION N/A HR.
NON-SEPARATED MIXED USE [Sections 508.3]	☐ NO ■ YES
RISK CATEGORY	☐ I ☐ II ■ III ☐ IV
SEISMIC DESIGN CATEGORY	D

GROSS BUILDING AREA

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUBTOTAL
FIRST FLOOR B	N/A	9,538	9,538
FIRST FLOOR A-3	N/A	3,627	3,627
FIRST FLOOR I-3	N/A	24,693	24,693
FIRST FLOOR S-1	N/A	946	946
FIRST FLOOR INMATE /DAYROOM / TIER - I-3	N/A	37,959	37,959
FIRST FLOOR UPPER TIER - I-3	N/A	7,242	7,242
CONTROL LEVEL 1 (ABV. FF) - I-3	N/A	1,099	1,099
TOTAL			85,104

ALLOWABLE AREA

STORY LEVEL	DESCRIPTION AND USE	BUILDING AREA PER STORY	ALLOWABLE AREA FACTOR [Table 506.2]	AREA FRONTAGE INCREASE [Table 506.3.1, 506.3.3]	ALLOWABLE AREA PER STORY	ALLOWABLE LARGER THAN ACTUAL
STORY 1	B - TYPE IB	9,583	UL	0.75	UL	YES
STORY 1	A-3 - TYPE IB	3,627	UL	0.75	UL	YES
STORY 1	S-1 - TYPE IB	946	UL	0.75	UL	YES
STORY 1	I-3 - TYPE IB	69,894	UL	0.75	UL	YES
STORY 2	I-3 - TYPE IB	1,099	UL	0.75	UL	YES
TOTAL BUILDING AREA	85,104					YES

1. Unlimited area applicable under conditions of Section 507.
2. Maximum Building Area = (total number of stories in the building) x (allowable area per story or unlimited)

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET, (ACTUAL) [Table 504.3]	I-3= 180'	50'	N/A
BUILDING HEIGHT IN STORIES [Table 504.4]	I-3= 5	4	N/A

1. Code reference provided only if "Shown on Plans" quantity is not based on Table 504.3 or 504.4

AREA DETERMINATION		MAXIMUM BUILDING AREA	
FULLY SPRINKLERED		UNLIMITED	

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

BUILDING ELEMENT	CODE REFERENCE	REQUIRED RATING	
CONTRUCTION TYPE		**IB**	
PRIMARY STRUCTURAL FRAME	TABLE 601	2 HRS.	
EXTERIOR BEARING WALLS	TABLE 601	2 HRS.	
INTERIOR BEARING WALLS	TABLE 601	2 HRS., 1 HR at Note (a)	
EXTERIOR NONBEARING WALLS AND PARTITIONS	TABLE 705.5	0 HRS.	
INTERIOR NONBEARING WALLS AND PARTITIONS	TABLE 601	0 HRS.	
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	TABLE 601	2 HRS.	
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	TABLE 601	1 HRS	
FIRE WALLS	TABLE 706.4	N/A	
FIRE BARRIERS	TABLE 508.4	1 HR.	
SHAFT ENCLOSURES (LESS THAN 4 STORIES)	TABLE 713.4, 408.5.2	1 HR.	
SHAFT ENCLOSURES (MORE THAN 4 STORIES)	TABLE 713.4	N/A	
EXIT ENCLOSURES (LESS THAN 4 STORIES)	1023.2	1 HR.	
EXIT ENCLOSURES (MORE THAN 4 STORIES)	1023.2	N/A	
FIRE PARTITIONS	708.3	1 HR.	
SMOKE BARRIERS	709.3, 408.6	1 HR.	
SMOKE PARTITIONS	710.3	0 HRS.	
CORRIDORS	TABLE 1020.2	1 HR.	
HORIZONTAL ASSEMEBLIES	711.2.4.1, TABLE 707.3.10	2 HR.	
HORIZONTAL EXITS	1026.1	2 HR.	

1. Fire resistance ratings of building elements are shown on Life Safety Plans.

LIFE SAFETY PLAN

LIFE SAFETY PLAN REQUIREMENTS

FIRE AND/OR SMOKE RATED WALL LOCATIONS	■	LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY	☐
ASSUMED AND REAL PROPERTY LINE LOCATIONS	☐	LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS	☐
EXTERIOR WALL OPENING WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES	☐	LOCATION OF EMERGENCY ESCAPE WINDOWS	☐
OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION	■	THE SQUARE FOOTAGE OF EACH FIRE AREA	☐
OCCUPANT LOAD FOR EACH AREA	■	THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-3	☐
EXIT SIGN LOCATIONS	■		
COMMON PATH OF TRAVEL DISTANCES	■	NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE	☐
CLEAR EXIT WIDTHS FOR EACH EXIT DOOR	■		
MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH	■		
ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR	■		
DEAD END LENGTHS	■		
A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/ CEILING AND/OR ROOF STRUCTURE IS PROVIDED TO PURPOSES OF OCCUPANCY SEPARATION	☐		
LOCATION OF DOORS WITH PANIC HARDWARE	■		

SEE PROJECT MANUAL FOR COMPREHENSIVE LIST OF SPECIAL INSPECTIONS. STATEMENTS OF SPECIAL INSPECTIONS SHALL BE PREPARED IN ACCORDANCE WITH SECTION 1704.3

SPECIAL INSPECTIONS

1705.4.1 GLASS UNIT MASONRY AND MASONRY VENEER IN RISK CATEGORY IV.
Special inspections and tests for glass unit masonry or masonry veneer designed in accordance with Section 2110 or Chapter 14, respectively, where they are part of a structure classified as Risk Category IV.

1705.13.5 ARCHITECTURAL COMPONENTS
Periodic special inspection is required for the erection and fastening of exterior cladding, interior and exterior nonbearing walls and interior and exterior *veneer* in structures assigned to Seismic Category D, E, or F.

1705.13.5.1 ACCESS FLOORS
Periodic special inspection is required for the anchorage of access floors in structures assigned to Seismic Category D, E, or F. Manual and automatic fire alarm system shall be provided.

1705.13.7 STORAGE RACKS
Steel storage racks and steel cantilevered storage racks that are 8 feet in height of greater and assigned to Seismic Design Category D, E, or F shall be provided with periodic special inspections as required by Table 1705.13.7

[BF] 1705.15 SPRAYED FIRE-RESISTANT MATERIALS
Special inspections and test of sprayed fire-resistant materials applied to floor, roof and wall assemblies and structural members shall be performed in accordance with Sections 1705.15.1 through 1705.15.6.

1705.16 MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS
Special inspections and tests for mastic and intumescent fire-resistant coatings applied to structural elements and decks shall be performed in accordance with AWCI 12-B. Special inspections and tests shall be based on the fire-resistance design as designated in the approved construction documents. Special inspections and tests shall be performed during construction. Additional visual inspection shall be performed after the rough installation, and where applicable, prior to the concealement of electrical, automatic sprinkler, mechanical and plumbing systems.

[BF] 1705.18 FIRE-RESISTANT PENETRATIONS AND JOINTS
In buildings assigned to Risk Category III or IV, special inspections through penetrations, membrane penetration firestops, fire-resistant joint systems and perimeter fire containment systems that are tested and *listed* in accordance with Seciont s 714.4.1.2, 714.5.1.2, 715.3.1 and 715.4 shall be in accordance with Section 1705.18.1 or 1705.18.2

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

406.5.3 MIXED OCCUPANCY SEPARATION (OPEN PARKING GARAGE)
The Vehicle Sallyport shall be separated from other occupancies in accordance with the method described in 508.1

408.3.1 DOOR WIDTH
Door to resident sleeping units shall have a clear width of not less than 28 inches, except 32 inches at accessible sleeping units.

408.3.6 EXIT DISCHARGE
Exits are permitted to discharge into a fenced or walled courtyard. Enclosed *yards* or *courts* shall be of a size to accommodate all occupants, be located not less than 50 feet from the building and have an area of not less the 15 square feet per person.

408.3.7 SALLYPORTS [GROUP I-3]
A Sallyport shall be permitted in a means of egress where there are provisions for continuous and unobstructed passage through the sallyport during an emergency egress condition. Sallyports are incorporated into the means of egress.

408.6 SMOKE BARRIER [GROUP I-3]
Occupancies in I-3 have smoke barriers and are separated into at least two smoke compartments.

408.6.1 SMOKE COMPARTMENTS [GROUP I-3]
Maximum number of residents 200, actual number of residents and travel distances are confirmed in each smoke compartment.

408.7 SECRUITY GLAZING [GROUP I-3]
Security glazing is provided in smoke barriers.

408.8.1 SUBDIVISION OF RESIDENT SLEEPING AREAS, CONDITION 4
A smoke-tight partition shall separate the cells from the dayrooms.

408.8.3 OPENINGS IN ROOM FACE
The aggregate area of openings in cell doors are less than 120 square inches, and are less than 36 inches above the finish floor.

408.8.4 SMOKE TIGHT DOORS
Door closures are not provided on cell doors.

408.6.2 AREA OF REFUGE [GROUP I-3]
Area of refuge is provided on each side of each smoke barrier and is sized for the appropriate number of occupants.

408.9 WINDOWLESS BUILDINGS [GROUP I-3]
All smoke compartments are provided with an engineered smoke control system.

414.2 CONTROL AREAS
Control areas shall be defined by individual spaces separated in accordance with Section 414.2.4.

414.2.4 FIRE-RESISTANCE RATING REQUIREMENTS [CONTROL AREAS]
Each control area shall be separated by 1-hour fire barriers and 2 hour horizontal assemblies.

FIRE PROTECTIONS SYSTEMS

903.1 GENERAL [AUTOMATIC SPRINKLER SYSTEMS]
Automatic NFPA 13 wet-pipe sprinkler system shall be provided throughout entire building(s), except at recreation yards (preaction).

Table [F]906.3(1) PORTABLE FIRE EXTINGUISHER DISTRIBUTION
Maxiumum floor area coverage shall not exceed 11,250 SF
Maxiumum travel distance shall not exceet 75 feet.
Shall not be obstructed of obscurred from view.
Shall be provided where flammable or combustible liquids are stored, used, or dispersed.

906.2 PORTABLE FIRE EXTINGUISHER CABINETS
Exception 2: Fire extinguishers shall be locked and located in staff positions in I-3.

907.2 WHERE REQUIRED [FIRE ALARM AND DETECTION SYSTEM]
Manual and automatic fire alarm system shall be provided.

907.2.6.3 FIRE ALARM [GROUP I-3]
Group I-3 occupancies shall be equipped with a manual fire alarm system and automatic smoke detection system installed for alerting staff

907.2.6.3.1 FIRE ALARM [GROUP I-3] SYSTEM INITIATION
Actuation shall initiage an approved fire alarm signal which notifies staff.

907.2.6.3.2 FIRE ALARM [GROUP I-3] MANUAL FIRE ALARM BOXES IN DETAINEE AREAS
Not required to be located in detainee areas where the fire alarm boxes are provided at staff-attended locations having direct supervision over the areas where the boxes are omitted.

907.2.6.3.3 AUTOMATIC SMOKE DETECTION SYSTEM [GROUP I-3]
Exception 3: Not required in sprinklered sleeping units with fewer than 4 occupants.

909.0 SMOKE CONTROL SYSTEM
Smoke control system shall be based on the "exhaust" method.

909.16 FIRE-FIGHTER'S SMOKE CONTROL PANEL
Shall be provided adjacent to fire alarm control panel.

FIRE RESISTANCE RATED CONSTRUCTION

703.2.2 ANALYTICAL METHODS FOR DETERMINING FIRE RESISTANCE
The required fire resistance of a building element shall be permitted to be established by the following:
Fire resistance designs documented in approved sources
Prescriptive designs if fire-resistance-rated building elements or assemblies as prescribed in Section 721

Table 705.8 MAXIMUM AREA OF EXTERIOR WALL OPENINGS

FIRE SEPARATION DISTANCE	PROTECTION	ALLOWABLE AREA
30 Feet or greater	Unprotected, Nonsprinklered	No Limit
	Protected, Nonsprinklered	No Limit
	Protected	No Limit

707.5.1 SUPPORTING CONSTRUCTION [FIRE BARRIERS]
Supporting construction for fire barrier walls shall be protected and fire-resistive rated as the fire barrier.

707.6.8 OPENINGS [FIRE BARRIERS]
Each opening shall be protected per Section 716; limited to maximum aggregate width of 25% of length of wall; and maximum area of any single opening shall be 156 SF
Exception 1: Openings shall not be limited to 156 SF where adjoining floor areas are fully sprinklered

714.5 NONFIRE-RESISTANCE-RATED ASSEMBLIES [HORIZONTAL]
Penetrations shall comply with Section 712.1 or shall comply with 714.5.1 or 714.5.4

715.1 FIRE-RESISTANT JOINT SYSTEMS

Table 716.1(2)

FIRE DOOR AND FIRE SHUTTER FIRE PROTECTION RATINGS	WALL ASSEMBLY RATING	FIRE DOOR / SIDELIGHT / TRANSOM /SHUTTER RATING
FIRE WALLS	3 HRS.	3 HRS.
FIRE WALLS	2 HRS.	1-1/2 HRS.
FIRE BARRIERS	2 HRS.	1-1/2 HRS.
FIRE BARRIERS: SHAFT, EXIT ENCLOSURE, EXIT PASSAGEWAY	2 HRS.	1-1/2 HRS.
FIRE BARRIERS: OTHER	1 HOUR	1 HOUR
FIRE PARTITIONS: CORRIDOR WALLS	1 HOUR	1/3 HOUR
FIRE PARTITIONS: OTHER	1 HOUR	3/4 HOUR
SMOKE BARRIERS	1 HOUR	1/3 HOUR

716.1.2.1 SAFETY GLAZING
Each opening shall be protected per Section 716; limited to maximum aggregate width of 25% of length of wall; and maximum area of any single opening shall be 156 SF

Table 716.1(3)

FIRE WINDOW ASSEMBLY FIRE PROTECTION RATINGS	ASSEMBLY RATING	FIRE WINDOW RATING
INTERIOR FIRE WALLS	ALL	NOT PERMITTED (a)
INTERIOR FIRE BARRIERS	GREATER THAN 1-HOUR	NOT PERMITTED (a)
INTERIOR FIRE BARRIERS	1 HOUR	NOT PERMITTED (a)
INTERIOR SMOKE BARRIERS	1 HOUR	3/4 HOUR
INTERIOR FIRE PARTITIONS	1 HOUR	3/4 HOUR
INTERIOR FIRE PARTITIONS	1/2 HOUR	1/3 HOUR

a. Not permitted except fire-resistance-rated glazing assemblies tested to ASTM E119 or UL 263, as specified in Section 716.1.2.3

717.4 ACCESS AND IDENTIFICATION [DAMPERS]
Provide access to all fire, smoke, and combination dampers large enough to permit inspection and maintenance of the damper and it operable parts.
Access shall not affect or reduce the rated integrety.
Identify all access points with a label complying with Section 717.4.2

717.6 HORIZONTAL ASSEMBLIES [DAMPERS]
Penetrations by ducts and air transfer openings shall be protected by a shaft enclosure or shall comply with Section 717.6.3

717.6.3 Nonfire-Resistance-Rated FLOOR ASSEMBLIES [DAMPERS]
Penetrations by ducts and air transfer openings shall be protected in accordance with Section 717.6.3

INTERIOR FINISHES

802.7 FOAM PLASTICS
The required fire resistance of a building element shall be permitted to be established by the following:

803.1.2

CLASS	FLAME SPREAD	SMOKE DEVELOPED
A	0-25	0-450
B	26-75	0-450
C	76-200	0-450

Table 803.13 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

GROUP	SPRINKLERED			NON-SPRINKLERED		
	Exit Enclosures and Passageways	Corridors	Rooms and Enclosed Spaces	Exit Enclosures and Passageways	Corridors	Rooms and Enclosed Spaces
B, E, M AND R-1	B	C	C	A	B	C
I-3	A	A	C	A	A	B
S	C	C	C	B	B	C
U	NO RESTRICTIONS			NO RESTRICTIONS		

803.15.1 DIRECT ATTACHMENT AND FURRED CONSTRUCTION
Where walls or ceilings are required to be fire-resistance-rated or noncombustible, apply interior finish directly to such construction or furring strips not more than 1-3/4 inches in size.
Fill intervening spaces between furring strips with inorganic, noncombustible, or Class A material; or fireblock at 8 ft. intervals.

803.15.2 SET-OUT CONSTRUCTION
Where walls or ceilings are set out and required to be fire-resistance-rated or noncombustible, provide Class A materials.
Where walls or ceilings are set out and required to be fire-resistance-rated or noncombustible, provide sprinkler protection within and outside concealed space.
Provide set-out construction in accordance with Section 803.11.1 for finish materials not classified as Class A

805.1 APPLICATION [COMBUSTIBLE MATERIALS IN TYPE I AND II CONSTRUCTION]
Combustible materials provided on or embedded in floors or buildings of Type I or II construction shall comply with Secions 805.1.1 through 805.1.3

[F] 806.2 COMBUSTIBLE DECORATIVE MATERIALS
Amount of combustible decorative materials shall not exceed 10% of the aggregate area of the walls and ceilings.
Exception 1 applies
Exception 2 applies

[F] 806.7 INTERIOR TRIM
Other than foam plastic, shall be minimum Class C
Combustible trim, excluding handrails and guards, shall not exceed 10 percent of the specific wall or ceiling area in which its attached.

MEANS OF EGRESS

1003.5 ELEVATION CHANGE
Where changes in elevation of less than 12 inches exist in the means of egress, sloped surfaces shall be provided
Where the slope is greater than 1:20, ramps complying with Section 1010 shall be provided.

1004.1 DESIGN OCCUPANT LOAD
Refer to Drawing LS2.1 for the Facility Occupant Load
Refer to Drawing LS2.2 through LS2.3 for the Occupancy Schedule

1004.5 AREAS WITHOUT FIXED SEATING
Exception: Refer to Occupancy Schedule on Drawings LS2.2 through LS2.3 for spaces where actual occupant loads were utilized.

1004.9 POSTING OF OCCUPANT LOAD
Occupancy signage shall be provided for assembly occupancy spaces.

1004.7 OUTDOOR AREAS
Refer to Drawings LS2.2 & LS2.3 under FACILITY OCCUPANT LOAD for occupant loads for outdoor area.

1005.2 MINIMUM REQUIRED EGRESS WIDTHS
Refer to Drawings LS2.1 for egress capacities for exits and stairways.

1005.3.1 EXIT STAIRWAYS
Refer to Drawings LS2.1 for egress capacities for exits and stairways.

1010.4 GATES
Gates do serve as a component of the means of egress, and shall comply with the applicable requirements for doors.

1015.7 PROTECTION AT ROOF HATCH OPENINGS
Roof hatch opening is not located within 10 feet of the roof edge.

1013.4 TACTILE EXIT SIGNS
Tactile EXIT signs complying with ICC A117.1 shall be located adjacent to each door to the following:
Doors to an exit ramp (doors in corridors)
Doors to an exit discharge (doors leading to the exterior)

1015.6 MECHANICAL EQUIPMENT
Guards shall be provided where components requiring service are within 10 feet of a roof edge, or open side of a walking surface which is more than 30 inches above the floor, roof, or grade below.

1006.2.1 COMMON PATH OF EGRESS TRAVEL
Common path of egress travel shall not exceed 100 feet in Groups B, I-3, and S where building is fully sprinklered
In Groups A, where building is fully sprinklered, travel shall not exceed 75 feet.

1017.2 EXIT ACCESS TRAVEL DISTANCE LIMIT
200 feet w/sprinkler system for I-3 Occupancies
250 feet w/sprinkler system for S-1 Occupancies
300 feet w/sprinkler system for B Occupancies
400 feet w/sprinkler system for S-2 Occupancies

Table 1020.2 CORRIDOR FIRE-RESISTANCE RATING

OCCUPANCY	OCCUPANT LOAD SERVED BY THE CORRIDOR	REQUIRED FIRE RESISTANCE RATING (HOURS)	
		Without Sprinkler System	With Sprinkler System
A, B, E, F, M, S, U	Greater than 30	1	0
I-1, I-3	All	Not Permitted	1

1020.3 CORRIDOR WIDTH
Minimum corridor width as determined by required egress, but not less than 44 inches.
Exception 1: 24 inches minimum access to electrical, mechanical or plumbing systems.
Exception 2: 36 inches minimum where required capacity is less than 50

1020.5 DEAD ENDS
Exit access corridors shall not exceed more than 20 feet, unless allowed by the following excpetion[s]:
Exception 1: 50 feet I-3, Conditions 2, 3 or 4
Exception 2: 50 feet B, S where building is fully sprinklered

PLUMBING FIXTURES

Table 2902.1

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS		MOP SINK	DRINK. FTS.	
		Male	Female	Unisex		Male	Female	Unisex	Reg.	Acc.		Reg.	Acc.
B	Exist.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	New												
	Req'd												
I-3	Exist.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	New												
	Req'd												

The S.C. Building Codes Council approved an emergency modification request to delete the below exceptions from the 2021 SC Building Code and 2021 SC Plumbing Code without substitution:

Exception 6 was deleted without substitution from Section 403.2 of the 2021 IPC and from Section [P] 2902.2 of the 2021 IBC.
Exception 2 was deleted without substitution from Section 403.1.1 of the 2021 IPC and from Section [P] 2902.1.1 of the 2021 IBC.

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GEORGETOWN COUNTY RE-ENTRY FACILITY

611315 GEORGETOWN COUNTY

PROJECT NO: 611315
DATE: FEBRUARY 26, 2024

REVISIONS	
DATE	DESCRIPTION

CODE SUMMARY

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LIFE SAFETY - ACCESSORY USE BUILDING 'n' FIRST...

SPACE NUMBER	SPACE NAME	AREA (SF) GROSS

LIFE SAFETY - FACILITY TOTAL AREA

	AREA (SF)

LIFE SAFETY - GENERAL DATA

BUILDING	OCCUPANCY CLASSIFICATION		CONSTRUCTION TYPE	FULLY SPRINKLERED	MIXED OCCUPANCY	NON-SEPARATED MIXED USE	SEPARATED MIXED USE	OCCUPANCY CLASSIFICATION - DESIGN
	PRIMARY	SECONDARY						

LIFE SAFETY - HEIGHT

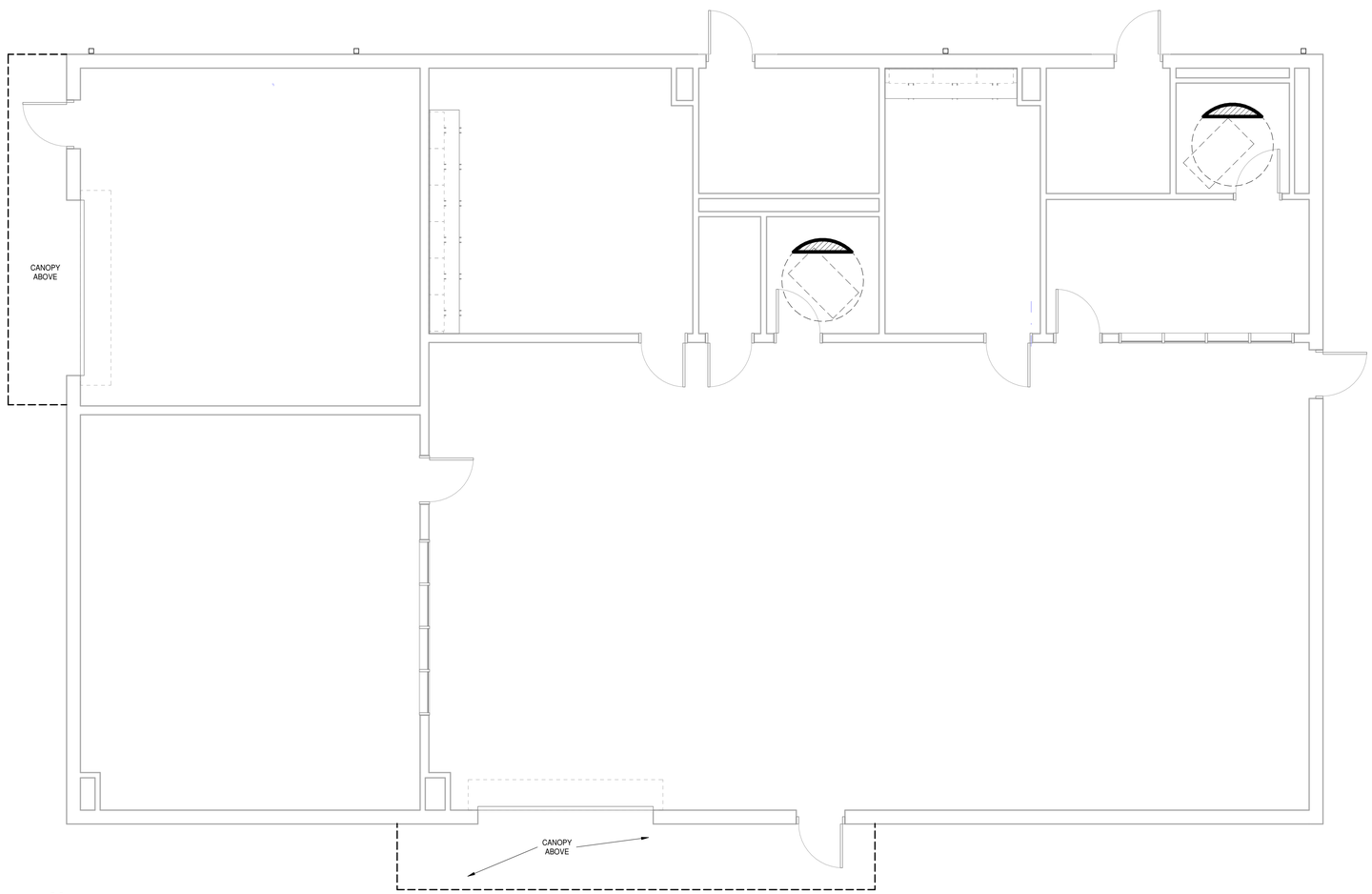
BUILDING	SPRINKLERED	ALLOWABLE HEIGHT INCREASE	ALLOWABLE STORIES INCREASE	TABULAR HEIGHT	TABULAR STORIES	ALLOWABLE HEIGHT	ALLOWABLE STORIES	ACTUAL HEIGHT	ACTUAL STORIES

LIFE SAFETY - OPEN PERIMETER - IBC 2012 & OLDER

	TABULAR AREA (SF)	OPEN PERIMETER CALCULATIONS				SPRINKLERED MODIFICATION INCREASE		TOTAL ALLOWABLE AREA (SF)	ACTUAL AREA (SF)
		F (FT)	P (FT)	W (FT)	INCREASE FOR FRONTAGE (SF)	200% / MULTI-STORY (SF)	300% / SINGLE STORY (SF)		

LIFE SAFETY - OPEN PERIMETER - IBC 2015 & NEWER

	TABULAR AREA (SF)	OPEN PERIMETER CALCULATIONS				TOTAL ALLOWABLE AREA (SF)	ACTUAL AREA (SF)
		F (FT)	P (FT)	W (FT)	INCREASE FOR FRONTAGE (SF)		



N

LIFE SAFETY PLAN

1/4" = 1'-0"

LIFE SAFETY KEY PLAN

LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX

	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
4 HR FIRE	▲▲▲▲▲	▫▫▫▫▫		
3 HR FIRE	▷▷▷▷▷	◇◇◇◇◇		●●●●●
2 HR FIRE	✖✖✖✖✖	■■■■■		▮▮▮▮▮
1 HR FIRE		▶▶▶▶▶	★★★★★	▬▬▬▬
½ HR FIRE			✚✚✚✚✚	
SMOKE		△△△△△	◆◆◆◆◆	
SMOKE-TIGHT			○○○○○	
INCIDENTAL			♦♦♦♦♦	

NOTES:

1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.
3. RATING OF BEARING OR NON-BEARING WALLS ARE PER TABLE 601 AND SECTION 602.1 AND DO NOT REQUIRE PROTECTED OPENINGS.

DOUBLE FIRE WALL

'n' = RATING IN HOURS — nDFW — DFW = DOUBLE FIRE WALL

NOTE: RATINGS MAY VARY, REFER TO A0.2 FOR ACTUAL RATINGS OF FIRE WALLS COMPOSING THE DOUBLE FIRE WALLS

SYMBOLS

- 1205 — ROOM NUMBER
- 798 | 1280 — DIRECTION OF EGRESS; EGRESS LOAD CAPACITY; NUMBER OF OCCUPANTS
- DIRECTION OF EGRESS; NUMBER OF OCCUPANTS; EGRESS LOAD CAPACITY — 798 | 1280
- XXX'-X" — MAXIMUM TRAVEL DISTANCE
- XXX'-X" CPOT — COMMON PATH OF TRAVEL
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER BRACKET
- EXTENT OF SPRAYED-ON/APPLIED FIRE PROOFING
- EXTENT OF SMOKE COMPARTMENT
- EXTENT OF FLOOR / CEILING AND/OR ROOF / CEILING ASSEMBLY
- 3 — BUILDING NUMBER

FIRE RATED ASSEMBLIES

REPRESENTED BY Xn

THE ASSEMBLIES REFERENCED ARE BASIS OF DESIGN; EQUIVALENT COMPATIBLE TESTED ASSEMBLIES WILL BE ACCEPTABLE IF APPROVED BY THE LAHJ

MARK	FIRE RATING	APPLIES TO	REFERENCE	REMARKS
Xn	--		--	--
Xn	--		--	--
Xn	--		--	--
Xn	--		--	--

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GEORGETOWN COUNTY RE-ENTRY FACILITY

611315 GEORGETOWN COUNTY

PROJECT NO: 611315
DATE: FEBRUARY 26, 2024

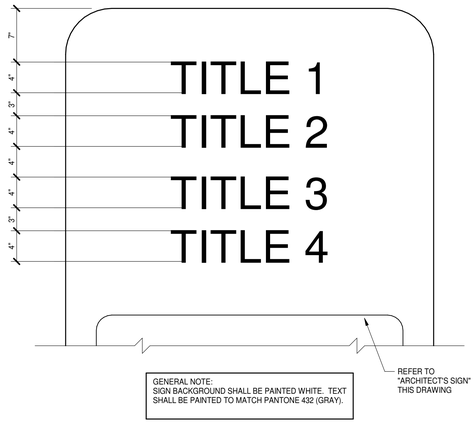
REVISIONS

DATE	DESCRIPTION

LIFE SAFETY INFORMATION

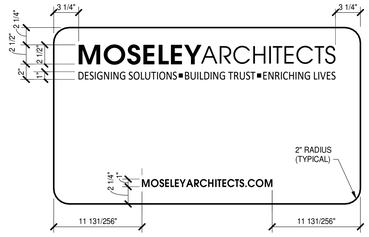
LS1.1

2/26/2024 7:32:51 PM



TEXT LAYOUT ELEVATION

1 1/2" = 1'-0"



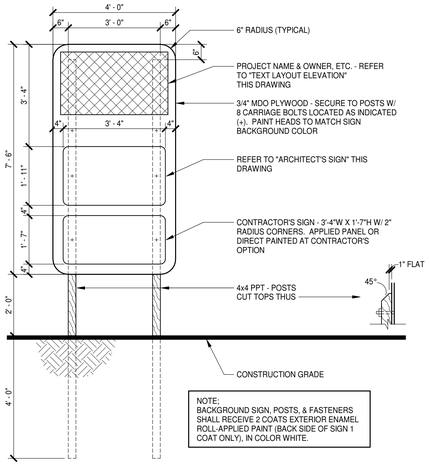
SIZE: 1'-11" VERTICAL x 3'-4" HORIZONTAL

NOTES:
"MOSELEY" TEXT IN LOGO AND WEB ADDRESS IS PMS 485. BULLETS ARE PMS 485, ALL OTHER TEXT AND BORDER IS PMS 432. BACKGROUND IS WHITE.

FONT FOR "DESIGNING SOLUTIONS BUILDING TRUST ENRICHING LIVES" TEXT IS CALIBRI, ALL OTHER TEXT IS AVANTGARDE FONT.

ARCHITECT'S SIGN

1 1/2" = 1'-0"



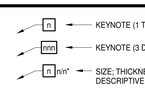
PROJECT SIGN ELEVATION

1/2" = 1'-0"

ARCHITECTURAL ABBREVIATIONS

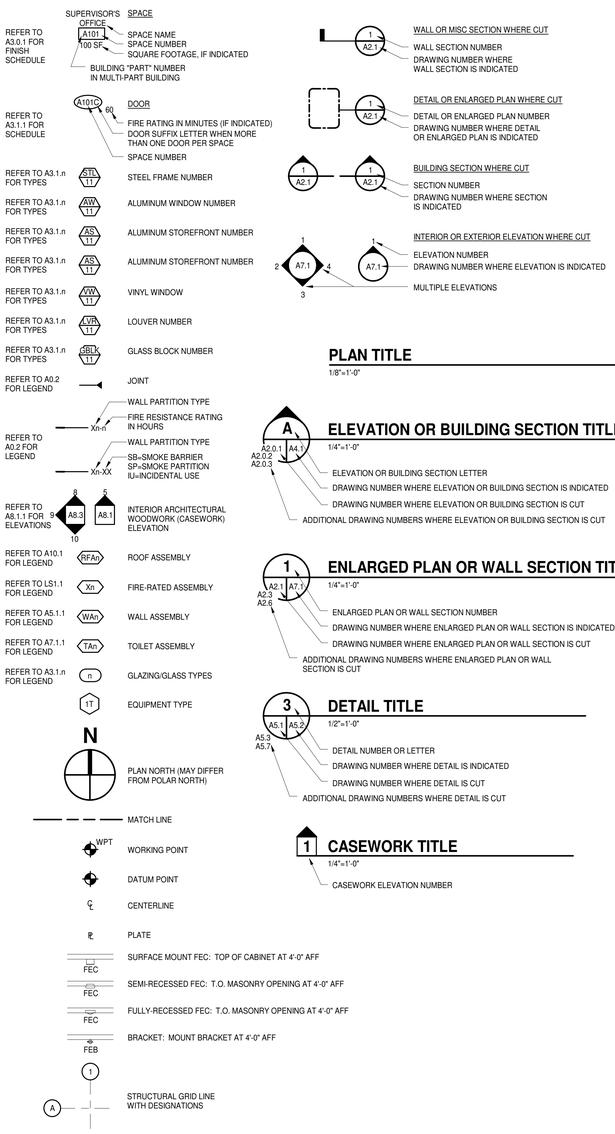
A-PT	ACCENT PAINT
ABS	AIR BARRIER SYSTEM
ABV	ABOVE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ACW	ALUMINUM CLAD WINDOW
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APC	ARCHITECTURAL PRECAST CONCRETE
ARC	ABUSE RESISTANT COATING
AS	ALUMINUM STOREFRONT
AUTO	AUTOMATIC
AVG	AVERAGE
AW	ALUMINUM WINDOW
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BF	BARRIER FREE (ADA or A117.1)
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BUR	BUILT-UP ROOF
C	CARPET
C-TILE	CARPET TILE
CAB	CABINET
CB	CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CFSF-NS	COLD FORMED STEEL FRAMING, NON-STRUCTURAL
CFSF-S	COLD FORMED STEEL FRAMING, STRUCTURAL
CG	CORNER GUARD
CI	CONTINUOUS INSULATION
CIPC	CAST IN PLACE CONCRETE
CJ	CONTROL JOINT
CL	CLOSET
CLG	CEILING
CLR	CLEAR
CM	CENTIMETER
CMBD	CEMENT BOARD
CMU	CONCRETE MASONRY UNIT
CMU-A	CONCRETE MASONRY UNIT - ACOUSTICAL
CMU-GF	CONCRETE MASONRY UNIT - GROUND FACE
CMU-GLZ	CONCRETE MASONRY UNIT - GLAZED
CMU-SPLF	CONCRETE MASONRY UNIT - SPLIT FACE
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONC-LH	CONCRETE WITH LIQUID HARDENER/SEALER
CONC-PMT	CONCRETE WITH PIGMENT
CONC-POL	CONCRETE - POLISHED
CONC-SLR	CONCRETE WITH CURE & SEAL
CONC-ST	CONCRETE WITH STAIN
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CSMU	CAST STONE MASONRY UNIT
CT	CERAMIC TILE
CTSK	COUNTERSINK, COUNTERSUNK
CU FT	CUBIC FEET / FOOT
CUST	CUSTODIAN / CUSTODIAL
CW	ALUMINUM CURTAIN WALL
CWFD	CEMENTITIOUS WOOD FIBER DECK
D	DEPTH/DEEP
DBL	DOUBLE
DEMO	DEMOLITION
DETE	DETENTION
DF	DRINKING FOUNTAIN
DG	DOOR GRILLE
DHM	DETENTION HOLLOW METAL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DOOR LOUVER
DN	DOWN
DP	DAMPPROOFING
DR	DISPLAY RAIL
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
EA	EACH
EF	EXHAUST FAN
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAS	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXPC	EXPOSED CONSTRUCTION
EXT	EXTERIOR
FAAF	FLUID APPLIED ATHLETIC FLOORING
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FIN	FINISHED
FLR	FLOOR
FLRG	FLOORING
FO	FACE OF
FRM	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FVC	FIRE VALVE CABINET
FWC	FABRIC WALL COVERING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GYPSUM BOARD
GB-AR	GYPSUM BOARD - ABUSE RESISTANT
GB-IR	GYPSUM BOARD - IMPACT RESISTANT
GB-S	GYPSUM BOARD - SECURITY
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS, GLAZING
GL-BLK	GLASS BLOCK
GPM	GALLONS PER MINUTE
GRT	GROUT
GSFT	GLAZED STRUCTURAL FACING TILE
GT	GLASS TILE
GWT	GLAZED WALL TILE
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HBD	HARDBOARD
HDC	HOLD DOWN CLIPS
HDNR	HARDENER
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATINGS
HPFP	HIGH PERFORMANCE FLOOR PAINT
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH, INCHES
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
IRWC	IMPACT RESISTANT WALL COVERING
IWB	INTERACTIVE WHITE BOARD
JAN	JANITOR
JCT	JUNCTION
JT	JOINT
L	LENGTH/LONG
LAB	LABORATORY
LAHJ	LOCAL AUTHORITY HAVING JURISDICTION
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LIN	LINOLEUM
LKR	LOCKER
LMC	LINEAR METAL CEILING
LPS	LAMINATE PANEL SYSTEM
LT	LIGHT
LVR	LOUVER
M	METER
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MCM	METAL COMPOSITE MATERIAL
MCP	METAL CEILING PANEL
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MIF	MULTICOLOR INTERIOR FINISHING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MPS	MANUAL PROJECTION SCREEN
MR	MAP RAIL
MT	MOUNT
MTD	MOUNTED
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPNG	OPENING
OPP HD	OPPOSITE HAND
OVHD	OVERHEAD
P-TILE	PORCELAIN TILE
PC	PRECAST
PERF	PERFORATED, PERFORATION(S)
PERIM	PERIMETER
PIP	POURED IN PLACE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLASTIC LAMINATE WOOD
PLYWD	PLYWOOD
PNL	PANEL, PANELING
POLY	POLYETHYLENE
PPS	POWER PROJECTION SCREEN
PPT	PRESSURE- OR PRESERVATIVE-TREATED
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREP	PREPARE / PREPARATION
PS	PROJECTION SCREEN
PSB	PENCIL SHARPENER BLOCK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTN	PARTITION
PTS	PNEUMATIC TUBE SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PVWC	PERFORATED VINYL WALL COVERING
QSM	QUARTZ SURFACING MATERIAL
QT	QUARRY TILE
QTY	QUANTITY
R	RISER, RADIUS
R/W	RIGHT OF WAY
RAD	RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REFG	REFRIGERATOR
REINF	REINFORCING, REINFORCE(D)
REM	RECESSED ENTRY MAT
REQ'D	REQUIRED
RES	RESINOUS FLOORING
RFT	RUBBER FLOOR TILE
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RSF	RUBBER SHEET FLOORING
RSR	RESILIENT STAIR RISER
RST	RESILIENT STAIR TREAD
RT	RIGHT
RTU	ROOFTOP UNIT
SAB	SOUND ATTENUATION BLANKET
SC-PLK	SECURITY CEILING PLANK
SC-PNL	SECURITY CEILING PANEL
SCH	SCHEDULE
SF	SQUARE FEET / FOOT
SFRM	SPRAYED FIRE RESISTANT MATERIAL
SHM	SECURITY HOLLOW METAL
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SPF	SPRAYED POLYURETHANE FOAM
SPR	SPRINKLER
SQ	SQUARE
SQ FT	SQUARE FEET / FOOT
SRD	SECONDARY ROOF DRAIN
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STREET
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWM	SECURITY WOVEN MESH / WOVEN ROD
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
T.O.	TOP OF
TB	TACKBOARD
TCF	TEXTILE COMPOSITE FLOORING
TEL	TELEPHONE
TERR-C	TERRAZZO CEMENTITIOUS
TERR-E	TERRAZZO EPOXY
TERR-R	TERRAZZO RUBBERIZED
THHD	THRESHOLD
THK	THICKNESS, THICK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TACK STRIP
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED (INDICATED) OTHERWISE
VAT	VINYL ASBESTOS TILE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VEST	VESTIBULE
VFCT	VINYL FREE COMPOSITION TILE
VFWC	VINYL FREE WALLCOVERING
VR	VAPOR RETARDER
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VW	VINYL WINDOW
VWC	VINYL WALL COVERING
W	WIDE, WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCP	WOOD CEILING PANEL
WD	WOOD
WDW	WINDOW
WP	WATERPROOFING
WPT	WORKING POINT
WSCT	WAINSCOT
WSF	WOOD SPORTS FLOORING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XPS	EXTRUDED POLYSTYRENE

KEYNOTES



1. KEYNOTES ARE GENERALLY ASSOCIATED WITH A SERIES OF DRAWINGS (e.g., A3.2.n, A5.1.n); THEREFORE KEYNOTE NUMBERS FROM SERIES TO SERIES WILL VARY (i.e., KEYNOTE NO. 1 IN THE A3.2.n SERIES WILL BE DIFFERENT FROM KEYNOTE NO. 1 IN THE A5.1.n SERIES).

ARCHITECTURAL GRAPHIC SYMBOL LEGEND



ARCHITECTURAL GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. ELEMENTS THAT ARE IDENTIFIED BY OTHER DISCIPLINES (e.g., CIVIL, STRUCTURAL, PLUMBING, FIRE PROTECTION, MECHANICAL, ELECTRICAL) ELSEWHERE WITHIN THE ARCHITECTURAL SERIES OF DRAWINGS AND/OR SPECIFICATIONS, OR IDENTIFIED OR COVERED BY DEFAULTS IN SIZES, THICKNESS, SPACING, MATERIALS) IN THE SPECIFICATIONS MAY NOT BE ANNOTATED (NOTE OR KEYNOTED) ON THESE DRAWINGS.

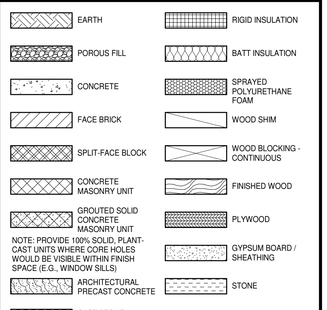
C. ELEMENTS IDENTIFIED IN "LEGENDS" AND/OR "GENERAL NOTES" MAY NOT BE NOTED IN DETAILS, OR SECTIONS, AS THESE ELEMENTS ARE IDENTIFIED IN THE LEGENDS (e.g. FACE BRICK, CMU, WINDOWS)

D. REFER TO "ASSEMBLIES" FOR MATERIALS AND COMPONENTS THAT MAKE UP THAT PARTICULAR ASSEMBLY (e.g., EXTERIOR WALL ASSEMBLIES, ROOF ASSEMBLIES, AND FIRE-RATED ASSEMBLIES). ONCE A PARTICULAR ASSEMBLY HAS BEEN IDENTIFIED ON ONE DRAWING, THAT SAME ASSEMBLY GRAPHIC SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE. PROVIDE THAT SAME ASSEMBLY AT THE SIMILAR LOCATION WHETHER THE ASSEMBLY GRAPHIC SYMBOL IS SHOWN OR NOT.

E. VERIFY ALL DIMENSIONS, INCLUDING DIMENSIONS ON STRUCTURAL DRAWINGS AND OTHER ARCHITECTURAL DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

F. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL EQUIPMENT INDICATED TO BE MOUNTED OR OTHERWISE REQUIRED TO BE MOUNTED TO THE FLOOR. WHERE PADS ARE NOT SHOWN, PROVIDE 6" THICK CONCRETE PADS W/ 3/4" CHAMFERED EDGES (ALL SIDES). REINFORCE WITH MESH EQUIVALENT TO FLOOR SLAB REINFORCING REQUIREMENTS.

ARCHITECTURAL MATERIALS LEGEND



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GEORGETOWN COUNTY RE-ENTRY FACILITY

611315 GEORGETOWN COUNTY

PROJECT NO: 611315
DATE: FEBRUARY 26, 2024

REVISIONS	
DATE	DESCRIPTION

GENERAL ARCHITECTURAL INFORMATION

A0.1

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TERMINATION GENERAL NOTES

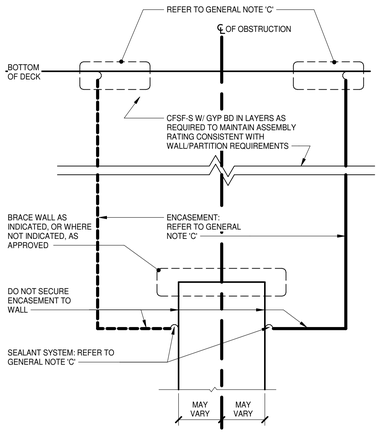
A. AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.

B. AT ALL OTHER WALLS INDICATED TO EXTEND TO UNDERSIDE OF FLOOR/ROOF DECK/CAP: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES). BRACE WALL AS INDICATED OR REQUIRED.

C. AT ALL WALLS PREVENTED FROM TERMINATING AT THE UNDERSIDE OF FLOOR/ROOF DECK BY OBSTRUCTIONS, COMPLY WITH THE FOLLOWING:

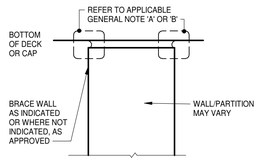
- AT FIRE-, SMOKE-, AND ACOUSTICALLY-RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
- AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
- AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
- SEAL ENCASEMENT TO WALL AND SEAL ENCASEMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

TERMINATIONS



HEAD-OF-WALL TERMINATION @ OBSTRUCTION

OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)



HEAD-OF-WALL TERMINATION @ NON-OBSTRUCTION

WALL JOINT GENERAL NOTES

A. LOCATE CONTROL JOINTS IN INTERIOR AND EXTERIOR WALLS AS INDICATED ON DRAWINGS.

B. JOINTS ARE INDICATED THUS ◄ ON PLANS AND ELEVATIONS.

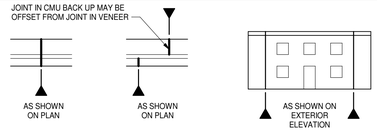
C. WALLS AND JOINT TYPES/DETAILS ARE DIAGRAMMATIC. ADJUST JOINT TYPES/DETAILS IN ACCORDANCE WITH ACTUAL FIELD CONDITIONS.

D. PROVIDE TESTED JOINT ASSEMBLIES AT FIRE-, SMOKE-, AND ACOUSTICAL-RATED WALLS.

E. WHEN USED HEREIN "RATED" MEANS: FIRE, SMOKE, AND/OR ACOUSTICAL.

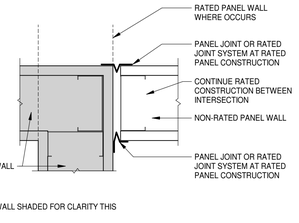
F. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL JOINT REQUIREMENTS.

EXTERIOR WALL JOINT GRAPHICS



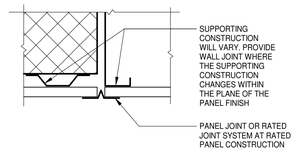
WALL JOINTS

RATED/ NON-RATED CFSF/ PANELS

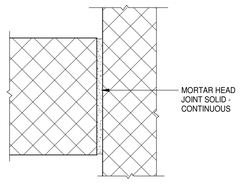


NOTE:
RATED WALL SHADED FOR CLARITY THIS DETAIL

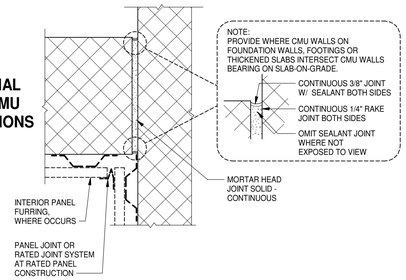
CMU/ CFSF



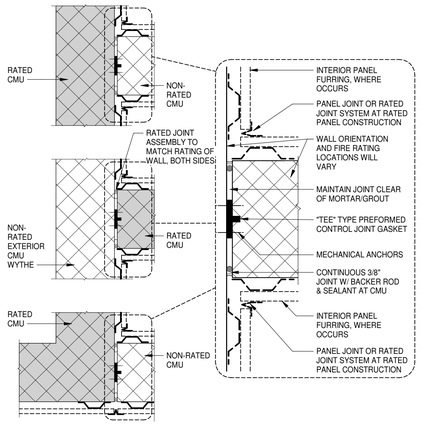
EQUAL BEARING CMU INTERSECTIONS



DIFFERENTIAL BEARING CMU INTERSECTIONS

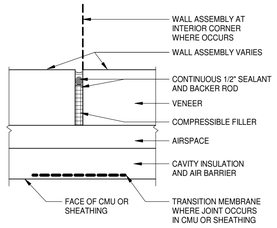


RATED/ NON-RATED CMU

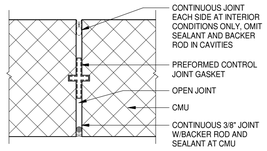


NOTE:
RATED WALLS SHADED FOR CLARITY THIS DETAIL

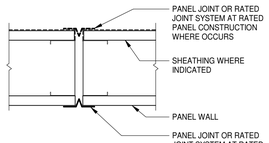
VENEER/ CAVITY



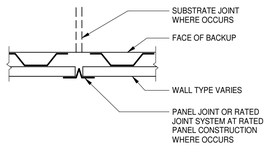
CMU



CFSF/ PANELS



PANEL



WALL/PARTITION TYPE GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. EXTEND WALL/PARTITION ASSEMBLY COMPONENTS FULL HEIGHT OF ASSEMBLY.

C. ALL INTERIOR MASONRY UNIT PARTITIONS: M1 ***[Coordinate with partition type schedule below]*** UNLESS INDICATED OTHERWISE.

D. ALL INTERIOR CFSF PANEL PARTITIONS: P1 ***[Coordinate with partition type schedule below]*** UNLESS INDICATED OTHERWISE.

E. REFER TO STRUCTURAL **AND DETENTION** ***(delete if no detention work)*** DRAWINGS AND RELATED SPECIFICATIONS FOR SOLID MASONRY, GROUTING, AND REINFORCEMENT REQUIREMENTS INCLUDING BUT MAY NOT BE LIMITED TO:

- MASONRY WALLS/PARTITIONS
- LINTELS
- LINTEL BEARING CONDITIONS
- BOND BEAMS
- SHELF BEARING CONDITIONS
- STRUCTURAL REINFORCING REQUIREMENTS
- CHANGES IN WYTHE

F. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.

G. EXTEND ALL FIRE-, SMOKE-, INCIDENTAL USE-, AND ACOUSTICAL-RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASEMENT OR SOLID CAP ABOVE.

- SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS.

H. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:

- EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.

I. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE FIRE WALLS.

J. SEAL AROUND ALL PENETRATIONS.

K. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS.

L. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.

M. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT, UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE ***[Mn or Pn – Coordinate with partition type in schedule below]*** CHASE CONSTRUCTION.

- HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES.
- EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.

N. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

MASONRY UNIT WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
M1	⬭	--	
M2	⬭	--	
M3	⬭	--	

PANEL WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1	⬭	--	
P2	⬭	--	
P3	⬭	--	
P4	⬭	--	

SECURITY WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
S1	⬭	--	
S2	⬭	--	

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GEORGETOWN COUNTY RE-ENTRY FACILITY

611315 GEORGETOWN COUNTY

PROJECT NO: 611315
DATE: FEBRUARY 26, 2024

REVISIONS	
DATE	DESCRIPTION

WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS

A0.2

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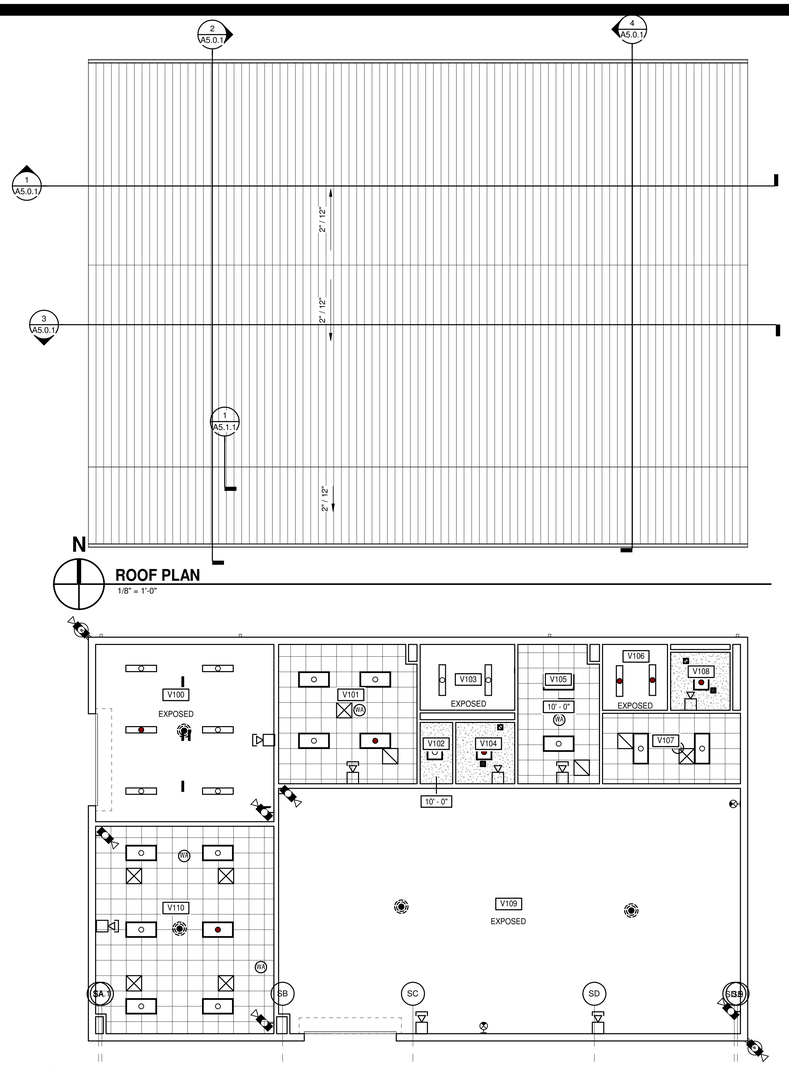
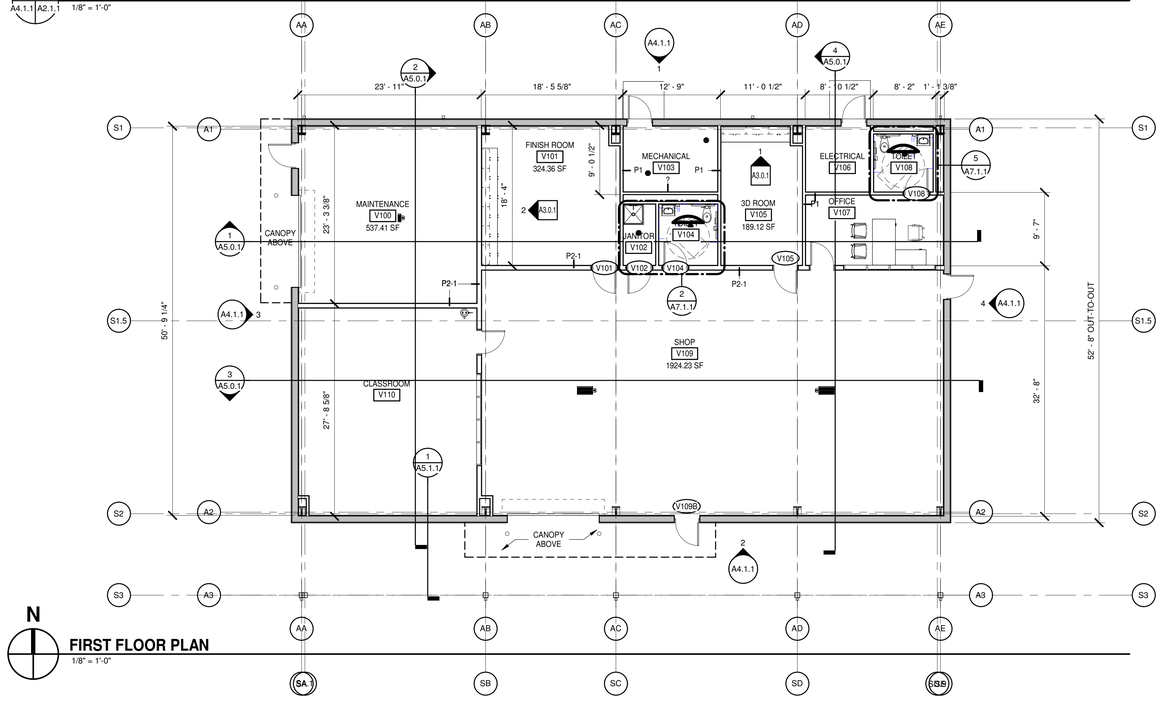


ROOF PLAN
1/8" = 1'-0"

2 RE-ENTRY BUILDING - RCP
A4.1.1 A2.1.1 1/8" = 1'-0"



FIRST FLOOR PLAN
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. GENERAL NOTE 1...

B. GENERAL NOTE 2....

REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A9.1.n - A9.1.n

REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

A101 — SPACE NUMBER
nn'-nn" — CEILING HEIGHT, AFF UNO

INTERIOR APPLICATIONS: GYPSUM BOARD CEILING

EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING

2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID

1 HR RATED HORIZONTAL SHAFT WALL ABOVE ACP CEILING

1'-0" x 1'-0" ACT ON 3/4" FRT PLYWOOD ON CFSF-S SUSPENDED FRAMING

AP — ACCESS PANEL

WITH OPENING — EXTERIOR WALL

WITH OPENING — INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK

WITH OPENING — INTERIOR WALL/PARTITION TO CAP ABOVE OR TERMINATES ADJACENT TO A RATED HORIZONTAL ASSEMBLY

WITH OPENING — INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES

INTERIOR WALL/PARTITION TO UNDERSIDE OF CEILING

EXISTING TO REMAIN. VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

A. ALL CEILING HEIGHTS SHALL BE 9'-0" AFF UNLESS INDICATED OTHERWISE.

B. DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.

C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

D. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO SATISFY CODE OR COVERAGE DENSITIES (OTHER THAN THOSE THAT MAY BE INDICATED), PROVIDE ADDITIONAL SPRINKLER HEADS AT NO ADDITIONAL COST AND OBTAIN APPROVAL OF ARCHITECT FOR LOCATION OF SUCH HEADS, IF ANY.

DOOR SCHEDULE

NUMBER	DOOR TYPE	SIZE (NOMINAL)	DOOR MATL	DOOR LOUVER	DOOR UC	DOOR GLAZING TYPE	FRAME TYPE	FRAME NUMBER	FRAME SECTIONS	FRAME HEAD DETAIL	FRAME JAMB DETAIL	FRAME JAMB DETAIL	FRAME SILL DETAIL	FIRE RATING	NOTES
V100A	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A	1	1	1	1	--	
V100B	OH	12' - 0" x 12' - 0" x 2"							--					--	
V101	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A	1	1	1	1	--	
V102	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A	1	1	1	1	--	
V103	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	1	20 MIN	
V104	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A	1	1	1	1	--	
V105	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A	1	1	1	1	--	
V106	F	3' - 0" x 7' - 0" x 1 3/4"												20 MIN	
V107	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A	1	1	1	1	--	
V108	F	3' - 0" x 7' - 0" x 1 3/4"												20 MIN	
V109	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A	1	1	1	1	--	
V109A	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A	1	1	1	1	--	
V109B	F	3' - 0" x 7' - 0" x 1 3/4"	STL	--	--	--	STL	1	A					--	
V109C	OH	12' - 0" x 12' - 0" x 2"	STL	--	--	G2	STL	--	--	PER MANUF	PER MANUF	PER MANUF	PER MANUF	--	

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GEORGETOWN COUNTY RE-ENTRY FACILITY

611315 GEORGETOWN COUNTY

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REVISIONS	
DATE	DESCRIPTION

RE-ENTRY BUILDING - FLOOR PLAN, RCP, ROOF PLAN

A2.1.1

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BUILDING ELEVATION KEYNOTES

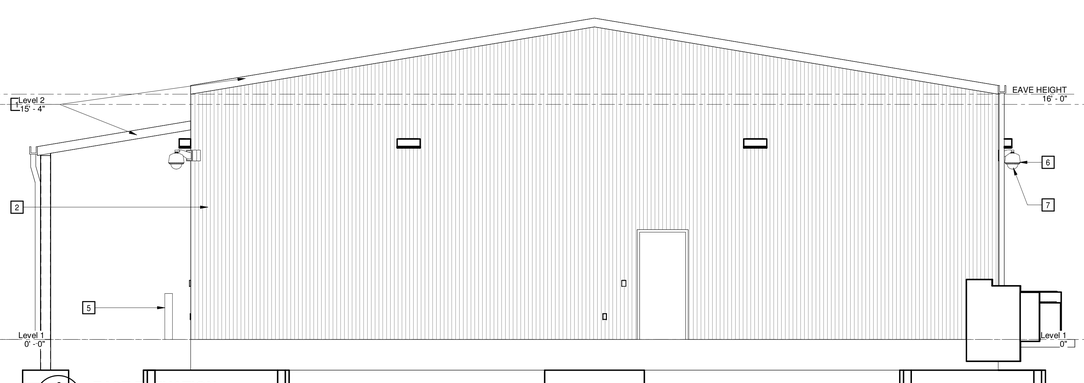
REPRESENTED BY [n]

APPLIES TO DRAWINGS A4.1 - A4.n

1	STANDING SEAM METAL ROOF
2	PEMB METAL WALL PANELS
3	PREFINISHED ALUMINUM PROTECTIVE COVER
4	PREFINISHED ALUMINUM GUTTER AND DOWNSPOUT
5	BOLLARDS - REFER TO ARCHITECTURAL SITE PLAN
6	SECURITY CAMERA, TYP. - REFER TO SECURITY DRAWINGS
7	WALL SCONCE - REFER TO ELECTRICAL
8	SITE LIGHTING - REFER TO ELECTRICAL

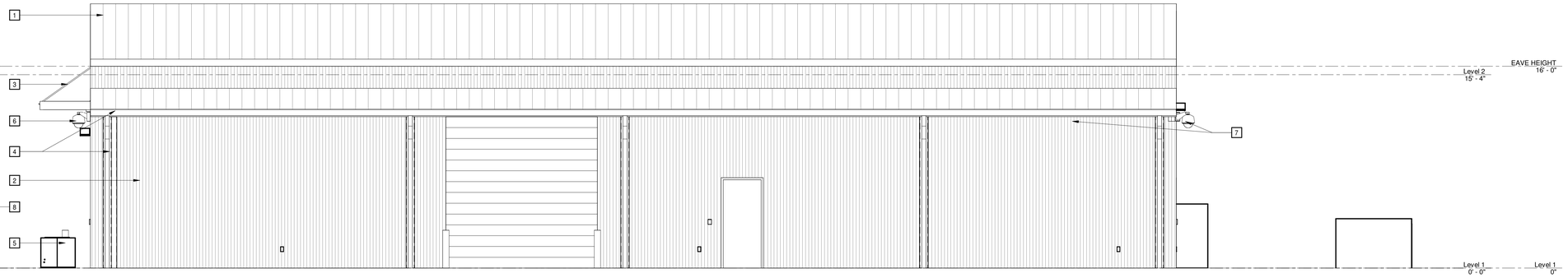
3 A2.1.1 A4.1.1 **WEST ELEVATION**

1/4" = 1'-0"



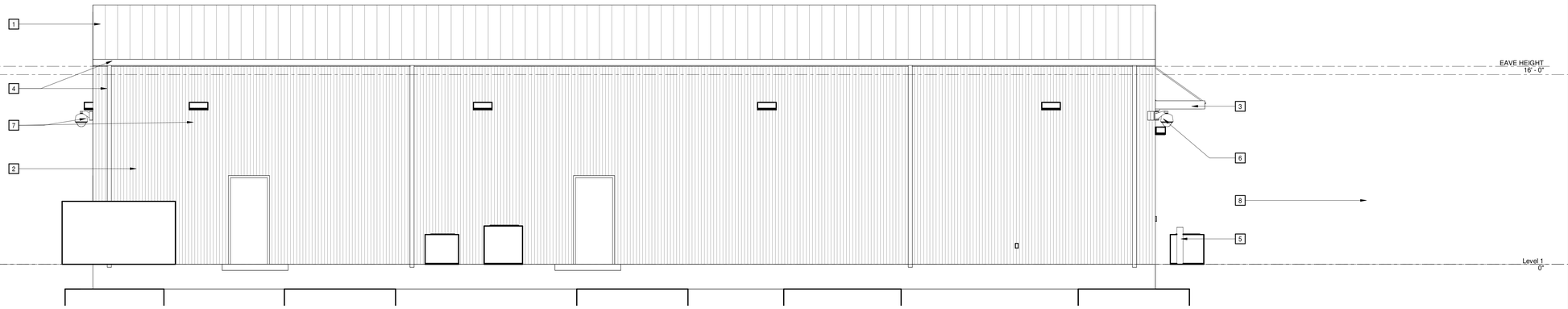
4 A2.1.1 A4.1.1 **EAST ELEVATION**

1/4" = 1'-0"



2 A2.1.1 A4.1.1 **SOUTH ELEVATION**

1/4" = 1'-0"



1 A2.1.1 A4.1.1 **NORTH ELEVATION**

1/4" = 1'-0"

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REVISIONS	
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BUILDING ELEVATIONS

A4.1.1

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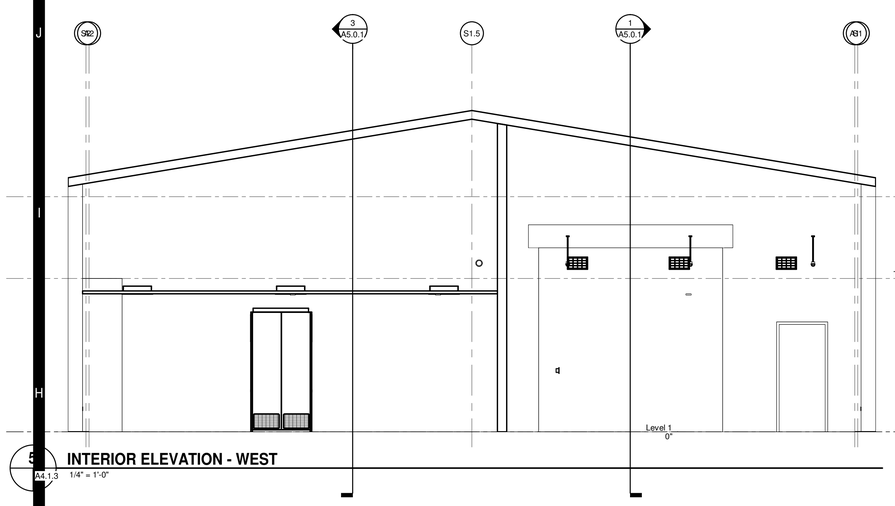
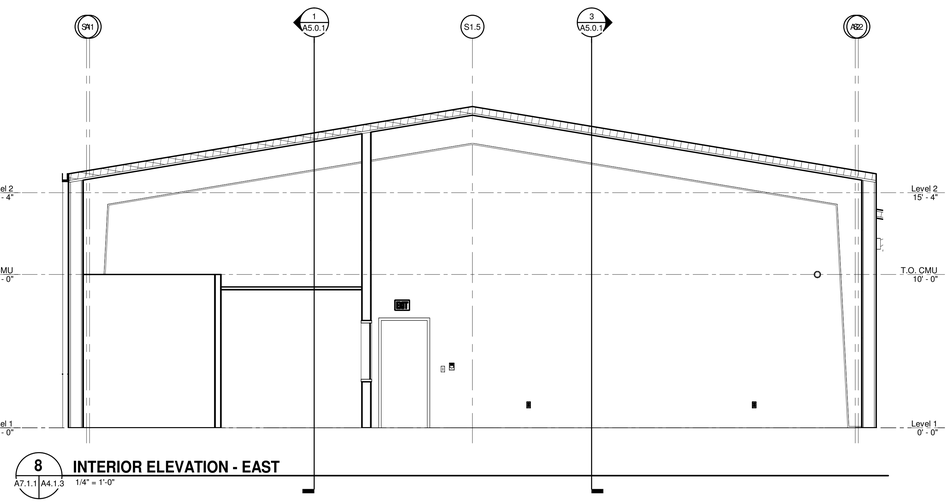
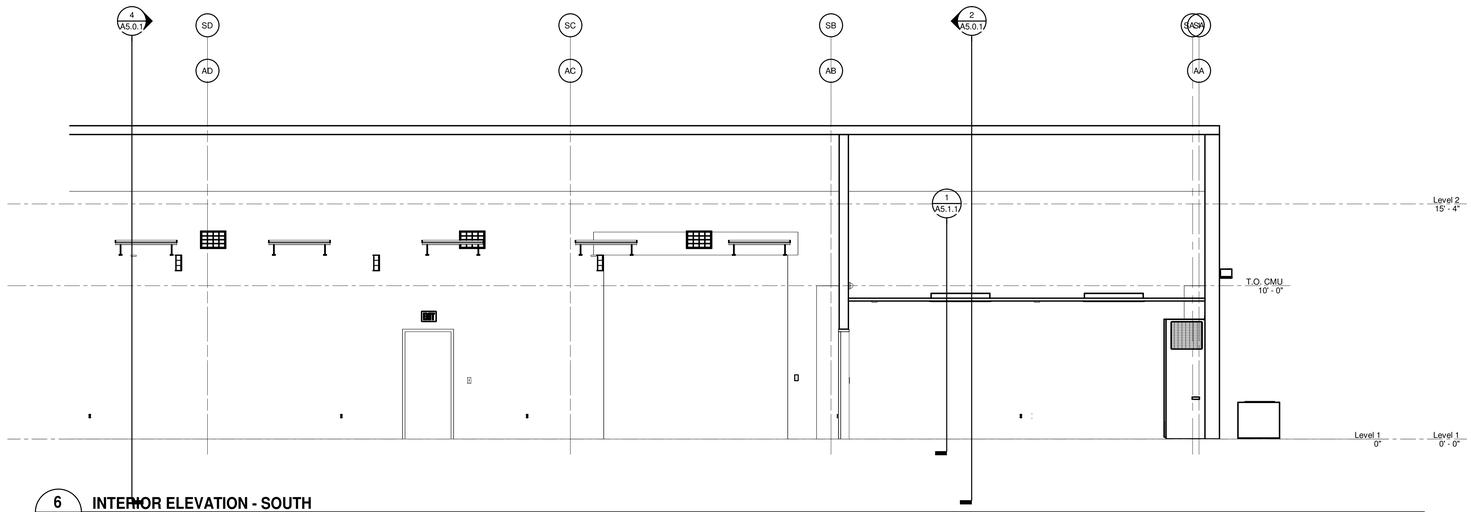


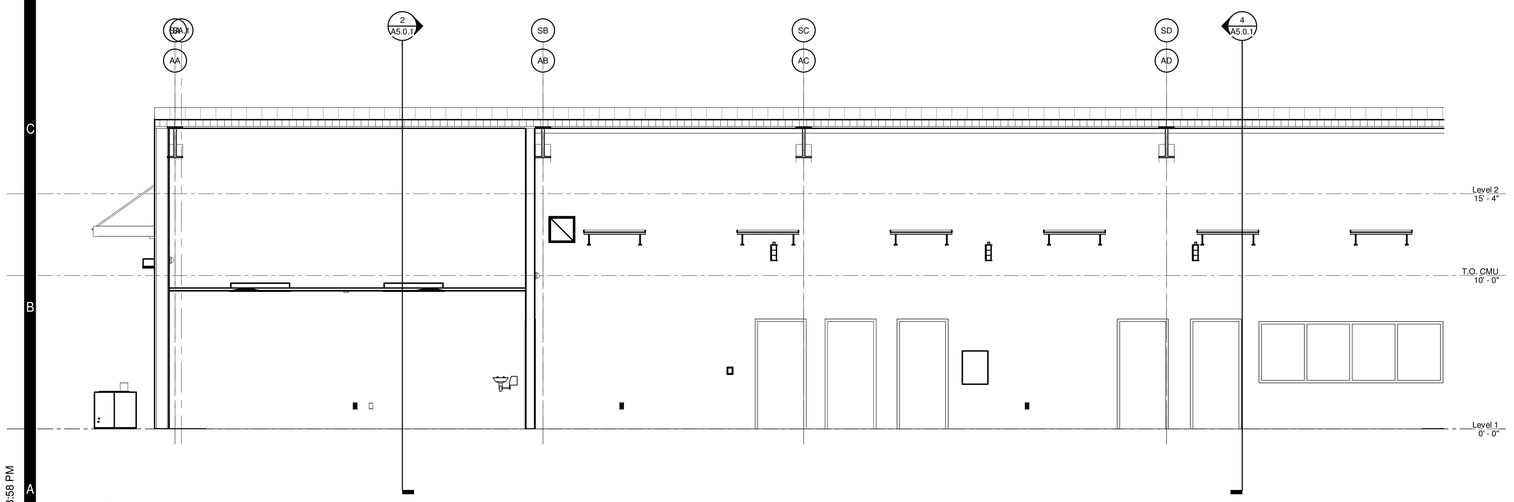
5 A4.1.3 **INTERIOR ELEVATION - WEST**
1/4" = 1'-0"



8 A7.1.1 A4.1.3 **INTERIOR ELEVATION - EAST**
1/4" = 1'-0"



6 A4.1.3 **INTERIOR ELEVATION - SOUTH**
1/4" = 1'-0"



7 A4.1.3 **INTERIOR ELEVATION - NORTH**
1/4" = 1'-0"

GENERAL NOTES

A. GENERAL NOTE 1...

B. GENERAL NOTE 2....

INTERIOR ELEVATION KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A4.2.0-A4.2.1

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REVISIONS

DATE	DESCRIPTION

INTERIOR ELEVATIONS

A4.1.3

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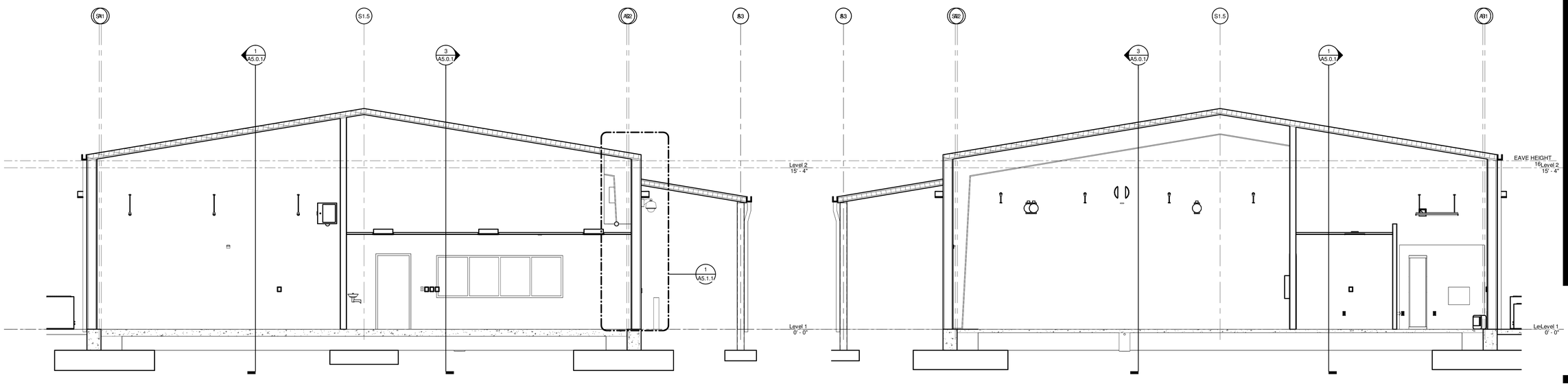
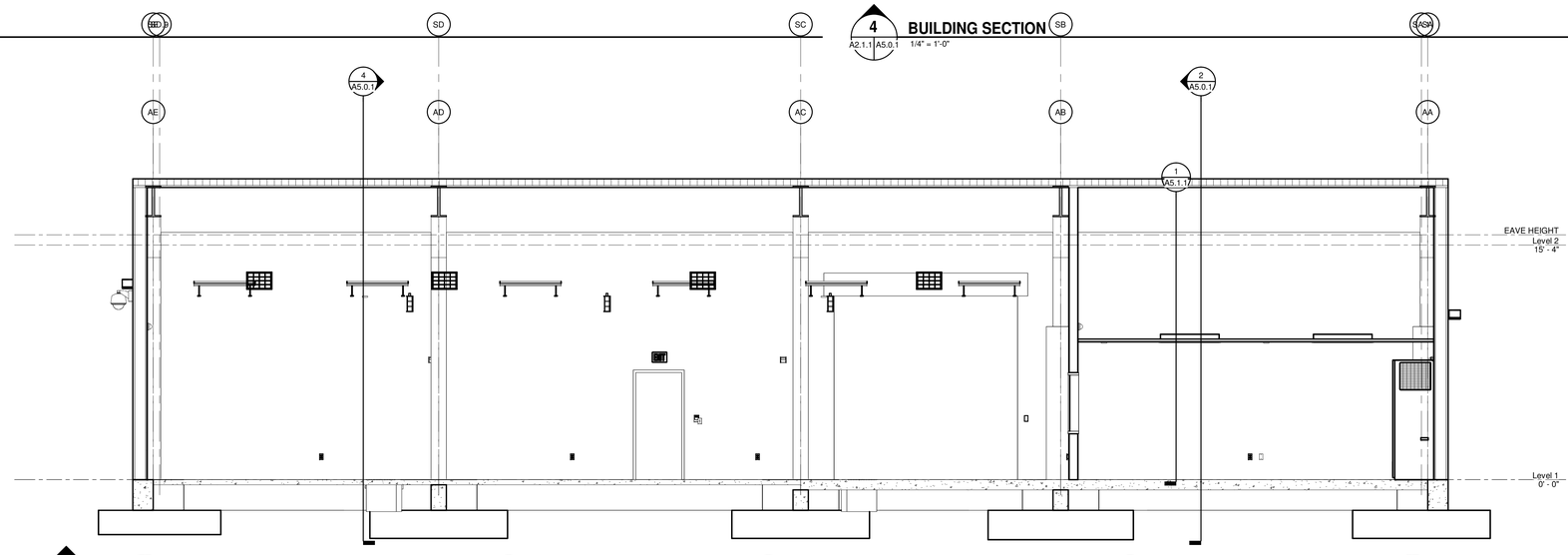
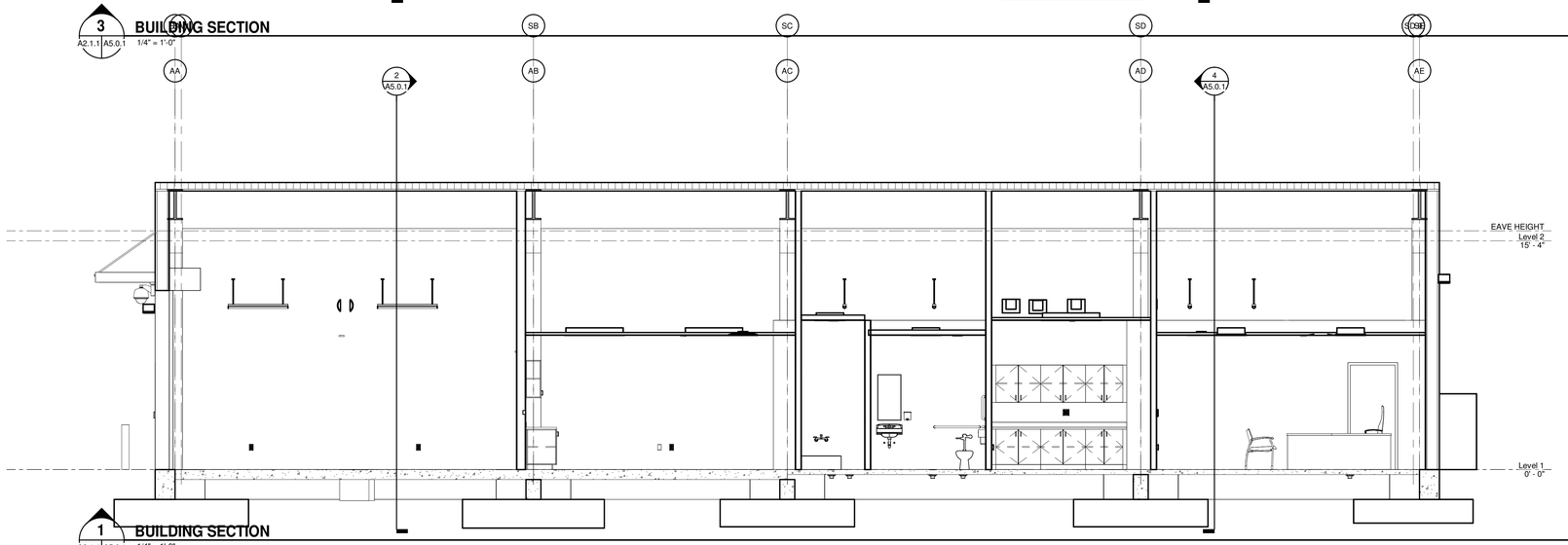


2 A2.1.1 A5.0.1 **BUILDING SECTION** 1/4" = 1'-0"

4 A2.1.1 A5.0.1 **BUILDING SECTION** 1/4" = 1'-0"



3 A2.1.1 A5.0.1 **BUILDING SECTION** 1/4" = 1'-0"



1 A2.1.1 A5.0.1 **BUILDING SECTION** 1/4" = 1'-0"

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GEORGETOWN COUNTY RE-ENTRY FACILITY

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PROJECT NO: 611315
DATE: FEBRUARY 26, 2024

REVISIONS	
DATE	DESCRIPTION

BUILDING SECTIONS

A5.0.1

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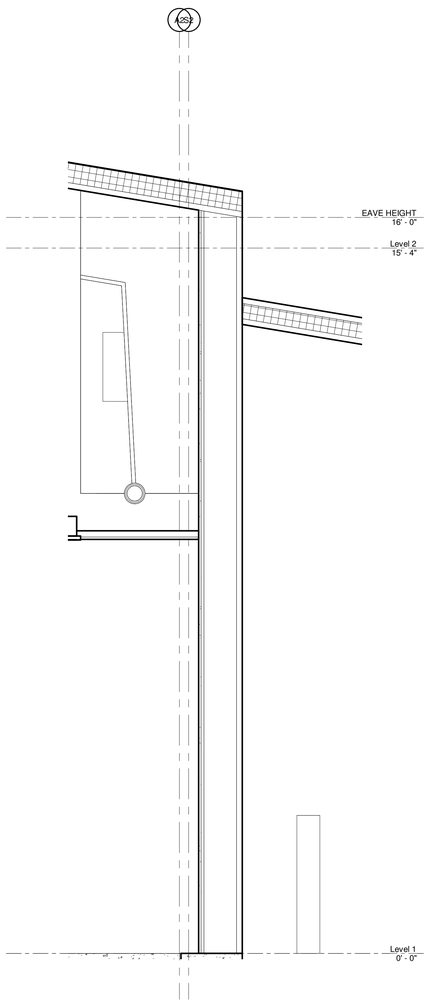


1 A2.1.1 | A5.1.1 **WALL SECTION - OVERHEAD DOOR**
3/4" = 1'-0"

GENERAL NOTES

A. GENERAL NOTE 1...

B. GENERAL NOTE 2....

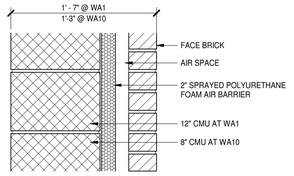
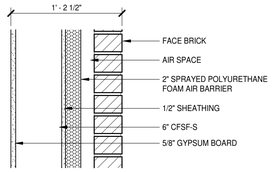
WALL SECTION KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A5.1.1 - A5.1.n

EXTERIOR WALL ASSEMBLIES

APPLIES TO A5.1 AND A5.2 SERIES OF DRAWINGS
REPRESENTED BY WAn

MARK	FIRE RATING (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
WA1	⬭		
WA2	⬭		

MARK	FIRE RATING (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
WAn	⬭		

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REVISIONS	
DATE	DESCRIPTION

WALL SECTIONS

A5.1.1

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TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLAN GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. CLEAR DIMENSIONS ARE TO FACE OF APPLIED WALL AND PARTITION FINISHES.

TOILET ASSEMBLIES

APPLIES TO DRAWINGS A7.1 - A7.nn
REPRESENTED BY (TAn)

MARK	REMARKS	PLAN
TA1		2'-10" CLEAR, UNO; D, E; 5'-0" CLEAR; * 1'-3" MIN; TOILET PARTITION; TOILET PARTITION OR WALL; WATER CLOSET
TA2	OMIT (E)	
BARRIER FREE TA3		5'-0" CLEAR; 4" MAX; B, C, D, E, A; 5'-0" CLEAR; 1'-5"; TOILET PARTITION OR WALL; WATER CLOSET
BARRIER FREE TA4	OMIT (E)	
BARRIER FREE TA5		3'-0" CLEAR; B, C, D, E; TOILET PARTITION; 5'-0" CLEAR; 1'-6"; TOILET PARTITION OR WALL; WATER CLOSET
BARRIER FREE TA6	OMIT (E)	
BARRIER FREE TA7		B, C, D, E, A; WATER CLOSET
BARRIER FREE TA8	OMIT (E)	
TA9		2'-6" CLR; URINAL SCREEN; UNO; WALL, TOILET PARTITION, OR URINAL SCREEN; 1'-10"; 1'-3" MIN; 1'-3" MIN; URINAL

MARK	REMARKS	PLAN
BARRIER FREE TA10		3'-0" CLEAR; URINAL SCREEN; WALL, TOILET PARTITION, OR URINAL SCREEN; 1'-10"; 1'-6" MIN; 1'-6" MIN; URINAL
TA11	CENTER (G) OVER LAVATORY	G, F; 1'-3" MIN; LAVATORY
BARRIER FREE TA12		C, J, L; H; 3'-0" CLR INSIDE; SEAT WALL; CONTROL WALL; 3'-0" CLR INSIDE; SHOWER - TRANSFER STYLE
TA13	OMIT (C, H, J)	
BARRIER FREE TA14		CONTROL WALL; 5'-0" CLR INSIDE; 2'-6" CLR INSIDE; N, L, K, N; SHOWER - ROLL-IN STYLE
BARRIER FREE TA15		C, P, L, M; N; 2'-6" CLR INSIDE; CONTROL WALL; 5'-0" CLR INSIDE; BATHTUB

LEGEND NOTES:

A. HANDING/ORIENTATION MAY VARY. REFER TO PLANS FOR PROPER ORIENTATION.

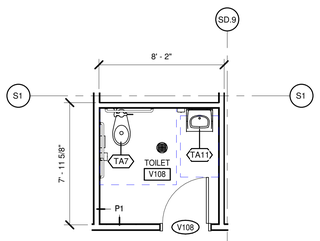
B. PLUMBING FIXTURE GRAPHICS IN THIS LEGEND ARE REPRESENTATIVE ONLY. ACTUAL PLUMBING FIXTURES MAY VARY.

C. COAT/ROBE HOOKS INDICATED ON THE BACK OF TOILET COMPARTMENT DOORS ARE PART OF THE TOILET COMPARTMENT ASSEMBLY AND ARE NOT CONSIDERED A TOILET ACCESSORY.

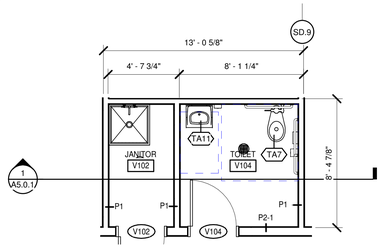
TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
D	TOILET TISSUE DISPENSER	REFER TO WATER CLOSET ELEVATIONS	
D1	42" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D2	18" VERTICAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D3	36" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D4	SANITARY NAPKIN DISPOSAL	REFER TO WATER CLOSET ELEVATIONS	
D7	MIRROR (18" x 36"), OVER LAV AND CONTERTOP	3'-4" AFF TO BOTTOM OF REFLECTIVE SURFACE	
F	SOAP DISPENSER	3'-4" AFF TO DISPENSING OUTLET	

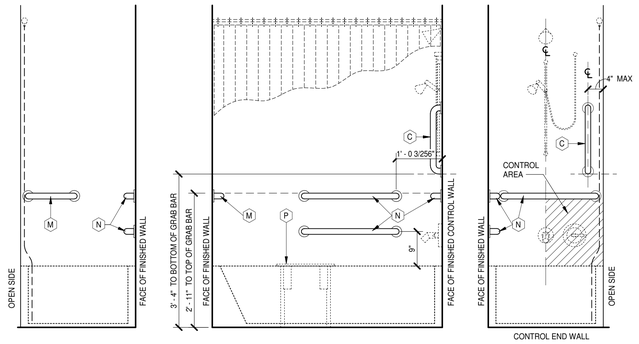
1. ACCESSORY ITEMS ARE IDENTIFIED BY (⬡) ON PLANS. LETTERS CORRESPOND TO SCHEDULE ABOVE.
2. ACTUAL DIMENSIONS OF ACCESSORIES MAY VARY. COORDINATE DIFFERENCES, IF ANY.
3. REFER TO ALL CASEWORK ELEVATIONS FOR ADDITIONAL TOILET ACCESSORY LOCATIONS.
4. PROVIDE MOP AND BROOM HOLDER W/ SHELF (⬡) AT ALL CUSTODIAL/JANITORIAL SINKS. MOUNT AT 5'-0" AFF TO CENTERLINE AND LOCATE ON SIDE WALL OF SINK (NOT ON WALL ABOVE FAUCET).
5. PROVIDE ROBE HOOK ON INTERIOR FACE OF ALL TOILET ROOM DOORS WHEREIN ONLY ONE WATER CLOSET IS PROVIDED. MOUNT AT 3'-11" AFF TO TOP.



5 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"

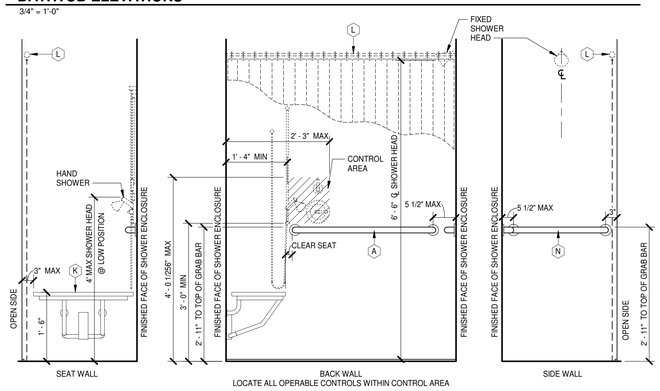


2 A2.1.1 A7.1.1 **ENLARGED PLAN** 1/4" = 1'-0"



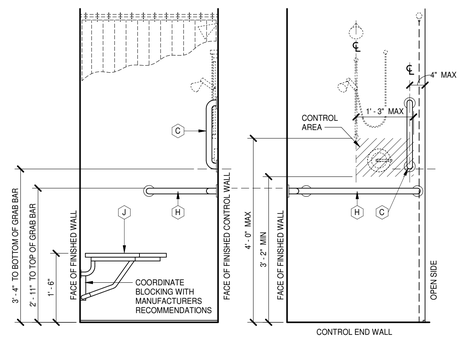
BATHTUB ELEVATIONS

3/4" = 1'-0"



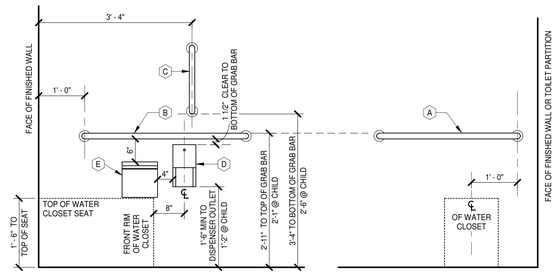
ROLL-IN SHOWER ELEVATIONS

3/4" = 1'-0"



TRANSFER-TYPE SHOWER ELEVATIONS

3/4" = 1'-0"



WATER CLOSET ELEVATIONS

3/4" = 1'-0"

MOSELEYARCHITECTS
6210 ARDREY KELL ROAD • THE HUB AT WAVERLY, SUITE 425 • CHARLOTTE, NC 28277
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MOSELEYARCHITECTS.COM

GEORGETOWN COUNTY RE-ENTRY FACILITY

611315 GEORGETOWN COUNTY

PROJECT NO: 611315
DATE: FEBRUARY 26, 2024

REVISIONS	
DATE	DESCRIPTION

TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLANS

A7.1.1

2/26/2024 7:39:01 PM

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	HSS	HOLLOW STRUCTURAL SECTION
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	HT	HEIGHT
AFF	ABOVE FINISHED FLOOR	ID	INSIDE DIAMETER
ALUM	ALUMINUM	IN	INCH
APPROX	APPROXIMATE	INFO	INFORMATION
ARCH	ARCHITECTURAL, ARCHITECT	INT	INTERIOR
AVG	AVERAGE	JBE	JOIST BEARING ELEVATION
BLDG	BUILDING	JS	JOIST SUBSTITUTE
BM	BEAM	JST	JOIST
BMC	BUILDING MOUNTED CANOPIES	JT	JOINT
BOT	BOTTOM	K	KIP
BRG	BEARING	LBS	POUNDS
BTWN	BETWEEN	LF	LINEAR FEET (FOOT)
CANT	CANTILEVER	LLH	LONG LEG HORIZONTAL
CFSF	COLD FORMED STEEL FRAMING	LLV	LONG LEG VERTICAL
CIP	CAST IN PLACE	M	METER(S)
CJ	CONTROL JOINT	MAS	MASONRY
CLG	CEILING	MATL	MATERIAL
CLR	CLEAR	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MBMA	METAL BUILDING MANUFACTURER'S ASSOC
COL	COLUMN	MBS	METAL BULIDNG SYSTEM
CONC	CONCRETE	MECH	MECHANICAL
CONN	CONNECTION	MFR	MANUFACTURER
CONSTR	CONSTRUCTION	MIN	MINIMUM
CONT	CONTINUOUS	MM	MILLIMETER(S)
CTR	CENTER	NOM	NOMINAL
DBA	DEFORMED BAR ANCHOR	NS	NON SHRINK
DBL	DOUBLE	OC	ON CENTER
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DIAG	DIAGONAL	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
DIM	DIMENSION	OPNG	OPENING
DN	DOWN	OPP	OPPOSITE
DWG	DRAWING	PAF	POWDER-ACTUATED FASTENERS
EA	EACH	PC CONC	PRECAST CONCRETE
EF	EACH FACE	PEMB	PRE-ENGINEERED METAL BUILDING
EJ	EXPANSION JOINT	PFBC	PRE-FABRICATED BUILDING COLUMN
EL	ELEVATION	PLF	POUNDS PER LINEAR FOOT
ELECT	ELECTRICAL	POLY	POLYETHYLENE
ELEV	ELEVATOR	PPT	PRESSURE PRESERVATIVE TREATED
EOD	EDGE OF DECK	PSF	POUNDS PER SQUARE FOOT
EOS	EDGE OF SLAB	PTFE	POLYTETRAFLUOROETHYLENE
EQ	EQUAL	R	RADIUS
EW	EACH WAY	RD	ROOF DRAIN
EX	EXISTING	REF	REFERENCE
EXP	EXPANSION	REINF	REINFORCING, REINFORCED
EXT	EXTERIOR	REQ'D	REQUIRED
FB	FIXED BASE	SIM	SIMILAR
FD	FLOOR DRAIN	SL	SLOPE
FDN	FOUNDATION	SOG	SLAB ON GRADE
FF	FINISHED FLOOR	SPA	SPACES
FIN	FINISHED	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FOB	FACE OF BRICK	STIFF	STIFFENER
FOC	FACE OF CONCRETE	STRUCT	STRUCTURAL
FOM	FACE OF MASONRY	SUSP	SUSPENDED
FRMG	FRAMING	SYM	SYMMETRY(RICAL)
FRT	FIRE RETARDANT TREATED	T&B	TOP AND BOTTOM
FT	FOOT	T&G	TONGUE AND GROOVE
FTG	FOOTING	TF	TRANSFER FORCE
GA	GAGE	TOC	TOP OF CONCRETE
GALV	GALVANIZED	TOS	TOP OF STEEL
GB	GRADE BEAM	TOSL	TOP OF SLAB
GC	GENERAL CONTRACTOR	TOW	TOP OF WALL
GRD	GRADE	TYP	TYPICAL
HD	HEADED	UNO	UNLESS NOTED OTHERWISE
HK	HOOK	VB	VAPOR BARRIER
HORIZ	HORIZONTAL	VERT	VERTICAL
HS	HIGH STRENGTH	VR	VAPOR RETARDER
		WP	WORK POINT
		WWF	WELDED WIRE FABRIC

PLAN LEGEND

℄	CENTERLINE
JBE (+X'-X")	JOIST BEARING ELEVATION
BP1, BP2 ...	BEAM BEARING PLATE
BP-A, BP-B ...	COLUMN BASE PLATE
H1, H2 ...	WOOD HEADER
J1, J2 ...	WOOD JOIST
T-1, T-2 ...	TRUSS
WP1, WP2 ...	WOOD POST
P-1, P-2 ...	CONCRETE PIER
JS	JOIST SUBSTITUTE
KCS	CONSTANT SHEAR JOIST
SP	SPECIAL JOIST
(symbol)	WALL FOOTING STEP
-X'-X"	TOP OF FOOTING ELEVATION
WP (symbol)	WORK POINT
(X'-X")	TOP OF SLAB ELEVATION
L1, L2 ...	LINTEL
X.X	COLUMN FOOTING
(+X'-X")	TOP OF STEEL BEAM ELEVATION
(J)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE IN SAME PLANE AS TOP OF JOIST
(SL)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE SLOPED
WFX.X	WALL FOOTING
(symbol)	THICKENED SLAB
*	STEEL JOIST BOTTOM CHORD EXTENSION, WELDED
(symbol)	STEEL BEAM MOMENT CONNECTION
(EX)	EXISTING
TF	TRANSFER FORCE
#5@48"	CMU WALL REINFORCING SIZE AND SPACING
(symbol)	CHANGE IN SLAB ELEVATION
TCX	TOP CHORD EXTENSION

DESIGN LOAD DATA

1. CLASSIFICATION OF BUILDING
   RISK CATEGORY (2021 SCBC TABLE 1604.5) — II

2. FLOOR LIVE LOADS

	UNIFORM	CONCENTRATED
OFFICE	50 PSF	2000 LB
CLASSROOM	50 PSF	2000 LB
MAINTENANCE / SHOP	100 PSF	2000 LB
MECHANICAL / ELECTRICAL ROOM	150 PSF	

   CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.

   REDUCTION OF FLOOR LIVE LOAD HAS NOT BEEN UTILIZED.

3. ROOF LIVE LOADS

   MINIMUM ROOF LIVE LOAD — 20 PSF — 300 LB

   CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.

   REDUCTION OF MINIMUM ROOF LIVE LOAD HAS NOT BEEN UTILIZED.

4. ROOF SNOW LOAD

GROUND SNOW LOAD (Pg)	5 PSF
IMPORTANCE FACTOR (Is)	1.0
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.0
FLAT ROOF SNOW LOAD (Pf = 0.7 x Ce x Ct x Is x Pg)	3.5 PSF
MINIMUM Pf FOR Pg = 20 PSF OR LESS	
Pf min = I x Pg	5 PSF
SLOPED ROOF SNOW LOAD (Ps = Cs x Pf)	3.5 PSF

5. WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED (3 SECOND GUST)	145 MPH
NOMINAL DESIGN WIND SPEED (3 SECOND GUST)	112 MPH
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT (GCpi)	±0.18 (ENCLOSED)
COMPONENTS AND CLADDING WIND PRESSURE	REFER TO DRAWING S0.0.2 (PER IBC & ASCE7)

6. SEISMIC DESIGN DATA

SEISMIC DESIGN CATEGORY	D
SEISMIC IMPORTANCE FACTOR (Ie)	1.0
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATIONS	
(Ss)	0.475
(S1)	0.158
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
(Sds)	0.45
(Sd1)	0.24
BASIC SEISMIC FORCE RESISTING SYSTEM:	C. MOMENT-RESISTING FRAME SYSTEMS 4. STEEL ORDINARY MOMENT FRAMES
RESPONSE MODIFICATION COEFFICIENT (R)	3.5
SYSTEM OVERSTRENGTH FACTOR	3.0
DEFLECTION AMPLIFICATION FACTOR	3.0
SEISMIC RESPONSE COEFFICIENT (Cs)	0.1285
DESIGN BASE SHEAR (V = Cs x W)	0.1285W
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE

LEGEND FOR SECTION AND DETAIL MARKS

SECTION AND DETAIL (WHERE DRAWN)

1 / S2.1 / S4.2 / S2.2 / S2.3

- SECTION OR DETAIL NUMBER
- DRAWING NUMBER WHERE SECTION OR DETAIL IS DRAWN
- DRAWING NUMBER WHERE SECTION OR DETAIL IS CUT
- ADDITIONAL DRAWING NUMBERS WHERE SECTION OR DETAIL IS CUT

SECTION WHERE CUT

1 / S2.1
- SECTION NUMBER
- DRAWING NUMBER WHERE SECTION IS DRAWN

DETAIL WHERE CUT

A / S2.1
- DETAIL LETTER
- DRAWING NUMBER WHERE DETAIL IS DRAWN

STRUCTURAL MATERIALS LEGEND

- EARTH
- CAST IN PLACE CONCRETE
- CLAY BRICK
- HOLLOW CONCRETE BLOCK
- SPLIT-FACE CONCRETE BLOCK
- GROUT FILLED CONCRETE BLOCK
- PRECAST CONCRETE, CAST STONE
- POROUS FILL OR GRANULAR BASE COURSE

GENERAL

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SOUTH CAROLINA BUILDING CODE (SCBC, 2021 EDITION), EFFECTIVE JANUARY 1, 2023.
2. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE OTHER ENGINEERING DISCIPLINES.
3. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUANTITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
4. VERIFY AND COORDINATE MECHANICAL UNIT SUPPORTS AND OPENINGS WITH EQUIPMENT PURCHASED FOR THE PROJECT. COORDINATE REQUIREMENTS FOR SLEEVES, HANGERS, INSERTS, ANCHORS AND ALL OTHER ITEMS TO BE SET IN STRUCTURAL WORK.
5. SPECIAL INSPECTIONS ARE REQUIRED BY THE SCBC, SECTION 1704.
   REFER TO THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THIS PROJECT AND THE PROJECT SPECIFICATIONS FOR SPECIFIC INSPECTION REQUIREMENTS.
   REFER TO SPECIFICATION SECTION 014000 FOR GENERAL INSPECTION REQUIREMENTS. SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS IN COMPLIANCE WITH IBC SECTION 1704.2.4. USE OF "GENERAL CONFORMANCE" OR "GENERAL ACCORDANCE" IS UNACCEPTABLE.
6. CONTRACTOR SHALL CONDUCT PRE-INSTALL MEETINGS ON PROJECT SITE PRIOR TO COMMENCEMENT OF WORK. REFER TO PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. GENERAL CONTRACTOR WILL CONDUCT THE MEETING AND SHALL BE RESPONSIBLE FOR THE ATTENDANCE OF ALL REQUIRED TRADES AND SUBCONTRACTORS INCLUDING THE SPECIAL INSPECTOR.

FOUNDATIONS

1. FOUNDATIONS ARE DESIGNED TO BEAR ON CONTROLLED COMPACTED FILL WITH AN ALLOWABLE BEARING CAPACITY OF 2,000 PSF. FOUNDATION DESIGN CRITERIA IS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY S&ME, INC. DATED JANUARY 31, 2024.
2. THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY SHALL VERIFY BEARING CAPACITY AND SUITABILITY OF SUBGRADE PRIOR TO PLACING FOUNDATIONS AND GRADE SLABS.
3. SELECT AND PLACE CONTROLLED COMPACTED FILL UNDER DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY.
4. COORDINATE TOP OF FOOTING ELEVATIONS WITH ACTUAL LOCATION, SIZE AND INVERT OF ALL UNDERGROUND PIPE (AND CONDUIT). IF UNDERGROUND PIPE (AND CONDUIT) MUST CROSS FOOTING, TOP OF FOOTING ELEVATION SHALL ALLOW UNDERSLAB PIPING TO PASS ABOVE THE FOOTING.
5. AVOID INFLUENCE OF PIPE TRENCH ADJACENT TO COLUMN FOOTING. REFER TO "FOOTING EXCAVATION LIMITS".
6. PROTECT FOOTINGS AND GRADE SLABS FROM FROST HEAVE UNTIL BUILDING IS PERMANENTLY ENCLOSED.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".
2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTHS (F'c), AS FOLLOWS:

CONCRETE MATERIAL SCHEDULE (NOTE 11)

BUILDING ELEMENT	DURABILITY REQUIREMENTS CATEGORIES AND CLASSES (NOTE 3)				f'c (psi) 28 DAY STRENGTH	MAX W/C (NOTE 4)	AIR ENTRAINMENT (NOTE 5)	UNIT WEIGHT PCF (NOTE 6)	MAX AGGREGATE (NOTE 7 & 9)	CEMENT (ASTM C150)	CL % (NOTE 10)
	(F)	(S)	(W)	(C)							
SPREAD FOOTINGS AND WALL FOOTINGS	F0	S0	W0	C1	3,500	0.55	4.5	145	1 1/2"	II	0.30
INTERIOR SLABS ON GRADE	F0	S0	W0	C0	3,500	0.50	N/A	145	3/4"	I / II	0.30
INTERIOR COLUMNS, WALLS AND PIERS	F1	S0	W0	C1	4,000	0.50	5.0	145	3/4"	I / II	0.30
EXTERIOR SLABS ON GRADE	F1	S0	W1	C1	3,500	0.55	5.0	145	3/4"	I / II	0.30
EXTERIOR COLUMNS, WALLS AND PIERS	F1	S0	W1	C1	4,000	0.50	6.0	145	3/4"	I / II	0.30
TIE BEAMS	F1	S0	W0	C1	4,000	0.50	N/A	145	3/4"	I / II	0.30

3. THE DURABILITY EXPOSURE CLASS IDENTIFIED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ACI 318, FOR EACH MIX DESIGN/BUILDING ELEMENT AND EXPOSURE CLASS, IS BASED ON ASSUMED SEVERITY OF THE ANTICIPATED EXPOSURE. IF THE CONCRETE IS TO BE INSTALLED IN A LOCATION OR CONDITION THAT IS MORE SEVERE THAN THE EXPOSURE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR ADJUST THE CONCRETE MIX REQUIREMENTS AS REQUIRED PER ACI 318.
   A. EXPOSURE CATEGORIES:
      - (F) FREEZE/THAW
      - (S) SULFATE
      - (W) WATER/PERMEABILITY
      - (C) CORROSION PROTECTION
4. MAX W/C REFERS TO MAXIMUM WATER TO CEMENTITIOUS MATERIALS RATIO. MIXING WATER SHALL CONFORM TO ASTM C1602.
5. TARGET AIR ENTRAINMENT, ±1.5%. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED. AIR ENTRAINMENT IS OPTIONAL FOR FOOTINGS AND GRADE BEAMS NOT EXPOSED TO FREEZING.
6. DRY UNIT WEIGHT ±5 PCF. AGGREGATES TO CONFORM TO ASTM C33 FOR NORMAL WEIGHT CONCRETE (NWC).
7. CONCRETE BUILDING ELEMENTS IDENTIFIED WITH EXPOSURE CATEGORY F3 REQUIRE LIMITATIONS ON CEMENTITIOUS MATERIALS AS FOLLOWS:

CEMENTITIOUS MATERIAL	MAX % OF TOTAL CEMENTITIOUS MATERIALS BY MASS
FLY ASH (ASTM C618)	25
SLAG CEMENT (ASTM C989)	50
SILICA FUME (ASTM C1240)	10
TOTAL FLY ASH, OTHER POZZOLANS AND SILICA FUME	35
TOTAL FLY ASH, OTHER POZZOLANS, SILICA FUME AND SLAG	50

8. SLABS RECEIVING A HARD TROWEL FINISH SHALL NOT BE AIR-ENTRAINED AND SHALL HAVE A TOTAL AIR CONTENT OF NOT MORE THAN 3%.
9. COMBINED AGGREGATE GRADING SHALL BE AS FOLLOWS:
   - FOR COARSE AGGREGATE WITH 1 1/2" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 18% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.
   - FOR COARSE AGGREGATE WITH 3/4" OR 1" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 22% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.
10. MAX WATER SOLUBLE CHLORIDE ION CONTENT PERCENTAGE, BY WEIGHT OF CEMENT.
11. CONCRETE MIXTURE PROPORTIONS SHALL BE ESTABLISHED IN ACCORDANCE WITH ARTICLE 4.2.3 OF ACI 301 OR BY AN ALTERNATIVE METHOD ACCEPTABLE TO THE ENGINEER OF RECORD. EACH MIX DESIGN SHALL IDENTIFY THE INTENDED LOCATION OF USE.
12. REINFORCING STEEL SHALL BE AS FOLLOWS:
   - REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED
   - WELDED WIRE FABRIC: ASTM A1064, SHEET TYPE ONLY
   - WELDABLE REINFORCING BARS: ASTM A706 LOW ALLOW STEEL REINFORCING BARS, DEFORMED
   - DEFORMED BAR ANCHORS (DBA): ASTM A1064, DEFORMED
   - WELDING PER AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL
13. MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE UNO:
   A. UNFORMED SURFACE CAST AGAINST EARTH — 3 IN
   B. FORMED SURFACE EXPOSED TO EARTH/WEATHER — 2 IN
   C. FORMED SLABS AND WALLS NOT EXPOSED TO EARTH/WEATHER FOR #11 AND SMALLER BAR — 3/4 IN
   D. ALL OTHER FORMED ELEMENTS NOT EXPOSED TO EARTH/WEATHER — 1 1/2 IN

ACI 318 LAP LENGTHS

SPLICES IN THE REINFORCING STEEL SHALL BE ONLY AT THE LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 CHAPTER 25 AS INDICATED BELOW. TOP BAR LAPS (HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR) SHALL BE MODIFIED BY A MULTIPLICATION OF 1.3 TIMES THE LENGTHS LISTED IN THE TABLE BELOW. LENGTHS INDICATED IN INCHES.

NORMAL-WEIGHT (145 PCF)

f'c (psi)	#3	#4	#5	#6	#7	#8	#9
3000	21	28	36	43	62	71	80
3500	20	26	33	40	58	66	74
4000	18	25	31	37	54	62	69
5000	17	22	28	33	48	55	62

FIBER REINFORCING

1. SYNTHETIC MACRO-FIBER MAY BE SUBSTITUTED FOR WELDED WIRE FABRIC IN SLAB-ON-GRADE, AND SHALL CONFORM TO ASTM C1116, TYPE III SYNTHETIC FIBER REINFORCED CONCRETE.

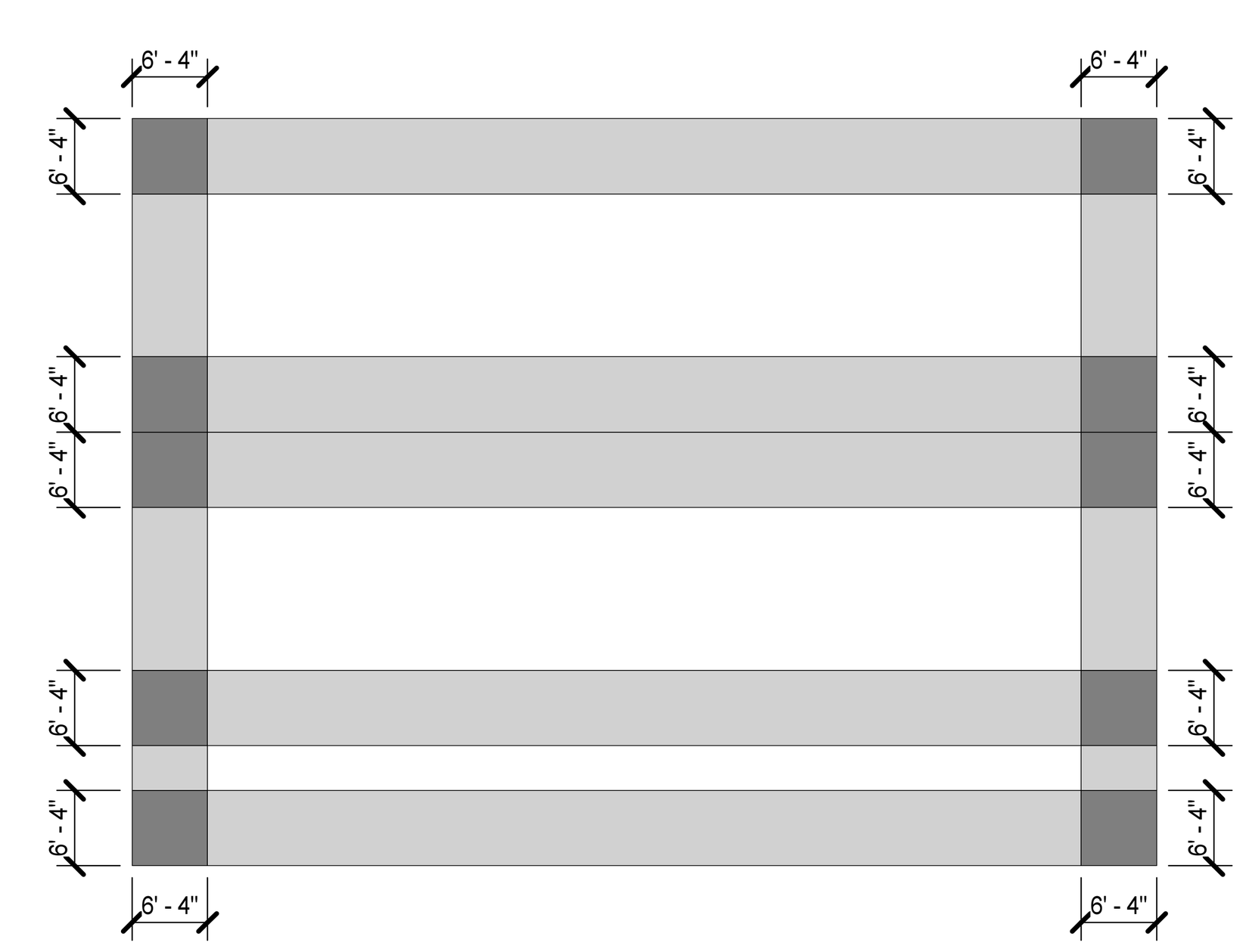
   DOSAGE RATES SHALL BE DETERMINED BY FIBER MANUFACTURER TO PROVIDE FRC EQUIVALENT FLEXURAL STRENGTH (FE,3) EQUAL TO THE PERFORMANCE OF THE REINFORCING STEEL INDICATED FOR EACH SLAB CASE. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM C1609. DOSAGE SHALL NOT BE LESS THAN 3 LB PER CU YD IN ANY CASE.
2. FIBER SHALL BE ADDED AT THE CONCRETE BATCH PLANT.
3. FIBER SHALL BE INCLUDED IN THE CONCRETE MIX DESIGNS SUBMITTED FOR REVIEW.

FLOWABLE FILL

1. CONTROLLED LOW STRENGTH MATERIAL (CLSM), ALSO REFERRED TO AS FLOWABLE FILL, MAY BE SUBMITTED FOR APPROVAL AS A SUBSTITUTE FOR COMPACTED FILL AT FOUNDATION UNDERCUT LOCATIONS. THE CLSM MIXTURE SHALL BE PROPORTIONED TO PRODUCE AN UNCONFINED COMPRESSIVE STRENGTH OF 100 PSI MINIMUM TO 300 PSI MAXIMUM.

METAL BUILDING SYSTEM

1. THE DESIGN SHALL BE THE RESPONSIBILITY OF THE PRE-ENGINEERED BUILDING MANUFACTURER AND SHALL BE PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA.
2. DESIGN CRITERIA
   A. PRIMARY AND SECONDARY STRUCTURAL MEMBERS AND EXTERIOR COVERING MATERIALS: METAL BUILDING MANUFACTURER'S ASSOCIATION'S (MBMA) "DESIGN PRACTICES MANUAL".
   B. STRUCTURAL STEEL MEMBERS: AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S (AISC) "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
   C. LIGHT GAGE STEEL MEMBERS: AMERICAN IRON AND STEEL INSTITUTE'S (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND "DESIGN OF LIGHT GAGE STEEL DIAPHRAGMS".
   D. FOR WELDED CONNECTIONS: AMERICAN WELDING SOCIETY'S (AWS) "STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION".
3. DESIGN LOADS: BASIC DESIGN LOADS, AS WELL AS AUXILIARY AND COLLATERAL LOADS, ARE INDICATED BELOW.
   A. GRAVITY LIVE LOADS, WIND AND SEISMIC LOADS AS INDICATED IN "DESIGN LIVE LOADS" SECTION OF THESE NOTES.
   B. BASIC DESIGN LOADS INCLUDE, IN ADDITION TO DEAD LOAD, LIVE LOAD, WIND LOAD, SEISMIC LOAD, CRANE LOAD WHERE INDICATED ON THE DRAWINGS.
   C. AUXILIARY LOADS INCLUDE DYNAMIC LIVE LOADS SUCH AS THOSE GENERATED BY CRANES AND MATERIALS HANDLING EQUIPMENT.
   D. COLLATERAL LOADS INCLUDE ADDITIONAL DEAD LOADS OVER AND ABOVE THE WEIGHT OF THE METAL BUILDING SYSTEM SUCH AS MECHANICAL SYSTEMS, LIGHTING, MEZZANINE FLOOR LOADS.
   E. DESIGN EACH MEMBER TO WITHSTAND STRESSES RESULTING FROM COMBINATIONS OF LOADS THAT PRODUCE ALLOWABLE STRESSES IN THAT MEMBER, AS PRESCRIBED IN MBMA'S "DESIGN PRACTICES MANUAL".
   F. THE PRE-ENGINEERED BUILDING COLUMNS SHALL HAVE PINNED BASES AND SHALL TRANSFER NO MOMENTS TO THE FOUNDATIONS
4. SUBMIT COMPLETE DESIGN CALCULATIONS AND ERECTION DRAWINGS SHOWING ANCHOR BOLT SETTINGS, SIDEWALL, ENDWALL, AND ROOF FRAMING, TRANSVERSE CROSS SECTIONS, COVERING AND TRIM DETAILS, AND ACCESSORY INSTALLATION DETAILS TO CLEARLY INDICATE PROPER ASSEMBLY OF BUILDING COMPONENTS.
5. DESIGN CALCULATIONS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA.
6. REFER TO ARCHITECTURAL ROOF PLAN FOR LOCATION OF MECHANICAL UNITS TO BE SUPPORTED FROM THE ROOF PURLINS. REFER TO MECHANICAL DRAWINGS FOR UNIT WEIGHTS. GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.



COMPONENTS AND CLADDING ROOF WIND PRESSURE DIAGRAM

COMPONENTS AND CLADDING DESIGN PRESSURE (ULTIMATE DESIGN PSF)

ZONE	AREA ≤ 10 FT²	AREA ≤ 25 FT²	AREA ≤ 50 FT²	AREA ≤ 100 FT²
1	43 PSF / -101 PSF	40 PSF / -93 PSF	37 PSF / -68 PSF	34 PSF / -42 PSF
2	43 PSF / -141 PSF	40 PSF / -119 PSF	37 PSF / -101 PSF	34 PSF / -84 PSF
3	43 PSF / -165 PSF	40 PSF / -136 PSF	37 PSF / -115 PSF	34 PSF / -94 PSF
4	58 PSF / -61 PSF	55 PSF / -59 PSF	53 PSF / -57 PSF	52 PSF / -55 PSF
5	58 PSF / -72 PSF	55 PSF / -67 PSF	53 PSF / -63 PSF	52 PSF / -60 PSF

COMPONENTS AND CLADDING ROOF WIND PRESSURE DIAGRAM NOTES:

1. PRESSURE INDICATED ARE FOR ALLOWABLE STRESS DESIGN PER ASCE 7-16.
2. EFFECTIVE WIND AREA SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7-16.
3. REDUCTION FACTORS FOR EFFECTIVE WIND AREAS ARE ALLOWED AS DEFINED BY TABLE 30.6.2 OF ASCE 30.6.2 OF ASCE 7-16.
4. ROOF ZONE 1, UNLESS OTHERWISE INDICATED.
5. ZONE 2 INDICATED BY:
6. ZONE 3 INDICATED BY:
7. INTERIOR REGIONS OF WALLS ARE ZONE 4 AND CORNER REGIONS OF WALLS ARE ZONE 5.
8. (+) INDICATES PRESSURES ACTING TOWARDS ROOF (INWARDS),
   (-) INDICATES PRESSURES ACTING AWAY FROM ROOF (OUTWARDS).
9. ROOF DEAD LOAD SHALL BE TAKEN AS 10 PSF FOR UPLIFT RESISTANCE.
10. ROOF OVERHANGS SHALL BE DESIGNED FOR THE OVERHANGS PRESSURE FOR THE ZONE IN WHICH THEY ARE LOCATED. POSITIVE PRESSURE SHOWN IS FOR THE ROOF. SOFFITS SHALL BE DESIGNED FOR THE CORRESPONDING WALL POSITIVE PRESSURE.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING AISC DOCUMENTS:
   AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
   AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
   AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS"
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE SHAPES AND ANGLES	ASTM A992 (FY=50 KSI)
MISCELLANEOUS SHAPES, PLATES & BARS (TO 8" THICK)	ASTM A36 (FY=36 KSI)
HOLLOW STRUCTURAL SECTIONS (HSS)	
SQUARE & RECTANGLE	ASTM A500, GRADE C (FY=50 KSI)
ROUND	ASTM A500 GRADE C (FY=46 KSI)
HIGH STRENGTH BOLTS (CONVENTIONAL)	ASTM F3125 GRADE A325 OR A490 (TYPE 1)
WASHERS	ASTM F436 (FLAT AND BEVELED)
HEAVY HEX NUTS	ASTM A563
TWIST OFF TENSION CONTROL BOLTS	ASTM F3125 GRADE F1852 OR F2280 (TYPE 1)
COMPRESSIBLE-WASHER DIRECT-TENSION INDICATORS	ASTM F959 (TYPE 325 OR 490)
ANCHOR RODS	ASTM F1554, GRADE 55 INCLUDE SUPPLEMENT S1
WELDING ELECTRODES	E70 (LOW HYDROGEN)
HEADED SHEAR STUDS	AWS D1.1 CLAUSE 9, TYPE B (FY=51 KSI)
THREADED ROD	ASTM A36
CLEVISES	AISI C-1035, ASTM A668, CLASS A
TURNBUCKLES	AISI C-1035, ASTM A668, CLASS C

3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
4. WHERE STRUCTURAL STEEL IS EXPOSED BELOW GRADE, PROVIDE MINIMUM 3" CONCRETE COVER OR COAT WITH BITUMINOUS MASTIC.
5. STRUCTURAL STEEL EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS NOTED OTHERWISE.

COLD FORMED STEEL FRAMING

1. ALL STRUCTURAL COLD FORMED STEEL FRAMING (CFSF) SHALL COMPLY WITH AISI'S "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
2. CFSF-S (STRUCTURAL): INCLUDES ALL EXTERIOR WALLS, SOFFITS, BULKHEADS, TRUSSES, RAFTERS, JOISTS AND CEILING JOISTS (IF SELF-SUPPORTING). PROVIDE ENGINEERING DESIGN OF ALL CFSF-S, AND SUBMIT DESIGN CALCULATIONS, ERECTION DRAWINGS AND DETAIL DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA. REFER TO SECTION 054000 FOR ADDITIONAL INFORMATION.
3. CFSF-NS (NON-STRUCTURAL): INCLUDES INTERIOR NON-LOAD BEARING STUD WALLS AND SUSPENDED CEILING FRAMING SYSTEM. REFER TO SECTION 092216 FOR ADDITIONAL INFORMATION.
4. ALL FRAMING MEMBERS, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEET HAVING A GALVANIZED COATING IN ACCORDANCE WITH ASTM A653.
5. ALL C - SHAPED FRAMING MEMBERS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1 5/8 INCHES.
6. MINIMUM YIELD STRENGTH SHALL BE AS FOLLOWS:
   FY = 33,000 PSI — 33 MILS AND 43 MILS
   FY = 50,000 PSI — 54 MILS, 68 MILS AND 97 MILS

POST INSTALLED ANCHORS & DOWELS

1. INSTALL ALL ANCHORS IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED PROCEDURES AT NOT LESS THAN THE MINIMUM EDGE DISTANCES INDICATED IN THE MANUFACTURER'S LITERATURE. SUBMIT MANUFACTURER'S PRODUCT DATA FOR REVIEW BY THE ARCHITECT.
2. ALL ANCHORS (INCLUDING THREADED RODS, NUTS, WASHERS) SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, FOR SERVICE CONDITION SC-1.
3. SCREW ANCHORS SHALL BE ONE OF THE FOLLOWING:

   SCREW-BOLT +, BY DEWALT
   TITEN HD, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
   KWIK HUS-EZ, BY HILTI

   HOLE DIAMETER THROUGH STEEL MEMBER SHALL BE AS REQUIRED BY ANCHOR MANUFACTURER.

   MINIMUM SCREW ANCHOR EMBEDMENTS SHALL BE AS FOLLOWS, UNO:
   4" EMBEDMENT FOR 1/2" DIAMETER ANCHOR
   5" EMBEDMENT FOR 5/8" DIAMETER ANCHOR
   6" EMBEDMENT FOR 3/4" DIAMETER ANCHOR
4. ADHESIVE ANCHORS SHALL CONSIST OF THREADED ROD (ASTM A36), HEX NUT (ASTM A563), WASHER (ASTM F436), AND ADHESIVE (TYPE PER NOTE A BELOW).

   ADHESIVE DOWELS SHALL CONSIST OF DEFORMED REINFORCING BAR (ASTM A615, GRADE 60) AND ADHESIVE (TYPE PER NOTE A BELOW)

   A. "ADHESIVE ANCHORS" OR "ADHESIVE DOWELS" INSTALLED IN SOLID CONCRETE SHALL UTILIZE ONE OF THE FOLLOWING ADHESIVE SYSTEMS, OR APPROVED EQUAL:

   HYBRID (FAST CURE)

   AC200+ BY DEWALT
   ACRYLIC-TIE XP, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
   HIT-HY 200-V3, BY HILTI

   EPOXY (SLOW CURE)

   PURE 110+, BY DEWALT
   SET-XP, BY SIMPSON STRONG-TIE ANCHORING SYSTEMS
   HIT RE 500-V3 EPOXY ADHESIVE, BY HILTI

   BASIS OF DESIGN INCLUDES THE FOLLOWING DESIGN PARAMETERS:
   (1) CRACKED CONCRETE
   (2) ALLOWABLE WITH HAMMER-DRILL, HOLLOW DRILL BIT SYSTEM, AND CORE DRILLING METHODS
   (3) CURRENT ICC-ES REPORT WITH APPROVAL FOR DEVELOPMENT OF BAR USING ACI PROVISIONS FOR EMBEDMENT DEPTHS GREATER THAN 20 BAR DIAMETERS

   INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

   OVERHEAD ADHESIVE ANCHORS SHALL BE INSTALLED USING A PISTON PLUG SYSTEM.

   ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION IS REQUIRED FOR ALL INSTALLERS OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION. THE HILTI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM (HAAICP) IS AN APPROVED EQUIVALENT.

   THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD SHALL RECEIVE DOCUMENTED CONFIRMATION THAT ALL PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.

   EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY GPR, X-RAY, CHIPPING OR OTHER APPROVED METHODS.

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PROGRESS PRINT NOT FOR CONSTRUCTION

GEORGETOWN COUNTY RE-ENTRY FACILITY

GEORGETOWN COUNTY
GEORGETOWN, SOUTH CAROLINA

PROJECT NO: 611315
DATE: FEBRUARY 26, 2024

REVISIONS

DATE	DESCRIPTION

GENERAL NOTES AND LEGENDS

S0.0.1

2/26/2024 4:35:20 PM

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
Inspection Agents					
1. Special Inspector of Record (SIOR):					
2. Structural Engineer of Record (SEOR): Moseley Architects					
3. Steel Fabricator's Quality Control Inspector:					
4. Structural Observer:					
Inspection Agents					
O – Observe – The inspector shall observe these items on a regular basis.					
P – Perform – These tasks shall be performed for each welded or bolted joint.					
1704.2.4 Report Requirement					
Special Inspector to keep record of special inspections and furnish inspection reports to the building official and to the Registered Design Professional in Responsible Charge.	●		Y	IBC 1704.2.4	1
1704.2.5 Inspection of Fabricated Items					
Work done in fabricator shop requires special inspection unless the fabricator is registered and approved in accordance with 1704.2.5.1. Where fabricator is approved, **provide fabricator certification document.**		●	Y	1704.2.5	1, 3
At completion of fabrication, submit certificate of compliance to building official stating the work was performed in accordance with the approved construction documents.		●	Y	1704.2.5.1	1
1704.4 Contractor Responsibility					
Each contractor responsible for the construction of a main wind- or seismic force resisting system, designated seismic system or a wind- or seismic-resisting component listed in the statement of special inspections shall submit a written statement of responsibility.		●	Y	1704.4	
1704.5 Submittals to the Building Official					
Certificates of compliance for the fabrication of structural, load-bearing or lateral load-resisting members or assemblies on the premises of a registered and approved fabricator in accordance with 1704.2.5.1.	●		Y	1704.5 1704.2.5.1	2, 3
Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.14.2.	●		Y	1704.5 1705.14.2	2, 3
Certificates of compliance for designated seismic systems in accordance with Section 1705.14.3.	●		Y	1704.5 1705.14.3	2, 3
Reports of preconstruction tests for shotcrete in accordance with ACI 318.	●		N	1704.5 ACI 318	1, 2
Certificates of compliance for open web steel joists and joist girders in accordance with Section 2207.5.	●		N	1704.5 2207.5	2, 3
Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 26.6.4. of ACI 318 for reinforcing bars in concrete complying with a standard other than ASTM A 706 that are to be welded.	●		Y	1704.5 AWS D1.4 26.6.4 of ACI 318 ASTM A 706	1, 2
Reports of mill tests in accordance with Section 20.2.2.5 of ACI 318 for reinforcing bars complying with ASTM A 615 and used to resist earthquake-induced flexural or axial forces in the special moment frames, special structural walls or coupling beams connecting special structural walls of seismic force-resisting systems in structures assigned to Seismic Design Category B, C, D, E, or F	●		N	1704.5 20.2.2.5 of ACI 318 ASTM A 615	2, 3
1704.6 Structural Observation					
The owner shall employ a registered design professional to perform structural observation. Prior to commencement of observation, the structural observer shall submit to the building official a written statement identifying frequency and extent of structural observations.					
1. Structural observations for structures		●	N	1704.6.1	4

Inspections & Testing	Reference Standard or Compliance Document	Agent
1705.2 Steel Construction		
Structural Steel inspections and non-destructive testing shall be in accordance with the quality assurance inspection requirements of AISC 360-16.	1705.2.1 AISC 360-16	
QC inspection tasks shall be performed by fabricator's or erector's Quality Control Inspector (Agent 3), as applicable, in accordance with sections N5.4, N5.6, and N5.7. QA inspection tasks shall be performed by the Quality Assurance Inspector (Agent 1), in accordance with section N5.4, N5.6, and N5.7.		
Prior to Welding (AISC 360-16 Table N5.4-1)		QC / QA
Welder qualification records and continuity records		P / O
Welding procedure specifications (WPSs) available		P / P
Manufacturer certifications for welding consumables		P / P
Material identification (type/grade)		O / O
Welder identification system		O / O
Fit-up of groove welds (including joint geometry)		O / O
a. Joint preparation		
b. Dimensions (alignment, root opening, root face, bevel)		
c. Cleanliness (condition of steel surfaces)		
d. Tacking (tack weld quality and location)		
e. Backing type and fit (if applicable)		
Configuration and finish of access holes		O / O
Fit-up of fillet welds		O / O
a. Dimensions (alignment, gaps at root)		
b. Cleanliness (condition of steel surfaces)		
c. Tacking (tack weld quality and location)		
Check welding equipment		O / -
During Welding (AISC 360-16 Table N5.4-2)		QC / QA
Control and handling of welding consumables		O / O
a. Packaging		
b. Exposure control		
No welding over cracked tack welds		O / O
Environmental conditions		O / O
a. Wind speed within limits		
b. Precipitation and temperature		
WPS followed		O / O
a. Settings on welding equipment		
b. Travel speed		
c. Selected welding materials		
d. Shielding gas type/flow rate		
e. Preheat applied		
f. Interpass temperature maintained (min. /max.)		
g. Proper position (F, V, H, OH)		
Welding techniques		O / O
a. Interpass and final cleaning		
b. Each pass within profile limitations		
c. Each pass meets quality requirements		
Placement and installation of steel headed stud anchors		P / P

Inspections & Testing	Reference Standard or Compliance Document	Agent
After Welding (AISC 360-16 Table N5.4-3)		QC / QA
Welds cleaned		O / O
Size, length and location of welds		P / P
Welds meet visual acceptance criteria		P / P
a. Crack prohibition		
b. Weld/base-metal fusion		
c. Crater cross section		
d. Weld profiles		
e. Weld size		
f. Undercut		
g. Porosity		
Arc strikes		P / P
k-area		P / P
Weld across holes in rolled heavy shapes and built-up heavy shapes		P / P
Backing removed and weld tabs removed (if required)		P / P
Repair activities		P / P
Document acceptance or rejection of welded joint or member		P / P
No prohibited welds have been added without the approval of the EOR.		O / O
Nondestructive Testing (AISC 360-16 Section N5.5)		QC / QA
Risk Category II Structures - Perform Ultrasonic Testing on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading, in materials 5/16 in. thick or greater.		P / P
Risk Category III or IV Structures - Perform Ultrasonic Testing on all CJP groove welds subject to transversely applied tension loading in butt, T- and corner joints, in materials 5/16 in. thick or greater.		P / P
Access Holes – Perform Magnetic Particle Testing or Liquid Penetrant Testing when the flange thickness exceeds 2 in. for rolled shapes, or when the web thickness exceeds 2 in. for built-up shapes.		P / P
Welded Joints Subject to Fatigue		P / P
Prior to Welding (AISC 341-16 Table J6.1)		QC / QA
Visual inspection tasks prior to welding		
Material identification (type/grade)		O / O
Welder identification system		O / O
Fit-up of groove welds (including joint geometry)		P/O** / O
a. Joint preparation		
b. Dimensions (alignment, root opening, root face, bevel)		
c. Cleanliness (condition of steel surfaces)		
d. Tacking (tack weld quality and location)		
e. Backing type and fit (if applicable)		
Configuration and finish of access holes		O / O
Fit-up of fillet welds		P/O** / O
a. Dimensions (alignment, gaps at root)		
b. Cleanliness (condition of steel surfaces)		
c. Tacking (tack weld quality and location)		

**Following performance of this inspection task for ten welds to be made by a given welder, with the welder demonstrating understanding of requirements and possession of skills and tools to verify these items, the Perform designation of this task shall be reduced to Observe, and the welder shall perform this task. Should the Inspector determine that the welder has discontinued performance of this task, the task shall be returned to Perform until such time as the Inspector has re-established adequate assurance that the welder will perform the inspection tasks listed.

During Welding (AISC 341-16 Table J6.2)		QC / QA
Visual inspection tasks during welding		
WPS followed		O / O
a. Settings on welding equipment		
b. Travel speed		
c. Selected welding materials		
d. Shielding gas type/flow rate		
e. Preheat applied		
f. Interpass temperature maintained (min. /max.)		
g. Proper position (F, V, H, OH)		
h. Intermix of filler metals avoided unless approved		
Use of qualified welders		O / O
Control and handling of welding consumables		O / O
a. Packaging		
b. Exposure control		
Environmental conditions		O / O
a. Wind speed within limits		
b. Precipitation and temperature		
Welding techniques		O / O
a. Interpass and final cleaning		
b. Each pass within profile limitations		
c. Each pass meets quality requirements		
No welding over cracked tacks		O / O
After Welding (AISC 341-16 Table J6.3)		QC / QA
Visual inspection tasks after welding		
Welds cleaned		O / O
Size, length and location of welds		P / P
Welds meet visual acceptance criteria		P / P
a. Crack prohibition		
b. Weld/base-metal fusion		
c. Crater cross section		
d. Weld profiles		
e. Weld size		
f. Undercut		
g. Porosity		
*k-area		P / P
Placement of reinforcing or contouring fillet welds (if required)		P / P
Backing removed, weld tabs removed and finished, and fillet welds added (if required)		P / P
Repair activities		P / P

* When welding doubler plates, continuity plates, or stiffeners has been performed in the k-area, visually inspect web k-area for cracks within 3 in. (75 mm) of the weld. The visual inspection shall be performed no sooner than 48 hours following completion of the welding.

Prior to Bolting (AISC 360-16 N5.6-1)	QC / QA
Manufacturer's certifications available for fastener materials	O / O
Fasteners marked in accordance with ASTM requirements	O / O
Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	O / O
Correct bolting procedure selected for joint detail	O / O
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	O / O
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used (Not required for Snug Tight bolts)	P / O
Protected storage provided for bolts, nuts, washers and other fastener components	O / O

Inspections & Testing	Reference Standard or Compliance Document	Agent
During Bolting (AISC 360-16 Table N5.6-2)		QC / QA
These inspections are not required for snug-tight joints. *These inspections are not required for pretensioned joints and slip-critical joints, when the installer is using the turn-of-nut method with matchmarking techniques, the direct-tension-indicator method, or the twist-off-type tension control bolt method.*		
Fastener assemblies, placed in all holes and washers and nuts are positioned as required		O / O
Joint brought to the snug-tight condition prior to the pretensioning operation		O / O
Fastener component not turned by the wrench prevented from rotating		O / O
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges		O / O
After Bolting (AISC 360-16 Table N5.6-3)		QC / QA
Document acceptance or rejection of bolted connections		P / P
Other Inspection Tasks (AISC 360-16 Section N5.8)		QC / QA
Verify compliance of fabricated steel with the details shown on the approved shop drawings.		P
Verify compliance of the erected steel frame with the field installed details shown on the approved erection drawings, including braces, stiffeners, member locations and joint details.		P
Anchor rods and other embedment supporting structural steel		P
a. Verify the diameter, grade, type and length of the anchor rod or embedded item.		P
b. Verify the extent or depth of embedment into the concrete.		P
Reduced Beam Sections (RBS) requirements, if applicable (ref: AISC 341-16)		P
a. Contour and finish		P
b. Dimensional tolerances		P
Protected zone—no holes and unapproved attachments made by fabricator or erector; as applicable (ref: AISC 341-16)		P
H-piles - Protected zone—no holes and unapproved attachments made by the responsible contractor, as applicable (ref: AISC 341-16)		P

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.2.2 Cold-Formed Steel Deck					
Special inspections in accordance with SDI QA/QC-2017 Standard for Quality control and Quality assurance for Installation of Steel Deck.		●	Y	1705.2.2	2
1705.3 Concrete Construction					
Inspect reinforcing steel, including prestressing tendons, and verify placement.		●	Y	Table 1705.3	1
Inspect reinforcing bar welding					1
a. Verify weldability of reinforcing bars other than ASTM A 706		●	Y		
b. Inspect single-pass fillet welds, maximum 5/16"		●	N		
c. Inspect all welds	●		N		
Inspect anchors cast in concrete.		●	Y		1
Inspect anchors post-installed in hardened concrete members.	●		Y		1
a. Adhesive anchors installed in horizontally or upwardly inclined orientation to resist sustained tension loads.	●		Y		
b. Mechanical anchors and adhesive anchors not defined above		●	Y		
Verify use of approved design mix.		●	Y		1
Prior to placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	●		Y		1
Inspect concrete and shotcrete placement for proper application techniques.	●		Y		1
Inspect for maintenance of specified curing temperature and techniques.		●	Y		1
Inspect prestressed concrete for:					1
a. Application of prestressing forces	●		N		
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	●		N		
Inspect erection of precast structural members.		●	N		1
For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E, or F, inspect such connections and reinforcement in the field for:					1
a. Installation of the embedded parts	●		N		1
b. Completion of the continuity of reinforcement across joints	●		N		1
c. Completion of connections in the field	●		N		1
Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.		●	N		1
Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		●	N		1
Inspect formwork for shape, location, and dimensions of the concrete member being formed		●	Y		1

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.6 Soils					
Verify materials below shallow foundations are adequate to achieve the required bearing capacity.		●	Y	Table 1705.6	1
Verify excavations are extended to proper depth and have reached proper material.		●	Y		1
Perform classification and testing of compacted fill materials.		●	Y		1
During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.	●		Y		1
Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.		●	Y		1
1705.12 Wind Resistance					
Provide inspections when required by 1705.12.		●	Y		1, 2
a. Structural wood				1705.12.1	
b. CFS light frame construction				1705.12.2	
c. Wind resisting components				1705.12.3	
1705.13 Seismic Resistance					
Provide inspections when required by 1705.13.		●	Y		1, 2
a. Structural steel				1705.13.1	
b. Structural wood				1705.13.2	
c. CFS light frame construction				1705.13.3	
d. Designated seismic systems				1705.13.4	
e. Architectural components				1705.13.5	
f. Plumbing, Mechanical, Electrical components				1705.13.6	
g. Storage Racks				1705.13.7	
h. Seismic Isolation Systems				1705.13.8	
i. Cold-formed Steel Special Bolted Moment Frames				1705.13.9	
1705.14 Testing and Qualification for Seismic Resistance					
Test and qualify seismic resistance in accordance with 1705.14 and the project specifications.		●	Y		1, 2
a. Structural Steel				1705.14.1	
b. Non-Structural Components				1705.14.2	
c. Designated Seismic Systems				1705.14.3	
d. Seismic Isolation Systems				1705.14.4	
1705.15 Sprayed Fire-Resistant Materials (SFRM)					
Inspect sprayed fire-resistant materials in accordance with 1705.15 and the project specifications.		●	N		1
a. Condition of substrate					
b. Thickness of application					
c. Density					
d. Bond strength adhesion/cohesion					
e. Condition of finished application					
1705.16 Mastic and Intumescent Fire-Resistant Coatings					
Perform inspections in accordance with AWCI 12-B and 1705.16.		●	N	AWCI 12-B	1
1705.17 Exterior Insulation and Finish Systems (EIFS)					
Perform inspections in accordance with project specifications and 1705.17.		●	N		1
1705.18 Fire-resistant Penetrations and Joints					
Perform inspections in accordance with project specifications and 1705.18.		●	N	1705.18.1, 1705.18.2	1, 2
1705.19 Smoke Control					
Perform testing in accordance with project specifications and 1705.19.		●	N		1

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GEORGETOWN COUNTY
GEORGETOWN, SOUTH CAROLINA

PROJECT NO: 611315
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DATE	DESCRIPTION

SCHEDULE OF SPECIAL INSPECTIONS - 2021 IBC

S0.0.2

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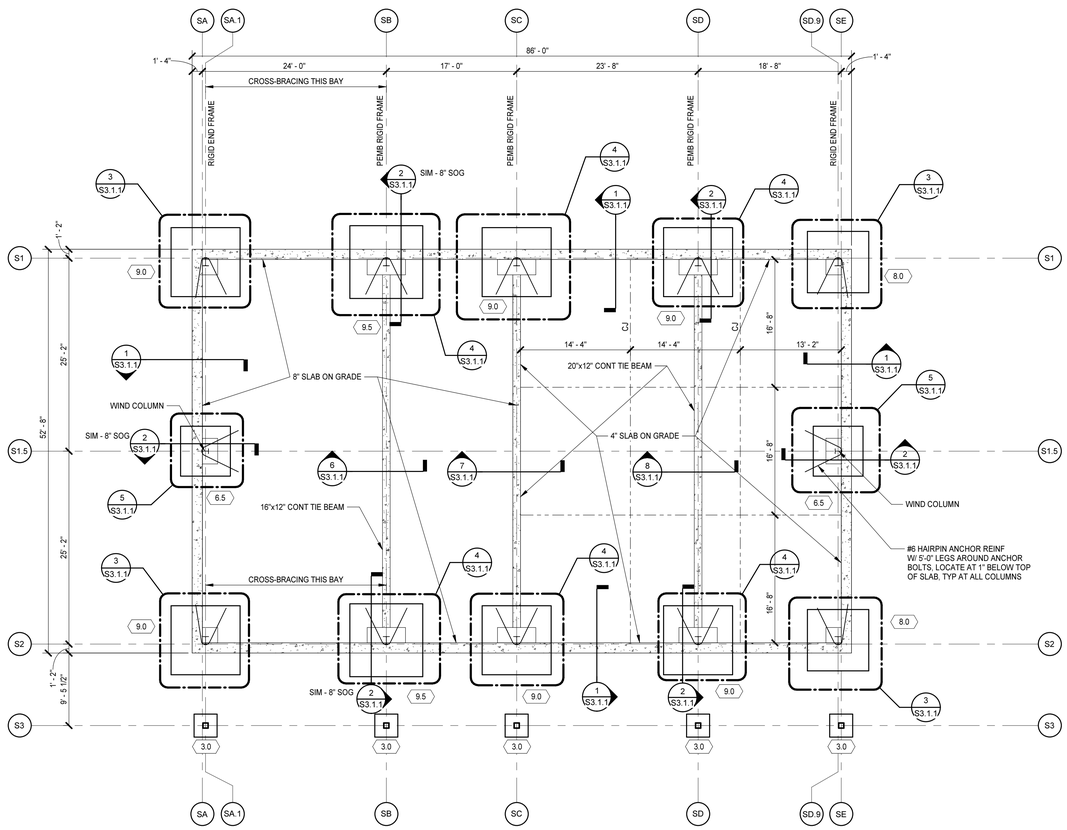

N

FIRST FLOOR PLAN FOUNDATION

1/8" = 1'-0"

0' 2' 4' 8' 16'

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FINISHED FIRST FLOOR ELEVATION = 18.80' = REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
2. FLOOR CONSTRUCTION SHALL BE 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 6x6-W2.9xW2.9 WWF (AT 1" FROM TOP OF SLAB) OVER VAPOR BARRIER OVER 6" GRANULAR BASE COURSE, UNO.
3. 8" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH #5 AT 12" ON CENTER AT MID-DEPTH OVER VAPOR BARRIER OVER 6" GRANULAR BASE COURSE, UNO. JOINTS ARE NOT PERMITTED IN THIS SLAB. POUR SLAB, SLAB EDGE TURNDOWN, AND PIERS MONOLITHICALLY.
4. BASE COURSE SHALL BE A CLEAN, DENSELY-GRADED "CRUSHER RUN" MATERIAL WITH A BALANCED FINE CONTENT, SUCH AS MATERIAL LISTED IN THE ***SCDOT QUALIFIED PRODUCT LIST 2***. THE BASE COURSE SHALL BE COMPACTED AND SHALL BE FINISHED TO A FLAT, SMOOTH, LOW-FRICTION SURFACE. COMPACTION SHALL BE MONITORED BY THE ON-SITE TESTING AGENCY. OPEN GRADED STONE, SUCH AS #57 STONE, IS NOT ACCEPTABLE.
5. COORDINATE TOP OF FOOTING ELEVATIONS WITH ALL UNDERSLAB UTILITIES. REFER TO FOUNDATION NOTE #4 ON DRAWING S0.0.1.
6. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
7. REFER TO DRAWINGS S3.0.1 FOR TYPICAL FOUNDATION, SLAB DETAILS AND SCHEDULES.

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FOUNDATION PLAN

S1.1.1

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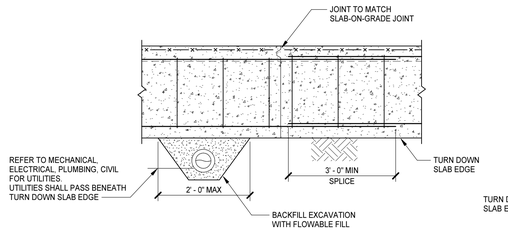
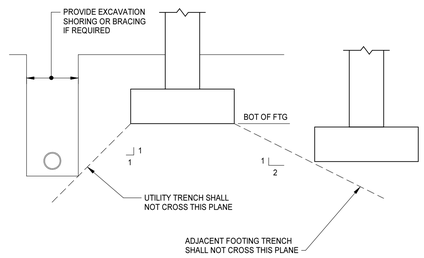


ELEVATION **PLAN AT CORNER**

CONCRETE TURN DOWN SLAB EDGE DETAILS

NO SCALE

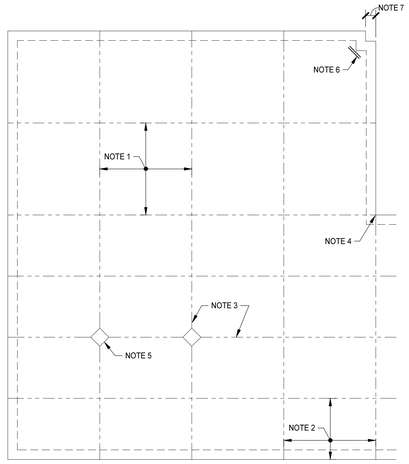


FOOTING EXCAVATION LIMITS

NO SCALE

SPREAD FOOTING SCHEDULE

MARK	SIZE			REINFORCING
	LENGTH	WIDTH	THICKNESS	
3.0	3' - 0"	3' - 0"	1' - 0"	(4) #5 EA WAY BOT
6.5	6' - 6"	6' - 6"	1' - 4"	(6) #6 EA WAY TOP & BOT
8.0	8' - 0"	8' - 0"	1' - 7"	(9) #6 EA WAY TOP & BOT
9.0	9' - 0"	9' - 0"	1' - 10"	(10) #6 EA WAY TOP & BOT
9.5	9' - 6"	9' - 6"	1' - 11"	(11) #6 EA WAY TOP & BOT

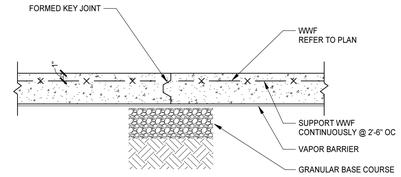


SLAB-ON-GRADE JOINT LAYOUT GUIDELINES

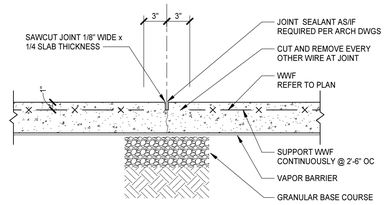
NO SCALE

NOTES:

1. PROVIDE CONTROL JOINTS IN SLABS ON GRADE WITHIN THE BUILDING SUCH THAT THE AREA BOUNDED BY CONTROL JOINTS DOES NOT EXCEED 225 SQUARE FEET AND JOINT SPACING DOES NOT EXCEED 15'-0" ON CENTER IN ANY ONE DIRECTION.
2. THE RATIO OF LENGTH TO WIDTH OF THE AREA BOUNDED BY CONTROL JOINTS SHALL NOT EXCEED 1.5 TO 1.
3. LOCATE CONSTRUCTION JOINTS AND OR CONTROL JOINTS AT COLUMN CENTERLINES.
4. LOCATE CONSTRUCTION JOINTS AND OR CONTROL JOINTS AT RE-ENTRANT CORNERS.
5. PROVIDE DIAMOND OR CIRCULAR BLOCKOUTS AT COLUMNS.
6. REINFORCE ALL RE-ENTRANT CORNERS OF SLAB PER "SLAB REINFORCING AT RE-ENTRANT CORNERS".
7. CONTROL JOINT NOT REQUIRED IF DIMENSION AT RE-ENTRANT CORNER IS 2'-0" OR LESS. PROVIDE REINFORCING PER "SLAB REINFORCING AT RE-ENTRANT CORNER".
8. CONTROL JOINT / CONSTRUCTION JOINT PLANS SHALL BE SUBMITTED FOR REVIEW.



CONSTRUCTION JOINT



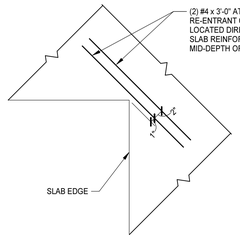
CONTROL JOINT

NOTES:

1. SAWCUT AS SOON AS CONCRETE WILL SUPPORT EQUIPMENT AND EARLY ENOUGH TO PREVENT CRACKING. DO NOT DISLODGE AGGREGATE.
2. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.

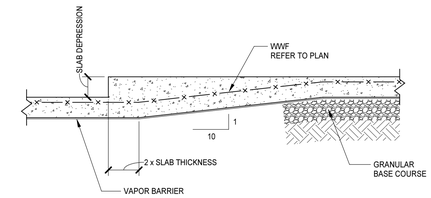
SLAB-ON-GRADE JOINT DETAILS

NO SCALE



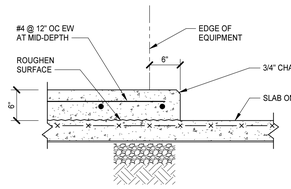
SLAB REINFORCING AT RE-ENTRANT CORNER

NO SCALE



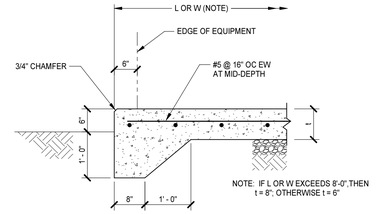
DETAIL AT SLAB DEPRESSION

NO SCALE



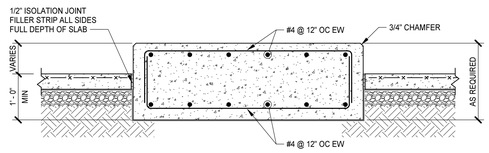
NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING HOUSEKEEPING PAD

HOUSEKEEPING PAD



NOTE: REFER TO MECH, ELEC, PLUMBING, CIVIL FOR EQUIPMENT REQUIRING EXTERIOR EQUIPMENT PAD

EXTERIOR EQUIPMENT PAD



NOTE: REFER TO MECH, ELEC, PLUMBING, CIVIL FOR EQUIPMENT REQUIRING HEAVY EQUIPMENT PAD

HEAVY EQUIPMENT PAD

EQUIPMENT PAD DETAILS

NO SCALE

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TYPICAL FOUNDATION & SLAB DETAILS

S3.0.1

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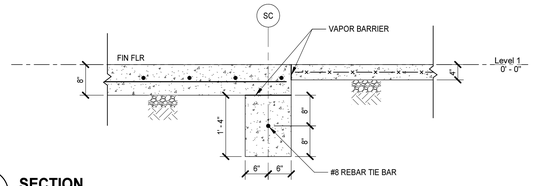
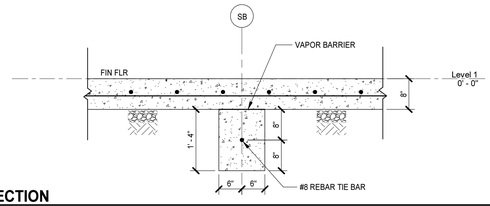
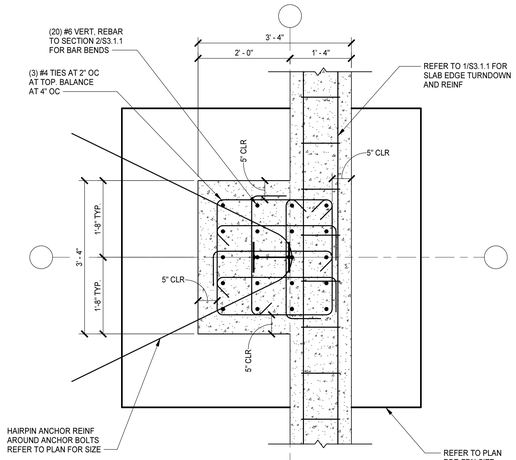


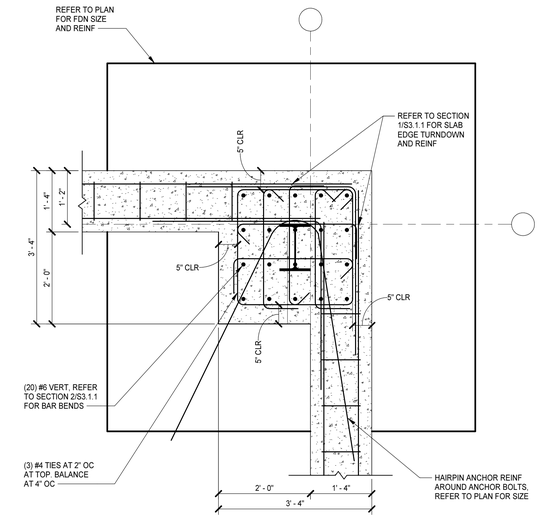
7 S1.1.1 S3.1.1 **SECTION**
3/4" = 1'-0"



6 S1.1.1 S3.1.1 **SECTION**
3/4" = 1'-0"

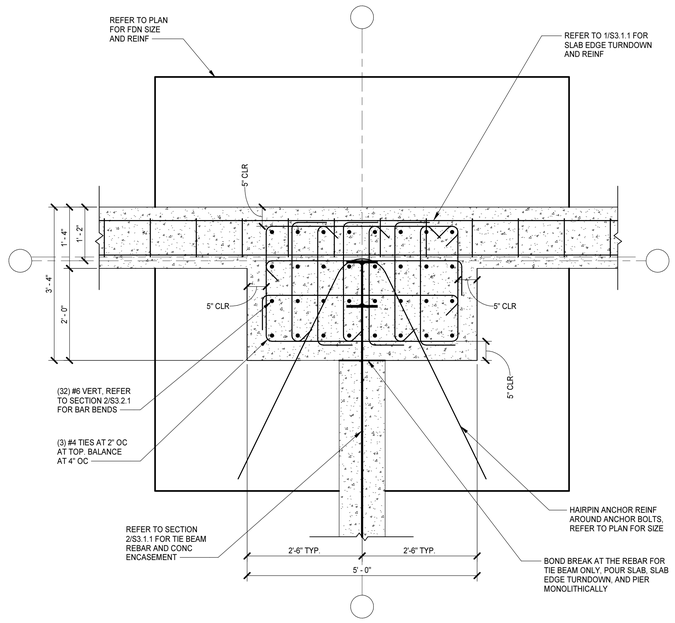


5 S1.1.1 S3.1.1 **PLAN DETAIL**
3/4" = 1'-0"

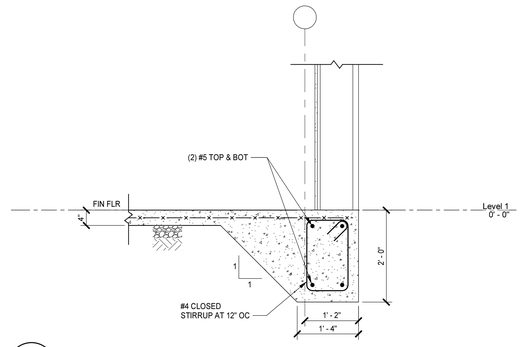


3 S1.1.1 S3.1.1 **PLAN DETAIL**
3/4" = 1'-0"

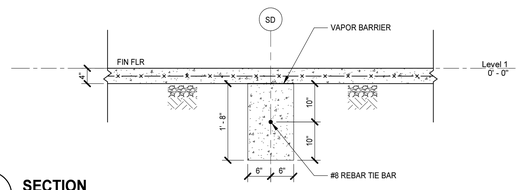
2 S1.1.1 S3.1.1 **SECTION**
3/4" = 1'-0"



4 S1.1.1 S3.1.1 **PLAN DETAIL**
3/4" = 1'-0"



1 S1.1.1 S3.1.1 **SECTION**
3/4" = 1'-0"



8 S1.1.1 S3.1.1 **SECTION**
3/4" = 1'-0"

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FOUNDATION SECTIONS

S3.1.1

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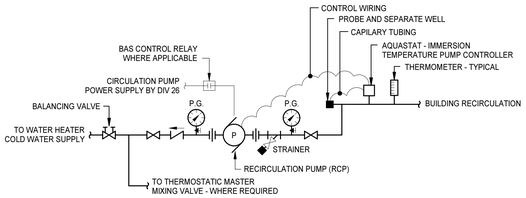
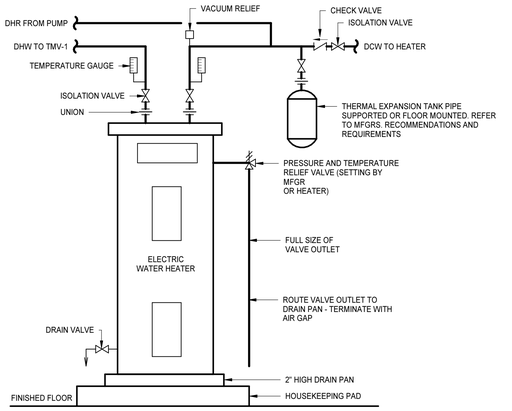


CIRCULATION PUMP DETAIL

NO SCALE



FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL

NO SCALE

ABBREVIATIONS

@	AT	EWC	ELECTRIC WATER COOLER	OSD	OPEN SITE DRAIN
AAV	AIR ADMITTANCE VALVE	EWH	ELECTRIC WATER HEATER	PC	PRECAST
ABV	ABOVE	EX	EXISTING	PCF	POUNDS PER CUBIC FOOT
AC-X	AIR COMPRESSOR DESIGNATION	EXP	EXPANSION	PD	PUMP DISCHARGE
ADJ	ADJUSTABLE	FCO	FLOOR CLEANOUT	PLUMB	PLUMBING
ADNL	ADDITIONAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD
AFF	ABOVE FINISHED FLOOR	FDC	FIRE DEPARTMENT CONNECTION	POLY	POLYETHYLENE
AFG	ABOVE FINISHED GRADE	FF	FINISHED FLOOR	PPT	PRESSURE PRESERVATIVE TREATED
AHU	AIR HANDLING UNIT	FFE	FINISHED FLOOR ELEVATION	PREFAB	PREFABRICATE(D)
ALT	ALTERNATE	FG	FINISHED GRADE	PROJ	PROJECT
ALUM	ALUMINUM	FH	FIRE HYDRANT	PSF	POUNDS PER SQUARE FOOT
AP	ACCESS PANEL	FHC	FIRE HOSE CABINET	PSI	POUNDS PER SQUARE INCH
APPR	APPROXIMATE	FHS	FIRE HOSE STATION	PV	PROPANE VENT
ARCH	ARCHITECTURAL	FHVC	FIRE HOSE VALVE CABINET	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	FIX	FIXTURE	PVMT	PAVEMENT
AVG	AVERAGE	FLR	FLOOR	R	RISER
BFF	BELOW FINISHED FLOOR	FLSHG	FLASHING	RAD	RADIUS
BFG	BELOW FINISHED GRADE	FOR	FUEL OIL RETURN	RCP-X	RECIRCULATION PUMP DESIGNATION
BLDG	BUILDING	FOS	FUEL OIL SUPPLY	RD	ROOF DRAIN (BOTTOM OUTLET)
BO	BOTTOM OF	FOV	FUEL OIL VENT	RDS	ROOF DRAIN (SIDE OUTLET)
BOT	BOTTOM	FS	FLOOR SINK	REF	REFERENCE
BSMT	BASEMENT	FSD	FOUNDATION SUB-DRAIN	REQD	REQUIRED
BTWN	BETWEEN	FT	FOOT OR FEET	REQMT	REQUIREMENTS
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	RL	RAIN LEADER
CI	CAST IRON	G	GAS	RM	ROOM
CIP	CAST-IN-PLACE CONCRETE	GCO	GRADE CLEANOUT	RO	ROUGH OPENING
CL	CENTERLINE	GWH	GAS WATER HEATER	RV	RADON VENT
CLG	CEILING	HB	HOSE BIBB	S	SOUTH
CLR	CLEAR	HORIZ	HORIZONTAL	SAN	SANITARY
CMP	CORRUGATED METAL PIPE	HP	HORSEPOWER	SCH	SCHEDULE
CNTR	COUNTER	HR-X	HOSE REEL DESIGNATION	SD	STORM DRAINAGE PIPING
CO	CLEANOUT	HTG	HEATING	SDN	STORM DRAIN NOZZLE
COL	COLUMN	HW	HOT WATER	SF	SQUARE FOOT/FEET
CONC	CONCRETE	HWR	HOT WATER RETURN	SHT	SHEET
CONDS	CONDENSATE	HWS	HOT WATER SUPPLY	SIM	SIMILAR
CONSTR	CONSTRUCTION)	ID	INSIDE DIAMETER	SLT	SEALANT
CONT	CONTINUATION	IN	INCH	SOG	SLAB ON GRADE
CONTR	CONTRACT(-OR)	INSUL	INSULATE OR INSULATION	SP	SUMP PUMP
CORR	CORRIDOR	INV	INVERT	SPEC	SPECIFICATION
CP	CIRCULATING PUMP	JAN	JANITOR	SPR	SPRINKLER
CR	CLASSROOM	KIT	KITCHEN	SQ	SQUARE
CT	COOLING TOWER	KW	KITCHEN WASTE	SRD	SECONDARY ROOF DRAIN
CU	COPPER	LAB	LABORATORY	SS	STAINLESS STEEL
CU FT	CUBIC FEET	LAV	LAVATORY	SSD	SECONDARY STORM DRAINAGE PIPING
CU YD	CUBIC YARD	LBS	POUNDS	STD	STANDARD
CW	COLD WATER	LF	LINEAR FOOT (FEET)	STL	STEEL
DB	DRY BULB	LP	PROPANE	STOR	STORAGE
DCW	DOMESTIC COLD WATER	LPV	PROPANE VENT	STRUCT	STRUCTURAL
DEMO	DEMOLISH OR DEMOLITION	MATL	MATERIAL	SUSP	SUSPENDED
DF	DRINKING FOUNTAIN	MAX	MAXIMUM	TD	TRENCH DRAIN
DHR	DOMESTIC HOT WATER RETURN	MECH	MECHANICAL	THK	THICK(-NESS)
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MED	MEDIUM	TLT	TOILET
DHW	DOMESTIC HOT WATER	MFR	MANUFACTURER	TMV	THERMOSTATIC MIXING VALVE
DHW(140)	DOMESTIC HOT WATER (140°)	MH	MANHOLE	TOSL	TOP OF SLAB
DI	DROP INLET	MIN	MINIMUM	TW	DOMESTIC TEMPERED WATER (90° F)
DIA	DIAMETER	MISC	MISCELLANEOUS	TYP	TYPICAL
DIP	DUCTILE IRON PIPE	MTD	MOUNTED	UG	UNDERGROUND
DN	DOWN	N	NORTH	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DR-X	COMPRESSED AIR DRYER DESIGNATION	N/A	NOT APPLICABLE/AVAILABLE	V	VENT
DS	DOWNSPOUT	NC	NORMALLY CLOSED	VAC	VACUUM
DT	DRAIN TILE	NG	NATURAL GAS	VB	VACUUM BREAKER
DTL	DETAIL	NGV	NATURAL GAS VENT	VERT	VERTICAL
DTW	DOMESTIC TEMPERED WATER	NIC	NOT IN CONTRACT	VTR	VENT THROUGH ROOF
DWG	DRAWING	NO	NORMALLY OPEN	W	WEST
DWP	DOMESTIC WATER BOOSTER PUMP	NO., (#)	NUMBER	W/	WITH
E	EAST	NOM	NOMINAL	W/O	WITHOUT
ED	EMERGENCY SECONDARY ROOF DRAIN	OC	ON CENTER	WB	WATER HAMMER ARRESTER
ELEC	ELECTRICAL	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
ELEV	ELEVATION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WCO	WALL CLEANOUT
EPBD	ELECTRICAL PANELBOARD	OFF	OFFICE	WSHP	WATER SOURCE HEAT PUMP
EQ	EQUAL	OH	OVERHEAD	WWF	WELDED WIRE FABRIC
EQUIP	EQUIPMENT	OPNG	OPENING	WWM	WELDED WIRE MESH
ETR	EXISTING TO REMAIN	OPP	OPPOSITE	XFMR	TRANSFORMER

GRAPHICS SYMBOLS LEGEND

- X" XXX — PIPE WITH SIZE AND SERVICE
- FLOW IN DIRECTION OF ARROW
- 1/8" FT — PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- PIPE CAP
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- UNION
- CONCENTRIC PIPE REDUCTION
- CO — END OF LINE CLEANOUT PLUG
- CO — FLOOR CLEANOUT
- WCO — WALL CLEANOUT
- CO (GCO) — YARD CLEANOUT (CLEANOUT TO GRADE)
- FD-1 — FLOOR DRAIN WITH TAG
- FS-1 — FLOOR SINK WITH TAG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- A — WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)
- FS — FLOW SWITCH
- TEMPERATURE/PRESSURE PLUG
- VALVE
- VALVE IN RISER
- GAS COCK
- VENTURI FLOW METER
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- S — SOLENOID OPERATED VALVE
- T&P — TEMPERATURE AND PRESSURE RELIEF VALVE
- BACKWATER VALVE
- HOSE BIBB OR WALL HYDRANT
- REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
- DOUBLE CHECK BACKFLOW PREVENTER
- PUMP
- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- **SECTION WHERE CUT**: A / P6.1 — SECTION LETTER; DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 / P8.1 — ENLARGED PLAN NUMBER; DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 / P8.1 — DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED
- **SANITARY RISER TAG**: S1 / P6.1 — SANITARY RISER IDENTIFIER; DRAWING WHERE SANITARY RISER IS TAGGED
- **DOMESTIC RISER TAG**: D1 / P6.1 — DOMESTIC RISER IDENTIFIER; DRAWING WHERE SANITARY RISER IS TAGGED

1 **DETAIL TITLE** 1/4"=1'-0" (P2.2, P2.3, P2.4; P6.2)
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED
- DRAWING WHERE DETAIL IS CUT
- ADDITIONAL DRAWING REFERENCES

S1 **SANITARY RISER DIAGRAM** 1/4"=1'-0" (P2.2, P2.3, P2.4; P4.2)
- SANITARY RISER DIAGRAM IDENTIFIER
- DRAWING WHERE SANITARY RISER IS INDICATED
- DRAWING WHERE SANITARY RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

D1 **DOMESTIC RISER DIAGRAM** 1/4"=1'-0" (P2.2, P2.3, P2.4; P5.2)
- DOMESTIC RISER DIAGRAM IDENTIFIER
- DRAWING WHERE DOMESTIC RISER IS INDICATED
- DRAWING WHERE DOMESTIC RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

G1 **FUEL GAS RISER DIAGRAM** 1/4"=1'-0" (P2.2, P2.3, P2.4; P5.2)
- FUEL GAS RISER DIAGRAM IDENTIFIER
- DRAWING WHERE FUEL GAS RISER IS INDICATED
- DRAWING WHERE FUEL GAS RISER IS TAGGED
- ADDITIONAL DRAWING REFERENCES

PUMP SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	AREA SERVED	PUMP TYPE	OPERATING DATA					ELECTRICAL DATA			CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL					FLOW (GPM)	PRESSURE (FEET OF HEAD)	EFFICIENCY	POWER (HP)	SPEED (RPM)	VOLTS	PHASE	HERTZ	INLET (IN)	OUTLET (IN)	
RCP-3	GRUNDFOS	MAGNA3 32-60 F N	MECHANICAL Z110	HOT WATER (130F) RECIRCULATION	BUILDING	CIRCULATION	5.00	6.11	16%	0.389	VARI	120	1	60	0.75	0.75	

1. PROVIDE PACKAGED DUPLEX VARIABLE SPEED DOMESTIC WATER BOOSTER PUMP ASSEMBLY WITH EACH PUMP SIZED FOR 100% OF THE INDICATED OPERATING FLOW WITH VFD CONTROL. EACH PUMP SIZED FOR 262 GPM AT 78' TDH 20PSI BOOST WITH AN OUTLET PRESSURE SETTING OF 80PSI MAXIMUM TO THE BUILDING DOMESTIC WATER SYSTEM.

ELECTRIC WATER HEATER SCHEDULE

TAG	BASIS OF DESIGN		CAPACITY (GALLONS)	RECOVERY RATE (GPH)	TEMPERATURE RISE (°F)	ELECTRICAL DATA					TEMPERATURE SETTING (°F)	NOTES
	MANUFACTURER	MODEL				INPUTE RATE (AMPS)	INPUT RATE (WATTS)	VOLTAGE	PHASE	HERTZ		
EWH-1	RHEEM	ELD40-TB	40	30	80	57.60	12	208	3	60	130	1

1. kW INPUT RATE FOR ELECTRIC WATER HEATERS BASED ON FULL LOAD SIMULTANEOUS OPERATION.

BACKFLOW PREVENTER SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM	SIZE	DESIGN FLOW RATE (GPM)	PRESSURE DROP (PSI)	NOTES
	MANUFACTURER	MODEL						
BFP-1	WATTS	LF919QT	MECHANICAL Z110	DCW	2.00	43.00	12.00	1

1. PROVIDE WITH WATTS MODEL 909 AG SERIES AIR GAP FITTINGS

PLUMBING FIXTURE ROUGHING-IN SCHEDULE

TAG	FIXTURE	HEIGHT A.F.F.	PIPE SIZE					NOTES
			COLD WATER	TEPID WATER	HOT WATER	VENT	SOIL WASTE	
LA-1	LAVATORY - (ACCESSIBLE) MANUAL	RIM AT 34" ABOVE FINISHED FLOOR	1/2"	N/A	1/2"	1-1/2"	2"	1,3
EEWS-1	EMERGENCY EYEWASH/FACEWASH COMBO	FLOOR MOUNTED	1"	1-1/4"	1"	N/A	N/A	4
MB-1	MOP BASIN (32"x32")	FLOOR MOUNTED	3/4"	N/A	3/4"	2"	3"	
WC-1	FLOOR MOUNTED WATER CLOSET - (ACCESSIBLE) MANUAL	TOP OF SEAT 17-19"	1"	N/A	N/A	2"	4"	1, 2
WH-1	WALL HYDRANT (FREEZE RESISTANT BOX)	18" ABOVE FINISHED GRADE OR ROOF	3/4"	N/A	N/A	N/A	N/A	

NOTES:

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL COMPLY TO ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES STANDARDS.
2. LOCATE FLUSH ACTUATORS ON WIDE SIDE OF STALLS OR APPROACH AREAS.
3. PROVIDE ASSE 1016 CERTIFIED MIXING VALVE.
4. PROVIDE ASSE 1071 CERTIFIED EMERGENCY MIXING VALVE IN RECESSED STAINLESS STEEL WALL CABINET BESIDE FIXTURE AT 5'-0" AFF. REFER TO TMV-3.

DRAIN AND CLEANOUT SCHEDULE

TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
DRAINS				
FD-1	JOSAM	30000-6S-2-PD-VP-X	6" x 6"	1,2
FD-2	JOSAM	60817	12-1/2" x 24-1/2"	OIL & SEDIMENT SEPARATOR DRAIN
FCO	JOSAM	55000-SS-SD-41-VP-Z	N/A	2
GCO	JOSAM	5500--1-SD-41-VP-Z	N/A	2

1. PROVIDE ALL FLOOR DRAINS CONNECTED TO THE SANITARY SEWER SYSTEM WITH TRAP GUARD INSERTS UNLESS OTHERWISE NOTED.
2. ALL SANITARY DRAINS AND CLEANOUTS TO HAVE ADJUSTABLE HEIGHT TOP.

GENERAL DATA

PLUMBING GENERAL DATA

Item	Value
SERVICE SIZING	
INSTANTANEOUS DEMAND (GPM)	42
SUPPLY FIXTURE UNITS (SFU)	28
DRAINAGE FIXTURE UNITS (DFU)	20
STORM DRAINAGE	
AREA OF ROOF (SQUARE FEET)	NA
AREA OF WALL ABOVE/ADJACENT TO ROOF (SQUARE FEET)	NA
TOTAL ROOF DRAINAGE (SQUARE FEET)	NA
WATER HEATERS	
NUMBER	1
HOT WATER REQUIRED	20
FUEL USED	ELECTRIC

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.

C. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.

D. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.

E. REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.

F. OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.

G. INSTALL ALL DRAINAGE PATTERN FITTINGS AND PIPING IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.

H. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

I. PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS.

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GEORGETOWN COUNTY RE-ENTRY FACILITY

611315
GEORGETOWN COUNTY
GEORGETOWN, SOUTH CAROLINA

PROJECT NO: 611315
DATE: DECEMBER 8, 2023

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

P0.1

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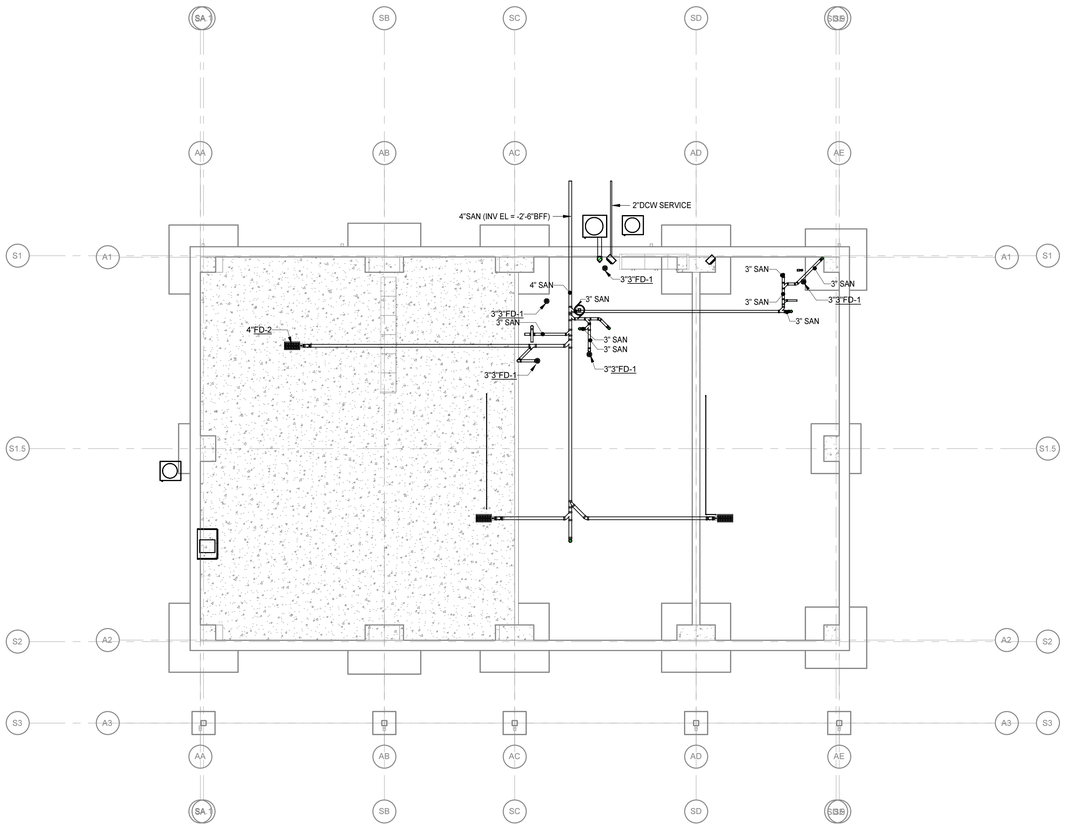


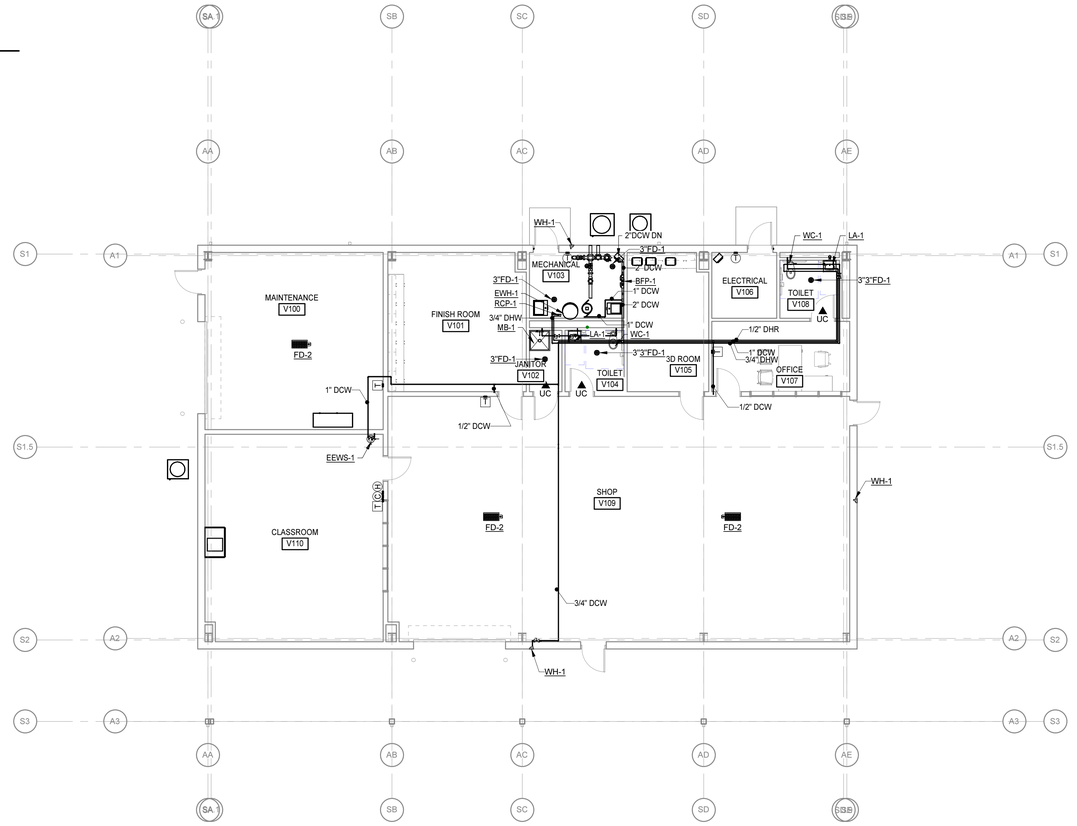
FOUNDATION PLAN - PLUMBING

1/8" = 1'-0"

FIRE PROTECTION KEYNOTES

APPLIES TO DRAWINGS FP2.1 - FP2.nn
REPRESENTED BY n

1. KEYNOTE 1...
2. KEYNOTE 2...



FIRST FLOOR PLAN - PLUMBING

1/8" = 1'-0"

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PLUMBING FIRST FLOOR PLANS

P1.0

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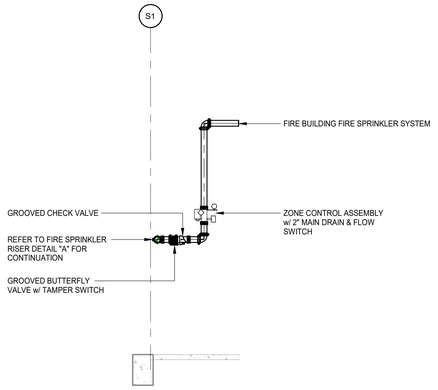
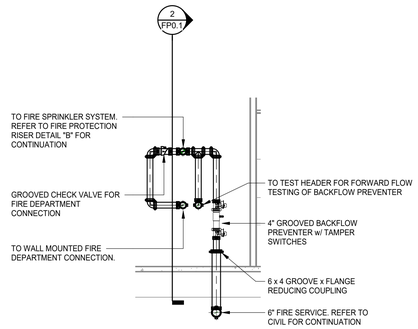


2 FP0.1 FP0.1 **FIRE SPRINKLER RISER "B"**

1/4" = 1'-0"



1 FP2.1.1 FP0.1 **FIRE PROTECTION RISER DETAIL "A"**

1/4" = 1'-0"

ABBREVIATIONS

@	AT
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BLDG	BUILDING
CL	CENTERLINE
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUATION
CORR	CORRIDOR
CR	CLASSROOM
CU	CUBIC
CU FT	CUBIC FEET
DCW	DOMESTIC COLD WATER
DEG	DEGREE(S)
DEMO	DEMOLISH OR DEMOLITION
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
DP	DRY PIPE
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
ECGH	ELECTRIC CEILING HEATER
EF	EXHAUST FAN
EH-1	EXTRA HAZARD GROUP 1
EH-2	EXTRA HAZARD GROUP 2
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXP	EXPANSION
F	FARENHEIT
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHS	FIRE HOSE STATION
FHVC	FIRE HOSE VALVE CABINET
FLR	FLOOR
FP	FIRE PROTECTION
FT	FOOT OR FEET
FVC	FIRE VALVE CABINET
GAL	GALLON(S)
GPM	GALLONS PER MINUTE
GUH	GAS-FIRED UNIT HEATER
HB	HOSE BIB
HD	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HW	HOT WATER
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATE OR INSULATION
JAN	JANITOR
KIT	KITCHEN
KW	KILOWATT(S)
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LH	LIGHT HAZARD
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
N	NORTH
NA	NOT APPLICABLE/AVAILABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO. OR #	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OH-1	ORDINARY HAZARD GROUP 1
OH-2	ORDINARY HAZARD GROUP 2
P	PUMP
PC	PRECAST
PIV	POST INDICATOR VALVE
POLY	POLYETHYLENE
PREFAB	PREFABRICATE(D)
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
R	RISER
REF	REFERENCE
REQ	REQUIRED
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SD	SMOKE DAMPER
SHT	SHEET
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
STD	STANDARD
STL	STEEL
STOR	STORAGE
SW	SWITCH
T	TEMPERATURE
THK	THICK(NESS)
TLT	TOILET
TOSL	TOP OF SLAB
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UI	UNLESS UNDICATED
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WH	WATER HEATER

GRAPHICS SYMBOLS LEGEND

- VALVE
- GATE VALVE
- VALVE IN RISER
- CHECK VALVE
- SOLENOID VALVE (S)
- FLOW SWITCH
- PRESSURE REDUCING VALVE
- DOUBLE CHECK BACKFLOW PREVENTER
- F — FIRE PROTECTION WET SPRINKLER PIPING
- DP — FIRE PROTECTION DRY SPRINKLER PIPING
- FG — FIRE EXTINGUISHING GAS PIPING
- FIRE PROTECTION DRY SPRINKLER PIPING
- UNION
- PRESSURE GAUGE WITH GAUGE COCK
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE TEE UP
- PIPE TEE DOWN
- PIPE CAP
- 1/8"/FT — PITCH PIPE DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE
- FLOW IN DIRECTION OF ARROW
- CONCENTRIC PIPE REDUCTION
- ECCENTRIC PIPE REDUCTION
- PUMP
- FIRE DEPARTMENT CONNECTION
- PENDANT SPRINKLER HEAD
- C — CONCEALED PENDANT SPRINKLER HEAD
- E — EXTENDED COVERAGE PENDANT SPRINKLER HEAD
- CE — CONCEALED EXTENDED COVERAGE PENDANT SPRINKLER HEAD
- PENDANT SPRINKLER HEAD WITH GUARD
- UPRIGHT SPRINKLER HEAD
- E — EXTENDED COVERAGE UPRIGHT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD WITH GUARD
- SIDEWALL SPRINKLER HEAD
- E — EXTENDED COVERAGE SPRINKLER HEAD
- CE — CONCDEALED EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
- EXTINGUISHING AGENT DISCHARGE NOZZLE
- FH — COMBINATION AUDIBLE AND STROBE ALARM
- F — MANUAL PULL STATION
- A — ABORT SWITCH
- I — IONIZATION SMOKE DETECTOR
- P — PHOTOELECTRIC SMOKE DETECTOR

- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON LIGHT HAZARD CLASSIFICATION PROVIDING A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON ORDINARY HAZARD GROUP 1 CLASSIFICATION PROVIDING A DENSITY OF 0.15 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON ORDINARY HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.20 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF DRY SPRINKLER HEADS IS BASED ON ORDINARY HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.20GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING THAT WILL REQUIRE ORDINARY HAZARD GROUP 1 ANITFREEZE PROTECTION, BRANCHING FROM THE LINE THAT SERVES THE AREA. REFER TO ANTI-FREEZE DETAIL.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 1 CLASSIFICATION PROVIDING A DENSITY OF 0.30 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
- INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.

- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- 30 — KEYNOTE
- A123 — **SPACE IDENTIFICATION TAG**: SPACE NUMBER; BUILDING AREA (WHEN USED)
- AHU-02 — **EQUIPMENT IDENTIFICATION TAG**: EQUIPMENT NUMBER; UNIT DESIGNATION
- 8 — STRUCTURAL GRID LINE WITH DESIGNATION
- **SECTION WHERE CUT**: A / M6.1 — SECTION LETTER; DRAWING WHERE SECTION IS INDICATED
- **ENLARGED PLAN WHERE CUT**: 1 / M2.5 — ENLARGED PLAN NUMBER; DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 / M4.1 — DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED
- 1 / M2.2 M4.1 M2.3 M2.4 — **DETAIL TITLE** 1/4"=1'-0"; DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED; DRAWING WHERE DETAIL IS CUT; ADDITIONAL DRAWING REFERENCES
- A / M2.2 M3.1 M2.3 M2.4 — **SECTION TITLE** 1/4"=1'-0"; SECTION LETTER; DRAWING WHERE SECTION IS INDICATED; DRAWING WHERE SECTION IS CUT; ADDITIONAL DRAWING REFERENCES

GENERAL NOTES

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

COORDINATE THE LOCATION OF ALL SPRINKLER PIPING WITH THE WORK OF OTHER TRADES. SPRINKLER PIPING SHALL NOT BE INSTALLED WHERE ITS LOCATION INHIBITS ACCESS TO EQUIPMENT ABOVE THE CEILING, FILTER ACCESS OR INFRINGES UPON CLEARANCES DICTATED BY THE NATIONAL ELECTRIC CODE.

VERIFY DIMENSIONS AND ROUTING IN FIELD BEFORE FABRICATION OF PIPING AND FIXTURES.

REFER TO THE LIFE SAFETY PLAN FOR LOCATIONS OF FIRE AND SMOKE SEPARATION ASSEMBLIES.

REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

PROVIDE A COMPLETE WET PIPE SPRINKLER SYSTEM THROUGHOUT THE BUILDING IN ACCORDANCE WITH 2018 VIRGINIA BUILDING CODE, 2016 NFPA 13 AND ALL OTHER REQUIREMENTS SET FORTH BY LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION DRAWINGS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF SOUTH CAROLINA OR BY A NICET LEVEL III OR IV DESIGNER CERTIFIED IN THE FIELD OF WATER BASED SYSTEMS LAYOUT.

PIPE ALL SYSTEM DRAINS TO AN APPROVED LOCATION ON THE OUTSIDE PERIMETER OF BUILDING. DO NOT DISCHARGE DRAIN INTO A JANITORS SINK WITHOUT APPROVAL FROM PLUMBING ENGINEER.

DESIGN FLOW DATA

THE FOLLOWING DATA SHALL BE USED FOR BID PURPOSES ONLY. CONFIRM DATA PRIOR TO CALCULATING PIPE SIZES:

LOCATION OF TEST: BROWNS FERRY RD & B A GRANTHAM RD

STATIC PRESSURE: 70 psi

RESIDUAL PRESSURE: 60 psi

FLOW AT TIME OF TEST: 1130 gpm

DATE OF TEST: 8/29/2023

SPRINKLER HEADS

IN SUSPENDED ACOUSTICAL CEILINGS: PROVIDE RECESSED, QUICK RESPONSE, GLASS BULB PENDENT TYPE SPRINKLERS w/ CHROME FINISH AND MATCHING ESCUTCHEON.

FOR HORIZONTAL SIDEWALL APPLICATIONS: PROVIDE RECESSED, QUICK RESPONSE, GLASS BULB TYPE SPRINKLERS w/ CHROME FINISH AND MATCHING ESCUTCHEON.

IN EQUIPMENT, STORAGE AND OTHER SIMILAR ROOMS WITHOUT SUSPENDED CEILINGS: PROVIDE STANDARD UPRIGHT, QUICK RESPONSE, QUICK RESPONSE w/ BRASS FINISH.

IN AREAS SUBJECT TO FREEZING TEMPERATURES SUPPLIED BY WET PIPE SPRINKLER SYSTEM; PROVIDE QUICK RESPONSE, FUSIBLE LINK TYPE DRY TYPE SPRINKLERS.

PROVIDE INTERMEDIATE TEMPERATURE SPRINKLERS WHEN INSTALLED 2'-6" OR LESS TO AN HAVC SUPPLY DIFFUSER IN CEILINGS AS REQUIRED BY NFPA 13 TABLE 8.3.2.5(a)ITEM (C) FOR HORIZONTAL DISCHARGE.

INSTALL SPRINKLERS IN CENTER OF ACOUSTICAL TILE CEILING PANELS.

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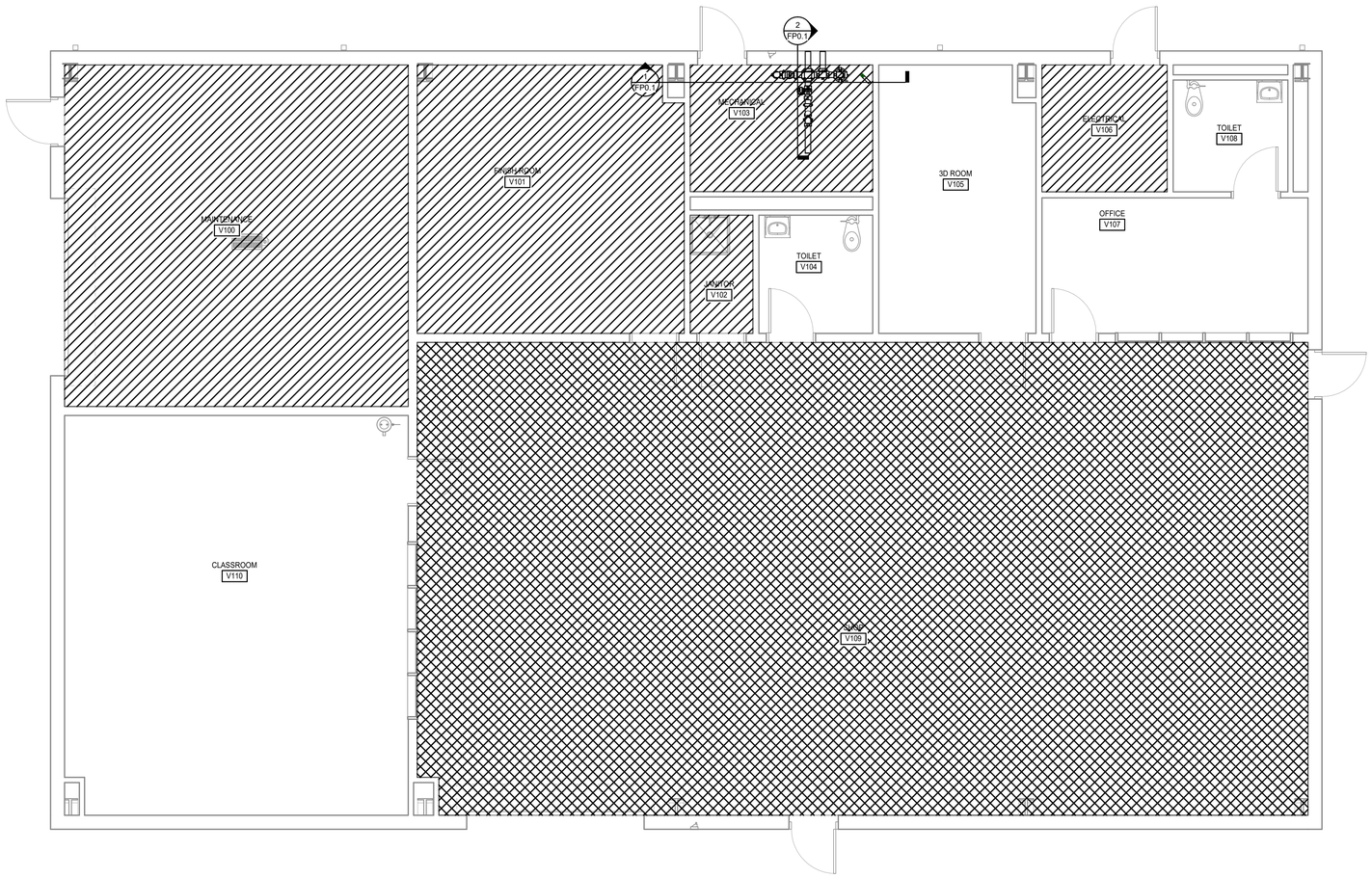

N

FIRST FLOOR PLAN - FIRE PROTECTION

1/4" = 1'-0"

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3200 NORFOLK STREET, RICHMOND, VA 23230
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GEORGETOWN, SOUTH CAROLINA

PROJECT NO: 611315
DATE: DECEMBER 8, 2023

REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - FIRE PROTECTION

FP2.1.1

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EQUIPMENT ABBREVIATION

AHU	AIR-HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
CCC	CLOSED-CIRCUIT COOLING TOWER
CH	CHILLER
CHWP	CHILLED WATER PUMP
CRAC	COMPUTER ROOM AIR CONDTIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
ECH	ELECTRIC CEILING HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FCU	FAN COIL UNIT
HP	HEAT PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
OAU	OUTDOOR AIR UNIT
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
RTU	ROOFTOP UNIT
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
UH	UNIT HEATER
WSHP	WATER-SOURCE HEAT PUMP

CONTROLS ABBREVIATIONS

AF	AIRFLOW
AI	ANALOG INPUT TO CONTROLLER
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

ABBREVIATIONS

A	AMPERE(S)
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
COM	COMMON
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
dBA	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPM	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
IPLV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTAGE, VOLTS
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT(S)
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

GRAPHIC SYMBOL LEGEND

CORRIDOR A101 — **SPACE TAG**: SPACE NAME; SPACE NUMBER; BUILDING "PART" NUMBER IN MULTI-PART BUILDING

AHU-12 — **EQUIPMENT TAG**: EQUIPMENT NUMBER; EQUIPMENT ABBREVIATION

S1 / 325 — **DIFFUSER, GRILLE OR REGISTER TAG**: TAG, REFER TO DIFFUSER, GRILLE AND REGISTER SCHEDULE; AIRFLOW (CFM)

1 / M5.1 — **DETAIL TAG**: DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED

15 — KEYNOTE

C — STRUCTURAL GRID LINE WITH DESIGNATION

EXISTING TO BE REMOVED

1 / M2.2 / M5.1 / M2.3 / M2.4 — **DETAIL TITLE** 1/4"=1'-0": DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED; DRAWING WHERE DETAIL IS REFERENCED; ADDITIONAL DRAWING REFERENCES

1 / M2.2 / M4.1 / M2.3 / M2.4 — **SECTION TITLE** 1/4"=1'-0": SECTION NUMBER; DRAWING WHERE SECTION IS INDICATED; DRAWING WHERE SECTION IS REFERENCED; ADDITIONAL DRAWING REFERENCES

1 / M4.1 — **SECTION CALLOUT**: SECTION NUMBER; DRAWING WHERE SECTION IS INDICATED

1 / M3.1 — **ENLARGED PLAN CALLOUT**: ENLARGED PLAN NUMBER; DRAWING WHERE ENLARGED PLAN IS INDICATED

MECHANICAL EQUIPMENT WITH REQUIRED SERVICE CLEARANCE INDICATED

DUCTWORK LEGEND

- 18x8 — RECTANGULAR DUCT (FIRST DIMENSION REFERS TO SIDE VIEWED)
- 18ø — ROUND DUCT SIZE
- 18/12 — FLAT OVAL DUCT SIZE
- 18ø — DOUBLE WALL, EXPOSED DUCT
- 18ø — FABRIC DUCT
- FLEXIBLE DUCTWORK
- FLEXIBLE CONNECTOR
- SD — DUCT-MOUNTED SMOKE DETECTOR
- DUCT WITH DUCT LINER
- DUCT ACCESS DOOR
- DUCT WITH END CAP
- LINEAR SLOT DIFFUSER, LENGTH AS INDICATED
- LINEAR BAR GRILLE, LENGTH AS INDICATED
- SUPPLY DIFFUSER
- RETURN OR EXHAUST GRILLE
- SUPPLY DIFFUSER WITH DIRECTIONAL BLOW, SOLID HATCH INDICATES BLANK OFF PANEL
- POINT OF CONNECTION TO EXISTING
- LIMIT OF DEMOLITION
- SUPPLY AIRFLOW ARROW
- RETURN OR EXHAUST AIRFLOW ARROW
- UC — DOOR UNDERCUT
- DL — DOOR LOUVER
- SENSOR WELL

- MANUAL BALANCING DAMPER IN DUCT
- FIRE DAMPER IN DUCT
- SMOKE DAMPER IN DUCT
- COMBINATION FIRE/SMOKE DAMPER IN DUCT
- SB — FIRE DAMPER WITH SECURITY BARS IN DUCT
- SB — SMOKE DAMPER WITH SECURITY BARS IN DUCT
- SB — COMBINATION FIRE/SMOKE DAMPER WITH SECURITY BARS IN DUCT
- M — MOTORIZED DAMPER IN DUCT
- SMOKE CONTROL MANUAL BALANCING DAMPER IN DUCT
- M — SMOKE CONTROL MOTORIZED DAMPER IN DUCT
- SB — SECURITY BARS IN DUCT
- AP — DUCT WITH ACCESS PANEL
- TO / AWAY — SUPPLY/MAKEUP AIR DUCT SECTIONS
- TO / AWAY — RETURN AIR DUCT SECTIONS
- TO / AWAY — EXHAUST AIR DUCT SECTIONS
- SD — SMOKE DETECTOR
- H — HUMIDITY SENSOR
- T — THERMOSTAT, LINE VOLTAGE
- T — THERMOSTAT, LOW VOLTAGE
- S — TEMPERATURE SENSOR
- C — CARBON DIOXIDE SENSOR
- CM — CARBON MONOXIDE SENSOR

PIPING LEGEND

- CO — END OF LINE CLEANOUT PLUG
- CO — CLEANOUT PLUG
- PRESSURE GAUGE WITH GAUGE COCK
- LIQUID FILLED THERMOMETER
- UNION
- STRAINER WITH BLOWDOWN VALVE AND 3/4" HOSE END CONNECTION
- FLEXIBLE PIPE CONNECTOR
- MA — MANUAL AIR VENT

- VALVE
- MANUAL BALANCING VALVE WITH FLOW TAPS
- AUTOMATIC BALANCING VALVE WITH FLOW TAPS
- SWING CHECK VALVE
- PRESSURE REDUCING VALVE
- TRIPLE DUTY VALVE
- GAS COCK
- P — PRESSURE-RELIEF VALVE
- M — TWO-WAY CONTROL VALVE
- M — THREE-WAY CONTROL VALVE
- DIRECTION OF FLOW

CONTROL SYMBOL LEGEND

- CIRCULATOR OR PUMP
- MOTORIZED 2-WAY VALVE
- MOTORIZED 3-WAY VALVE
- VFD — VARIABLE FREQUENCY DRIVE
- DDC — DIRECT DIGITAL CONTROLLER
- T — THERMOSTAT
- FZ — FREEZESTAT
- C — CONTACTOR
- R — RELAY
- S — SPACE TEMPERATURE SENSOR
- T — LINE VOLTAGE THERMOSTAT
- H / O / A — HAND-OFF-AUTOMATIC SWITCH
- SD — DUCT-MOUNTED SMOKE DETECTOR
- TRANSFORMER
- FUSE

- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- WIRING OR DEVICE PROVIDED UNDER DIVISION 23
- WIRING OR DEVICE NOT PROVIDED UNDER DIVISION 23
- WIRING CONNECTION BY DIVISION 23
- WIRING CONNECTION BY OTHERS
- NUMBER OF CONDUCTORS INDICATED BY SLASH MARKS
- MOTORIZED PARALLEL BLADE DAMPER
- MOTORIZED OPPOSED BLADE DAMPER
- MOTORIZED BUTTERFLY BLADE DAMPER
- SUPPLY, RETURN, OR EXHAUST FAN
- AIRFLOW DIRECTION
- AI / TS — CONTROL POINT INDICATOR: INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (AIR TEMPERATURE SENSOR)
- AI / TS — CONTROL POINT INDICATOR: INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (AIR TEMPERATURE SENSOR WITH AVERAGING ELEMENT)
- AI / TS — CONTROL POINT INDICATOR: INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (WATER TEMPERATURE SENSOR WITH BULB TYPE ELEMENT IN PIPING WELL)
- AI / CSR — CONTROL POINT INDICATOR: INPUT OR OUTPUT (ANALOG INPUT); DEVICE TYPE (CURRENT SENSING RELAY)

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITIVELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.

C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.

E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT.

H. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.

I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.

J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.

L. FOR LOCATION OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.

N. BRANCH PIPING RUNOUTS TO TERMINAL UNITS SHALL BE 3/4" DIAMETER UNLESS INDICATED OTHERWISE.

O. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

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SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 26273 — 03/08/24 — JUSTIN P. CARLSON

SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION — MOSELEY ARCHITECTS No. 3983

GEORGETOWN COUNTY RE-ENTRY FACILITY

611315
GEORGETOWN COUNTY
GEORGETOWN, SOUTH CAROLINA

PROJECT NO: 611315
DATE: MARCH 8, 2024

REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

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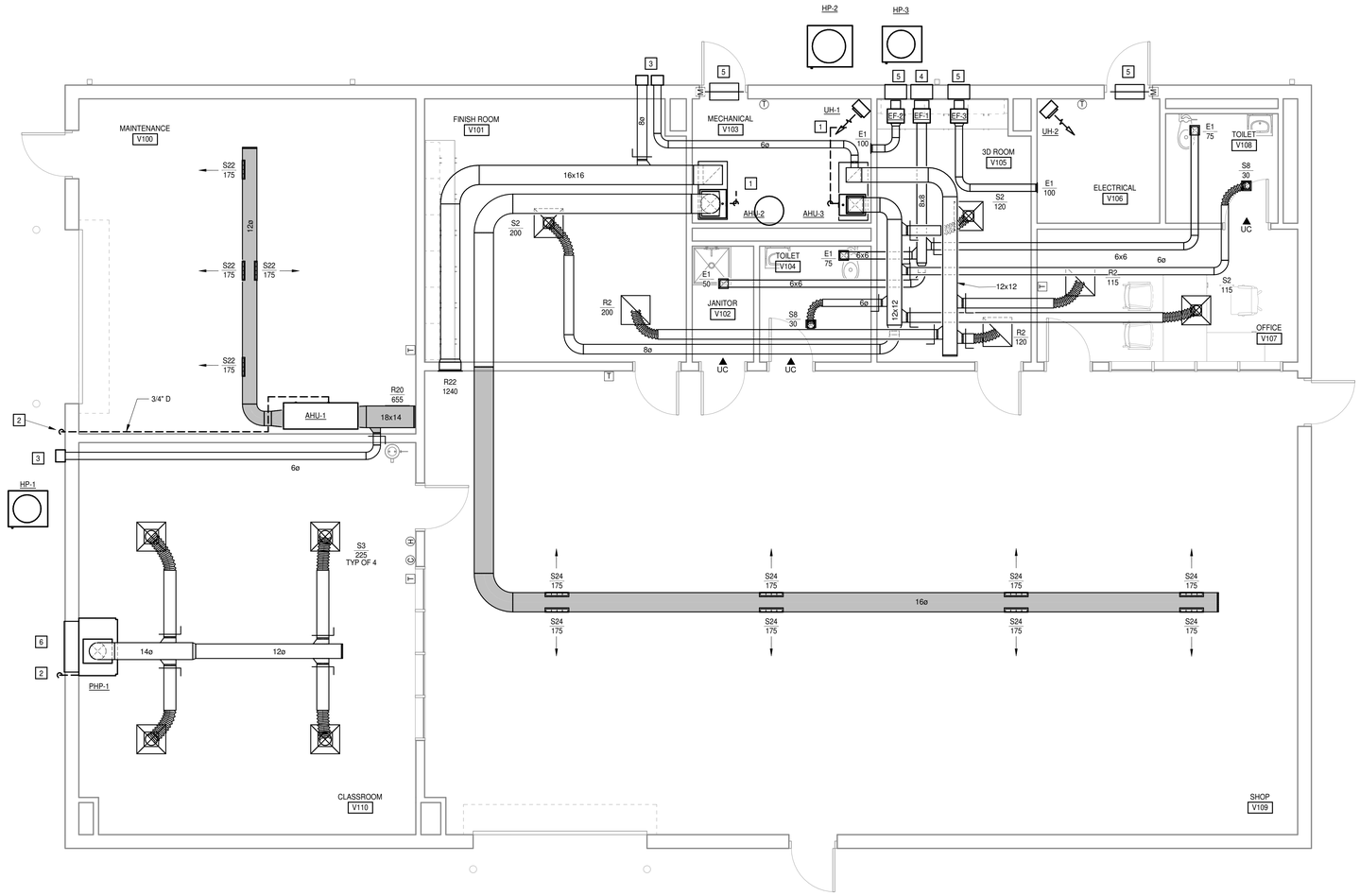

N

FIRST FLOOR PLAN - DUCTWORK

1/4" = 1'-0"

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY [n]

1. EXTEND 3/4" CONDENSATE DRAIN TO MECHANICAL ROOM FLOOR DRAIN.
2. EXTEND 3/4" CONDENSATE DRAIN TO EXTERIOR. PROVIDE SPLASHBLOCK.
3. PROVIDE HOODED WALL VENT WITH SCREEN AND BACKDRAFT DAMPER, FAMCO MODEL RDWVG (BASIS OF DESIGN) OR EQUIVALENT. COLOR PER ARCHITECT.
4. MINIMUM LOUVER FREE AREA IS 0.4 SF. SEE ARCHITECTURAL PLANS FOR LOUVER SIZE.
5. MINIMUM LOUVER FREE AREA IS 0.2 SF. SEE ARCHITECTURAL PLANS FOR LOUVER SIZE. PROVIDE MOTORIZED DAMPER (120V, 2-POSITION, INCLUDE TRANSFORMERS AS REQUIRED) AND SECTION OF DUCTWORK ON THE BACK SIDE OF LOUVER OR A COMBINATION LOUVER-DAMPER. INTERLOCK WITH ROOM EXHAUST FAN SERVING SPACE.
6. MINIMUM LOUVER FREE AREA IS 0.45. SEE ARCHITECTURAL PLANS FOR LOUVER SIZE.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	NECK SIZE	FACE SIZE	MAX NC LEVEL	NOTES
E1	PRICE	530	6X6	8X8	25	1,2
R2	PRICE	PDDR	8"	24X24	25	1,2
R20	PRICE	530	18X12	20X14	25	1,2
R22	PRICE	PDDR	18x18	20X20	25	1,2
S2	PRICE	SPD	8"	24X24	25	1,2
S3	PRICE	SPD	10"	24X24	25	1,2
S8	PRICE	510	6X6	8X8	25	1,2
S22	PRICE	SDGE	14X8	16X10	25	3
S24	PRICE	SDGE	18X12	20X14	25	3

NOTES:
1. PROVIDE WITH BORDER TYPE 3 FOR LAY-IN & BORDER TYPE 1 FOR CEILING/SURFACE MOUNTED. PROVIDE PLASTER FRAME WHEN SURFACE MOUNTED (IF AVAILABLE). COORDINATE WITH ARCHITECTURAL TO DETERMINE WHICH GRILLES/DIFFUSERS WILL BE SURFACE MOUNTED OR LAY-IN.
2. INCLUDE OPPOSED BLADE DAMPER, ACCESSIBLE THROUGH GRILLE WHERE AVAILABLE.
3. PROVIDE WITH AIR EXTRACTOR.

WALL MOUNTED HEAT PUMP SCHEDULE

TAG	MANUFACTURER	SUPPLY AIR (CFM)	OUTSIDE AIR	MODEL NUMBER	PACKAGED COOLING			HEAT PUMP HEATING			ELECTRIC HEAT (KW)	ELECTRICAL DATA					WEIGHT (LBS)
					TOTAL CAPACITY (BTUH)	INDOOR EAT (°F) DB	INDOOR EAT (°F) WB	HEATING CAPACITY (BTUH)	EAT (°F)	LAT (°F)		MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)	
PHP-1	BARD	900	225 CFM	I30H1DB06RN	27,800	80	67	26,600	45.0	70.0	6	35.0	35	208	3	60	900

GENERAL NOTES:
1. SINGLE-POINT POWER CONNECTION, FACTORY (TOGGLE) DISCONNECT.
2. PROVIDE 2" PLEATED FILTER.
3. UNITS TO HAVE TEMPERATURE, HUMIDITY, OCCUPANCY, AND CO2 CONTROL CAPABILITY. SENSORS AND CONTROLLER BY CONTROLS CONTRACTOR.
4. PROVIDE ECM SUPPLY FAN MOTOR.
5. PROVIDE ENERGY RECOVERY VENTILATOR AND DUCTED DISCHARGE EXTENSION PLENUM.
6. BALANCE OUTSIDE AIR TO AIRFLOW LISTED IN SCHEDULE UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.
7. 28 INCH TALL CABINET EXTENSION.

SPLIT SYSTEM HEAT PUMP INDOOR UNIT WITH ELECTRIC HEAT SCHEDULE

TAG	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	ESP (IN WC)	MANUFACTURER	MODEL NUMBER	COOLING				HEATING		ELECTRIC HEAT (kW)	ELECTRICAL DATA						WEIGHT (LBS)	NOTES
						TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	INDOOR EAT (°F) DB	INDOOR EAT (°F) WB	CAPACITY (BTUH)	INDOOR EAT DB (°F)		MCA (A)	MOCP (A)	SERVICE (V)	SERVICE (PH)	SERVICE (HZ)			
AHU-1	700	45	0.8	TRANE	GAM5A0A24M21SA	23600	17200	80.0	67.0	22400	70.0	5.8	38.0	40	208	1	60	170	1,2,3,4	
AHU-2	1400	160	0.8	TRANE	GAM5A0C48M41SA	47000	35000	80.0	67.0	42500	70.0	7.2	51.0	60	208	1	60	166	1,2,3,4	
AHU-3	495	60	0.8	TRANE	GAM5A0A18M11SA	17600	13200	80.0	67.0	17000	70.0	3.6	25.0	25	208	1	60	120	1,2,3,4	

NOTES (APPLY TO INDOOR AND OUTDOOR UNITS):
1. SCROLL COMPRESSORS, HIGH & LOW PRESSURE SWITCHES, SOLID STATE HEAD PRESSURE CONTROL (FAN SPEED); LOW AMBIENT CONTROL.
2. EVAPORATOR FREEZE STAT & ISOLATION RELAY, CRANKCASE HEATER, START ASSIST RELAY, EXTERNAL SERVICE VALVES, TXV, SHORT CYCLE PROTECTION, BI-FLOW REFRIGERANT FILTER DRYER.
3. OUTDOOR THERMOSTAT FOR STRIP LOCKOUT, SINGLE POINT AHU POWER CONNECTION, TOTALLY ENCLOSED BALL BEARING OUTDOOR FAN MOTOR.
4. DISCONNECT SWITCH PROVIDED BY DIVISION 26.

FAN SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN WC)	FAN WHEEL (RPM)	DRIVE TYPE	SONES	CONTROL METHOD	MOTOR (HP)	ELECTRICAL DATA (V)	(PH)	(HZ)	WEIGHT (LBS)	NOTES
EF-1	GREENHECK	CSP-390-VG	TOILETS	IN-LINE	200	0.25 in-wg	870	DIRECT	0.6	SHOP ROOM LIGHTSWITCH	1/4	120	1	60	34	1,2
EF-2	GREENHECK	CSP-190-VG	MECHANICAL	IN-LINE	100	0.25 in-wg	1400	DIRECT	3	LINE VOLTAGE TSTAT	1/4	120	1	60	34	1,2
EF-3	GREENHECK	CSP-190-VG	ELECTRICAL	IN-LINE	100	0.25 in-wg	1400	DIRECT	3	LINE VOLTAGE TSTAT	1/4	120	1	60	34	1,2

NOTES:
1. PROVIDE VARI-GREEN FAN MOTOR.
2. PROVIDE FAN WITH FUSED DISCONNECT SWITCH, GRAVITY BACKDRAFT DAMPER, ROOF CURB (IF ROOF MTD), SPEED CONTROLLER AND VIBRATION ISOLATORS.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	AMBIENT AIR TEMPERATURE (°F)	ELECTRICAL DATA MCA (A)	MOCP (A)	(V)	(PH)	(HZ)	REFRIGERANT	WEIGHT (LBS)	NOTES
HP-1	TRANE	4TWR4024	95.0	14	25	208	1	60	R-410A	161	1,2,3,4
HP-2	TRANE	4TWR4048	95.0	26	45	208	1	60	R-410A	234	1,2,3,4
HP-3	TRANE	4TWR4018	95.0	12	20	208	1	60	R-410A	161	1,2,3,4

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REVISIONS	
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FLOOR PLAN & SCHEDULES

M2.1.1

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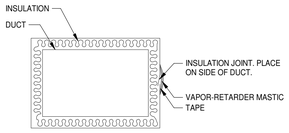
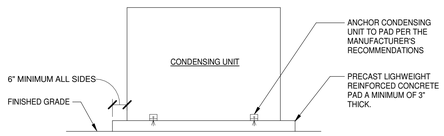
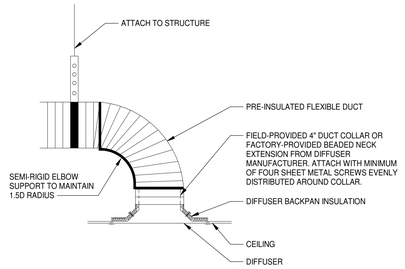


REFER TO SPECIFICATION SECTION 230700 FOR ADDITIONAL INFORMATION.

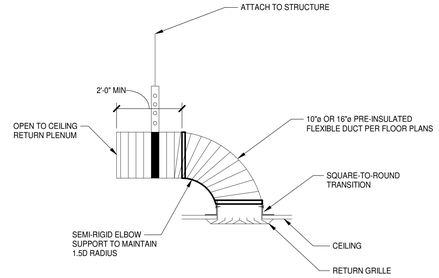
DUCT INSULATION JOINT DETAIL
NO SCALE



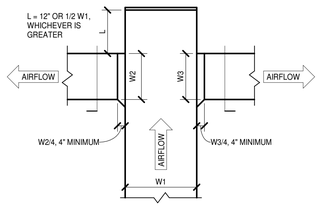
CONDENSING UNIT MOUNTING DETAIL
NO SCALE



FLEXIBLE DUCT TO DIFFUSER CONNECTION DETAIL
NO SCALE

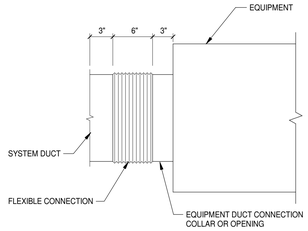


RETURN AIR BOOT DETAIL
NO SCALE



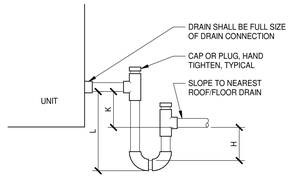
NOTE:
1. REFER TO *BRANCH CONNECTION TO DIFFUSER DETAILS* FOR BRANCH TAKE-OFF REQUIREMENTS.

END OF DUCT MAIN DETAIL
NO SCALE



NOTE: THIS DETAIL APPLIES TO ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS UNLESS OTHERWISE INDICATED

EQUIPMENT DUCT CONNECTION DETAIL
NO SCALE



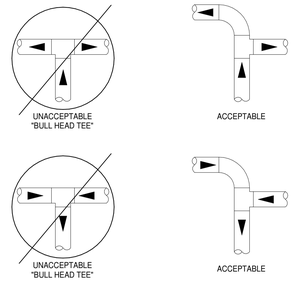
K = 1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE + 1"
H = 1/2K
L = H + K + PIPE DIAMETER + INSULATION

NOTES:

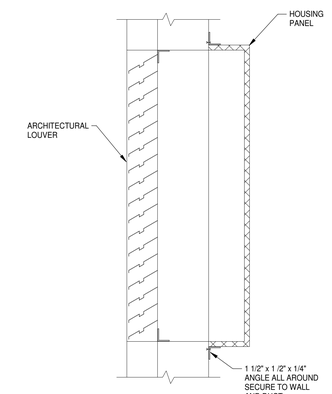
1. LOCATE TRAP AS CLOSE AS POSSIBLE TO UNIT OUTLET WITH BOTTOM BELOW SUPPORT STRUCTURE.
2. COORDINATE MOUNTING/CURB HEIGHT AS REQUIRED TO PROVIDE PROPER CONDENSATE DRAINAGE/TRAP HEIGHT.
3. NOTIFY ARCHITECT BEFORE FABRICATION IF PHYSICAL CONDITIONS PREVENT INSTALLATION OF DEPTH INDICATED.

NEGATIVE PRESSURE CONDENSATE DRAIN DETAIL
NO SCALE

ALL EXPOSED DUCTWORK AND PIPING SHALL BE NOTED AS "EXPOSED" ON THE PLANS.



PIPE TEE CONFIGURATION DETAIL
NO SCALE



WALL LOUVER DETAIL
NO SCALE

AIR HANDLING UNIT INSTALLATION:

PROVIDE DUCTED PLENUM STAND. STAND SHALL BE COMPLETELY INSULATED. STAND SHALL BE RIGID ENOUGH TO SUPPORT UNIT AND DUCTWORK WITHOUT DEFLECTION. INSURE THAT THERE IS AN AIRTIGHT SEAL BETWEEN UNIT AND STAND. POORLY CONSTRUCTED STANDS WILL BE REJECTED.

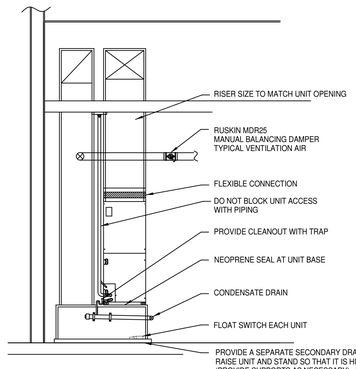
PROVIDE SECONDARY DRAIN PAN WITH A FLOAT SWITCH WIRED TO SHUTDOWN THE AIR HANDLER AND THE CONDENSING UNIT.

INSTALL ALL ITEMS SHIPPED LOOSE WITH THE UNIT. INSTALL ELECTRIC HEAT COILS. PROVIDE FOR ELECTRICAL SUBCONTRACTOR INVOLVEMENT AS NEEDED. COORDINATE WITH THE SUPPLIER TO UNDERSTAND WHAT FEATURES AND OPTIONS ARE FIELD INSTALLED.

INSURE THAT PROPER ACCESS TO THE UNIT IS MAINTAINED. DO NOT RUN PIPING IN FRONT OF ACCESS PANELS.

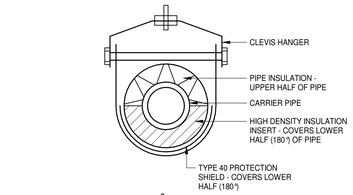
INSTALL REFRIGERANT PIPING AS HIGH AS POSSIBLE DROPPING AS NECESSARY TOWARDS CONDENSING UNIT. CONTRACTOR SHALL INVESTIGATE OBSTRUCTIONS AND SELECT THE ROUTE RESULTING IN THE BEST PIPE APPLICATION.

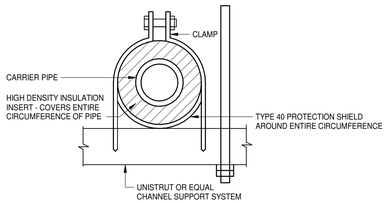
SUPPORT HORIZONTAL REFRIGERANT SUCTION PIPING 4 FEET ON CENTER. LIQUID LINE MAY BE STRAPPED TO THE INSULATED SUCTION LINE WITH DUCT TAPE.

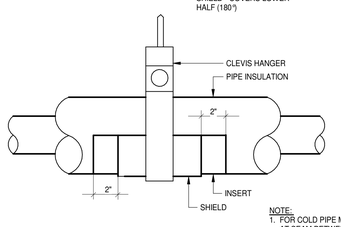


PROVIDE A SEPARATE SECONDARY DRAIN PAN MIN 2" LARGER THAN PLENUM STAND. RAISE UNIT AND STAND SO THAT IT IS HIGHER THAN THE EDGE OF THE DRAIN PAN (PROVIDE SUPPORTS AS NECESSARY). INSTALL ON EQUIPMENT PAD.

SPLIT SYSTEM HEAT PUMP
NO SCALE

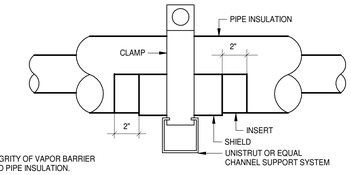






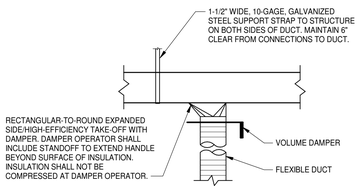
NOTE:
1. FOR COLD PIPE MAINTAIN INTEGRITY OF VAPOR BARRIER AT SEAM BETWEEN INSERT AND PIPE INSULATION.

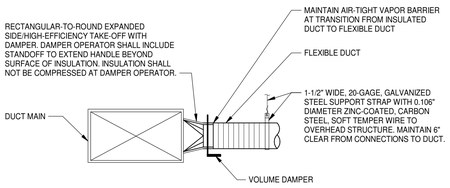
CLEVIS OR BAND HANGER



TRAPEZE OR CLAMPED SYSTEM

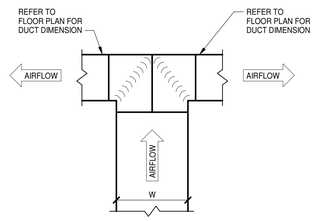
PIPE SUPPORT AND THERMAL SHIELD DETAILS
NO SCALE





NOTES:
1. FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED WITH NYLON MECHANICAL BANDS OR PANDUIT STRAP.
2. IN EXPOSED AREAS, PROVIDE RIGID GALVANIZED STEEL BRANCH DUCT TO DIFFUSERS IN LIEU OF FLEXIBLE DUCT UNLESS INDICATED OTHERWISE. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR METAL DUCTS.

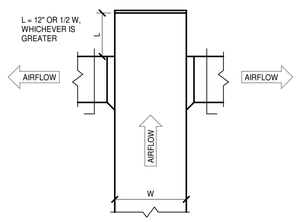
BRANCH CONNECTION TO DIFFUSER DETAILS
NO SCALE



NOTES:

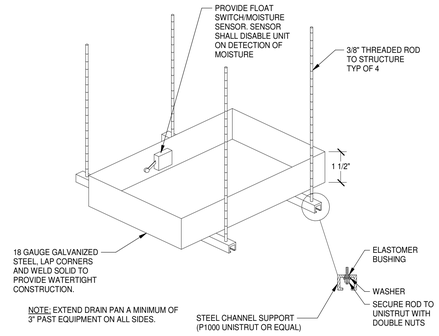
1. APPLIES WHERE "W" EXCEEDS 24" OR WHEN AIRFLOW EXCEEDS 1,500 CFM.

DIVIDED FLOW BRANCH DETAILS
NO SCALE



NOTES:

1. *REFER TO BRANCH CONNECTION TO DIFFUSER DETAILS* FOR BRANCH TAKE-OFF REQUIREMENTS.
2. APPLIES TO:
   A. WHERE "W" IS LESS THAN 24"
   B. ROUND DUCT BRANCHES TO DIFFUSERS
   C. WHEN AIRFLOW IS EQUAL TO OR LESS THAN 1,500 CFM.



NOTE: EXTEND DRAIN PAN A MINIMUM OF 3" PAST EQUIPMENT ON ALL SIDES.

AUXILIARY DRAIN PAN MOUNTING DETAIL
NO SCALE

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MOSELEYARCHITECTS.COM

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 26273
03/08/24
JUSTIN P. CARLSON

SOUTH CAROLINA
MOSELEY ARCHITECTS No. 3983
CERTIFICATE OF AUTHORIZATION

GEORGETOWN COUNTY RE-ENTRY FACILITY

611315
GEORGETOWN COUNTY
GEORGETOWN, SOUTH CAROLINA

PROJECT NO: 611315
DATE: MARCH 8, 2024

REVISIONS	
DATE	DESCRIPTION

DETAILS

M5.1

2/26/2024 8:26:13 PM

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
XX	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
XX	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROVE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
F	FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10"AFF.
FK	FIRE ALARM MANUAL PULL STATION. KEY OPERATED, MOUNT AT +3'-10"AFF.
SD	FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 26. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
S	SMOKE DETECTOR, CEILING MOUNT.
H	HEAT DETECTOR, CEILING MOUNT.
CO	CO DETECTOR, CEILING MOUNT.
G	DEVICE WITH DEVICE GUARD. SYMBOL MAY VARY
TS	FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
FS	FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
PS	FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
M	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
C	FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
B	FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0"AFF.

POWER LEGEND

SYMBOL	DESCRIPTION
	APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6"AFF.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6"AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10"AFF.
	CORD REEL OUTLET, CEILING MOUNT.
	METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6"AFF, UNO.
J	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
	MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT W/HANDLE AT +3'-10" AFF, UNO.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT W/HANDLE AT +3'-10"AFF, UNO.
	DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT W/HANDLE AT +4'-6"AFF, UNO.
	MAGNETIC MOTOR STARTER, WITH OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT +4'-6"AFF, UNO.
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH. WITH OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.. MOUNT W/HANDLE AT + 4'-6"AFF, UNO.
E	EQUIPMENT POWER CONNECTION.
	MOTOR CONNECTION.
M	CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION.
EL	POWER FOR ELECTRIC DOOR LOCK CONNECTION.
G	EMERGENCY GENERATOR.
	PANELBOARD.
T	TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.
XXX	FEEDER TAG. REFER TO FEEDER SCHEDULE

COMMUNICATIONS LEGEND

NOTE: REFER TO DETAILS ON E4.1 FOR BOX & CONDUIT, CABLING AND TERMINAL JACK REQUIREMENTS.

SYMBOL	DESCRIPTION
	TELECOMMUNICATIONS OUTLET. MOUNT AT +3'-10"AFF.
	TELECOMMUNICATIONS OUTLET. MOUNT AT +1'-6"AFF.
	INMATE PHONE , MOUNT AT +3'-10"AFF.
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING.
	VIDEO VISIT STATION, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT
	CATV OUTLET, REFER TO DETAIL ON E4.1 AND ARCHITECTURAL DRAWING FOR MOUNTING HEIGHTS.
	REFER TO DETAIL ON E4.1 AND ARCHITECTURAL DRAWING FOR MOUNTING HEIGHTS.
	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.
	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION GROSS-CONNECT, UNO. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL."
SF	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA FLUSH WALL BOX MOUNTED +4'AFF. PROVIDE 1.25" CONDUIT WITH BUSHING FROM BOX TO ABOVE CEILING. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
WA	WIRELESS ACCESS POINT
	TELECOMMUNICATIONS EQUIPMENT RACK.
	2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
TGB	TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6"AFF.
M	SMOKE DAMPERS. REFER TO DETAILS MATRIX ON E4.1

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.

C. FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.

D. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.

E. LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.

F. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.

G. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.

H. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC, COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.

I. ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE, LINO. THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.

J. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.

K. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.

L. WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.

M. PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
S	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10"AFF. SUBSCRIPT/SUPERSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:
	^{3} INDICATES 3-WAY LIGHT SWITCH
	^{4} INDICATES 4-WAY LIGHT SWITCH
	^{D} INDICATES DIMMER SWITCH
	^{P} INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON
	^{K} INDICATES KEY OPERATED LIGHT SWITCH
	^{OS} INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR
	$_{OD}$ INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
	LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION
	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
PE	PHOTOELECTRIC CELL FOR LIGHTING CONTROL. WALL MOUNT AT +10-0"AFF. AIM NORTH.
	LIGHT FIXTURE, CEILING MOUNT.
	LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
	LIGHTING FIXTURE.
	LIGHTING FIXTURE ON EMERGENCY POWER.
	WALL WASHER LIGHTING FIXTURE.
	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	EXIT SIGN, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	EXIT SIGN, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	LIGHT FIXTURE, POLE MOUNT.

ABBREVIATIONS

1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
A	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CLR	CLEAR
CO.	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FFSCP	FIRE FIGHTER'S SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	FUSE PER NAMEPLATE DATA
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER)
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFP	GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFSS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION.
MTD	MOUNTED
N	NEUTRAL
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NO.	NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD
PD	PROTECTIVE DEVICE
RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SPEC.	SPECIFICATION(S)
ST	SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

COPPER FEEDER SCHEDULE

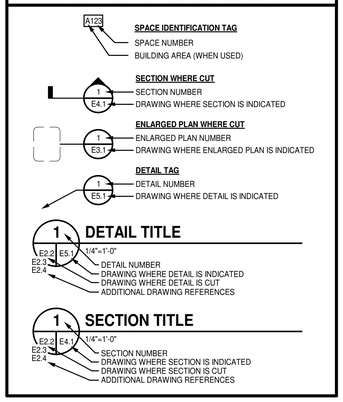
FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"	30Y	1	4#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"	35Y	1	4#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"	40Y	1	4#8,#10 G	3/4"
45	1	3#6,#10 G	1"	45Y	1	4#6,#10 G	1"
50	1	3#6,#10 G	1"	50Y	1	4#6,#10 G	1"
60	1	3#4,#10 G	1"	60Y	1	4#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"	70Y	1	4#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"	80Y	1	4#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"	90Y	1	4#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"	100Y	1	4#1,#8 G	1 1/4"
110	1	3#2,#6 G	1 1/2"	110Y	1	4#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"	125Y	1	4#1,#6 G	1 1/2"
150	1	3#1/0,#6 G	2"	150Y	1	4#1/0,#6 G	2"
175	1	3#2/0,#6 G	2"	175Y	1	4#2/0,#6 G	2"
200	1	3#3/0,#6 G	2"	200Y	1	4#3/0,#6 G	2"
225	1	3#4/0,#4 G	2 1/2"	225Y	1	4#4/0,#4 G	2 1/2"
250	1	3-250KCM,#4 G	2 1/2"	250Y	1	4-250kCM,#4 G	2 1/2"
300	1	3-350KCM,#4 G	2 1/2"	300Y	1	4-350kCM,#4 G	2 1/2"
350	2	3#2/0,#3 G	3"	350Y	2	4#2/0,#3 G	3"
400	2	3#3/0,#3 G	2"	400Y	2	4#3/0,#3 G	2"
400SE	2	3#3/0	2"				

NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.
3. SIZES ADJUSTED PER NEC 110.14.

ONE LINE DIAGRAM LEGEND

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	FUSED SWITCH
	TRANSFORMER
	TRANSFER SWITCH
XXX	FEEDER DESIGNATION
CT	CURRENT TRANSFORMER
PT	POTENTIAL TRANSFORMER

GRAPHICS SYMBOLS LEGEND



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MOSELEY ARCHITECTS PROFESSIONAL ENGINEERING CERTIFICATE OF AUTHORIZATION C-3469 NORTH CAROLINA CHARLOTTE, NC

GEORGETOWN COUNTY RE-ENTRY FACILITY

611315
GEORGETOWN COUNTY
GEORGETOWN, SOUTH CAROLINA

PROJECT NO: 611315
DATE: FEBRUARY 09, 2024

REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

E0.1

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LIGHT FIXTURE SCHEDULE

FIXTURE							LAMP				
TYPE	DESCRIPTION	MANUFACTURER	SERIES NO.	VOLTAGE	WATTAGE	LUMENS	TYPE	COLOR TEMP.	MOUNTING	OPTIONS	COMMENTS
A1	2x4 LED TROFFER	LITHONIA	2RTL4 48L GZ10 LP850	120 V	48	4800 lm	LED	5000 K	RECESSED		PROVIDE FLANGE KIT WHEN MOUNTED IN DRYWALL CEILING
A2	2x4 LED TROFFER	LITHONIA	2RTL4 48L GZ10 LP850	120 V	48	4800 lm	LED	5000 K	RECESSED	1400LM BATTERY	PROVIDE FLANGE KIT WHEN MOUNTED IN DRYWALL CEILING
A5	2x2 LED TROFFER	LITHONIA	2RTL2 48L GZ10 LP850	120 V	42	4200 lm	LED	5000 K	RECESSED		PROVIDE FLANGE KIT WHEN MOUNTED IN DRYWALL CEILING
A6	2x2 LED TROFFER	LITHONIA	2RTL2 48L GZ10 LP850	120 V	42	4200 lm	LED	5000 K	RECESSED		PROVIDE FLANGE KIT WHEN MOUNTED IN DRYWALL CEILING
K1	STRIP LIGHT	LITHONIA	CDS L48 DM 50K 80CRI	120 V	48	4800 lm	LED	5000 K	SURFACE OR CHAIN 12'-0" AFF UNO		
K2	STRIP LIGHT	LITHONIA	CDS L48 DM 50K 80CRI	120 V	48	4800 lm	LED	5000 K	SURFACE OR CHAIN 12'-0" AFF UNO	1400LM BATTERY	
R2	EXTERIOR WALL MOUNT	LITHONIA	TWPX1LED	120 V	40	3100 lm	LED	5000 K	WALL 12'-6" AFF UNO	1400LM BATTERY	
X1	SINGLE FACE EXIT SIGN	LITHONIA	LES 1 R	120 V	5		LED		UNIVERSAL	BATTERY	CHEVRONS AS INDICATED

PANELBOARD SCHEDULE LV1

LOCATION: ELECTRICAL V106 — FED FROM: ATS

400 AMP MCB — 120/208 Wye — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 22 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	REC V100	0.7	1.5					LTG SHOP	1	20 A	2
3	20 A	1	REC V100			0.7	1.0			LTG ADMIN	1	20 A	4
5	20 A	1	REC V101					0.5	0.5	EXTERIOR LIGHTING	1	20 A	6
7	20 A	1	REC V105	0.9	0.3					FACP (L) (RED HANDLE)	1	20 A	8
9	20 A	1	REC V103, V106			0.7	0.3			FAAP (L) (RED HANDLE)	1	20 A	10
11	20 A	1	REC V106					0.2	0.5	MOTOR DOOR V109	1	20 A	12
13	20 A	1	REC V106	0.2									14
15	20 A	1	REC V107			0.7	3.2						16
17									3.2	PHP-1 (ML)	3	35 A	18
19					3.2								20
21							1.0			GENERATOR BATTERY...	1	20 A	22
23									3.0	GENERATOR BLOCK HEATER (ML)	2	40 A	24
25					3.0								26
27							0.3			EF-1 (L)	1	20 A	28
29	20 A	1	REC V110					0.9	0.4	EF-3 (L)	1	20 A	30
31	20 A	1	REC V101	0.4	0.5					RCP-1 (ML)	1	20 A	32
33	20 A	1	REC V101			0.4	0.4			EF-2 (L)	1	20 A	34
35	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	36
37	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	38
39	25 A	2	HP-1 (ML)			1.5	2.9			AHU-1 (ML)	2	40 A	40
41								1.5	2.9				42
43	45 A	2	HP-2 (ML)	2.6	4.4					AHU-2 (ML)	2	60 A	44
45						2.6	4.4						46
47	20 A	2	HP-3 (ML)					0.1	1.8	AHU-3 (ML)	2	25 A	48
49				0.1	1.8								50
51	20 A	2	UH-2 (ML)			1.5	4.0			EWH-1 (ML)	3	60 A	52
53								1.5	4.0				54
55				4.9	4.0								56
57	100 A	3	LV2			3.3	1.5			UH-1 (ML)	2	20 A	58
59								2.8	1.5				60
				28 kVA		29 kVA		25 kVA					
				237 A		247 A		204 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	2440 VA	125.00%	3050 VA
EXTERIOR LIGHTING	520 VA	125.00%	650 VA
RECEPTACLES	12620 VA	89.62%	11310 VA
AC / HEAT PUMP	35809 VA	100.00%	35809 VA
ELECTRIC HEAT	6000 VA	100.00%	6000 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	21100 VA	100.00%	21100 VA

Panel Totals
Total Conn. Load: 81.6 kVA
Total Est. Demand: 81.0 kVA
Total Conn. Current: 226 A
Total Est. Demand... 225 A

PANELBOARD SCHEDULE LV2

LOCATION: SHOP V109 — FED FROM: LV1

100 A MCB — 120/208 Wye — 3 PH 4 W — MOUNT: SURFACE — PANEL ASSEMBLY RATED (KAIC): 22 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	REC V109	0.7	0.7					CORD REEL V109	1	20 A	2
3	20 A	1	REC V109			0.7	0.7			CORD REEL V109	1	20 A	4
5	20 A	1	REC V109					0.7	0.7	CORD REEL V109	1	20 A	6
7	20 A	1	REC V109	1.2	0.7					CORD REEL V109	1	20 A	8
9	20 A	1	REC V109			0.7	0.7			CORD REEL V109	1	20 A	10
11	20 A	1	REC V109					0.7	0.7	CORD REEL V109	1	20 A	12
13	20 A	1	REC V109	1.6	--					SPACE ONLY	1	--	14
15	20 A	1	MOTOR DOOR V109			0.5	--			SPACE ONLY	1	--	16
17	20 A	1	SPARE					0.0	--	SPACE ONLY	1	--	18
19	20 A	1	SPARE	0.0	--					SPACE ONLY	1	--	20
21	20 A	1	SPARE			0.0	--			SPACE ONLY	1	--	22
23	20 A	1	SPARE					0.0	--	SPACE ONLY	1	--	24
				5 kVA		3 kVA		3 kVA					
				42 A		28 A		23 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	6320 VA	100.00%	6320 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	0 VA	0.00%	0 VA
MISCELLANEOUS	500 VA	100.00%	500 VA

Panel Totals
Total Conn. Load: 11.0 kVA
Total Est. Demand: 11.0 kVA
Total Conn. Current: 31 A
Total Est. Demand... 31 A

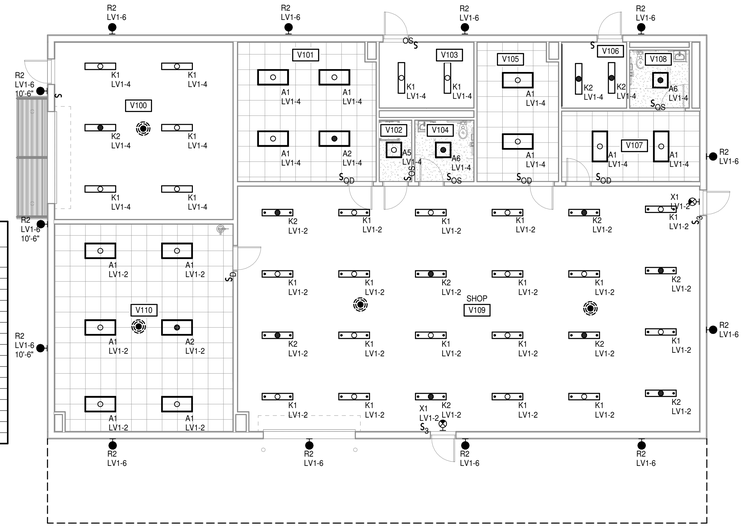
DIV 23 ELECTRICAL CONNECTION SCHEDULE

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
AHU-1	208 V	2	5.8 kVA	LV1	40,42	3#8,#10G,3/4"C	PROVIDED WITH UNIT	
AHU-2	208 V	2	8.7 kVA	LV1	44,46	3#4,#10G,1"C	PROVIDED WITH UNIT	
AHU-3	208 V	2	3.6 kVA	LV1	48,50	3#10,#10G,3/4"C	PROVIDED WITH UNIT	
D-1	120 V	1	0.1 kVA	LV1	30	2#12,#12G,3/4"C	MOTOR RATED SWITCH	INTERLOCK WITH FAN
D-2	120 V	1	0.1 kVA	LV1	34	2#12,#12G,3/4"C	MOTOR RATED SWITCH	INTERLOCK WITH FAN
EF-1	120 V	1	0.3 kVA	LV1	28	2#12,#12G,3/4"C	PROVIDED WITH UNIT	
EF-2	120 V	1	0.3 kVA	LV1	34	2#12,#12G,3/4"C	PROVIDED WITH UNIT	
EF-3	120 V	1	0.3 kVA	LV1	30	2#12,#12G,3/4"C	PROVIDED WITH UNIT	
EWH-1	208 V	3	12.0 kVA	LV1	52,54,56	3#6,#10G,1"C	240V,60A,3P,NEMA 1, DISC, FPND	
HP-1	208 V	2	2.9 kVA	LV1	39,41	3#10,#10G,3/4"C	240V,30A,3P,NEMA 3R, DISC, FPND	
HP-2	208 V	2	5.2 kVA	LV1	43,45	3#6,#10G,1"C	240V,60A,3P,NEMA 3R, DISC, FPND	
HP-3	208 V	2	0.2 kVA	LV1	47,49	3#12,#12G,3/4"C	240V,30A,3P,NEMA 3R, DISC, FPND	
PHP-1	208 V	3	9.6 kVA	LV1	16,18,20	3#8,#10G,3/4"C	PROVIDED WITH UNIT	
RCP-1	120 V	1	0.5 kVA	LV1	32	2#12,#12G,3/4"C	MOTOR RATED SWITCH	
UH-1	208 V	2	3.0 kVA	LV1	58,60	2#12,#12G,3/4"C	PROVIDED WITH UNIT	
UH-2	208 V	2	3.0 kVA	LV1	51,53	2#12,#12G,3/4"C	PROVIDED WITH UNIT	

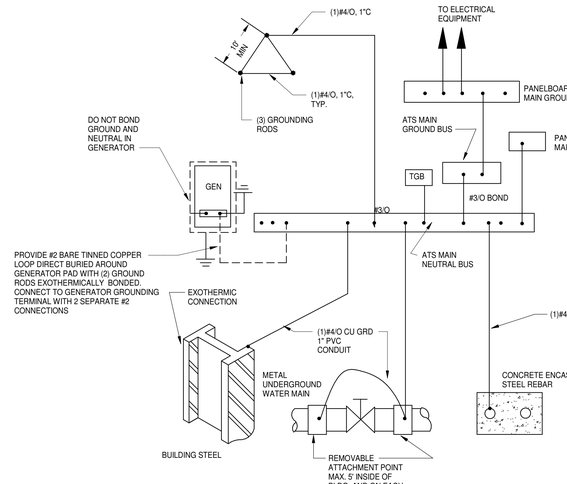
KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY: n

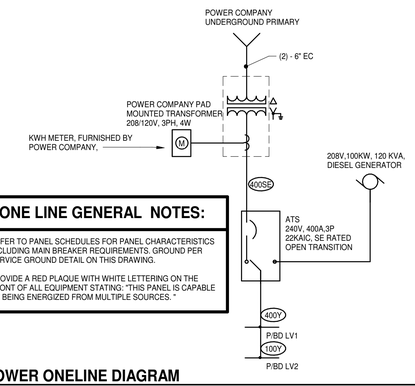
1. PROVIDE 3#10,#10G,3/4"C AND 240V, 3P, 30A NEMA 3R, DISCONNECT, FUSED PER MANUFACTURER'S RECOMMENDATION FOR WALK IN COOLER CONDENSER UNIT.
2. PROVIDE 2#10,#10G,3/4"C AND 120V, 1P, 30A DISCONNECT, FUSED PER MANUFACTURER'S RECOMMENDATION FOR WALK IN COOLER EVAPORATOR UNIT.
3. PROVIDE 4'X8'X3/4" FIRE RESISTANT PLYWOOD MOUNTED WITH LONG DIMENSION MOUNTED VERTICALLY ON WALLS AS INDICATED.



FLOOR PLAN - LIGHTING
1/8" = 1'-0"



GROUNDING SYSTEM DIAGRAM
NO SCALE

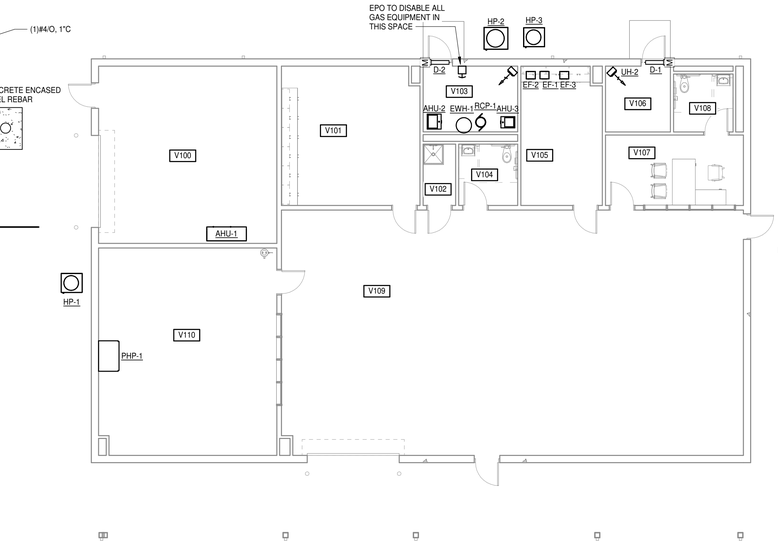


ONE LINE GENERAL NOTES:

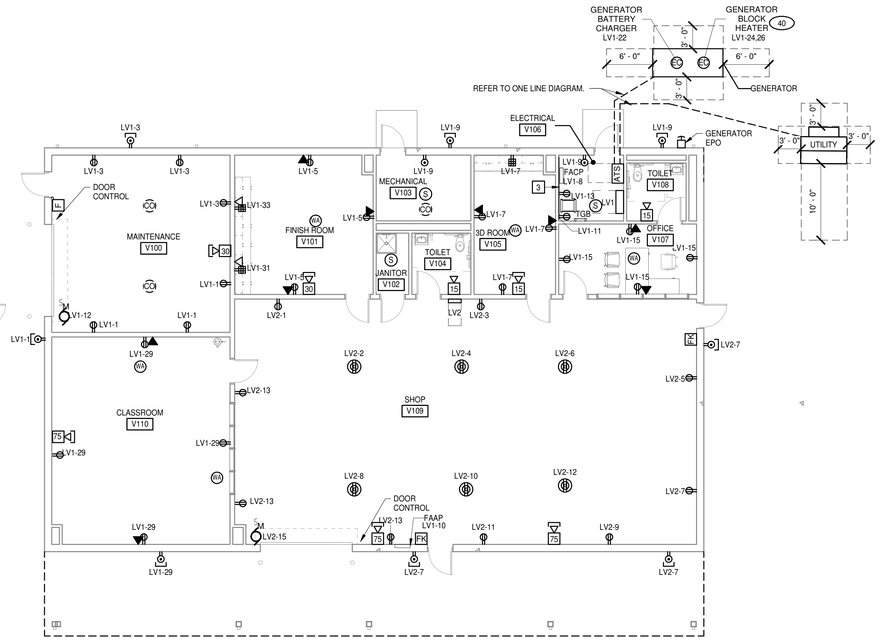
A. REFER TO PANEL SCHEDULES FOR PANEL CHARACTERISTICS INCLUDING MAIN BREAKER REQUIREMENTS. GROUND PER SERVICE GROUND DETAIL ON THIS DRAWING.

B. PROVIDE A RED PLAQUE WITH WHITE LETTERING ON THE FRONT OF ALL EQUIPMENT STATING: "THIS PANEL IS CAPABLE OF BEING ENERGIZED FROM MULTIPLE SOURCES. "

POWER ONELINE DIAGRAM
NO SCALE



FLOOR PLAN - MECHANICAL POWER
1/8" = 1'-0"



FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 024242 WILLIAM J. CARY JR.

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT C-3469 WILLIAM J. CARY JR. CHARLOTTE, NC

GEORGETOWN COUNTY RE-ENTRY FACILITY

611315
GEORGETOWN COUNTY
GEORGETOWN, SOUTH CAROLINA

PROJECT NO: 611315
DATE: FEBRUARY 09, 2024

REVISIONS	
DATE	DESCRIPTION

ELECTRICAL FLOOR PLAN

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