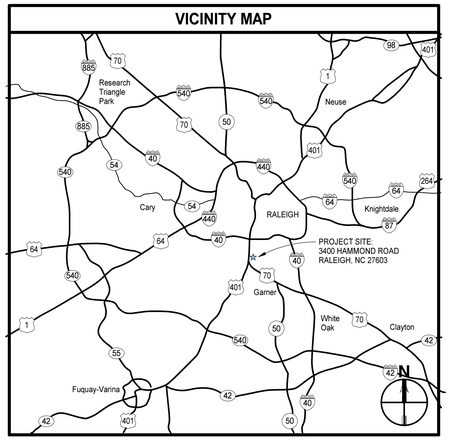
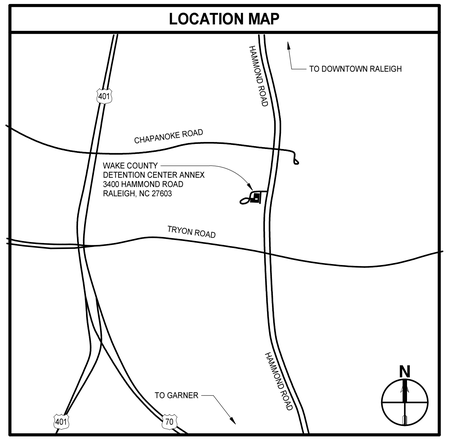
BID DOCUMENTS

DETENTION ANNEX RENOVATION

Wake County, North Carolina

J-397-SJD/DWC





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Foodesign Associates — KITCHEN & LAUNDRY CONSULTANT
8303 University Executive Park Drive, Suite 410 — Charlotte, North Carolina

REI Engineers — ROOFING CONSULTANT
9121 Anson Way, Suite 100 — Raleigh, North Carolina

Palacio Collaborative — COST CONSULTANT
128 Millport Circle, Suite 200 — Greenville, South Carolina

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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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10-14-2025

STEVEN J. HOPKINS — REGISTERED ARCHITECT — 11547 — NORTH CAROLINA — CHARLOTTE, NC

DETENTION ANNEX RENOVATION
3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

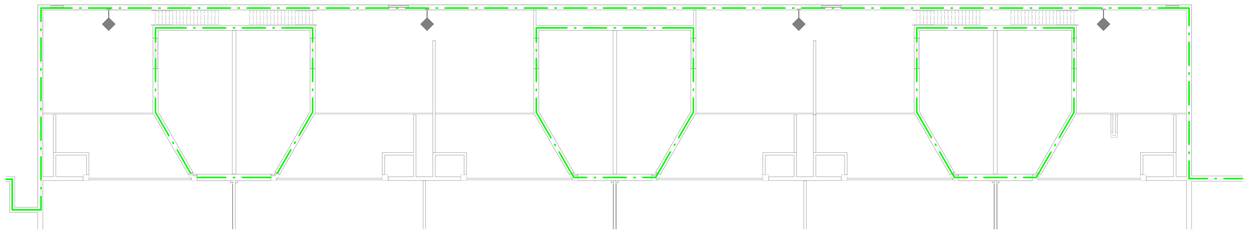
PROJECT NO: 642088
DATE: 10/13/2025

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DATE	DESCRIPTION

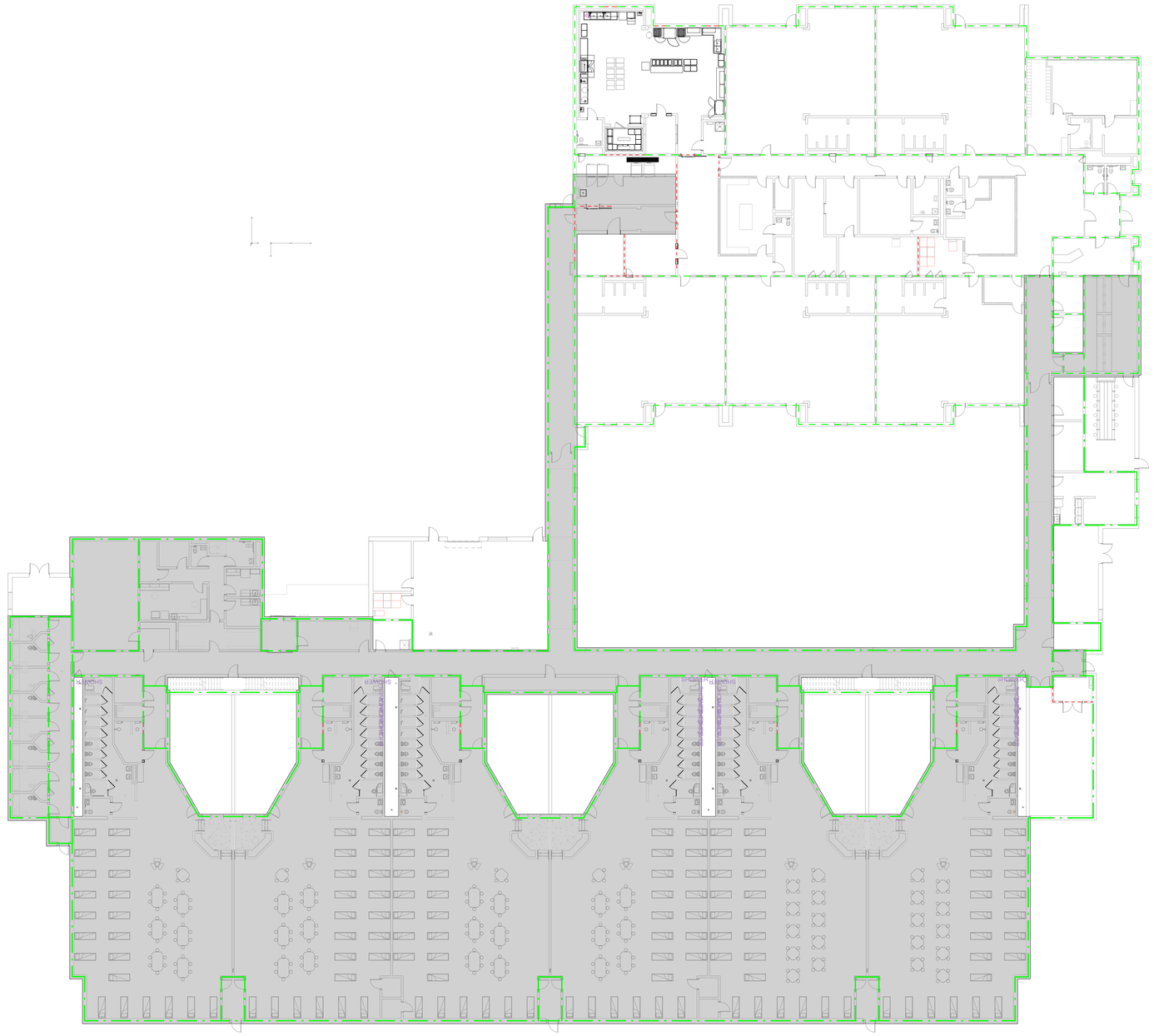
COVER

G0.1

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SECURITY WALL PLAN - EQUIPMENT PLATFORM
1/16" = 1'-0"



SECURITY WALL PLAN
1/16" = 1'-0"

SECURITY WALL LEGEND

- EXISTING SECURITY WALL (MASONRY) WITH #5 VERT. REINFORCING STEEL @ MAX 16" OC. ALL WALLS ARE GROUTED SOLID.
- EXISTING SECURITY WALL (MASONRY) WITH #4 VERT. REINFORCING STEEL @ MAX 16" OC. WALL CORES ARE GROUTED AT 16" OC.
- NEW SECURITY WALL (MASONRY) WITH #4 VERT. REINFORCING STEEL @ MAX 16" OC. ALL WALLS TO BE GROUTED SOLID.
- SHADED AREA INDICATES SECURE AREA: ALL ELECTRICAL & HVAC ITEMS (INCLUDING FASTENERS), ACCESS DOORS & SEALANTS TO BE SECURITY GRADE. ALL SPRINKLER HEADS TO BE INSTITUTIONAL GRADE. ALL SCREWS & FASTENERS USED IN THESE AREAS TO BE SECURITY TYPE.

NOTE: COORDINATE ALL REINFORCING LOCATIONS IN SECURITY WALLS WITH STRUCTURAL WALL REQUIREMENTS; MOST STRINGENT CONDITION SHALL GOVERN.

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10-14-2025

MOSELEY ARCHITECTS, P.C.
REGISTERED ARCHITECTS
NEW CORPORATION
50149
NORTH CAROLINA
CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
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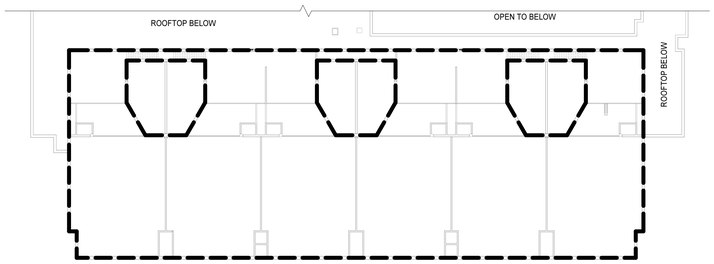
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DATE	DESCRIPTION

SC
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A
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KEY PLAN

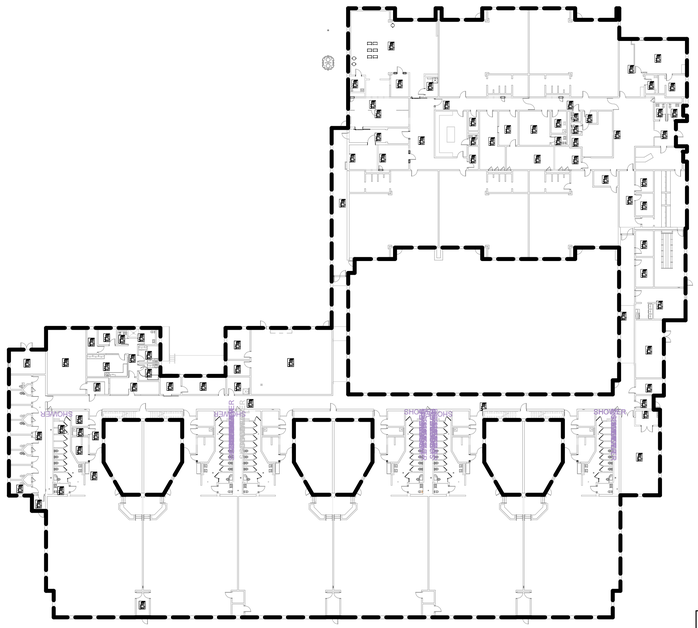
SECURE AREA & SECURITY WALLS FLOOR PLAN

G1.1

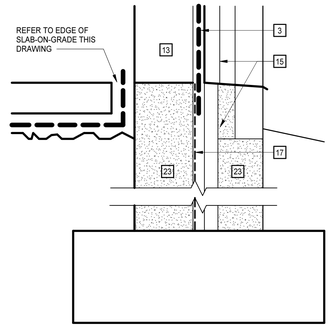
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EQUIPMENT PLATFORM

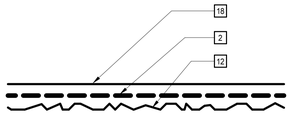


LEVEL 1



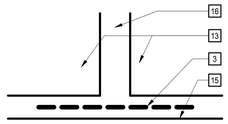
FOOTING/FOUNDATION

NO SCALE — REFER TO WALL SECTIONS, WALL ASSEMBLIES, AND BASE OF WALL DETAIL FOR ADDITIONAL INFORMATION



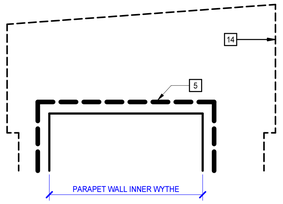
PLANE OF SLAB-ON-GRADE

NO SCALE



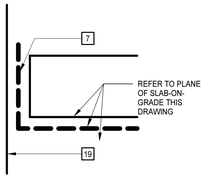
EXTERIOR WALL JOINTS

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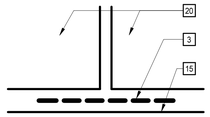
PARAPET

NO SCALE — REFER TO WALL SECTIONS AND WALL ASSEMBLIES FOR ADDITIONAL INFORMATION



EDGE OF SLAB-ON-GRADE

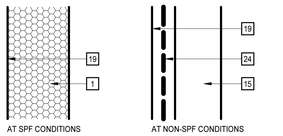
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PLAN OR SECTION VIEW

DISSIMILAR MATERIALS

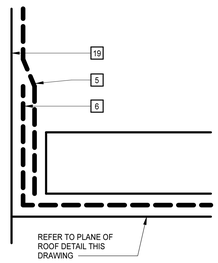
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AT SPF CONDITIONS — AT NON-SPF CONDITIONS

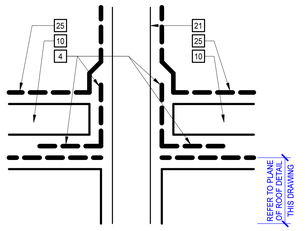
PLANE OF EXTERIOR WALL

NO SCALE — REFER TO WALL ASSEMBLIES FOR ADDITIONAL INFORMATION



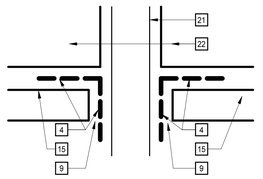
ROOF TO WALL

NO SCALE — REFER TO ROOF AND WALL ASSEMBLIES FOR ADDITIONAL INFORMATION



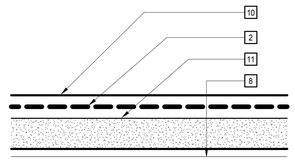
ROOF PENETRATIONS

NO SCALE — REFER TO ROOF ASSEMBLIES FOR ADDITIONAL INFORMATION



WALL PENETRATIONS

NO SCALE



PLANE OF ROOF

NO SCALE — REFER TO ROOF ASSEMBLIES FOR ADDITIONAL INFORMATION

FLOOR PLAN/BUILDING SECTION LEGEND

- - - - - - -	EXTENT OF EXISTING AIR BARRIER MEMBRANE / MATERIAL / SYSTEM AND EXTERIOR BUILDING ENVELOPE ENCLOSURE

THIS DRAWING DEPICTS THE EXTENT OF THE EXISTING AIR BARRIER MEMBRANE / MATERIAL / SYSTEM AND EXTERIOR BUILDING ENVELOPE ENCLOSURE. THE DRAWING IS CONCEPTUAL IN NATURE AND IS COMPLEMENTARY TO OTHER AIR BARRIER AND BUILDING ENVELOPE ENCLOSURE DETAILS, SECTIONS, ASSEMBLIES, AND SPECIFICATIONS.

THE UNDERSLAB VAPOR / AIR BARRIER MATERIAL IN ASSOCIATION WITH THE AIR BARRIER MEMBRANE / MATERIAL ON THE WALLS AND ROOF COMPOSE THE EXTERIOR BUILDING ENVELOPE ENCLOSURE TO PREVENT AIR INFILTRATION AND EXFILTRATION.

THE EXTERIOR BUILDING ENVELOPE ENCLOSURE MAY EXTEND WITHIN EXTERIOR WALLS WHERE THE INTERIOR AND EXTERIOR ENVIRONMENTS ARE NOT SEPARATED (E.G., MECHANICAL AND ELECTRICAL ROOMS, STAIRS, ELEVATORS, AND SIMILAR UNCONDITIONED SPACES). IN SUCH AREAS, MAINTAIN AIR BARRIER CONTINUITY AT THE PARTITIONS SEPARATING THEM FROM CONDITIONED SPACES, SEALING ALL PENETRATIONS, VOIDS, AND GAPS FROM FLOOR TO DECK ABOVE. WHERE SUCH AREAS HAVE PAINTED MASONRY PARTITIONS WITH ADJACENT, SUSPENDED CEILINGS, CONTINUE PAINT FINISH ABOVE CEILINGS FULL HEIGHT TO DECK.

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY [n]

1. SPF AIR BARRIER
2. VAPOR/AIR BARRIER MEMBRANE
3. AIR BARRIER TRANSITION STRIP
4. AIR BARRIER TRANSITION STRIP AROUND ENTIRE PENETRATION
5. AIR BARRIER MEMBRANE - LAP AND CONTINUE UP AND OVER PARAPET
6. VAPOR/AIR BARRIER MEMBRANE - TURN UP, PROVIDE CONTINUOUS AIR-TIGHT SEAL AND ADHERE TO WALL AND TERMINATE PER MFR INSTRUCTIONS
7. VAPOR/AIR BARRIER MEMBRANE - EXTEND UP FACE OF WALL, PROVIDE CONTINUOUS AIR-TIGHT SEAL AND ADHERE TO WALL, THEN CUT OFF FLUSH WITH TOP OF SLAB
8. ROOF DECK
9. FULLY SEAL BETWEEN INSULATION AND PENETRATION ITEM
10. ROOF INSULATION
11. SUBSTRATE BOARD
12. POROUS FILL
13. EXTERIOR WALL INNER WYTHE
14. COPING - OUTLINE MAY VARY
15. CAVITY INSULATION
16. JOINT WIDTH VARIES
17. DAMPPROOFING
18. SLAB-ON-GRADE
19. FACE OF WALL, SHEATHING OR VERTICAL ELEMENT
20. DISSIMILAR MATERIALS
21. PENETRATING ITEM
22. MATERIAL OR WALL BEING PENETRATED
23. GROUTED SOLID MASONRY - SERVES AS AIR BARRIER
24. AIR BARRIER SYSTEM
25. ROOF MEMBRANE

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10-14-2025

MOSELEY ARCHITECTS P.C. — NORTH CAROLINA REGISTERED ARCHITECTS CORPORATION — 50149 — NORTH CAROLINA — CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

GENERAL INFORMATION - AIR BARRIER

G2.1

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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.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Wake County Detention Annex Renovation
Address 3400 Hammond Road, Raleigh, NC Zip Code 27602
Owner/Authorized Agent: David Rutherford Phone # (919) 856-6366 E-Mail david.rutherford@wake.gov
Owned By: County
Code Enforcement Jurisdiction: County

CONTACT: Moseley Architects Design Team

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Moseley Architects	Jason Hopkins	11547	(704) 540-3755	jhopkins@moseleyarchitects.com
Civil	CLH Design				
Electrical	Moseley Architects	William Cary	024242	(704) 540-3755	wcary@moseleyarchitects.com
Fire Alarm	Moseley Architects	William Cary	024242	(704) 540-3755	wcary@moseleyarchitects.com
Plumbing	Moseley Architects	Justin P. Carlson	033520	(704) 540-3755	jcarlson@moseleyarchitects.com
Mechanical	Moseley Architects	Justin P. Carlson	033520	(704) 540-3755	jcarlson@moseleyarchitects.com
Sprinkler-Standpipe	Moseley Architects	Justin P. Carlson	033520	(704) 540-3755	jcarlson@moseleyarchitects.com
Structural					
Other					

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: Renovation

2018 NC EXISTING BUILDING CODE: N/A N/A N/A
CONSTRUCTED: (date) 1987/ 2001 **CURRENT OCCUPANCY(S)** (Ch. 3): I-3, Use Condition 3 and 4
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch. 3): I-3, Use Condition 3 and 4
RISK CATEGORY (Table 1604.5): **Current:** N/A **Proposed:** III

BASIC BUILDING DATA
Construction Type: II-A
Sprinklers: Yes NFPA 13
Standpipes: No
Primary Fire District: No **Flood Hazard Area:** No
Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ.FT)	NEW (SQ.FT)	SUB-TOTAL
Level 1	67,887		
TOTAL	67,887		

ALLOWABLE AREA

Primary Occupancy Classification(s): Institutional - I-3 Condition 3
Accessory Occupancy Classification(s): -
Incidental Uses (Table 509):
Special Uses (Chapter 4 – List Code Sections): N/A
Special Provisions: (Chapter 5 – List Code Sections): N/A
Mixed Occupancy: No Separation: Select one Exception: N/A

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,3]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	I-3	67,887	45,000	33,750	78,750

[1] Frontage area increases from Section 506.3 are computed thus: N/A
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _1350___ (F)
b. Total Building Perimeter = __1350_____ (P)
c. Ratio (F/P) = ____1_____ (F/P)
d. W = Minimum width of public way = ___30_____ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ ____75____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (ABOVE GRADE)	SHOWN ON PLANS	CODE REFERENCE [1]
Building Height in Feet (Table 504.3) [2]	85	23	N/A
Building Height in Stories (Table 504.4) [3]	3	1	N/A

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (w/ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Primary Structural Frame, including columns, girders, trusses	GREATER THAN 30'	1 HR.	1 HR.	--	--	--	--
Bearing Walls							
Exterior	Greater than 30-ft	0 HR.	0 HR.	--	--	--	--
North		--	--	--	--	--	--
East		--	--	--	--	--	--
West		--	--	--	--	--	--
South		--	--	--	--	--	--
Interior		1 HR.	1 HR.				
Nonbearing Walls and Partitions Exterior walls	Greater than 30-ft	0 HR.	0 HR.	--	--	--	--
North		--	--	--	--	--	--
East		--	--	--	--	--	--
West		--	--	--	--	--	--
South		--	--	--	--	--	--
Interior walls and partitions		0 HR.	0 HR.	--	--	--	--
Floor Construction Including supporting beams and joists		1 HR.	N/A	--	--	--	--
Roof Construction, including supporting beams and joists		1 HR.	1 HR.	--	--	--	--
Shaft Enclosures - Exit		1 HR.	N/A	--	--	--	--
Shaft Enclosures - Other		1 HR.	N/A	--	--	--	--
Corridor Separation		1 HR.	1 HR.	X1/ LS2.1	U905	C-AJ-5069	HW-D-0030
Occupancy/Fire Barrier Separation		1 HR.	N/A	--	--	--	--
Party/Fire Wall Separation		2 HR.	N/A	--	--	--	--
Smoke Barrier Separation		1 HR.	1 HR.	X1/ LS2.1	U905	C-AJ-5069	HW-D-0030
Smoke Partition		N/A	N/A	--	--	--	--
Tenant/Dwelling Unit/ Sleeping Unit Separation		N/A	N/A	--	--	--	--
Incidental Use Separation		1 HR.	1 HR.	X1/ LS2.1	U905	C-AJ-5069	HW-D-0030

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
-	-	-	-

2018 NC Administrative Code and Policies

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: Yes
Carbon Monoxide Detection: Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1.1

- [x] Fire and/or smoke rated wall locations (Chapter 7)
- [ ] Assumed and real property line locations (if not on the site plan)
- [ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
- [x] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- [x] Occupant loads for each area
- [x] Exit access travel distances (1017)
- [x] Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- [x] Dead end lengths (1020.4)
- [x] Clear exit widths for each exit door.
- [x] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- [x] Actual occupant load for each exit door
- [ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- [x] Location of doors with panic hardware (1010.1.10)
- [ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- [x] Location of doors with electromagnetic egress locks (1010.1.9.9)
- [x] Location of doors equipped with hold-open devices
- [ ] Location of emergency escape windows (1030)
- [ ] The square footage of each fire area (202)
- [ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- [ ] Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A							

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED: REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
Public		-				
Staff		-				
TOTAL						

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE											
	Required										
	Provided										

* Note: 2 service sinks are required by code. 2 service sinks provided.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

North Carolina Department of Health & Human Services (DHHS) – Facility Services – Jail & Detention Section (DFS)
North Carolina Department of Insurance (DOI)
North Carolina Division of Environmental Health (NCDNER)

2018 NC Administrative Code and Policies

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10-14-2025
STEVEN J HOPKINS REGISTERED ARCHITECT 11547 NORTH CAROLINA CHARLOTTE, NC

MOSELEY ARCHITECTS P.C. REGISTERED ARCHITECTS NC CORPORATION 50149 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION
3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

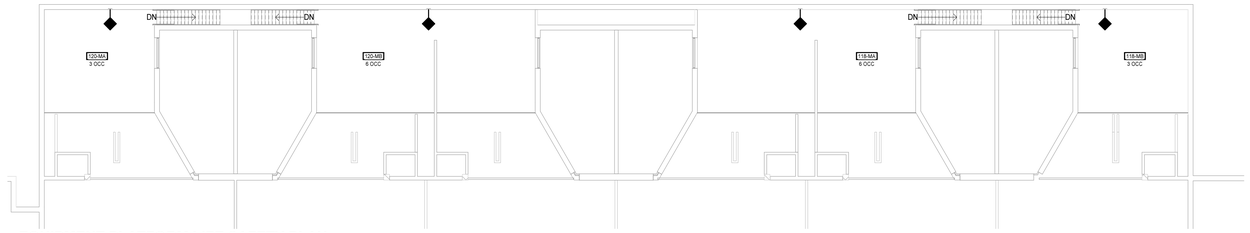
REVISIONS

DATE	DESCRIPTION

CODE SUMMARY

LS1.0

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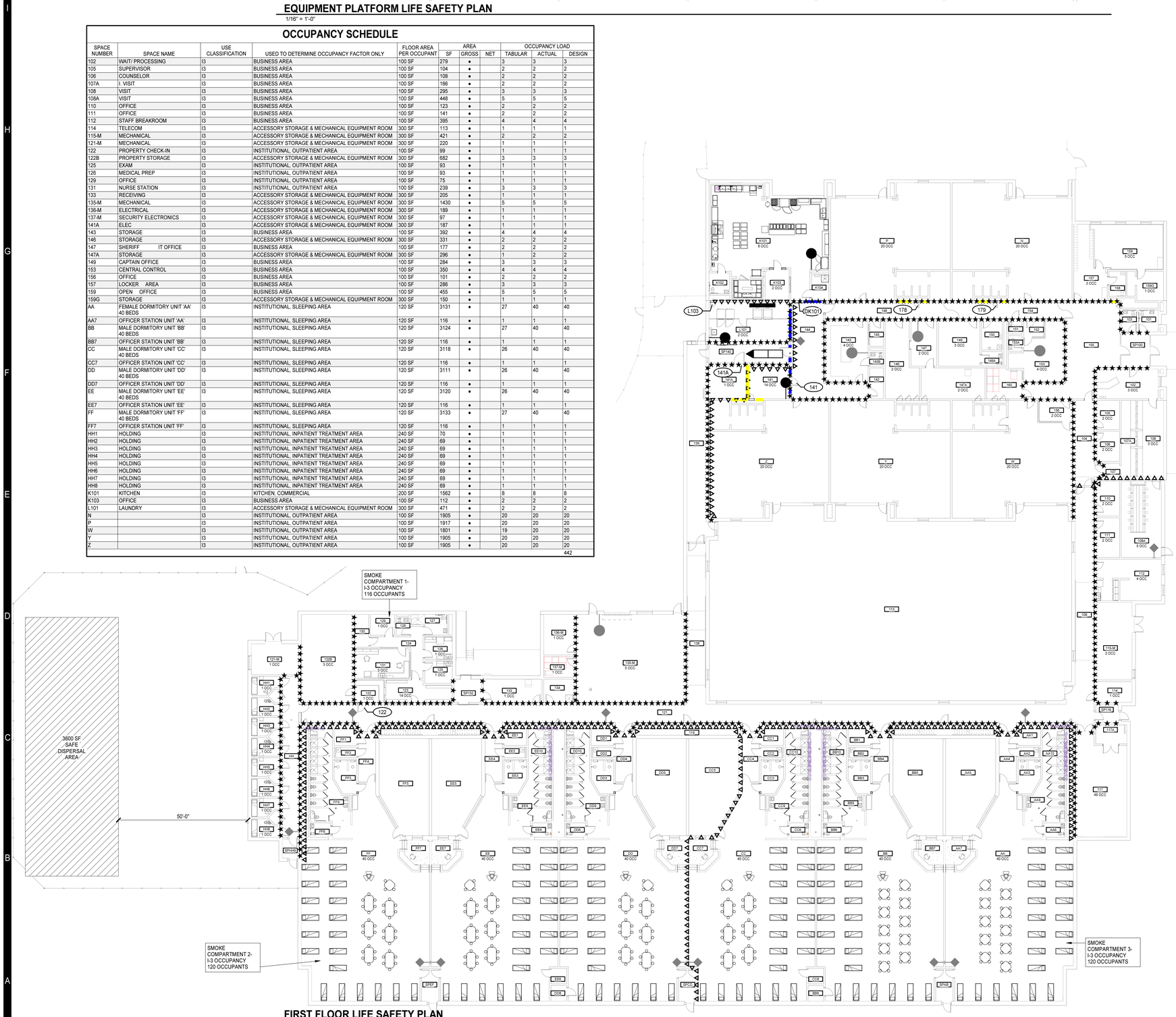


EQUIPMENT PLATFORM LIFE SAFETY PLAN

1/16" = 1'-0"

OCCUPANCY SCHEDULE

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA SF	AREA GROSS	AREA NET	OCCUPANCY LOAD TABULAR	OCCUPANCY LOAD ACTUAL	OCCUPANCY LOAD DESIGN
102	WAIT/ PROCESSING	I3	BUSINESS AREA	100 SF	279	•		3	3	3
105	SUPERVISOR	I3	BUSINESS AREA	100 SF	104	•		2	2	2
106	COUNSELOR	I3	BUSINESS AREA	100 SF	108	•		2	2	2
107A	I. VISIT	I3	BUSINESS AREA	100 SF	166	•		2	2	2
108	VISIT	I3	BUSINESS AREA	100 SF	295	•		3	3	3
108A	VISIT	I3	BUSINESS AREA	100 SF	448	•		5	5	5
110	OFFICE	I3	BUSINESS AREA	100 SF	123	•		2	2	2
111	OFFICE	I3	BUSINESS AREA	100 SF	141	•		2	2	2
112	STAFF BREAKROOM	I3	BUSINESS AREA	100 SF	395	•		4	4	4
114	TELECOM	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	113	•		1	1	1
115-M	MECHANICAL	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	421	•		2	2	2
121-M	MECHANICAL	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	220	•		1	1	1
122	PROPERTY CHECK-IN	I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	99	•		1	1	1
122B	PROPERTY STORAGE	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	682	•		3	3	3
125	EXAM	I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	93	•		1	1	1
126	MEDICAL PREP	I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	93	•		1	1	1
129	OFFICE	I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	75	•		1	1	1
131	NURSE STATION	I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	239	•		3	3	3
133	RECEIVING	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	205	•		1	1	1
135-M	MECHANICAL	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	1430	•		5	5	5
136-M	ELECTRICAL	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	189	•		1	1	1
137-M	SECURITY ELECTRONICS	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	97	•		1	1	1
141A	ELEC	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	187	•		1	1	1
143	STORAGE	I3	BUSINESS AREA	100 SF	392	•		4	4	4
146	STORAGE	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	331	•		2	2	2
147	SHERIFF IT OFFICE	I3	BUSINESS AREA	100 SF	177	•		2	2	2
147A	STORAGE	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	296	•		1	2	2
149	CAPTAIN OFFICE	I3	BUSINESS AREA	100 SF	284	•		3	3	3
153	CENTRAL CONTROL	I3	BUSINESS AREA	100 SF	350	•		4	4	4
156	OFFICE	I3	BUSINESS AREA	100 SF	101	•		2	2	2
157	LOCKER AREA	I3	BUSINESS AREA	100 SF	286	•		3	3	3
159	OPEN OFFICE	I3	BUSINESS AREA	100 SF	455	•		5	5	5
159G	STORAGE	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	150	•		1	1	1
AA	FEMALE DORMITORY UNIT 'AA' 40 BEDS	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	3131	•		27	40	40
AA7	OFFICER STATION UNIT 'AA'	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	116	•		1	1	1
BB	MALE DORMITORY UNIT 'BB' 40 BEDS	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	3124	•		27	40	40
BB7	OFFICER STATION UNIT 'BB'	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	116	•		1	1	1
CC	MALE DORMITORY UNIT 'CC' 40 BEDS	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	3118	•		26	40	40
CC7	OFFICER STATION UNIT 'CC'	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	116	•		1	1	1
DD	MALE DORMITORY UNIT 'DD' 40 BEDS	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	3111	•		26	40	40
DD7	OFFICER STATION UNIT 'DD'	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	116	•		1	1	1
EE	MALE DORMITORY UNIT 'EE' 40 BEDS	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	3120	•		26	40	40
EE7	OFFICER STATION UNIT 'EE'	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	116	•		1	1	1
FF	MALE DORMITORY UNIT 'FF' 40 BEDS	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	3133	•		27	40	40
FF7	OFFICER STATION UNIT 'FF'	I3	INSTITUTIONAL, SLEEPING AREA	120 SF	116	•		1	1	1
HH1	HOLDING	I3	INSTITUTIONAL, INPATIENT TREATMENT AREA	240 SF	70	•		1	1	1
HH2	HOLDING	I3	INSTITUTIONAL, INPATIENT TREATMENT AREA	240 SF	69	•		1	1	1
HH3	HOLDING	I3	INSTITUTIONAL, INPATIENT TREATMENT AREA	240 SF	69	•		1	1	1
HH4	HOLDING	I3	INSTITUTIONAL, INPATIENT TREATMENT AREA	240 SF	69	•		1	1	1
HH5	HOLDING	I3	INSTITUTIONAL, INPATIENT TREATMENT AREA	240 SF	69	•		1	1	1
HH6	HOLDING	I3	INSTITUTIONAL, INPATIENT TREATMENT AREA	240 SF	69	•		1	1	1
HH7	HOLDING	I3	INSTITUTIONAL, INPATIENT TREATMENT AREA	240 SF	69	•		1	1	1
HH8	HOLDING	I3	INSTITUTIONAL, INPATIENT TREATMENT AREA	240 SF	69	•		1	1	1
K101	KITCHEN	I3	KITCHEN, COMMERCIAL	200 SF	1562	•		8	8	8
K103	OFFICE	I3	BUSINESS AREA	100 SF	112	•		2	2	2
L101	LAUNDRY	I3	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	471	•		2	2	2
N		I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	1905	•		20	20	20
P		I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	1917	•		20	20	20
W		I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	1801	•		19	20	20
Y		I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	1905	•		20	20	20
Z		I3	INSTITUTIONAL, OUTPATIENT AREA	100 SF	1905	•		20	20	20
										442



FIRST FLOOR LIFE SAFETY PLAN

1/16" = 1'-0"

LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX

	WALL	BARRIER	PARTITION	RATED EXT WALL
2 HR FIRE				
1 HR FIRE			★★★★★	
1 HR SMOKE		△△△△△		
SMOKE TIGHT				
INCIDENTAL				

RATED WALL COLOR KEY

FIRE PARTITION

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. DESIGNATIONS INDICATED IN GREY TONE ON THE LIFE SAFETY PLANS ARE EXISTING AND BASED OFF OF INFORMATION PROVIDED BY THE OWNER. NOTIFY ARCHITECDT IF FEILD CONDITIONS VARY.
4. WHERE PENETRATIONS ARE MADE IN EXISTING RATED WALLS, PATCH TO MAINTAIN RATING. SEE LS2.1

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 SMOKE COMPARTMENT
- LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT
- LIGHT FIXTURE ON EMERGENCY POWER, SUSPENDED
- PENDANT LIGHT FIXTURE ON EMERGENCY POWER, SUSPENDED
- EXIT SIGNS, REFER TO ELECTRICAL LIGHTING DRAWINGS

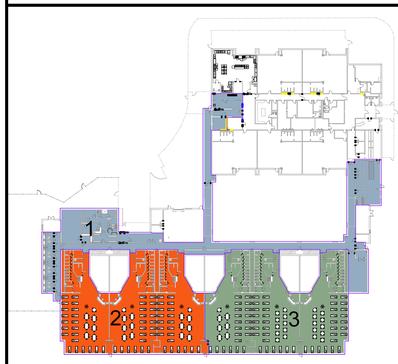
FIRE RATED ASSEMBLIES

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
X1	1HR,2HR	MIN. 8" CMU WALLS	U905	
X2	1HR	THROUGH WALL PENETRATION AT RATED WALLS	C-AJ-5069	
X3	1HR,2HR	CMU HEAD OF WALL TERMINATION	HW-D-0030	

SMOKE COMPARTMENT KEY PLAN



COMPARTMENT	AREA
1	12,222 SF
2	13,790 SF
3	13,620 SF

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10-14-2025

STEVEN J HOPKINS — REGISTERED ARCHITECT — 11547 — NORTH CAROLINA — CHARLOTTE, NC

MOSELEY ARCHITECTS PC — REGISTERED ARCHITECTS — NORTH CAROLINA CORPORATION — 50149 — CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

DATE	DESCRIPTION

LIFE SAFETY INFORMATION & OCCUPANCY SCHEDULE

LS1.1

10/13/2025 10:36:04 AM

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

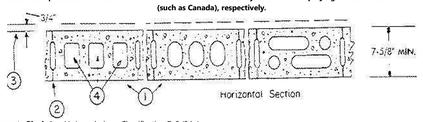
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U905

April 14, 2023

Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield® CGF, EnergyShield® PanelCast, EnergyShield® and "EnergyShield® XR

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

Holcim Solutions and Products US, LLC — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. **Building Units* —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

ATLAS ROOFING CORP — EnergyShield® Ply

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-04-14

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- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

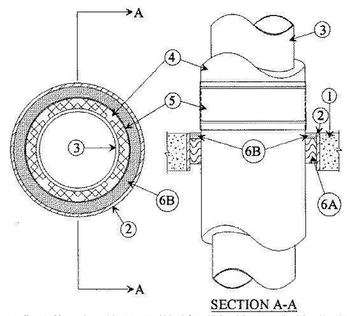
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. C-AJ-5069

October 27, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Ratings — 0 & 1 Hr (See Item 4)	T Ratings — 0 & 1 Hr (See Item 4)
	FH Rating — 2 Hr
	T Ratings — 0 & 1 Hr (See Item 4)



SECTION A-A

1. **Floor or Wall Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Floor assembly may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 22 in. (559 mm) except that for hollow-core precast concrete unit floors, m.ax diameter of opening is 7 in. (178 mm).
See **Concrete Blocks** (CAZT) category and **Precast Concrete Units** CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. **Metallic Sleeve —** (Optional) — Nom 22 in. (559 mm) diam (or smaller) Schedule 40 steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.

3. **Through Penetrants —** One metallic pipe or tubing to be positioned within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. **Steel Pipe —** Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Copper Tubing —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

C. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

4. **Pipe Covering Materials* — Cellular Glass Insulation —** Nom 1-1/2 in. to 3 in. (38 to 76 mm) thick cellular glass pipe insulation sized to the outside diam of the steel pipe or tube and installed in accordance with the manufacturer's instructions. T, FT and FTH Ratings are 0 hr when nom thickness of pipe insulation is is less than 3 in. (76 mm). T Rating is 1 hr when nom 3 in. (76 mm) thick pipe insulation is used. The annular space shall be min 3/4 in. (19 mm) to max 3 in. (76 mm).

5. **Metal Jacket —** Min 12 in. (305 mm) long jacket formed of min 0.010 in. (0.254 mm) thick steel or aluminum sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap. Jacket secured with min 1/2 in. (13 mm) wide stainless steel hose clamps or bands located within 2 in. (51 mm) of each end of the jacket and spaced a max of 10 in. (254 mm) OC. Jacket to be installed with abutting surface of sealant (Item 6B) on top of floor or both surfaces of wall.

6. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** Min 3 in. (76 mm) thickness of min 4.0 pcf (64 kg/m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. In hollow-core precast concrete unit floors, an additional min 1 in. (25 mm) thickness of packing material shall be tightly packed within annular space flush with bottom surface of floor.

B. **Fill, Void or Cavity Material* — Sealant —** Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with the top surface of the floor or with both surfaces of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-10-27

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XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada

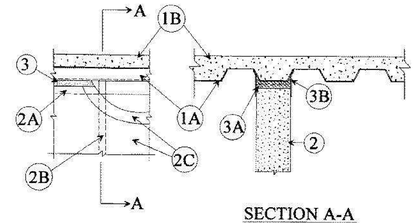
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0030

January 23, 2018

ANSI/UL2079	CAN/ULC S115
Assembly Rating — 2 Hr	F Rating — 2 Hr
Nominal Joint Width - 1 In.	FT Rating —2 Hr
Class II Movement Capabilities — 19% Compression or Extension	FH Rating — 2 Hr
L Rating At Ambient — Less Than 1 CFM/lin ft (See Item 3B)	FTH Rating — 2 Hr
L Rating At 400 F — Less Than 1 CFM/lin ft (See Item 3B)	Nominal Joint Width - 25 mm
	Class II Movement Capabilities —19% Compression or Extension
	L Rating At Ambient — Less Than 1.55 L/s/lin m (See Item 3B)
	L Rating At 204°C — Less Than 1.55 L/s/lin m (See Item 3B)



SECTION A-A

1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor And Form Units* —** Max 3 in. (76 mm) deep galv steel fluted floor deck .

A1. **Spray Applied Fire Resistive Material* —** (Optional, not shown) — Prior to the installation of the Forming Material and Fill, Void or Cavity Materials (Items 3A and 3B), the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 11/16 in (17 mm) thickness of fire resistive material.
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly —** (Not Shown)—As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. **The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly.** The roof assembly shall include the following construction features:

A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** (P 900 Series) - Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

C. **Roof Insulation — Mineral and Fiber Board* —** (P 700 Series) — Min 3/4 in. (19 mm) thick boards applied in one or more layers directly over steel or over gypsum board sheathing laid atop steel roof deck.

D. **Spray Applied Fire Resistive Material* —** (P700 Series, not shown)—Prior to the installation of the Deflective Channel, Forming Material and Fill, Void or Cavity Material (Items 3A, 3B, 3C), the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 11/16 in. (17 mm) thickness of fire resistive material.
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

2. **Wall Assembly —** Min 6-1/8 in. (156 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks*.**
See **Concrete Blocks** (CAZT) category in Fire Resistance Directory for names of manufacturers.

3. **Joint System — Max separation between bottom of floor or roof and top of wall is 1 in. (25 mm). The joint system is designed to accommodate a max 19 percent compression or extension from its installed width.** The joint system consists of a forming material and a fill material, as follows:

A. **Forming Material* —** Min 6-1/2 in. (165 mm) thickness of min 4 pcf (64 kg/m^3) density mineral wool batt insulation cut a min of 20 percent wider than the gap between the top of the wall and bottom of the steel floor or roof deck. Mineral wool to be compressed and firmly packed into the gap between the top of the wall and bottom of the steel floor or roof deck.
Johns Manville Corporation — MinWool-1200 Safing

ROCK WOOL MANUFACTURING CO — Delta Board or Delta-8

ROCKWOOL MALAYSIA SDN BHD — Type Safe

ROCKWOOL — Type Safe

THERMAFIBER/OWENS CORNING — Type SAF

B. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed or brushed on each side of the wall between the top of the wall and the bottom of the steel floor or roof deck to completely cover mineral wool and overlap a min of 1/2 in. (13 mm) onto wall and steel floor or roof deck on both sides of wall. When the steel floor or roof deck is coated with spray applied material, the fill material shall overlap min 2 in. (51 mm) onto the spray applied material.
3M COMPANY — FireDam™ Spray 200

B1. **Fill, Void or Cavity Material* — Tape —** As an alternate to Item B, Tape cut to size and press applied along length of joint to completely cover mineral wool and lap min 1 in. (25 mm) onto the steel floor units, or min 2 in. (51 mm) onto the spray applied fire resistive material (Item 1A1) on the steel floor units, and min 1 in. (25 mm) onto concrete wall. Adjoining lengths of Tape shall overlap min 1/2 in. (13 mm). Tape shall be applied at both sides of wall.
3M COMPANY — 3M Fire and Water Barrier Tape

L Ratings apply only when FireDam™ Spray 200 is used.

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Last Updated on 2018-01-23

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PHONE (704) 540-3755 FAX (704) 540-3754
MOSELEYARCHITECTS.COM

10-14-2025

STEVEN J HOPKINS
REGISTERED ARCHITECT
11547
NORTH CAROLINA
CHARLOTTE, NC

MOSELEY ARCHITECTS
PROFESSIONAL CORPORATION
REGISTERED ARCHITECTS
50149
NORTH CAROLINA
CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

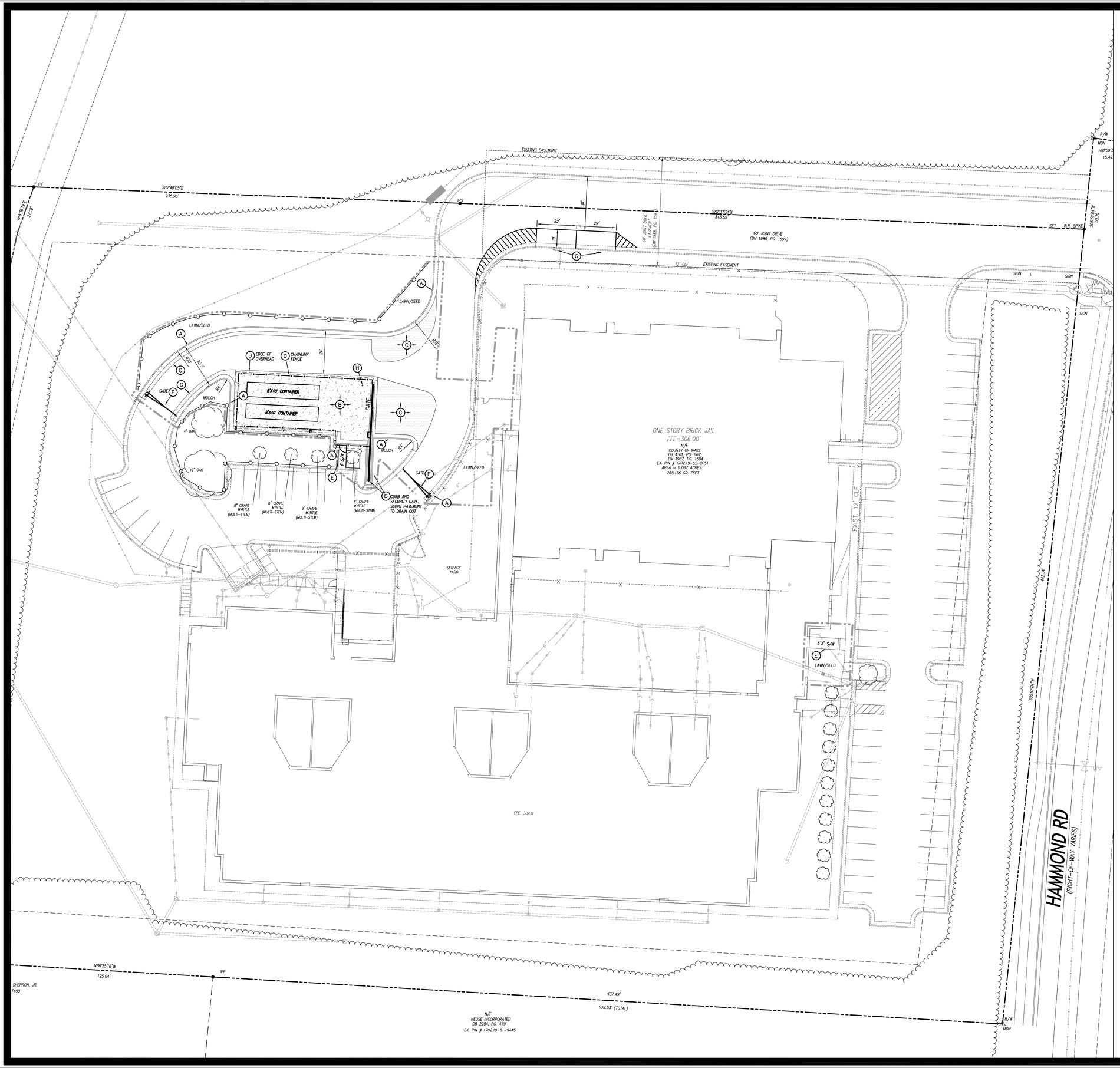
REVISIONS	
DATE	DESCRIPTION

FIRE-RESISTIVE ASSEMBLIES

LS2.1

10/13/2025 10:36:07 AM

J I G E D C B A
1 2 3 4 5 6 7 8 9 10



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF RALEIGH AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADII ARE 4-FT UNLESS OTHERWISE SHOWN.
7. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
9. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
10. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
11. CONTRACTOR TO PROVIDE AS-BUILT IMPERVIOUS SURVEY SEALED BY A NCPLS AT THE COMPLETION OF THE PROJECT.

KEY NOTES

- (A) 30-IN CURB & GUTTER, SEE DETAIL SHEET C4.1.
- (B) CONCRETE PAVEMENT, SEE DETAIL SHEET C4.1.
- (C) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C4.1.
- (D) SEE ARCHITECTURAL PLANS FOR CANOPY, CONTAINERS, FENCING, AND GATES.
- (E) CONCRETE SIDEWALK, SEE DETAIL SHEET C4.1.
- (F) PARKING BARRIER GATE AND CONTROLLER, SEE SPECIFICATIONS AND ELECTRICAL PLANS
- (G) SPECIAL PARKING SIGNAGE, SEE DETAIL SHEET C4.2.
- (H) STEEL BOLLARD, SEE DETAIL SHEET C4.2.
- (H) PAVEMENT MARKING, SEE TRAFFIC CONTROL NOTES, THIS SHEET.

SEE SHEET C4.1 FOR LANDSCAPE NOTES.

TRAFFIC CONTROL NOTES

ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.

ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACES	–	4-IN	WHT.
DIAGONAL	1205.09	8-IN	YEL.

ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKYD-RESIN TYPE PAINT.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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PHONE (704) 540-3755 FAX (704) 540-3754
MOSELEYARCHITECTS.COM

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 1699 ZACHARY R. PIERCE

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
Client Project Number

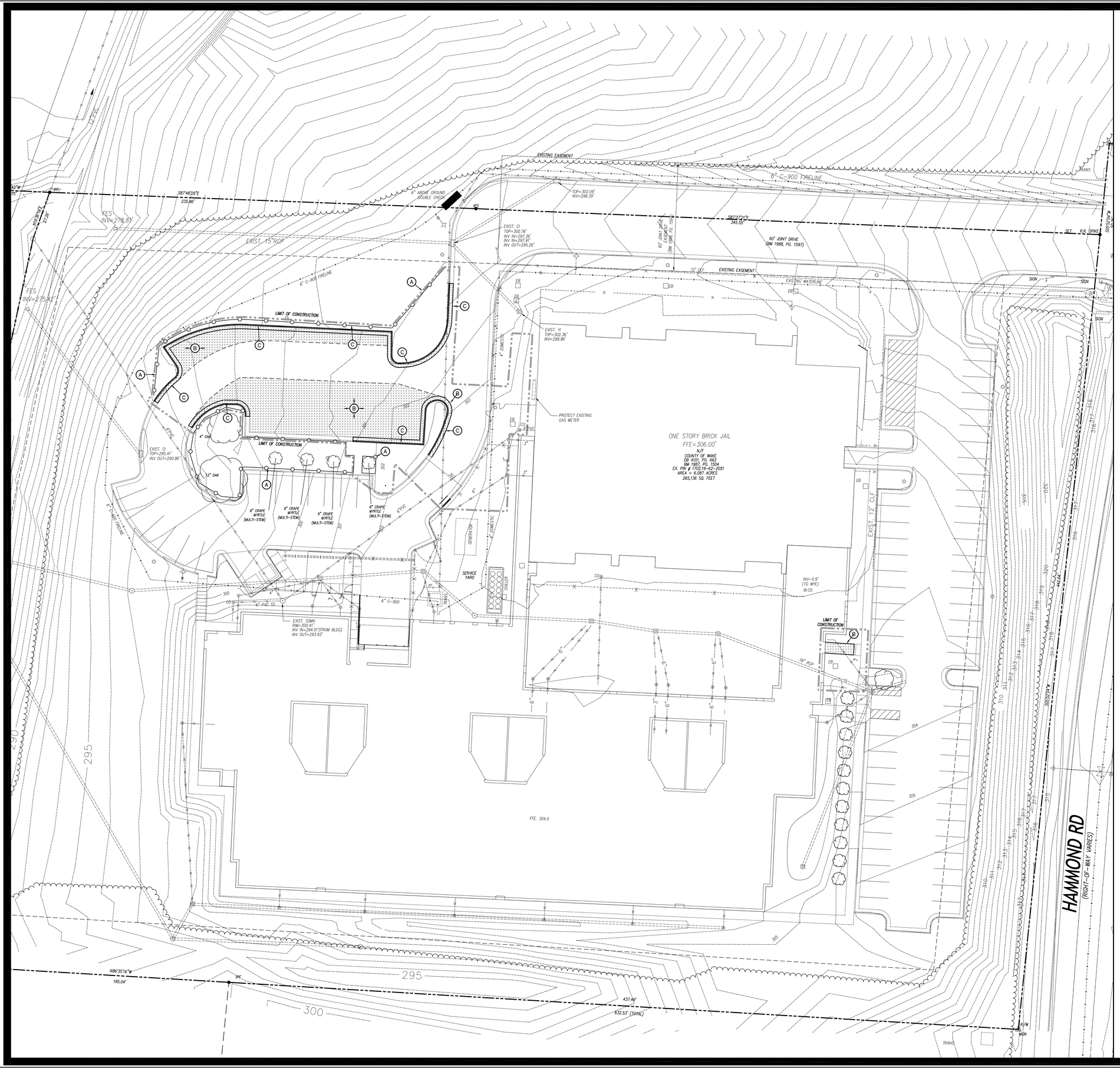
PROJECT NO: 642088
CLH PROJECT NO: 24-160
DATE: 10/13/2025

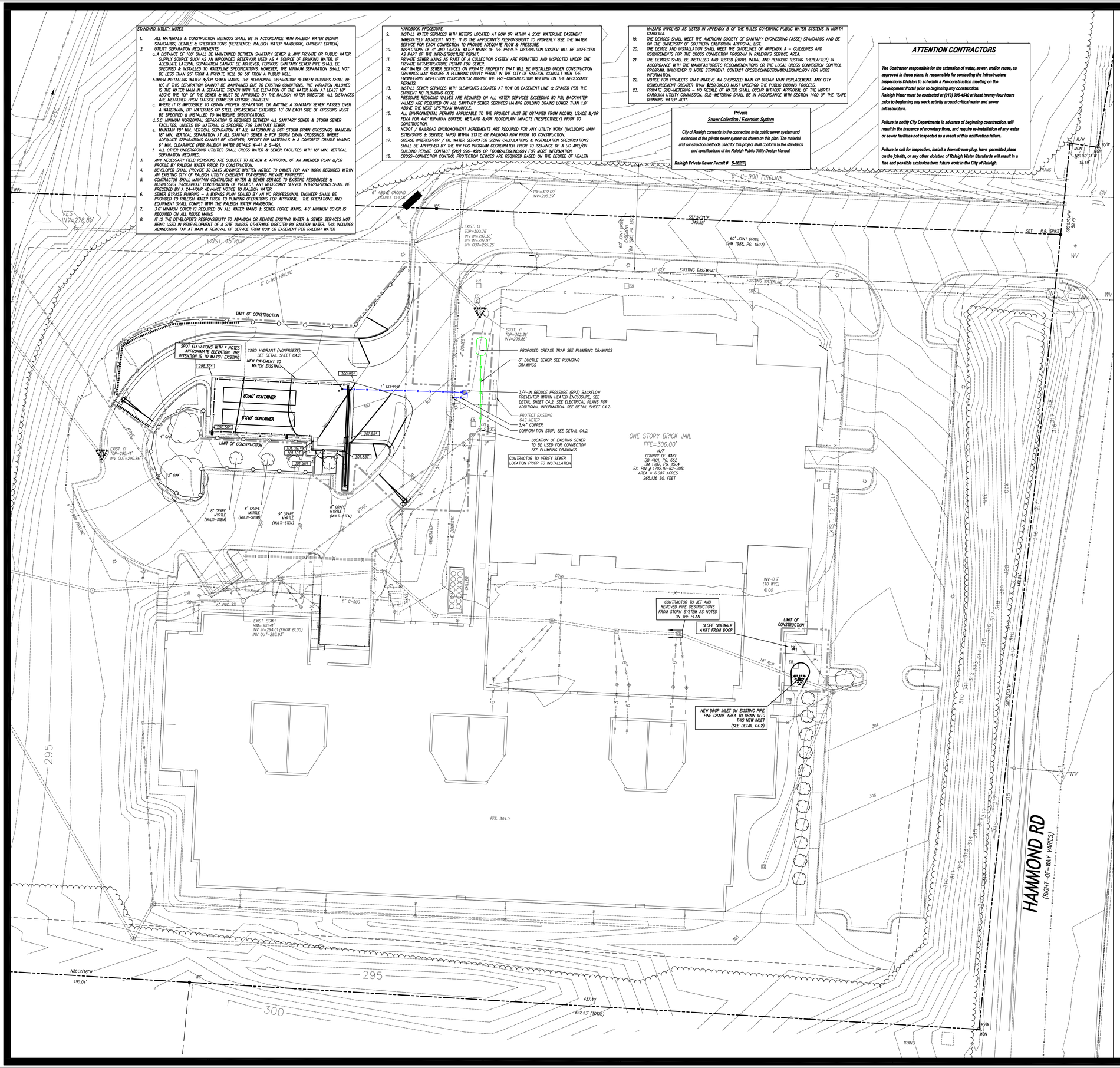
REVISIONS	
DATE	DESCRIPTION

CLH DESIGN
CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
T: 919.319.6716
LA: C-106 PE: C-1595

STAKING & LANDSCAPE PLAN

C1.1


EXISTING EASEMENT
6" C-900 FIRELINE
6" ABOVE GROUND DOUBLE CHECK
S87°48'25"E
235.86'
S87°47'15"E
345.55'
S05°52'04"W
60.26'
60' JOINT DRIVE (BM 1988, PG. 1597)
12' CLF
EXISTING WATERLINE
EXIST. 15" RCP
EXIST. CI
TOP=300.76'
INV IN=297.36'
INV IN=297.91'
INV OUT=295.26'
EXIST. YI
TOP=302.36'
INV=298.86'
TOP=302.09'
INV=298.39'
EXIST. CI
TOP=295.41'
INV OUT=290.86'
EXIST. SSMH
RIM=300.41'
INV IN=294.01'(FROM BLDG)
INV OUT=293.93'
PROTECT EXISTING GAS METER
ONE STORY BRICK JAIL
FFE=306.00'
N/F
COUNTY OF WAKE
DB 4101, PG. 662
BM 1987, PG. 1504
EX. PIN # 1702.19-62-2051
AREA = 6.087 ACRES
265,136 SQ. FEET
LIMIT OF CONSTRUCTION
LIMIT OF CONSTRUCTION
LIMIT OF CONSTRUCTION
12" OAK
4" OAK
6" CRAPE MYRTLE (MULTI-STEM)
8" CRAPE MYRTLE (MULTI-STEM)
9" CRAPE MYRTLE (MULTI-STEM)
8" CRAPE MYRTLE (MULTI-STEM)
SERVICE YARD
GENERATOR
PAVER
INV=0.9' (TO WYE)
18" RCP
FFE. 304.0
HAMMOND RD
(RIGHT-OF-WAY VARIES)
N86°35'16"W
195.04'
437.49'
632.53' (TOTAL)
IPF
R/W
MON
TRANS.
SET R.B. SPIKE
TRANS
SIGN
SIGN
SIGN
EXIST. 12" CLF
EXIST. 6" CLF
6" C-900 FIRELINE
6" PVC SS
4" DOMESTIC
4" DOMESTIC
6" DOMESTIC
6" FIRE
6" FIRE
6" FIRE



EROSION CONTROL LEGEND

TEMP. COMPOST SOCK INLET PROTECTION DEVICE, SEE DETAIL SHEET C4.1
TEMP. SILT BAG INLET PROTECTION, SEE DETAIL SHEET C4.1
TEMP. COMPOST SOCK, SEE DETAIL SHEET C4.1
TREE PROTECTION FENCE SEE DETAIL SHEET C4.1
EXISTING CONTOUR
FINISHED CONTOUR
TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)

GRADING LEGEND

EXISTING CONTOURS
FINAL CONTOURS
270.50(T) PROPOSED TOP OF CURB SPOT ELEVATION
PROPOSED GROUND/PAVEMENT ELEVATION
270.4' + EXISTING SURVEY SPOT ELEVATION

UTILITY LEGEND

	EXISTING	PROPOSED
CHILLED WATER	CW	CW
ELECTRICAL (OVERHEAD)	E	E
ELECTRICAL (UNDERGROUND)	UE	UE
FOUNDATION DRAIN	FD	FD
GAS	G	G
SANITARY SEWER	SS	SS
TELEPHONE (OVERHEAD)	T	T
TELEPHONE (UNDERGROUND)	UT	UT
WATER	W	W
ROOF DRAIN	RD	RD
FIRE PROTECTION	FP	FP
STORM DRAIN		
LIGHT POLE	LP	
UTILITY POLE	PP	
MANHOLE	MH	
CLEAN OUT	CO	
DROP INLET,CATCH BASIN	DI, CB	
FIRE HYDRANT	FH	
WATER VALVE	WV	
POST INDICATOR VALVE (PIV)		
FIRE DEPARTMENT CONNECTION (FDC)		

GENERAL NOTES - GRADING

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF RALEIGH AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
3. TOTAL DENUDED AREA = 7,585/ SF (0.17/AC).
4. CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
5. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
7. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
9. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
10. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

EROSION CONTROL GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF RALEIGH, STANDARDS, SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
4. TOTAL DISTURBED AREA: 7,585/SF (0.17/AC).
5. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM. CLEANING SHALL BE PERFORMED IN A MANNER WHICH PREVENTS SEDIMENT FROM BEING FLUSHED THROUGH PIPES TO THE EXISTING DRAINAGE SYSTEM.
6. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
7. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
8. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
9. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
10. CONTRACTOR SHALL USE TIRE WASH STATION TO PREVENT SEDIMENT FROM TRACKING ONTO THE ROAD IF CONSTRUCTION ENTRANCE IS FOUND INSUFFICIENT AT NO ADDITIONAL COST TO OWNER.
11. CONTRACTOR SHALL UTILIZE PAM FLOCCULANTS TO REDUCE RUN-OFF TURBIDITY. SEE SPECS.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION NOTES. SEE SHEET C4.2.

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION 6.8(2) (b)).

THE REQUIREMENTS ON SHEET C4.2 ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED MINIMUM REQUIREMENTS.

INSTALL TEMPORARY EXCELSOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.) UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (SHEET C4.2) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (SHEET C4.2) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

GENERAL NOTES-UTILITY

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF RALEIGH AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
3. COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
4. VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
5. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
6. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
7. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION, SEE SPECS FOR ALL AS-BUILT REQUIREMENTS.
8. CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT- DOWNS WITH THE OWNER.
9. SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
10. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

CLH DESIGN
CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
T: 919.319.6716
LA: C-106 PE: C-1595

MOSELEY ARCHITECTS
6210 ARDREY KELL ROAD • THE HUB AT WAVERLY, SUITE 425 • CHARLOTTE, NC 28277
PHONE (704) 540-3755 FAX (704) 540-3754
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050331 CHRISTOPHER D. CRISP Digitally signed by CHRISTOPHER D. CRISP Date: 2025.10.13 20:34:06-04'00'

DETENTION ANNEX RENOVATION

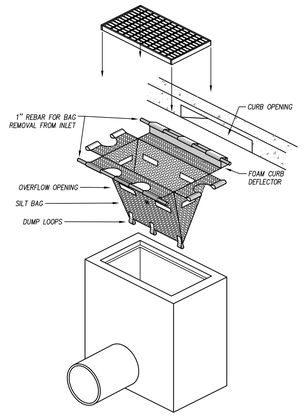
3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
Client Project Number

PROJECT NO: 842088
CLH PROJECT NO: 24-160
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

GRADING, EROSION CONTROL AND SITE UTILITY PLAN

C3.1



NOTES:

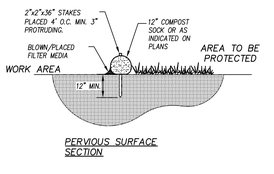
1. CONTRACTOR TO INSPECT SILT BAG EVERY TWO WEEKS OR AFTER EVERY SUBSTANTIAL RAIN EVENT.
2. CONTRACTOR TO REMOVE AND DISPOSE OF COLLECTED SILT AT AN ACCEPTABLE OFF SITE LOCATION.
3. COLLECTED SEDIMENT TO BE REMOVED ROUTINELY TO ENSURE FUNCTIONALITY OF SILT BAG.
4. DEVICE SHALL BE MANUFACTURED FROM WOVEN POLYPROPYLENE GEOTEXTILE TO FIT THE OPENING OF A CATCH BASIN OR DROP INLET TO FILTER SEDIMENT FROM RUNOFF ENTERING THE INLET. DEVICE SHALL BE PROVIDED WITH AN INTEGRAL CURB DEFLECTOR IF INSTALLED AT A CATCH BASIN WITH A VERTICAL OPENING ADJACENT TO A HORIZONTAL GRATE.
5. THE DEVICE SHALL BE A HIGH FLOW "SILTSACK" AS MANUFACTURED BY ACF ENVIRONMENTAL, INC. OR APPROVED EQUAL.
6. INSTALL DEVICE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND INSTALL A CURB DEFLECTOR IF APPROPRIATE.
7. INSPECT DEVICE AFTER EACH RAIN EVENT AND AT INTERVALS NOT EXCEEDING TWO WEEKS DURING CONSTRUCTION. REMOVE, EMPTY, CLEAN, AND REPLACE THE DEVICE AS NEEDED DURING CONSTRUCTION. EMPTY COLLECTED SEDIMENT IN APPROVED, PROTECTED LOCATION. REMOVE AND DISPOSE OF DEVICE FOLLOWING FULL AND PERMANENT STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA.

MAINTENANCE NOTES:

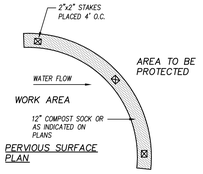
1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND MAKE REPAIRS AS NEEDED.
2. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
3. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

SILT BAG INLET PROTECTION

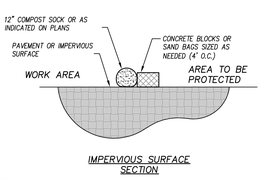
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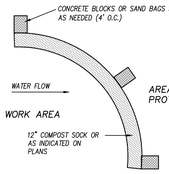
PERVIOUS SURFACE SECTION



PERVIOUS SURFACE PLAN



IMPERVIOUS SURFACE SECTION



IMPERVIOUS SURFACE PLAN

NOTES:

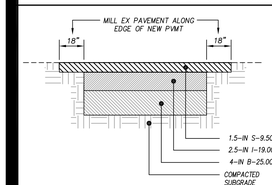
1. MATERIALS TO BE FILTREXX OR APPROVED EQUAL.
2. ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
3. COMPOST SOCKS SHALL BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREAS, PERPENDICULAR TO SHEET FLOW. COMPOST SOCKS ARE EFFECTIVE IN AREAS WHERE SEDIMENT ACCUMULATION OF LESS THAN SIX INCHES IS EXPECTED.
4. COMPOST SOCKS CAN BE APPLIED ON SLOPES UP TO A 2:1 GRADE WITH A MAXIMUM HEIGHT OF 10 FEET. COMPOST SOCK SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10 FEET IN HEIGHT.
5. 2"X2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
6. COMPOST SOCKS SHALL BE SLEEVED WHEN SECTIONS LONGER THAN 200'-LF ARE REQUIRED. STAKES SHALL BE PLACED ON SLEEVED AREAS TO KEEP SECTIONS TOGETHER.
7. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS OR SAND BAGS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
8. COMPOST SOCK SHOULD BE PLACED AT A 10 FOOT MINIMUM DISTANCE FROM THE TOE OF THE SLOPE TO ALLOW FOR A PROPER RUNOFF ACCUMULATION AND MAXIMUM SEDIMENT STORAGE. ON FLAT AREAS, COMPOST SOCK SHALL BE PLACED AT THE EDGE OF DISTURBED AREAS. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.

MAINTENANCE NOTES:

1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
2. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
3. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
5. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
6. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY COMPOST SOCK PERIMETER FENCE

N.T.S.



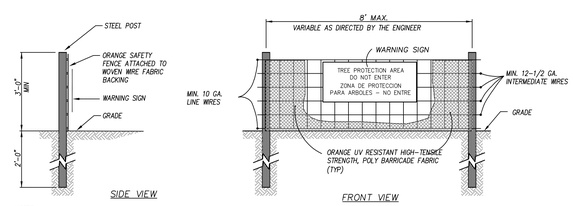
TYPICAL PATCH

NOTES:

1. ASPHALT PATCH SECTION SHALL BE INSTALLED WHERE PAVEMENT WIDTH IS LESS THAN 6-FT.
2. SEE EARTH MOVING AND ASPHALT PAVEMENT SPECIFICATIONS FOR PROOF-ROLLING, COMPACTION & TESTING REQUIREMENTS.
3. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

ASPHALT PATCH

N.T.S.

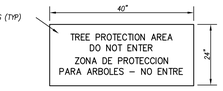


SIDE VIEW

FRONT VIEW

NOTES:

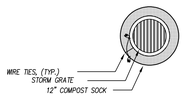
1. INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
3. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
4. SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 100' ON CENTER THEREAFTER.
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.



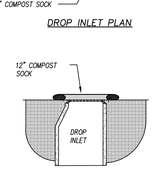
WARNING SIGN DETAIL

TEMPORARY TREE PROTECTION FENCE

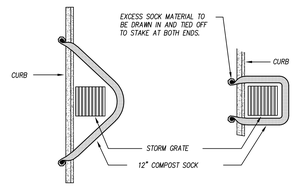
N.T.S.



DROP INLET PLAN

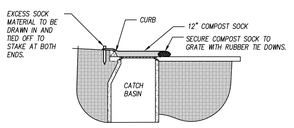


DROP INLET SECTION



CURBSIDE OPTION "A" PLAN

CURBSIDE OPTION "B" PLAN



CURBSIDE SECTION

NOTES:

1. MATERIALS TO BE FILTREXX OR APPROVED EQUAL.
2. ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
3. 2"x2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 4 FEET. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
4. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS OR SAND BAGS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
5. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.

MAINTENANCE NOTES:

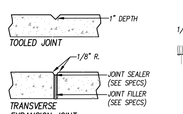
1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
2. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
3. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
5. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
6. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

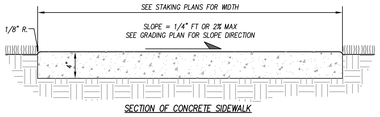
TEMPORARY COMPOST SOCK INLET PROTECTION

N.T.S.

GENERAL NOTES:

1. PROVIDE GROOVE CONTROL JOINT 1-IN DEEP WITH 1/8-IN RADII IN EDGING AT 5' INTERVALS UNLESS INDICATED OTHERWISE.
2. PROVIDE 1/2-IN WIDE EXPANSION JOINT AT 50' INTERVALS AND WHERE EDGING ABUTS ANY RIGID PAVEMENT AND/OR STRUCTURE.
3. ALL CONCRETE SHALL BE 4,000 P.S.I.
4. SURFACE SHALL RECEIVE FINE BROOM FINISH.

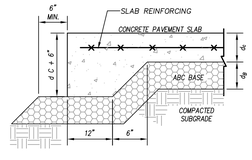




SECTION OF CONCRETE SIDEWALK

CONCRETE SIDEWALK

N.T.S.



TYPICAL THICKENED EDGE

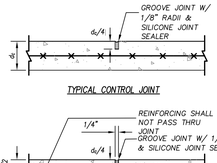
HEAVY DUTY CONCRETE PAVEMENT DIMENSIONS	
CONC SLAB THICKNESS,	d_c = 6"
ABC THICKNESS,	d_B = 4"
REINFORCEMENT	= 6x6-W2.9xW2.9

NOTES:

ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI (ASTM C39).

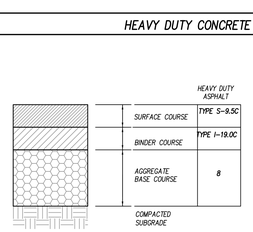
CONTRACTION JOINTS SHALL BE SPACED AT 15 FT O.C.E.W. MAX. OR AS INDICATED ON THE PLAN.

EXPANSION JOINTS SHALL BE SPACED AT 50 FT O.C.E.W. MAX. OR AS INDICATED ON THE PLAN AND WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.



HEAVY DUTY CONCRETE PAVEMENT

N.T.S.



SEE SPECIFICATIONS FOR PROOFROLLING, COMPACTION & TESTING REQUIREMENTS.

DETAIL IS FOR ON-SITE PAVING OPERATIONS ONLY.

THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.

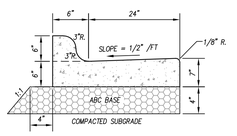
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

ASPHALT PAVEMENT

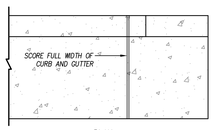
N.T.S.

CURB AND GUTTER NOTES:

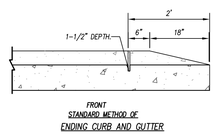
1. ALL CONCRETE SHALL BE **4,000 P.S.I. @ 28 DAYS**
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' MAX INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER.
6. SEE SPECIFICATION SECTION 32 13 13 FOR ADDITIONAL INFORMATION



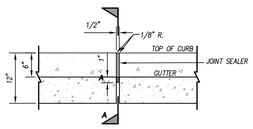
SECTION A-A
30" CURB & GUTTER



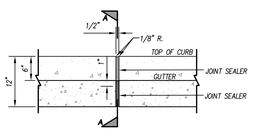
PLAN



FRONT
STANDARD METHOD OF ENDING CURB AND GUTTER



CONTRACTION JOINT



TRANSVERSE EXPANSION JOINT

CURB AND GUTTER

N.T.S.

LANDSCAPE GENERAL NOTES

1. 3-IN OF DYED BROWN DESIGNER (PALLETIZED) MULCH SHALL BE USED AS SHOWN ON THE PLANS
2. APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
3. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
4. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS. (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
5. CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
   - 5.1. REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
   - 5.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
   - 5.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
   - 5.4. ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
6. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
7. LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING LAWN/SOD AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL WATERING INFORMATION.
8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDED/SOD AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE-GRADED AND RE-SEEDED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
9. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING. IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
10. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
11. GENERAL LAWN AREAS SHALL BE SEEDED WITH **RIVIERA OR SUNSTAR BERMUDA SEED. SOD AREAS SHALL BE TIF-TUF BERMUDA.** 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. SEE PLANTING PLAN FOR LIMITS.

DATE	TYPE	SEEDING RATE
AUG 15 – APR 15	3-WAY TALL FESCUE BLEND AND CEREAL RYE (GRAIN)	10 LBS PER 1,000/SF 35 LBS/ACRE
APR 15 – AUG 15	3-WAY TALL FESCUE BLEND AND GERMAN MILLET *** OR SUDANGRASS (SMALL-STEMMED VAR.) ***	10 LBS PER 1,000/SF 25 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*** TEMPORARY – RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

LIME AND FERTILIZATION SCHEDULE:

1. APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION.
2. CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

SURFACE STABILIZATION REQUIREMENTS:

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. USE EXCELSIOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
4. APPLY 4000 LB/ACRE(2 TONS LB/AC) GRAIN STRAW OVER SEEDED AREAS AND ANCHOR STRAW CRIMPING WITH HAND OR MECHANICAL CRIMPER 8" MAX. SPACING, ASPHALT TACKING OR OTHER APPROVED METHOD. ASPHALT TACKING SHALL BE 400 GAL/ACRE (9 GAL/1000 SF).
5. MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.
6. SEE NCDEQ GROUND STABILIZATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

PERMANENT SEEDING SCHEDULE

DATE	TYPE	SEEDING RATE
APR 15 – JULY 15 **	HULLED SUNSTAR OR RIVERA BERMUDA	150 LBS/ACRE *
JULY 15 – AUG 15 (WATERING AT CONTRACTOR'S EXPENSE)	SUNSTAR OR RIVERA BERMUDA	150 LBS/ACRE *

* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.

** WHEN SEEDING MUST TAKE PLACE OUT-OF-SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

LAWN MAINTENANCE NOTES:

1. SEE SPEC. SECTION 329000 FOR LAWN MAINTENANCE REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION.
3. LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED.
4. IF NOT AT 95%, SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.
5. DO NOT ALLOW NURSE CROP TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE THE PERMANENT SEEDING MAY BE SHADED OUT.

TURF, SOD AND SEEDBED PREPARATION:

1. CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
2. DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 329000.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
6. SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSED AREAS TO BECOME EXCESSIVELY DRY.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
9. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.

LANDSCAPE NOTES

N.T.S.

MOSELEY ARCHITECTS
6210 ARDREY KELL ROAD • THE HUB AT WAVERLY, SUITE 425 • CHARLOTTE, NC 28277
PHONE (704) 540-3755 FAX (704) 540-3754
MOSELEYARCHITECTS.COM

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 1699 ZACHARY R. PIERCE

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
Client Project Number

PROJECT NO: 642088
CLH PROJECT NO: 24-160
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

DETAILS

C4.1

CLH DESIGN
CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
T: 919.319.6716
LA: C-106 PE: C-1595

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Site Area Description	Required Ground Stabilization Timeframes: Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

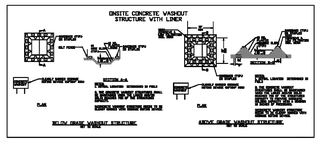
PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA *Environmental Quality*



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, Install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the Initial Installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an Inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site

and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This general permit as well as the certificate of coverage, after it is received.

(b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar Inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

(c) All data used to complete the Notice of Intent and older Inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

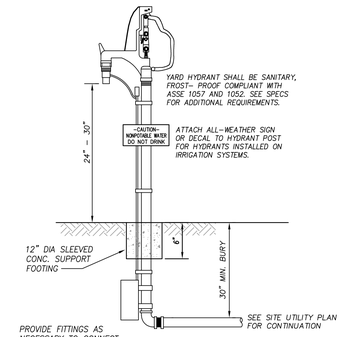
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible.*** The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. (40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

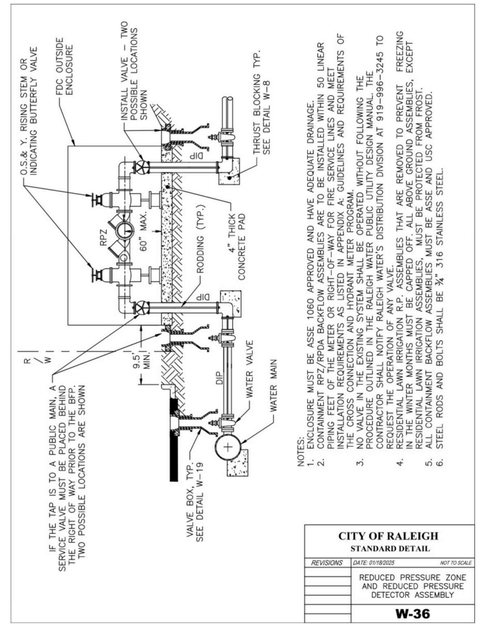
NORTH CAROLINA *Environmental Quality*

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19



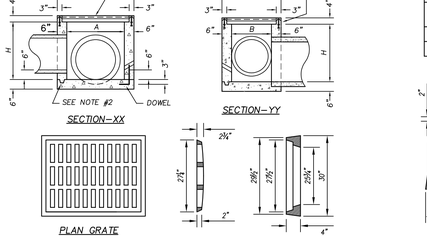
NON–FREEZE YARD HYDRANT NTS



CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 01/18/2035	NOT TO SCALE
	REDUCED PRESSURE ZONE AND REDUCED PRESSURE DETECTOR ASSEMBLY	
	W-36	

REDUCED PRESSURE ASSEMBLY IN HEATED ENCLOSURE NTS

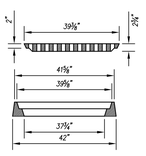


DIMENSIONS FOR DROP INLET			
DIMENSIONS OF BOX & PIPE			
PIPE	SPAN	WIDTH	HEIGHT
D	A	B	H
12"	3'–0"	2'–0"	2'–8"
15"			3'–0"
18"			3'–5"
24"			4'–0"
30"	3'–0"	2'–0"	4'–3"

DIMENSIONS FOR CHANNELS			
NO.	SIZE	LENGTH	TOTAL LIN. FT.
2	3"x4.1"	4'–0"	8'–0"
2	3"x4.1"	2'–6"	5'–0"

GENERAL NOTES:

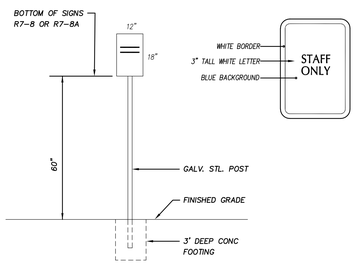
1. *CLASS "B" CONCRETE TO BE USED THROUGHOUT.*
2. *OPTIONAL CONSTRUCTION – MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTER, AS DIRECTED BY THE DESIGNER.*
3. *TWO 2" PIPE WEEP HOLES TO BE PLACED AS DIRECTED BY DESIGNER.*
4. *FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.*
5. *IF REINFORCED CONCRETE PIPE IS SET IN BASE OF BOX, ADD TO BASE AS SHOWN ON N.C.D.O.T. STANDARD 840.00.*
6. *A STONE DRAIN CONSISTING OF 1 CUBIC FOOT OF NO. 78M STONE CONTAINED IN A BAG OF POROUS FABRIC SHALL BE PLACED AT EACH WEEP HOLE.*
7. *ALL DROP INLETS OVER 3'–6" IN DEPTH TO BE PROVIDED WITH STEPS 1'–2" ON CENTERS. STEPS SHALL BE IN ACCORDANCE WITH N.C.D.O.T. STANDARD 840.66.*
8. *ADA RATED HEAVY DUTY GRATE TO BE INSTALLED PEDESTRIAN AREAS.*



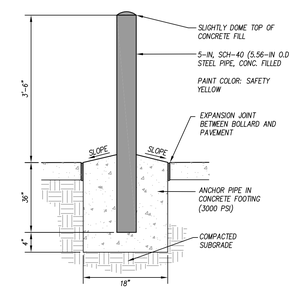


DOWEL

DROP INLET N.T.S.



SPECIAL PARKING SIGNAGE N.T.S.



STEEL BOLLARD N.T.S.

MOSELEYARCHITECTS
6210 ARDREY KELL ROAD • THE HUB AT WAVERLY, SUITE 425 • CHARLOTTE, NC 28277
PHONE (704) 540-3755 FAX (704) 540-3764
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 058231 ENGINEER Daniela A. Lovera
Digitally signed by Daniela Lovera
Date: 2025.10.13 20:42:32 -04'00'

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
Client Project Number

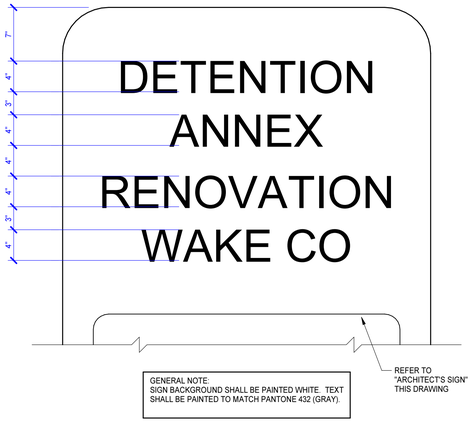
PROJECT NO: 642088
CLH PROJECT NO: 24-160
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

DETAILS

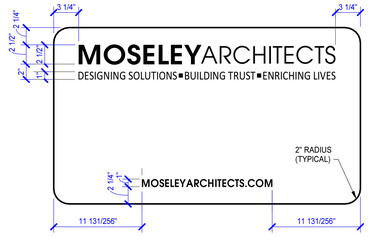
C4.2

CLH DESIGN
CLH design, p.a.
400 Regency Forest Dr.
Suite 120
Cary, NC 27518
T: 919.319.6716
LA: C-106 PE: C-1595



TEXT LAYOUT ELEVATION

1 1/2" = 1'-0"



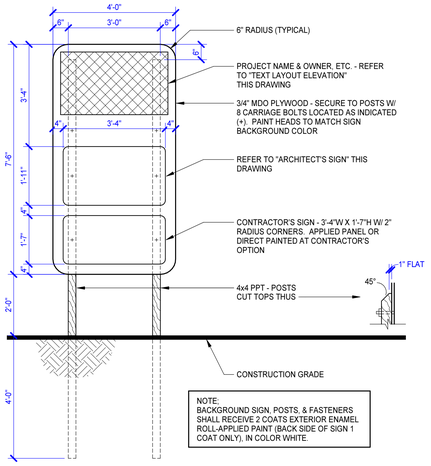
SIZE: 1'-11" VERTICAL x 3'-4" HORIZONTAL

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

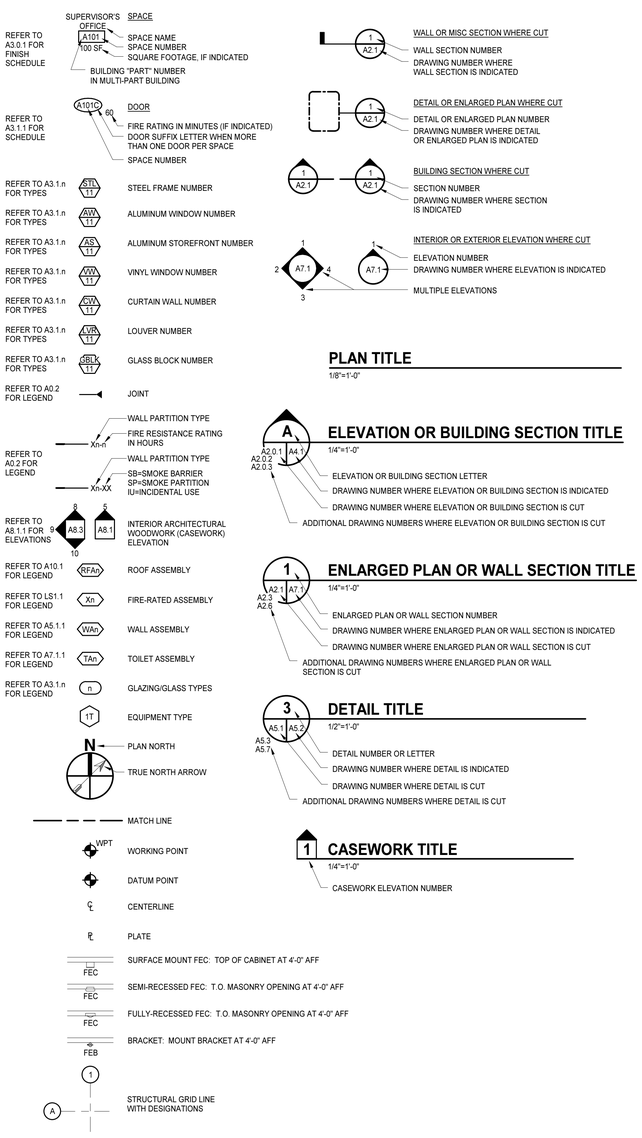
A-PT	ACCENT PAINT
ABS	AIR BARRIER SYSTEM
ABV	ABOVE
ACP	ACOUSTICAL CEILING PANEL
ACP-HDC	ACOUSTICAL CEILING PANEL - HOLD DOWN CLIPS
ACT	ACOUSTICAL CEILING TILE
ACW	ALUMINUM CLAD WINDOW
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
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
EVCT	ENHANCED VINYL COMPOSITION TILE
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
PMB	PRE-MANUFACTURED BUILDING
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
RW	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
STN	STONE
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
VIF	VERIFY IN FIELD
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

- n — KEYNOTE (1 TO 2 DIGITS)
- nnn — KEYNOTE (3 DIGITS ONLY)
- n n/n" — SIZE: THICKNESS OR OTHER DESCRIPTIVE INFORMATION

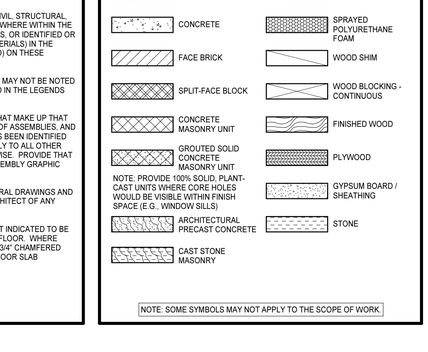
1. KEYNOTES ARE GENERALLY ASSOCIATED WITH A SERIES OF DRAWINGS (e.g., A3.2.n, A5.1.n); THEREFORE KEYNOTE NUMBERS FROM SERIES TO SERIES WILL VARY (i.e., KEYNOTE NO. 1 IN THE A3.2.n SERIES WILL BE DIFFERENT FROM KEYNOTE NO. 1 IN THE A5.1.n SERIES).

ARCHITECTURAL GRAPHIC SYMBOL LEGEND



PLAN TITLE

1/8"=1'-0"



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 (e.g., 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

- EARTH
- POROUS FILL
- CONCRETE
- FACE BRICK
- SPLIT-FACE BLOCK
- CONCRETE MASONRY UNIT
- GROUTED SOLID CONCRETE MASONRY UNIT

NOTE: PROVIDE 100% SOLID, PLANT-CAST UNITS WHERE CORE HOLES WOULD BE VISIBLE WITHIN FINISH SPACE (E.G., WINDOW SILLS)

- ARCHITECTURAL PRECAST CONCRETE
- CAST STONE MASONRY
- RIGID INSULATION
- BATT INSULATION
- SPRAYED POLYURETHANE FOAM
- WOOD SHIM
- WOOD BLOCKING - CONTINUOUS
- FINISHED WOOD
- PLYWOOD
- GYPSUM BOARD / SHEATHING
- STONE

NOTE: SOME SYMBOLS MAY NOT APPLY TO THE SCOPE OF WORK.

MOSELEYARCHITECTS
6210 ARDREY KELL ROAD • THE HUB AT WAVERLY, SUITE 425 • CHARLOTTE, NC 28277
PHONE (704) 540-3755 FAX (704) 540-3754
MOSELEYARCHITECTS.COM

10-14-2025

STEVEN J HOPKINS
REGISTERED ARCHITECT
11547
NORTH CAROLINA
CHARLOTTE, NC

MOSELEY ARCHITECTS, P.C.
REGISTERED ARCHITECTS
NC CORPORATION
50149
NORTH CAROLINA
CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

DATE	DESCRIPTION

GENERAL ARCHITECTURAL INFORMATION

A0.1

10/13/2025 10:29:06 AM

TERMINATION GENERAL NOTES

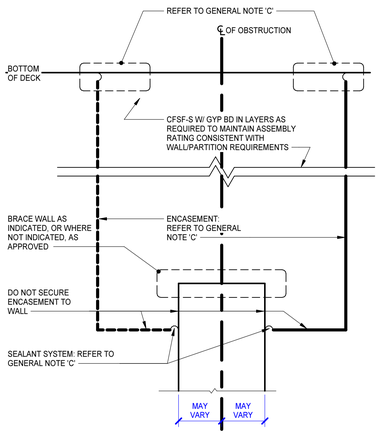
A. AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G., CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES); OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES)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

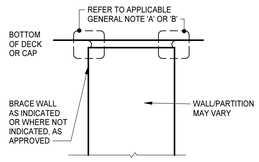
- AT FIRE-, SMOKE-, AND ACOUSTICALLY-RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
- AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
- AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
- SEAL ENCASEMENT TO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



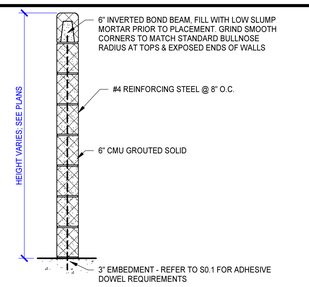
HEAD-OF-WALL TERMINATION @ OBSTRUCTION

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

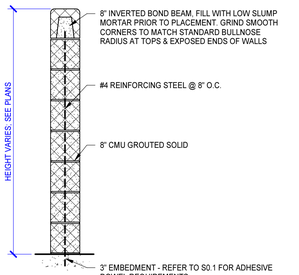


HEAD-OF-WALL TERMINATION @ NON-OBSTRUCTION

TYPICAL LOW-WALL DETAIL



LOW WALL DETAIL 6"



LOW WALL DETAIL 8"

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.

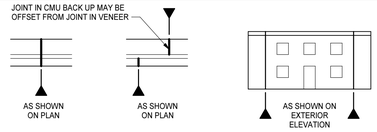
C. WALLS AND JOINT TYPES/DETAILS ARE DIAGRAMMATIC. ADJUST JOINT TYPES/DETAILS IN ACCORDANCE WITH ACTUAL FIELD CONDITIONS.

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

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

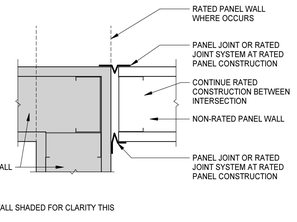
F. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL JOINT REQUIREMENTS.

EXTERIOR WALL JOINT GRAPHICS



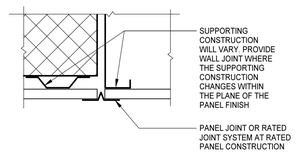
WALL JOINTS

RATED/ NON-RATED CFSF/ PANELS

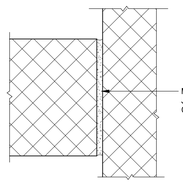


NOTE:
RATED WALL SHADED FOR CLARITY THIS DETAIL

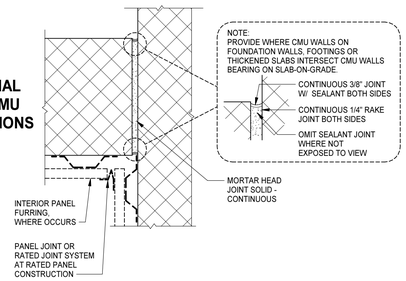
CMU/ CFSF



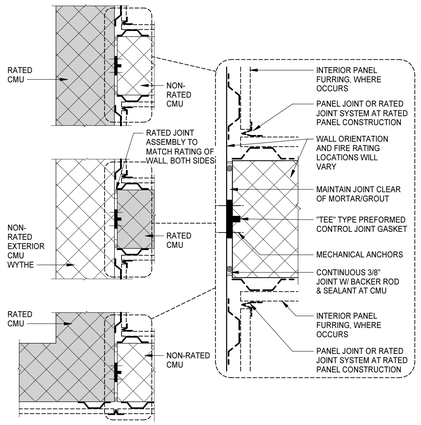
EQUAL BEARING CMU INTERSECTIONS



DIFFERENTIAL BEARING CMU INTERSECTIONS

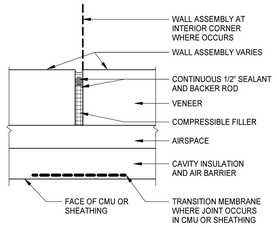


RATED/ NON-RATED CMU

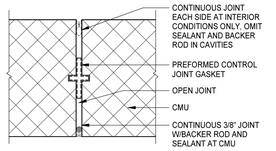


NOTE:
RATED WALLS SHADED FOR CLARITY THIS DETAIL

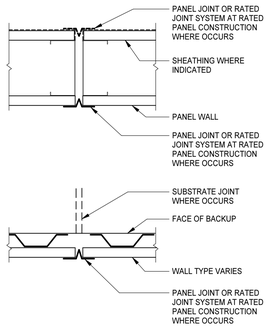
VENEER/ CAVITY



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 UNLESS INDICATED OTHERWISE.

D. ALL INTERIOR CFSF PANEL PARTITIONS: P1 UNLESS INDICATED OTHERWISE.

E. REFER TO STRUCTURAL **AND DETENTION** 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.

- 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	--	--	7 5/8" — 8" CMU
M2	--	--	5 5/8" — 6" CMU
M3	--	--	1'-2" VIF TO MATCH EXISTING — 8" CMU, 4" BRICK

PANEL WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1	--	--	4 1/4" — 3 5/8" CFSF-NS, 5/8" GYPSUM BOARD
P2	--	--	4 7/8" — 3 5/8" CFSF-NS, 5/8" GYPSUM BOARD

SECURITY WALL/PARTITION TYPES

REPRESENTED BY Xnn

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
S1	--	--	7 5/8" — 8" CMU WITH REINFORCING PER DRAWING G1.1
S1-1	1HR	UL DESIGN U905; CORRIDOR WALLS	7 5/8" — 8" CMU WITH REINFORCING PER DRAWING G1.1
S2	--	--	5 5/8" — 6" CMU WITH REINFORCING PER DRAWING G1.1

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			MATCH EXISTING — FACE BRICK, AIR SPACE, RIGID INSULATION. THICKNESS TO MATCH EXISTING., 8" CMU

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10-14-2025

STEVEN J HOPKINS — REGISTERED ARCHITECT — 11547 — NORTH CAROLINA — CHARLOTTE, NC

MOSELEY ARCHITECTS, P.C. — NORTH CAROLINA REGISTERED CORPORATION — 50149 — CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

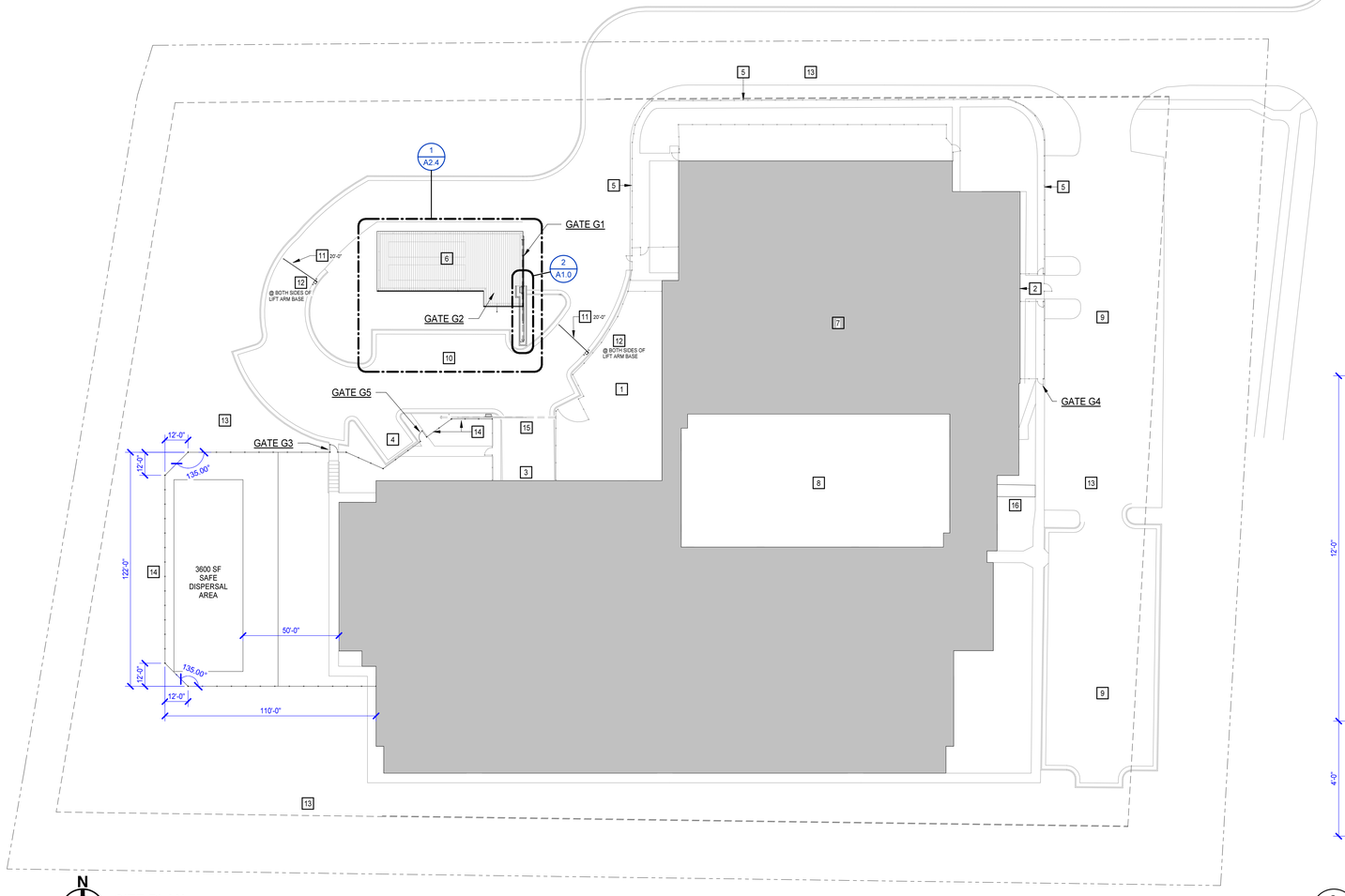
DATE	DESCRIPTION

WALL/PARTITION TYPES, WALL JOINTS AND TERMINATIONS

A0.2

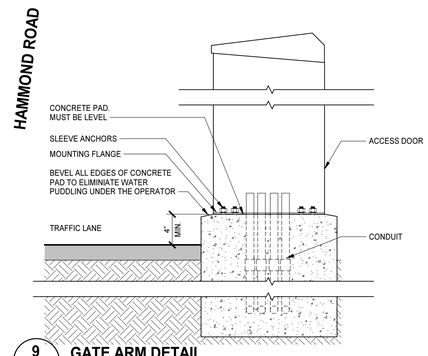
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GATE SCHEDULE						
GATE #	GATE TYPE	MATERIAL	GATE SIZE	LOCATION	HARDWARE SET	NOTES
G1	SLIDING VEHICLE GATE	GALV. CHAIN LINK	26'-0"W X 14'-0"H	STORAGE CONTAINER SHELTER		LOCAL REMOTE OPERATION w/ KEYPAD CONNECTED TO COUNTY SYSTEM
G2	SINGLE SWING GATE	GALV. CHAIN LINK	4'-0"W X 8'-0"H	STORAGE CONTAINER SHELTER	SH12	LOCAL REMOTE OPERATION w/ KEYPAD CONNECTED TO COUNTY SYSTEM
G3	SINGLE SWING GATE	GALV. CHAIN LINK	4'-0"W X 8'-0"H	SAFE DISPERSAL AREA - PLAN WEST	AH12	TIE INTO CENTRAL CONTROL
G4	ETR	ETR	ETR	PUBLIC ENTRANCE AREA		REPLACE MISSING CYLINDER TO MATCH EXISTING GATES
G5	SINGLE SWING GATE	GALV. CHAIN LINK	4'-0"W X 8'-0"H	DUMPSTER AREA	SH12	TIE INTO CENTRAL CONTROL



N

SITE PLAN
1" = 30'-0"

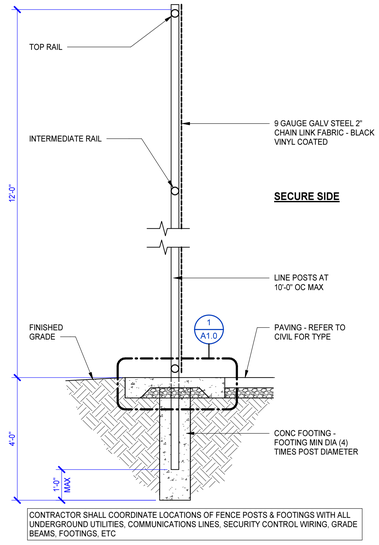


9 A1.0 GATE ARM DETAIL
1 1/2" = 1'-0"

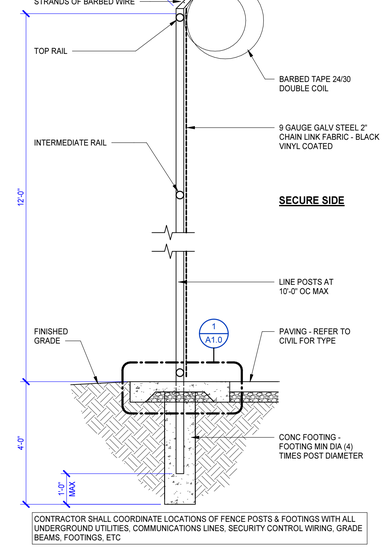
ARCHITECTURAL SITE PLAN KEYNOTES
REPRESENTED BY n

APPLIES TO DRAWINGS A1.1.1 - A1.1.nn

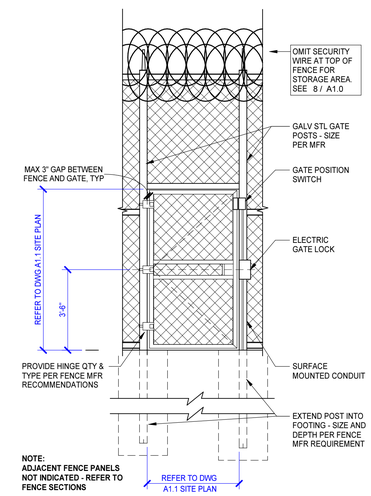
1	EXISTING MECHANICAL YARD
2	EXISTING PUBLIC ENTRANCE
3	EXISTING LOADING DOCK
4	EXISTING DUMPSTER PAD
5	EXISTING PERIMETER FENCING
6	STORAGE CONTAINER SHELTER
7	EXISTING DETENTION CENTER
8	EXISTING COURTYARD
9	EXISTING PUBLIC PARKING AREA
10	EXISTING STAFF PARKING AREA
11	LIFT ARM GATE. KNOX BOX TO BE LOCATED ADJACENT.
12	BOLLARD
13	REFER TO E1.1 ELECTRICAL SITE PLAN FOR SITE LIGHTING REQUIREMENTS
14	SECURITY FENCING - REFER TO 3/A1.1
15	EXISTING SLIDING GATE TO REMAIN
16	CONCRETE SIDEWALK. SEE CIVIL DWGS.



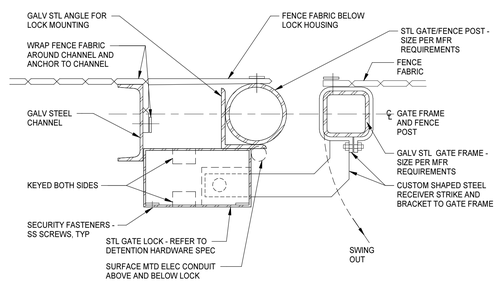
8 A2.1 A1.0 FENCE SECTION @ STORAGE CONTAINER AREA
1/2" = 1'-0"



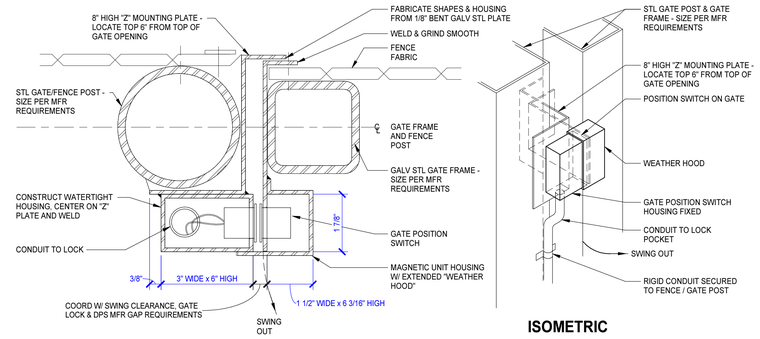
3 A1.0 SECURITY FENCE SECTION
1/2" = 1'-0"



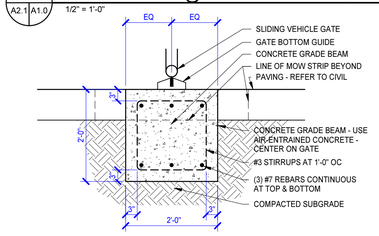
7 A1.0 ELECTRONIC PEDESTRIAN SWING GATE
3/8" = 1'-0"



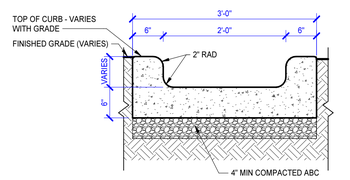
6 A1.0 ELECTRONIC PEDESTRIAN SWING GATE LOCK
3" = 1'-0"



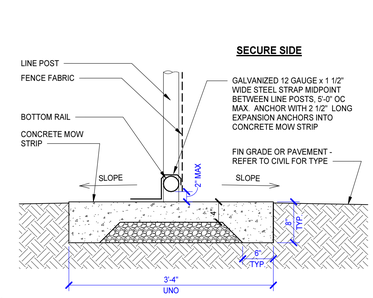
4 A1.0 GATE DOOR POSITION SWITCH
6" = 1'-0"



5 A2.1 A1.0 SLIDING GATE GRADE BEAM DETAIL
3/4" = 1'-0"



2 A1.0 A1.0 SLIDING GATE DETAIL
1" = 1'-0"



1 A1.0 A1.0 FENCE DETAIL - MOW STRIP & TIE DOWN
1" = 1'-0"

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MOSELEY ARCHITECTS, P.C. — REGISTERED ARCHITECTURAL CORPORATION — 50149 — NORTH CAROLINA — CHARLOTTE, NC

DETENTION ANNEX RENOVATION

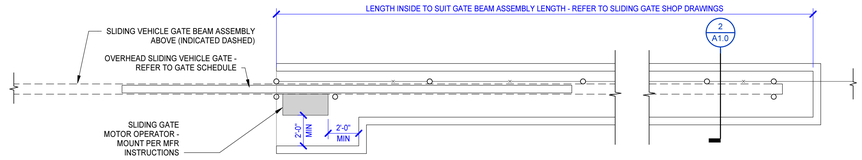
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Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088	
DATE: 10/13/2025	
REVISIONS	
DATE	DESCRIPTION

ARCHITECTURAL SITE PLAN AND DETAILS

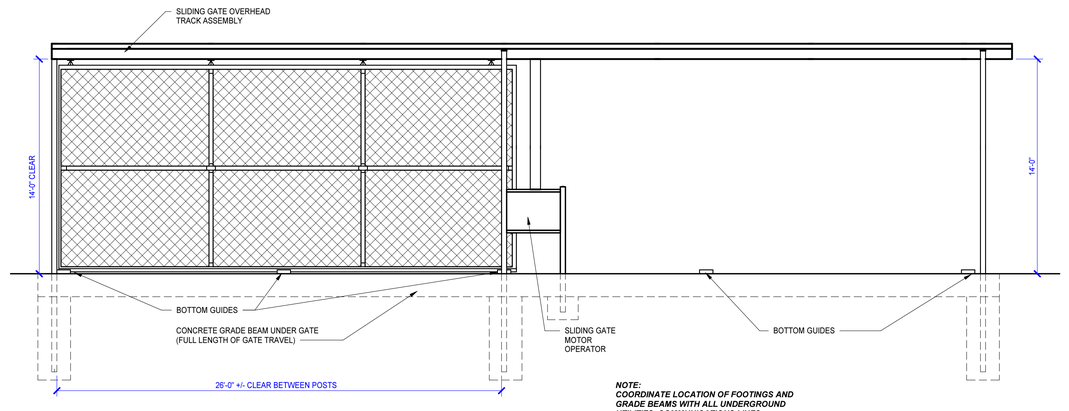
A1.0

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2 A2.1 A1.1 **SLIDING GATE TROUGH PLAN**

1/4" = 1'-0"



(VIEWED FROM INSIDE FENCE)

NOTE:
COORDINATE LOCATION OF FOOTINGS AND GRADE BEAMS WITH ALL UNDERGROUND UTILITIES, COMMUNICATIONS LINES, SECURITY CONTROL WIRING, AND OTHER BELOW GRADE CONSTRUCTION.

1 A1.1 **SLIDING VEHICLE GATE ELEVATION**

1/4" = 1'-0"

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10-14-2025

STEVEN J HOPKINS
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CHARLOTTE, NC

MOSELEY ARCHITECTS PC
REGISTERED ARCHITECTS
NEW CORPORATION
50149
NORTH CAROLINA
CHARLOTTE, NC

DETENTION ANNEX RENOVATION

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Wake County, North Carolina
J-397-SJD/DWC

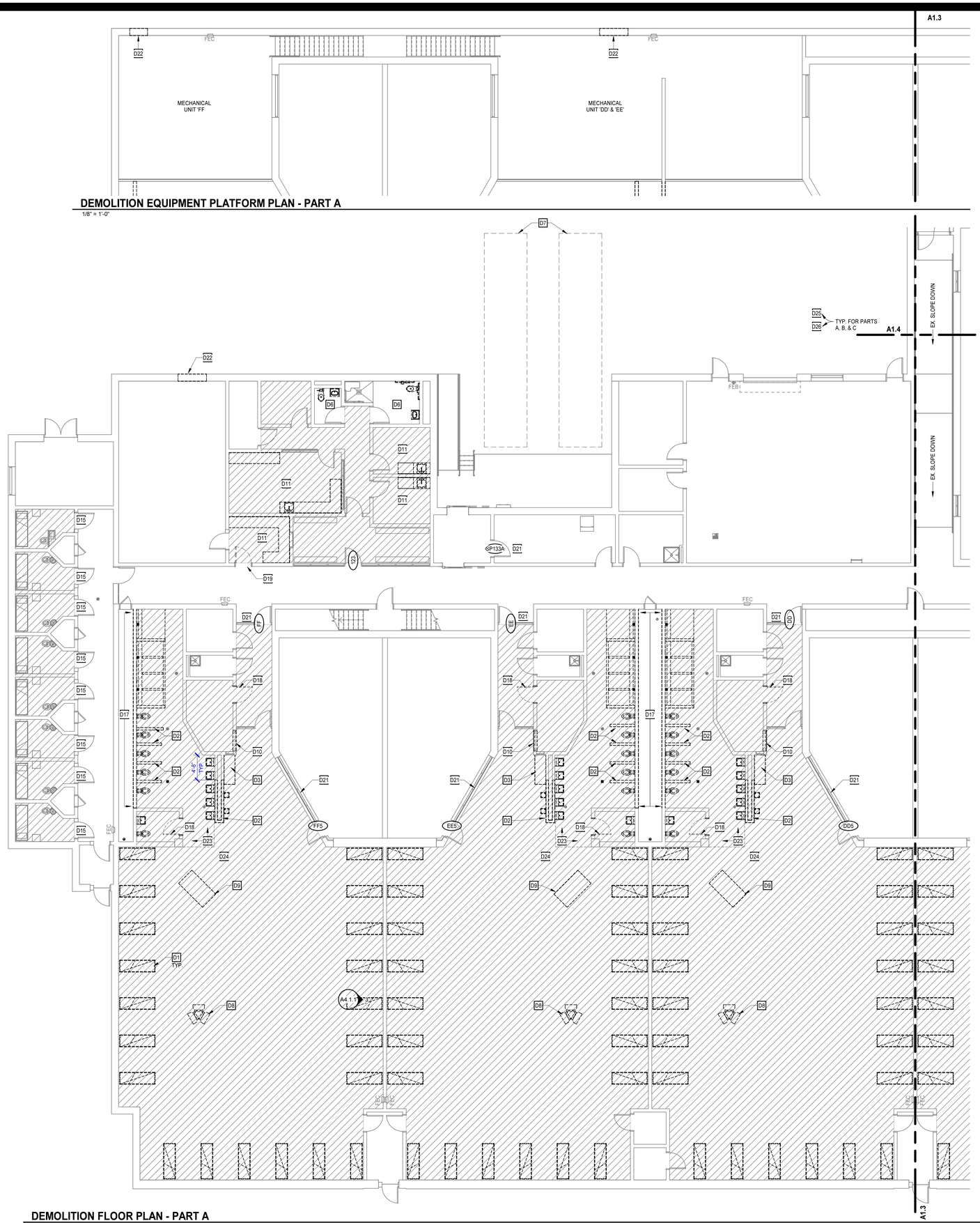
PROJECT NO: 642088
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REVISIONS	
DATE	DESCRIPTION

SITE DETAILS

A1.1

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DEMOLITION EQUIPMENT PLATFORM PLAN - PART A

1/8" = 1'-0"

DEMOLITION FLOOR PLAN - PART A

1/8" = 1'-0"

DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.2.1 - A1.2.n

- EXISTING PARTITION/ WALL/ ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING WINDOW ASSEMBLY AND FRAMING, INCLUDING ANCHORS
- REMOVE EXISTING DOOR AND FRAME ASSEMBLY INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS).
- REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- REMOVE ALL EXISTING FINISH FLOORING & BASES IN AREA.
- REMOVE EXISTING SECURITY GB CEILING.

DEMOLITION PLAN GENERAL NOTES

A. NOT ALL ITEMS ARE INDICATED ON THESE DRAWINGS. REFERENCE OTHER DICIPLINES FOR DEMOLITION ITEMS NOT INDICATED AND COORDINATE ACTIVITIES.

B. DEMOLITION WORK ON THESE DRAWINGS INVOLVES THE REMOVAL OF EXISTING CONSTRUCTION UNDER THIS CONTRACT, AND SHALL BE COORDINATED WITH CORRESPONDING RENOVATION FLOOR PLANS AND DETAILS. REMOVE EXISTING CONSTRUCTION AS INDICATED FOR FINISHED CONSTRUCTION AND PERFORM WORK TO CONFORM TO THE DETAILS.

C. NO LOAD BEARING WALLS OR STRUCTURAL COLUMNS SHALL BE REMOVED.

D. REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL AREAS OF WORK UNDERSLAB THAT MAY REQUIRE PORTIONS OF THE EXISTING SLAB TO BE REMOVED AND REPLACED. REMOVE AND REPLACE SLAB AS REQUIRED TO COMPLETE RENOVATION WORK.

E. ALL ITEMS GRAPHICALLY SHOWN AS DASHED SHALL BE REMOVED.

F. WHERE WALLS ARE INDICATED TO BE REMOVED, REMOVE ENTIRE WALL ASSEMBLY (FULL HEIGHT) INCLUDING ANY ASSOCIATED/ EMBEDDED COMPONENTS AND TOP OF WALL METAL STUD PARTITION PORTIONS, BRACING AND SUPPORTS - UNO.

G. GROUT SOLID ALL VOIDS LEFT BY REMOVED FLOOR DRAINS OR OTHER EMBEDDED ITEMS. LEVEL FLOOR TO REMOVE SLOPE WHEN SLOPE IS NOT REQUIRED BY RENOVATION WORK.

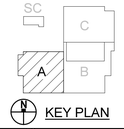
H. REMOVE EXISTING SMOKE SEALS ON ALL DOORS LOCATED IN SMOKE BARRIER WALLS.

DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.2 - A1.4

D1	SALVAGE EXISTING DETENTION FURNISHINGS. CLEAN, REPAINT AND REINSTALL WHERE SHOWN.
D2	REMOVE EXISTING CMU WALL.
D3	SALVAGE EXISTING STAINLESS STEEL COUNTER. CLEAN AND REINSTALL WHERE SHOWN.
D4	SALVAGE EXISTING DETENTION FURNISHINGS. MOVE TO OFF-SITE STORAGE AS DIRECTED BY THE OWNER.
D5	REMOVE EXISTING PLUMBING FIXTURES. CAP EXISTING SUPPLY AND DRAIN LINES.
D6	REMOVE EXISTING PLUMBING FIXTURES. PREPARE TO INSTALL REPLACEMENT FIXTURES.
D7	EXISTING STORAGE CONTAINERS TO BE RELOCATED. (NIC)
D8	SALVAGE EXISTING INMATE PHONE PEDESTAL. REINSTALL WHERE SHOWN.
D9	REMOVE EXISTING VIDEO VISITATION MILLWORK.
D10	REMOVE EXISTING DETENTION WINDOW AND WALL. CORNER MULLION TO REMAIN. PREPARE FOR INSTALLATION OF DOOR.
D11	REMOVE EXISTING MILLWORK.
D12	REMOVE EXISTING LAUNDRY EQUIPMENT.
D13	REMOVE EXISTING KITCHEN EQUIPMENT. REINSTALL THE EQUIPMENT INDICATED ON FOOD SERVICE EQUIPMENT SCHEDULE. SEE FS.02
D14	REMOVE PORTION OF EXISTING WALL. PREPARE FOR DOOR AND FRAME.
D15	REMOVE EXISTING GLAZING AND FOOD PASS AT EXISTING SHM DOOR.
D16	REMOVE EXISTING EXTERIOR WINDOW AND SECURITY SCREENS
D17	REMOVE EXISTING LOAD BEARING CMU WALL. PROVIDE TEMPORARY SHORING. SEE STRUCTURAL DWGS.
D18	REMOVE EXISTING DOOR AND FRAME.
D19	REMOVE EXISTING DOOR. EXISTING FRAME TO REMAIN.
D20	REMOVE EXISTING PACKAGE PASS. INFILL EXISTING CMU WALL.
D21	REMOVE EXISTING GLAZING AT EXISTING SHM DOOR AND FRAME.
D22	REMOVE PORTION OF CMU WALL. PREPARE TO INSTALL MECHANICAL LOUVER
D23	REMOVE EXISTING FINISHES. LEVEL FLOOR & PREPARE TO INSTALL FLUID-APPLIED FLOORING.
D24	REMOVE EXISTING FLOOR FINISHES & PREPARE FOR FINISH INDICATED ON A3.0.1
D25	REMOVE ERRANT PAINT HIDING THE EXISTING FIRE RATING LABELS ON DOORS AND FRAMES
D26	CLEAN AND PREPARE ALL DOORS AND FRAMES TO RECEIVE PAINT AS SCHEDULED
D27	PREPARE FOR DOOR REPAIR. SEE A3.1.1



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10-14-2025





DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
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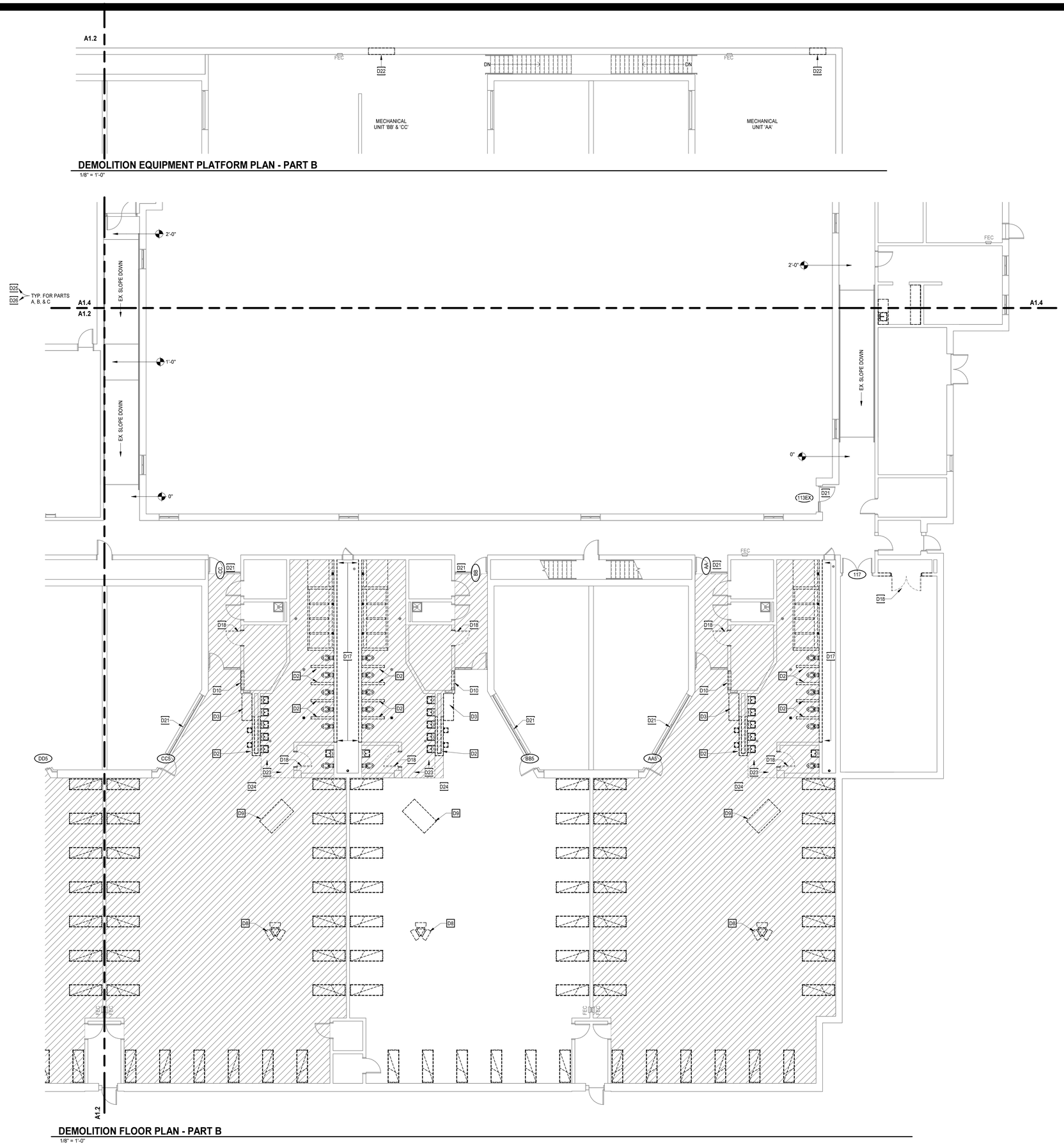
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DATE	DESCRIPTION

DEMOLITION PLAN - PART A

A1.2

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DEMOLITION EQUIPMENT PLATFORM PLAN - PART B

1/8" = 1'-0"

DEMOLITION FLOOR PLAN - PART B

1/8" = 1'-0"

DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.2.1 - A1.2.n

- EXISTING PARTITION/ WALL/ ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING WINDOW ASSEMBLY AND FRAMING, INCLUDING ANCHORS
- REMOVE EXISTING DOOR AND FRAME ASSEMBLY INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS).
- REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- REMOVE ALL EXISTING FINISH FLOORING & BASES IN AREA.
- REMOVE EXISTING SECURITY GB CEILING.

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G. GROUT SOLID ALL VOIDS LEFT BY REMOVED FLOOR DRAINS OR OTHER EMBEDDED ITEMS. LEVEL FLOOR TO REMOVE SLOPE WHEN SLOPE IS NOT REQUIRED BY RENOVATION WORK.

H. REMOVE EXISTING SMOKE SEALS ON ALL DOORS LOCATED IN SMOKE BARRIER WALLS.

DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.2 - A1.4

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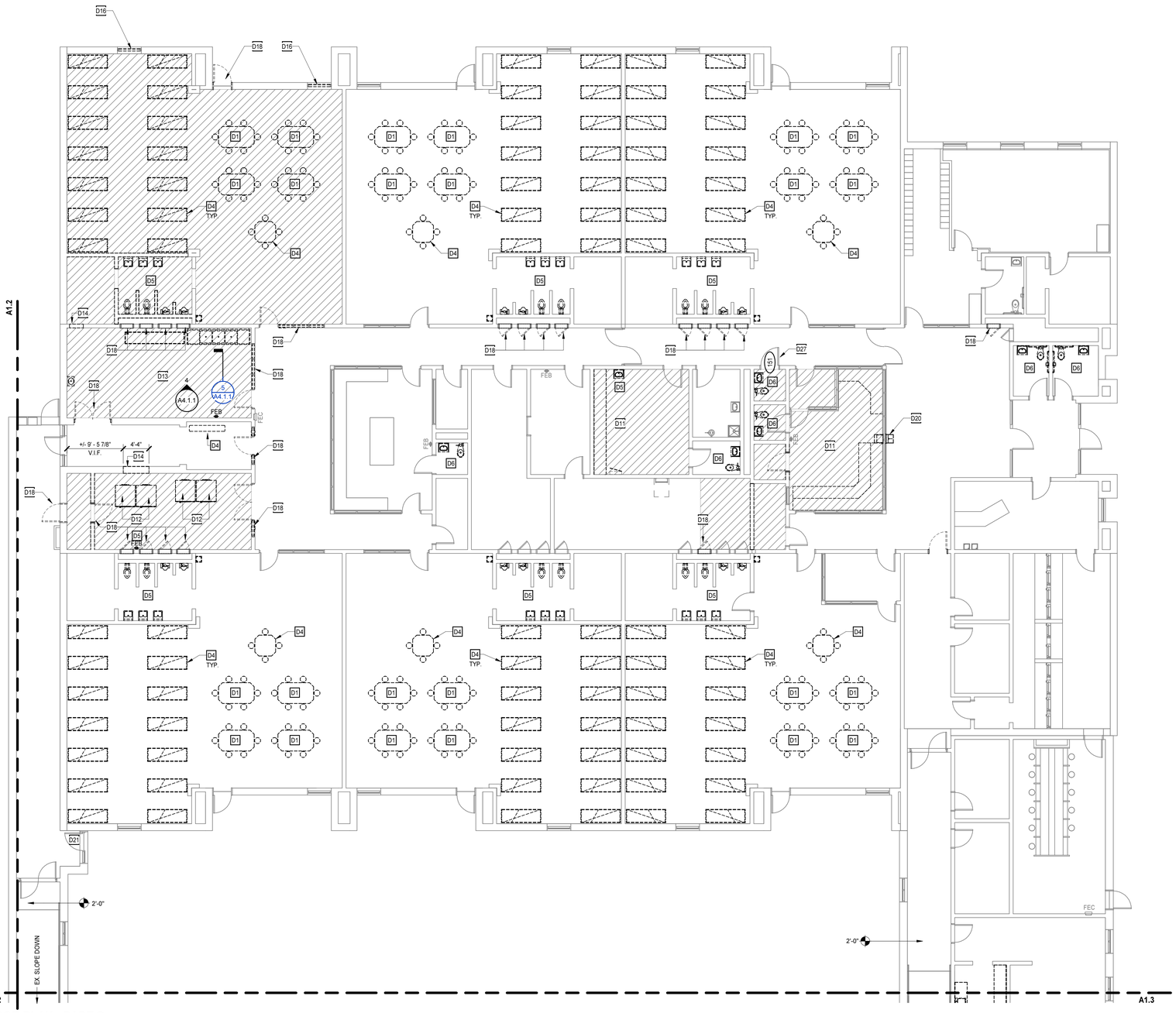
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KEY PLAN

DEMOLITION PLAN - PART B

A1.3

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DEMOLITION FLOOR PLAN - PART C

1/8" = 1'-0"

DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.2.1 - A1.2.n

- EXISTING PARTITION/ WALL/ ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING WINDOW ASSEMBLY AND FRAMING, INCLUDING ANCHORS
- REMOVE EXISTING DOOR AND FRAME ASSEMBLY INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS).
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H. REMOVE EXISTING SMOKE SEALS ON ALL DOORS LOCATED IN SMOKE BARRIER WALLS.

DEMOLITION PLAN KEYNOTES

REPRESENTED BY [n]

APPLIES TO DRAWINGS A1.2 - A1.4

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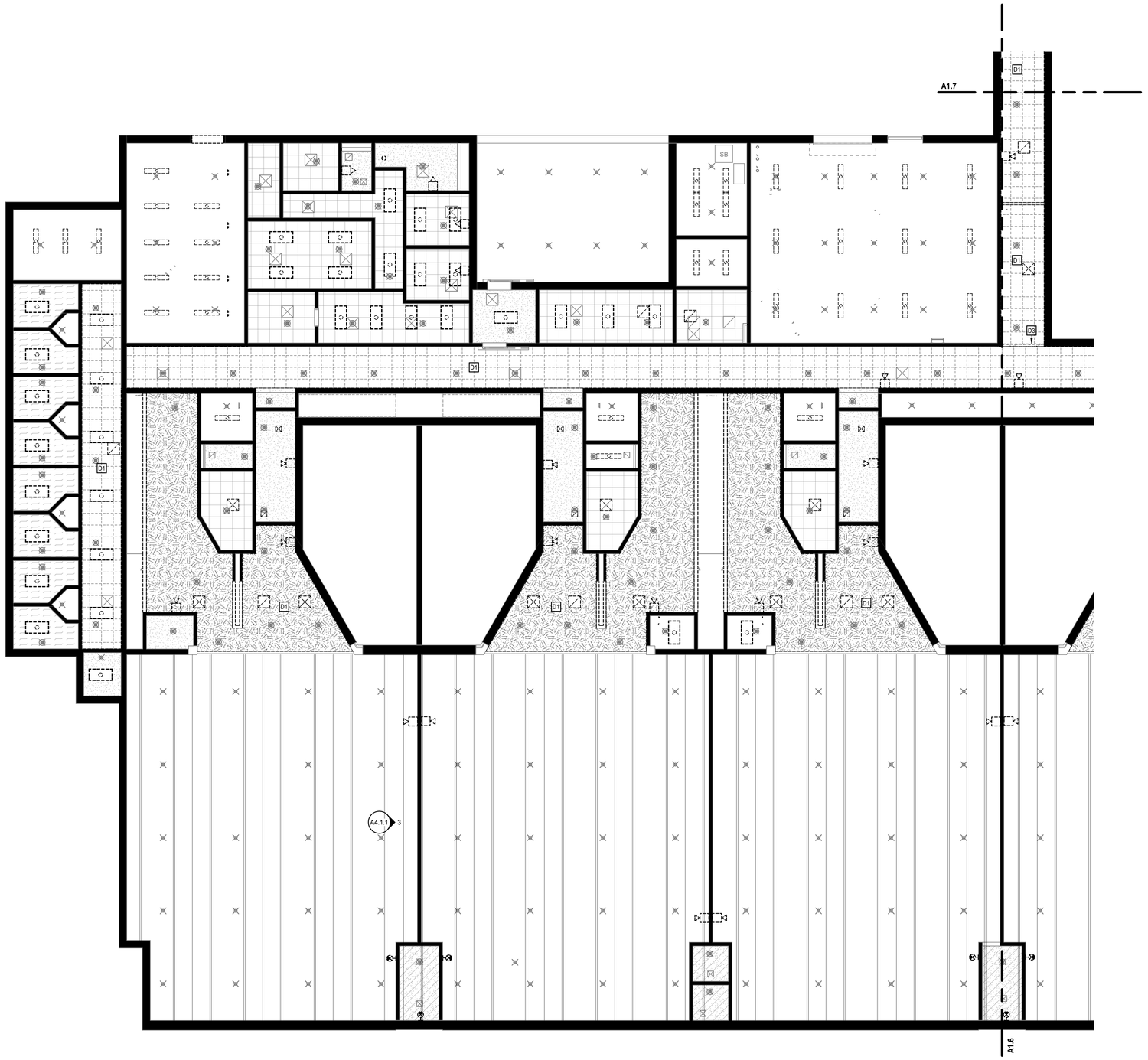
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DATE	DESCRIPTION

SC
C
A
B
KEY PLAN

DEMOLITION PLAN - PART C

A1.4

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DEMOLITION RCP - AREA A

1/8" = 1'-0"

DEMOLITION REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A1.5 - A1.7

- SECURITY CEMENT PLASTER
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 1'-0" x 1'-0" ACT ON 3/4" FRT PLYWOOD ON CFSF-S SUSPENDED FRAMING
- SECURITY GB CEILING

NOTE: EXISTING CEILINGS TO REMAIN ARE SHOWN AS GRAY

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DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.5 - A1.7

D1	REMOVE EXISTING CEILING.
D2	REMOVE EXISTING TRANSOM & PREPARE TO ATTACH BULKHEAD FOR SECURITY DOOR HEADER.
D3	REMOVE EXISTING BULKHEAD

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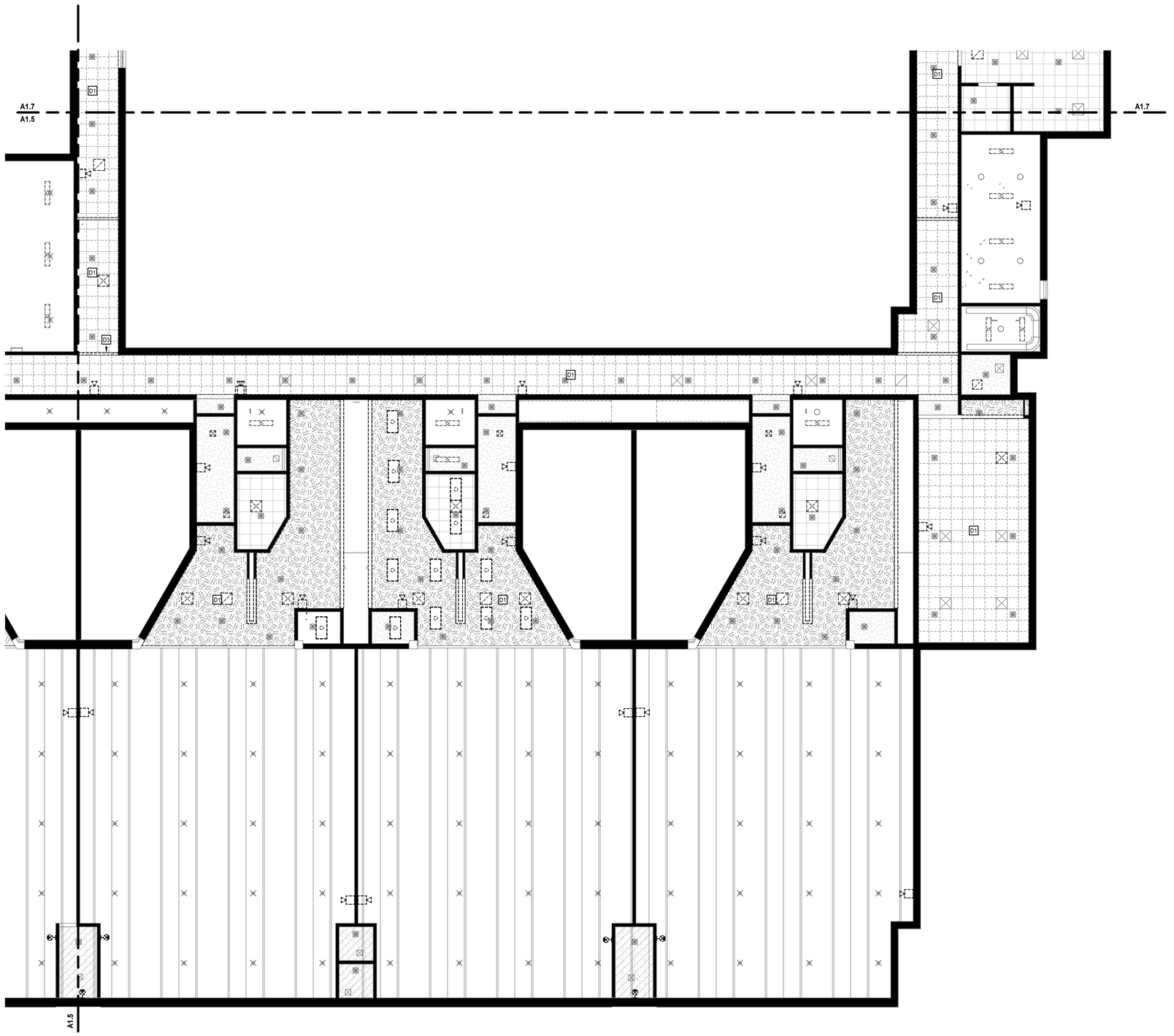
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DATE	DESCRIPTION

SC
C
A
B
KEY PLAN

DEMOLITION REFLECTED CEILING PLAN - PART A

A1.5

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DEMOLITION RCP - AREA B

1/8" = 1'-0"

DEMOLITION REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A1.5 - A1.7

- SECURITY CEMENT PLASTER
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
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DEMOLITION PLAN KEYNOTES

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APPLIES TO DRAWINGS A1.5 - A1.7

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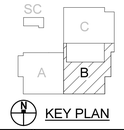
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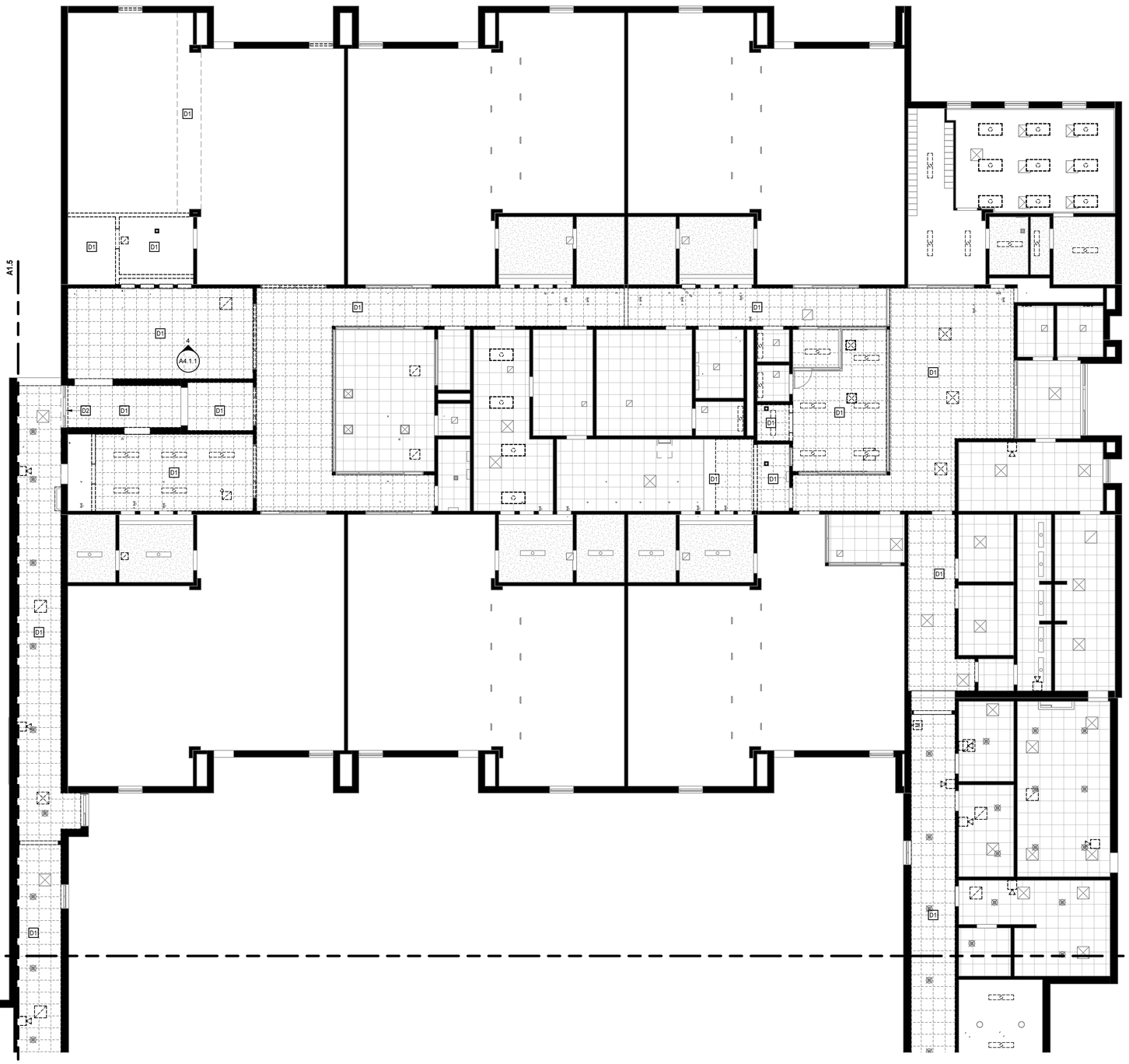
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DEMOLITION REFLECTED CEILING PLAN - PART B

A1.6

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DEMOLITION RCP - AREA C

1/8" = 1'-0"

DEMOLITION REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A1.5 - A1.7

- SECURITY CEMENT PLASTER
- 2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
- 1'-0" x 1'-0" ACT ON 3/4" FRT PLYWOOD ON CFSF-S SUSPENDED FRAMING
- SECURITY GB CEILING

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B. DEMOLITION WORK ON THESE DRAWINGS INVOLVES THE REMOVAL OF EXISTING CONSTRUCTION UNDER THIS CONTRACT, AND SHALL BE COORDINATED WITH CORRESPONDING RENOVATION FLOOR PLANS AND DETAILS. REMOVE EXISTING CONSTRUCTION AS INDICATED FOR FINISHED CONSTRUCTION AND PERFORM WORK TO CONFORM TO THE DETAILS.

C. NO LOAD BEARING WALLS OR STRUCTURAL COLUMNS SHALL BE REMOVED.

D. REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL AREAS OF WORK UNDERSLAB THAT MAY REQUIRE PORTIONS OF THE EXISTING SLAB TO BE REMOVED AND REPLACED. REMOVE AND REPLACE SLAB AS REQUIRED TO COMPLETE RENOVATION WORK.

E. ALL ITEMS GRAPHICALLY SHOWN AS DASHED SHALL BE REMOVED.

F. WHERE WALLS ARE INDICATED TO BE REMOVED, REMOVE ENTIRE WALL ASSEMBLY (FULL HEIGHT) INCLUDING ANY ASSOCIATED EMBEDDED COMPONENTS AND TOP OF WALL METAL STUD PARTITION PORTIONS, BRACING AND SUPPORTS - UNO.

G. GROUT SOLID ALL VOIDS LEFT BY REMOVED FLOOR DRAINS OR OTHER EMBEDDED ITEMS. LEVEL FLOOR TO REMOVE SLOPE WHEN SLOPE IS NOT REQUIRED BY RENOVATION WORK.

DEMOLITION PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A1.5 - A1.7

D1	REMOVE EXISTING CEILING.
D2	REMOVE EXISTING TRANSOM & PREPARE TO ATTACH BULKHEAD FOR SECURITY DOOR HEADER.
D3	REMOVE EXISTING BULKHEAD

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10-14-2025

STEVEN J HOPKINS REGISTERED ARCHITECT 11547 NORTH CAROLINA CHARLOTTE, NC

MOSELEY ARCHITECTS P.C. REGISTERED ARCHITECTURAL CORPORATION 50149 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

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DATE	DESCRIPTION

SC C A B

KEY PLAN

DEMOLITION REFLECTED CEILING PLAN - PART C

A1.7

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DETENTION ANNEX RENOVATION

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Wake County, North Carolina
J-397-SJD/DWC

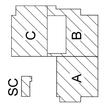
PROJECT NO: 642088
DATE: 10/13/2025

DATE	DESCRIPTION
	REVISIONS

OVERALL FLOOR PLAN

A2.0

KEY PLAN





OVERALL EQUIPMENT PLATFORM FLOOR PLAN
1/16" = 1'-0"

OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

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10-14-2025

MOSELEY ARCHITECTS PC — CORPORATE — 50149 — NORTH CAROLINA — CHARLOTTE

10/13/2025 10:29:31 AM

DETENTION EQUIPMENT SCHEDULE

NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
	PENAL COMBINATION FIXTURE			
D1	DETENTION MIRROR, SINGLE	PER DETAIL	1/A7.2.1	
D2	DETENTION MIRROR, DOUBLE	PER DETAIL	2/A7.2.1	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	
D4	GRAB BAR, ANTI-LIGATURE, 18"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	FOR SHOWER LOCATIONS, SEE TRANSFER-TYPE SHOWER ELEVATIONS
D6	RECESSED TOILET PAPER HOLDER	PER DETAIL	6/A7.2.1	
D9	DETENTION SS COUNTER, 24" DEPTH		<varies>	SALVAGED SS COUNTER TOP. INSTALL IN LOCATIONS SHOWN
D10	DETENTION STOOL, FLOOR-MOUNTED	FLOOR MOUNTED	9/A7.2.1	
D11	DETENTION SWING STOOL, WALL-MOUNTED	PER DETAIL	4/A7.2.1	INCLUDES WALL EMBED PLATE
D16	18"x36" CORNER GRAB BAR ASSEMBLY, ANTI -LIGATURE	REFER TO SHOWER ELEVATIONS		
D17	SAFETY HOOK, SINGLE	PER DETAIL	8/A7.2.1	
D18	DETENTION TABLE, 6-MAN	FLOOR MOUNTED	13/A 7.2.1 SIM	EXISTING TABLE. RE-INSTALL IN LOCATION SHOWN.
D19	DETENTION TABLE, 4-MAN	FLOOR MOUNTED	13/A 7.2.1	
D20	DETENTION TABLE, 4-MAN, ACCESSIBLE	FLOOR MOUNTED	14/A 7.2.1	
D21	DETENTION BUNK, SINGLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	
D22	DETENTION BUNK, DOUBLE, FLOOR-MOUNTED	FLOOR MOUNTED	12E/A7.2.1	EXISTING BUNK INSTALL IN NEW LOCATION SHOWN.
D24	L-SHAPED FOLDING SHOWER SEAT	1'-6" TO SEAT SURFACE		

FLOOR PLAN GENERAL NOTES

A. REMOVE PAINT FROM ALL EXISTING FIRE RATED DOOR AND FRAME LABELS.

B. ALL DOORS AND FRAMES IN RATED WALLS ARE TO BE INSPECTED AND FIELD LABELED TO CODE REQUIRED OPEN PROTECTIVE EQUIVALENT.

C. PROVIDE SMOKE SEALS ON ALL DOORS / FRAMES LOCATED IN SMOKE BARRIER WALLS.

D. ADJUST AND RE-LUBRICATE ALL EXISTING DOOR HARDWARE TO REMAIN AND RETURN TO GOOD WORKING ORDER.

E. CLEAN AND PREPARE ALL DOORS AND FRAMES TO RECEIVE NEW PAINT AS SCHEDULED.

FLOOR PLAN KEYNOTES

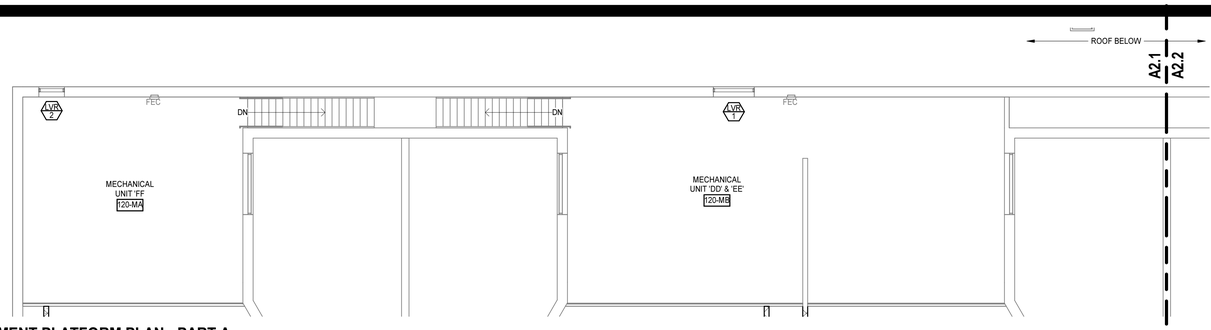
REPRESENTED BY n

APPLIES TO DRAWINGS A2.1 - A2.nn

1	SALVAGED INMATE PHONE PEDESTAL.
2	WALL-MOUNTED TELEVISION (NIC)
3	SALVAGED STAINLESS-STEEL COUNTERTOP. MOUNT AT 2'-8" AFF
4	VIDEO VISITATION STATION
5	INSTALL SECURITY GLAZING AND FOOD PASS AT SHM DOOR.
6	INSTALL SECURITY GLAZING AT SHM DOOR AND FRAME.
7	SPACES TO REMAIN UN-USED AFTER WORK HAS BEEN COMPLETED
8	WIRE MESH PARTITION WITH DOOR. PADLOCK BY OWNER
9	CLEAN ALL REC YARDS OF LEAVES AND DEBRIS. CLEAN OUT ALL CLOGGED FLOOR DRAINS AND REMOVE STANDING WATER. REPAINT EXISTING WINDOW AND DOOR FRAMES & PROVIDE SEALANT AT WINDOW PERIMETER.
10	CONTROL DESK REFER TO SPEC SECTION 125000 FURNITURE
11	INSTALL / APPLY WINDOW FILM TO DOOR AND SIDELITE GLAZING

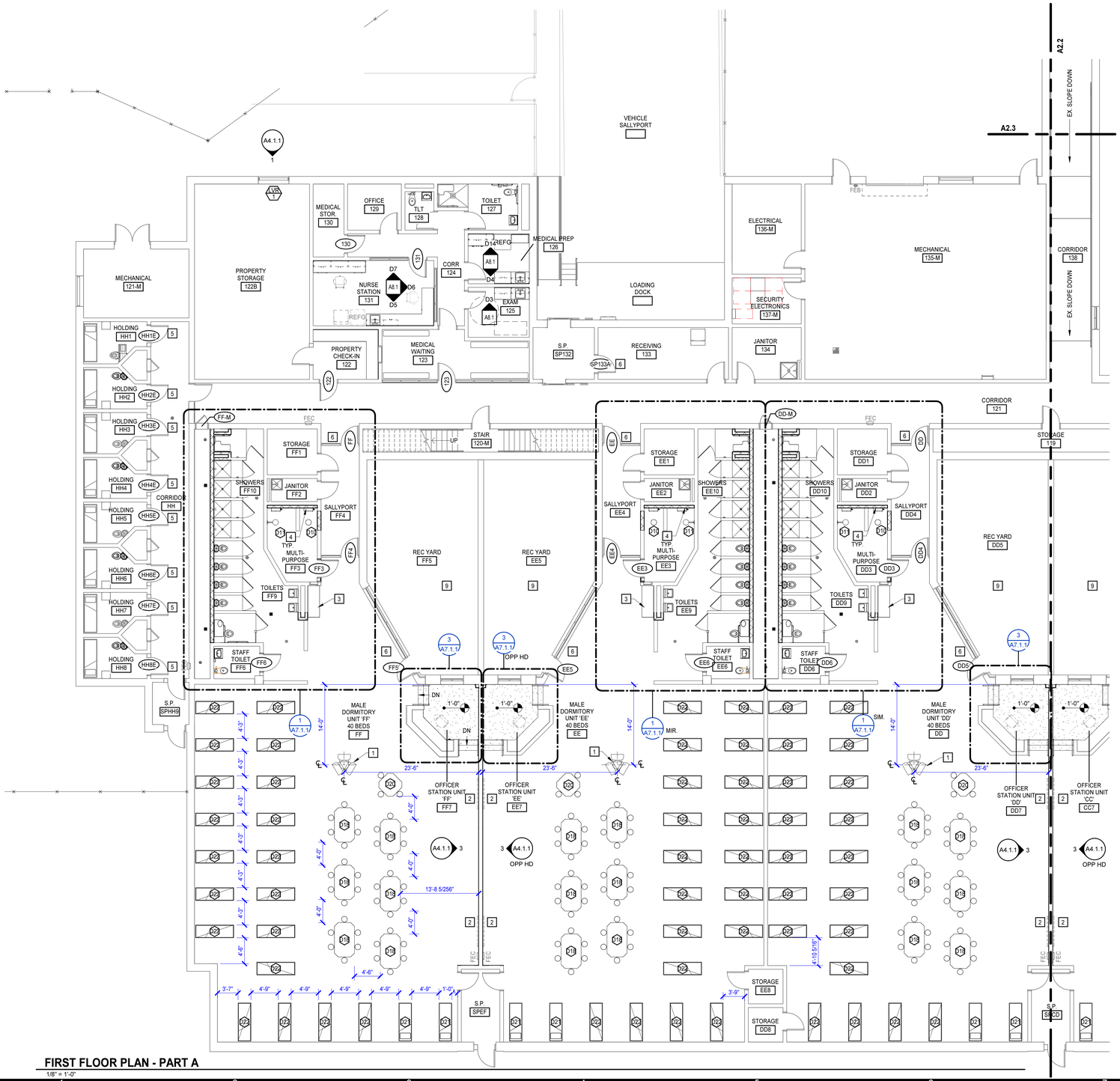
EQUIPMENT PLATFORM PLAN - PART A

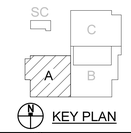
1/8" = 1'-0"



FIRST FLOOR PLAN - PART A

1/8" = 1'-0"





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Wake County, North Carolina
J-397-SJD/DWC

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FLOOR PLAN - PART A

A2.1

10/13/2025 10:29:36 AM

DETENTION EQUIPMENT SCHEDULE

NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
	PENAL COMBINATION FIXTURE			
D1	DETENTION MIRROR, SINGLE	PER DETAIL	1/A7.2.1	
D2	DETENTION MIRROR, DOUBLE	PER DETAIL	2/A7.2.1	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	
D4	GRAB BAR, ANTI-LIGATURE, 18"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	FOR SHOWER LOCATIONS, SEE TRANSFER-TYPE SHOWER ELEVATIONS
D6	RECESSED TOILET PAPER HOLDER	PER DETAIL	6/A7.2.1	
D9	DETENTION SS COUNTER, 24" DEPTH		<varies>	SALVAGED SS COUNTER TOP. INSTALL IN LOCATIONS SHOWN
D10	DETENTION STOOL, FLOOR-MOUNTED	FLOOR MOUNTED	9/A7.2.1	
D11	DETENTION SWING STOOL, WALL-MOUNTED	PER DETAIL	4/A7.2.1	INCLUDES WALL EMBED PLATE
D16	18"x36" CORNER GRAB BAR ASSEMBLY, ANTI -LIGATURE	REFER TO SHOWER ELEVATIONS		
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D18	DETENTION TABLE, 6-MAN	FLOOR MOUNTED	13/A 7.2.1 SIM	EXISTING TABLE. RE-INSTALL IN LOCATION SHOWN.
D19	DETENTION TABLE, 4-MAN	FLOOR MOUNTED	13/A 7.2.1	
D20	DETENTION TABLE, 4-MAN, ACCESSIBLE	FLOOR MOUNTED	14/A 7.2.1	
D21	DETENTION BUNK, SINGLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	
D22	DETENTION BUNK, DOUBLE, FLOOR-MOUNTED	FLOOR MOUNTED	12E/A7.2.1	EXISTING BUNK INSTALL IN NEW LOCATION SHOWN.
D24	L-SHAPED FOLDING SHOWER SEAT	1'-6" TO SEAT SURFACE		

FLOOR PLAN GENERAL NOTES

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B. ALL DOORS AND FRAMES IN RATED WALLS ARE TO BE INSPECTED AND FIELD LABELED TO CODE REQUIRED OPEN PROTECTIVE EQUIVALENT.

C. PROVIDE SMOKE SEALS ON ALL DOORS / FRAMES LOCATED IN SMOKE BARRIER WALLS.

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FLOOR PLAN KEYNOTES

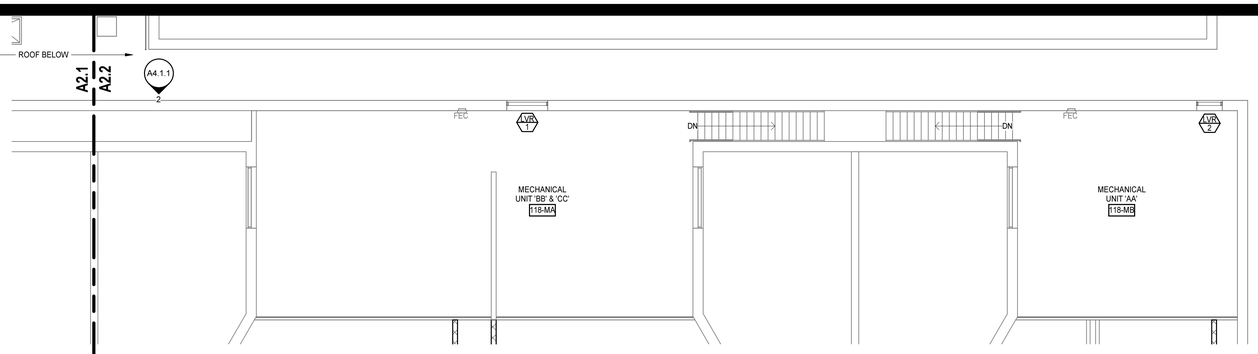
REPRESENTED BY n

APPLIES TO DRAWINGS A2.1 - A2.nn

1	SALVAGED INMATE PHONE PEDESTAL.
2	WALL-MOUNTED TELEVISION (NIC)
3	SALVAGED STAINLESS-STEEL COUNTERTOP. MOUNT AT 2'-8" AFF
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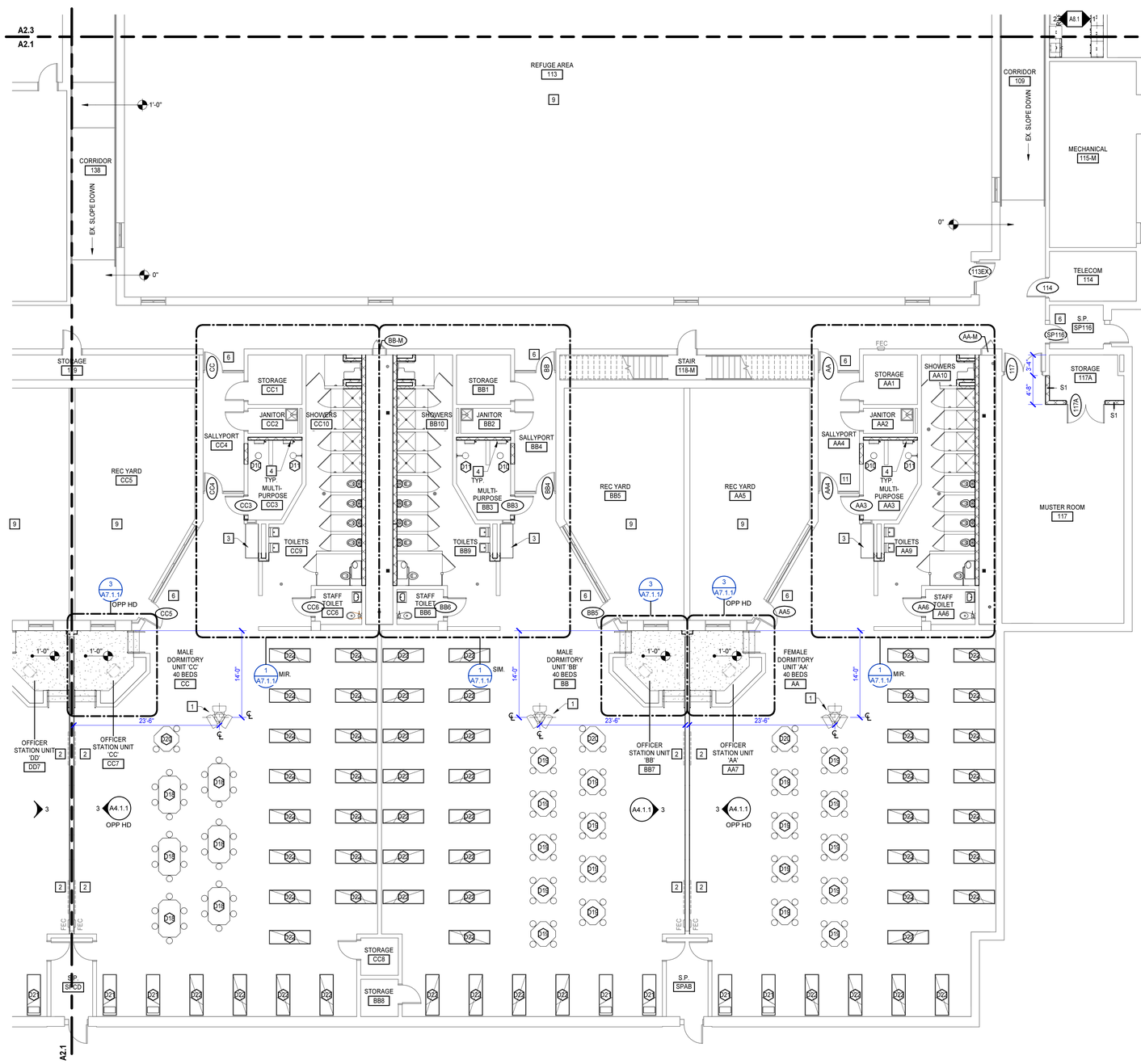
EQUIPMENT PLATFORM PLAN - PART B

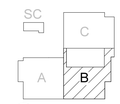
1/8" = 1'-0"



FIRST FLOOR PLAN - PART B

1/8" = 1'-0"





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FLOOR PLAN - PART B

A2.2

10/13/2025 10:29:40 AM

DETENTION EQUIPMENT SCHEDULE

NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
	PENAL COMBINATION FIXTURE			
D1	DETENTION MIRROR, SINGLE	PER DETAIL	1/A7.2.1	
D2	DETENTION MIRROR, DOUBLE	PER DETAIL	2/A7.2.1	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	
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FLOOR PLAN GENERAL NOTES

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FLOOR PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.1 - A2.nn

1	SALVAGED INMATE PHONE PEDESTAL.
2	WALL-MOUNTED TELEVISION (NIC)
3	SALVAGED STAINLESS-STEEL COUNTERTOP. MOUNT AT 2'-8" AFF
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10	CONTROL DESK REFER TO SPEC SECTION 125000 FURNITURE
11	INSTALL / APPLY WINDOW FILM TO DOOR AND SIDELITE GLAZING

FIRST FLOOR PLAN - PART C

1/8" = 1'-0"

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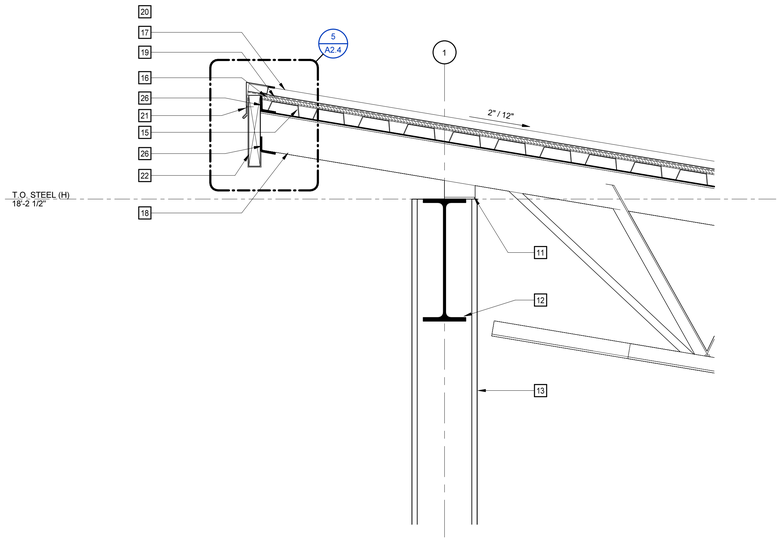
REVISIONS	
DATE	DESCRIPTION

FLOOR PLAN - PART C

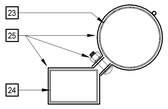
KEY PLAN

A2.3

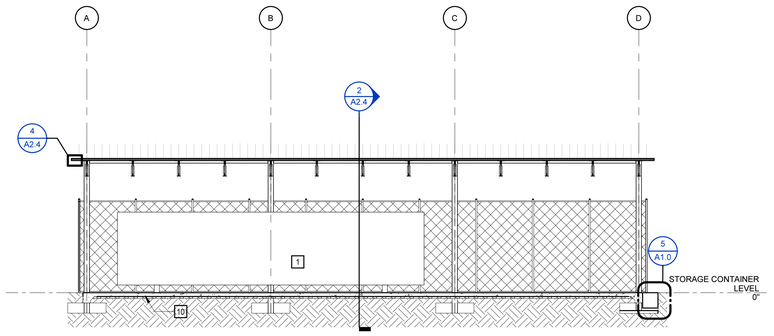
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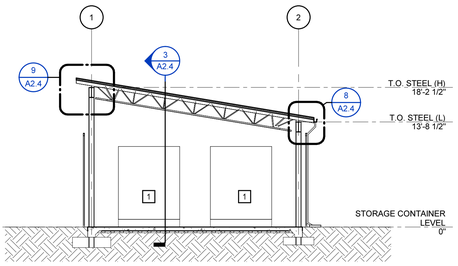
9 A2.4 A2.4 DETAIL
1 1/2" = 1'-0"



7 A2.1 A2.4 PLAN DETAIL
3" = 1'-0"

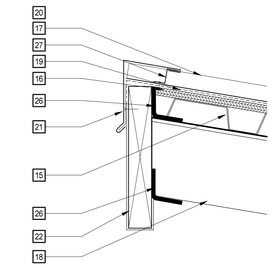


3 A2.4 A2.4 BUILDING SECTION
1/8" = 1'-0"

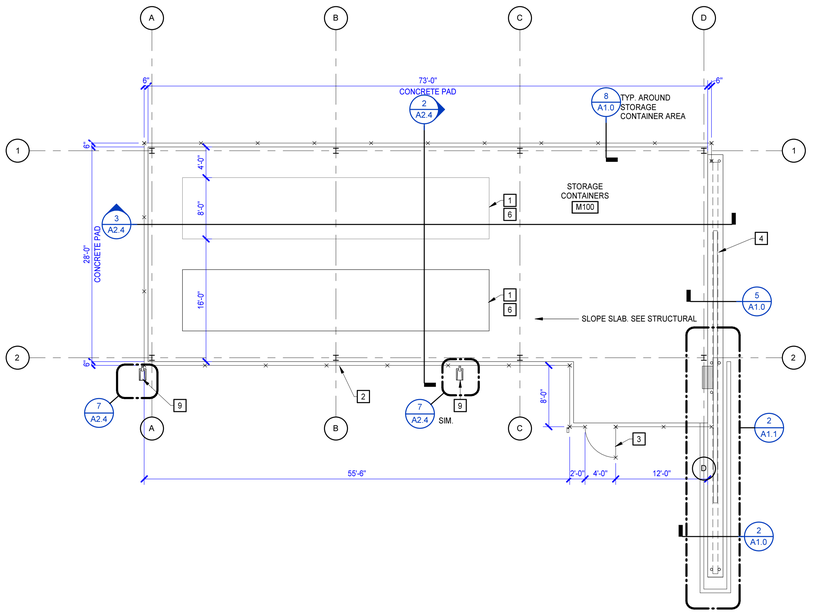


2 A2.4 A2.4 BUILDING SECTION
1/8" = 1'-0"

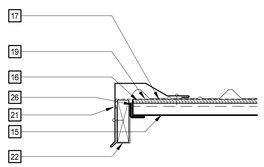
8 A2.4 A2.4 DETAIL
1 1/2" = 1'-0"



5 A2.4 A2.4 ENLARGED SECTION DETAIL
3" = 1'-0"



1 A1.0 A2.4 STORAGE CONTAINER SHELTER FLOOR PLAN
1/8" = 1'-0"



4 A2.4 A2.4 STORAGE CONTAINER SHELTER EAVE
1 1/2" = 1'-0"

STORAGE CONTAINER AREA GENERAL NOTES

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

B. RELOCATE EXISTING ON-SITE STORAGE CONTAINERS TO THE AREAS INDICATED ON PLANS. PROPERLY PHASE RELOCATION OF STORAGE CONTAINERS, INSTALLATION OF PMB, CANOPY, & FENCE.

KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A2.4

1	RELOCATED STORAGE CONTAINER. T.O. CONTAINER +/- 10'-6" VIF (NIC)
2	PERIMETER FENCE - 12'-0" H ABOVE GRADE - REFER TO STORAGE CONTAINER AREA FENCING SECTION
3	SINGLE SWING GATE AS SCHEDULED. SEE SITE PLAN
4	SLIDING VEHICLE GATE AS SCHEDULED. SEE SITE PLAN
5	NOT USED
6	BOLLARDS AT CONTAINER OPENING. SEE CIVIL DWGS.
7	5" GUTTER - PROVIDE MINIMUM 1 PERCENT SLOPE
9	GUTTER (ABOVE) & VERTICAL DOWNSPOUT W/ SPLASHBLOCK AT GROUND LEVEL
10	CONCRETE SLAB, REFER TO STRUCTURAL DWGS
11	JOIST SEAT CONNECTION
12	WIDE FLANGE BEAM - REFER TO STRUCTURAL DWGS
13	COLUMN- REFER TO STRUCTURAL DWGS
14	SNOW GUARD
15	METAL DECK - REFER TO STRUCTURAL
16	SHEATHING
17	METAL "R" PROFILE ROOFING MEMBRANE, SEE SPEC
18	JOIST PER STRUCTURAL DWGS
19	UNDERLAYMENT
20	REFERENCE ROOF MANUFACTURER'S INSTRUCTIONS & DETAILS
21	METAL PEAK / EAVE FLASHING
22	METAL FASCIA WITH HEMMED EDGE WRAPPED AROUND CONT 2X10 PPT WOOD SUB FASCIA
23	FENCE POST - DIAMETER PER DIV. 32
24	2"X3" VERTICAL LEADER / DOWNSPOUT
25	CONNECT DOWNSPOUT STRAP TO FENCE POST STRAP.
26	BENT PLATE - REFER TO STRUCTURAL DWGS
27	METAL "Z" CLOSURE

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11547
NORTH CAROLINA
CHARLOTTE, NC

MOSELEY ARCHITECTS PC
REGISTERED ARCHITECTURAL CORPORATION
50149
NORTH CAROLINA
CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

SC
C
A
B
KEY PLAN

STORAGE CONTAINERS SHELTER

A2.4

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BASIS-OF-DESIGN INTERIOR FINISH LEGEND

SPECIFICATION	DESCRIPTION	MATERIAL	MANUFACTURER	PRODUCT - COLOR
064100 ARCHITECTURAL WOODWORK AND CASEWORK				
	PLAM	PLASTIC LAMINATE	FORMICA	COLOR: TO BE DETERMINED BY ARCHITECT
	SSM	SOLID SURFACE MATERIAL	CORIAN	COLOR GROUP 2; COLOR: TO BE DETERMINED BY ARCHITECT
096513 RESILIENT BASE AND ACCESSORIES				
	RB	RUBBER BASE	JOHNSONITE	71 STORM CLOUD CG
096516 RESILIENT SHEET FLOORING				
	SV-A	SHEET VINYL - MEDICAL	ARMSTRONG	MEDINTONE WITH INTEGRAL BASE. COLOR: TO BE DETERMINED BY ARCHITECT
	SV-B	SHEET VINYL - KITCHEN	OSCODA	PROTECT-ALL; HEAT WELDED SEAMS, BASE TO MATCH. COLOR: TO BE DETERMINED BY ARCHITECT
096700 FLUID-APPLIED FLOORING				
	RES-A	RESINOUS FLOORING	SHERWIN WILLIAMS	RESULFLOR DECO QUARTZ BC23. COLOR: TO BE DETERMINED BY ARCHITECT
	RES-B	RESINOUS WALLS	DUR-A-FLEX WALLHP	COLOR: TO BE DETERMINED BY ARCHITECT
096813 TILE CARPETING				
	C-TILE	CARPET TILE	MOHAWK	SHIFTED FOCUS. COLOR: TO BE DETERMINED BY ARCHITECT
099100 PAINTING				
	PT1	PAINT - FIELD	PPG	PPG1002-1 SILVER FEATHER
	PT2	PAINT - ACCENT	PPG	PPG1002-4 GRAY MARBLE
	PT3	PAINT - TRIM	PPG	PPG1038-6 LAVA GRAY
	PT4	PAINT - CEILING	PPG	PPG1001-1 DELICATE WHITE
	PT5	PAINT - ACCENT - DORMITORY UNIT AA	PPG	PPG1121-5 GUACAMOLE
	PT6	PAINT - ACCENT - DORMITORY UNIT BB	PPG	PPG1121-7 GLOBE ARTICHOKE
	PT7	PAINT - ACCENT - DORMITORY UNIT CC	PPG	PPG1157-5 VANITY
	PT8	PAINT - ACCENT - DORMITORY UNIT DD	PPG	PPG1160-7 BLUE TANG
	PT9	PAINT - ACCENT - DORMITORY UNIT EE	PPG	PPG1207-5 LION'S MANE;
	PT10	PAINT - ACCENT - DORMITORY UNIT FF	PPG	PPG1201-5 PUMPKIN PATCH

FINISH SCHEDULE

NUMBER	NAME	FLOOR	BASE	WALLS				WAINSCOT	CEILING	NOTES
				NORTH	EAST	SOUTH	WEST			
101	WOMEN	EX	EX	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
103	MEN	EX	EX	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
104	CORR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A HDC	
105	SUPERVISOR	EX	RB	PT2	PT1	PT1	PT1		EX	
106	COUNSELOR	EX	RB	PT1	PT1	PT2	PT1		EX	
109	CORRIDOR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A HDC	
110	OFFICE	EX	RB	PT2	PT1	PT1	PT1		EX	
111	OFFICE	EX	RB	PT1	PT1	PT2	PT1		EX	
112	STAFF BREAKROOM	EX	RB	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
114	TELECOM	EX	RB	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
115-M	MECHANICAL	EX	RB	PT1	PT1	PT1	PT1		EX	
117	MUSTER ROOM	EX	RB	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A HDC	
117A	STORAGE	EX	RB	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A HDC	
121	CORRIDOR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A HDC	
122	PROPERTY CHECK-IN	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
123	MEDICAL WAITING	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
124	CORR	SV-A	SV-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
125	EXAM	SV-A	SV-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
126	MEDICAL PREP	SV-A	SV-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
127	TOILET	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
128	TLT	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
129	OFFICE	SV-A	SV-A	EPX PT1	EPX PT1	EPX PT1	EPX PT2		EX	2
130	MEDICAL STOR.	SV-A	SV-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
131	NURSE STATION	SV-A	SV-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
133	RECEIVING	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
134	JANITOR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
138	CORRIDOR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A HDC	
139	CORR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A HDC	
141	STAFF DINING	CONC-POL	RB	PT1	PT1	PT1	PT1		ACP-A	
141A	ELEC	CONC-SLR	RB	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EXPC	
144	CORRIDOR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A	
147A	STORAGE	EX	RB	EX	PT1	EX	EX		EX	
148	CORRIDOR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A	
149	CAPTAIN OFFICE	C-TILE	RB	PT1	PT1	PT1	PT2		EX	
149A	TLT	EX	EX	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
150	JAN	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
151	TLT	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
152	SALLYPORT	CONC-POL	RB	PT1	PT1	PT1	PT1		ACP-A	
153	CENTRAL CONTROL	C-TILE	RB	PT1	PT1	PT1	PT1		ACP-A	
153A	TLT	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
154	CORRIDOR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A	
155	LOBBY/ WAIT	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A	
160	SEC. ELEC.	CONC-SLR	RB	PT1	PT1	PT1	PT1		EX	
AA	FEMALE DORMITORY UNIT 'AA' 40 BEDS	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX / GB-S PT4	
AA1	STORAGE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
AA2	JANITOR	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
AA3	MULTI-PURPOSE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
AA4	SALLYPORT	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
AA6	STAFF TOILET	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
AA7	OFFICER STATION UNIT 'AA'	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
AA9	TOILETS	RES-A	RES-A	EPX PT1	RES-B	EPX PT1	EPX PT1		GB-S PT4	1, 2, 3, 4
AA10	SHOWERS	RES-A	RES-A	EPX PT1	RES-B	EPX PT1	EPX PT1		GB-S PT4	1, 2, 3, 4
BB	MALE DORMITORY UNIT 'BB' 40 BEDS	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX / GB-S PT4	5
BB1	STORAGE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
BB2	JANITOR	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
BB3	MULTI-PURPOSE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
BB4	SALLYPORT	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
BB6	STAFF TOILET	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
BB7	OFFICER STATION UNIT 'BB'	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
BB9	TOILETS	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	RES-B		GB-S PT4	1, 2, 3, 4
BB10	SHOWERS	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	RES-B		GB-S PT4	1, 2, 3, 4
CC	MALE DORMITORY UNIT 'CC' 40 BEDS	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX / GB-S PT4	
CC1	STORAGE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
CC2	JANITOR	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
CC3	MULTI-PURPOSE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
CC4	SALLYPORT	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
CC6	STAFF TOILET	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		GB PT4	2
CC7	OFFICER STATION UNIT 'CC'	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
CC9	TOILETS	RES-A	RES-A	EPX PT1	RES-B	EPX PT1	EPX PT1		GB-S PT4	1, 2, 3, 4
CC10	SHOWERS	RES-A	RES-A	EPX PT1	RES-B	EPX PT1	EPX PT1		GB-S PT4	1, 2, 3, 4
DD	MALE DORMITORY UNIT 'DD' 40 BEDS	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX / GB-S PT4	
DD1	STORAGE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
DD2	JANITOR	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
DD3	MULTI-PURPOSE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
DD4	SALLYPORT	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
DD6	STAFF TOILET	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		GB PT4	2
DD7	OFFICER STATION UNIT 'DD'	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
DD9	TOILETS	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	RES-B		GB-S PT4	1, 2, 3, 4
DD10	SHOWERS	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	RES-B		GB-S PT4	1, 2, 3, 4
EE	MALE DORMITORY UNIT 'EE' 40 BEDS	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX / GB-S PT4	
EE1	STORAGE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
EE2	JANITOR	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		GB PT4	
EE3	MULTI-PURPOSE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
EE4	SALLYPORT	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
EE6	STAFF TOILET	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		GB PT4	2
EE7	OFFICER STATION UNIT 'EE'	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
EE9	TOILETS	RES-A	RES-A	EPX PT1	RES-B	EPX PT1	EPX PT1		GB-S PT4	1, 2, 3, 4
EE10	SHOWERS	RES-A	RES-A	EPX PT1	RES-B	EPX PT1	EPX PT1		GB-S PT4	1, 2, 3, 4
FF	MALE DORMITORY UNIT 'FF' 40 BEDS	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX / GB-S PT4	
FF1	STORAGE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
FF2	JANITOR	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
FF3	MULTI-PURPOSE	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
FF4	SALLYPORT	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
FF6	STAFF TOILET	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	2
FF7	OFFICER STATION UNIT 'FF'	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
FF9	TOILETS	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	RES-B		GB-S PT4	1, 2, 3, 4
FF10	SHOWERS	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	RES-B		GB-S PT4	1, 2, 3, 4
HH	CORRIDOR	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-A HDC	
HH1	HOLDING	EX, EPX PT-3	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
HH2	HOLDING	EX, EPX PT-3	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
HH3	HOLDING	EX, EPX PT-3	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
HH4	HOLDING	EX, EPX PT-3	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
HH5	HOLDING	EX, EPX PT-3	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
HH6	HOLDING	EX, EPX PT-3	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
HH7	HOLDING	EX, EPX PT-3	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
HH8	HOLDING	EX, EPX PT-3	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
K101	KITCHEN	SV-B	SV-B	EPX PT1	EPX PT1	EPX PT1	EPX PT1		ACP-B	1, 2
K102	TOILET	SV-B	SV-B	EPX PT1	EPX PT1	EPX PT1	EPX PT1		GB PT4	2
K103	OFFICE	SV-B	SV-B	PT1	PT1	PT2	PT1		ACP-A	2
K104	JAN	RES-A	RES-A	EPX PT1	EPX PT1	EPX PT1	EPX PT1		GB PT4	2
L101	LAUNDRY	CONC-POL	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EXPC / ACP-A HDC	
SP100	SALLYPORT	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
SP116	S.P.	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
SP132	S.P.	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	
SP140	SALLYPORT	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		GB PT4	
SPHH9	S.P.	EX	EPX PT3	EPX PT1	EPX PT1	EPX PT1	EPX PT1		EX	

NOTE:

1. APPLY BLOCK FILLER TO CREATE SMOOTH FINISH.
2. INTEGRAL COVE BASE 8"H. TERMINATE AT CMU MORTAR JOINT.
3. RES-B SHALL EXTEND TO 8'-0" AFF. COVE INSIDE CORNERS.
4. REFER TO A7.1.1 FOR EXTENTS OF RES-B IN SHOWER AREAS.
5. BUFF AND REPOLISH EXISTING CONCRETE FLOOR.

FINISH SCHEDULE GENERAL NOTES

A. FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.

B. PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.

C. CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.

D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.

E. BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.

F. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION.

G. REFER TO SPECIFICATIONS FOR INFORMATION ON FINISH FIRE CLASSIFICATION RATING.

H. WHERE BASE IS INDICATED TO BE PAINTED, PAINT 8" HIGH IN COLOR DIFFERENT FROM WALL COLOR TO BE PT-3.

I. PAINT IN PLACE EXISTING DAYROOM ACOUSTICAL WALL PANELS, COLORS NOTED ON INTERIOR ELEVATION.

J. INTERIOR STEEL FRAMES SHALL BE PAINTED PT3, UNLESS OTHERWISE NOTED.

K. WHEN THE PRODUCT'S COLOR NAME AND NUMBER ARE PROVIDED IN THE INTERIOR FINISH LEGEND, BOTH SHALL BE USED IN COORDINATING THE MATERIAL ORDERS. SHOULD THERE BE A CONFLICT BETWEEN A PRODUCT'S COLOR NAME AND NUMBER, CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.

MOSELEYARCHITECTS
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10-14-2025

STEVEN J HOPKINS REGISTERED ARCHITECT 11547 NORTH CAROLINA CHARLOTTE, NC

MOSELEY ARCHITECTS PROFESSIONAL CORPORATION 50149 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

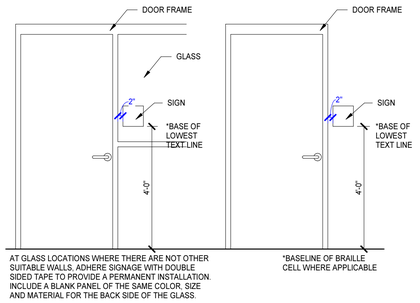
DATE	DESCRIPTION

FINISH SCHEDULE

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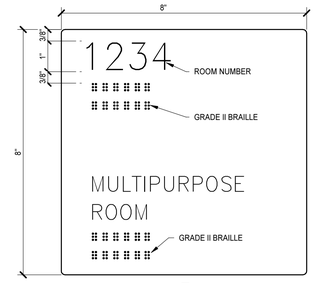
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SIGNAGE TYPES/ELEVATIONS



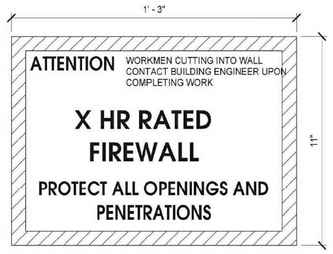
AT GLASS LOCATIONS WHERE THERE ARE NOT OTHER SUITABLE WALLS, ADHERE SIGNAGE WITH DOUBLE SIDED TAPE TO PROVIDE A PERMANENT INSTALLATION. INCLUDE A BLANK PANEL OF THE SAME COLOR, SIZE AND MATERIAL FOR THE BACK SIDE OF THE GLASS.

*BASELINE OF BRAILLE CELL WHERE APPLICABLE



E

2 SIGN MOUNTING ELEVATIONS
A3.1.1 1/2" = 1'-0"



1. FIRE RATED WALLS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN A MANNER ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH IDENTIFICATION SHALL BE ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES.

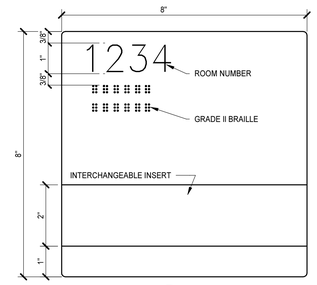
2. SIGNS SHALL BE STENCILED DIRECTLY TO WALL OR SHALL BE DURABLE METAL OR PLASTIC AND FASTENED MECHANICALLY TO WALL.

3. SIGNS SHALL BE STENCILED OR HUNG ALONG BOTH SIDES OF ALL FIRE RATED AND/OR SMOKE WALLS EVERY 12 LINEAR FEET O.C. THEY SHALL BE WORDED AS ILLUSTRATED.

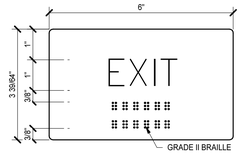
1 FIREWALL SIGNAGE
A3.1.1 1 1/2" = 1'-0"

STENCILING LETTERS AT ALL CELL DOORS

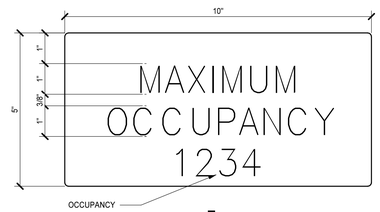
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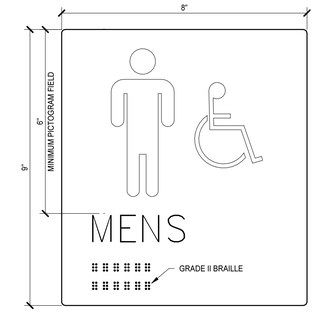
D



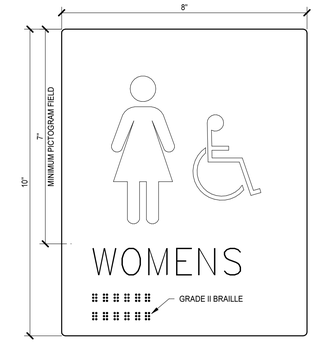
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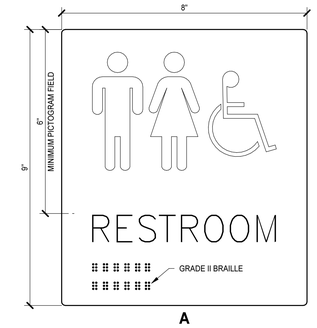
F



C



B



A

SIGNAGE GENERAL NOTES

A. INTERIOR AND EXTERIOR PANEL SIGNAGE IS PROVIDED BY ALLOWANCE. REFER TO SPECIFICATION SECTION 012100 - ALLOWANCES AND SPECIFICATION SECTION 101400 - SIGNAGE. DIMENSIONAL CHARACTERS ARE NOT INCLUDED IN THE ALLOWANCE.

B. ALL FINAL ROOM NAMES AND NUMBERS SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO SIGN PRODUCTION.

C. PROVIDE STENCILED NUMBERS AT CELL DOORS PER SIGNAGE TYPE "H".

D. SIGNAGE IN DETENTION AREAS, AS DEFINED BY DRAWING G1.1, TO BE BOTH ADHERED AND MECHANICALLY FASTENED TO SUBSTRATE. SIGNAGE IN NON-DETENTION AREAS SHALL BE ADHERED ONLY.

E. ALL SPACES/ROOMS IN FACILITY SHALL BE IDENTIFIED WITH SIGNAGE, BOTH INTERIOR AND EXTERIOR. SIGNAGE VENDOR WILL COORDINATE WITH OWNER AND ARCHITECT TO DEVELOP A SIGNAGE SCHEDULE FOR THE FACILITY WITHIN THE ALLOCATED ALLOWANCE AS INDICATED IN SPECIFICATION SECTION 012100.

F. ALL SIGNAGE SHALL CONFORM TO ANSI/ICC A117.1 CURRENT EDITION.

G. ALL DETENTION DOORS SHALL HAVE STENCILED NUMBERS AT DOOR HEAD. CELL DOORS ARE COVERED PER SIGN TYPE "H".

H. AT CMU WALLS, PROVIDE BLOCK FILLER BEHIND STENCILED LETTERS AND NUMBERS TO CREATE A SMOOTH SURFACE.

I. FONT FOR STENCILED LETTERS AND NUMBERS TO BE HELVETICA CONDENSED BOLD.

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10-14-2025

STEVEN J HOPKINS REGISTERED ARCHITECT 11547 NORTH CAROLINA CHARLOTTE, NC

MOSELEY ARCHITECTS P.C. REGISTERED ARCHITECTS REGISTERED CORPORATION 50149 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

DATE	DESCRIPTION

INTERIOR-EXTERIOR SIGNAGE

A3.1.1

10/13/2025 10:29:52 AM

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	HDWR	FIRE RATING	NOTES
104	DN	3'-0" x 7'-0" x 2"	STL	--	--	1	STL	1		ETR	ETR	ETR	ETR	13.0	--	2
117A	F	PR 3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		3	3	3	--	2.0	--	1
122	F	3'-0" x 7'-0" x 1 3/4"	STL	--		--	ETR	1		ETR	ETR	ETR	ETR	6.0	45 MIN	2
141	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	2		1	1	1	--	7.0	20 MIN	
141-AC	F	2'-0" x 6'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	8.0		
141A	F	4'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	1.0	20 MIN	
178	F	2'-0" x 5'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	8.0	20 MIN	
179	F	2'-0" x 5'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	8.0	20 MIN	
AA3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	7.0	--	
AA6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	4.0	--	
BB3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	7.0	--	
BB6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	4.0	--	
CC3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	7.0	--	
CC6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	4.0	--	
DD3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	7.0	--	
DD6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	4.0	--	
EE3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	7.0	--	
EE6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	4.0	--	
FF3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	7.0	--	
FF6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	4.0	--	
K102	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	3.0		
K103	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	--	STL	2		1	1	1	--	5.0	--	
K104	F	3'-0" x 7'-0" x 1 3/4"	STL	--	3/4"	--	STL	1		1	1	1	--			
L103	F	2'-0" x 5'-0" x 1 3/4"	STL	--	--	--	STL	1		1	1	1	--	8.0	20 MIN	

NOTE:

1. PANIC HARDWARE
2. EXISTING FRAMES TO REMAIN

EXISTING DOOR REPAIR SCHEDULE

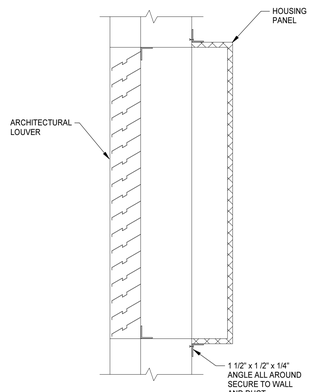
NUMBER	DOOR TYPE	DOOR MATL	DOOR GLAZING TYPE	FRAME TYPE	FRAME NUMBER	FRAME SECTIONS	FRAME HEAD DETAIL	FRAME JAMB DETAIL	FRAME JAMB DETAIL	FRAME SILL DETAIL	FRAME GLAZING	HDWR	FIRE RATING	NOTES
107	C2	ETR	--	ETR	1		ETR	ETR	ETR	ETR	--	12.0	20 MIN	10
112	N2	ETR	2	ETR	1		ETR	ETR	ETR	ETR	--	12.0	1/3 HR	10
113EX	C2	ETR	2	ETR	7		ETR	ETR	ETR	ETR	2	12.0	--	10
114	F	ETR	--	ETR	ETR		ETR	ETR	ETR	ETR	--		1/3 HR	15
117	F	ETR	--	ETR	1		ETR	ETR	ETR	ETR	--	9.0	20 MIN	14
123	G	ETR	2	ETR	4		ETR	ETR	ETR	ETR	2	12.0	20 MIN	10
130	F	ETR	--	ETR	ETR		ETR	ETR	ETR	ETR	--	10.0	--	15
131	G	ETR	ETR	ETR	ETR		ETR	ETR	ETR	ETR	ETR	10.0	--	15
151	F	ETR	--	ETR	1		ETR	ETR	ETR	ETR	--	3.0	--	15
AA	C2	ETR	2	ETR	8		ETR	ETR	ETR	ETR	2	12.0	20 MIN	12
AA4	C2	ETR	1	ETR	8		ETR	ETR	ETR	ETR	1	12.0	--	16
AA5	C2	ETR	3	ETR	6		ETR	ETR	ETR	ETR	3	12.0	--	11
AA-M	F	ETR	--	ETR	1		ETR	ETR	ETR	ETR	--	11.0	--	13
BB	C2	ETR	2	ETR	9		ETR	ETR	ETR	ETR	2	12.0	20 MIN	12
BB4	C2	ETR	1	ETR	9		ETR	ETR	ETR	ETR	1	12.0	--	12
BB5	C2	ETR	3	ETR	5		ETR	ETR	ETR	ETR	3	12.0	--	11
BB-M	F	ETR	--	ETR	1		ETR	ETR	ETR	ETR	--	11.0	--	13
CC	C2	ETR	2	ETR	8		ETR	ETR	ETR	ETR	2	12.0	20 MIN	12
CC4	C2	ETR	1	ETR	8		ETR	ETR	ETR	ETR	1	12.0	--	12
CC5	C2	ETR	3	ETR	6		ETR	ETR	ETR	ETR	3	12.0	--	11
DD	C2	ETR	2	ETR	9		ETR	ETR	ETR	ETR	2	12.0	20 MIN	12
DD4	C2	ETR	1	ETR	9		ETR	ETR	ETR	ETR	1	12.0	--	12
DD5	C2	ETR	3	ETR	5		ETR	ETR	ETR	ETR	3	12.0	--	11
DD-M	F	ETR	--	ETR	1		ETR	ETR	ETR	ETR	--	11.0	--	13
EE	C2	ETR	2	ETR	8		ETR	ETR	ETR	ETR	2	12.0	20 MIN	12
EE4	C2	ETR	1	ETR	8		ETR	ETR	ETR	ETR	1	12.0	--	12
EE5	C2	ETR	3	ETR	6		ETR	ETR	ETR	ETR	3	12.0	--	11
FF	C2	ETR	2	ETR	9		ETR	ETR	ETR	ETR	2	12.0	20 MIN	12
FF4	C2	ETR	1	ETR	9		ETR	ETR	ETR	ETR	1	12.0	--	12
FF5	C2	ETR	3	ETR	5		ETR	ETR	ETR	ETR	3	12.0	--	11
FF-M	F	ETR	--	ETR	1		ETR	ETR	ETR	ETR	--	11.0	--	13

NOTE:

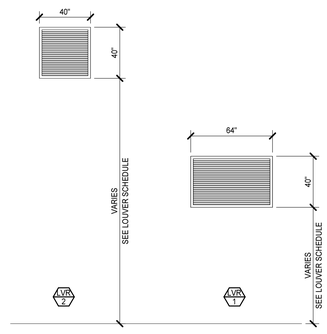
10. PROVIDE GLAZING IN EXISTING DOOR AND FRAME
11. EXISTING DOOR TO REMAIN. REPLACE GLAZING. RE-CAULK & REPAINT EXTERIOR
12. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING WITH SECURITY GLAZING
13. PROVIDE CLOSER PER HARDWARE SCHEDULE
14. EXISTING DOOR TO REMAIN PROVIDE CLOSER AND COORDINATOR. PANIC HARDWARE PER HARDWARE SCHEDULE
15. EXISTING DOOR TO REMAIN. PROVIDE LOCKSET PER HARDWARE SCHEDULE
16. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING WITH SECURITY GLAZING AND APPLY PRIVACY FILM
17. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING AND EXISTING FOOD PASS

LOUVER SCHEDULE

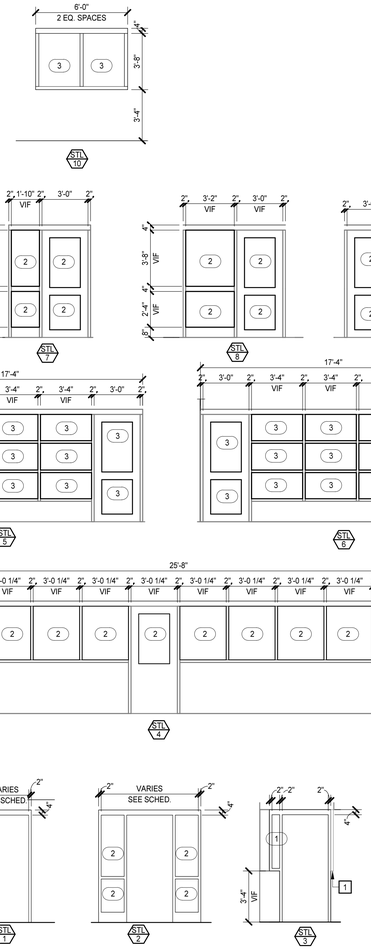
MARK	LEVEL	ELEVATION FROM LEVEL TO SILL	SIZE
1	LEVEL 1	8'-0"	64"x40"
1	EQUIPMENT PLATFORM	4'-6"	64"x40"
2	EQUIPMENT PLATFORM	4'-6"	40"x40"



4 A3.2.1 **WALL LOUVER DETAIL** 1" = 1'-0"



LOUVER TYPES



STEEL FRAME TYPES

GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.2.1

B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G., SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

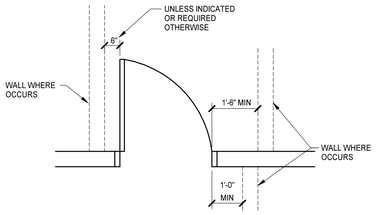
D. INSTALL LABELS ON ALL FIRE-RATED DOORS AND FRAMES WHERE MISSING

E. INSTALL SMOKE SEALS ON ALL DOOR FRAMES LOCATED WITHIN SMOKE BARRIERS. SEE ALSO SHEET LS1.1

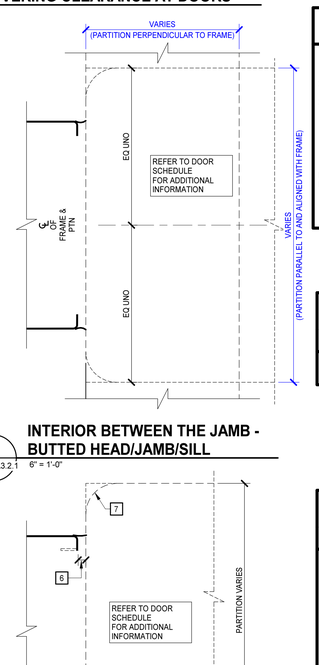
F. ADJUST AND RE-LUBRICATE ALL EXISTING DOOR HARDWARE TO REMAIN

G. REMOVE ERRANT PAINT HIDING THE EXISTING FIRE RATING LABELS ON DOORS AND FRAMES

H. EXISTING DOOR AND FRAME TO BE TESTED AND FIELD LABELED TO ACHIEVE REQUIRED FIRE RATING



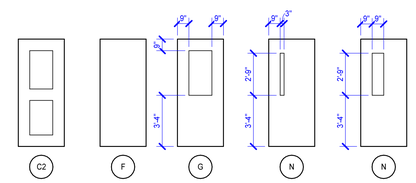
MANEUVERING CLEARANCE AT DOORS
NO SCALE



3 A3.2.1 **INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL** 6" = 1'-0"

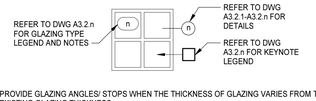
2 A3.2.1 **INTERIOR BETWEEN THE JAMB - PROJECTED HEAD/JAMB/SILL** 6" = 1'-0"

1 A3.2.1 **INTERIOR WRAP HEAD/JAMB/SILL** 6" = 1'-0"



DOOR TYPES

GENERAL NOTES



A. PROVIDE GLAZING ANGLES/ STOPS WHEN THE THICKNESS OF GLAZING VARIES FROM THE EXISTING GLAZING THICKNESS.

GLAZING TYPES

REPRESENTED BY n

1. SG-2P
2. SG-16F
3. INSG-1

NOTES:
REFERENCE DETENTION GLAZING TYPES - SHEET A3.3.1

DOOR, FRAME AND GLAZING TYPE KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A3.2.1 - A3.2.n

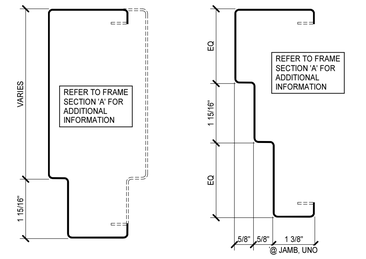
1	EXISTING JAMB TO REMAIN.

DOOR AND FRAME DETAIL KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A3.2.1 - A3.2.n

1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT, ALL SIDES - TOOL TO 90°.
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS; 1/2" @ GB.
6	1/4" @ JAMBS, UNO; DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.



1. ALL FRAME/JAMB DEPTHS, OTHER THAN WRAP CONDITIONS, SHALL BE _____ UNO.
2. ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
3. DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

STEEL FRAME SECTIONS
NO SCALE

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10-14-2025

STEVEN J HOPKINS REGISTERED ARCHITECT 11547 NORTH CAROLINA CHARLOTTE, NC

MOSELEY ARCHITECTS, P.C. REGISTERED ARCHITECTURAL CORPORATION 50149 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

DOOR & FRAME DETAILS, SCHEDULE, LOUVER & GLAZING TYPES

A3.2.1

10/13/2025 10:29:58 AM

DETENTION DOOR SCHEDULE

NUMBER	HDWR SET NO	DOOR TYPE	DOOR SIZE (NOMINAL)	DOOR MATL	DOOR SECURITY GLAZING TYPE	FRAME TYPE	FRAME NUMBER	FRAME HEAD DETAIL	FRAME JAMB DETAIL	FRAME JAMB DETAIL	FRAME SILL DETAIL	KEYING SECURITY	KEYING MASTER	FIRE RATING	OPTIONS SHUTTER	OPTIONS FOOD PASS	NOTES
D148A	SH2	DFG	3'-6"x7'-0"x2"	DHM	SG-2P	DHM	1	2	1	1	--		MA	--			
DK101	SH6A	DN	3'-6"x7'-0"x2"	DHM	SG-16F	DHM	3	7	6	6	5		MA	1/3HR			
DL101	SH6A	DN	3'-6"x7'-0"x2"	DHM	SG-16F	DHM	3	10	9	9	8		MA	1/3HR			
DSP140	SH2A	DN	3'-6"x7'-0"x2"	DHM	SG-16F	DHM	1	2	1	1	--		MA	1/3HR			
L102		X	3'-0"x7'-0"x2"	STL	--	STL	--	--	--	--	--			--			D1

NOTE:

D1. WIRE MESH GATE DOOR WITH CYLINDER LOCK.

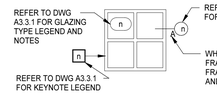
EXISTING DETENTION DOOR REPAIR SCHEDULE

NUMBER	DOOR TYPE	DOOR MATL	DOOR GLAZING TYPE	FRAME TYPE	FRAME NUMBER	FRAME SECTIONS	FRAME HEAD DETAIL	FRAME JAMB DETAIL	FRAME JAMB DETAIL	FRAME SILL DETAIL	FRAME GLAZING	FRAME HDWR	FIRE RATING	FOOD PASS	NOTES
HH1E	DN1	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR		ETR	1/3 HR	•	17
HH2E	DN1	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR		ETR	1/3 HR	•	17
HH3E	DN1	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR		ETR	1/3 HR	•	17
HH4E	DN1	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR		ETR	1/3 HR	•	17
HH5E	DN1	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR		ETR	1/3 HR	•	17
HH6E	DN1	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR		ETR	1/3 HR	•	17
HH7E	DN1	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR		ETR	1/3 HR	•	17
HH8E	DN1	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR		ETR	1/3 HR	•	17
SP116	DN	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR	--	ETR	1/3 HR		10
SP133A	DN	ETR	2	ETR	ETR		ETR	ETR	ETR	ETR	--	ETR	--		10

NOTE:

10. PROVIDE GLAZING IN EXISTING DOOR AND FRAME
11. EXISTING DOOR TO REMAIN. REPLACE GLAZING. RE-CAULK & REPAINT EXTERIOR
12. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING WITH SECURITY GLAZING
13. PROVIDE CLOSER PER HARDWARE SCHEDULE
14. EXISTING DOOR TO REMAIN PROVIDE CLOSER AND COORDINATOR. PANIC HARDWARE PER HARDWARE SCHEDULE
15. EXISTING DOOR TO REMAIN. PROVIDE LOCKSET PER HARDWARE SCHEDULE
16. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING WITH SECURITY GLAZING AND APPLY PRIVACY FILM
17. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING AND EXISTING FOOD PASS

DETENTION DOOR, FRAME AND GLAZING TYPE GENERAL NOTES



A. USE 5-3/4" FRAME WIDTH UNLESS INDICATED OTHERWISE. USE SINGLE RABBET FRAME SECTIONS AT GLAZING. VERIFY ACTUAL GLAZING THICKNESS PRIOR TO PREDRILLING FOR GLAZING STOPS. FRAME FACE DIMENSIONS ARE 2" UNLESS INDICATED OTHERWISE

B. REFER TO DETAIL 1 / A3.3.1 FOR TYPICAL GLAZING STOP. WINDOW NUMBER INDICATES ROOM NUMBER IN WHICH GLAZING STOP SHALL BE LOCATED. THIS APPLIES TO DETENTION WINDOWS ONLY.

C. REFER TO ARCH DRAWINGS FOR ALL DIMENSIONS AND WALL TYPES. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.

D. 12 GA CLOSURES SHALL BE CONTINUOUS FROM TOP TO BOTTOM OF SHORTER FRAME. THE CLOSURE SHALL BE SIZED TO OVERLAP THE FRAME FACE 1/2", CLAMPED IN PLACE AND PLUG WELDED TO EACH FRAME SECTION THROUGH 1/2" DIAMETER HOLES AT 4'-0" OC VERTICALLY LOCATED 3/4" FROM THE EDGE OF THE CLOSURE. THE WELDS SHALL BE GROUND SMOOTH AND FILLED WITH EPOXY FILLER. FILL ALL INTERIOR FRAMES SOLID WITH GROUT.

E. REFER TO SPECIFICATION SECTION 111950 FOR SECURITY GLAZING TYPES.

F. REFER TO DETENTION FRAME SECTIONS ON A3.3.1 INDICATED BY UPPERCASE LETTERS ("A", "B", "C") AS REFERENCED FROM DETENTION DOOR FRAME TYPES AND DETENTION WINDOW FRAME TYPES.

G. THE DEC SHALL FIELD VERIFY AND COORDINATE ALL DIMENSIONS AND MOUNTING CONDITIONS PRIOR TO INSTALLATION OF DHM.

H. DHM AND SHM SHALL BE USED INTERCHANGEABLY TO REFER TO SECURITY HOLLOW METAL AND DETENTION HOLLOW METAL. REFER TO SPECIFICATION SECTION 111910.

I. REFER TO SECURITY HARDWARE SPECIFICATION SECTION 111960 FOR HARDWARE SET NUMBERS REFERENCED ON A3.3.1.

J. REFER TO A3.4.1 FOR ALL HEAD, JAMB, AND SILL DETAILS REFERENCED IN DETENTION DOOR AND DETENTION WINDOW SCHEDULE, UNLESS INDICATED OTHERWISE.

K. PROVIDE FOOD PASS AT ALL DOORS WITH "●" INDICATED IN FOOD PASS COLUMN. PROVIDE FOOD PASS PER DETAIL ON A3.3.1.

L. ALL CONTROL ROOM GLAZING EXISTING TO REMAIN.

M. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G., SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

N. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

O. EXISTING DOORS AND FRAMES TO BE TESTED AND FIELD LABELED TO ACHIEVE REQUIRED FIRE RATING

DETENTION DOOR & FRAME KEYNOTES

1. NOT USED
2. NOT USED
3. NOT USED
4. NOT USED

DETENTION GLAZING TYPES

(ALL TYPES NOT NECESSARILY USED)

SG-2P = 1/2" ± THICK MULTI-PLY POLYCARBONATE GLAZING; ASTM F1915 GRADE 2

SG-16F = 1" ± THICK MULTI-PLY GLASS CLAD POLYCARBONATE GLAZING; ASTM F1915 GRADE 2, UL FIRE 45 MIN

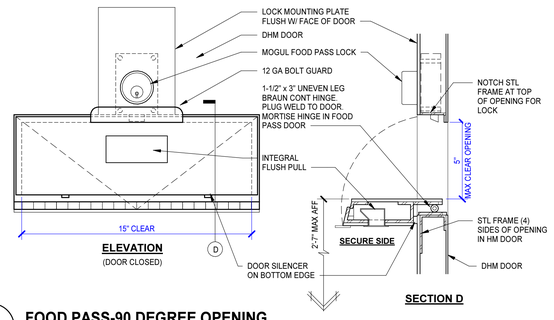
INSG-1 = 1 7/8" THICK MULTI-PLY GLASS CLAD POLYCARBONATE INSULATED GLASS UNIT; OUTER LITE 1/4" GLASS, 1/2" AIR SPACE, & INNER LITE SG-11

GLAZING TYPES

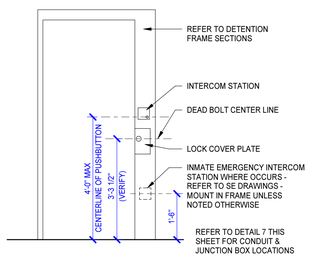
REPRESENTED BY (n)

1. SG-2P
2. SG-16F
3. INSG-1

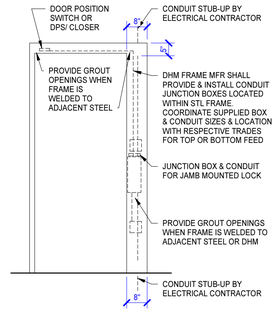
NOTES:
REFERENCE DETENTION GLAZING TYPES - SHEET A3.3.1



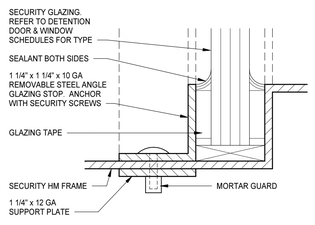
4 A3.3.1 — FOOD PASS-90 DEGREE OPENING — 3" = 1'-0"



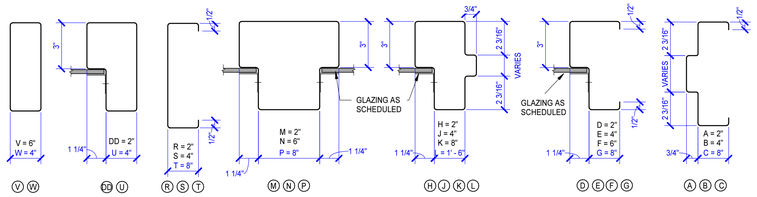
3 A3.3.1 — FRAME ELEVATION DETAILS — 1/2" = 1'-0"



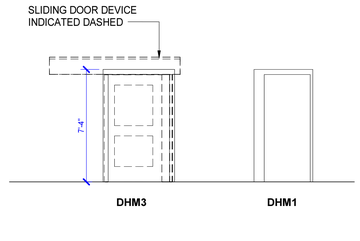
2 A3.3.1 — FRAME ELEVATION DETAILS — 1/2" = 1'-0"



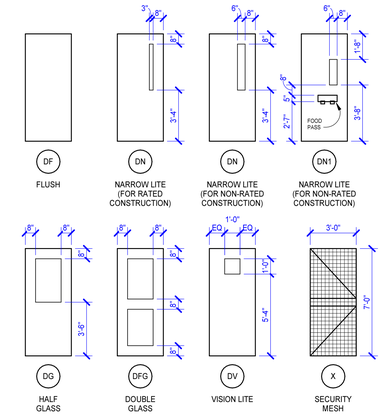
1 A3.3.1 — DETAIL - SECURITY GLAZING STOP — 12" = 1'-0"



20 A3.3.1 — DETENTION FRAME SECTIONS — 3" = 1'-0"



DETENTION FRAME TYPES



DETENTION DOOR TYPES

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10-14-2025

STEVEN J HOPKINS — REGISTERED ARCHITECT — 11547 — NORTH CAROLINA — CHARLOTTE, NC

MOSELEY ARCHITECTS, P.C. — REGISTERED ARCHITECTS — NC CORPORATION — 50149 — NORTH CAROLINA — CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

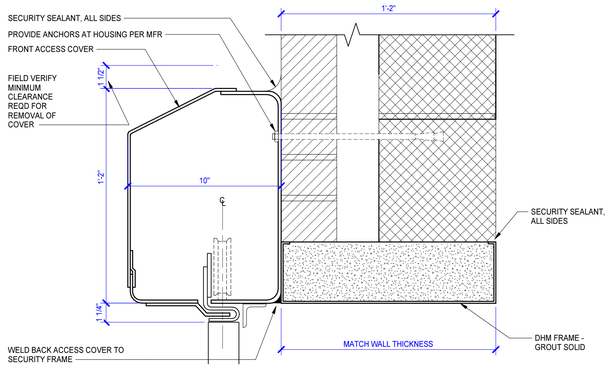
PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

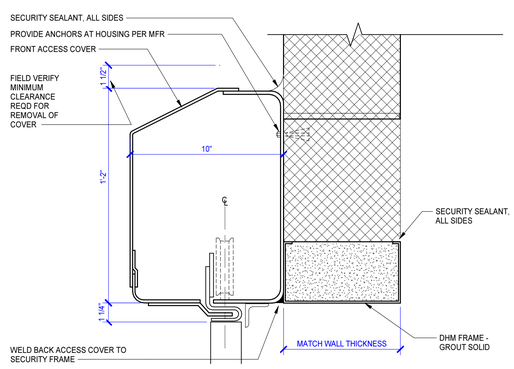
DETENTION DOOR SCHEDULE

A3.3.1

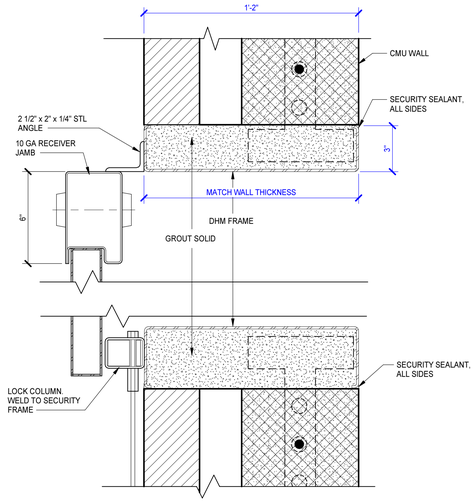
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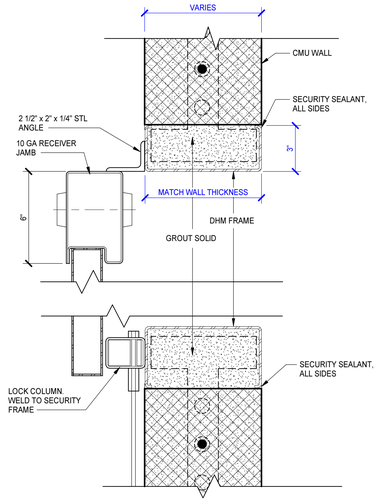
10 A3.4.1 **HEAD DETAIL - SLIDER BRICK/CMU**
3" = 1'-0"



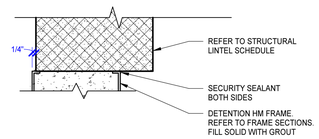
7 A3.4.1 **HEAD DETAIL - SLIDER CMU**
3" = 1'-0"



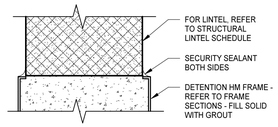
9 A3.4.1 **JAMB DETAIL - SLIDER BRICK/CMU**
3" = 1'-0"



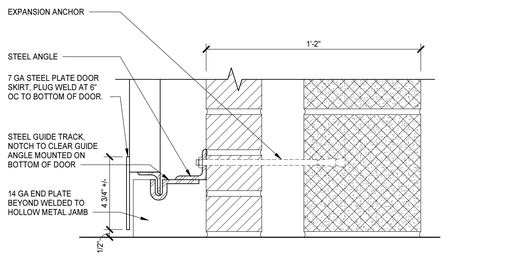
6 A3.4.1 **JAMB DETAIL - SLIDER CMU**
3" = 1'-0"



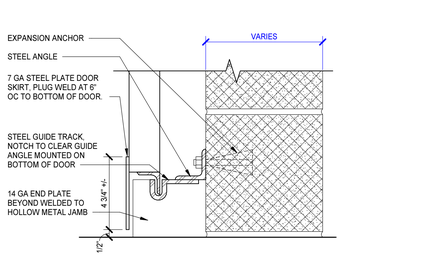
4 A3.4.1 **HEAD DETAIL - INSET**
3" = 1'-0"



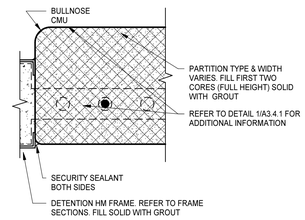
2 A3.4.1 **HEAD DETAIL - WRAP**
3" = 1'-0"



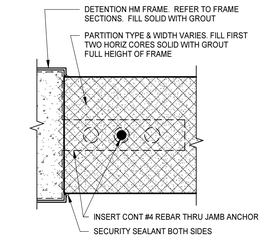
8 A3.4.1 **SILL DETAIL - SLIDER BRICK/CMU**
3" = 1'-0"



5 A3.4.1 **SILL DETAIL - SLIDER CMU**
3" = 1'-0"



3 A3.4.1 **JAMB DETAIL - INSET**
3" = 1'-0"



1 A3.4.1 **JAMB DETAIL - WRAP**
3" = 1'-0"

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CHARLOTTE, NC

DETENTION ANNEX RENOVATION

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Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

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DATE	DESCRIPTION

DETENTION DOOR AND FRAME DETAILS

A3.4.1

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GENERAL NOTES

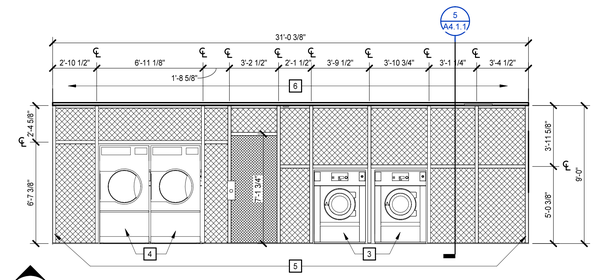
A. BUILDING ELEVATIONS ARE SHOWN TO INDICATE LOCATIONS AND TYPES OF LOUVERS. SEE ALSO A3.1.1

INTERIOR ELEVATION KEYNOTES

REPRESENTED BY n

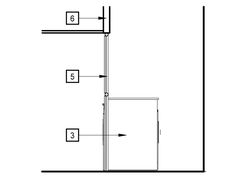
APPLIES TO DRAWING A4.1.1

1	EXISTING ACOUSTICAL PANEL TO BE PAINTED*
2	TV. ROUTE CONDUIT FROM OVERHEAD DOWN WALL BEHIND ACOUSTICAL PANELS
3	WASHER
4	DRYER
5	WIRE MESH PARTITION WITH DOOR. PADLOCK BY OWNER
6	GYP BD BULKHEAD. PARTITION TYPE P2. EXTEND TO STRUCTURE ABOVE



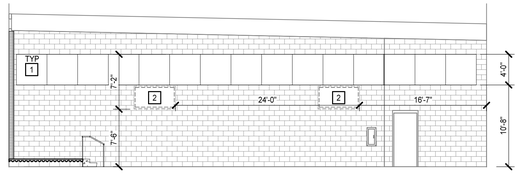
4 A1.4 A4.1.1 **LAUNDRY ELEVATION**

1/4" = 1'-0"



5 A1.4 A4.1.1 **LAUNDRY SECTION**

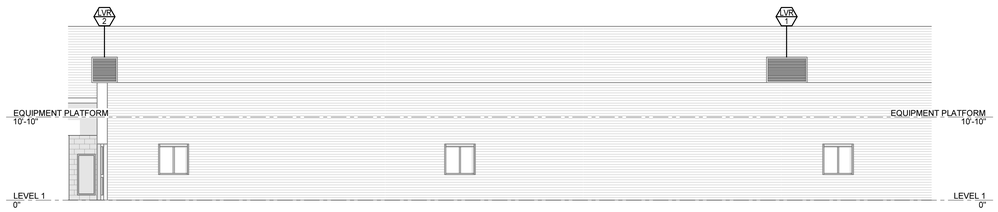
1/4" = 1'-0"



ACOUSTIC PANEL PAINT SCHEDULE:
PT5 - DORMITORY UNIT AA
PT6 - DORMITORY UNIT BB
PT7 - DORMITORY UNIT CC
PT8 - DORMITORY UNIT DD
PT9 - DORMITORY UNIT EE
PT10 - DORMITORY UNIT FF

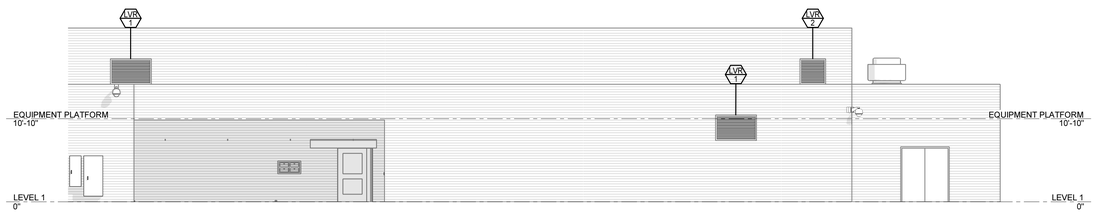
3 A1.2 A4.1.1 **HOUSING UNIT ELEVATION**

1/8" = 1'-0"



2 A2.2 A4.1.1 **BUILDING ELEVATION**

1/8" = 1'-0"



1 A2.1 A4.1.1 **BUILDING ELEVATION**

1/8" = 1'-0"

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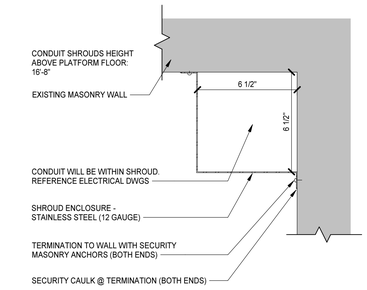
REVISIONS

DATE	DESCRIPTION

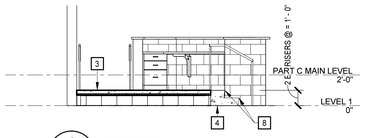
BUILDING & INTERIOR ELEVATIONS

A4.1.1

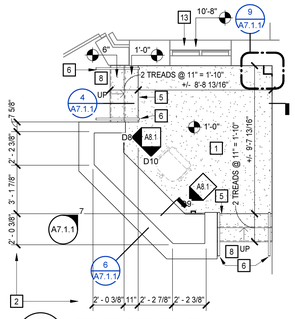
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9 CONDUIT CHASE SHROUD PLAN DETAIL
A7.1.1 A7.1.1 3" = 1'-0"



4 SECTION
A7.1.1 A7.1.1 1/4" = 1'-0"



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

KEYNOTES

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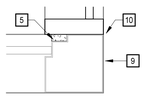
APPLIES TO DRAWINGS A7.1

1	RAISED DIRECT SUPERVISION PLATFORM
2	BUILD RAISED PLATFORM PER DIMENSIONS INDICATED
3	CONCRETE SLAB ON DECK ABOVE SLEEPER STUDS. SEE STRUCTURAL DWGS.
4	CAST IN PLACE CONCRETE STEPS.
5	SECURITY CAULK AT TRANSITION
6	HAND RAIL - FLOOR MOUNTED
7	STALL DOORS PER DIV. 08 - TYP.
8	PROVIDE TOOLED NOSING WITH FOUR 1/4" DEEP GROOVES 3/4" O.C., PARALLEL WITH TREAD EDGE. TOOL NOSING AT 1/2" RADIUS EDGE AT CAST IN-PLACE CONCRETE STEPS
9	EXISTING CORNER MULLION TO REMAIN
10	ATTACH JAMB TO EXISTING SECURITY H.M. CORNER FRAME
11	SOLID SURFACE MATERIAL
12	UNDERCOUNTER UTILITY BRACKET; PAINT TO MATCH WALL COLOR
13	EXISTING WINDOW ABOVE
15	6" CMU LOW WALL PER DETAIL ON SHEET A0.2.
16	8" CMU LOW WALL PER DETAIL ON SHEET A0.2.

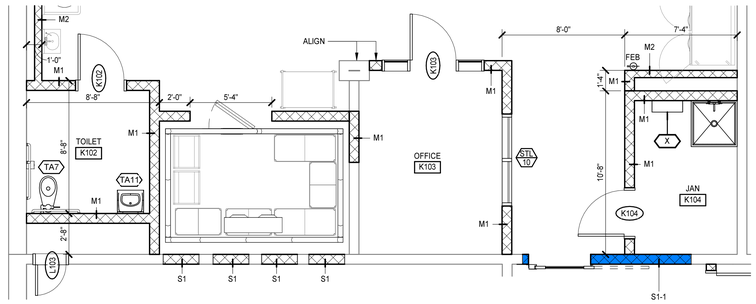
TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLAN GENERAL NOTES

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.



8 DETAIL
A7.1.1 A7.1.1 1 1/2" = 1'-0"



2 ENLARGED PLAN
A2.3 A7.1.1 1/4" = 1'-0"

TOILET ASSEMBLIES

APPLIES TO DRAWINGS A7.1 - A7.nn

REPRESENTED BY ⟨TAn⟩

MARK	REMARKS	PLAN
BARRIER FREE TA7		
BARRIER FREE TA8	OMIT E	
TA11	CENTER G OVER LAVATORY	WATER CLOSET / LAVATORY (1'-3" MIN)

BARRIER FREE		
TA12		C J H SEAT WALL 3'-0" CLR INSIDE
TA13	OMIT C H J	CONTROL WALL 3'-0" CLR INSIDE

SHOWER - TRANSFER STYLE

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.

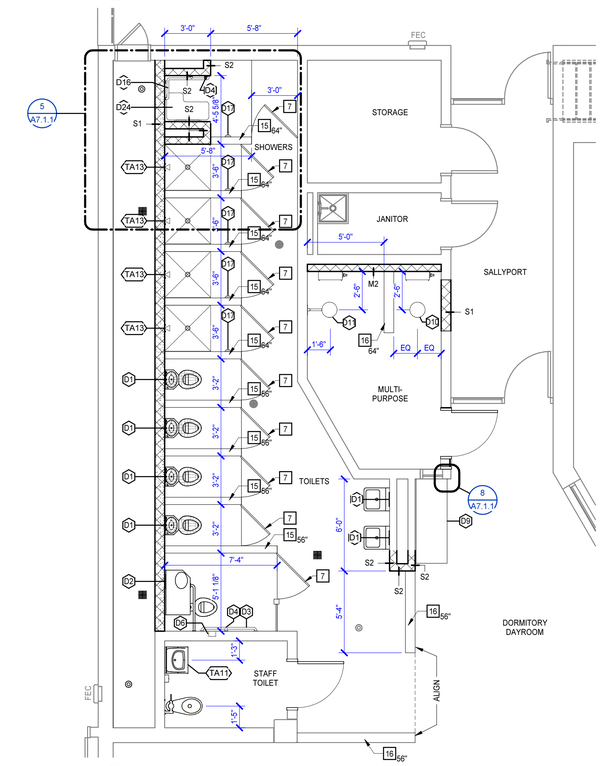
C. COAT/ROBE HOOKS INDICATED ON THE BACK OF TOILET COMPARTMENT DOORS ARE PART OF THE TOILET COMPARTMENT ASSEMBLY AND ARE NOT CONSIDERED A TOILET ACCESSORY.

TOILET ACCESSORIES SCHEDULE

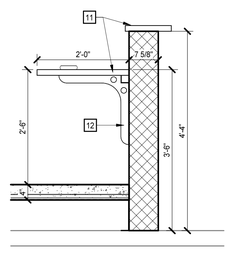
MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	36" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
B	42" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
C	18" VERTICAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D	TOILET TISSUE DISPENSER	REFER TO WATER CLOSET ELEVATIONS	
E	SANITARY NAPKIN DISPOSAL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

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.

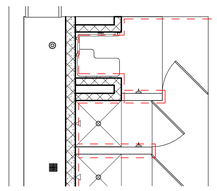
7 ELEVATION
A7.1.1 A7.1.1 1/4" = 1'-0"



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



6 SECTION
A7.1.1 A7.1.1 3/4" = 1'-0"

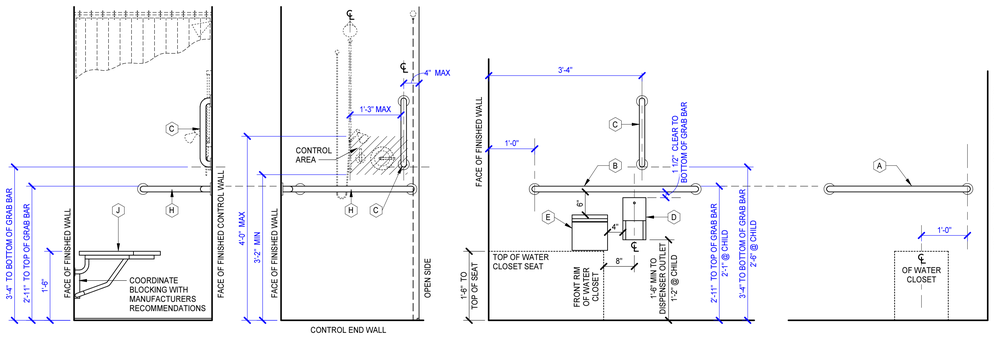


DASHED LINE DENOTES TYP. EXTENTS OF RES-B WALL FINISH IN SHOWER/TOILET AREAS

5 DETENTION SHOWERS
A7.1.1 A7.1.1 1/4" = 1'-0"

DETENTION EQUIPMENT SCHEDULE

NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
	PENAL COMBINATION FIXTURE			
D1	DETENTION MIRROR, SINGLE	PER DETAIL	1/A7.2.1	
D2	DETENTION MIRROR, DOUBLE	PER DETAIL	2/A7.2.1	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	
D4	GRAB BAR, ANTI-LIGATURE, 18"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	FOR SHOWER LOCATIONS, SEE TRANSFER-TYPE SHOWER ELEVATIONS
D6	RECESSED TOILET PAPER HOLDER	PER DETAIL	6/A7.2.1	
D9	DETENTION SS COUNTER, 24" DEPTH		<varies>	SALVAGED SS COUNTER TOP. INSTALL IN LOCATIONS SHOWN
D10	DETENTION STOOL, FLOOR-MOUNTED	FLOOR MOUNTED	9/A7.2.1	
D11	DETENTION SWING STOOL, WALL-MOUNTED	PER DETAIL	4/A7.2.1	INCLUDES WALL EMBED PLATE
D16	18"x36" CORNER GRAB BAR ASSEMBLY, ANTI -LIGATURE	REFER TO SHOWER ELEVATIONS		
D17	SAFETY HOOK, SINGLE	PER DETAIL	8/A7.2.1	
D18	DETENTION TABLE, 6-MAN	FLOOR MOUNTED	13/A.7.2.1 SIM	EXISTING TABLE. RE-INSTALL IN LOCATION SHOWN.
D19	DETENTION TABLE, 4-MAN	FLOOR MOUNTED	13/A.7.2.1	
D20	DETENTION TABLE, 4-MAN, ACCESSIBLE	FLOOR MOUNTED	14/A.7.2.1	
D21	DETENTION BUNK, SINGLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	
D22	DETENTION BUNK, DOUBLE, FLOOR-MOUNTED	FLOOR MOUNTED	12E/A7.2.1	EXISTING BUNK INSTALL IN NEW LOCATION SHOWN.
D24	L-SHAPED FOLDING SHOWER SEAT	1'-6" TO SEAT SURFACE		



TRANSFER-TYPE SHOWER ELEVATIONS
3/4" = 1'-0"

WATER CLOSET ELEVATIONS
3/4" = 1'-0"

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10-14-2025

STEVEN J HOPKINS REGISTERED ARCHITECT 11547 NORTH CAROLINA CHARLOTTE, NC

MOSELEY ARCHITECTS, P.C. REGISTERED ARCHITECTURAL CORPORATION 50149 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

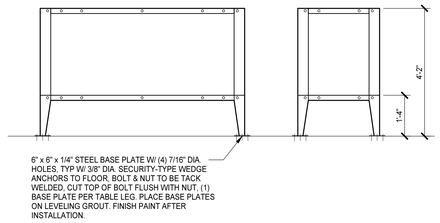
3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025
REVISIONS
DATE DESCRIPTION

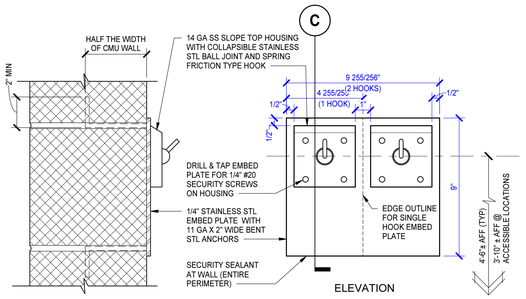
TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLANS

A7.1.1

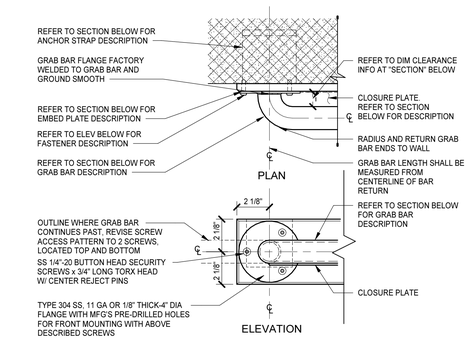
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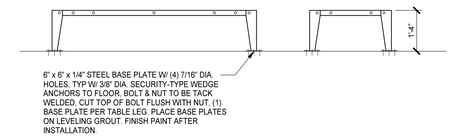
12E FLOOR MOUNTED BUNK - DOUBLE
A7.2.1 1/2" = 1'-0"



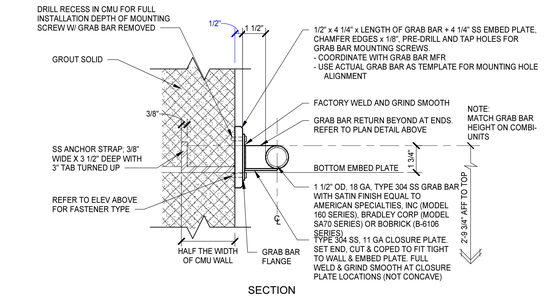
8 SAFETY CLOTHES HOOKS
A7.2.1 3" = 1'-0"



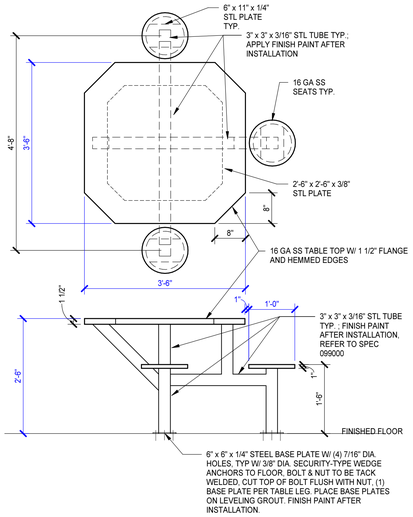
NOTE:
GRAB BARS FURNISHED UNDER DIVISION 11 AND INSTALLED UNDER DIVISION 4. SET GRAB BARS WITH EMBED PLATES ATTACHED. PROTECT UNIT UNTIL MASONRY MORTAR HAS CURED FOR FIRM ANCHORAGE.



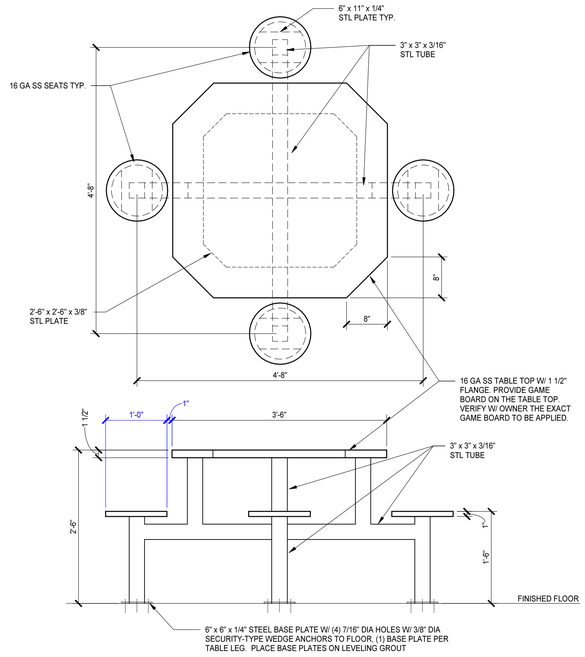
12 FLOOR MOUNTED BUNK - SINGLE
A7.2.1 1/2" = 1'-0"



3 REMOVABLE GRAB BAR W/ CONTINUOUS EMBED PLATE DETAIL
A7.2.1 3" = 1'-0"

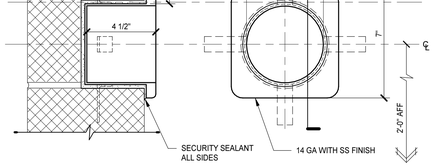


14 DETENTION 4-MAN ACCESSIBLE TABLE
A7.2.1 3/4" = 1'-0"



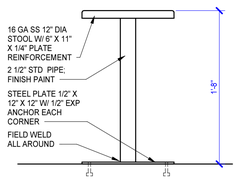
13 DETAIL - DETENTION 4 MAN TABLE
A7.2.1 1" = 1'-0"

7 NOT USED
A7.2.1 1" = 1'-0"



11 STAINLESS STEEL COUNTER
A7.2.1 1 1/2" = 1'-0"

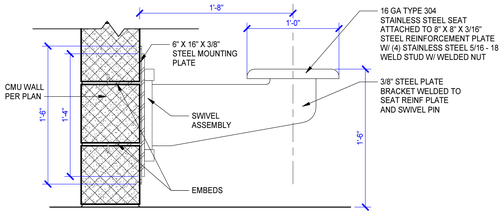
10 NOT USED
A7.2.1 3" = 1'-0"



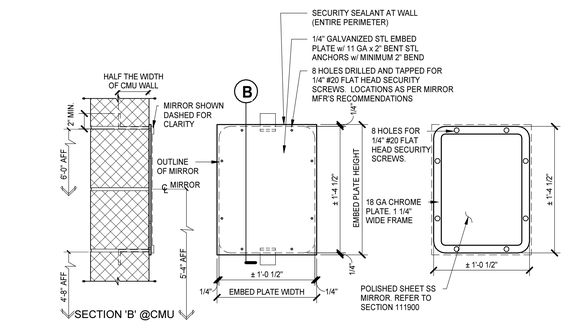
9 STOOL DETAIL
A7.2.1 1 1/2" = 1'-0"

6 DETAIL - TOILET PAPER ROLL HOLDER (RECESSED)
A7.2.1 3" = 1'-0"

5 NOT USED
A7.2.1 1 1/2" = 1'-0"



4 SWING STOOL
A7.2.1 1 1/2" = 1'-0"



2 DETAIL - DETENTION MIRROR DETAIL (DOUBLE)
A7.2.1 1 1/2" = 1'-0"

1 DETENTION MIRROR, SINGLE
A7.2.1 1 1/2" = 1'-0"

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10-14-2025

STEVEN J HOPKINS — REGISTERED ARCHITECT — 11547 — NORTH CAROLINA — CHARLOTTE, NC

MOSELEY ARCHITECTS, P.C. — REGISTERED ARCHITECTS — NORTH CAROLINA CORPORATION — 50149 — CHARLOTTE, NC

DETENTION ANNEX RENOVATION
3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

DETENTION EQUIPMENT DETAILS

A7.2.1

10/13/2025 10:30:11 AM

CASEWORK GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
   a. 2'-10" AFF MAX OR 2'-10" MAX TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
   b. 2'-1" DEEP
   c. HIGH PRESSURE SOLID SURFACE.
   d. BACKSPLASHES: 4" HIGH AT ALL SIDES AND BACK
   e. EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
   f. VERIFY SLAB LEVELNESS AT CASEWORK PRIOR TO INSTALL. CONSTRUCTION TOLERANCES DO NOT APPLY TO ACCESSIBILITY DIMENSIONS; MAX DIMENSIONS SHALL BE MAINTAINED.

B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
   a. 2'-0" DEEP NOMINAL
   b. TOE KICKS: 4" NOMINAL HIGH (REDUCE AS NEEDED FOR TOLERANCES) AND 3" DEEP
   c. SINK LOCATIONS: 3'-0" WIDE CABINET WITH ATTACHED TOE KICK FOR BARRIER FREE ACCESS.

C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
   a. 1'-0 1/2" DEEP NOMINAL
   b. 2'-6" HIGH
   c. TOP AT 7'-0" AFF
   d. MINIMUM 11" CLEAR INTERIOR DEPTH

D. UNLESS INDICATED OTHERWISE, ALL TALL CABINET(S):
   a. 2'-0" DEEP NOMINAL
   b. 7'-0" HIGH
   c. TOE KICKS: 4" HIGH AND 3" DEEP

E. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.

F. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.

G. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.

H. LOCKS ON ALL DETENTION CASEWORK.

I. ALL CASEWORK NOTED WITH "D" TO BE DETENTION GRADE CASEWORK.

CASEWORK KEYNOTES

REPRESENTED BY [n]

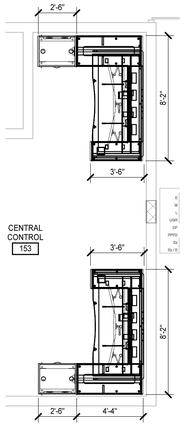
APPLIES TO DRAWING A8.1

1	ACCESSIBLE SINK CABINET WITH ATTACHED TOE KICK, REFER TO 13/A8.1
2	OPEN KNEE SPACE
3	UNDERCOUNTER BRACKET
4	REFRIGERATOR (NIC)
5	BULLNOSE ALL EDGES OF THE COUNTER
6	COFFEE MAKER (NIC)
7	MICROWAVE (NIC)
8	TRASH BIN CABINET
9	ICE MAKER (NIC)

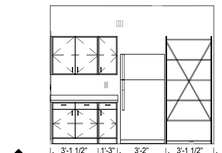


REFER TO SPECIFICATIONS FOR REQUIREMENTS

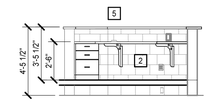
12 / A8.1 **CONTROL ROOM TYPICAL CONSOLE**
1/2" = 1'-0"



11 **CONTROL ROOM**
1/4" = 1'-0"

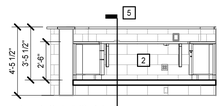


D14 **MEDICATION PREP - N**
1/4" = 1'-0"



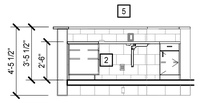
REFER TO ENLARGED PLAN FOR DIMEMSIONS A7.1.1

D10 **RAISED DIRECT SUPERVISION - S**
1/4" = 1'-0"



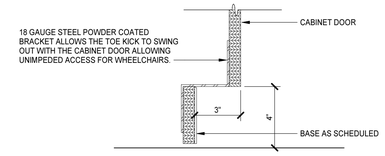
REFER TO ENLARGED PLAN FOR DIMEMSIONS A7.1.1 — 6 / A7.1.1

D9 **RAISED DIRECT SUPERVISION - SW**
1/4" = 1'-0"

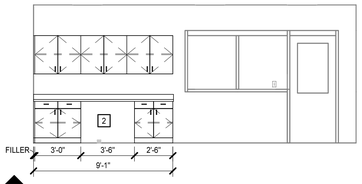


REFER TO ENLARGED PLAN FOR DIMEMSIONS A7.1.1

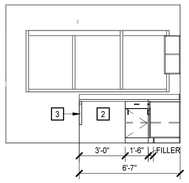
D8 **RAISED DIRECT SUPERVISION - W**
1/4" = 1'-0"



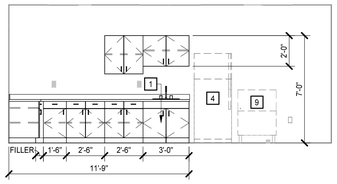
13 / A8.1 **TYP ACCESSIBLE INTEGRAL TOEKICK**
3" = 1'-0"



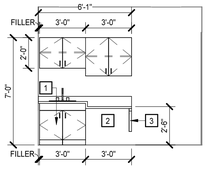
D7 **131 NURSE STATION - N**
1/4" = 1'-0"



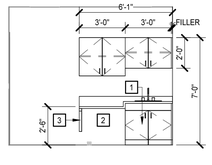
D6 **131 NURSE STATION - E**
1/4" = 1'-0"



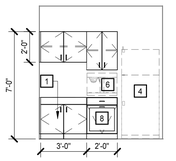
D5 **131 NURSE STATION - S**
1/4" = 1'-0"



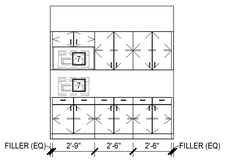
D4 **126 MEDICATION PREP - S**
1/4" = 1'-0"



D3 **125 EXAM - N**
1/4" = 1'-0"



2 **112 STAFF BREAKROOM - W**
1/4" = 1'-0"



1 **112 STAFF BREAKROOM - E**
1/4" = 1'-0"

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10-14-2025

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MOSELEY ARCHITECTS, P.C. — REGISTERED ARCHITECTS — NC CORPORATION — 50149 — NORTH CAROLINA — CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

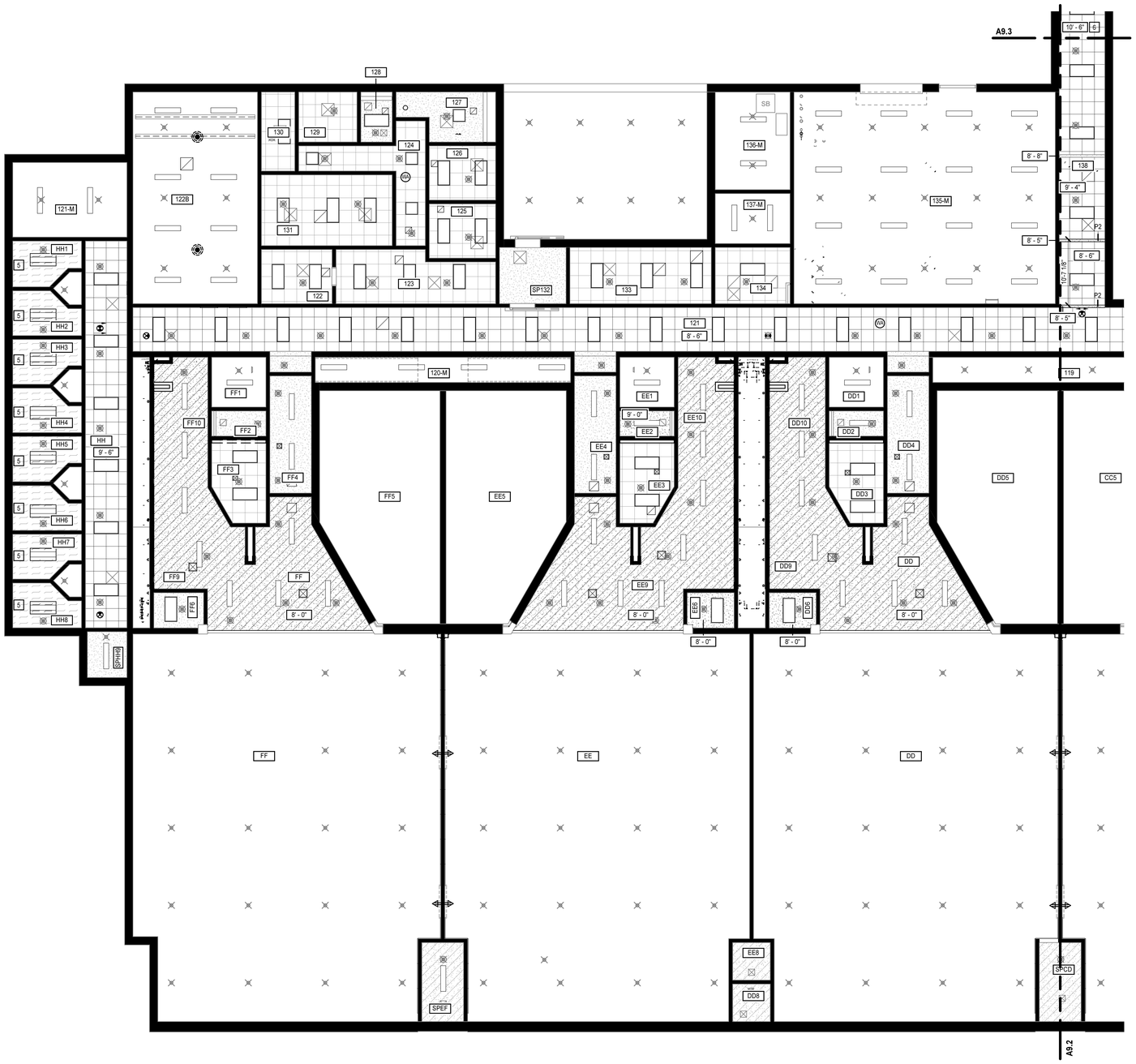
REVISIONS

DATE	DESCRIPTION

CASEWORK AND ELEVATIONS

A8.1

10/13/2025 10:30:16 AM



2 FIRST FLOOR REFLECTED CEILING PLAN - AREA A

A4.1.1 | A9.1

1/8" = 1'-0"

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
- SECURITY GYPSUM BOARD CEILING BY DIVISION 09 GYPSUM BOARD SECURITY ASSEMBLIES
- 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
- SECURITY CEMENT PLASTER
- EXPOSED, OPEN TO ABOVE
- 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. SEE FLOOR PLANS FOR FINISH FLOOR ELEVATION CHANGES. PARTS A & B = 304.00, WHILE PART C = 306.00, TYPICALLY.

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.

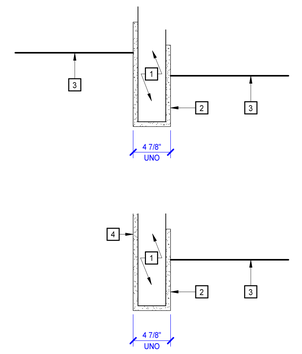
D. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO SATISFY CODE OR COVERAGE DENSITIES (OTHER THAN THOSE THAT MAY BE INDICATED), PROVIDE ADDITIONAL SPRINKLER HEADS AT NO ADDITIONAL COST AND OBTAIN APPROVAL OF ARCHITECT FOR LOCATION OF SUCH HEADS, IF ANY.

REFLECTED CEILING PLAN KEYNOTES

REPRESENTED BY n

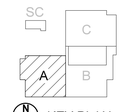
APPLIES TO DRAWINGS A9.1.1 - A9.1.n

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	EXTEND GB FULL HEIGHT, UNLESS INDICATED OTHERWISE
5	PATCH EXISTING CEILING AT LIGHT FIXTURE
6	FINISH FLOOR ELEVATION AT THIS AREA IS AT 306.00. (2'-0" HIGHER THAN BOTTOM OF RAMP). SEE ALSO A2 SERIES
7	GYP BD BULKHEAD, PARTITION TYPE P2. EXTEND TO STRUCTURE ABOVE



BULKHEAD DETAILS

NO SCALE



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MOSELEY ARCHITECTS, P.C. REGISTERED ARCHITECTURAL CORPORATION 50149 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

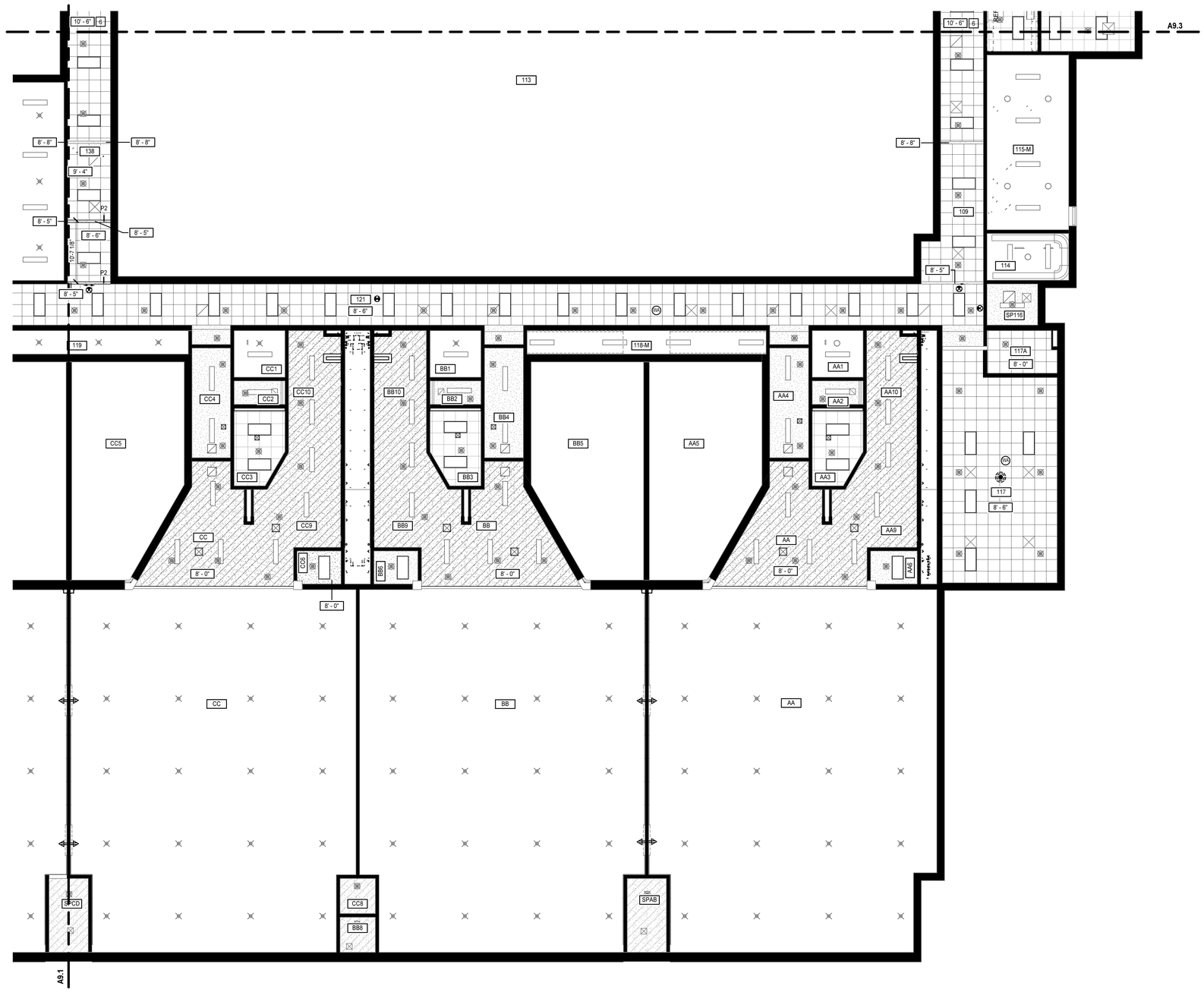
REVISIONS

DATE	DESCRIPTION

REFLECTED CEILING PLAN - PART A

A9.1

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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
- SECURITY GYPSUM BOARD CEILING BY DIVISION 09 GYPSUM BOARD SECURITY ASSEMBLIES
- 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
- SECURITY CEMENT PLASTER
- EXPOSED, OPEN TO ABOVE
- 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. SEE FLOOR PLANS FOR FINISH FLOOR ELEVATION CHANGES. PARTS A & B = 304.00, WHILE PART C = 306.00, TYPICALLY.

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.

REFLECTED CEILING PLAN KEYNOTES

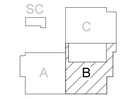
REPRESENTED BY n

APPLIES TO DRAWINGS A9.1.1 - A9.1.n

1	CFSF-S
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
4	EXTEND GB FULL HEIGHT, UNLESS INDICATED OTHERWISE
5	PATCH EXISTING CEILING AT LIGHT FIXTURE
6	FINISH FLOOR ELEVATION AT THIS AREA IS AT 306.00. (2'-0" HIGHER THAN BOTTOM OF RAMP). SEE ALSO A2 SERIES
7	GYP BD BULKHEAD, PARTITION TYPE P2. EXTEND TO STRUCTURE ABOVE

1 / A4.1.1 | A9.2 — **FIRST FLOOR REFLECTED CEILING PLAN - AREA B**

1/8" = 1'-0"



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DETENTION ANNEX RENOVATION

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PROJECT NO: 642088
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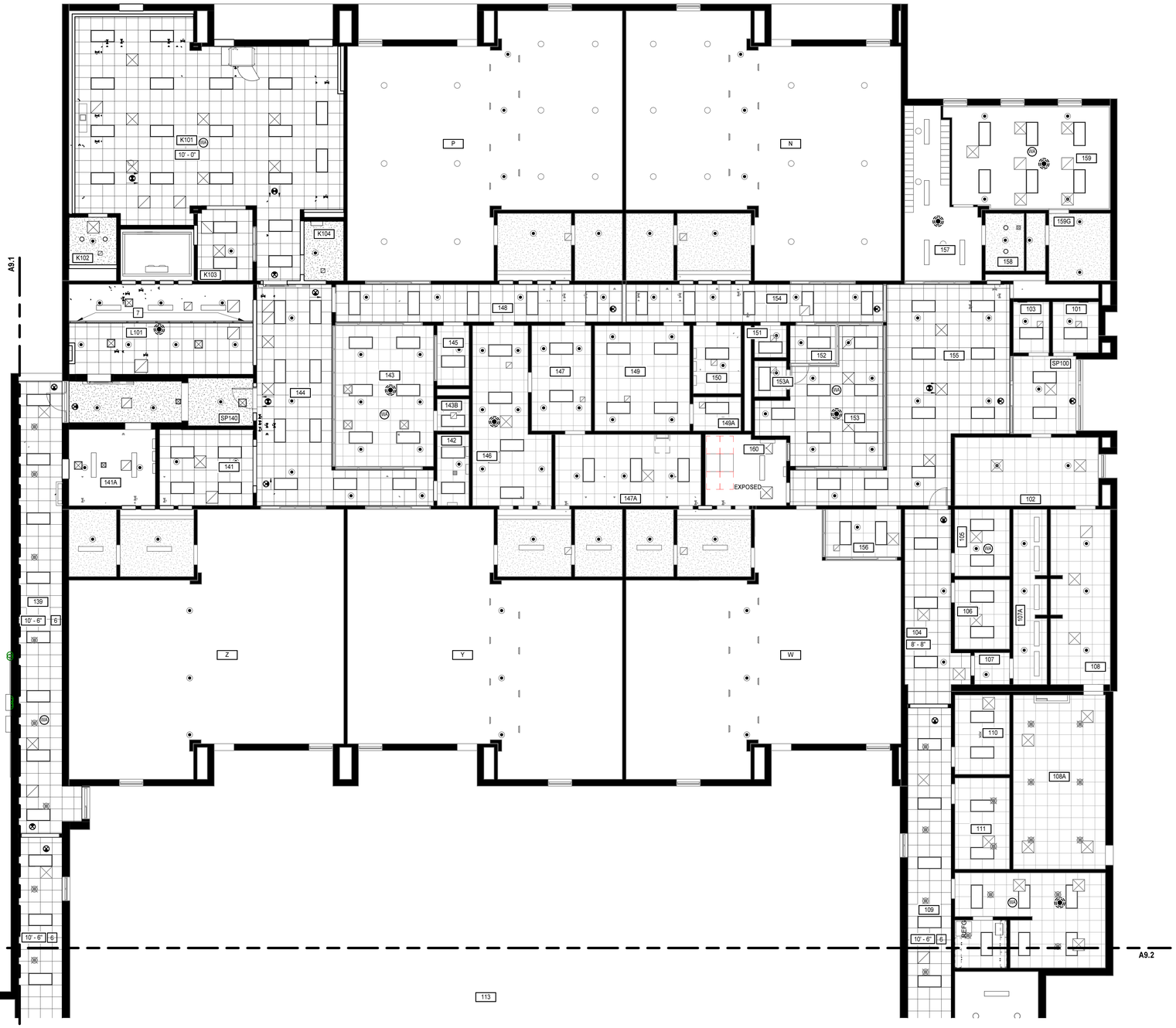
REVISIONS

DATE	DESCRIPTION

REFLECTED CEILING PLAN - PART B

A9.2

10/13/2025 10:30:20 AM



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
- SECURITY GYPSUM BOARD CEILING BY DIVISION 09 GYPSUM BOARD SECURITY ASSEMBLIES
- 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
- SECURITY CEMENT PLASTER
- EXPOSED, OPEN TO ABOVE
- AP — ACCESS PANEL
- WITH OPENING — EXTERIOR WALL
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- 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

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REFLECTED CEILING PLAN KEYNOTES

REPRESENTED BY n

APPLIES TO DRAWINGS A9.1.1 - A9.1.n

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7	GYP BD BULKHEAD, PARTITION TYPE P2. EXTEND TO STRUCTURE ABOVE

1 A4.1.1 A9.3 — **FIRST FLOOR REFLECTED CEILING PLAN - AREA C**

1/8" = 1'-0"

SC C A B — KEY PLAN

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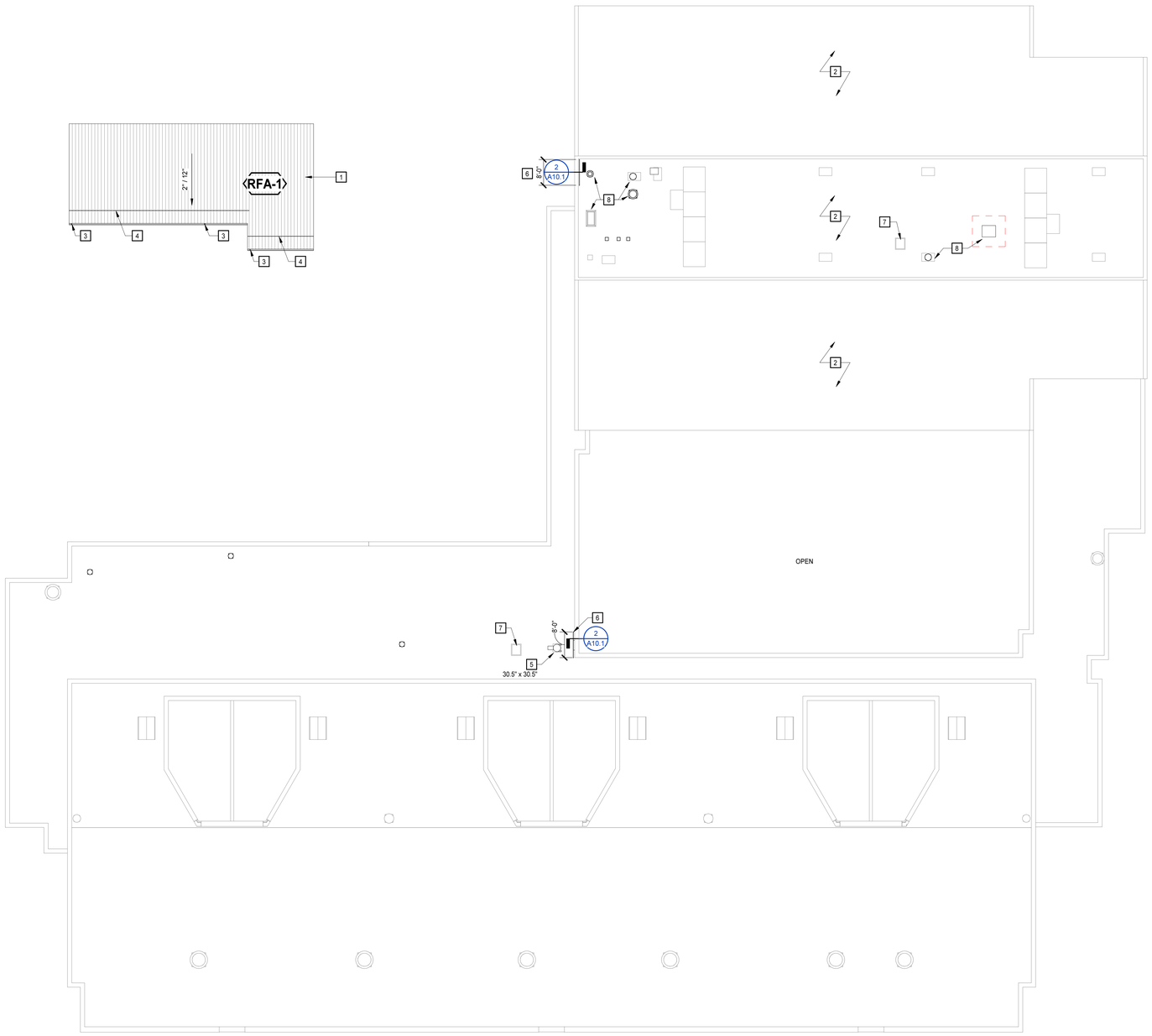
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DATE	DESCRIPTION

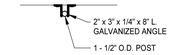
REFLECTED CEILING PLAN - PART C

A9.3

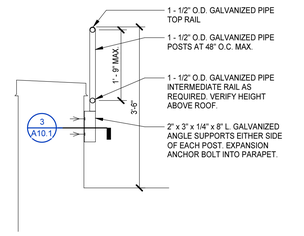
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1 A10.1 **OVERALL ROOF PLAN**
1/16" = 1'-0"



3 TYP A10.1 **PARAPET GUARDRAIL PLAN SECTION**
3/4" = 1'-0"

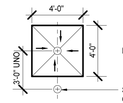


2 TYP A10.1 **PARAPET GUARDRAIL SECTION DETAIL**
3/4" = 1'-0"

ROOF PLAN LEGEND

APPLIES TO DRAWINGS A10.1.1 - A10.1.n

REFER TO M, E & FP DRAWINGS FOR ROOF SYMBOLS NOT INDICATED BELOW.



PRIMARY ROOF DRAIN AND SUMP

SECONDARY/EMERGENCY OVERFLOW (WHERE OCCURS)

DS
GUTTER AND DOWNSPOUT (RECTANGULAR SHOWN, MAY BE ROUND IF SPECIFIED)

ROOF ACCESS HATCH

SCUPPER

CRICKET

WALKWAY PATH

INDICATES DIRECTION OF ROOF ASSEMBLY SLOPE

ROOF PLAN GENERAL NOTES

A. ALL ROOF ASSEMBLIES: RFA1, UNO.

B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS. REFER TO OTHER DISCIPLINE'S DRAWINGS FOR QUANTITIES AND LOCATIONS OF ROOFTOP EQUIPMENT AND ASSOCIATED PENETRATIONS.

C. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ASSOCIATED PENETRATIONS WITH STRUCTURE.

D. ROOF DETAILS MAY NOT ENTIRELY REPRESENT ACTUAL CONSTRUCTION CONDITIONS. ACTUAL DETAIL ASSEMBLIES SHALL BE APPROVED BY ROOFING MANUFACTURER.

E. ROOF PLAN DOES NOT INDICATE ALL ROOFING DETAILS (INCLUDING BUT NOT LIMITED TO ROOF DRAINS; VTR; CURBS; EXPANSION JOINTS; ROOF HATCHES). PROVIDE MFR'S DETAILS AS REQUIRED TO SUIT SPECIFIC APPLICATION AND SPECIFICATIONS.

F. PROVIDE CRICKETS AT DRAINS, WALLS, CURBS, MECHANICAL EQUIPMENT, AND OTHER OBSTRUCTIONS SUCH THAT 1/4" PER FOOT MINIMUM POSITIVE DRAINAGE SLOPE IS MAINTAINED AT ALL SUCH AREAS.

G. PROVIDE DOUBLE-LAYER OF MEMBRANE ROOFING MATERIAL UNDER SPLASH BLOCKS.

H. CENTER ALL PENETRATIONS BETWEEN RIBS OF METAL ROOFING. PIPING, DUCTWORK AND CURBS SHALL BE OFFSET AS REQUIRED TO ACHIEVE PENETRATIONS CENTERED BETWEEN RIBS.

ROOF PLAN KEYNOTES

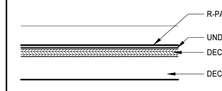
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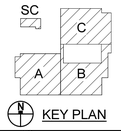
APPLIES TO DRAWING A10.1

1	STANDING SEAM METAL ROOF
2	REPLACE ROOF - SEE ROOF CONSULTANT DWGS.
3	GUTTER (ABOVE) & VERTICAL DOWNSPOUT W/ SPLASHBLOCK
4	SNOW GUARD
5	OPENING FOR ROOF MOUNTED MECHANICAL EQUIPMENT - SEE MECHANICAL DWGS
6	GUARDRAIL
7	EXISTING ROOF HATCH
8	MECHANICAL UNIT UTILIZES EXISTING ROOF OPENING & CURB

ROOF ASSEMBLIES

APPLIES TO A10.1.n AND A10.2.n SERIES OF DRAWINGS
REPRESENTED BY n

MARK	FIRE RATED ASSEMBLY (REFER TO LS1.1 FOR LEGEND)	REMARKS	INFORMATION (ROOF ASSEMBLIES ARE SHOWN DIAGRAMMATICALLY. REFER TO SPECS FOR REQUIRED R-VALUE AND MATERIAL THICKNESS
RFA1			



KEY PLAN

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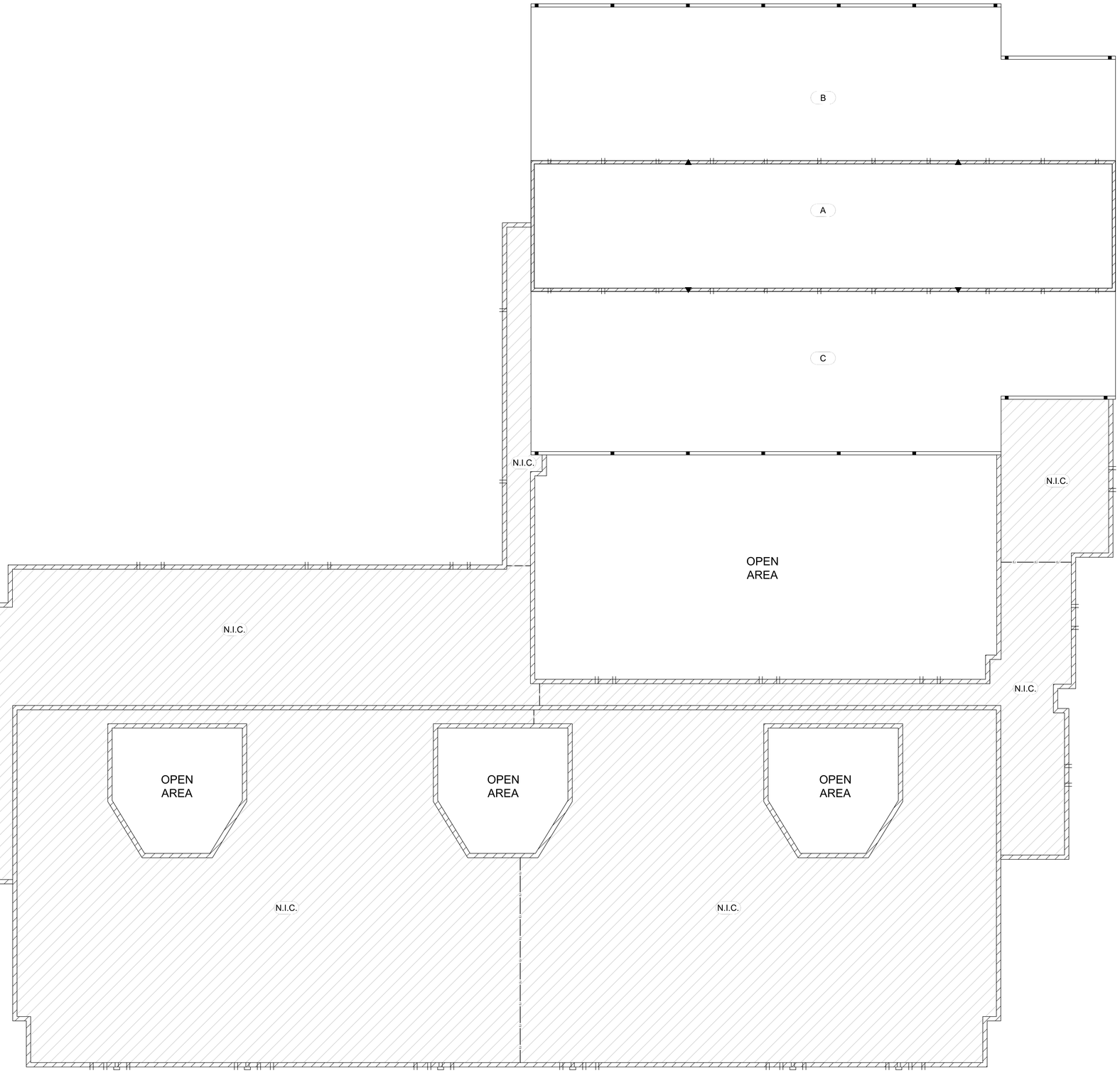
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DATE	DESCRIPTION

ROOF PLAN

A10.1

10/13/2025 10:30:23 AM



ROOF SECTOR	AREA	HEIGHT (FT.)
A	6,650 SQ. FT.	18'
B	7,760 SQ. FT.	18'
C	8,080 SQ. FT.	18'

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3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.

KEY

- ROOF EDGE
- PARAPET WALL
- EXPANSION JOINT
- GUTTER EDGE
- PRIMARY SCUPPER
- NOT IN CONTRACT
- ELEVATION CHANGE
- (XX) ROOF AREA INDICATOR

A OVERALL ROOF PLAN

SCALE: 3/4"=1'

3/4"=1'0" 13 0 13 27

KEY PLAN

4/11/2025 9:51:26 AM

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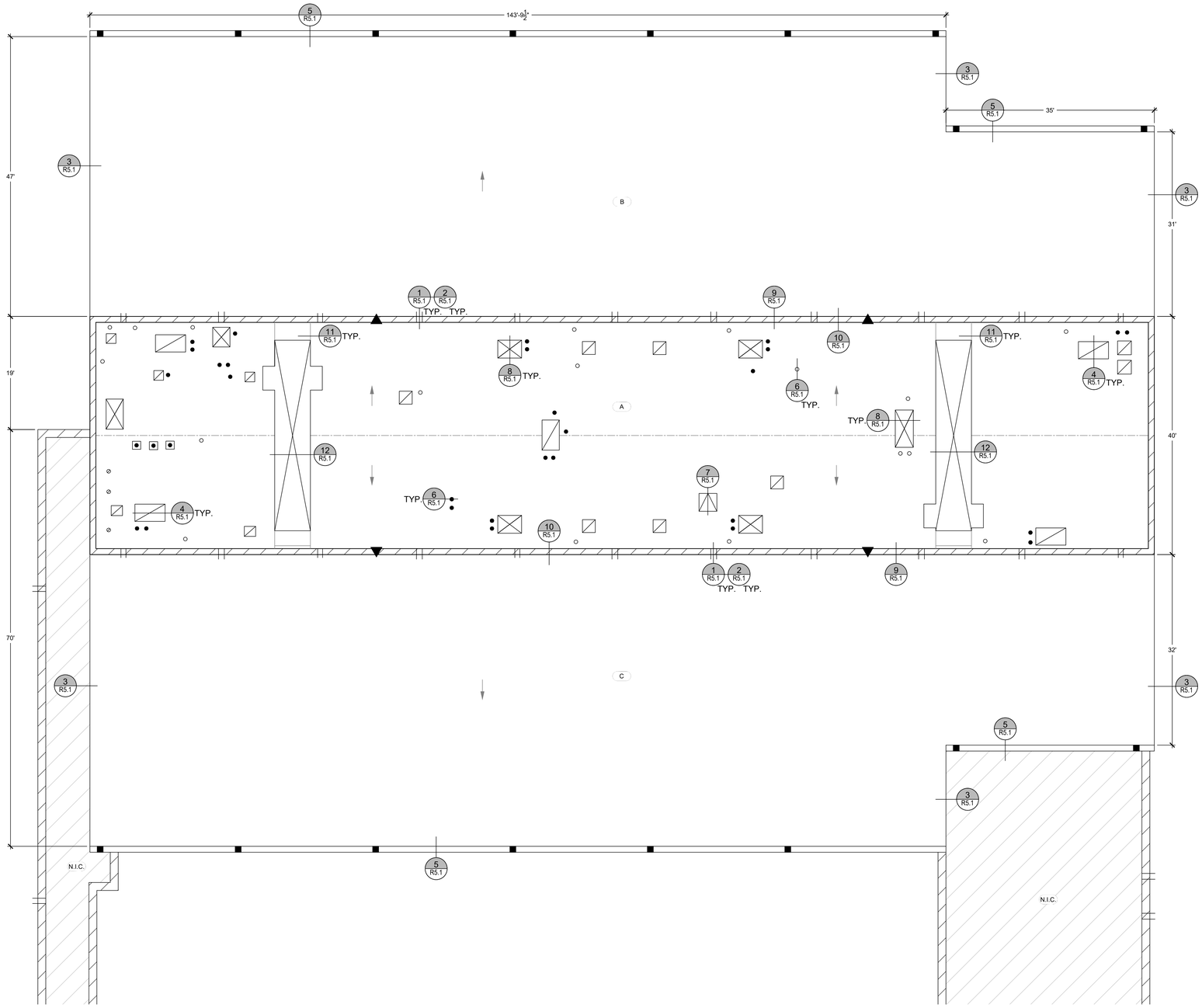
3440 Hammond Road, Raleigh, NC 27603
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REI PROJECT NO: R25RAL-019
DATE: 05-22-25

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DATE	DESCRIPTION

Overall Roof Plan

R1.1



ROOF SECTOR	AREA	HEIGHT (FT.)
A	6,650 SQ. FT.	18'
B	7,760 SQ. FT.	18'
C	8,080 SQ. FT.	18'

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3. ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
4. NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.

KEY

- ROOF EDGE
- PARAPET WALL
- EXPANSION JOINT
- GUTTER EDGE
- TAPERED INSULATION SLOPE
- PRIMARY SCUPPER
- CONDUIT/ PIPE PENETRATION
- CAPPED PIPE PENETRATION
- HOT STACK
- MECHANICAL CURB
- CAPPED CURB
- ROOF HATCH
- NOT IN CONTRACT
- ELEVATION CHANGE
- (XX) ROOF AREA INDICATOR

A ROOF PLAN

SCALE: 1/8"=1'

1/8" = 1'-0" 8 0 8 16

KEY PLAN

4/11/2025 9:51:26 AM

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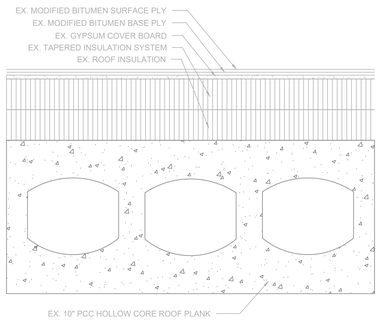
REI PROJECT NO: R25RAL-019
DATE: 05-22-25

REVISIONS

DATE	DESCRIPTION

Roof Plan

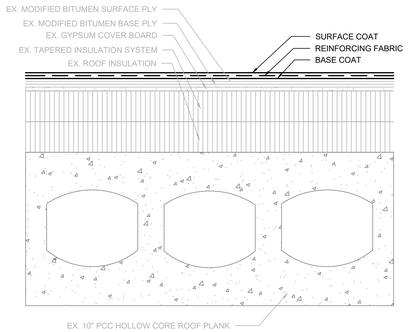
R1.2



NOTES:
1. EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING AT TEST CUT LOCATIONS INDICATED ON ROOF PLAN.
2. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
3. REMOVE COMPONENTS DOWN TO THE EXISTING PLANK TO REMAIN.

A EXISTING ROOF SYSTEM - SECTOR A

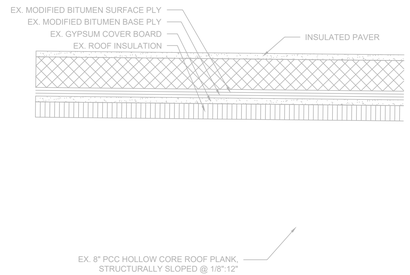
SCALE: 3" = 1'-0"



NOTE:
1. PROVIDE AN APPROVED, TESTED ROOF ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE MINIMUM REQUIRED WIND UPLIFT STRENGTH SPECIFIED ON DRAWING XR101. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.

A1 REPLACEMENT ROOF SYSTEM - SECTOR A

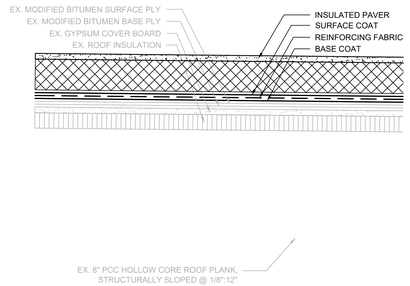
SCALE: 3" = 1'-0"



NOTES:
1. EXISTING ROOF SYSTEM COMPOSITION SHOWN IS BASED UPON RANDOM SAMPLING AT TEST CUT LOCATIONS INDICATED ON ROOF PLAN.
2. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY INFORMATION PROVIDED.
3. REMOVE COMPONENTS DOWN TO THE EXISTING PLANK TO REMAIN.

B EXISTING ROOF SYSTEM - SECTORS B & C

SCALE: 3" = 1'-0"



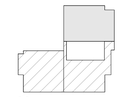
NOTE:
1. PROVIDE AN APPROVED, TESTED ROOF ASSEMBLY IN ACCORDANCE WITH FM 4474, UL 580 OR UL 1897 TO RESIST THE MINIMUM REQUIRED WIND UPLIFT STRENGTH SPECIFIED ON DRAWING XR101. PROVIDE SUBMITTAL INCLUDING DOCUMENTATION OF TESTED ASSEMBLY ALONG WITH ATTACHMENT REQUIREMENTS FOR THE ASSEMBLY.

B1 REPLACEMENT ROOF SYSTEM - SECTORS B & C

SCALE: 3" = 1'-0"

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DETENTION ANNEX RENOVATION

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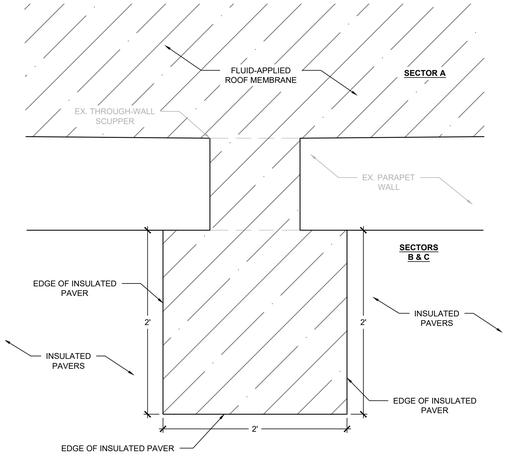
REI PROJECT NO: R25RAL-019
DATE: 05-22-25

REVISIONS	
DATE	DESCRIPTION

Roof Systems

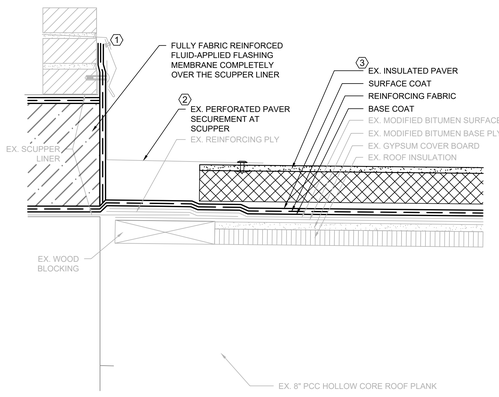
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1 FLUID-APPLIED ROOFING AT THROUGH-WALL SCUPPERS

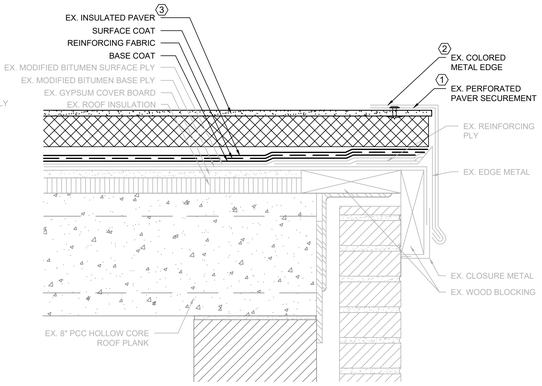
SCALE: 1-1/2" = 1'-0"



NOTES:
1. CAREFULLY REMOVE RIVETS AND SECTION OF COUNTERFLASHING, SALVAGE AND STORE COUNTERFLASHING IN A MANNER FOR REINSTALLATION AFTER THE INSTALLATION OF THE FLUID-APPLIED FLASHING MEMBRANE.
2. REMOVE AND DISPOSE OF THE EXISTING PERFORATED PAVER SACUREMENT AT SCUPPER OPENING.
3. REMOVE INSULATED PAVERS. SALVAGE AND STORE IN A MANNER FOR REINSTALLATION AFTER THE APPLICATION OF THE FLUID-APPLIED MEMBRANE SYSTEM.

2 PARAPET WALL FLASHING AT SCUPPER

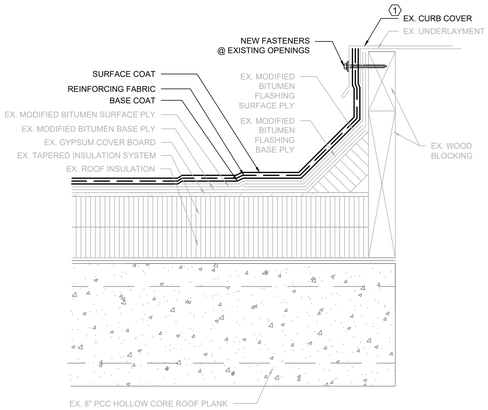
SCALE: 3" = 1'-0"



NOTES:
1. CAREFULLY REMOVE FASTENERS AND THE COLORED EDGE SHEET METAL. SALVAGE AND STORE EDGE METAL IN A MANNER FOR PERFORATED PAVER SECUREMENT IS REINSTALLED.
2. CAREFULLY REMOVE FASTENERS AND THE PERFORATED PAVER SECUREMENT. SALVAGE AND STORE PERFORATED PAVER SECUREMENT IN A MANNER FOR REINSTALLATION AFTER THE INSULATED PAVERS ARE INSTALLED.
3. REMOVE INSULATED PAVERS. SALVAGE AND STORE IN A MANNER FOR REINSTALLATION AFTER THE APPLICATION OF THE FLUID-APPLIED MEMBRANE SYSTEM.

3 RAKE ROOF EDGE

SCALE: 3" = 1'-0"



NOTE:
1. REMOVE THE EXISTING SHEET METAL CURB COVER. SALVAGE AND STORE IN A MANNER FOR REINSTALLATION AFTER THE INSTALLATION OF THE FLUID-APPLIED FLASHING MEMBRANE.

4 CAPPED CURB COVER

SCALE: 3" = 1'-0"

NOTES:
1. CAREFULLY REMOVE FASTENERS AND THE PERFORATED PAVER SECUREMENT. SALVAGE AND STORE THE PERFORATED PAVER SECUREMENT IN A MANNER FOR REINSTALLATION AFTER THE INSULATED PAVERS ARE INSTALLED.
2. REMOVE INSULATED PAVERS. SALVAGE AND STORE IN A MANNER FOR REINSTALLATION AFTER THE APPLICATION OF THE FLUID-APPLIED MEMBRANE SYSTEM.

5 GUTTER EDGE

SCALE: 3" = 1'-0"

6 PIPE PENETRATION

SCALE: 3" = 1'-0"

7 ROOF HATCH

SCALE: 3" = 1'-0"

NOTE:
1. REMOVE FASTENERS AND THE EXISTING SLIP FLASHING. SALVAGE AND STORE IN A MANNER FOR REINSTALLATION AFTER THE INSTALLATION OF THE FLUID-APPLIED FLASHING MEMBRANE.

8 EXISTING EQUIPMENT CURB

SCALE: 3" = 1'-0"

NOTE:
1. REMOVE AND SALVAGE THE INSULATED PAVERS. INSTALL THE FLUID-APPLIED MEMBRANE SYSTEM TO THE TOP OF THE CANT AT THE EXISTING MODIFIED BITUMEN FLASHING MEMBRANE. REINSTALL THE PAVERS AND SECURE AS SPECIFIED.

9 PARAPET WALL FLASHING

SCALE: 3" = 1'-0"

10 COPING SLIP FLASHING

SCALE: 3" = 1'-0"

11 METAL EDGE SLIP FLASHING

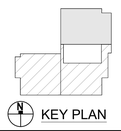
SCALE: 3" = 1'-0"

12 HVAC EQUIPMENT SLIP FLASHING

SCALE: 3" = 1'-0"

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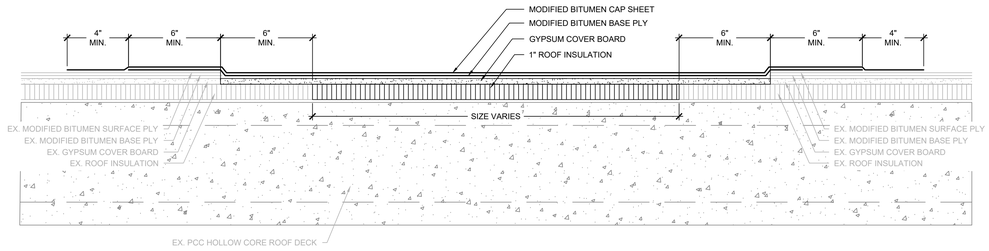
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DATE	DESCRIPTION

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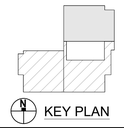


1 WET INSULATION REPLACEMENT

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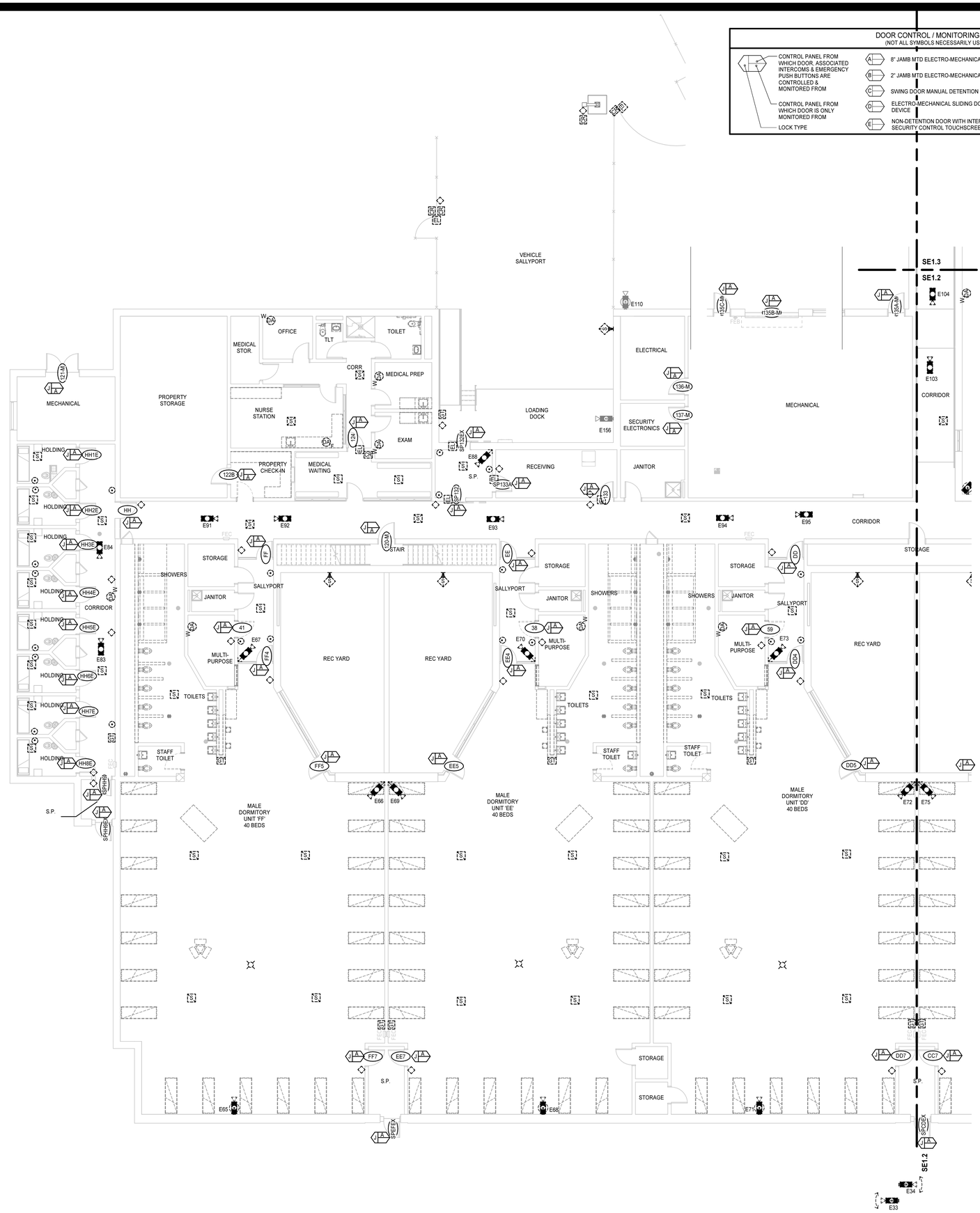
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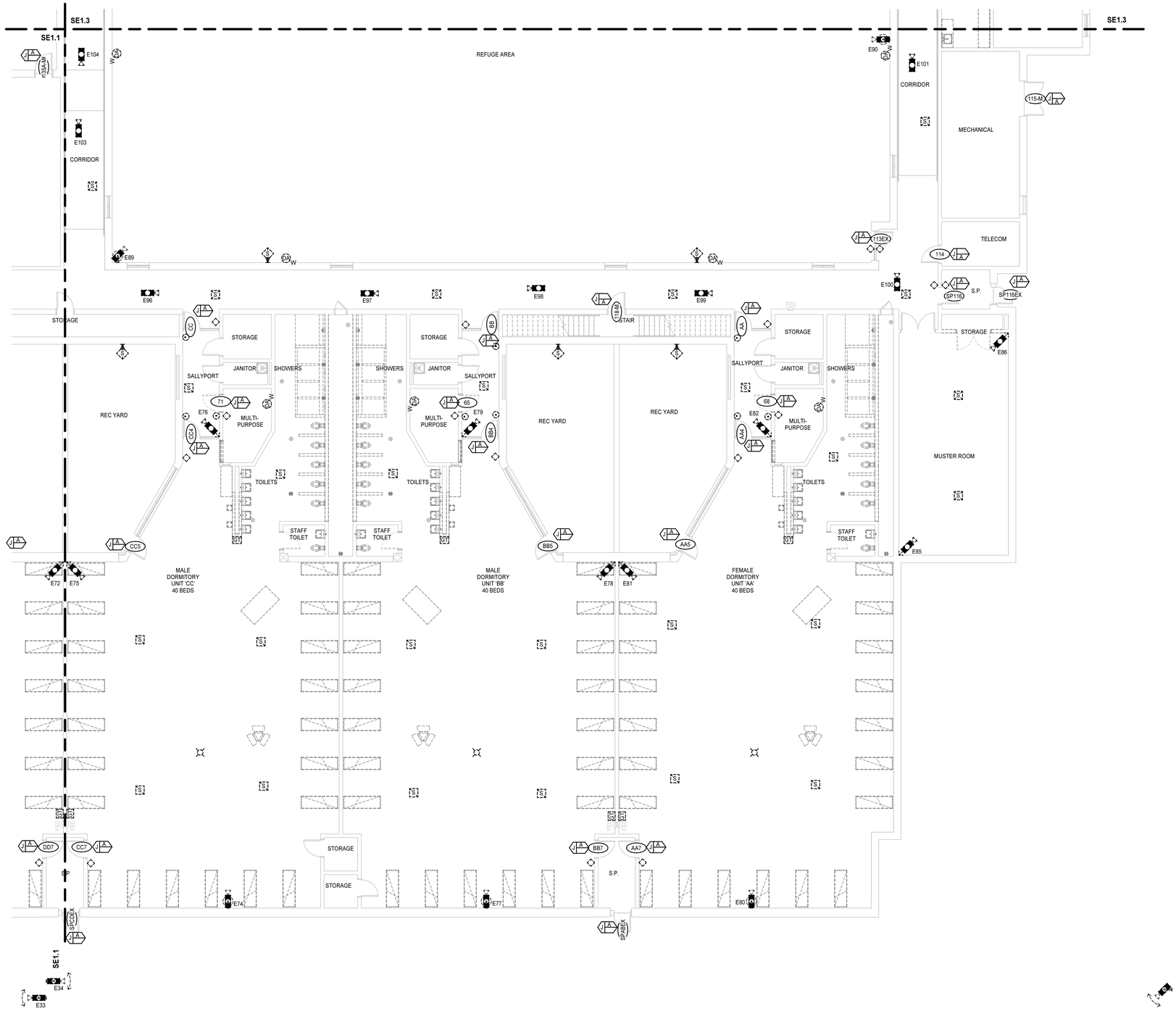
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SECURITY ELECTRONICS - DEMO PLAN - PART B

1/8" = 1'-0"

DOOR CONTROL / MONITORING LEGEND
(NOT ALL SYMBOLS NECESSARILY USED)

- CONTROL PANEL FROM WHICH DOOR, ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM
- CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM
- LOCK TYPE

A. 8" JAMB MTD ELECTRO-MECHANICAL LOCK
B. 2" JAMB MTD ELECTRO-MECHANICAL LOCK
C. SWING DOOR MANUAL DETENTION LOCK
D. ELECTRO-MECHANICAL SLIDING DOOR DEVICE
E. NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN
F. SWING DOOR INSTITUTIONAL MORTISE ELECTRIC LOCK
G. SWING OR SLIDING GATE W/ INTERFACING TO SECURITY CONTROL TOUCHSCREEN
H. SWING DOOR MANUAL LOCK
J. EXISTING LOCK

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 AND GREATER QUANTITY OF WORK.

B. ALL SECURITY DEVICES SHALL HOMERUN TO SECURITY ELECTRONICS HEAD END ROOM IN CONDUIT THE ENTIRE DISTANCE.

C. COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON THE FIELD CONDITIONS AND ACTUAL CAMERA MODELS BEING USED.

D. PROVIDE VANDAL RESISTANT COVER WITH SECURITY SCREWS ON ANY OPEN BOXES LEFT FROM DEMOED DEVICES.

SECURITY SYSTEMS LEGEND
(ALL SYMBOLS NOT NECESSARILY USED)

- WALL MOUNTED EQUIPMENT RACK/CABINET
- SECURITY EQUIPMENT RACK
- GB — GLASS BREAK (VIBRATION) SENSOR
- DA W — DURESS ALARM - WALL MTD (48" AFF)
- DA F — DURESS ALARM - FURNITURE MOUNTED- COORDINATE WITH FURNITURE PROVIDER
- MASTER INTERCOM
- INTERCOM WALL STATION (48" AFF TO BUTTON)
- INMATE EMERGENCY INTERCOM TO MAIN CONTROL (DOOR FRAME MOUNT 18" AFF)
- S — PAGING SPEAKER
- VIDEO INTERCOM MASTER
- VIDEO INTERCOM REMOTE
- MIC — MICROPHONE
- INTERVIEW LIGHT
- CALL BUTTON
- TALK THRU COMMUNICATOR
- TALK THRU UNIT
- M — VIDEO MONITOR
- 01 — CAMERA - FIXED
- 01 — CAMERA - PTZ
- 01 — CAMERA - MULTI-LENS (180°, 270°, 360°)
- CR — PROXIMITY CARD READER
- KP — CARD READER AND KEYPAD
- GT — GUARD TOUR
- PB — DOOR RELEASE PUSHBUTTON
- A B C — DOOR CONTROL / MONITORING REFER TO "DOOR CONTROL / MONITORING LEGEND"
- D101 D100 — DOOR INTERLOCK
- X — GRAPHICAL USER INTERFACE: A & B = CENTRAL CONTROL, X = EXISTING TO REMOVE
- X-RAY MACHINE
- METAL DETECTOR
- VIDEO VISITATION UNIT (NOT IN CONTRACT)

REFER TO SPEC SECTION 08 71 00

- DPS — DOOR POSITION SWITCH
- EL — ELECTRIC LOCK DEVICE WITH REQUEST TO EXIT (REX) AND DOOR POSITION SWITCH (DPS)
- RX — REQUEST TO EXIT DEVICE

KEYNOTES

APPLIES TO DRAWINGS SE1.0 - SE2.4
REPRESENTED BY n

1. PROVIDE LOOP DETECTORS AT VEHICLE GATES AND VEHICLE SALLYPORT. LOOPS FOR INGRESS SHALL FUNCTION AS AN INTERCOM CALL. LOOPS FOR EGRESS SHALL FUNCTION AS A CALL-IN BUTTON / REQUEST TO EXIT. PROGRAM SECURITY CONTROL SYSTEM TO IGNORE LOOP DETECTORS WHEN GATES ARE OPEN TO PREVENT A SECOND CALL-IN WHEN VEHICLE DRIVES THROUGH THE GATE OR DOOR.
2. PROVIDE MONITORING DEVICE FOR ROOF HATCH.
3. SECURITY EQUIPMENT TO BE PLACED IN CONSOLES.
4. SIMILAR. INSTALL STANCHION PER DETAIL 10/SES.1; IF EXISTING FIELD CONDITIONS OBSTRUCT, NOTIFY THE ARCHITECT.

KEY PLAN

MOSELEY ARCHITECTS
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10-14-2025
STEVEN J HOPKINS — REGISTERED ARCHITECT — 11547 — NORTH CAROLINA — CHARLOTTE, NC

MOSELEY ARCHITECTS, P.C. — REGISTERED ARCHITECTURAL CORPORATION — 50149 — NORTH CAROLINA — CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

SECURITY ELECTRONICS DEMOLITION PLAN - PART B

SE1.2

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DOOR CONTROL / MONITORING LEGEND
(NOT ALL SYMBOLS NECESSARILY USED)

- CONTROL PANEL FROM WHICH DOOR; ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM
- CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM
- LOCK TYPE

A	8" JAMB MTD ELECTRO-MECHANICAL LOCK	F	SWING DOOR INSTITUTIONAL MORTISE ELECTRIC LOCK
B	2" JAMB MTD ELECTRO-MECHANICAL LOCK	G	SWING OR SLIDING GATE W/ INTERFACING TO SECURITY CONTROL TOUCHSCREEN
C	SWING DOOR MANUAL DETENTION LOCK	H	SWING DOOR MANUAL LOCK
D	ELECTRO-MECHANICAL SLIDING DOOR DEVICE	J	EXISTING LOCK
E	NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN		

GENERAL NOTES

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B. ALL SECURITY DEVICES SHALL HOMERUN TO SECURITY ELECTRONICS HEAD END ROOM IN CONDUIT THE ENTIRE DISTANCE.

C. COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON THE FIELD CONDITIONS AND ACTUAL CAMERA MODELS BEING USED.

D. PROVIDE VANDAL RESISTANT COVER WITH SECURITY SCREWS ON ANY OPEN BOXES LEFT FROM DEMOED DEVICES.

SECURITY SYSTEMS LEGEND
(ALL SYMBOLS NOT NECESSARILY USED)

- WALL MOUNTED EQUIPMENT RACK/CABINET
- SECURITY EQUIPMENT RACK
- GB — GLASS BREAK (VIBRATION) SENSOR
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- DA F — DURESS ALARM - FURNITURE MOUNTED- COORDINATE WITH FURNITURE PROVIDER
- MASTER INTERCOM
- INTERCOM WALL STATION (48" AFF TO BUTTON)
- INMATE EMERGENCY INTERCOM TO MAIN CONTROL (DOOR FRAME MOUNT 18" AFF)
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- VIDEO INTERCOM MASTER
- VIDEO INTERCOM REMOTE
- MIC — MICROPHONE
- INTERVIEW LIGHT
- CALL BUTTON
- TALK THRU COMMUNICATOR
- TALK THRU UNIT
- M — VIDEO MONITOR
- 01 — CAMERA - FIXED
- 01 — CAMERA - PTZ
- 01 — CAMERA - MULTI-LENS (180°, 270°, 360°)
- CR — PROXIMITY CARD READER
- KP — CARD READER AND KEYPAD
- GT — GUARD TOUR
- PB — DOOR RELEASE PUSHBUTTON
- A / B / C — DOOR CONTROL / MONITORING REFER TO "DOOR CONTROL / MONITORING LEGEND"
- D101 / D100 — DOOR INTERLOCK
- X — GRAPHICAL USER INTERFACE: A & B = CENTRAL CONTROL X = EXISTING TO REMOVE
- X-RAY MACHINE
- METAL DETECTOR
- VIDEO VISITATION UNIT (NOT IN CONTRACT)

REFER TO SPEC SECTION 08 71 00

- DPS — DOOR POSITION SWITCH
- EL — ELECTRIC LOCK DEVICE WITH REQUEST TO EXIT (REX) AND DOOR POSITION SWITCH (DPS)
- RX — REQUEST TO EXIT DEVICE

KEYNOTES
APPLIES TO DRAWINGS SE1.0 - SE2.4
REPRESENTED BY [n]

1. PROVIDE LOOP DETECTORS AT VEHICLE GATES AND VEHICLE SALLYPORT. LOOPS FOR INGRESS SHALL FUNCTION AS AN INTERCOM CALL. LOOPS FOR EGRESS SHALL FUNCTION AS A CALL-IN BUTTON / REQUEST TO EXIT. PROGRAM SECURITY CONTROL SYSTEM TO IGNORE LOOP DETECTORS WHEN GATES ARE OPEN TO PREVENT A SECOND CALL-IN WHEN VEHICLE DRIVES THROUGH THE GATE OR DOOR.
2. PROVIDE MONITORING DEVICE FOR ROOF HATCH.
3. SECURITY EQUIPMENT TO BE PLACED IN CONSOLES.
4. SIMILAR. INSTALL STANCHION PER DETAIL 10/SE3.1; IF EXISTING FIELD CONDITIONS OBSTRUCT, NOTIFY THE ARCHITECT.

KITCHEN
CORRIDOR
SALLYPORT
LAUNDRY
UNUSED
HOLD
STORAGE
ELEC
CLOTHING STORAGE
MUSTER
JAN
STORAGE
SEC ELEC
CENTRAL CONTROL
SALLYPORT
LOBBY/ WAIT
WAIT/ PROCESSING
OFFICE
SUPERVISOR
CORR
I. VISIT
VISIT
COUNSELOR
CORR
OFFICE
OFFICE
VISIT
STAFF BREAKROOM
CORRIDOR
CORRIDOR
CORRIDOR
LOCKER AREA
OPEN OFFICE
TOILET
STORAGE
MEN
WOMEN
REFUGE AREA
CORR
SE1.1
SE1.2
SE1.2

SECURITY ELECTRONICS - DEMO PLAN - PART C
1/8" = 1'-0"

KEY PLAN

MOSELEY ARCHITECTS
6210 ARDREY KELL ROAD • THE HUB AT WAVERLY, SUITE 425 • CHARLOTTE, NC 28277
PHONE (704) 540-3755 FAX (704) 540-3754
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DETENTION ANNEX RENOVATION
3400 Hammond Road, Raleigh, NC 27603
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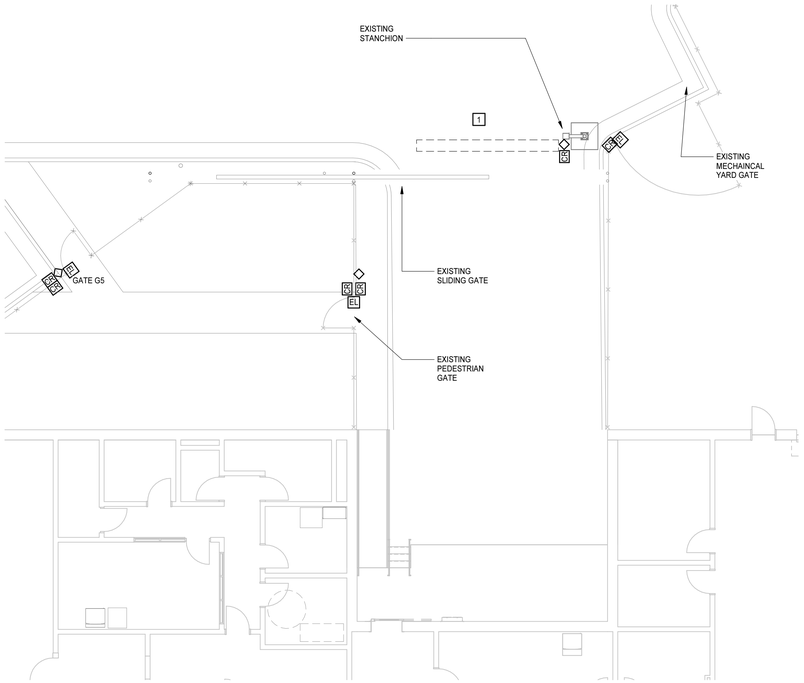
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DATE: OCTOBER 13, 2025

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DATE	DESCRIPTION

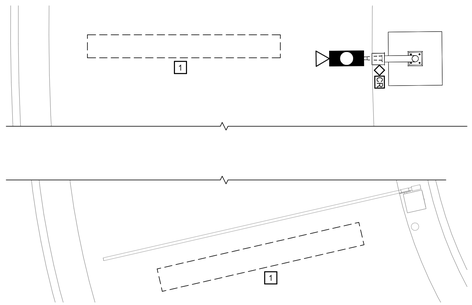
SECURITY ELECTRONICS DEMOLITION PLAN - PART C

SE1.3

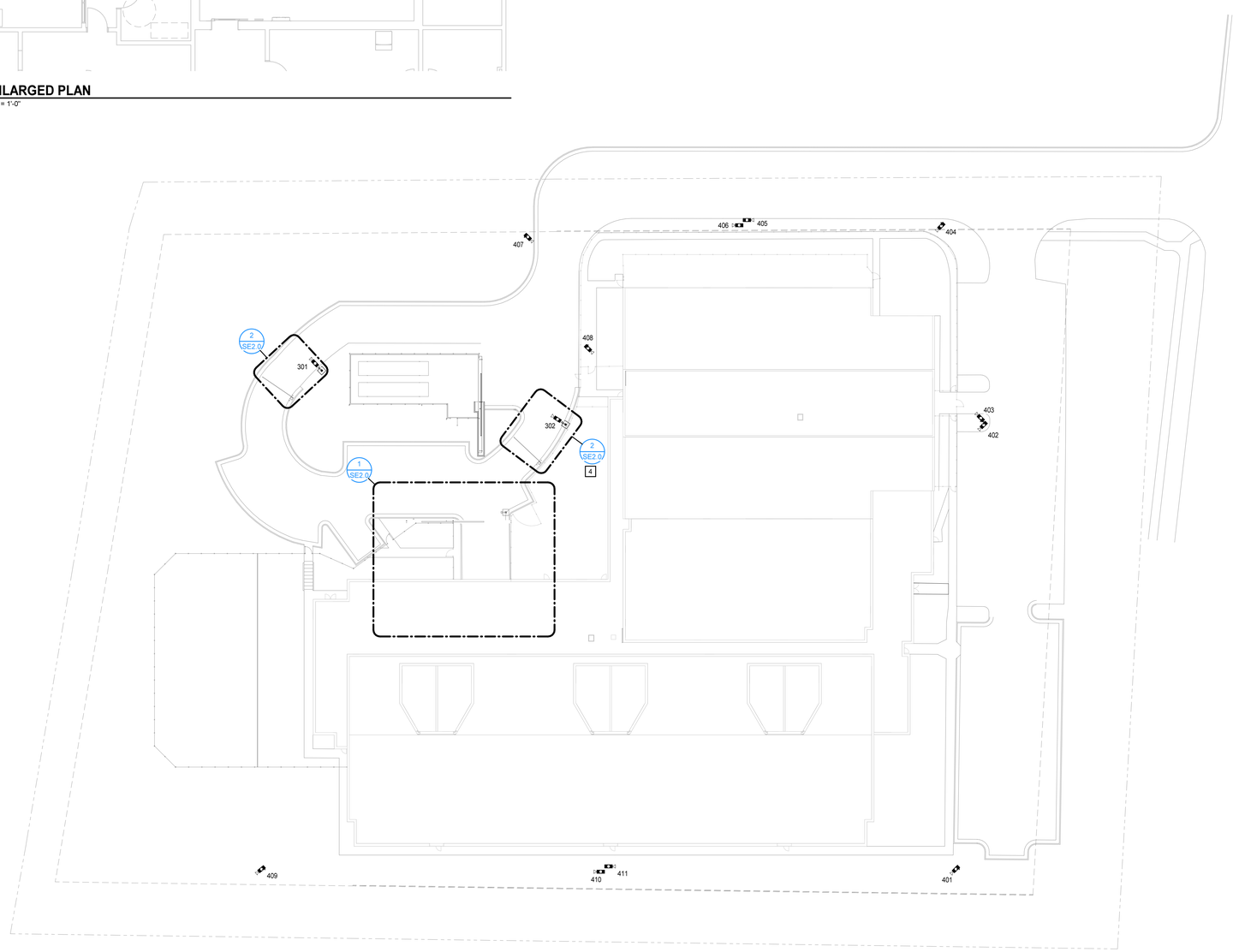
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1 ENLARGED PLAN
SE2.0 SE2.0 1/8" = 1'-0"



2 ENLARGED PLAN
TYP SE2.0 1/4" = 1'-0"



SECURITY ELECTRONICS SITE PLAN
1" = 30'-0"

DOOR CONTROL / MONITORING LEGEND
(NOT ALL SYMBOLS NECESSARILY USED)

- CONTROL PANEL FROM WHICH DOOR, ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM
- CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM
- LOCK TYPE

- A — 8" JAMB MTD ELECTRO-MECHANICAL LOCK
- B — 2" JAMB MTD ELECTRO-MECHANICAL LOCK
- C — SWING DOOR MANUAL DETENTION LOCK
- D — ELECTRO-MECHANICAL SLIDING DOOR DEVICE
- E — NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN
- F — SWING DOOR INSTITUTIONAL MORTISE ELECTRIC LOCK
- G — SWING OR SLIDING GATE W/ INTERFACING TO SECURITY CONTROL TOUCHSCREEN
- H — SWING DOOR MANUAL LOCK
- J — EXISTING LOCK

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 AND GREATER QUANTITY OF WORK.

B. ALL SECURITY DEVICES SHALL HOMERUN TO SECURITY ELECTRONICS HEAD END ROOM IN CONDUIT THE ENTIRE DISTANCE.

C. COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON THE FIELD CONDITIONS AND ACTUAL CAMERA MODELS BEING USED.

D. PROVIDE VANDAL RESISTANT COVER WITH SECURITY SCREWS ON ANY OPEN BOXES LEFT FROM DEMOED DEVICES.

SECURITY SYSTEMS LEGEND
(ALL SYMBOLS NOT NECESSARILY USED)

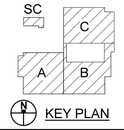
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- VIDEO INTERCOM REMOTE
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- INTERVIEW LIGHT
- CALL BUTTON
- TALK THRU COMMUNICATOR
- TALK THRU UNIT
- M — VIDEO MONITOR
- 01 — CAMERA - FIXED
- 01 — CAMERA - PTZ
- 01 — CAMERA - MULTI-LENS (180°, 270°, 360°)
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- X — GRAPHICAL USER INTERFACE: A & B = CENTRAL CONTROL X = EXISTING TO REMOVE
- X-RAY MACHINE
- METAL DETECTOR
- VIDEO VISITATION UNIT (NOT IN CONTRACT)

REFER TO SPEC SECTION 08 71 00

- DPS — DOOR POSITION SWITCH
- EL — ELECTRIC LOCK DEVICE WITH REQUEST TO EXIT (REX) AND DOOR POSITION SWITCH (DPS)
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KEYNOTES
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4. SIMILAR. INSTALL STANCHION PER DETAIL 10/SE3.1; IF EXISTING FIELD CONDITIONS OBSTRUCT, NOTIFY THE ARCHITECT.



KEY PLAN

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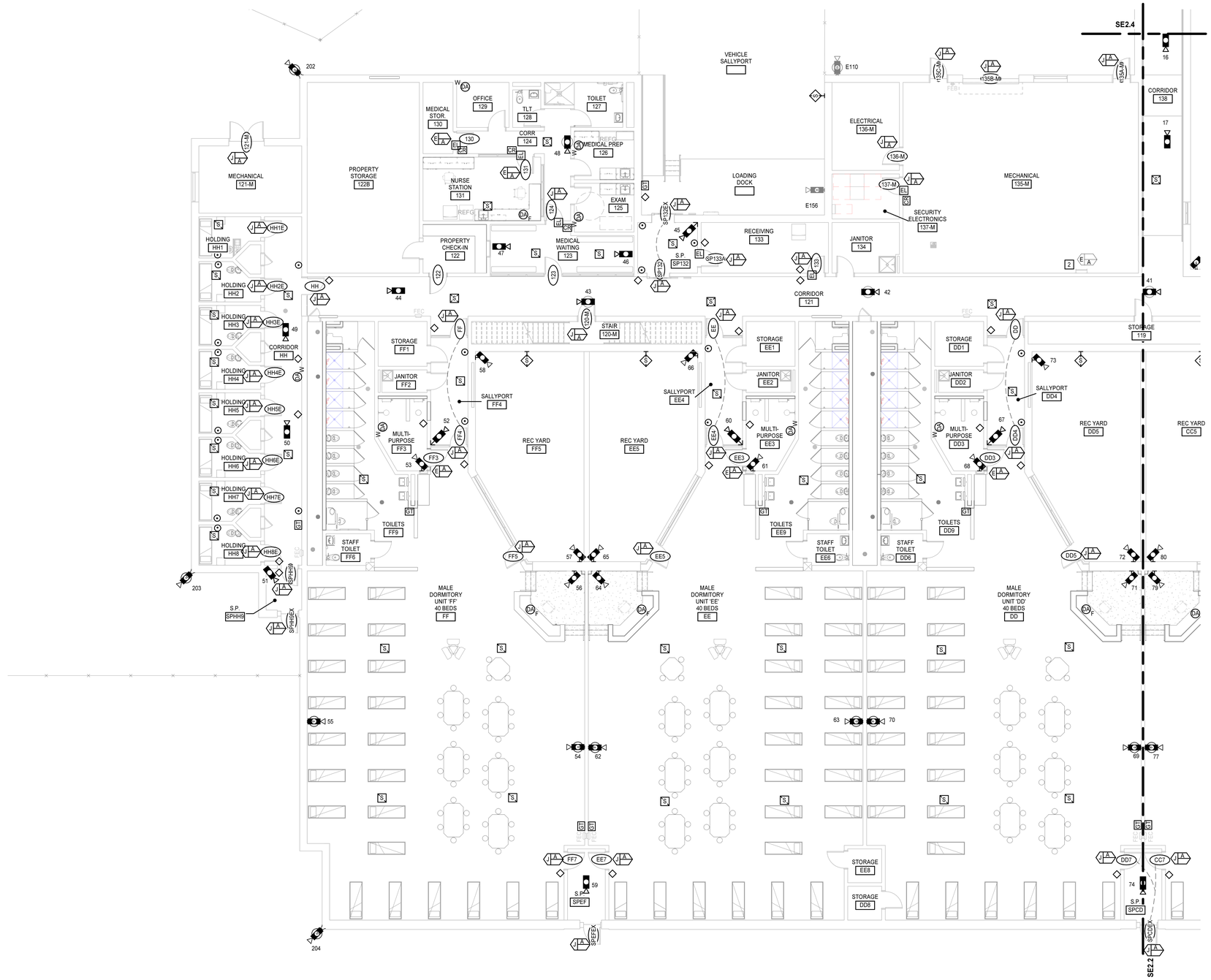
PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

SECURITY ELECTRONICS SITE PLAN

SE2.0

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SECURITY ELECTRONICS - FLOOR PLAN - PART A

1/8" = 1'-0"

DOOR CONTROL / MONITORING LEGEND

(NOT ALL SYMBOLS NECESSARILY USED)

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- CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM
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MOSELEYARCHITECTS.COM

10-14-2025
STEVEN J HOPKINS — REGISTERED ARCHITECT — 11547 — NORTH CAROLINA — CHARLOTTE, NC

MOSELEY ARCHITECTS PC — REGISTERED ARCHITECTURAL CORPORATION — 50149 — NORTH CAROLINA — CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

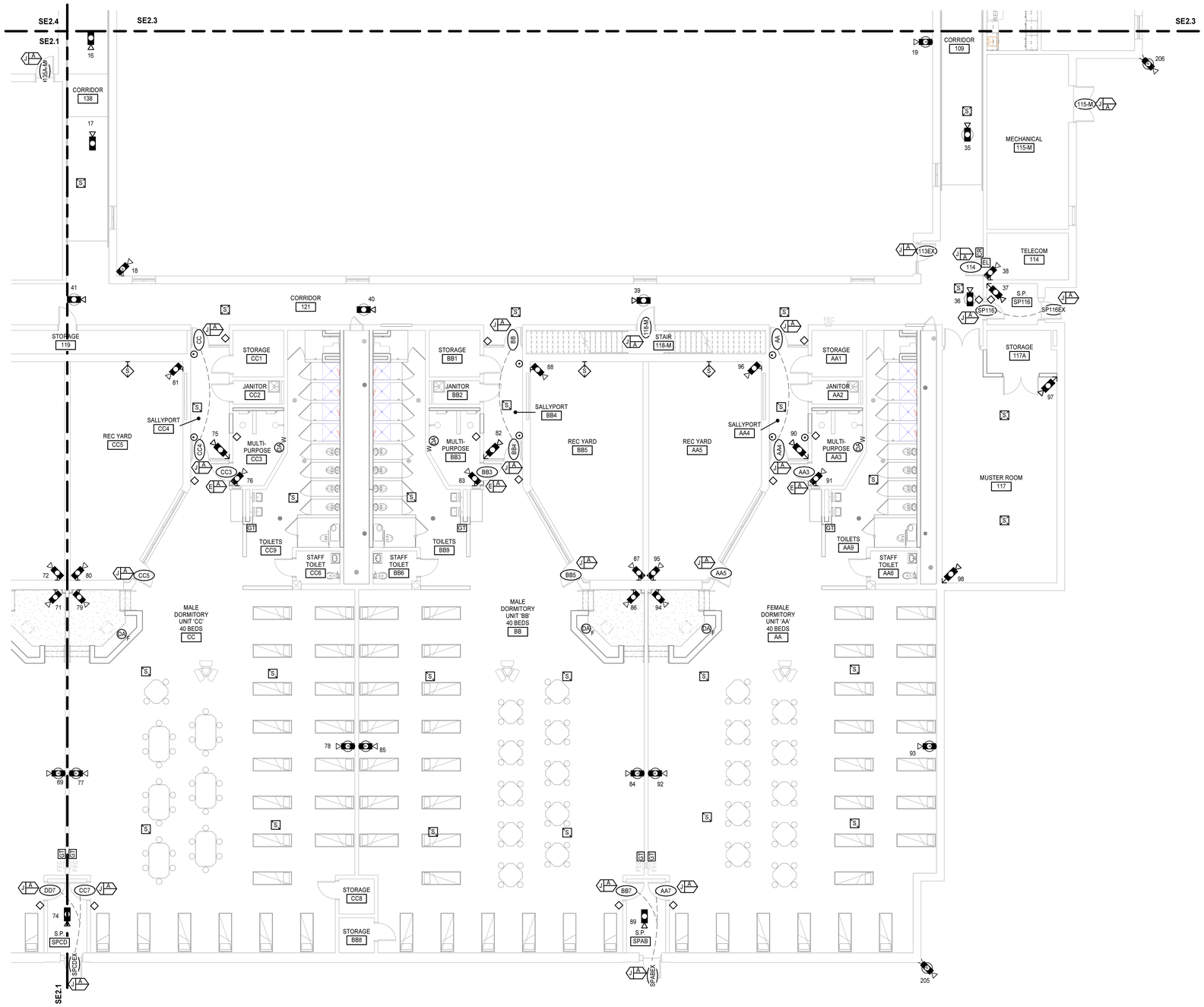
PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

SECURITY ELECTRONICS FLOOR PLAN - PART A

SE2.1

10/14/2025 9:57:35 AM



SECURITY ELECTRONICS - FLOOR PLAN - PART B

1/8" = 1'-0"

DOOR CONTROL / MONITORING LEGEND

(NOT ALL SYMBOLS NECESSARILY USED)

- CONTROL PANEL FROM WHICH DOOR, ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM
- CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM
- LOCK TYPE

- A — 8" JAMB MTD ELECTRO-MECHANICAL LOCK
- B — 2" JAMB MTD ELECTRO-MECHANICAL LOCK
- C — SWING DOOR MANUAL DETENTION LOCK
- D — ELECTRO-MECHANICAL SLIDING DOOR DEVICE
- E — NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN
- F — SWING DOOR INSTITUTIONAL MORTISE ELECTRIC LOCK
- G — SWING OR SLIDING GATE W/ INTERFACING TO SECURITY CONTROL TOUCHSCREEN
- H — SWING DOOR MANUAL LOCK
- J — EXISTING LOCK

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 AND GREATER QUANTITY OF WORK.

B. ALL SECURITY DEVICES SHALL HOMERUN TO SECURITY ELECTRONICS HEAD END ROOM IN CONDUIT THE ENTIRE DISTANCE.

C. COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON THE FIELD CONDITIONS AND ACTUAL CAMERA MODELS BEING USED.

D. PROVIDE VANDAL RESISTANT COVER WITH SECURITY SCREWS ON ANY OPEN BOXES LEFT FROM DEMOED DEVICES.

SECURITY SYSTEMS LEGEND

(ALL SYMBOLS NOT NECESSARILY USED)

- WALL MOUNTED EQUIPMENT RACK/CABINET
- SECURITY EQUIPMENT RACK
- GB — GLASS BREAK (VIBRATION) SENSOR
- DA W — DURESS ALARM - WALL MTD (48" AFF)
- DA F — DURESS ALARM - FURNITURE MOUNTED- COORDINATE WITH FURNITURE PROVIDER
- MASTER INTERCOM
- INTERCOM WALL STATION (48" AFF TO BUTTON)
- INMATE EMERGENCY INTERCOM TO MAIN CONTROL (DOOR FRAME MOUNT 18" AFF)
- S — PAGING SPEAKER
- VIDEO INTERCOM MASTER
- VIDEO INTERCOM REMOTE
- MIC — MICROPHONE
- INTERVIEW LIGHT
- CALL BUTTON
- TALK THRU COMMUNICATOR
- TALK THRU UNIT
- M — VIDEO MONITOR
- 01 — CAMERA - FIXED
- 01 — CAMERA - PTZ
- 01 — CAMERA - MULTI-LENS (180°, 270°, 360°)
- CR — PROXIMITY CARD READER
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- A / B C — DOOR CONTROL / MONITORING REFER TO "DOOR CONTROL / MONITORING LEGEND"
- D101 D100 — DOOR INTERLOCK
- X — GRAPHICAL USER INTERFACE: A & B = CENTRAL CONTROL X = EXISTING TO REMOVE
- X-RAY MACHINE
- METAL DETECTOR
- VIDEO VISITATION UNIT (NOT IN CONTRACT)

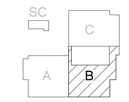
REFER TO SPEC SECTION 08 71 00

- DPS — DOOR POSITION SWITCH
- EL — ELECTRIC LOCK DEVICE WITH REQUEST TO EXIT (REX) AND DOOR POSITION SWITCH (DPS)
- RX — REQUEST TO EXIT DEVICE

KEYNOTES

APPLIES TO DRAWINGS SE1.0 - SE2.4
REPRESENTED BY: n

1. PROVIDE LOOP DETECTORS AT VEHICLE GATES AND VEHICLE SALLYPORT. LOOPS FOR INGRESS SHALL FUNCTION AS AN INTERCOM CALL. LOOPS FOR EGRESS SHALL FUNCTION AS A CALL-IN BUTTON / REQUEST TO EXIT. PROGRAM SECURITY CONTROL SYSTEM TO IGNORE LOOP DETECTORS WHEN GATES ARE OPEN TO PREVENT A SECOND CALL-IN WHEN VEHICLE DRIVES THROUGH THE GATE OR DOOR.
2. PROVIDE MONITORING DEVICE FOR ROOF HATCH.
3. SECURITY EQUIPMENT TO BE PLACED IN CONSOLES.
4. SIMILAR. INSTALL STANCHION PER DETAIL 10/SE3.1; IF EXISTING FIELD CONDITIONS OBSTRUCT, NOTIFY THE ARCHITECT.



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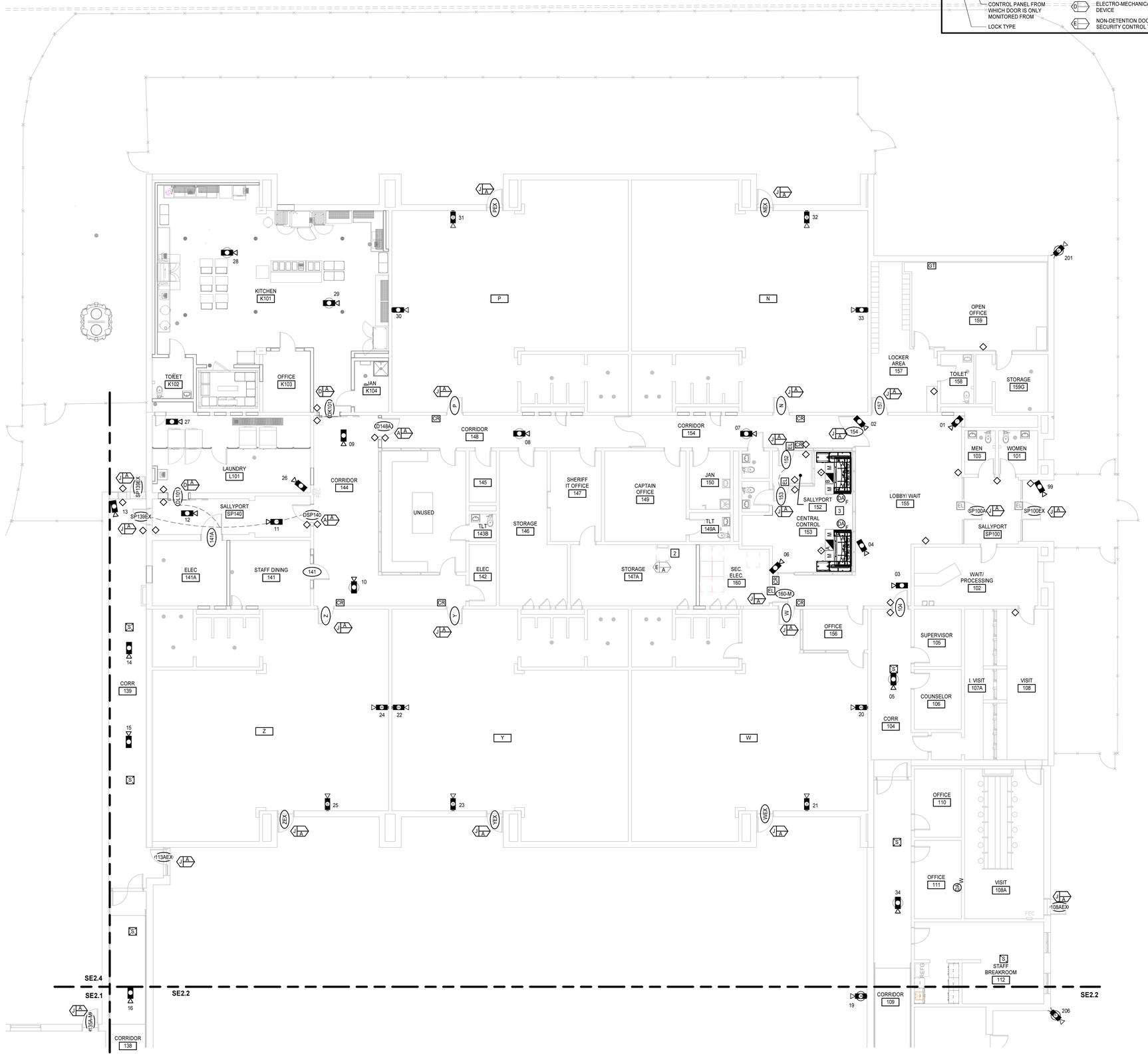
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REVISIONS	
DATE	DESCRIPTION

SECURITY ELECTRONICS FLOOR PLAN - PART B

SE2.2

10/14/2025 9:57:42 AM



SECURITY ELECTRONICS - FLOOR PLAN - PART C

1/8" = 1'-0"

DOOR CONTROL / MONITORING LEGEND

(NOT ALL SYMBOLS NECESSARILY USED)

- CONTROL PANEL FROM WHICH DOOR, ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM
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REFER TO SPEC SECTION 08 71 00

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KEY PLAN

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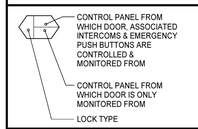
REVISIONS	
DATE	DESCRIPTION

SECURITY ELECTRONICS FLOOR PLAN - PART C

SE2.3

10/14/2025 9:57:47 AM

DOOR CONTROL / MONITORING LEGEND
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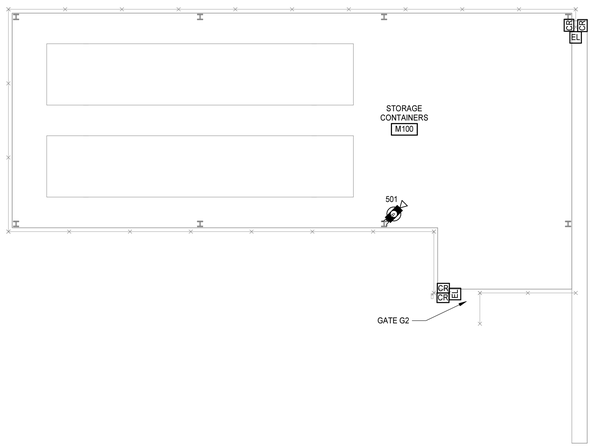
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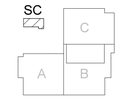
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SECURITY ELECTRONICS - FLOOR PLAN - STORAGE CONTAINER AREA
1/8" = 1'-0"

KEYNOTES
APPLIES TO DRAWINGS SE1.0 - SE2.4
REPRESENTED BY n

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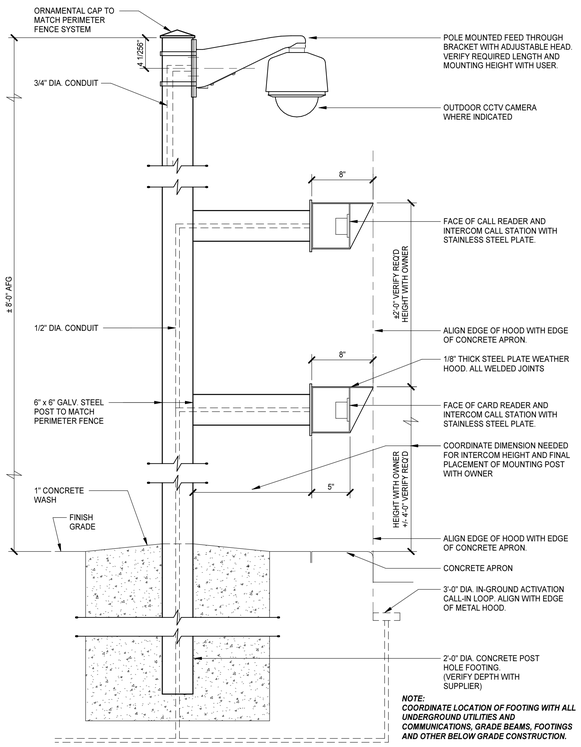
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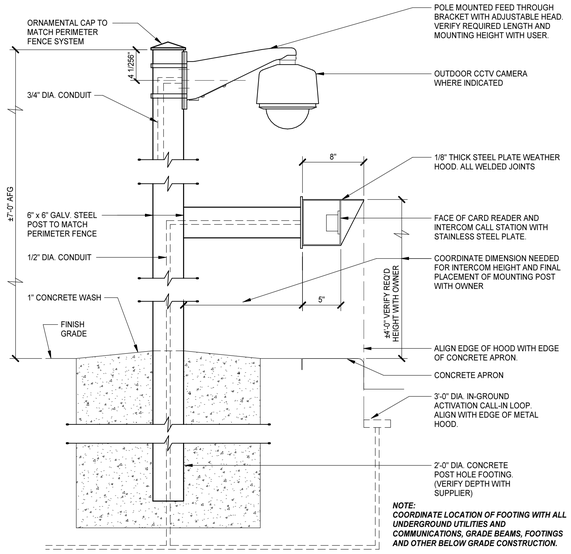
SECURITY ELECTRONICS FLOOR PLAN - STORAGE CONTAINER AREA

SE2.4

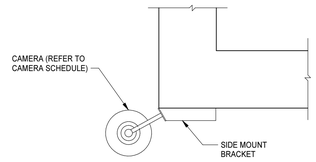
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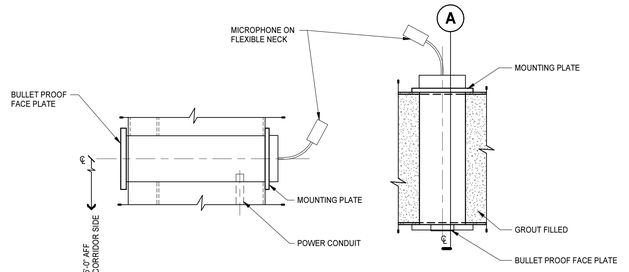
10 DRIVE-UP INTERCOM (DUAL) W/ CAMERA
SE3.1 — 1 1/2" = 1'-0"



9 DRIVE-UP INTERCOM W/ CAMERA
SE3.1 — 1 1/2" = 1'-0"

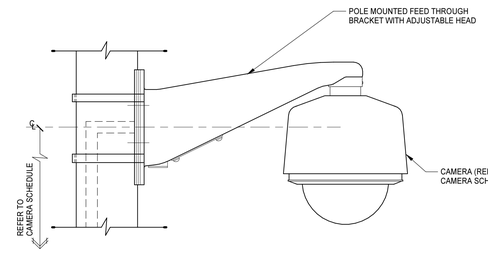


8 EXT CORNER WALL MOUNTED DOME CAMERA
SE3.1 — 3/4" = 1'-0"

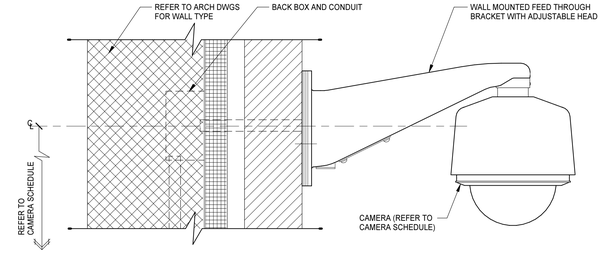


SECTION "A" **INMATE SIDE**

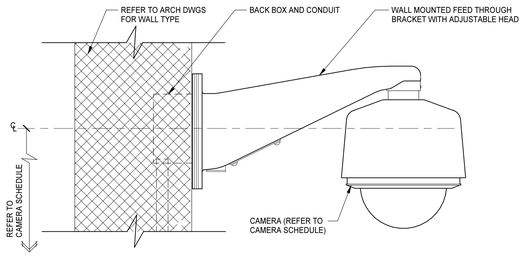
11 TALK THRU-COMMUNICATOR (TCC)
SE3.1 — 3" = 1'-0"



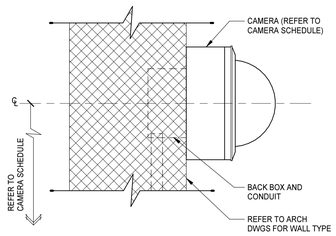
7 POLE MOUNTED CAMERA
SE3.1 — 3" = 1'-0"



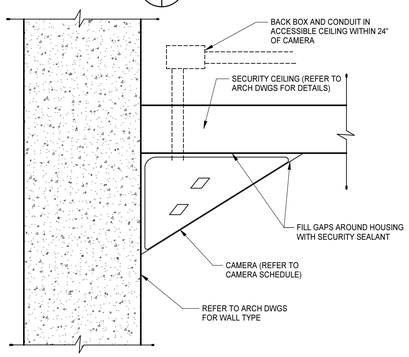
6 EXT WALL MOUNTED DOME CAMERA
SE3.1 — 3" = 1'-0"



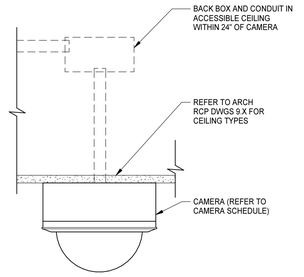
5 INT WALL MOUNTED DOME CAMERA
SE3.1 — 3" = 1'-0"



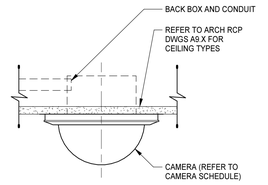
4 WALL SURFACE MOUNTED CAMERA
SE3.1 — 3" = 1'-0"



3 CEILING CORNER MOUNT CAMERA
SE3.1 — 3" = 1'-0"



2 CEILING SURFACE MOUNTED CAMERA
SE3.1 — 3" = 1'-0"



1 CEILING RECESSED MOUNTED CAMERA
SE3.1 — 3" = 1'-0"

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CAMERA DETAILS

SE3.1

10/14/2025 9:57:48 AM

SECURITY - CAMERA SCHEDULE - EXISTING

CAMERA NO.	CAMERA TYPE	MOUNTING TYPE	MOUNTING HEIGHT	MOUNTING DETAIL	NOTES
E01	FIXED	EXISTING	EXISTING	EXISTING	
E02	FIXED	EXISTING	EXISTING	EXISTING	
E05	FIXED	EXISTING	EXISTING	EXISTING	
E06	FIXED	EXISTING	EXISTING	EXISTING	
E07	FIXED	EXISTING	EXISTING	EXISTING	
E08	FIXED	EXISTING	EXISTING	EXISTING	
E09	FIXED	EXISTING	EXISTING	EXISTING	
E10	FIXED	EXISTING	EXISTING	EXISTING	
E11	FIXED	EXISTING	EXISTING	EXISTING	
E12	FIXED	EXISTING	EXISTING	EXISTING	
E14	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E15	FIXED	EXISTING	EXISTING	EXISTING	
E16	FIXED	EXISTING	EXISTING	EXISTING	
E17	FIXED	EXISTING	EXISTING	EXISTING	
E18	FIXED	EXISTING	EXISTING	EXISTING	
E19	FIXED	EXISTING	EXISTING	EXISTING	
E20	FIXED	EXISTING	EXISTING	EXISTING	
E23	FIXED	EXISTING	EXISTING	EXISTING	
E24	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E25	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E26	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E27	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E28	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E29	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E30	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E32	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E33	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E34	PTZ	EXISTING	EXISTING	EXISTING	SITE CAM ON POLE
E35	FIXED	EXISTING	EXISTING	EXISTING	
E36	FIXED	EXISTING	EXISTING	EXISTING	
E65	MULTI-LENS	EXISTING	EXISTING	EXISTING	
E66	FIXED	EXISTING	EXISTING	EXISTING	
E67	FIXED	EXISTING	EXISTING	EXISTING	
E68	MULTI-LENS	EXISTING	EXISTING	EXISTING	
E69	FIXED	EXISTING	EXISTING	EXISTING	
E70	FIXED	EXISTING	EXISTING	EXISTING	
E71	MULTI-LENS	EXISTING	EXISTING	EXISTING	
E72	FIXED	EXISTING	EXISTING	EXISTING	
E73	FIXED	EXISTING	EXISTING	EXISTING	
E74	MULTI-LENS	EXISTING	EXISTING	EXISTING	
E75	FIXED	EXISTING	EXISTING	EXISTING	
E76	FIXED	EXISTING	EXISTING	EXISTING	
E77	MULTI-LENS	EXISTING	EXISTING	EXISTING	
E78	FIXED	EXISTING	EXISTING	EXISTING	
E79	FIXED	EXISTING	EXISTING	EXISTING	
E80	MULTI-LENS	EXISTING	EXISTING	EXISTING	
E81	FIXED	EXISTING	EXISTING	EXISTING	
E82	FIXED	EXISTING	EXISTING	EXISTING	
E83	FIXED	EXISTING	EXISTING	EXISTING	
E84	FIXED	EXISTING	EXISTING	EXISTING	
E85	FIXED	EXISTING	EXISTING	EXISTING	
E86	FIXED	EXISTING	EXISTING	EXISTING	
E88	FIXED	EXISTING	EXISTING	EXISTING	
E89	MULTI-LENS	EXISTING	EXISTING	EXISTING	
E90	MULTI-LENS	EXISTING	EXISTING	EXISTING	
E91	FIXED	EXISTING	EXISTING	EXISTING	
E92	FIXED	EXISTING	EXISTING	EXISTING	
E93	FIXED	EXISTING	EXISTING	EXISTING	
E94	FIXED	EXISTING	EXISTING	EXISTING	
E95	FIXED	EXISTING	EXISTING	EXISTING	
E96	FIXED	EXISTING	EXISTING	EXISTING	
E97	FIXED	EXISTING	EXISTING	EXISTING	
E98	FIXED	EXISTING	EXISTING	EXISTING	
E99	FIXED	EXISTING	EXISTING	EXISTING	
E100	FIXED	EXISTING	EXISTING	EXISTING	
E101	FIXED	EXISTING	EXISTING	EXISTING	
E102	FIXED	EXISTING	EXISTING	EXISTING	
E103	FIXED	EXISTING	EXISTING	EXISTING	
E104	FIXED	EXISTING	EXISTING	EXISTING	
E105	FIXED	EXISTING	EXISTING	EXISTING	
E106	FIXED	EXISTING	EXISTING	EXISTING	
E107	FIXED	EXISTING	EXISTING	EXISTING	
E108	FIXED	EXISTING	EXISTING	EXISTING	
E110	MULTI-LENS 180°	EXISTING	EXISTING	EXISTING	ETR
E156	FIXED	EXISTING	EXISTING	EXISTING	ETR
E313	FIXED	EXISTING	EXISTING	EXISTING	

COUNT: 76

SECURITY - CAMERA SCHEDULE

CAMERA NO.	CAMERA TYPE	MOUNTING TYPE	MOUNTING HEIGHT	MOUNTING DETAIL	NOTES
01	FIXED	SURFACE	CEILING	2/SE3.1	
02	FIXED	SURFACE	CEILING	2/SE3.1	
03	FIXED	SURFACE	CEILING	2/SE3.1	
04	FIXED	SURFACE	CEILING	2/SE3.1	
05	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
06	FIXED	SURFACE	CEILING	2/SE3.1	
07	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
08	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
09	FIXED	SURFACE	CEILING	2/SE3.1	
10	DUAL LENS - 90°	SURFACE	CEILING	2/SE3.1	
11	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 108
12	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 313
13	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 107
14	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 106
15	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 105
16	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 104
17	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 103
18	FIXED	SURFACE	EXISTING	6/SE3.1	REPLACES EXISTING 89
19	MULTI-LENS 180°	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 90
20	FIXED	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 20
21	FIXED	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 19
22	FIXED	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 17
23	FIXED	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 18
24	FIXED	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 16
25	FIXED	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 15
26	FIXED	SURFACE	CEILING	2/SE3.1	WIDE ANGLE
27	FIXED	SURFACE	CEILING	2/SE3.1	
28	MULTI-LENS - 360°	SURFACE	CEILING	2/SE3.1	
29	MULTI-LENS - 360°	SURFACE	CEILING	2/SE3.1	
30	FIXED	SURFACE	EXISTING	4/SE3.1	REPLACES EXISTING 09
31	FIXED	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 08
32	FIXED	SURFACE	EXISTING	5/SE3.1	REPLACES EXISTING 06
33	FIXED	SURFACE	EXISTING	4/SE3.1	REPLACES EXISTING 05
34	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
35	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
36	DUAL LENS - 90°	SURFACE	CEILING	2/SE3.1	
37	FIXED	CORNER	CEILING	3/SE3.1	
38	FIXED	SURFACE	8'-0"	4/SE3.1	WIDE ANGLE
39	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
40	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
41	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
42	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
43	DUAL LENS - 180°	SURFACE	CEILING	2/SE3.1	
44	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 91
45	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 88
46	FIXED	SURFACE	CEILING	2/SE3.1	
47	FIXED	SURFACE	CEILING	2/SE3.1	
48	DUAL LENS - 90°	SURFACE	CEILING	2/SE3.1	
49	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 84
50	FIXED	SURFACE	CEILING	2/SE3.1	REPLACES EXISTING 83
51	FIXED	SURFACE	CEILING	2/SE3.1	
52	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 67
53	FIXED	SURFACE	8'-0"	4/SE3.1	
54	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
55	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
56	FIXED	SURFACE	12'-0"	4/SE3.1	REPLACES EXISTING 66
57	FIXED	SURFACE	12'-0"	4/SE3.1	
58	FIXED	SURFACE	12'-0"	4/SE3.1	
59	FISHEYE	SURFACE	CEILING	2/SE3.1	
60	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 70
61	FIXED	SURFACE	8'-0"	4/SE3.1	
62	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
63	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
64	FIXED	SURFACE	12'-0"	4/SE3.1	REPLACES EXISTING 69
65	FIXED	SURFACE	12'-0"	4/SE3.1	
66	FIXED	SURFACE	12'-0"	4/SE3.1	
67	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 73
68	FIXED	SURFACE	8'-0"	4/SE3.1	
69	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
70	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
71	FIXED	SURFACE	12'-0"	4/SE3.1	REPLACES EXISTING 72
72	FIXED	SURFACE	12'-0"	4/SE3.1	
73	FIXED	SURFACE	12'-0"	4/SE3.1	
74	FISHEYE	SURFACE	CEILING	2/SE3.1	
75	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 76
76	FIXED	SURFACE	8'-0"	4/SE3.1	
77	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
78	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
79	FIXED	SURFACE	12'-0"	4/SE3.1	REPLACES EXISTING 75
80	FIXED	SURFACE	12'-0"	4/SE3.1	
81	FIXED	SURFACE	12'-0"	4/SE3.1	
82	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 79
83	FIXED	SURFACE	8'-0"	4/SE3.1	
84	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
85	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
86	FIXED	SURFACE	12'-0"	4/SE3.1	REPLACES EXISTING 78
87	FIXED	SURFACE	12'-0"	4/SE3.1	
88	FIXED	SURFACE	12'-0"	4/SE3.1	
89	FISHEYE	SURFACE	CEILING	2/SE3.1	
90	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 82
91	FIXED	SURFACE	8'-0"	4/SE3.1	
92	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
93	MULTI-LENS 180°	SURFACE	15'-0"	5/SE3.1	
94	FIXED	SURFACE	12'-0"	4/SE3.1	REPLACES EXISTING 81
95	FIXED	SURFACE	12'-0"	4/SE3.1	
96	FIXED	SURFACE	12'-0"	4/SE3.1	
97	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 86
98	FIXED	CORNER	EXISTING	3/SE3.1	REPLACES EXISTING 85
99	FIXED	SURFACE	CEILING	2/SE3.1	
201	MULTI-LENS 180°	SURFACE	12'-0"	8/SE3.1	
202	MULTI-LENS 180°	SURFACE	12'-0"	8/SE3.1	
203	MULTI-LENS 180°	SURFACE	12'-0"	8/SE3.1	
204	MULTI-LENS 180°	SURFACE	12'-0"	8/SE3.1	
205	MULTI-LENS 180°	SURFACE	12'-0"	8/SE3.1	
206	MULTI-LENS 180°	SURFACE	12'-0"	8/SE3.1	
301	FIXED	POLE	8'-0"	7/SE3.1	CAMERA @ STANCHION
302	FIXED	POLE	8'-0"	7/SE3.1	CAMERA @ STANCHION
303	FIXED	POLE	8'-0"	7/SE3.1	CAMERA @ STANCHION
401	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
402	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
403	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
404	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
405	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
406	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
407	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
408	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
409	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
410	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
411	PTZ	SURFACE	15'-0"	7/SE3.1	SITE CAM ON POLE
501	MULTI-LENS 180°	SURFACE	12'-0"	8/SE3.1	CORPORATE

COUNT: 120

MOSELEYARCHITECTS
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10-14-2025

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50149
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CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

CAMERA SCHEDULE

SE3.2

10/14/2025 9:57:48 AM

KEYNOTES

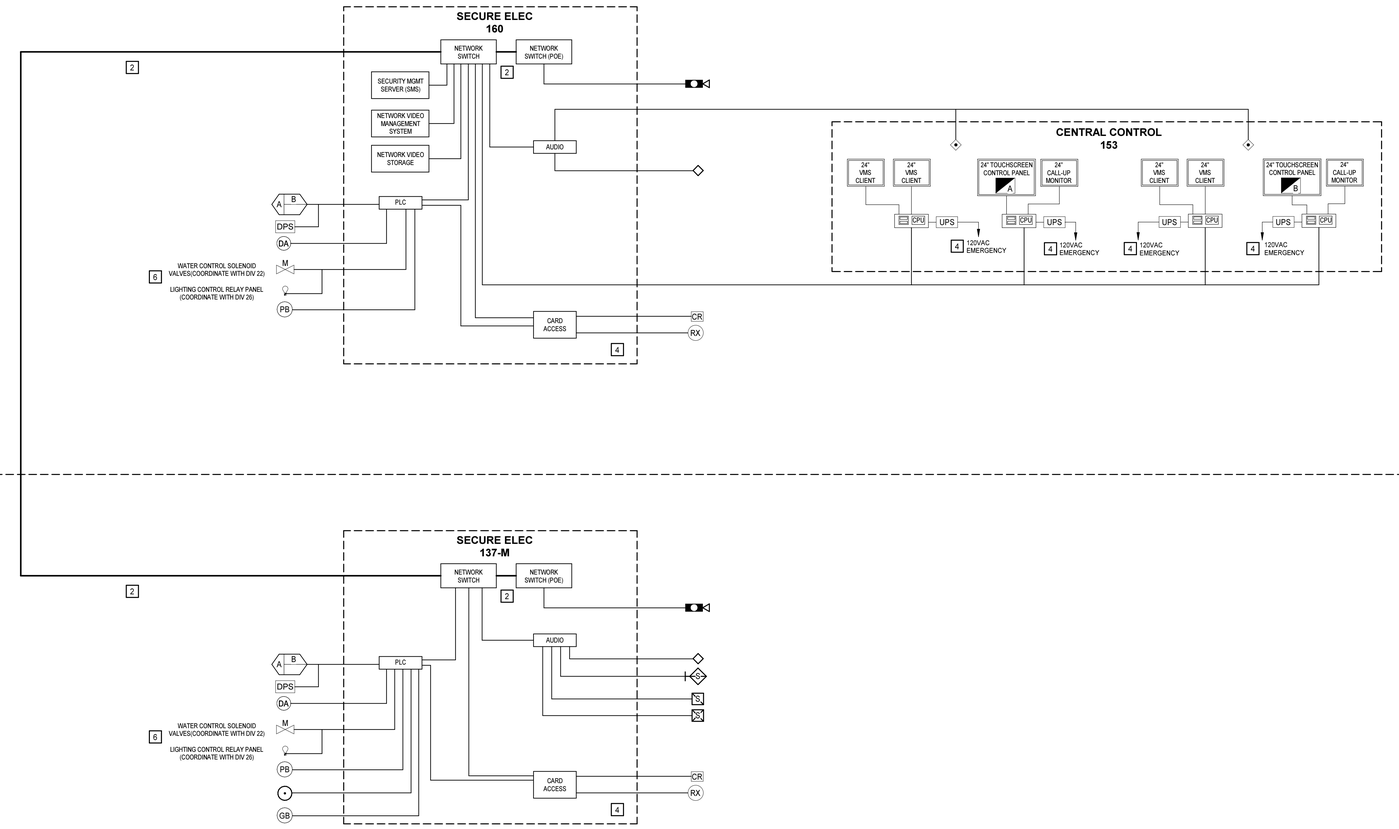
APPLIES TO SINGLE LINE DIAGRAM
REPRESENTED BY [n]

1. EXTERIOR POLE MOUNTED CAMERAS/INTERCOM SHALL USE FIBER OPTIC CABLE FOR VIDEO, AUDIO, AND DATA TRANSMISSION.
2. ALL FIBER OPTIC CABLING FOR SECURITY NETWORK. CATEGORY 6 CABLING FOR CAMERAS, AND SECURITY SERVERS/WORKSTATIONS SHALL BE INSTALLED, TERMINATED, AND TESTED PRIOR TO USE. PROVIDE FIBER BACKBONE FOR NETWORK INFRASTRUCTURE.
3. PROVIDE SMS SERVER IN SECURITY EQUIPMENT ROOM. CONNECT TO KVM IN RACK FOR CCTV SERVERS.
4. ALL POWER TO SECURITY HEADEND EQUIPMENT AND ASSOCIATED FIELD COMPONENTS SHALL BE CONNECTED TO EMERGENCY / GENERATOR POWER (THROUGH AN SCSC PROVIDED UPS).
5. PROVIDE A SECOND NETWORK CARD ON ALL CCTV SERVERS AND SMS/ACS SERVER FOR USE BY THE COUNTY.
6. PROVIDE CAPABILITY TO CUT OFF WATER AND LIGHTING VIA TOUCHSCREEN.
7. ALARMS FOR TOUCHSCREEN "F" SHALL BE SENT TO OWNER PREFERRED CALL CENTER WHEN TOUCHSCREEN "F" IS NOT LOGGED IN. ALARMS ARE NOT TO GO TO JAIL CENTRAL CONTROL.
8. PROVIDE ALARM DIALER THAT INTEGRATES PLC WITH TELCO LINE IN DATA ROOM TO CALL IN ALARMS WHEN TOUCHSCREEN "F" IS NOT LOGGED IN. TOUCHSCREEN SHALL BE CONNECTED TO THE JAIL SECURITY SYSTEM BUT SHALL BE PROGRAMMED TO FUNCTION AS STAND ALONE. EXACT PROGRAMMING NEEDS TO BE DECIDED DURING TOUCHSCREEN PHASE MEETINGS. COORDINATE TELCO CONNECTION.
9. PROVIDE SPARE 1" CONDUIT FROM EQUIPMENT ROOM TO ROOF FOR FUTURE DRONE DETECTION SYSTEM.

GENERAL NOTES

A. SECURITY CONTROL SYSTEM CABLING AND WIRING INDICATED IS DIAGRAMMATIC ONLY. IT IS INTENDED TO SHOW PROPOSED LOCATIONS OF MAJOR COMPONENTS OF THE SECURITY CONTROL SYSTEM AND THEIR INTERCONNECTION.

B. NO CONDUIT SIZES OR QUANTITIES NOR CONDUCTOR TYPES OR QUANTITIES ARE INDICATED. THE SECURITY CONTROL SYSTEM CONTRACTOR'S (SCSC) INDIVIDUAL CONTROL SOLUTION WILL DETERMINE THE EXACT CONDUIT AND CONDUCTOR REQUIREMENTS. REFER TO DRAWINGS FOR QUANTITIES AND LOCATIONS OF INDIVIDUAL SECURITY CONTROL SYSTEM EQUIPMENT AND DEVICES. REFER TO DIVISION 26 ELECTRICAL FOR POWER.



PART C

PARTS A & B

PART C

PARTS A & B

1 SE4.0 **SECURITY TYPICAL ONE-LINE DIAGRAM**
1/8" = 1'-0"

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10-14-2025

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

SECURITY ELECTRONICS ONE LINE DIAGRAMS

SE4.0

10/14/2025 9:57:49 AM

KITCHEN
K101
1,562 SF

TOILET
K102
65 SF

WALK-IN COOLER

OFFICE
K103
112 SF

JAN
K104
67 SF

MOP SINK BY P.C.

P
1,917 SF

CONDENSING UNIT LOCATED ON ROOF. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS.

LAUNDRY
L101
471 SF

SALLYPORT
SP140
228 SF

CORRIDOR
144
576 SF

CORRIDOR
148
306 SF

STORAGE
143
392 SF

145
54 SF

TLT
143B
28 SF

STORAGE
146
331 SF

SHERIFF IT OFFICE
147
177 SF

CAPTAIN OFFICE
149
284 SF

ELEC
142
64 SF

STORAGE
147A
296 SF

CORR
139
580 SF

ELEC
141A
187 SF

STAFF DINING
141
203 SF

FEB

FEC

1 FOODSERVICE EQUIPMENT PLAN
FS.01 1/4" = 1'-0"

KEY PLAN

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FOR BID

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

FOODSERVICE EQUIPMENT PLAN

FS.01

10/10/2025 2:44:58 PM

FOODSERVICE EQUIPMENT SCHEDULE

QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	ITEM	ELECTRICAL							PLUMBING							GAS				REMARKS
						ELECTRICAL A.F.F.	KW	HP	AMPS	VOLTS	PHASE	NEMA	HW SIZE	HW/A.F.F.	CW SIZE	CW/A.F.F.	IW	DRAIN TYPE	DW	DW A.F.F.	GAS SIZE	GAS/A.F.F.	BTU/HR.	
1	01	COLD STORAGE ASSEMBLY	BALLY	CUSTOM	01	*												F.D.						SEE REFRIGERATION CONNECTION SCHEDULE
1	02	THREE-COMPARTMENT SINK	EXISTING	RESET	02												2"	F.S.						F.S.E.C. TO VERIFY EXISTING UTILITES
3	02.1	PRE-RINSE UNIT W/ADD ON FAUCET	EAGLE GROUP	313296 / 313297	02.1								1/2"	14"	1/2"	14"								
1	03	FOOD WASTE DISPOSER	EXISTING	RESET	03	18"		3	8.8	208	3	DIRECT			1/2"	12"			2"					F.S.E.C. TO VERIFY EXISTING UTILITES
1	04	WORKTABLE-ROLLED EDGE	EXISTING	RESET	04																			
2	05	WORKTABLE-ROLLED EDGE	EXISTING	RESET	05																			
1	06	WORKTABLE-ROLLED EDGE	EXISTING	RESET	06																			
1	07	WORK TABLE, WITH PREP SINKS	EXISTING	RESET	07								1/2"	14"	1/2"	14"	2"	F.S.						F.S.E.C. TO VERIFY EXISTING UTILITES
3	08	COMMERCIAL WASTE CONTAINER	RUBBERMAID	FG263200GRAY	08																			
7	09	SHELVING, WIRE	EXISTING	RESET	09																			
1	10	NOT USED	-	-	10																			
6	11	TRAY DELIVER CART	OWNER	N.I.K.C.	11																			
3	12A	SHELVING UNIT, WIRE	QUANTUM	WR63-2136GY	12A																			63" HIGH, 4-TIER, EPOXY
2	12B	SHELVING UNIT, WIRE	QUANTUM	WR63-2148GY	12B																			63" HIGH, 4-TIER, EPOXY
1	13	NOT USED	-	-	13																			
1	14	SOILED DISHTABLE	EAGLE GROUP	SDTL-120-14/3	14								1/2"	14"	1/2"	14"	2"	F.S.						PRE-RINSE UNIT, LEVER WASTE
2	15	DISHTABLE SORTING SHELF	EAGLE GROUP	606302	15																			MOUNT 5'-4"
1	16A	RACK CONVEYOR DISHWASHING MACHINE	HOBART	CL44-BAS	16A	64"	B: 18.0		51.7	480	3	DIRECT	1/2"	12"	1/2"	12"	2"	F.S.						B:BOOSTER HEATER, DRAIN WATER TEMPERING KIT
1	16B	PANT LEG VENT DUCT	AVTEC	SSA-PANTLEG44	16B																			SEE VENTILATION CONNECTION SCHEDULE
1	17	CLEAN DISHTABLE	EAGLE GROUP	CDTR-84-14/3	17																			UNDER SHELF, TABLE LIMIT SWITCH
2	18	HAND SINK	EAGLE GROUP	HSA-10-F-DS	18								1/2"	14"	1/2"	14"			2"					
2	19	UNIVERSAL PAN RACK	NEW AGE	1306	19																			CASTERS
1	20	NOT USED	-	-	20																			
1	21	COMBI OVEN, ELECTRIC	RATIONAL	ICC 10-FULL E	21	50"			1.6/45.0	120/480	3	DIRECT			3/4"	14"		F.S.	2"					VENTLESS HOOD 120 VOLTS 1.6 AMPS, OVEN STAND, WATER FILTER, BACK FLOW PREVENTER
2	22	HOLDING CABINET, HEATED	METRO	C539-HFC-4	22	24"			16.7	120	1	NEMA 5-15P												CASTERS
1	23	REFRIGERATOR-FREEZER, REACH-IN	BEVERAGE-AIR	HBRF49HC-1-A	23	24"		3/4	7.5	120	1	(2) NEMA 5-15P												CASTERS
4	24	SHELVING UNIT, WIRE	QUANTUM	WR63-2148GY	24																			63" HIGH, 4-TIER, EPOXY, CASTERS
1	25	ICE MACHINE, AIR COOLED	SCOTSMAN	MC0630SA-32	25	64"			11.0	208	1	DIRECT			3/8"	64"	1"	F.S.						ICE BIN, WATER FILTER, BACK FLOW PREVENTER
1	26	MOBILE COLD UNIT	CADDY CORP	RIF-602	26	STUB			5.8	120	1	NEMA 5-15P						F.S.						CASTERS
1	27	HOT FOOD CADDY	CADDY CORP.	TF-605	27	STUB			28.8	208	1	NEMA 6-50P						F.S.						CASTERS
1	28	WORKTABLE-ROLLED EDGE	EAGLE GROUP	T24120SE	28																			
1	29	CART, UTILITY	CADDY CORP	T-203-B	29																			CASTERS
1	30	NOT USED	-	-	30																			
1	31	NOT USED	-	-	31																			
2	32	WASHER, 55 LB.	UNIMAC	UY55	32	ABV.	3	4.02		480	3	DIRECT	3/4"	24"	3/4"	24"		F.T.						
2	33	TUMBLE DRYER, 75LB.	UNIMAC	UTF-75	33	ABV.			7.0	480	3	DIRECT									3/4"	24"	225,000	SEE VENTILATION CONNECTION SCHEDULE
1	34	UTILITY SINK ONE-COMPARTMENT	EAGLE GROUP	2124-1-16/4	34								1/2"	14"	1/2"	14"	2"	F.S.						FAUCET, LEVER WASTE

ABBREVIATIONS

ABV.	ABOVE
A.F.F.	ABOVE FINISHED FLOOR
CTR.	COUNTER MOUNTED
C.W.	COLD WATER
E.C.	ELECTRICAL CONTRACTOR
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
F.S.E.C.	FOOD SERVICE EQUIPMENT CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.W.	HOT WATER
I.W.	INDIRECT WASTE
M.C.	MECHANICAL CONTRACTOR
N.I.K.C.	NOT IN KITCHEN CONTRACT
S/S	STAINLESS STEEL
ST.	STUB
U.C.	UTILITY CHASE
W.	WASTE

140° F. HOT WATER REQUIREMENTS

		GPH
POT SINKS	3 @ 30	150
PRE-RINSE UNIT	2 @ 35	70
DISHMACHINE	FROM BOOSTER @ 20 PSI	90
CLEANING	-	10
UTILITY SINK	1 @ 20	20
	TOTAL	340

110° F. HOT WATER REQUIREMENTS

		GPH
MOP SINK	-	5
HAND SINK	2 @ 5	10
PREP SINK	2 @ 20	40
	TOTAL	55

160° F. HOT WATER REQUIREMENTS

		GPH
WASHER EXTRACTOR	2 @ 165	330

REFRIGERATION CONNECTION SCHEDULE

CONN.	EQUIPMENT	LOAD	V/PH	REMARKS
01A	LIGHTS, COOLER	200 W	120/1	ONE EXTRA LIGHT
01B	EVAP. COIL, COOLER	0.6 AMPS	208/1	-
01C	COND. UNIT, COOLER	7.6 MCA	208/3	-

ELECTRICAL LOADS ARE BASED ON MANUFACTURER'S INFORMATION. MINIMUM CIRCUIT AMPACITY AND OVERCURRENT PROTECTION TO BE DETERMINED BY CODE REQUIREMENTS AND/OR MANUFACTURER'S DIRECTIONS.

***GAS NOTE:
KITCHEN EQUIPMENT WILL BE PROVIDED WITH GAS PRESSURE REGULATORS DESIGNED TO OPERATE WITH 14" W.C. INCOMING GAS PRESSURE OR LESS. PLUMBER TO PROVIDE INTERMEDIATE REGULATORS, AS REQUIRED TO REDUCE INCOMING BUILDING PRESSURE TO LEVEL SUITABLE FOR EQUIPMENT.

THE DATA ON EXISTING EQUIPMENT IS THE BEST AVAILABLE AT THE TIME THESE DRAWINGS WHERE PREPARED, AND IS OFFERED FOR PLANNING PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIF ALL DATA PRIOR TO ROUGHING-IN UTILITIES FOR EXISTING EQUIPMENT

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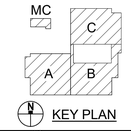
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DETENTION ANNEX RENOVATION

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J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

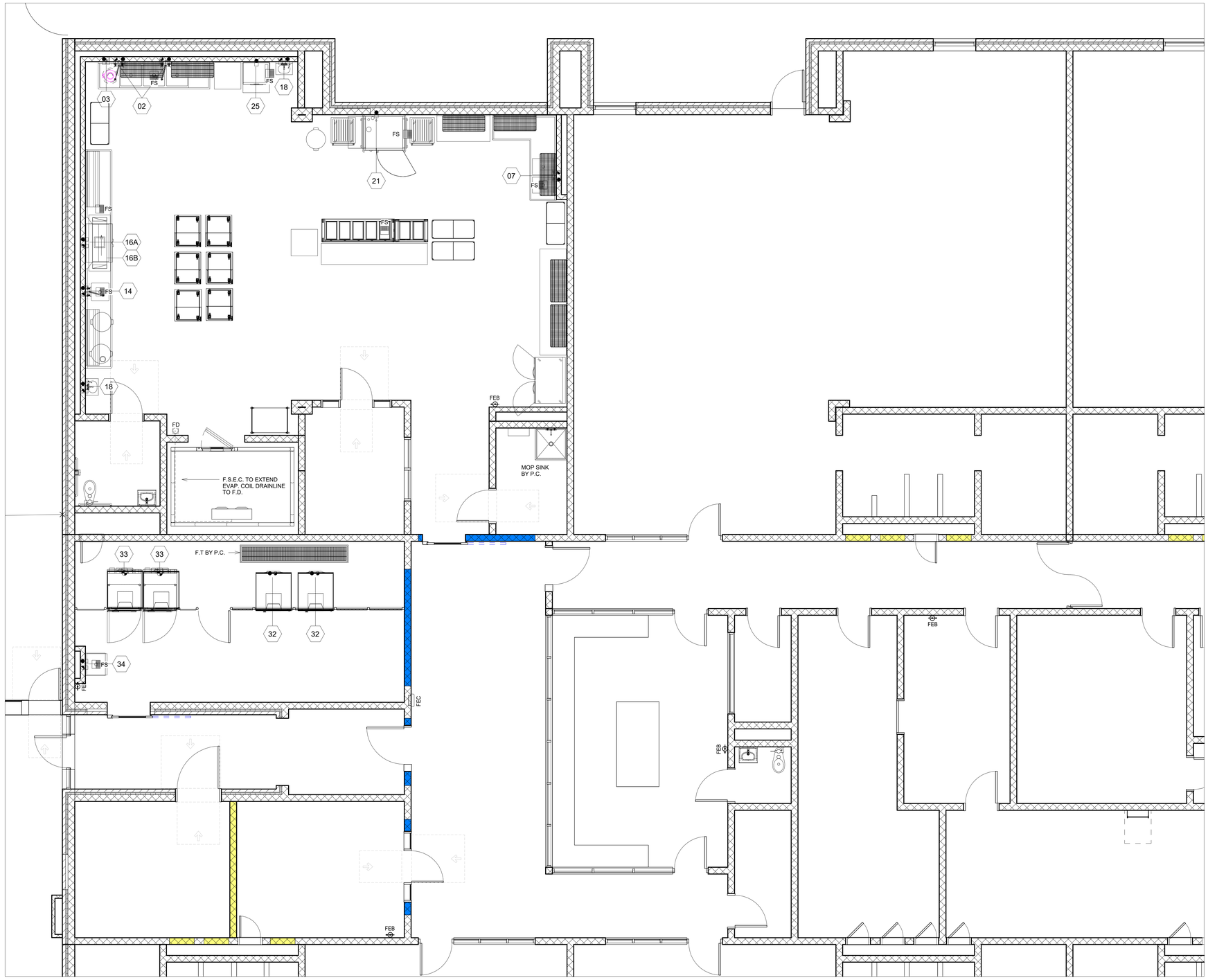
REVISIONS	
DATE	DESCRIPTION



FOOD SERVICE EQUIPMENT SCHEDULE

FS.02

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1 FS.03 FOODSERVICE PLUMBING PLAN
1/4" = 1'-0"

MECHANICAL SYMBOLS	
	HOT WATER (HW)
	COLD WATER (CW)
	WASTE (W)
FD	FLOOR DRAIN
	GAS
FS	FLOOR SINK - OPEN
FS	FLOOR SINK W/HALF GRATE
	EXHAUST DUCT CONNECTION
	SUPPLY DUCT CONNECTION

NOTES

PLUMBING ROUGHING IN NOTES

THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGHING-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING-IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

PLUMBING NOTES

PLUMBING TRIM SUCH AS FAUCETS AND SINK WASTES SHALL BE FURNISHED WITH EQUIPMENT BY FOOD SERVICE EQUIPMENT CONTRACTOR. PLUMBER TO PROVIDE SERVICE, STOP VALVES, P-TRAPS, ETC., AND MAKE FINAL CONNECTIONS.

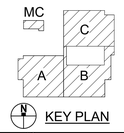
COLD STORAGE ASSEMBLY: EVAP. COIL DRAINLINES SHALL BE PROVIDED AND INSTALLED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

BOOSTER HEATER SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH/PRESS. REDUCING VALVE TEMP/PRESSURE GAUGE AND SHOCK ABSORBER LOOSE FOR FINAL CONNECTION BY PLUMBER.

DISPOSERS SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH FLOW CONTROL VALVE, SOLENOID, AND VACUUM BREAKER. PLUMBER TO PROVIDE INTERCONNECTING PIPING AND MAKE FINAL CONNECTIONS.

MECHANICAL NOTES

DISHMACHINE SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH VENT COWLS AND STAINLESS STEEL DUCTS TO CEILING, READY FOR FINAL CONNECTIONS BY H.V.A.C. CONTRACTOR.



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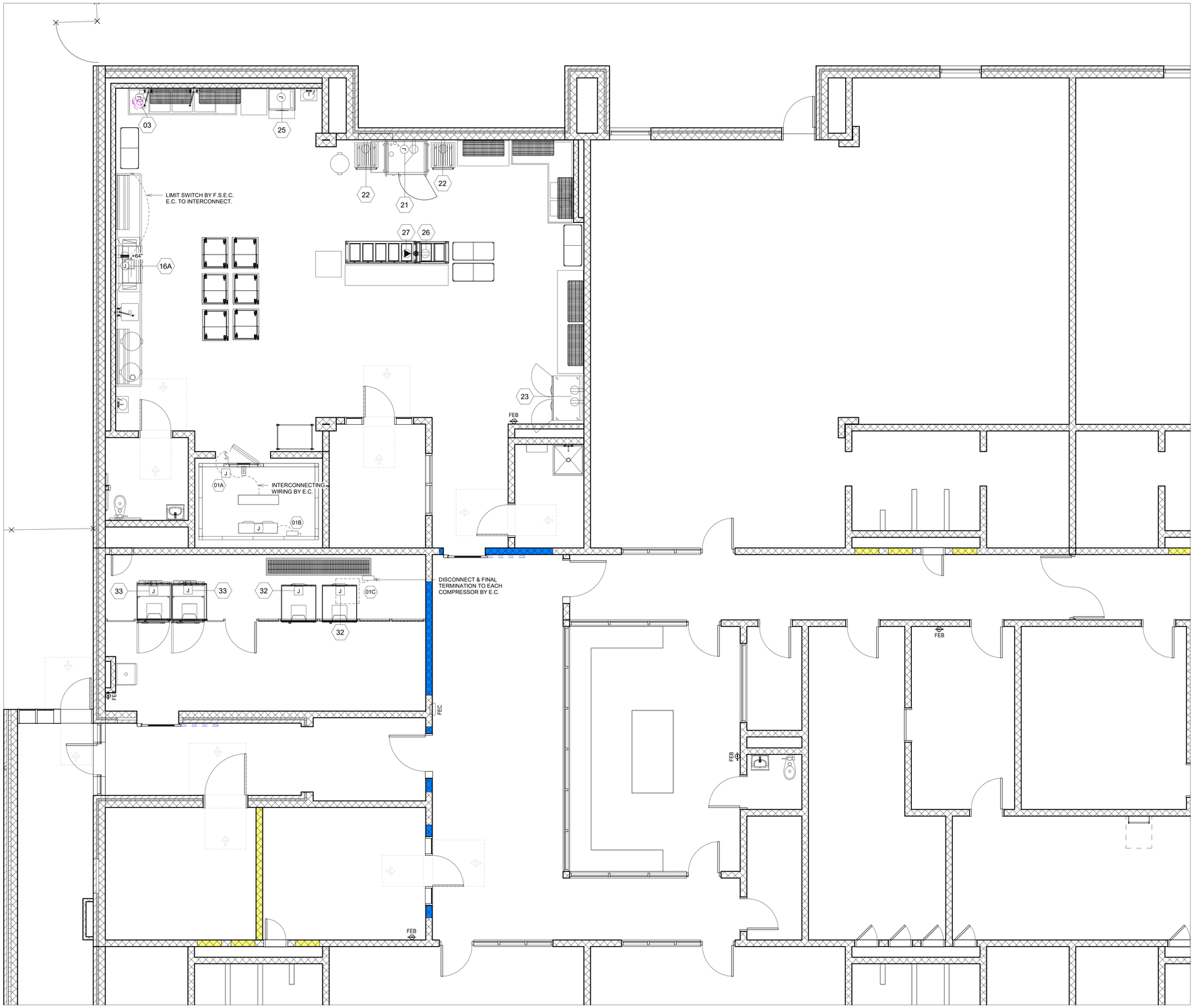
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FOOD SERVICE PLUMBING PLAN

FS.03

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1 FS.04 FOODSERVICE ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL SYMBOLS

J	J-BOX, FLUSH IN WALL
J	J-BOX FROM ABOVE
	WATERPROOF CONDUIT STUB
	DUPLEX OUTLET
	CONVENIENCE OUTLET, UNASSIGNED
	SPECIAL OUTLET TO MATCH EQUIPMENT

NOTES

ELECTRICAL ROUGHING IN NOTES

THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGHING-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR.

WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES OFF THE FLOOR TO ALLOW FOR CLEANING.

ELECTRICAL NOTES

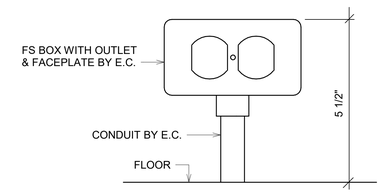
DISHMACHINE SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR, PRE-WIRED TO INTEGRAL CONTROL PANEL READY FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.

COLD STORAGE ROOMS SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH PRE-WIRED LIGHT AND SWITCH AT DOOR PANEL. ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECTING WIRING TO EXTRA LIGHT FIXTURES AND MAKE FINAL CONNECTIONS.

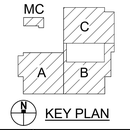
REFRIGERATION SYSTEMS SHALL BE FURNISHED AND INSTALLED BY FOOD SERVICE EQUIPMENT CONTRACTOR, INCLUDING DEFROST WIRING BETWEEN COND. UNIT AND EVAP. COIL. FINAL POWER DROPS AND DISCONNECTS FOR COND. UNITS AND EVAP. COILS SHALL BE BY ELECTRICAL CONTRACTOR.

DISPOSERS SHALL BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR WITH SOLENOID VALVE AND AUTO REVERSING CONTROL CENTER WITH MAGNETIC STARTER (S) AND START/STOP BUTTONS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.

AIR CURTAIN FAN TO BE FURNISHED BY F.S.E.C. WITH DOOR SWITCH. E.C. TO PROVIDE MASTER SWITCH & MAKE FINAL CONNECTIONS.



2 FS.04 FLOOR-MOUNTED RECEPTACLE
NO SCALE



KEY PLAN

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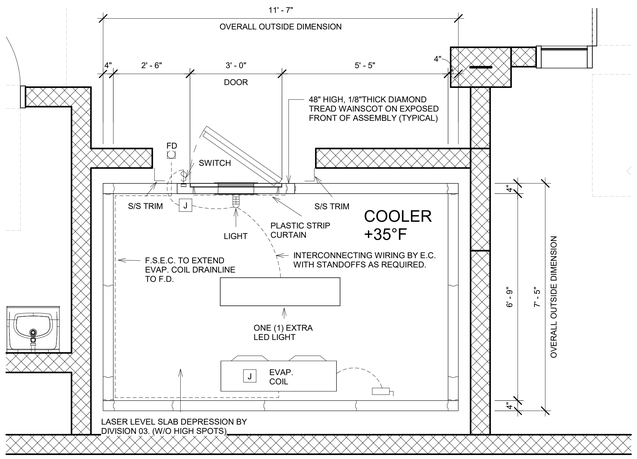
FOOD SERVICE ELECTRICAL PLAN

FS.04

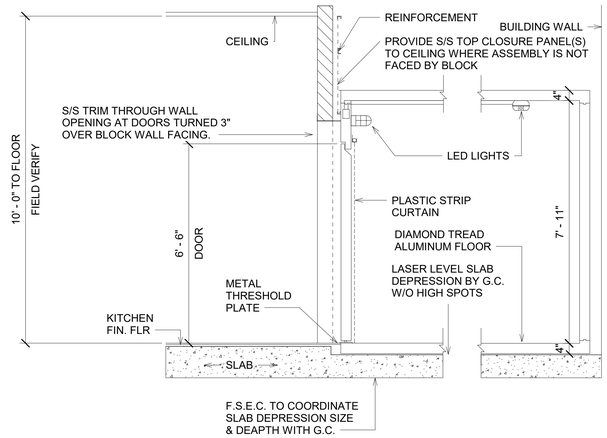
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REFRIGERATION SYSTEMS									
AMBIENT TEMP.	RUN TIME	COND. UNIT			SUCTION TEMP	EVAP. COIL			
		MCA	VOLT	PHASE		AMP	VOLT	PHASE	DEFROST
100° F	16 HOURS	7.6	208	3	24.8° F	0.6	208	1	OFF-CYCLE

COLD STORAGE ASSEMBLY DATA						
COMPARTMENT	TEMP RANGE	DAILY BTU LOAD	LIGHTS WATTS	DOOR HEAT	VOLT	PHASE
COOLER	+35° F	8,078	200 W		120	1



1 FS.05 **COLD STORAGE ASSEMBLY**
1/2" = 1'-0" ITEM 01



2 FS.05 **COLD STORAGE ASSEMBLY SECTION**
1/2" = 1'-0" ITEM 01

WALK-IN NOTES

EXTERIOR SURFACES
.040 PATTERNED ALUMINUM WITH 48" HIGH WAINSCOT ON EXPOSED SURFACES.

INTERIOR WALLS
.040 PATTERNED ALUMINUM WITH WHITE FINISH.

INTERIOR CEILING
.040 PATTERNED ALUMINUM WITH WHITE ENAMEL.

INTERIOR FLOOR
INSULATED FLOOR BY F.S.E.C. WITH .100 DIAMOND TREAD ALUMINUM. 1200 LBS STRUCTURAL FLOOR. EXTERIOR RAMP

DOORS
NOMINAL 36"x78" FINISHED TO MATCH EXTERIOR. CHROME PLATED HARDWARE; 1/8" DIAMOND TREAD KICK PLATE, 48" HIGH, BOTH SIDES.

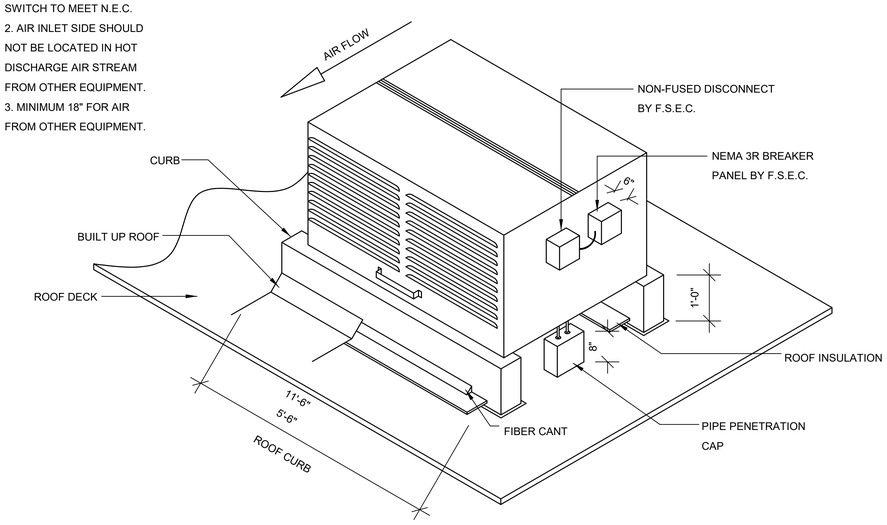
REFRIGERATION
AIR COOLED REMOTE CONDENSING UNITS WITH ALL WEATHER HOUSING, AND CONTROLS FOR OUTDOOR OPERATION.

MISCELLANEOUS
TRIM STRIPS, EVAPORATOR DRAIN LINES, DIAL THERMOMETERS, TOP CLOSURE PANELS, PLASTIC STRIP CURTAINS AND 1/8" DIAMOND TREAD WAINSCOT ACROSS FRONT OF ASSEMBLY.

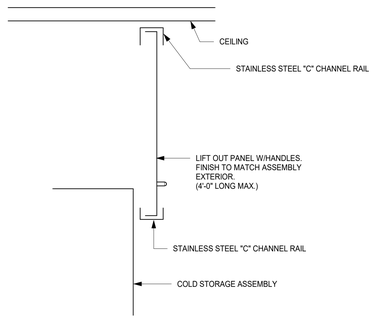
LIGHTS
MANUFACTURER TO FURNISH EXTRA LIGHT FIXTURES AS REQUIRED TO PROVIDE 50 FT. CANDLES 30" ABOVE FLOOR MINIMUM. F.S.E.C. TO INSTALL AND E.C. TO CONNECT.

1. MINIMUM 36" CLEARANCE IN FRONT OF DISCONNECT SWITCH TO MEET N.E.C.
2. AIR INLET SIDE SHOULD NOT BE LOCATED IN HOT DISCHARGE AIR STREAM FROM OTHER EQUIPMENT.
3. MINIMUM 18" FOR AIR FROM OTHER EQUIPMENT.

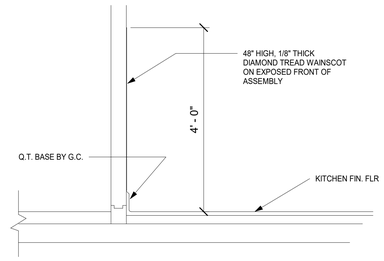
THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY. COORDINATE SIZE AND CONFIGURATION TO ACTUAL CONDITIONS.



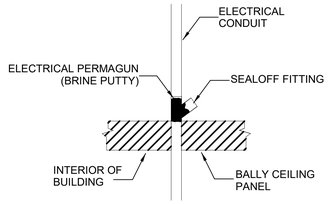
3 FS.05 **CONDENSING UNIT ON ROOF**
NO SCALE



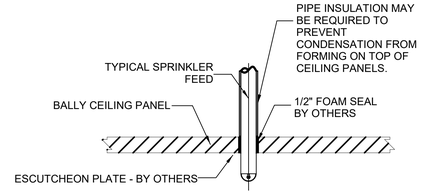
4 FS.05 **REMOVABLE S/S PANEL DETAIL**
NO SCALE



5 FS.05 **WAINSCOT DETAIL**
NO SCALE



6 FS.05 **ELECTRICAL PENETRATION**
NO SCALE



7 FS.05 **SPRINKLER HEAD DETAIL**
NO SCALE

MC
A B C
KEY PLAN

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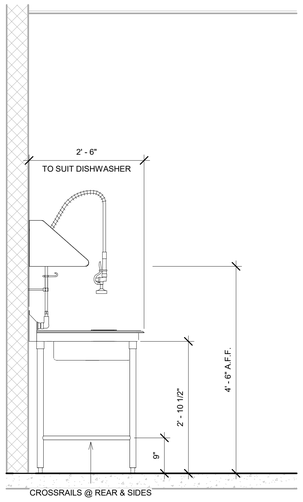
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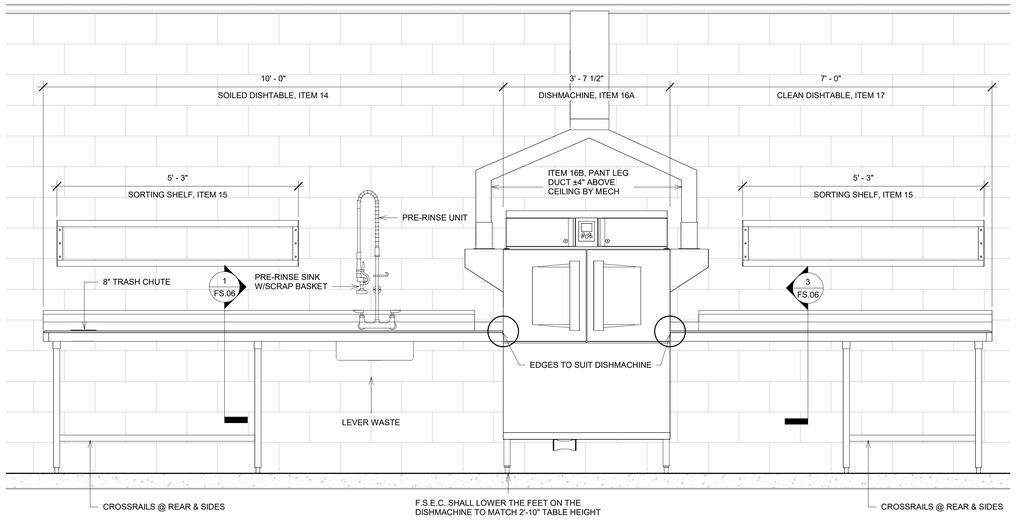
FOOD SERVICE COLD STORAGE DETAILS

FS.05

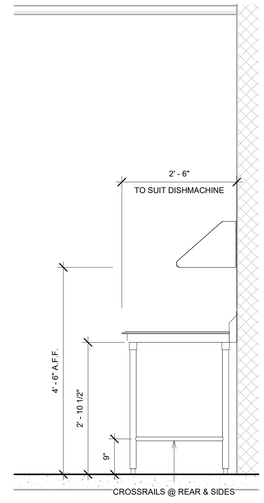
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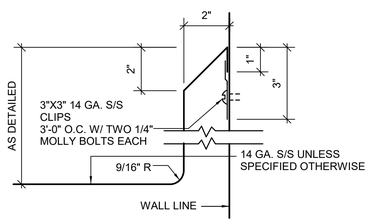
1 FS.06 SOILED DISHTABLE
3/4" = 1'-0" ITEMS 14, 15



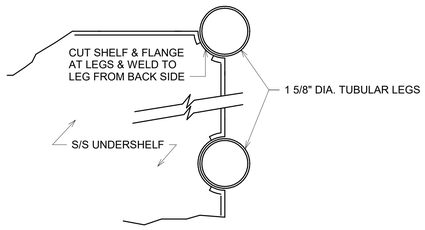
2 FS.06 DISHTABLE ASSEMBLY
3/4" = 1'-0" ITEMS 14, 15, 16A, 16B, 17



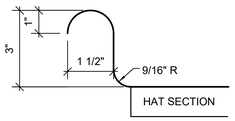
3 FS.06 CLEAN DISHTABLE
3/4" = 1'-0" ITEMS 15,17



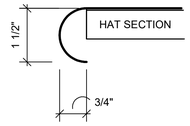
4 FS.06 BACKSPLASH DETAIL
NO SCALE



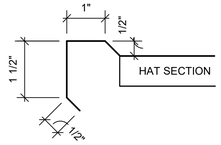
5 FS.06 PIPE LEG UNDERSHELF
NO SCALE



6 FS.06 ROLLED RIM
NO SCALE



7 FS.06 PLAIN EDGE
NO SCALE



8 FS.06 NON-SPILL
NO SCALE

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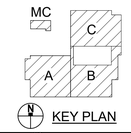
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FOOD SERVICE EQUIPMENT DETAILS

FS.06

10/10/2025 2:45:00 PM

STRUCTURAL ABBREVIATIONS

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

PLAN LEGEND

℄	CENTERLINE
JBE (+X'-X")	JOIST BEARING ELEVATION
BP-A, BP-B ...	COLUMN BASE PLATE
P-1, P-2 ...	CONCRETE PIER
JS	JOIST SUBSTITUTE
KCS	CONSTANT SHEAR JOIST
SP	SPECIAL JOIST
	WALL FOOTING STEP
-X'-X"	TOP OF FOOTING ELEVATION
WP	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
	THICKENED SLAB
*	STEEL JOIST BOTTOM CHORD EXTENSION, WELDED
	STEEL BEAM/JOIST MOMENT CONNECTION
(EX)	EXISTING
TF	TRANSFER FORCE
	CHANGE IN SLAB ELEVATION
TCX	TOP CHORD EXTENSION

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

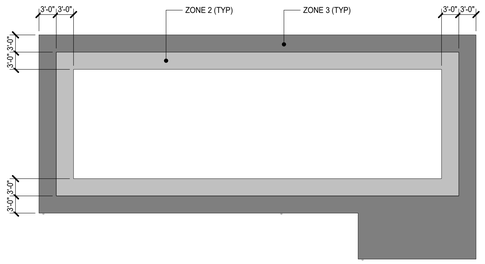
DESIGN LOAD DATA

1. CLASSIFICATION OF BUILDING
   RISK CATEGORY (IBC TABLE 1604.5) — III
2. FLOOR LIVE LOADS — UNIFORM — CONCENTRATED
   - FIRST FLOOR SLABS-ON-GRADE (UNO) — 100 PSF — 2000 LB
   - MORGUE CONTAINER SLAB-ON-GRADE — 250 PSF — 3000 LB
   - DIRECT SUPERVISION PLATFORM — 40 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. SUPERIMPOSED DEAD LOADS
   - MORGUE CONTAINER SHELTER ROOF — 10 PSF
5. ROOF SNOW LOAD
   - GROUND SNOW LOAD (Pg) — 15 PSF
   - IMPORTANCE FACTOR (Is) — 1.1
   - EXPOSURE FACTOR (Ce) — 1.1
   - THERMAL FACTOR (Ct) — 1.2
   - FLAT ROOF SNOW LOAD (Pf = 0.7 x Ce x Ct x Is x Pg) — 15.3 PSF
   - MINIMUM Pf FOR Pg = 20 PSF OR LESS
     Pf min = I x Pg — 16.5 PSF
   - SLOPED ROOF SNOW LOAD (Ps = Cs x Pf) — 16.5 PSF
   - SNOW DRIFTING LOADS — N/A
6. RAIN LOAD
   - 15-MINUTE INTENSITY — 6.39 IN/HR
7. WIND DESIGN DATA
   - ULTIMATE DESIGN WIND SPEED (3 SECOND GUST) — 120 MPH
   - NOMINAL DESIGN WIND SPEED (3 SECOND GUST) — 93 MPH
   - EXPOSURE — B
   - INTERNAL PRESSURE COEFFICIENT (GCpi) — 0.00 (OPEN - MORGUE CONTAINER SHELTER)
   - COMPONENTS AND CLADDING WIND PRESSURE — REFER TO TABLE BELOW (PER IBC & ASCE7)
8. SEISMIC DESIGN DATA
   - SEISMIC DESIGN CATEGORY — B
   - SEISMIC IMPORTANCE FACTOR (Ie) — 1.25
   - SITE CLASS — D (PRESUMED)
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS
     (Ss) — 0.156
     (S1) — 0.077
   - DESIGN SPECTRAL RESPONSE ACCELERATIONS
     (Sds) — 0.167
     (Sd1) — 0.124
   - MORGUE CONTAINER SHELTER:
     BASIC SEISMIC FORCE RESISTING SYSTEM: — H. SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
     RESPONSE MODIFICATION COEFFICIENT (R) — 3.0
     SYSTEM OVERSTRENGTH FACTOR — 3.0
     DEFLECTION AMPLIFICATION FACTOR — 3.0
     SEISMIC RESPONSE COEFFICIENT (Cs) — 0.0693
     ANALYSIS PROCEDURE — EQUIVALENT LATERAL FORCE PROCEDURE
     SEISMIC DESIGN BASE SHEARS — V_{N-S} = 3.3 KIPS — V_{E-W} = 3.3 KIPS

COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF)
MORGUE CONTAINER SHELTER

ZONE	AREA ≤ 9 FT²	9 FT² < AREA ≤ 36 FT²	AREA > 36 FT²
1 (ROOF)	+30.8 / -28.5	+30.8 / -28.5	+30.8 / -28.5
2 (ROOF)	+46.2 / -43.1	+46.2 / -43.1	+30.8 / -28.5
3 (ROOF)	+61.7 / -76.4	+46.2 / -43.1	+30.8 / -28.5

NOTES:
1. PRESSURES INDICATED ARE FOR ULTIMATE DESIGN WIND SPEED AS DEFINED IN ASCE 7-10.
2. EFFECTIVE WIND AREA SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7-10.
3. REDUCTION FACTORS FOR EFFECTIVE WIND AREAS ARE NOT PERMITTED.
4. (+) INDICATES PRESSURES ACTING TOWARD BUILDING (INWARD).
   (-) INDICATES PRESSURES ACTING AWAY FROM BUILDING (OUTWARD).
5. ROOF IS ZONE 1, UNLESS NOTED OTHERWISE ON THE ROOF WIND PRESSURE PLAN.

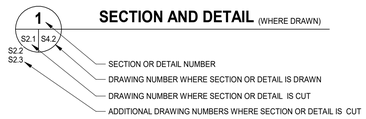


ROOF WIND PRESSURE PLAN - MORGUE CONTAINER SHELTER

3/32" = 1'-0"

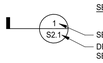
LEGEND FOR SECTION AND DETAIL MARKS

SECTION AND DETAIL (WHERE DRAWN)



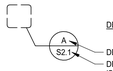
- SECTION OR DETAIL NUMBER
- DRAWING NUMBER WHERE SECTION OR DETAIL IS DRAWN
- DRAWING NUMBER WHERE SECTION OR DETAIL IS CUT
- ADDITIONAL DRAWING NUMBERS WHERE SECTION OR DETAIL IS CUT

SECTION WHERE CUT



- SECTION NUMBER
- DRAWING NUMBER WHERE SECTION IS DRAWN

DETAIL WHERE CUT



- DETAIL LETTER
- DRAWING NUMBER WHERE DETAIL IS DRAWN

GENERAL

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE (NCBC), 2018 EDITION.
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 COMPLIMENTARY 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.
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 NCBC, 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.

RENOVATION

1. EXISTING CONSTRUCTION INDICATED ON THE STRUCTURAL DRAWINGS IS BASED ON INFORMATION OBTAINED FROM THE ORIGINAL DESIGN DRAWINGS AND ON LIMITED OBSERVATIONS OF EXISTING CONDITIONS. THIS INFORMATION, INCLUDING STRUCTURAL COMPONENT TYPE, SIZE AND ORIENTATION HAS NOT BEEN CONFIRMED IN ALL CASES, AND MAY NOT MATCH "AS-BUILT" EXISTING CONSTRUCTION. ALL EXISTING CONDITIONS AND DIMENSIONS RELATING TO THE NEW WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ELEMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. EXISTING CONSTRUCTION IS INDICATED USING A LIGHTER LINE WEIGHT THAN NEW CONSTRUCTION IN PLANS AND SECTIONS.

TEMPORARY SHORING

1. PROVIDE TEMPORARY SHORING AND BRACING TO MAINTAIN THE EXISTING STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT CONSTRUCTION AND LATERAL BRACING IS IN PLACE.
2. THE TEMPORARY SHORING DIAGRAMS ARE CONCEPTUAL ONLY. DESIGN OF TEMPORARY SHORING SHALL BE PROVIDED BY THE CONTRACTOR. DESIGN CALCULATIONS AND SHORING DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
3. CAREFULLY EVALUATE THE SITUATION WHICH EXISTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT IF ANY CONDITIONS ARE DETECTED WHICH MAY AFFECT THE STABILITY OF THE EXISTING STRUCTURE OR THE SHORING.
4. MONITOR THE PERFORMANCE OF THE TEMPORARY SHORING AT ALL TIMES DURING THIS WORK AND HAVE ADDITIONAL SHORING READILY AVAILABLE ON SITE IN THE EVENT OF DEFLECTION OR OTHER MOVEMENT OF THE SHORING.

FOUNDATIONS

1. FOUNDATIONS ARE DESIGNED TO BEAR ON ORIGINAL UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL WITH AN ALLOWABLE BEARING CAPACITY OF 3000 PSF, IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY GEOTECHNOLOGIES, INC DATED OCTOBER 15, 1999 FOR THE PHASE 1A EXISTING JAIL EXPANSION PROJECT (RECORD DRAWINGS DATED NOVEMBER 30, 2001).
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. FOOTING STEPS FOR UNDERSLAB UTILITIES INDICATED ON FOUNDATION PLANS SHALL BE CONSIDERED APPROXIMATE. COORDINATE FOOTINGS WITH ACTUAL LOCATION, SIZE AND INVERT OF ALL UNDERGROUND PIPE (AND CONDUIT). REFER TO "FOOTING STEP" DETAIL TO STEP WALL FOOTING DOWN TO ALLOW UNDERSLAB PIPING TO PASS ABOVE THE FOOTING. ALTERNATIVELY, REFER TO "FOOTING SLEEVE" AND "PIPE TRENCH BACKFILL AT FOOTING" DETAILS TO ALLOW UNDERSLAB PIPING TO PASS BELOW THE TOP OF THE WALL FOOTING.
5. AVOID INFLUENCE OF PIPE TRENCH PARALLEL TO WALL FOOTING AND / OR ADJACENT TO COLUMN FOOTING. REFER TO "FOOTING EXCAVATION LIMITS".

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 (OR LIGHTWEIGHT AS INDICATED) 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
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
INTERIOR SLABS ON METAL DECK (LIGHT WT. CONC)	F0	S0	W0	C0	3,500	0.55	NOTE 8	115	3/4"	I / II	1.0
INTERIOR SLABS ON GRADE	F0	S0	W0	C0	3,500	0.50	NOTE 8	145	3/4"	I / II	0.3

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. EXPOSURE CATEGORIES ARE AS FOLLOWS:
   - (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) AND ASTM C330 FOR LIGHT WEIGHT CONCRETE (LWC).
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 NOT RECEIVING A HARD TROWEL FINISH MAY BE AIR-ENTRAINED. NORMAL WEIGHT SLABS RECEIVING A HARD TROWEL FINISH SHALL NOT BE AIR-ENTRAINED. FINISHING METHODS FOR AIR-ENTRAINED LIGHTWEIGHT SLABS SHALL BE SUBMITTED PRIOR TO THE PRE-INSTALLATION MEETING AND WILL BE REVIEWED AT THE MEETING.
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:
   - UNFORMED SURFACE CAST AGAINST EARTH — 3 IN
   - FORMED SURFACE EXPOSED TO EARTH/WEATHER — 2 IN
   - FORMED SLABS AND WALLS NOT EXPOSED TO EARTH/WEATHER — 3/4 IN
   - 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. STEEL FIBER MAY BE SUBSTITUTED FOR WELDED WIRE FABRIC IN SLAB-ON-GRADE AND IN SLAB ON COMPOSITE STEEL FLOOR DECK AT LOCATIONS INDICATED ON PLANS, AND SHALL CONFORM TO ASTM C1116, TYPE I STEEL FIBER REINFORCED CONCRETE. FIBERS SHALL BE ASTM A820 TYPE II STEEL FIBERS, 1" LONG AND CONTINUOUSLY DEFORMED. 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 30 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.

STEEL JOISTS

1. ALL STEEL JOIST WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.
2. STEEL JOISTS SHALL BE DESIGNED USING ALLOWABLE STRENGTH DESIGN (ASD), AND SHALL BE MANUFACTURED WITH STEEL HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.
3. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS, OSHA REQUIREMENTS, AND AS REQUIRED BY JOIST DESIGN.
4. ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR A NET UPLIFT IN ACCORDANCE WITH WIND THE PRESSURE DIAGRAM.
5. SPECIAL JOISTS, INDICATED "SP" ON FRAMING PLANS, SHALL BE DESIGNED FOR CRITERIA INDICATED.
6. DETAILING AND ERECTION OF OPEN WEB STEEL JOISTS SHALL COMPLY WITH OSHA REQUIREMENTS.
7. STEEL ROOF JOISTS SHALL BE PROVIDED WITH NO CAMBER.
8. DESIGN ALL JOISTS (K, KCS, LH) FOR A 500 POUND CONCENTRATED "ADD-LOAD" AT ANY ONE PANEL POINT ALONG THE JOIST, UNLESS NOTED OTHERWISE.
9. K-SERIES JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES RESULTING FROM A 200 POUND CONCENTRATED "BEND-CHECK" LOAD LOCATED AT ANY LOCATION ALONG TOP AND BOTTOM CHORD IN ADDITION TO ALL OTHER LOADS.
10. REFER TO "TYPICAL LOAD SUPPORTED FROM JOIST" DETAIL FOR REQUIREMENTS REGARDING PIPE HANGERS AND OTHER EQUIPMENT LOADS.
11. STEEL JOISTS EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE PAINTED WITH A ZINC RICH TNEMEC PAINT THAT MEETS THE REQUIREMENTS OF ASTM D 520 TYPE III.
12. COORDINATE SUPPORT OF SPRINKLER PIPING, INCLUDING MAINS, WITH JOIST MANUFACTURER. SPRINKLER MANUFACTURER SHALL OBTAIN A LETTER FROM THE JOIST MANUFACTURER VERIFYING THAT THE PIPE HANGER LOCATION AND LOADS HAVE BEEN PROVIDED FOR THEIR USE. THIS LETTER SHALL BE SUBMITTED TO THE ARCHITECT WITH THE SPRINKLER SUBMITTAL PACKAGE. IF LOCATIONS OF THE MAINS ARE ALTERED FROM THE INFORMATION PROVIDED BY THE SPRINKLER MANUFACTURER TO THE JOIST MANUFACTURER, ADDITIONAL FRAMING SHALL BE ADDED TO PROVIDE ADEQUATE SUPPORT FOR THE PIPING LOADS AT NO COST TO THE OWNER.

CONCRETE MASONRY UNITS (CMU)

1. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES WITH COMMENTARY" AND TMS 602 "SPECIFICATIONS FOR MASONRY STRUCTURES WITH COMMENTARY".
2. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY(F'm), SHALL BE 3000 PSI, DETERMINED IN ACCORDANCE WITH THE UNIT STRENGTH METHOD PER TMS 602, UNLESS NOTED OTHERWISE.
3. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, AND SHALL BE MADE WITH LIGHTWEIGHT AGGREGATE.
4. MORTAR FOR CMU SHALL CONFORM TO ASTM C270, TYPE S, UNLESS NOTED OTHERWISE. MORTAR FOR CMU SHALL CONFORM TO ASTM C270, TYPE M (2500 PSI) AT ALL INTERIOR AND EXTERIOR CMU SECURITY WALLS AND PARTITIONS.
5. GROUT SHALL CONFORM TO ASTM C476 AND SHALL BE PROPORTIONED TO OBTAIN MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
6. PLACE GROUT IN ACCORDANCE WITH TMS 402. ALLOW A MINIMUM OF 4 HOURS FOR MASONRY TO SET PRIOR TO PLACING GROUT. HIGH LIFT GROUTING IS PERMITTED PROVIDED THE GROUT PLACEMENT REQUIREMENTS OF TMS 602 SECTION 3.5 ARE MET. CONTRACTOR TO REVIEW CLEANOUT LOCATIONS FOR HIGH-LIFT GROUTING WITH ARCHITECT PRIOR TO COMMENCING WORK.
7. FILL COLLAR JOINTS OF COMPOSITE WALLS SOLID WITH MORTAR AS THE WALLS PROGRESS. BOND WYTHES OF COMPOSITE WALLS TOGETHER USING HORIZONTAL JOINT REINFORCING @ 16" ON CENTER, UNLESS NOTED OTHERWISE.
8. PROVIDE VERTICAL REINFORCING STEEL OF SIZE AND SPACING INDICATED. LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:
   - #4 BAR AND SMALLER — 26 INCHES
   - #5 BAR — 34 INCHES
   - #6 BAR — 38 INCHES
   - #7 BAR — 45 INCHES
9. PROVIDE POSITIONERS TO HOLD VERTICAL WALL REINFORCING STEEL IN PROPER ALIGNMENT.
10. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60.
11. AVOID PLACING CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING, WHERE POSSIBLE.
12. NO SWITCHES OR BOXES WITHIN 20 INCHES OF A DOOR JAMB.
13. MASONRY WALLS OF HOLLOW UNITS WHICH CHANGE THICKNESS SHALL HAVE A CONTINUOUS GROUT FILLED COURSE BELOW THE TRANSITION. IF WALL THICKNESS IS GREATER ABOVE THE TRANSITION, THE COURSE ABOVE THE TRANSITION SHALL ALSO BE GROUTED SOLID.
14. FILL CMU CELLS WITH GROUT FROM TOP OF FOOTING TO TOP OF SLAB-ON-GRADE ELEVATION.
15. MASONRY WALL CONTROL JOINTS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS AND DETAILS. COORDINATE JOINT LOCATIONS TO AVOID BEAM BEARING LOCATIONS. DO NOT BREAK BOND BEAM REINFORCEMENT AT CONTROL JOINTS.

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"
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
   - WIDE FLANGE SHAPES, CHANNELS AND MISC CHANNEL

SCHEDULE OF SPECIAL INSPECTIONS

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
Inspection Agents					
1. Special Inspection Engineer of Record:					
2. Inspection and Testing Agency:					
3. Steel Fabricator's Quality Control Inspector:					
4. Structural Engineer of Record:					
5. Mechanical Engineer of Record:					
6. Electrical Engineer of Record:					
7. Smoke Control Inspector:					
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 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	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.		●	N	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 approval fabricator in accordance with Section 1704.2.5.1	●		Y	1704.5 1704.2.5.1	3,4
Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.13.2	●		N	1704.5 1705.13.2	3,4
Certificates of compliance for designated seismic systems in accordance with Section 1705.13.3	●		N	1704.5 1705.13.3	3,4
Reports of preconstruction tests for shotcrete in accordance with Section 1908.5	●		N	1704.5, 1908.5	2,4
Certificates of compliance for open web steel joist and joist girders in accordance with Section 2207.5	●		Y	1704.5, 2207.5	3,4
Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 26.5.4. of ACI 318 for reinforcing bar in concrete complying with a standard other than ASTM A 706 that are to welded	●		N	1704.5, AWS D1.4 26.6.4 of ACI 318 ASTM A 706	2,4
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	3,4
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.				1704.6	
Seismic		●	N	1704.6.1	4
Wind		●	N	1704.6.2	4
1705.2 Steel Construction					
Structural steel inspections and non-destructive testing shall be in accordance with the quality assurance inspection requirements of AISC 360-10				1705.2.1 AISC 360-10	
Prior to Welding (AISC 360-10 Table N5.4-1)					
Welding procedure specifications (WPSs) available	●		Y	AISC 360-10 Table N5.4-1	1,4
Manufacturer certifications for welding consumables	●		Y		1,4
Material identification (type/grade)		●	Y		3,4
Welder identification system		●	Y		3,4
Fit-up of groove welds (including joint geometry)		●	Y		2,3
a. Joint preparation					
b. Dimensions (Alignment, root open, 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		●	Y		3
Fit-up of fillet welds		●	Y		2,3
a. Dimensions (Alignment, root open, root face, bevel)					
b. Cleanliness (Condition of steel surfaces)					
c. Tacking (tack weld quality and location)					
During Welding (AISC 360-10 Table N5.4-2)					
Use of qualified welders		●	Y	AISC 360-10 Table N5.4-2	1,2
Control and handling of welding consumables		●	Y		2
a. Packaging					
b. Exposure control					
No welding over cracked tack welds		●	Y		2
Environmental conditions		●	Y		2
a. Wind speed within limits					
b. Precipitation and temperature					
WPS followed		●	Y		2
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					
Welding techniques		●	Y		2
a. Interpass and final cleaning					
b. Each pass with profile limitations					
c. Each pass meets quality requirements					
After Welding (AISC 360-10 Table N5.4-3)					
Welds cleaned		●	Y	AISC 360-10 Table N5.4-3	1,2
Size, length, and location of welds	●		Y		1,2
Welds meet visual acceptance criteria	●		Y		1,2
a. Crack prohibition					
b. Weld/base-metal fusion					
c. Crater cross section					
d. Weld profiles					
e. Weld size					
f. Undercut					
g. Porosity					
Arc strikes	●		Y		1,2
k-area	●		Y		2
Backing removed and weld tabs removed (if required)	●		Y		2
Repair activities	●		Y		1,4
Document acceptance or rejection of welded joint or member	●		Y		
Placement of reinforcing or contouring fillet welds (if required) (ref: AISC 341-10)	●		N		2
Backing removed, weld tabs removed and finished, and fillet welds added (if required) (ref: AISC 341-10)	●		N		2

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
Nondestructive Testing (AISC 360-10 Section N5.5)					
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 inches thick or greater.		●	N	AISC 360-10 Section N5.5	1,2
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 subject to transversely applied tension loading, in materials 5/16 inches thick or greater.		●	Y		1,2
Access holes - Perform Magnetic Particle Testing or Liquid Penetrant Testing when the flange thickness exceeds 2 inches for rolled shapes, or when the web thickness exceeds 2 inches for built-up shapes.		●	N		1,2
Welded Joints Subject to Fatigue	●		N		1,2
Nondestructive Testing (AISC 341-10 Section J6.2)					
k-area	●		N	AISC 341-10 Section J6.2	2
CJP Groove weld	●		N		2
Lamellar tearing	●		N		2
Beam cope and access hole	●		N		2
Reduced beam section repair	●		N		2,4
Weld tab removal	●		N		2
Prior to Bolting (AISC 360-10 Table N5.6-1)					
Manufacturer's certifications available for fastener materials	●		Y	AISC 360-10 Section N5.6-1	3,4
Fasteners marked in accordance with ASTM requirements		●	Y		3,4
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to excluded for shear plane)		●	Y		3,4
Proper bolting pattern selected for joint detail		●	Y		2,4
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements		●	Y		2,4
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used (Not required for snug tight bolts)		●	N		1,2
Proper storage provided for bolts, nuts, washers and other fastener components		●	Y		1,2
During Bolting (AISC 360-10 Table N5-6.2)					
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, of suitable condition, placed in all holes and washers (if required) are positioned as required		●	N	AISC 360-10 Section N5.6-2	2
Joint brought to the snug-tight condition prior to pretensioning operation		●	N		2
Fastener component not turned by the wrench prevented from rotating		●	N		2
Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges		●	N		1,2
After Bolting (AISC 360-10 Table N5.6-3)					
Document acceptance or rejection of bolted connections		●	Y	AISC 360-10 Table N5.6-3	1,2
Other Inspection Tasks (AISC 360-10 Section N5.7)					
Verify compliance of fabricated steel with the details shown on the approved shop drawings		●	Y	AISC 360-10 Section N5.6-7	1,2
Verify compliance of the erected steel frame with the details shown on the approved erection drawings, including braces, stiffeners, member location and joint details		●	Y		1,2
Anchor rods and other embedment supporting structural steel		●	Y		1,2
a. Verify the diameter, grade, type and length of the anchor rod or embedded item					
b. Verify the extent or depth of embedment into the concrete					
RBS requirements, if applicable (ref: AISC 341-10)		●	N		1,2
a. Contour and finish					
b. Dimensional tolerances					
Protected zone - no holes and unapproved attachments made by fabricator or erector, as applicable (ref: AISC 341-10)		●	N		2
H-Piles - Protected zone - no holes and unapproved attachments made by the responsible contractor, as applicable (ref: AISC 341-10)		●	N		4
1705.2.2 Cold-Formed Steel Deck					
Special inspections in accordance with QA/QC-2011 Standard for Quality control and Quality assurance for installation of steel deck		●	Y	1705.2.2	4
1705.2.3 Open-Web Steel Joists and Joist Girders					
Installation of open-web steel joists and joist girders		●	Y	Table 1705.2.3	1,2
a. End connections - welding or bolted					
b. Bridging - horizontal or diagonal					
i. Standard bridging					
ii. Bridging that differs from the SJI specifications listed in section 2207					
Inspection of Composite Structures Prior to Concrete Placement (AISC 341-10 Table J9-1)					
Prior to Concrete Placement (AISC 360-10 Table N6-1)					
Placement and installation of steel deck		●	N	AISC 360-10 Table N6-1	1,2
Placement and installation of steel headed stud anchors		●	N		1,2
Document acceptance or rejection of stud elements		●	N		1
Prior to Concrete Placement (AISC 341-10 Table J9-1)					
Material identification of reinforcing steel (Type/Grade)		●	N	AISC 341-10 Table J9-1	1,2
Determination of carbon equivalent for reinforcing steel other than ASTM A706		●	N		2
Proper reinforcing steel size, spacing and orientation		●	N		1,2
Reinforcing steel has not been rebent in the field		●	N		2
Reinforcing steel has been tied and supported as required		●	N		2
Required reinforcing steel clearances have been provided		●	N		2
Composite member has required size		●	N		2
During Concrete Placement (AISC 341-10 Table J9-2)					
Concrete: Material identification (mix design, compressive strength, maximum large aggregate size, maximum slump)		●	N	AISC 341-10 Table J9-2	2
Limits on water added at the truck or pump		●	N		2
Proper placement techniques to limit segregation		●	N		2
After Concrete Placement (AISC 341-10 Table J9-3)					
Achievement of minimum specified concrete compressive strength at specified age		●	N	AISC 341-10 Table J9-3	2
1705.2.4 Cold-formed Steel Trusses Spanning 60-feet or Greater					
Verify temporary installation restraint/bracing installed in accordance with the approved shop drawings		●	N	Table 1705.2.4	1,4
Verify permanent individual truss member restraint/bracing installed in accordance with the approved shop drawings		●	N		1,2

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.3 Concrete Construction					
Inspect reinforcing steel, including prestressing tendons, and verify placement.		●	Y	Table 1705.3	2
Inspect reinforcing steel welding in accordance with steel construction section above		●	Y		2
Inspect anchors cast in concrete		●	Y		2
Inspect anchors post-installed in hardened concrete members	●		Y		1,2
Verify use of approved design mix		●	Y		2
Prior to placement fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	●		Y		2
Inspect concrete and shotcrete placement for proper application techniques	●		Y		2
Inspect for maintenance of specified curing temperature and techniques		●	Y		2
Inspect prestressed concrete for:					1,2
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		1,2
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		2
Inspect formwork for shape, location and dimensions of the concrete member being formed		●	Y		1,2
1705.4 Masonry Construction					
Inspect masonry construction in accordance with 1705.4 and TMS 602-13/ACI 530.1-13/ASCE 6-13 Article 1.6				TMS 602-13/ACI 530.1-13 ASCE 6-13 Article 1.6	1,2
Level A Quality Assurance (Table 3)					
Prior to construction verifiy certificates of compliance		●	Y		4
Level B Quality Assurance (Table 4)					
Test as follows:					
Verify slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.5B.1.b.3 for self-consolidation grout		●	Y		2
Verify f'm and f'aac in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.4B prior to construction, and for every 5000 square feet during construction		●	Y		2
Inspections as follows:					
Verify compliance with the approved submittals and project specifications		●	Y		4
At the start of masonry construction, verify:					
a. Proportions of site-prepared mortar		●	Y		2
b. Construction of mortar joints		●	Y		2
c. Grade and size of prestressing tendons and anchorages		●	N		2
d. Location of reinforcement, connectors, prestressing tendons and anchorages		●	Y		2
e. Prestressing technique		●	N		2
f. Properties of thin-bed mortar for AAC masonry. (Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)	●	●	N		2
Prior to grouting, verify:					
a. Grout space is clean		●	Y		2
b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		●	Y		2
c. Placement of reinforcing and connectors, and prestressing tendons and anchorages		●	Y		2
d. Proportions of site-prepared grout and prestressing grout for bonded tendons		●	Y		2
e. Construction of mortar joints		●	Y		2
During masonry construction, verify:					
a. Size and location of structural members		●	Y		1,2
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction		●	Y		1,2
c. Welding of reinforcement	●		Y		1,2
d. Preparation, construction and protection of masonry during cold weather (Temperature below 40°F) or hit weather (Temperature above 90°F)		●	Y		2
e. Application and measurement of prestressing force	●		N		2
f. Placement of grout and prestressing grout for bonded tendons is in compliance	●		Y		2
g. Placement of AAC masonry units and construction of thin-bed mortar joints. (Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)	●	●	N		2
Observe preparation of grout specimens, mortar specimens and/or prisms		●	Y		2
Level C Quality Assurance (Table 5)					
Tests as follows:					
Verify f'm and f'aac in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.4B prior to construction, and for every 5000 square feet during construction		●	N		2
Verify proportions of materials in premixed or pre-blended mortar, prestressing group and grout other than self-consolidation grout as delivered to the project site		●	N		2
Verify slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.5B.1.b.3 for self-consolidation grout		●	N		2
Tests as follows:					
Verify compliance with approved submittals and project specifications		●	N		1,4
Verify:					
a. Proportions of site-prepared mortar, grout and prestressing grout for bonded tendons		●	N		2
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		●	N		2
c. Placement of masonry units and construction of mortar joints		●	N		2
d. Placement of reinforcement, connectors and prestressing tendons and anchorages	●		N		2
e. Grout space prior to grouting	●		N		2
f. Placement of grout and prestressing grout for bonded tendons	●		N		2
g. Size and location of structural elements		●	N		2
h. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames and other construction	●		N		2
i. Welding of reinforcement	●		N		2
j. Preparation, construction, and protection of masonry during cold weather (Temperature below 40°F) or hot weather (Temperature above 90°F)		●	N		2
k. Application and measurement of prestressing force	●		N		2
l. Placement of AAC masonry units and construction of thin-bed mortar joints	●		N		2
m. Properties of thin-bed mortar for AAC masonry	●		N		2
Observe preparation of grout specimens, mortar specimens and/or prisms	●		N		2

Inspections & Testing	Continuous	Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.5 Wood Construction					
Inspect prefabricated wood structural elements in accordance with Section 1704.2.5		●	N	1705.5	1
High load diaphragms:		●	N	1705.11 High wind and Seismic areas	1,2
a. Verify sheathing grade and thickness					
b. Verify nominal size of framing members and adjoining panel edges					
c. Verify nail or staple diameter and length					
d. Verify number of fastener lines					
e. Verify spacing between fasteners in each line and at panel edges					
Shearwalls:		●	N		1,2
a. Verify sheathing grade and thickness					
b. Verify nominal size of framing members and adjoining panel edges					
c. Verify nail or staple diameter and length					
d. Verify number of fastener lines					
e. Verify spacing between fasteners in each line and at panel edges					
f. Location and size of holdowns					
Verify nailing, bolting, anchoring and fastening of:		●	N		1,2
a. Drag struts and collectors					
b. Braces					
c. Hold-downs					
Metal-plate-connected wood trusses spanning 60 feet or greater:					
a. Verify temporary installation restraint/bracing installed in accordance with approved shop drawings		●	N		1,2
b. Verify permanent individual truss member restraing/bracing installed in accordance with the approved shop drawings		●	N		1,2
1705.6 Soils					
Verify materials below shallow foundation are adequate to achieve the required bearing capacity		●	Y	Table 1705.6	2
Verify excavation are extended to proper depth and have reached proper material		●	Y		2
Perform classification and testing of compacted fill materials		●	Y		2
Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	●		Y		2
Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly		●	Y		2
1705.7 Driven Deep Foundation Elements					
Verify materials, sizes and lengths	●		N	Table 1705.7	2
Determine capacities of test elements and conduct additional load tests when required. Refer to project specifications	●		N		2
Maintain complete and accurate records for each element	●		N		2
Observe and verify drilling operations	●		N		2
a. Verify element locations and plumbness					
b. Verify type and size of hammer					
c. Record number of blows per foot of penetration					
d. Determine required penetration to achieve specified capacity					
e. Record pile tip and butt elevations					
f. Document any damage to any foundation element					
For steel elements, perform additional inspection in accordance with 1705.2 and AISC 341-10. Table J10-1			N	AISC 341-10 Table J10-1	1,2
For concrete elements and concrete-filled elements, perform additional inspections in accordance with 1705.3			N		1,2
For specialty elements, perform additional inspections as required in the project specifications.			N		1,2
1705.8 Cast-In-Place Deep Foundations					
Maintain complete and accurate records for each element	●		N	Table 1705.8	2
Observe and verify drilling operations	●		N		2
a. Verify element locations and plumbness					
b. Verify element diameter					
c. Verify bell diameter (if applicable)					
d. Verify element lengths					
e. Verify embedment depth into bedrock (if applicable)					
f. Verify adequate end-bearing strata capacity					
g. Record concrete or grout volumes					
For concrete elements, perform additional inspections in accordance with 1705.3			N		1
1705.9 Helical Piles					
Maintain complete and accurate records for each element		●	N	Table 1705.9	2
Observe and verify drilling operations	●		N		2
a. Verify pile locations					
b. Verify installation equipment used					
c. Verify pile dimensions					
d. Verify tip elevations					
e. Verify final depth					
f. Verify final installation torque					
g. Other data as required by the project specifications					
1705.11 Wind Resistance					
Provide inspections when required by 1705.11		●	N		1,4
a. Structural wood				1705.11.1	
b. CFS light frame construction				1705.11.2	
c. Wind resisting components				1705.11.3	
1705.12 Seismic Resistance					
Maintain complete and accurate records for each element		●	N		1,4
a. Structural steel				1705.12.1	
b. Structural wood				1705.12.2	
c. CFS light frame construction				1705.12.3	
d. Designated seismic systems				1705.12.4	
e. Architectural components				1705.12.5	
f. Plumbing, Mechanical, Electrical components				1705.12.6	
1705.13 Testing and Qualification for Seismic Resistance					
Test and qualify seismic resistance in accordance with 1705.13 and the project specifications		●	N		1,4
1705.14 Sprayed Fire-Resistant Materials (SFRM)					
Inspect sprayed fire-resistant materials in accordance with 1705.14 and the project specifications		●	N		1,2
a. Condition of substrate					
b. Thickness of application					
c. Density					
d. Bond strength adhesion/cohesion					
e. Condition of finished application					
1705.15 Mastic and Intumescent Fire-Resistant Coatings					
Perform inspections in accordance with AWCI 12-B and 1705.15		●	N	AWCI 12-B	1,2
1705.16 Exterior Insulation and Finish Systems (EIFS)					
Perform inspections in accordance with project specifications and 1705.16		●	N		1,2
1705.17 Fire-resistant Penetrations and Joints					
Perform inspections in accordance with project specifications and 1705.17		●	N	1705.17.1, 1705.17.2	1,4
1705.18 Smoke Control					
Perform testing in accordance with project specifications and 1705.18		●	N		1,7

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NORTH CAROLINA PROFESSIONAL SEAL 085434 ENGINEER STEVEN M. COOPER
10/13/2025

MOSELEY, INC. ENGINEERING CORPORATION C-3469 NORTH CAROLINA CHARLOTTE

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

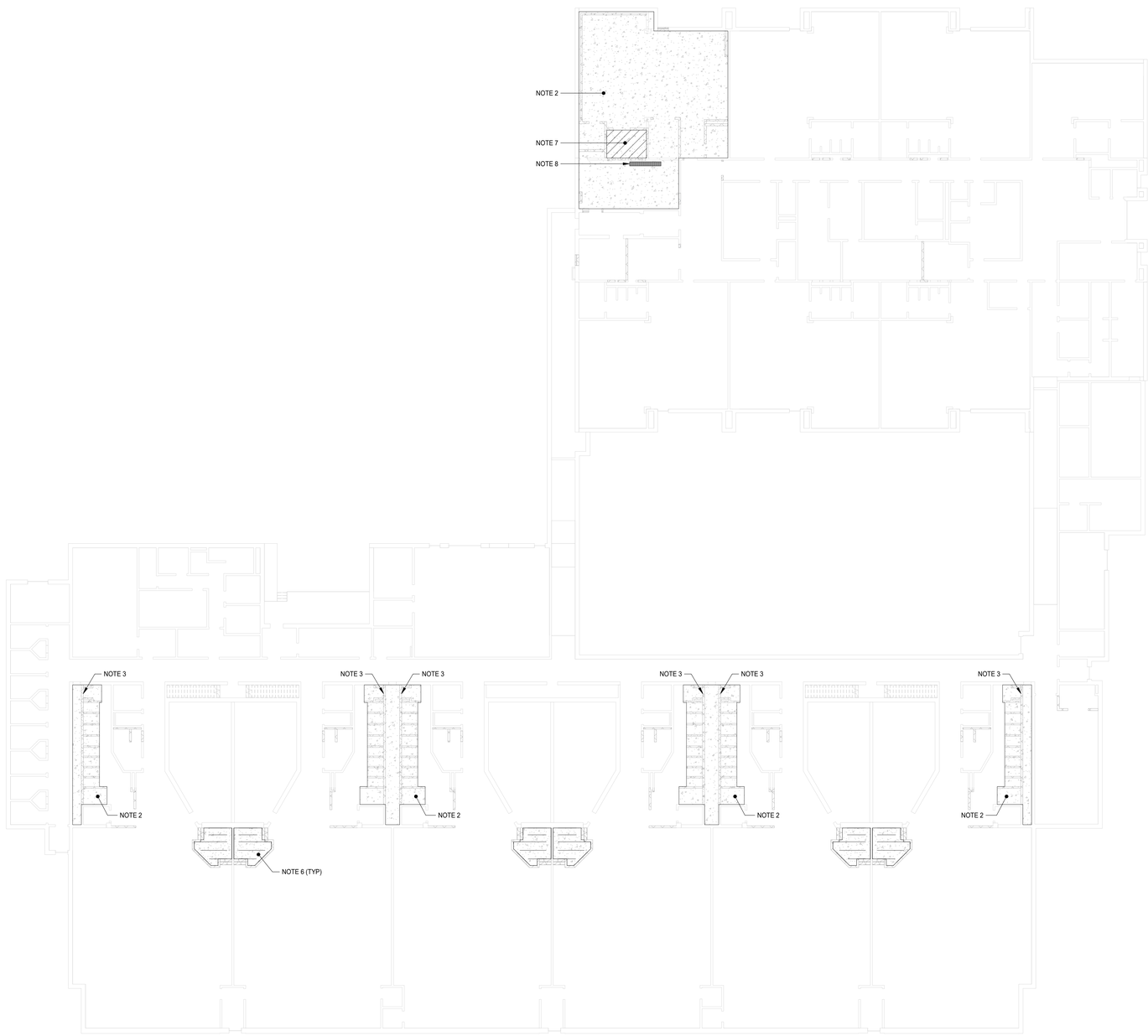
PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

STATEMENT OF SPECIAL INSPECTIONS

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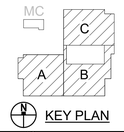


OVERALL FIRST FLOOR PLAN

1/16" = 1'-0"

OVERALL FIRST FLOOR PLAN NOTES:

1. FINISHED FIRST FLOOR ELEVATION = 304.00' = REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
2. SAW-CUT AND REPLACE EXISTING SLAB-ON-GRADE WITH 4" NORMAL WEIGHT CONCRETE SLAB-ON-GRADE REINFORCED WITH 4x4-W2.9xW2.9 WWF (AT 1 1/2" FROM TOP OF SLAB OVER VAPOR BARRIER OVER 6" GRANULAR BASE COURSE, UNO. SLAB AREAS SHOWN ARE APPROXIMATE AND NOT ALL SLAB AREAS ARE SHOWN ON PLAN. EXTENTS OF WORK SHALL BE AS REQUIRED FOR UNDERGROUND UTILITY WORK. CONTRACTOR SHALL FINISH SLAB TO MATCH ADJACENT EXISTING SLAB AND FIELD VERIFY EXISTING SLAB THICKNESS.
3. REMOVE AND REPLACE EXISTING LOAD-BEARING CMU WALL. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING OF EXISTING STRUCTURE, REFER TO DRAWING S0.1 FOR TEMPORARY SHORING GENERAL NOTES. DEMOLISH EXISTING WALL DOWN TO FINISHED FLOOR. REFER TO "TYPICAL DETAIL AT NEW CMU WALL" ON DRAWING S4.1.
4. NEW NON-LOAD BEARING CMU PARTITION WALLS ARE NOT NOTED ON PLAN, REFER TO ARCHITECTURAL DRAWINGS FOR WALL THICKNESS AND LOCATION, AND "TYPICAL DETAIL AT NEW CMU WALL" ON DRAWING S4.1.
5. CMU WALL INFILL AT EXISTING OPENINGS ARE NOT NOTED ON PLAN, REFER TO ARCHITECTURAL DRAWINGS AND "CMU WALL INFILL AT EXISTING OPENING" ON DRAWING S4.1. FOR WALL INFILL INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING OPENING SIZE AND LOCATION.
6. REFER TO DRAWING S2.2 FOR DIRECT SUPERVISION PLATFORM PLAN AND SECTIONS.
7. HATCH INDICATES EXTENT OF 4" SLAB DEPRESSION, REFER TO "DETAIL AT SLAB DEPRESSION" ON DRAWING S3.1 AND COORDINATE DIMENSIONS WITH WALK-IN COOLER MANUFACTURER REQUIREMENTS.
8. HATCH INDICATES LOCATION OF TRENCH DRAIN, REFER TO "DETAIL AT TRENCH DRAIN" ON DRAWING S3.1 AND COORDINATE DIMENSIONS WITH PLUMBING DRAWINGS AND MANUFACTURER REQUIREMENTS.
9. REFER TO DRAWING S0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
10. REFER TO DRAWINGS S3.1 AND S4.1 FOR TYPICAL DETAILS AND SCHEDULES.



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NORTH CAROLINA PROFESSIONAL SEAL 042434 ENGINEER KAREN M COOK

10/13/2025

MOSELEY, INC. ENGINEERS ENVIRONMENTAL CONSERVATION C-3469 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

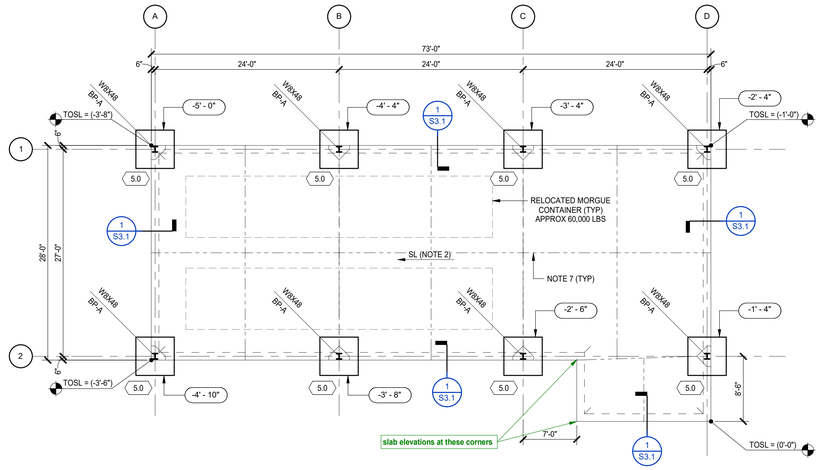
PROJECT NO:	642088
DATE:	10/13/2025

REVISIONS	
DATE	DESCRIPTION

OVERALL FIRST FLOOR PLAN

S1.1

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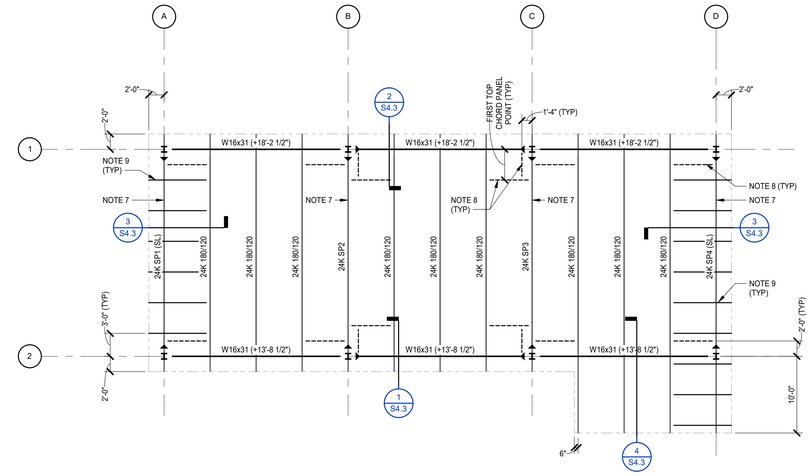
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MORGUE CONTAINER SHELTER FOUNDATION PLAN

1/8" = 1'-0"

MORGUE CONTAINER SHELTER FOUNDATION PLAN NOTES:

1. FINISHED FIRST FLOOR ELEVATION = 302.00' = REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
2. FLOOR CONSTRUCTION SHALL BE 6" NORMAL WEIGHT CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 BARS AT 16" OC EA WAY (AT 2" FROM TOP OF SLAB) OVER 6" GRANULAR BASE COURSE, UNO. TOP OF SLAB ELEVATIONS ARE INDICATED AT CORNERS, SLAB SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN.
3. BASE COURSE SHALL BE A CLEAN, DENSELY-GRADED "CRUSHER RUN" MATERIAL WITH A BALANCED FINE CONTENT, SUCH AS NCDOT ABC STONE. 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.
4. TOP OF ALL FOOTINGS SHALL BE AS INDICATED ON PLAN.
5. TOP OF SLAB ELEVATIONS AT CORNERS SHALL BE AS INDICATED ON PLAN, SLAB SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN.
6. PRIOR TO INSTALLATION OF NEW FOOTINGS, CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES AND NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS WITH NEW FOOTINGS.
7. REFER TO "SLAB-ON-GRADE JOINT LAYOUT GUIDELINES" AND "SLAB-ON-GRADE JOINT DETAILS" ON DRAWING S3.1. CONTRACTOR SHALL COORDINATE SLAB CONTROL JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.
8. REFER TO DRAWING S0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
9. REFER TO DRAWING S3.1 FOR TYPICAL FOUNDATION AND SLAB DETAILS AND SCHEDULES.



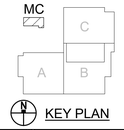
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MORGUE CONTAINER SHELTER ROOF FRAMING PLAN

1/8" = 1'-0"

MORGUE CONTAINER SHELTER ROOF FRAMING PLAN NOTES:

1. TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
2. STEEL ROOF DECK SHALL BE 1 1/2" WIDE RIB ROOF DECK (DECK TYPE 1). REFER TO STEEL DECK SCHEDULE ON DRAWING S4.2.
3. ALL BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES AND SPECIFIED DIMENSIONS, UNO.
4. REFER TO DRAWING S0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
5. REFER TO DRAWING S4.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.
6. WHERE JOISTS BEAR ON TOP OF COLUMN, PROVIDE 1/2" CAP PLATE. COORDINATE SIZE TO ALLOW FOR JOIST BOLTS WHERE REQUIRED.
7. REFER TO MOMENT CONNECTION OF STEEL JOIST TO W-COLUMN FLANGE TYPICAL DETAIL AND REACTION SCHEDULE ON DRAWING S4.2.
8. REFER TO TYPICAL ANGLE BRACE TO JOIST TOP CHORD DETAIL ON DRAWING S4.2.
9. C6x10.5 BETWEEN ROOF DECK FLUTES AT 4'-0" ON CENTER OVER ROOF DECK, REFER TO SECTIONS.



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10/13/2025

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

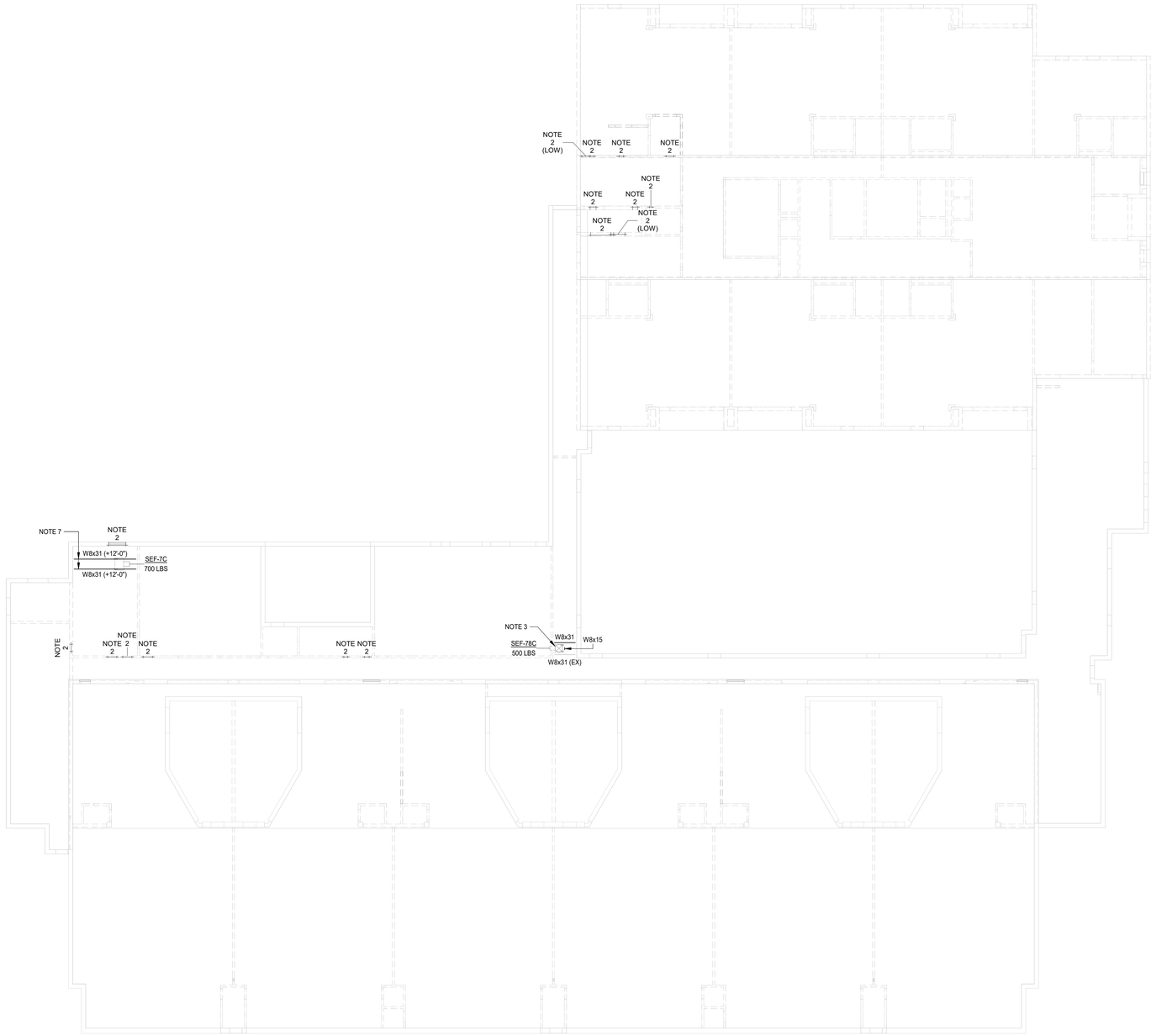
PROJECT NO: 642088
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DATE	DESCRIPTION

MORGUE CONTAINER SHELTER PLANS

S1.2

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OVERALL ROOF PLAN

1/16" = 1'-0"

OVERALL ROOF PLAN NOTES:

1. TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION. FOR NEW BEAMS SUPPORTING OPENINGS IN EXISTING STRUCTURE, BEAM ELEVATIONS SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS.
2. NEW OPENING IN EXISTING CMU WALL, REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING SIZE AND LOCATION, AND "NEW OPENING IN EXISTING LOAD-BEARING CMU WALL" ON DRAWING S4.1. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING OF EXISTING STRUCTURE, REFER TO DRAWING S0.1 FOR TEMPORARY SHORING GENERAL NOTES.
3. NEW OPENING IN EXISTING PRECAST CONCRETE HOLLOW CORE SLAB, REFER TO MECHANICAL DRAWINGS FOR OPENING SIZE AND LOCATION, AND "NEW OPENING IN EXISTING HOLLOW CORE SLAB" ON DRAWING S4.2. NEW STEEL FRAMING SHALL BE INSTALLED PRIOR TO REMOVING EXISTING SLAB.
4. CMU WALL INFILL AT EXISTING OPENINGS ARE NOT NOTED ON PLAN, REFER TO ARCHITECTURAL DRAWINGS AND "CMU WALL INFILL AT EXISTING OPENING" ON DRAWING S4.1. FOR WALL INFILL INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING OPENING SIZE AND LOCATION.
5. NEW NON-LOAD BEARING CMU SECURITY WALLS ARE NOT NOTED ON PLAN, REFER TO ARCHITECTURAL DRAWINGS FOR WALL THICKNESS AND LOCATION, AND "TYPICAL DETAIL AT NEW CMU WALL" ON DRAWING S4.1.
6. NEW CORE DRILL HOLES IN EXISTING CONCRETE SLABS ARE NOT SHOWN ON PLAN, REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR HOLE SIZES AND LOCATIONS. CONTRACTOR SHALL LOCATE AND MARK ALL REINFORCEMENT PRIOR TO CORE DRILLING. CORE HOLE SIZE SHALL BE 3" DIAMETER MAXIMUM AND CONTRACTOR SHALL MOVE CORE HOLES AS REQUIRED TO PROVIDE 1" MINIMUM CLEARANCE TO ALL REINFORCEMENT. CORE DRILLING SHALL NOT BE PERMITTED IN BEAMS NOR WEB OF HOLLOW CORE PLANKS. ALL WORK SHALL BE CONTINUOUSLY INSPECTED BY THE SPECIAL INSPECTOR OF RECORD.
7. NEW MECHANICAL EQUIPMENT TO BE SUPPORTED BY STEEL FRAMING. CONTRACTOR SHALL COORDINATE FRAMING LOCATIONS AND ELEVATIONS WITH FINAL EQUIPMENT PROVIDED. REFER TO "NEW BEAM BEARING ON EXISTING CMU WALL" ON DRAWING S4.1.
8. REFER TO DRAWING S0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
9. REFER TO DRAWINGS S4.1 AND S4.2 FOR TYPICAL DETAILS AND SCHEDULES.

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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER STEPHEN M COLVIN
10/13/2025

MOSELEY, INC. ENGINEERS ENGINEERING CORPORATION C-3469 NORTH CAROLINA CHARLOTTE, N.C.

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO:	642088
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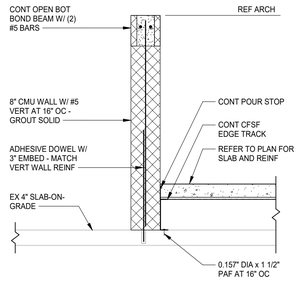
REVISIONS	
DATE	DESCRIPTION

MC
C
A
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KEY PLAN

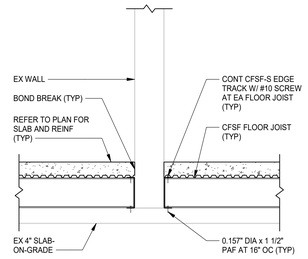
OVERALL ROOF PLAN

S2.1

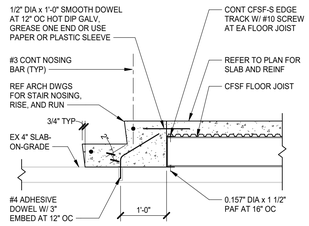
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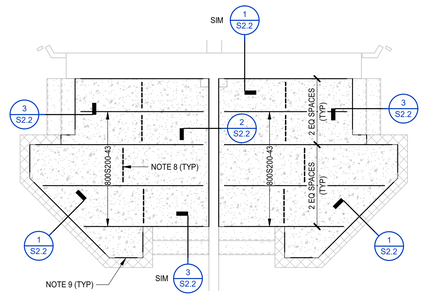
1 SECTION S2.2 | S2.2
3/4" = 1'-0"



2 SECTION S2.2 | S2.2
3/4" = 1'-0"



3 SECTION S2.2 | S2.2
3/4" = 1'-0"

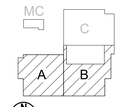


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DIRECT SUPERVISION PLATFORM FRAMING PLAN
1/4" = 1'-0"

DIRECT SUPERVISION PLATFORM FRAMING PLAN NOTES:

1. TOP OF FLOOR SLAB (+1'-0") RELATIVE TO EXISTING FINISHED FIRST FLOOR.
2. FLOOR CONSTRUCTION SHALL BE 3 7/16" LIGHTWEIGHT CONCRETE SLAB ON 9/16" NON-COMPOSITE FLOOR DECK (DECK TYPE 2), 4" TOTAL SLAB THICKENESS. REINFORCE SLAB WITH 4x4-W2.9xW2.9 WWF AT MID-DEPTH. REFER TO STEEL DECK SCHEDULE ON DRAWING S4.2.
3. ALL FLOOR JOISTS ARE EQUALLY SPACED BETWEEN SPECIFIED DIMENSIONS, UNO.
4. PLACE CONCRETE MONOLITHICALLY ON STEEL FLOOR DECK.
5. CONCRETE THICKNESS INDICATED ON FLOOR DECK SHALL BE OF A UNIFORM THICKNESS.
6. REFER TO DRAWING S0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
7. REFER TO DRAWINGS S4.1 AND S4.2 FOR TYPICAL DETAILS AND SCHEDULES.
8. PROVIDE 800T150-43 BLOCKING AT MID-LENGTH OF FLOOR JOISTS. CLIP BLOCKING TO FLOOR JOIST WITH 16-GAGE BENT PLATE WITH 4" LEGS AND (2) #12 SCREWS AT EACH LEG.
9. PROVIDE CONTINUOUS 800T200-43 TRACK ALONG ALL EDGES OF FLOOR FRAMING.



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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER KRISTEN M COSBY
10/13/2025

MOSELEY, INC. ENGINEERING ENTITY FOR CORPORATION C-3469 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

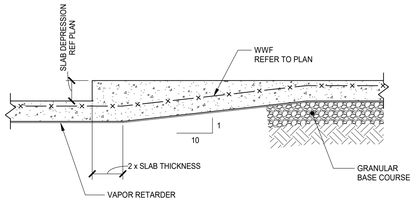
PROJECT NO: 642088
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DATE	DESCRIPTION

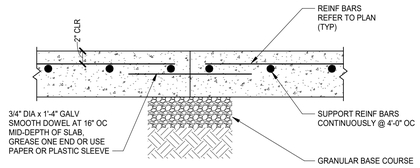
DIRECT SUPERVISION PLATFORM PLAN AND SECTIONS

S2.2

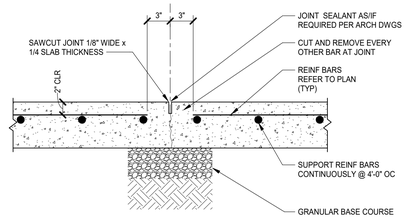
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DETAIL AT SLAB DEPRESSION
NO SCALE



CONSTRUCTION JOINT

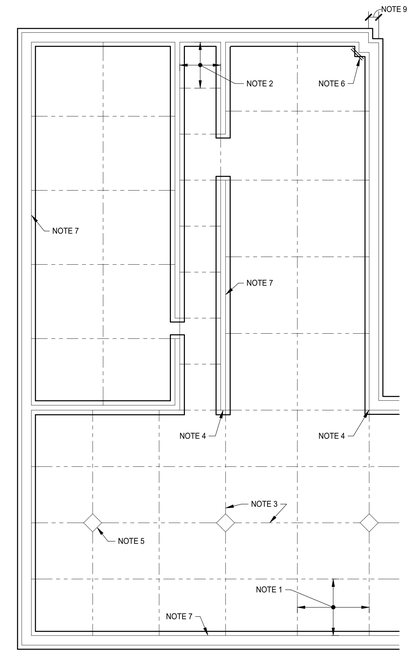


CONTROL JOINT

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.

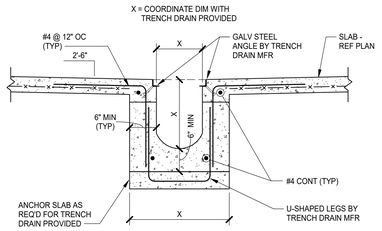
SLAB-ON-GRADE JOINT DETAILS
NO SCALE



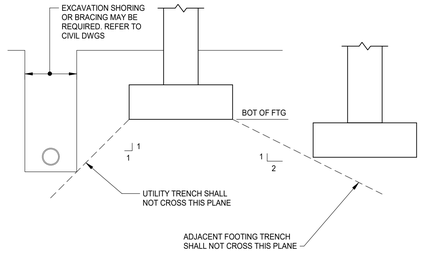
SLAB-ON-GRADE JOINT LAYOUT GUIDELINES
NO SCALE

NOTES:

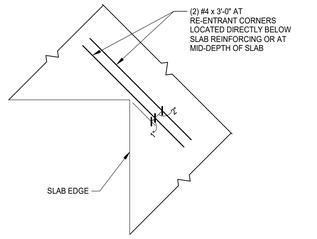
1. PROVIDE CONTROL JOINTS IN SLABS ON GRADE WITHIN THE BUILDING SUCH THAT THE AREA BOUNDED BY CONTROL JOINTS DOES NOT EXCEED 225 SQUARE FEET AND JOINT SPACING DOES NOT EXCEED 15'-0" ON CENTER IN ANY ONE DIRECTION.
2. THE RATIO OF LENGTH TO WIDTH OF THE AREA BOUNDED BY CONTROL JOINTS SHALL NOT EXCEED 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. PROVIDE BOND BREAK WHERE FLOOR ABUTS CMU OR CONCRETE WALL UNLESS NOTED OTHERWISE.
8. CONTROL JOINT NOT REQUIRED IF DIMENSION AT RE-ENTRANT CORNER IS 2'-0" OR LESS. PROVIDE REINFORCING PER "SLAB REINFORCING AT RE-ENTRANT CORNER".
9. CONTROL JOINT / CONSTRUCTION JOINT PLANS SHALL BE SUBMITTED IF NOT SHOWN ON FOUNDATION PLANS.



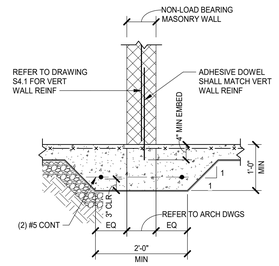
DETAIL AT TRENCH DRAIN
NO SCALE



FOOTING EXCAVATION LIMITS
NO SCALE

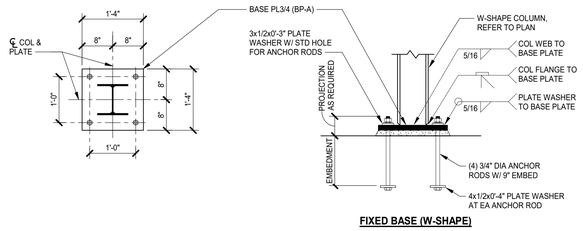


SLAB REINFORCING AT RE-ENTRANT CORNER
NO SCALE



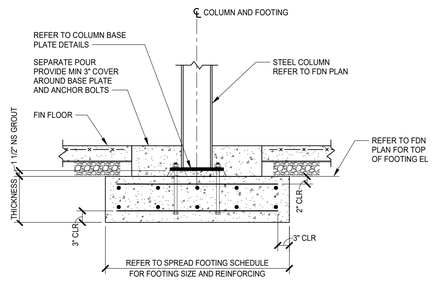
NON-LOAD BEARING PARTITION WALLS

TYPICAL THICKENED SLAB-ON-GRADE DETAIL
NO SCALE



FIXED BASE (W-SHAPE)

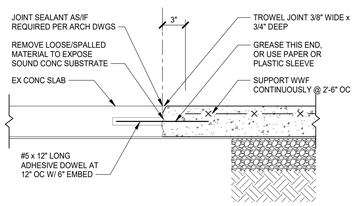
COLUMN BASE PLATE DETAILS
NO SCALE



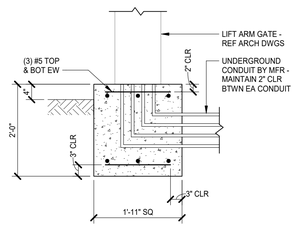
STEEL COLUMN FOOTING DETAIL
NO SCALE

SPREAD FOOTING SCHEDULE

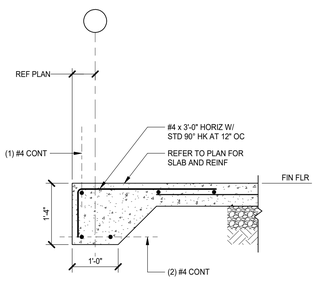
MARK	SIZE			REINFORCING
	LENGTH	WIDTH	THICKNESS	
5.0	5'-0"	5'-0"	1'-4"	(5) #6 EA WAY TOP & BOT



SLAB-ON-GRADE REMOVAL AND REPLACEMENT DETAIL
NO SCALE



FOUNDATION DETAIL AT LIFT ARM GATE
NO SCALE



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

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NORTH CAROLINA PROFESSIONAL SEAL 025434 ENGINEER KAREN M COOK
10/13/2025

MOSELEY, INC. ENGINEERING CORPORATION C-3469 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

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J-397-SJD/DWC

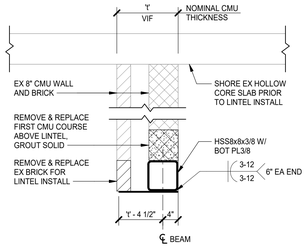
PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

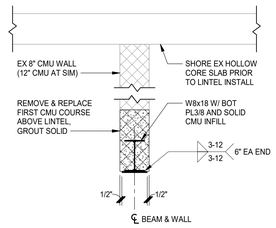
FOUNDATION AND SLAB TYPICAL DETAILS AND SECTIONS

S3.1

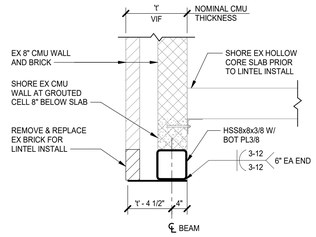
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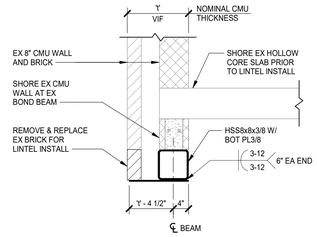
SECTION AT TYPICAL WALL



SECTION AT CMU WALL ONLY



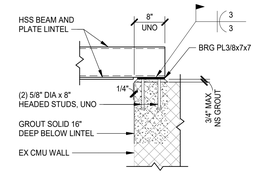
SECTION AT HIGH HOLLOW CORE ROOF SLAB



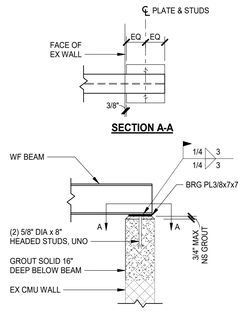
SECTION AT LOW HOLLOW CORE ROOF SLAB

NEW OPENING IN EXISTING LOAD-BEARING CMU WALL

NO SCALE



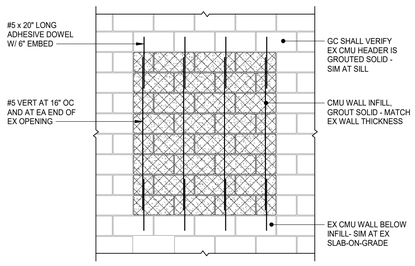
SECTION AT LINTEL BEARING



SECTION AT PERPENDICULAR WALL

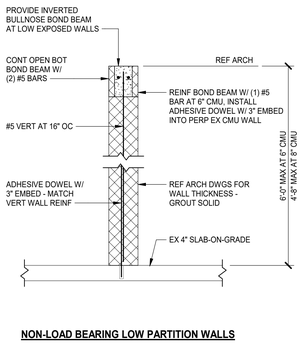
NEW BEAM BEARING ON EXISTING CMU WALL

NO SCALE



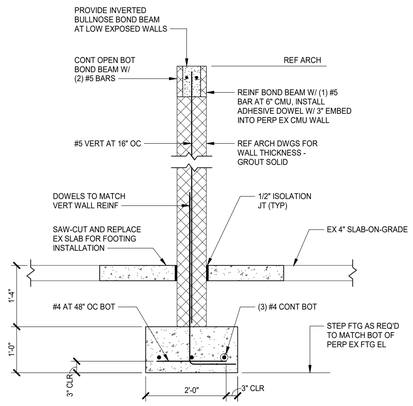
CMU WALL INFILL AT EXISTING OPENING

NO SCALE

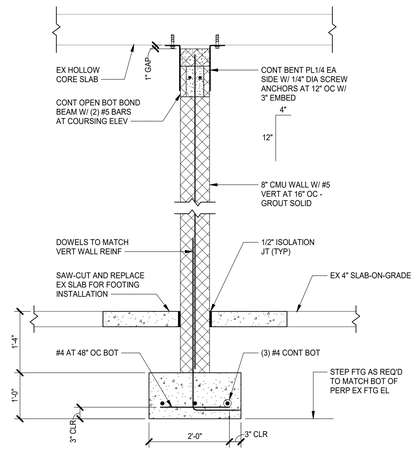


NON-LOAD BEARING LOW PARTITION WALLS

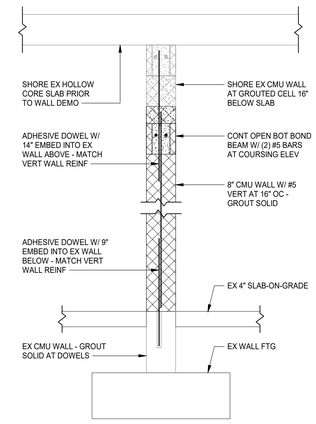
NOTE: FOR NON-LOAD BEARING PARTITION WALLS SUPPORTED BY NEW SLAB-ON-GRADE, REFER TO TYPICAL THICKENED SLAB-ON-GRADE DETAIL ON DRAWING S3.1.



NON-LOAD BEARING PARTITION WALLS



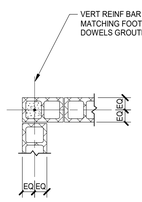
NON-LOAD BEARING SECURITY WALLS



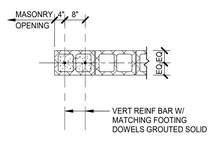
LOAD-BEARING WALLS

TYPICAL DETAIL AT NEW CMU WALL

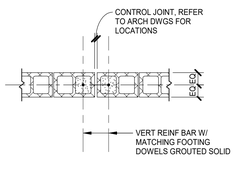
NO SCALE



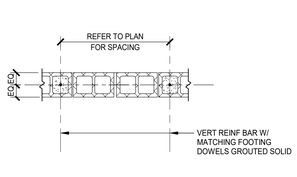
CORNER



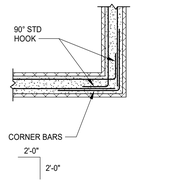
JAMB AT CMU BOND BEAM LINTEL



VERTICAL CONTROL JOINTS



TYPICAL REINFORCED WALL



BOND BEAM PLAN DETAIL AT CORNER

NOTES:

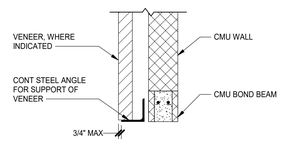
1. REINFORCING BAR SIZE INDICATED IN SECTIONS.
2. DETAILS ARE PROVIDED FOR VERTICAL REINFORCING STEEL PLACEMENT ONLY. REFER TO ARCHITECTS DRAWINGS FOR SPECIFIC MASONRY DETAILS.
3. DO NOT PLACE CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING.

CMU WALL REINFORCING DETAILS

NO SCALE

LINTEL SCHEDULE

MASONRY CLEAR SPAN	DIAGRAM	BOND BEAM (W x H)	REINFORCING	STEEL
0'-0" TO 3'-4"		8 x 8	(2) #5 CONT	
3'-5" TO 4'-8"		8 x 16	(2) #5 CONT. EA COURSE	
4'-9" TO 7'-4"		8 x 24	(2) #6 CONT. EA COURSE	
0'-0" TO 4'-0"	⌟	-	-	L4x4x3/8 LOOSE ANGLE LINTEL
4'-1" TO 7'-4"	⌟	-	-	L6x4x3/8 LOOSE ANGLE LINTEL



LOOSE ANGLE LINTEL (CMU BACKUP)

LINTEL NOTES

1. LINTELS FOR ALL OPENINGS IN NEW BEARING WALLS ARE DEFINED IN THE LINTEL SCHEDULE BASED ON MASONRY OPENING SPAN. REFER TO TYPICAL DETAIL FOR NEW OPENINGS IN EXISTING CMU WALLS.
2. LINTELS FOR ARCHITECTURAL OPENINGS IN NON-LOAD BEARING WALLS SHALL BE CONSTRUCTED PER NOTES A, B OR C BELOW.

   A. STEEL ANGLE LINTELS

   PROVIDE ONE ANGLE FOR EACH NOMINAL 4" OF WALL THICKNESS PER THE FOLLOWING SCHEDULE.

MASONRY OPENING	ANGLE SIZE
UP TO 5'-0"	L3 1/2x3 1/2x 5/16
5'-1" TO 6'-0"	L4x3 1/2x 5/16 (LLV)
6'-1" TO 7'-0"	L5x3 1/2x 3/8 (LLV)
OVER 7'-0"	AS DETAILED

   FOR OPENINGS IN 6" CMU REQUIRING STEEL LINTELS, PROVIDE WT7x11 UP TO 7'-0" MASONRY OPENING.

   B. REINFORCED BOND BEAM LINTELS

   LINTELS SHALL MATCH THICKNESS OF WALL. REINFORCE 8", 10" AND 12" BOND BEAM WITH (2) #5 BARS AT BOTTOM. REINFORCE 6" BOND BEAM WITH (1) #5 BAR AT BOTTOM. BOND BEAM SHALL BE 8" DEEP FOR OPENING WIDTH UP TO 5'-0", AND SHALL BEAR 8" ON SOLID MASONRY EACH END. BOND BEAM SHALL BE 16" DEEP FOR OPENING WIDTH UP TO 8'-0" AND SHALL BEAR 16" ON SOLID MASONRY EACH END WITH REINFORCING TOP AND BOTTOM. PLACE GROUT MONOLITHICALLY IN BOTH COURSES OF 16" DEEP BOND BEAM.

   C. PRECAST CONCRETE LINTELS

   PRECAST CONCRETE LINTELS SHALL BE 3 5/8" x 7 5/8" FOR EACH NOMINAL 4" THICKNESS OF WALL. REINFORCING SHALL BE (1) #4 TOP AND BOTTOM WITH 1 1/2" COVER. FOR OPENINGS IN 6" CMU, LINTEL SHALL BE 5 5/8" x 7 5/8", REINFORCED WITH (1) #5 TOP AND BOTTOM. MASONRY OPENING WIDTH SHALL BE 5'-0" OR LESS. DO NOT USE PRECAST CONCRETE LINTELS IN EXPOSED LOCATIONS.
3. LINTELS SHALL BEAR 8" ONTO SOLID OR GROUT FILLED MASONRY, UNLESS OTHERWISE INDICATED.
4. LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS GREATER THAN 8" IN WIDTH.
5. LINTELS ARE NOT REQUIRED ABOVE HOLLOW METAL FRAMES IN OPENINGS 3'-4" OR LESS IN 6" NON-BEARING MASONRY PARTITIONS. GROUT HEAD OF FRAMES SOLID BEFORE PLACING MASONRY.
6. ALL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.
7. REFER ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

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NORTH CAROLINA PROFESSIONAL SEAL 038434 ENGINEER JARRETT M. DOOLEY
10/13/2025

MOSELEY, INC. ENGINEERING ENTITIES CERTIFICATE OF CORPORATION C-3469 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina
J-397-SJD/DWC

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

TYPICAL MASONRY DETAILS

S4.1

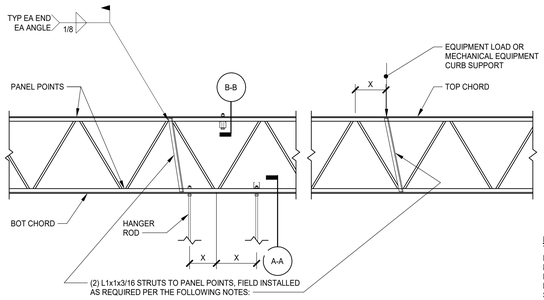
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STEEL DECK SCHEDULE

DECK TYPE 1	1 1/2" - 20 GAGE WIDE RIB ROOF DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AT 36/4 PATTERN, AND AT 6" OC AT ALL EDGES AND END LAPS. FASTEN SIDELAPS WITH #10 TEK SCREWS AT MID-SPAN AND NOT GREATER THAN 24" OC.
DECK TYPE 2	9/16" - 26 GAGE FORM DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH #10 TEK SCREWS AT 30/4 PATTERN, AND AT 6" OC AT ALL EDGES. FASTEN SIDELAPS WITH #10 TEK SCREWS AT MID-SPAN AND NOT GREATER THAN 36" OC.

STEEL DECK FASTENER LAYOUT





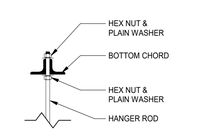
NOTE:
THE GENERAL CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS FOR HANGER SPACING AND JOIST REINFORCING STRUTS WITH MECHANICAL, PLUMBING, AND FIRE PROTECTION TRADES IN ORDER TO ENSURE THAT THESE REQUIREMENTS ARE ACCOUNTED FOR IN THE BID PRICE AND IMPLEMENTED IN THE FIELD. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE REINFORCING STRUTS IN ALL CASES WHERE THE HANGER LOAD EXCEEDS THE MAXIMUM. IF HANGER LOCATIONS ARE COORDINATED TO COMPLY WITH THE MAXIMUM HANGER LOADS INDICATED IN THIS DETAIL, THE NUMBER OF JOIST REINFORCING STRUTS WILL BE MINIMIZED.

K-SERIES JOISTS:

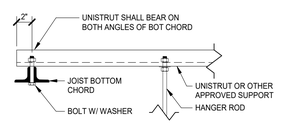
1. WHERE UTILITIES RUN PARALLEL TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD (IF DIRECTLY BELOW JOIST), OR UNISTRUT REACTION (IF PIPE IS BETWEEN JOISTS) DOES NOT EXCEED 200 LBS.
2. WHERE UTILITIES RUN PERPENDICULAR TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD DOES NOT EXCEED 200 LBS.
3. IF INDIVIDUAL HANGER LOAD EXCEEDS 200 LBS ON ANY JOIST, AND DIMENSION 'X' EXCEEDS 6", STRUTS SHALL BE INSTALLED AS INDICATED ABOVE.
4. WHERE MULTIPLE HANGERS ARE LOCATED BETWEEN PANEL POINTS, THE CUMULATIVE LOAD SHALL NOT EXCEED 200 LBS.

GENERAL:

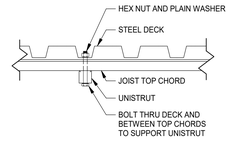
1. C-CLAMPS SHALL NOT BE USED WHERE HANGER LOAD EXCEEDS 50 LBS.
2. REFER TO DRAWING S0.1 FOR STEEL JOIST NOTES.



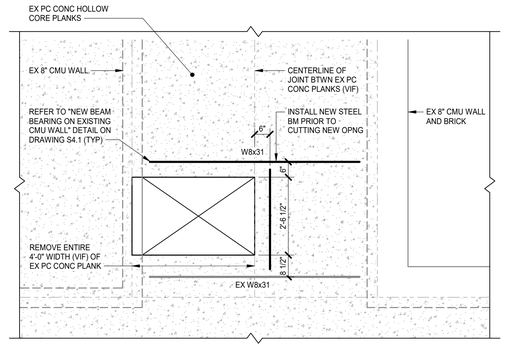
NOTE: CONTRACTOR SHALL PROVIDE DESIGN OF HANGER ASSEMBLY. C-CLAMPS PERMITTED WHEN LOAD IS LESS THAN 50 LBS



SECTION A-A



SECTION B-B

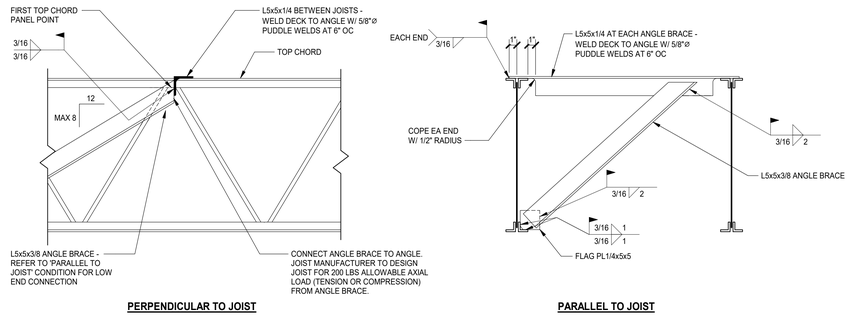


NEW OPENING IN EXISTING HOLLOW CORE SLAB

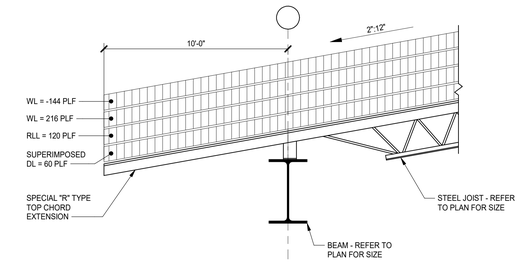
NO SCALE

TYPICAL LOAD SUPPORTED FROM JOIST DETAIL

NO SCALE

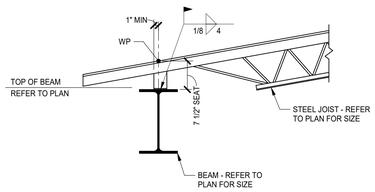


PERPENDICULAR TO JOIST **PARALLEL TO JOIST**



SPECIAL JOIST TOP CHORD EXTENSION LOADING DIAGRAM

NO SCALE



TYPICAL CONNECTION OF K SERIES STEEL JOIST TO STEEL BEAM

NO SCALE

JOIST MOMENT FRAME END REACTION SCHEDULE (BY LOAD CASE)

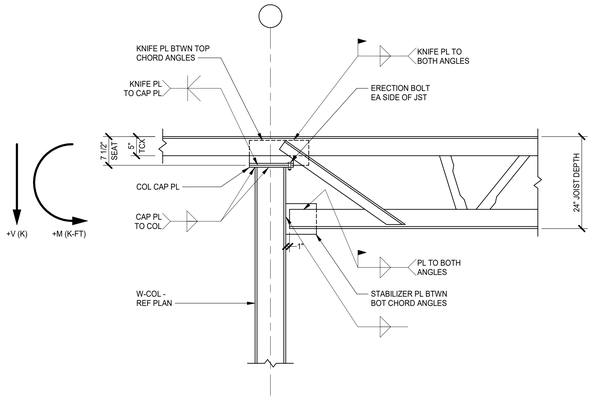
JOIST MARK	DEAD LOAD		ROOF LIVE LOAD		WIND LOAD	
	M_D (K-FT)	V_D (K)	M_L (K-FT)	V_L (K)	M_W (K-FT)	V_W (K)
24K SP1	0.9	1.6	0.6	0.9	±25.0	±3.1
24K SP2	1.0	2.0	0.9	1.9	±36.7	±5.2
24K SP3	1.0	2.0	0.9	1.9	±38.3	±5.3
24K SP4	5.3	2.5	3.2	1.5	±26.1	±3.0

NOTES:

1. DESIGN OF ALL MOMENT CONNECTIONS SHALL BE PROVIDED BY THE FRABRICATOR'S ENGINEER.
2. DESIGN CALCULATIONS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA, SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
3. FABRICATOR SHALL REVIEW SHOP DRAWINGS FOR COORDINATION WITH CONNECTION DESIGN CALCULATIONS PRIOR TO SUBMITTING TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW.
4. LOAD CASE REACTIONS INDICATED ARE BASED ON THE DESIGN LOAD DATA SPECIFIED ON DRAWING S0.1 AND SHALL BE USED WITH ASD DESIGN METHODOLOGY.
5. DEAD LOAD REACTIONS INDICATED INCLUDE THE SELF-WEIGHT OF STRUCTURE AND SUPERIMPOSED DEAD LOAD.
6. WIND LOAD CASE REACTIONS INDICATED ARE FOR ULTIMATE DESIGN WIND SPEED AS DEFINED IN ASCE 7-10.
7. SEISMIC LOAD REACTIONS ARE NOT INDICATED, WIND LOAD IS THE CONTROLLING LATERAL LOAD CASE.
8. REACTIONS INDICATED ARE THE GREATER MAGNITUDE OF THE TWO SUPPORT ENDS.
9. SPECIAL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING UNIFORM LOADS:
   SUPERIMPOSED DEAD LOAD = +60 PLF
   ROOF LIVE LOAD = +120 PLF
   WIND LOAD = +216 PLF / -144 PLF

MOMENT CONNECTION OF STEEL JOIST TO W-COLUMN FLANGE

NO SCALE



TYPICAL ANGLE BRACE TO JOIST TOP CHORD DETAIL

NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 035434 ENGINEER STEVEN M COLE
10/13/2025

MOSELEY, INC. CERTIFICATE OF AUTHORIZATION C-3469 NORTH CAROLINA CHARLOTTE, NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
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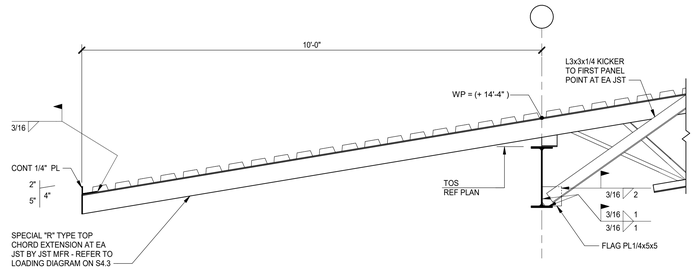
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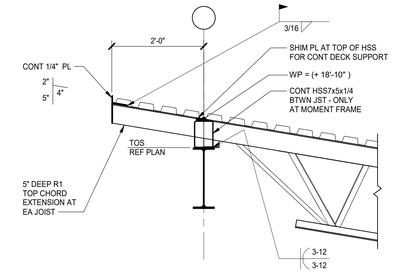
TYPICAL FRAMING DETAILS

S4.2

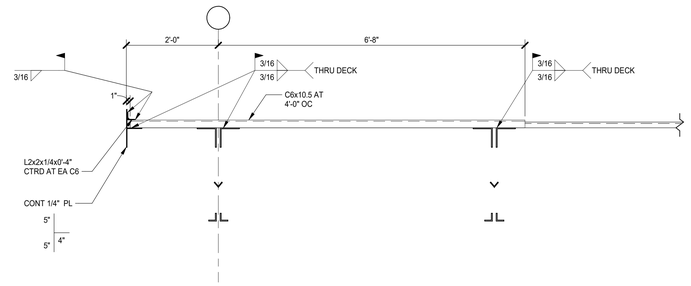
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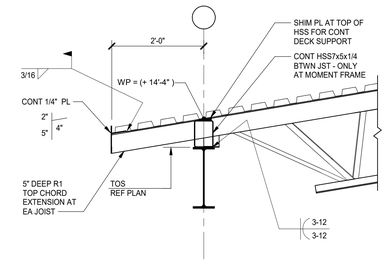
4 S1.2 S4.3 **SECTION**
3/4" = 1'-0"



2 S1.2 S4.3 **SECTION**
3/4" = 1'-0"



3 S1.2 S4.3 **SECTION**
3/4" = 1'-0"



1 S1.2 S4.3 **SECTION**
3/4" = 1'-0"

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FRAMING SECTIONS

S4.3

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ABBREVIATIONS

(E)	EXISTING	ETR	EXISTING TO REMAIN	OPP	OPPOSITE
@	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	CONSTRUCT(ION)	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	VIF	VERIFY IN FIELD
DWG	DRAWING	NO	NORMALLY OPEN	VTR	VENT THROUGH ROOF
DWP	DOMESTIC WATER BOOSTER PUMP	NO., (#)	NUMBER	W	WEST
E	EAST	NOM	NOMINAL	W/	WITH
ED	EMERGENCY SECONDARY ROOF DRAIN	OC	ON CENTER	W/O	WITHOUT
ELEC	ELECTRICAL	OD	OUTSIDE DIAMETER	WB	WATER HAMMER ARRESTER
ELEV	ELEVATION	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WC	WATER CLOSET
EPBD	ELECTRICAL PANELBOARD	OFF	OFFICE	WCO	WALL CLEANOUT
EQ	EQUAL	OH	OVERHEAD	WSHP	WATER SOURCE HEAT PUMP
EQUIP	EQUIPMENT	OPNG	OPENING	WWF	WELDED WIRE FABRIC
				WWM	WELDED WIRE MESH
				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 / P6.1 — ENLARGED PLAN NUMBER; DRAWING WHERE ENALRGED PLAN IS INDICATED
- **DETAIL TAG**: 1 / P6.1 — 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 DOMESTIC 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

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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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

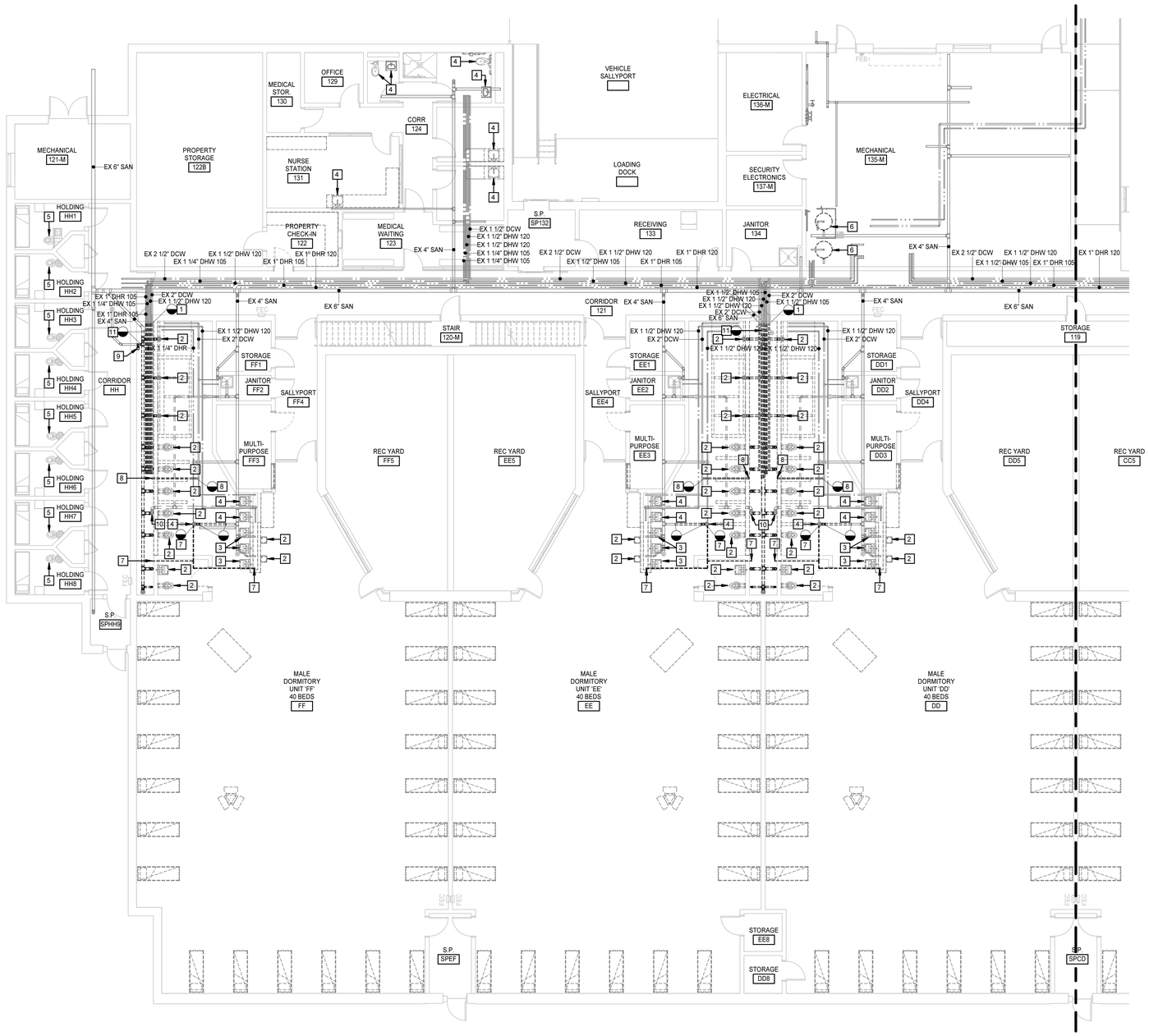
REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

P0.1

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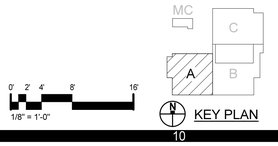
KEYNOTES

APPLIES TO THIS DRAWING

1. REMOVE EXISTING DCW, DHW & DHR ABOVE CEILING BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW CONNECTION.
2. REMOVE EXISTING PLUMBING FIXTURE, FITTINGS AND ALL ACCESSORIES BACK TO POINT INDICATED.
3. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED AND CAP. UNDERGROUND SANITARY PIPING CAN BE CAP FLUSH AT FLOOR AND ABANDON IN PLACE. REFER TO DECOMMISSIONING DETAIL ON SHEET P5-2.
4. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP PIPING FOR NEW CONNECTION.
5. REMOVE EXISTING FLUSH VALVE FOR COMBI FIXTURE AND PREPARE SUPPLY FOR NEW ELECTRONIC FLUSH VALVE. REFER TO PVA-3 FIXTURE SPECIFICATION FOR VALVE.
6. REMOVE EXISTING WATER HEATER AND ALL ASSOCIATED PIPING, FITTINGS AND ACCESSORIES BACK TO DCW AND DHW MAIN.
7. REMOVE EXISTING DHW ABOVE CEILING BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW CONNECTION.
8. REMOVE EXISTING DCW ABOVE CEILING BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW CONNECTION.
9. REMOVE EXISTING VENT ABOVE CEILING BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW CONNECTION.
10. EXISTING VENT THROUGH ROOF TO REMAIN.
11. REMOVE EXISTING SANITARY BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW 4" SAN CONNECTION.

FIRST FLOOR PLAN - PART A DEMOLITION - PLUMBING

1/8" = 1'-0"



1/8" = 1'-0"

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DETENTION ANNEX RENOVATION

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DATE	DESCRIPTION

PLUMBING - DEMOLITION FLOOR PLAN - PART A

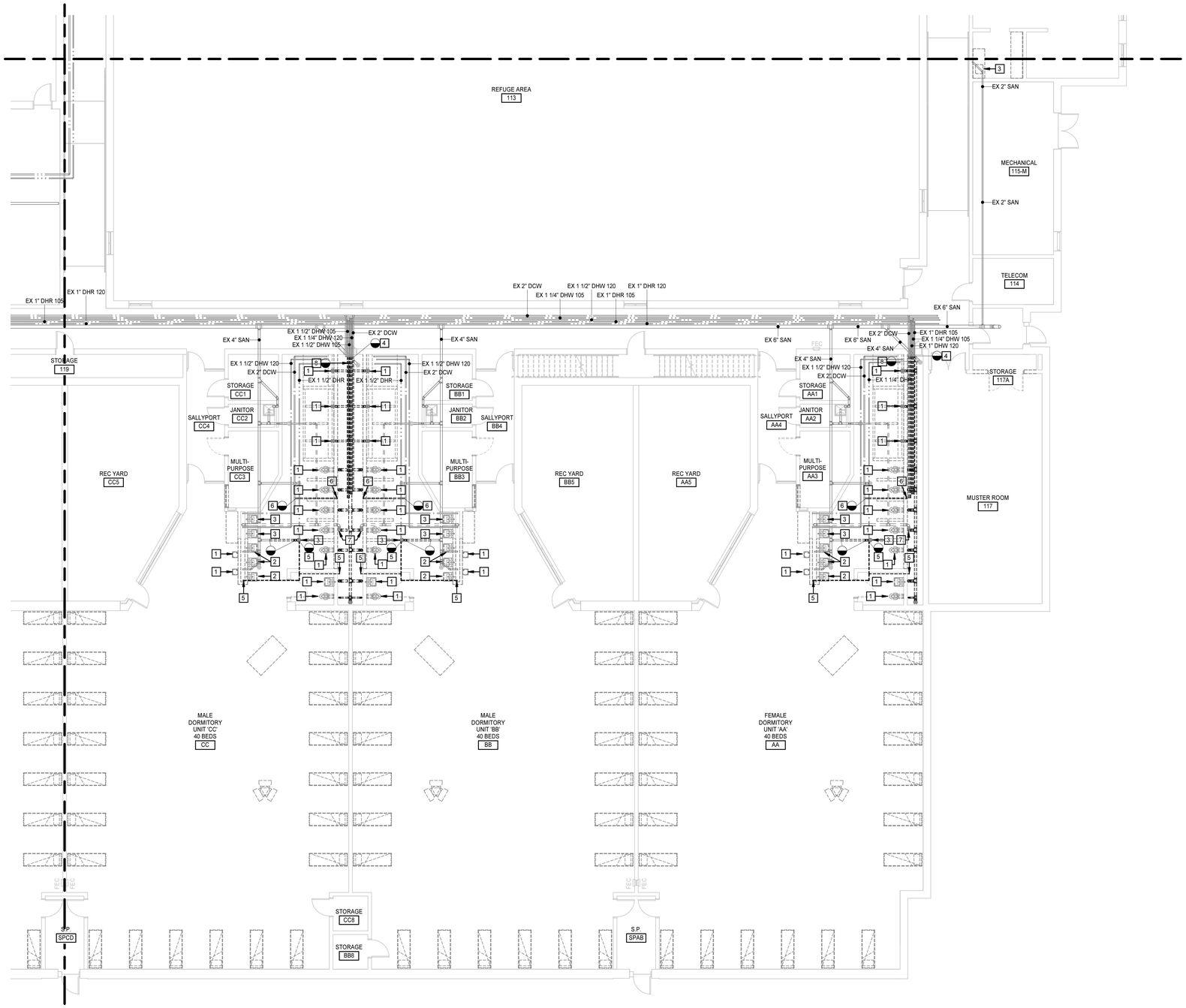
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KEYNOTES

APPLIES TO THIS DRAWING

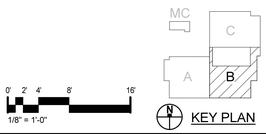
1. REMOVE EXISTING PLUMBING FIXTURE, FITTINGS AND ALL ACCESSORIES BACK TO POINT INDICATED.
2. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED AND CAP. UNDERGROUND SANITARY PIPING CAN BE CAP FLUSH AT FLOOR AND ABANDON IN PLACE. REFER TO DECOMMISSIONING DETAIL ON SHEET P5.2.
3. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP PIPING FOR NEW CONNECTION.
4. REMOVE EXISTING DCW, DHW & DHR ABOVE CEILING BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW CONNECTION.
5. REMOVE EXISTING DHW ABOVE CEILING BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW CONNECTION.
6. REMOVE EXISTING DCW ABOVE CEILING BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW CONNECTION.
7. EXISTING VENT THROUGH ROOF TO REMAIN.
8. REMOVE EXISTING SANITARY BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP FOR NEW 4" SAN CONNECTION.



N

FIRST FLOOR PLAN - PART B DEMOLITION - PLUMBING

1/8" = 1'-0"



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Wake County, North Carolina

PROJECT NO: 642088
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DATE	DESCRIPTION

PLUMBING - DEMOLITION FLOOR PLAN - PART B

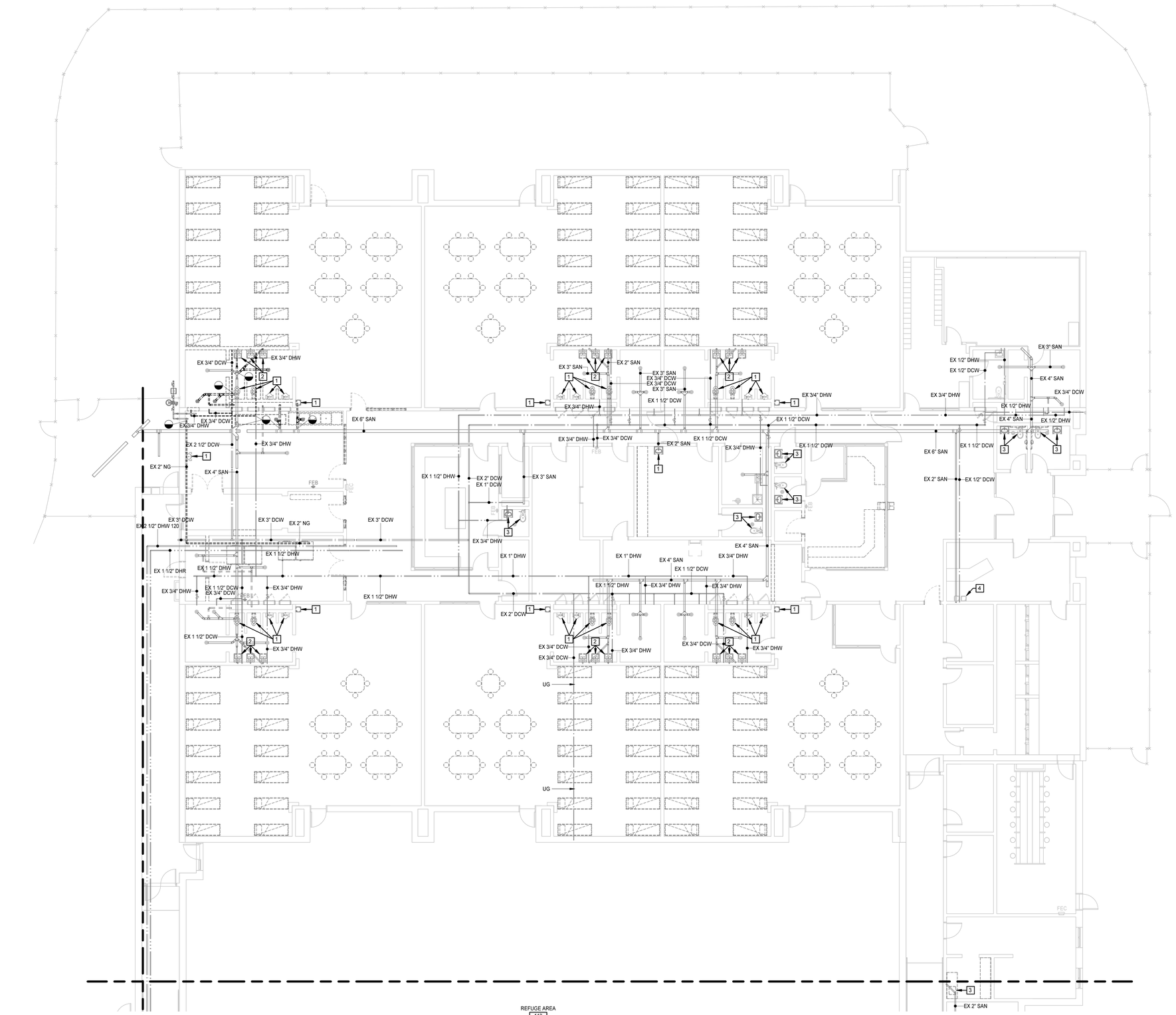
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KEYNOTES

APPLIES TO THIS DRAWING

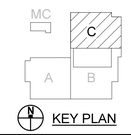
1. REMOVE EXISTING PLUMBING FIXTURE, FITTINGS AND ALL ACCESSORIES AND CAP ALL PIPING AT WALL FLUSH WITH FINISH SUBSTRATE.
2. REMOVE EXISTING PLUMBING FIXTURE, FITTINGS AND ALL ACCESSORIES AND CAP SANITARY AT WALL FLUSH WITH FINISH SUBSTRATE. REMOVE EXISTING DOMESTIC WATER AND VENT PIPING BACK TO ABOVE CEILING AND CAP.
3. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO POINT INDICATED. PREPARE AND TEMPORARILY CAP PIPING FOR NEW CONNECTION.
4. ALL EXISTING PLUMBING EQUIPMENT TO REMAIN.



N

FIRST FLOOR PLAN - PART C DEMOLITION - PLUMBING

1/8" = 1'-0"



0' 2' 4' 8' 16'

1/8" = 1'-0"

KEY PLAN

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PLUMBING - DEMOLITION FLOOR PLAN - PART C

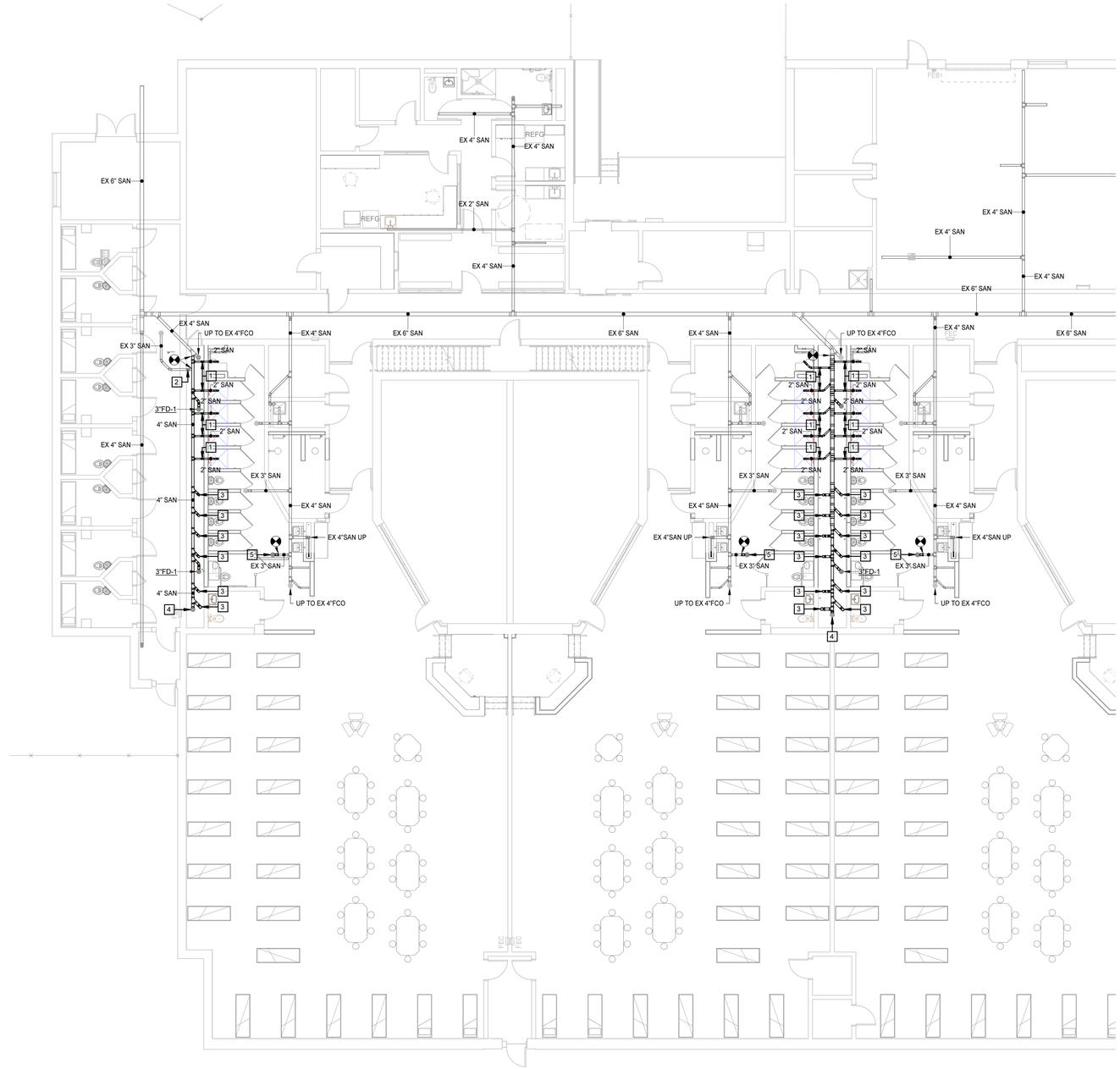
P1.3

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KEYNOTES

APPLIES TO THIS DRAWING

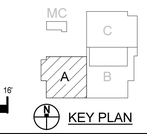
1	1-1/2" V UP
2	EX 2" V UP
3	3" SAN UP.
4	4" SAN UP TO FCO.
5	3" SAN UP TO FLOOR DRAIN.



N

PART A - PLUMBING - FOUNDATION

1/8" = 1'-0"



KEY PLAN

0' 2' 4' 8' 16'

1/8" = 1'-0"

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
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REVISIONS	
DATE	DESCRIPTION

PLUMBING - FOUNDATION PLAN - PART A

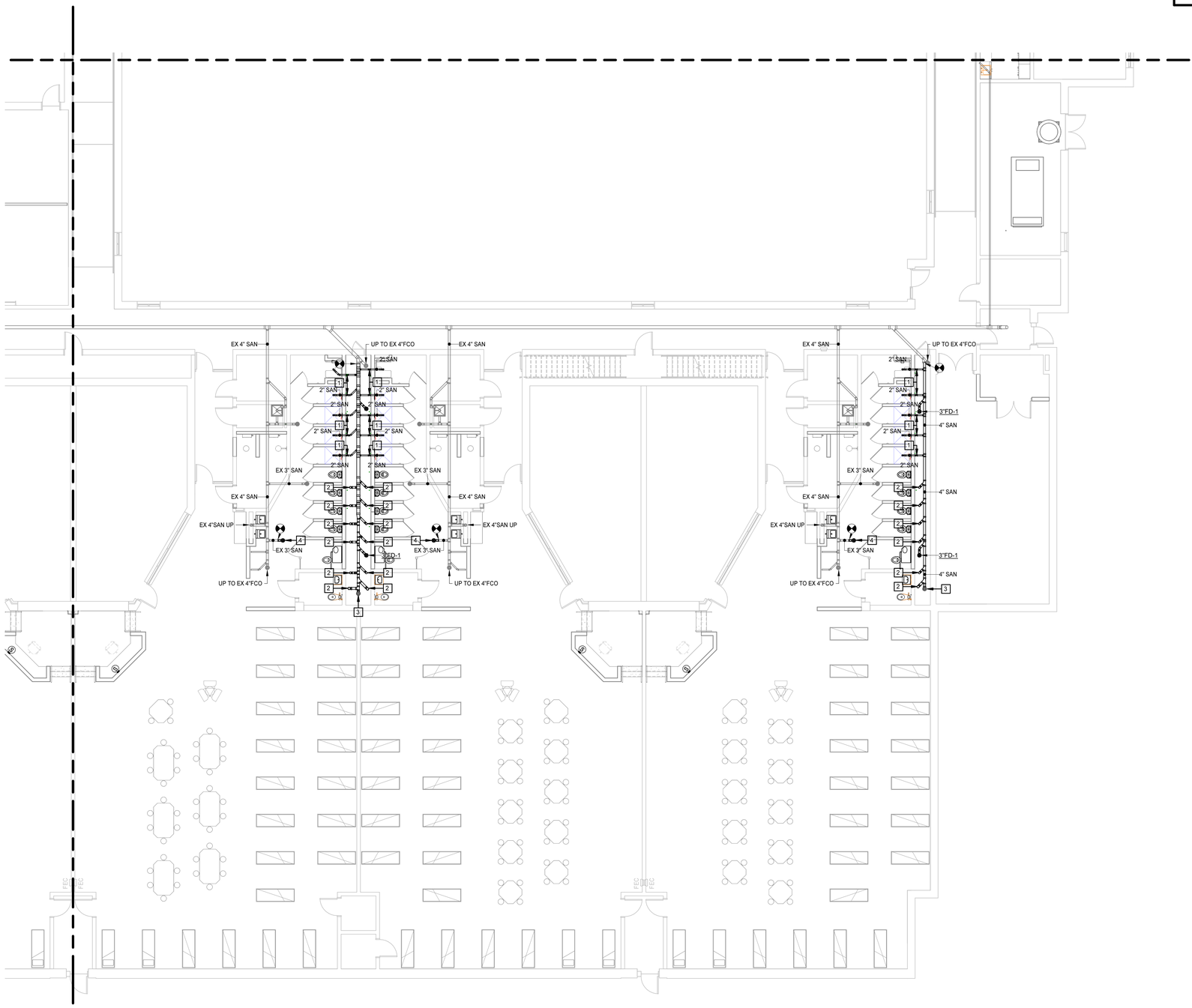
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KEYNOTES

APPLIES TO THIS DRAWING

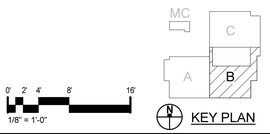
1	1-1/2" V UP
2	3" SAN UP.
3	4" SAN UP TO FCO.
4	3" SAN UP TO FLOOR DRAIN.



N

PART B - PLUMBING - FOUNDATION

1/8" = 1'-0"



0' 2' 4' 8' 16'

1/8" = 1'-0"

N KEY PLAN

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DETENTION ANNEX RENOVATION

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REVISIONS	
DATE	DESCRIPTION

PLUMBING - FOUNDATION PLAN - PART B

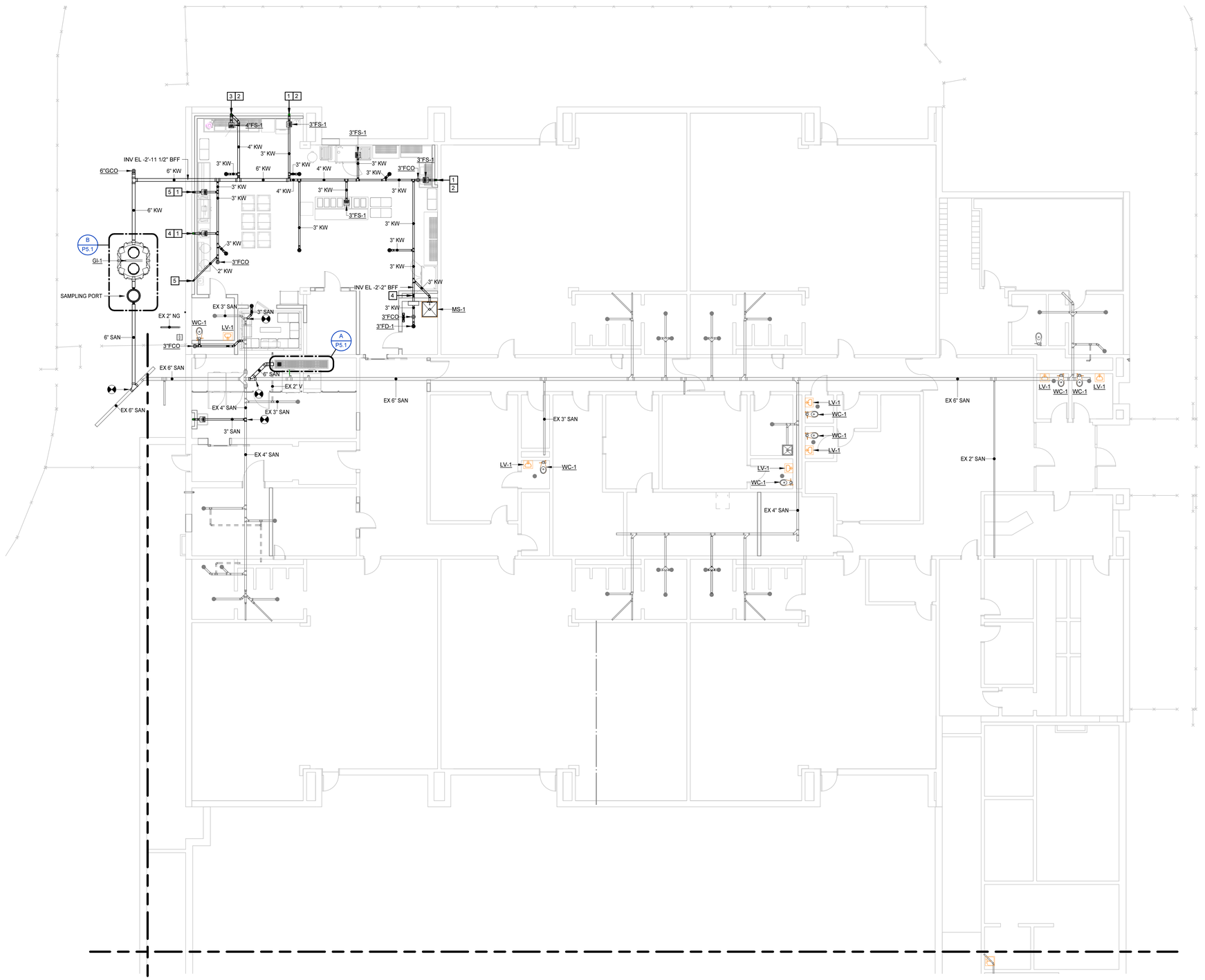
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KEYNOTES

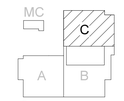
APPLIES TO THIS DRAWING

1. 3" SAN DN.
2. 3" VTR
3. 4" SAN DN.
4. 2" VTR
5. 2" V UP.



PART C - PLUMBING - FOUNDATION

1/8" = 1'-0"



KEY PLAN

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER BRITTNEY T WHITE

MOSELEY ARCHITECTS PLLC REGISTERED ARCHITECTS NC CORPORATION NORTH CAROLINA 50149 CHARLOTTE NC

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

PLUMBING - FOUNDATION PLAN - PART C

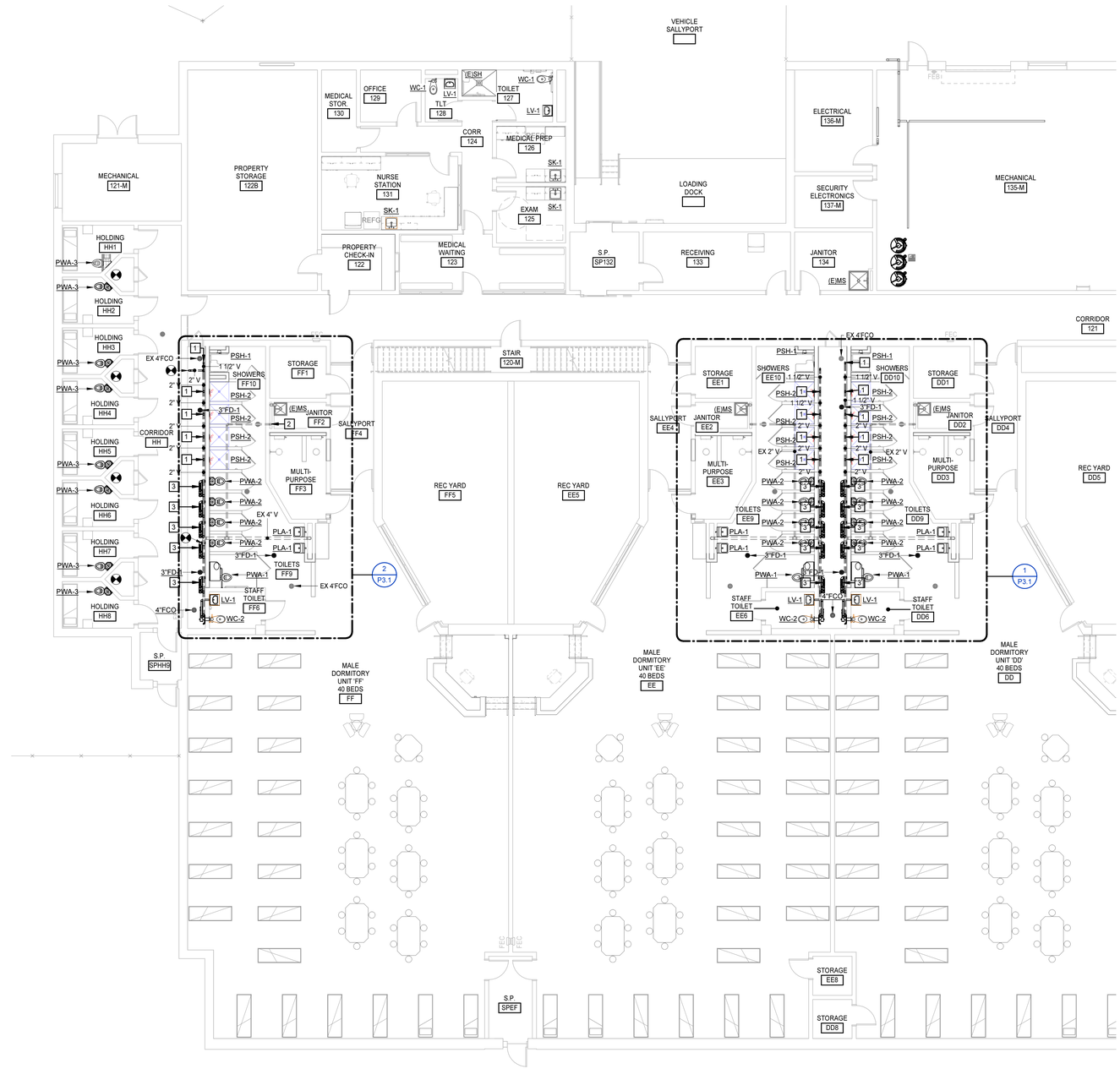
P2.3

10/10/2025 8:15:26 AM

KEYNOTES

APPLIES TO THIS DRAWING

1	1-1/2" V DN
2	EX 2" V DN
3	PROVIDE PINNED CLEANOUT. TYPICAL FOR EACH PWA FIXTURE TYPE.



N

PART A - PLUMBING - SANITARY

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043951 BRIAN T. WHITE 10/13/25

MOSELEY ARCHITECTS PROFESSIONAL CORPORATION NORTH CAROLINA CHARLOTTE, NC 50149

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

PLUMBING - SANITARY FLOOR PLAN - PART A

P2.4

MC C A B

1/8" = 1'-0"

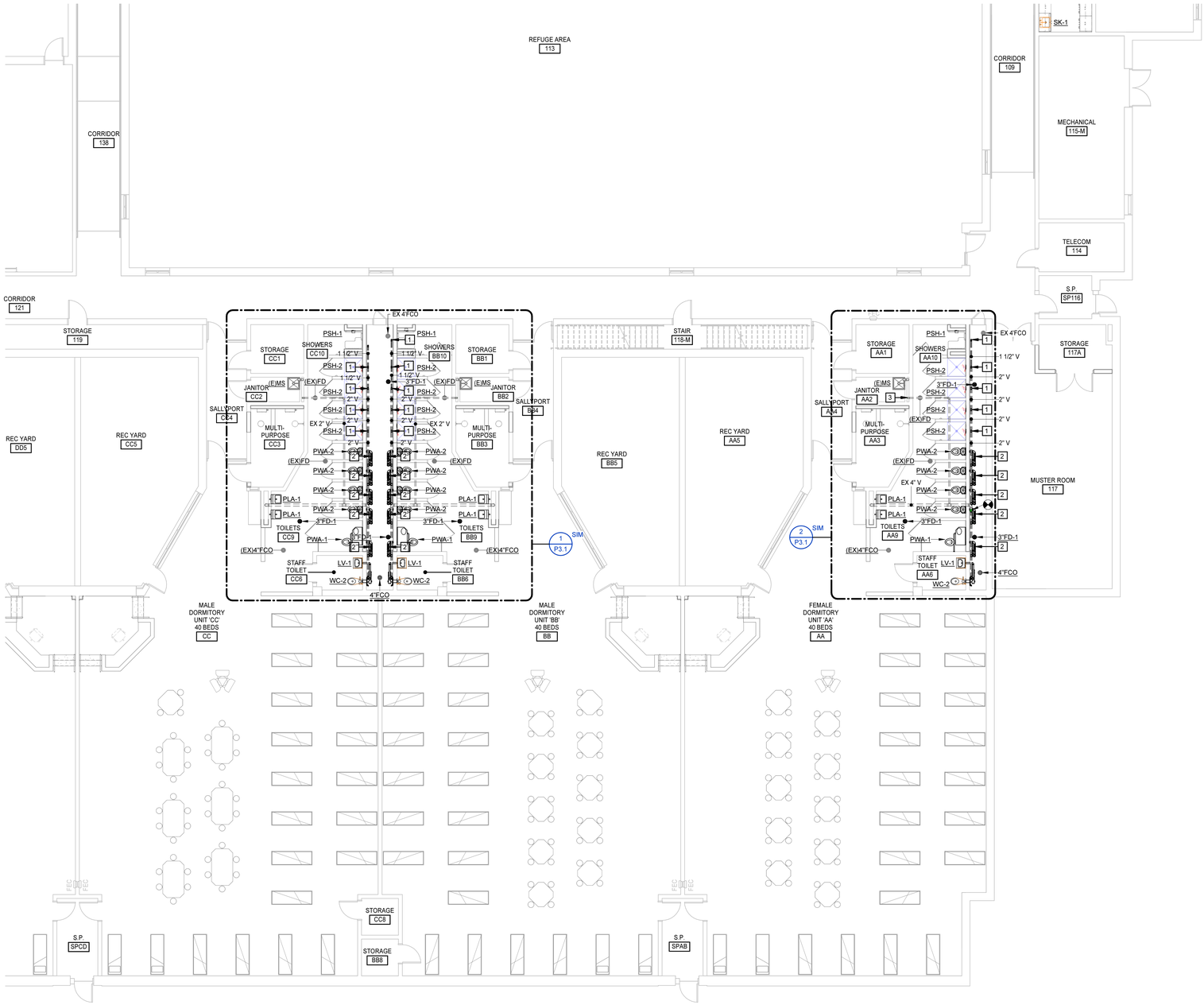
KEY PLAN

10/10/2025 8:15:29 AM

KEYNOTES

APPLIES TO THIS DRAWING

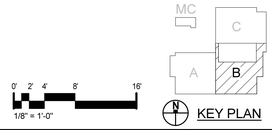
1	1-1/2" V DN
2	PROVIDE PINNED CLEANOUT. TYPICAL FOR EACH PWA FIXTURE TYPE.
3	EX 2" V DN



N

PART B - PLUMBING - SANITARY

1/8" = 1'-0"



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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER PRINT WHITE

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

DATE	DESCRIPTION

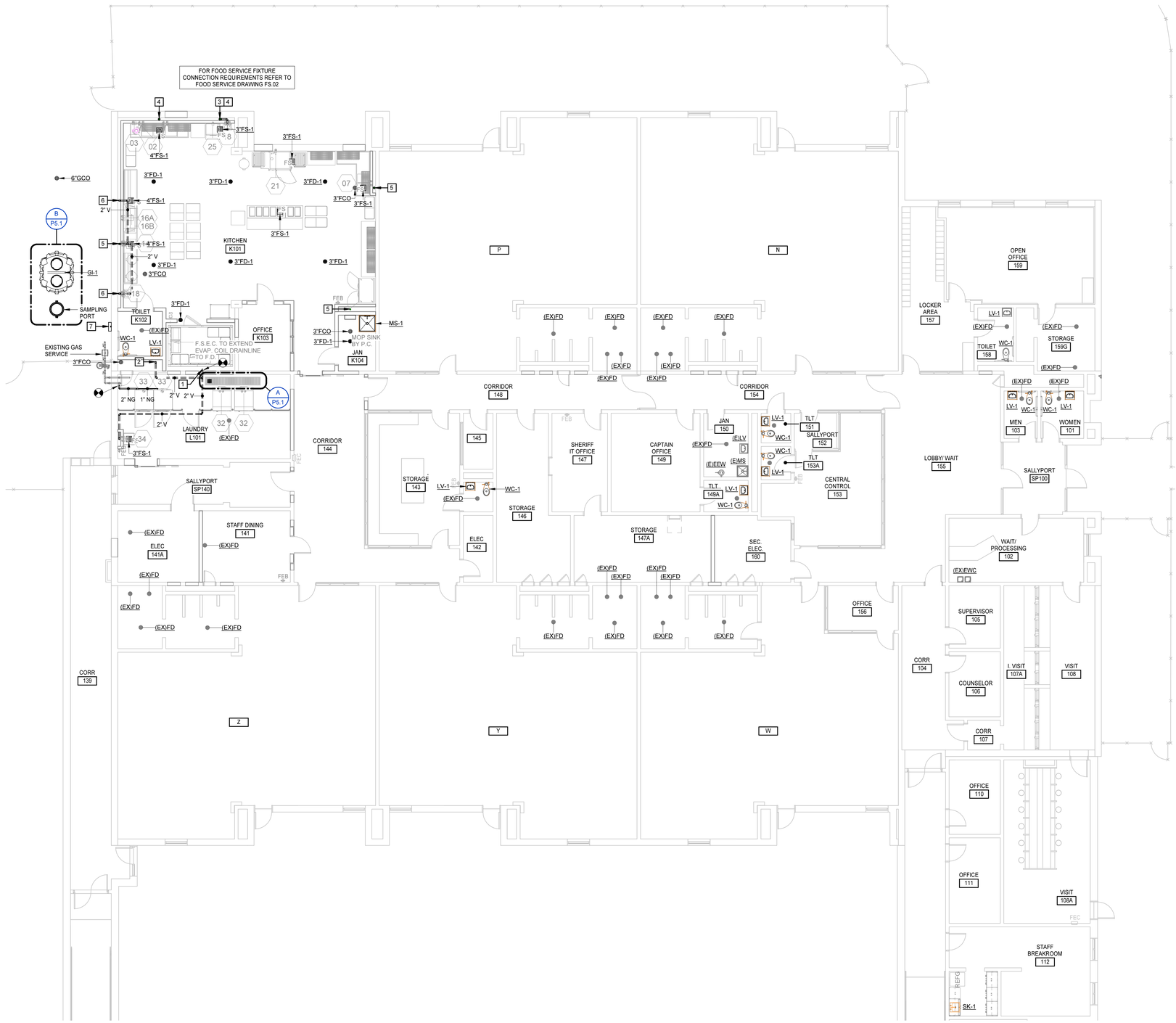
PLUMBING - SANITARY
FLOOR PLAN - PART B

P2.5

10/10/2025 8:15:32 AM

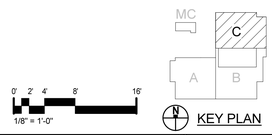
KEYNOTES
APPLIES TO THIS DRAWING

1	EX 2"VTR
2	2" V DN TO LAVATORY.
3	3" SAN DN.
4	3" VTR
5	2" VTR
6	2" V DN
7	GREASE INTERCEPTOR FOG MONITORING ALARM SYSTEM PANEL.



N

PART C - PLUMBING - SANITARY
1/8" = 1'-0"



0' 2' 4' 8' 16'
1/8" = 1'-0"

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

DATE	DESCRIPTION

PLUMBING - SANITARY
FLOOR PLAN - PART C

P2.6

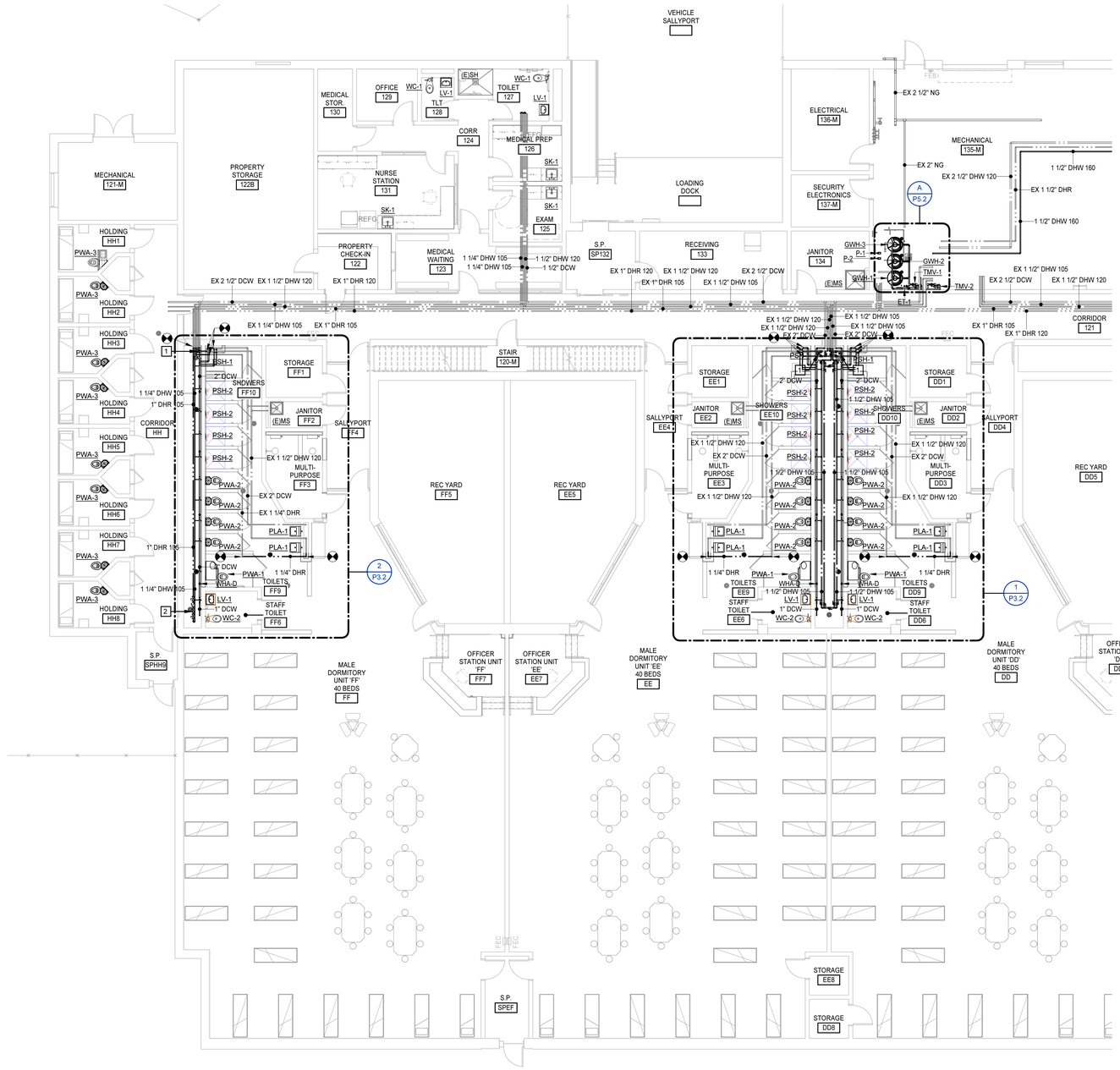
10/10/2025 8:15:34 AM

KEYNOTES

APPLIES TO THIS DRAWING

1 PROVIDE DOMESTIC COLD WATER MOTORIZED ISOLATION VALVES. VALVES SHALL BE CONTROLLED BY THE SECURITY ELECTRONICS SYSTEM IN DEPUTY CONTROL ROOM. RELAY AND VALVE ACTUATOR POWER SHALL BE PROVIDED BY DIVISION 26. COORDINATE WITH SECURITY ELECTRONICS SYSTEM DIVISION 28 FOR SECURITY SYSTEM INTERFACE. REFER TO DOMESTIC WATER MOTORIZED ISOLATION VALVE DETAIL ON P5.2. ALL ZONE CELLBLOCK SOLENOID ISOLATION VALVES SHALL BE LOCATED WHERE THEY CAN BE ACCESSIBLE FROM INSIDE THE CELL CHASE.

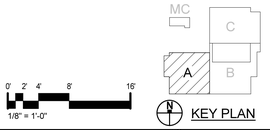
2 PROVIDE A THERMOSTATIC BALANCING VALVE. REFER TO HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL ON DWG. P5.1.



N

PART A - PLUMBING - DOMESTIC

1/8" = 1'-0"



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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

PLUMBING - DOMESTIC FLOOR PLAN - PART A

P2.7

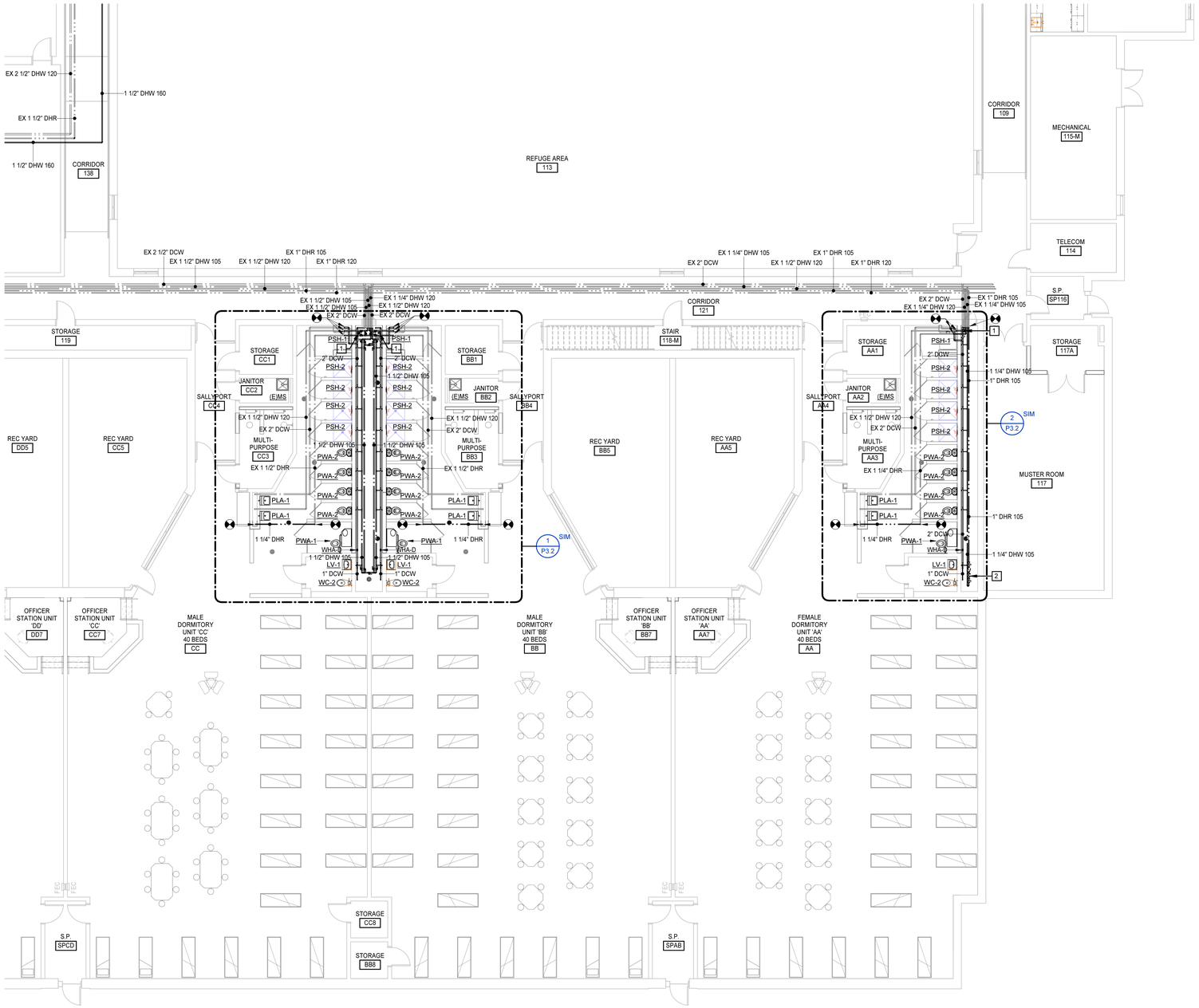
10/10/2025 8:15:38 AM

KEYNOTES

APPLIES TO THIS DRAWING

1 PROVIDE DOMESTIC COLD WATER MOTORIZED ISOLATION VALVES. VALVES SHALL BE CONTROLLED BY THE SECURITY ELECTRONICS SYSTEM IN DEPUTY CONTROL ROOM. RELAY AND VALVE ACTUATOR POWER SHALL BE PROVIDED BY DIVISION 26. COORDINATE WITH SECURITY ELECTRONICS SYSTEM DIVISION 28 FOR SECURITY SYSTEM INTERFACE. REFER TO DOMESTIC WATER MOTORIZED ISOLATION VALVE DETAIL ON P5.2. ALL ZONE CELLBLOCK SOLENOID ISOLATION VALVES SHALL BE LOCATED WHERE THEY CAN BE ACCESSIBLE FROM INSIDE THE CELL CHASE.

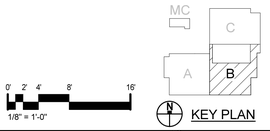
2 PROVIDE A THERMOSTATIC BALANCING VALVE. REFER TO HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL ON DWG. P5.1.



N

PART B - PLUMBING - DOMESTIC

1/8" = 1'-0"



0' 2' 4' 8' 16'
1/8" = 1'-0"

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
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DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

PLUMBING - DOMESTIC FLOOR PLAN - PART B

P2.8

10/10/2025 8:15:40 AM

KEYNOTES

APPLIES TO THIS DRAWING

1 PROVIDE A CALIBRATED BALANCING VALVE, CIRCUIT SETTER AND AUTOFLOW VALVE SET TO .5 GPM FLOW. REFER TO DETAIL ON SHEET P5.1

2 GREASE INTERCEPTOR FOG MONITORING ALARM SYSTEM PANEL.

FOR FOOD SERVICE FIXTURE CONNECTION REQUIREMENTS REFER TO FOOD SERVICE DRAWING FS.02

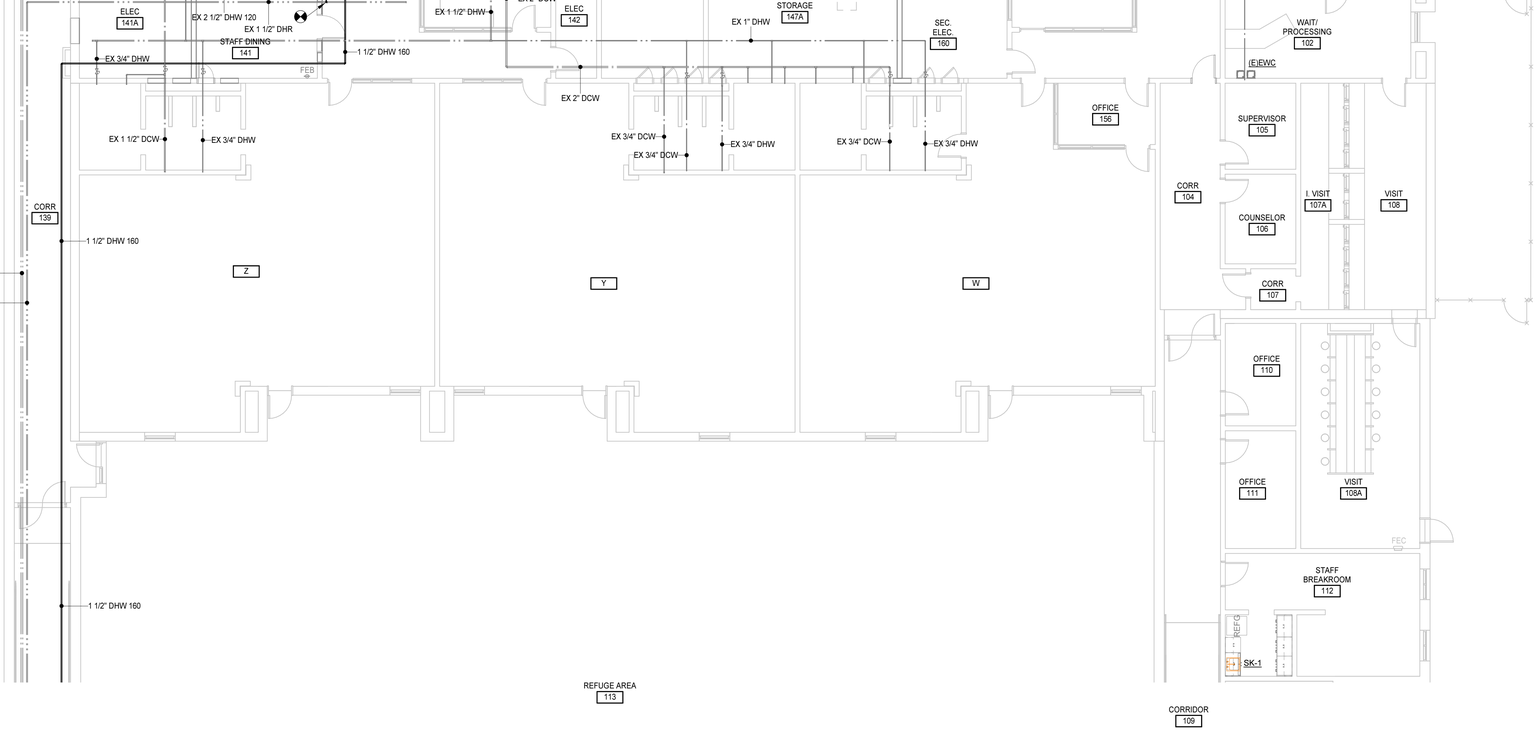
KITCHEN K101 · TOILET K102 · OFFICE K103 · JAN K104 · LAUNDRY L101 · CORRIDOR 144 · SALLYPORT SP140 · STAFF DINING 141 · ELEC 141A · STORAGE 143 · ELEC 142 · STORAGE 146 · 143B · SHERIFF IT OFFICE 147 · CAPTAIN OFFICE 149 · STORAGE 147A · SEC. ELEC. 160 · CORRIDOR 145 · CORRIDOR 148 · CORRIDOR 154 · JAN 150 · 149A · TLT 151 · SALLYPORT 152 · CENTRAL CONTROL 153 · 153A · LOCKER AREA 157 · OPEN OFFICE 159 · TOILET 158 · STORAGE 159G · MEN 103 · WOMEN 101 · LOBBY/ WAIT 155 · SALLYPORT SP100 · WAIT/ PROCESSING 102 · OFFICE 156 · SUPERVISOR 105 · CORR 104 · COUNSELOR 106 · I. VISIT 107A · VISIT 108 · CORR 107 · OFFICE 110 · OFFICE 111 · VISIT 108A · STAFF BREAKROOM 112 · CORR 139 · REFUGE AREA 113 · CORRIDOR 109

P · N · Z · Y · W

EXISTING GAS SERVICE · WHA-B · MS-1 · TMV-3 · SK-1 · F.S.E.C. TO EXTEND EVAP. COIL DRAINLINE TO F.D.

1 1/4" DHW 140 · 1" DHW 140 · 1 1/2" DCW · 1" DCW · 1 1/2" DHW 140 · 2" DCW · 3/4" DHW 140 · 1/2" DCW · 3/4" DHR · 1 1/4" DCW · 2" DCW · 1 1/4" DHW 160 · 3/4" DHW 160 · 1" DHW 160 · 2" NG · 1" NG · 1" DCW 3/4" DCW · 1/2" DHW · EX 2 1/2" DCW · 3/4" DHR · 2" DCW · 1 1/2" DHW 160 · EX 3" DCW · EX 2 1/2" DHW 120 · EX 1 1/2" DHR · EX 3/4" DHW · EX 1 1/2" DCW · EX 3/4" DCW · EX 1 1/2" DHW · EX 2" DCW · EX 1" DCW · EX 1" DHW · EX 3/4" DCW · EX 1/2" DCW · EX 1/2" DHW · (E)LV · (E)WC · (E)WH · (E)EW · (E)MS · LV-1 · WC-1 · TLT

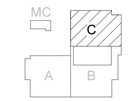
FEB · FEC · FS · FD



N

PART C - PLUMBING - DOMESTIC

1/8" = 1'-0"



0' 2' 4' 8' 16'

1/8" = 1'-0"

KEY PLAN

10/10/2025 8:15:43 AM

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MOSELEY ARCHITECTS P.C. REGISTERED ARCHITECTS NC CORPORATION 50149 NORTH CAROLINA CHARLOTTE

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

DATE	DESCRIPTION

PLUMBING - DOMESTIC
FLOOR PLAN - PART C

P2.9

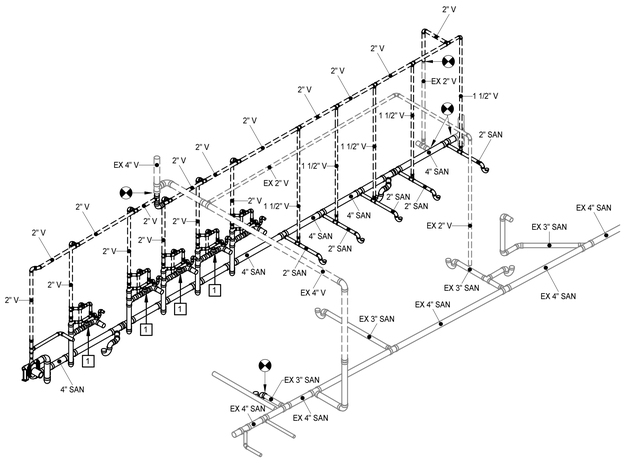
KEYNOTES

APPLIES TO THIS DRAWING

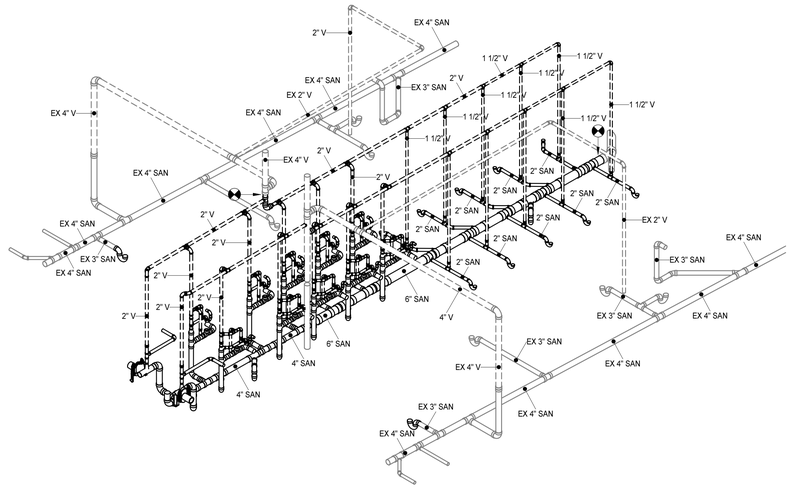
1 PROVIDE PINNED CLEANOUT. TYPICAL FOR EACH PWA FIXTURE TYPE.

2 4" VTR

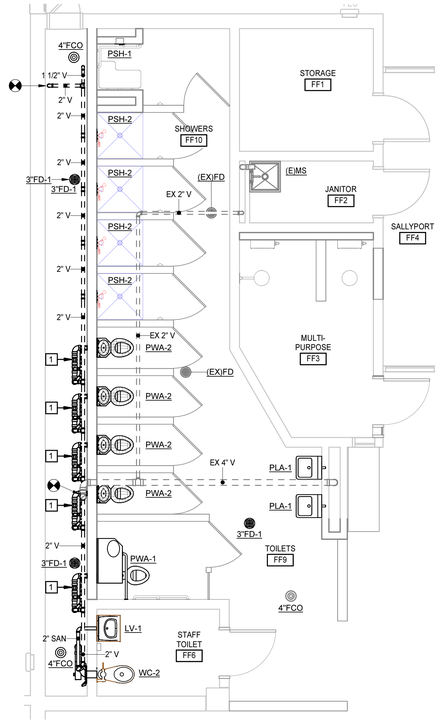
3 EX 2" V TO REMAIN.



S2 SHOWER/TOILET AREA - SANITARY WASTE RISER

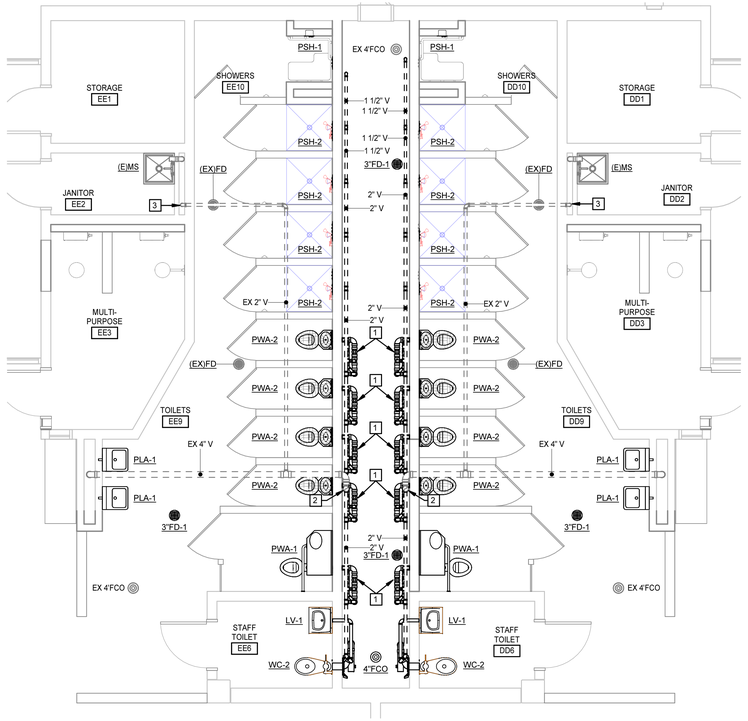


S1 DUAL SHOWER/TOILET AREA - SANITARY WASTE RISER



2 P2.4 P3.1 ENLARGED SHOWER/TOILET AREA - SANITARY WASTE

1/4" = 1'-0"



1 P2.4 P3.1 ENLARGED DUAL SHOWER/TOILET AREA - SANITARY WASTE

1/4" = 1'-0"

0' 1' 2' 4' 8'

1/4" = 1'-0"

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
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ENLARGED PLANS AND RISER DIAGRAMS

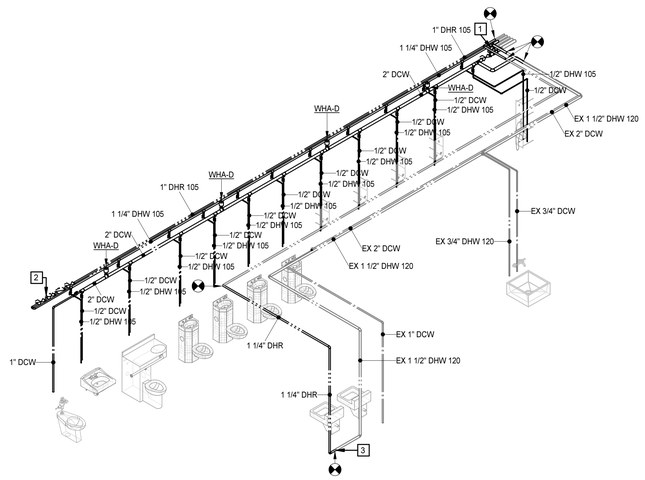
P3.1

10/10/2025 8:15:48 AM

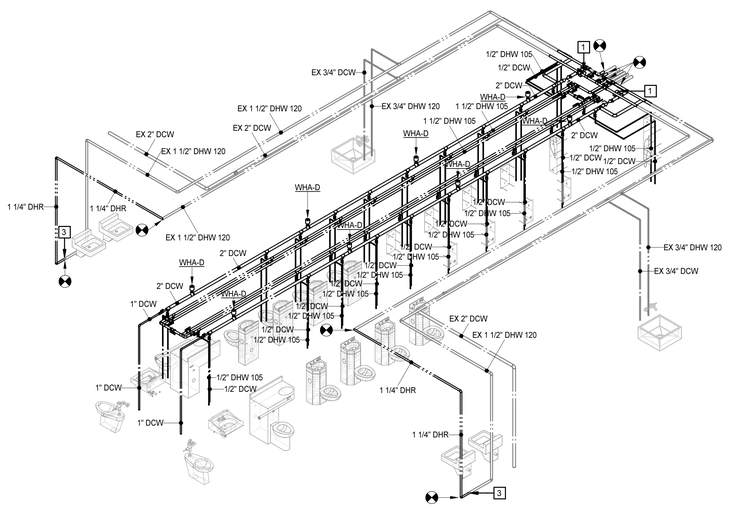
KEYNOTES

APPLIES TO THIS DRAWING

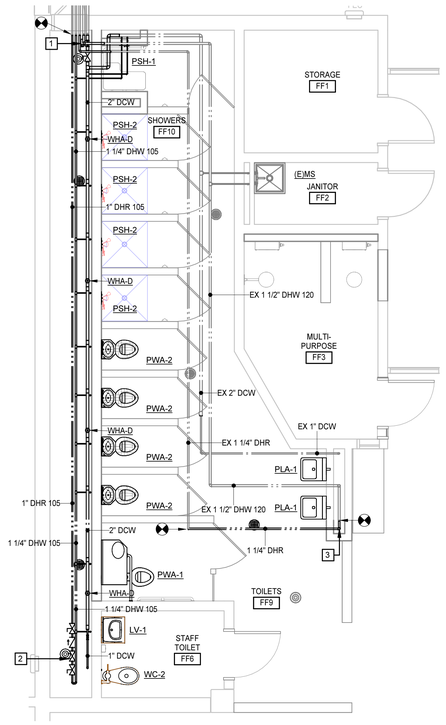
1. PROVIDE DOMESTIC COLD WATER MOTORIZED ISOLATION VALVES. VALVES SHALL BE CONTROLLED BY THE SECURITY ELECTRONICS SYSTEM IN DEPUTY CONTROL ROOM. RELAY AND VALVE ACTUATOR POWER SHALL BE PROVIDED BY DIVISION 26. COORDINATE WITH SECURITY ELECTRONICS SYSTEM DIVISION 28 FOR SECURITY SYSTEM INTERFACE. REFER TO DOMESTIC WATER MOTORIZED ISOLATION VALVE DETAIL ON P5.2. ALL ZONE CELLBLOCK SOLENOID ISOLATION VALVES SHALL BE LOCATED WHERE THEY CAN BE ACCESSIBLE FROM INSIDE THE CELL CHASE.
2. PROVIDE A THERMOSTATIC BALANCING VALVE. REFER TO HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL ON DWG. P5.1.
3. RECONNECT DWH RETURN LINE DOWN STREAM OF LAST FIXTURE IN CHASE.



D2 SHOWER/TOILET AREA - DOMESTIC WATER RISER



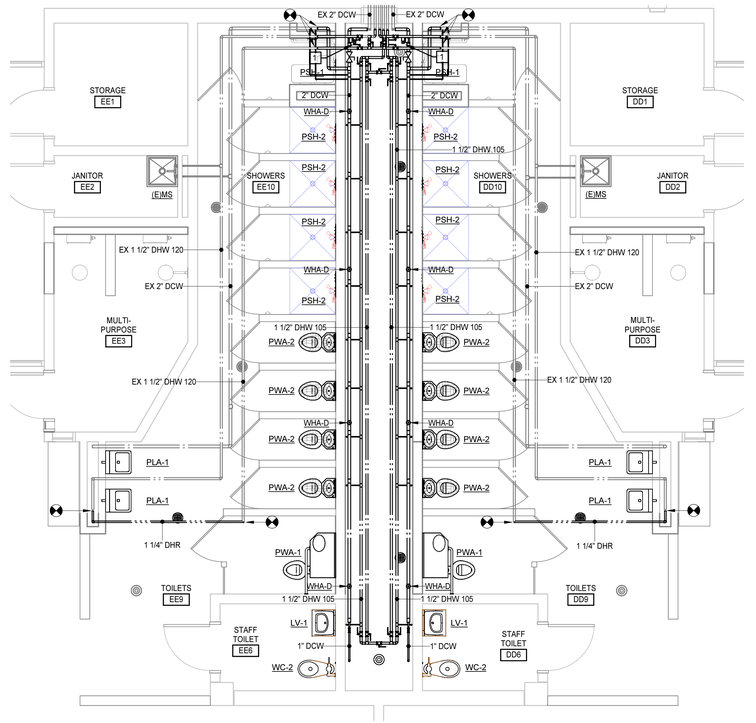
D1 DUAL SHOWER/TOILET AREA - DOMESTIC WATER RISER



2 ENLARGED SHOWER/TOILET AREA - DOMESTIC WATER

P2.7 | P3.2

1/4" = 1'-0"



1 ENLARGED DUAL SHOWER/TOILET AREA - DOMESTIC WATER

P2.7 | P3.2

1/4" = 1'-0"

0' 1' 2' 4' 8'

1/4" = 1'-0"

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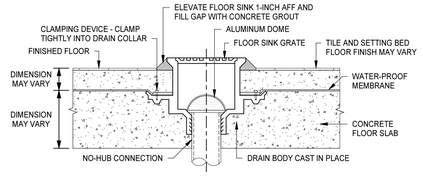
PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

ENLARGED PLANS AND RISER DIAGRAMS

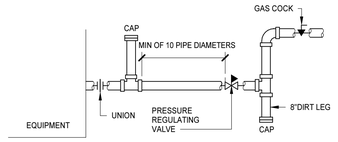
P3.2

10/10/2025 8:15:55 AM



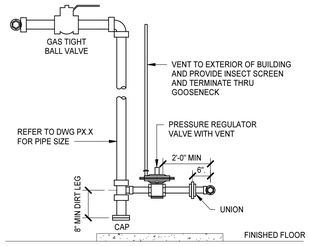
FLOOR SINK DETAIL - RAISED

NO SCALE



EXTERIOR GAS CONNECTION DETAIL

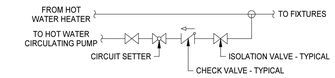
NO SCALE



NOTES:
1. REGULATOR AND GAS PIPING FROM DIRT LEG TO EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. REGULATOR SHALL MEET EQUIPMENT MANUFACTURER PRESSURE AND FLOW REQUIREMENTS.
3. ALL REGULATOR VENTS SHALL TERMINATE A MINIMUM OF 10'-0" AWAY FROM ALL OUTSIDE AND FRESH AIR INTAKES AND OPERABLE DOORS AND WINDOWS.

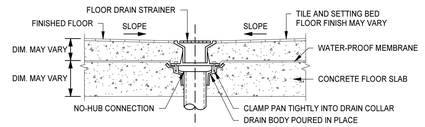
INTERIOR GAS CONNECTION DETAIL

NO SCALE



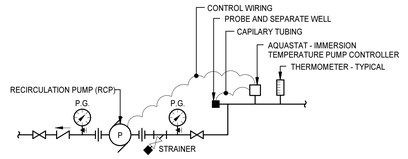
HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL

NO SCALE



FLOOR DRAIN IN OPEN AREA DETAIL

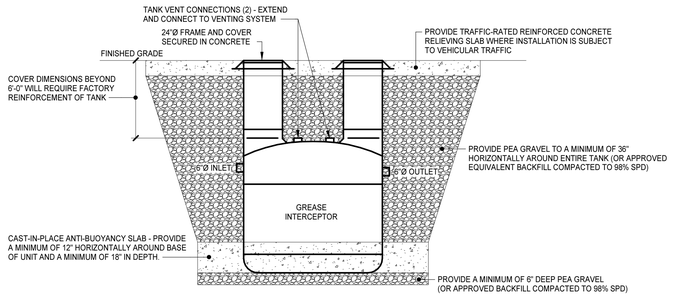
NO SCALE



CIRCULATION PUMP DETAIL

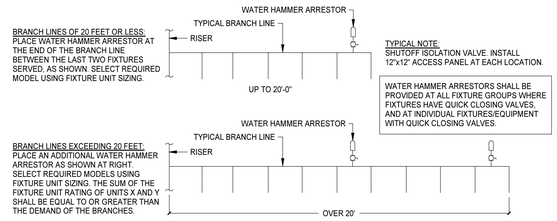
NO SCALE

NOTES:
1. REFER TO MANUFACTURER'S WRITTEN INSTALLATION PROCEDURES AND RECOMMENDATIONS AND CHECKLIST.
2. INTERCEPTORS MUST BE INSTALLED IN ACCORDANCE WITH ALL RELEVANT FEDERAL, PROVINCIAL/STATE, AND LOCAL CODES, INCLUDING LOCAL PLUMBING CODE.



B P2.3 P5.1 **GREASE INTERCEPTER DETAIL**

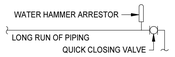
12" = 1'-0"



P.D.I. WATER HAMMER ARRESTORS						
LENGTH OF PIPE	NOMINAL PIPE DIAMETERS					
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25'	A	A	B	C	D	E
50'	A	B	C	D	E	F
75'	B	C	D	AE	F	EF
100'	C	D	E	F	CF	FF
125'	C	D	F	AF	EF	EFF
150'	D	E	F	DF	FF	FFF

WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE REMOTE EQUIPMENT, WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE OR HAMMER SOURCE.

THE SIZE AND QUANTITY OF WATER HAMMER ARRESTORS TO BE INSTALLED IN BRANCH LINES IS SHOWN IN TABLE. WHEN FLOW PRESSURE OF 65 PSIG TO 85 PSIG ARE USED, THE NEXT LARGER SIZE SHOULD BE SELECTED.



WATER HAMMER ARRESTOR CAPACITIES			
CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
1/2"	A	1 TO 11	5
3/4"	B	12 TO 32	7
1"	C	33 TO 60	11
1"	D	61 TO 113	20
1"	E	114 TO 154	29
1"	F	155 TO 330	34

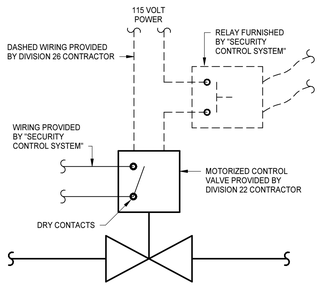
NOTE: MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

SHOCK ABSORBER SELECTION		
CODE	PDI SIZE	FIXTURE UNITS
SA-1	A	1-11
SA-2	B	12-32
SA-3	C	33-60
SA-4	D	61-113
SA-5	E	114-154
SA-6	F	155-330

SHOCK ABSORBER SELECTION TABLE

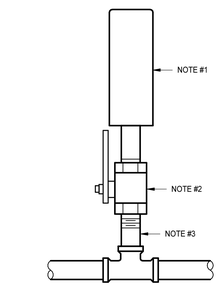
WATER HAMMER ARRESTOR INSTALLATION & SIZING DETAIL

NO SCALE



SECURITY CONTROLLED MOTORIZED ISOLATION VALVE DETAIL

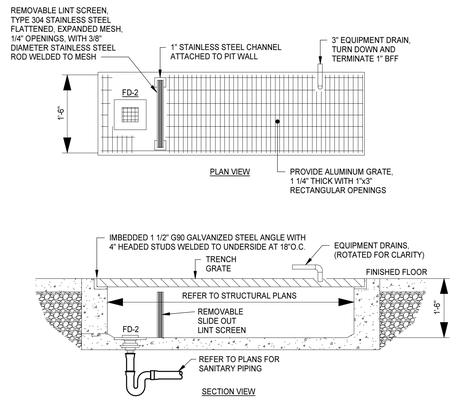
NO SCALE



NOTES:
1. WATER HAMMER ARRESTOR.
2. BALL VALVE. VALVE SIZE SHALL BE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").
3. BRANCH PIPE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").

WATER HAMMER ARRESTOR DETAIL

NO SCALE



A P2.3 P5.1 **LAUNDRY EXTRACTOR TRENCH DRAIN DETAIL**

12" = 1'-0"

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

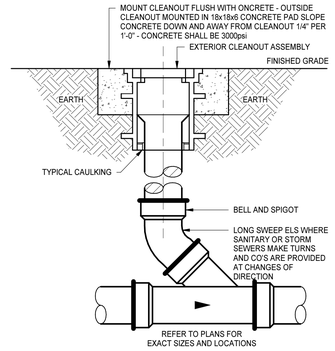
REVISIONS

DATE	DESCRIPTION

PLUMBING DETAILS

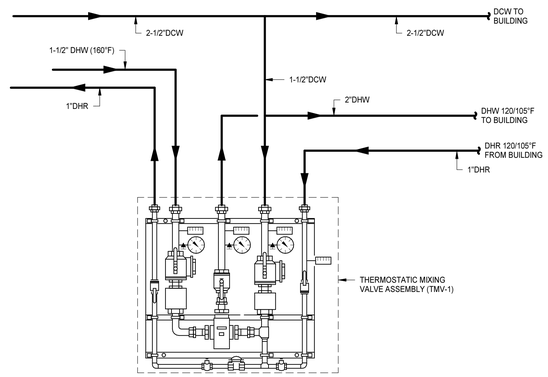
P5.1

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EXTERIOR YARD CLEANOUT DETAIL

NO SCALE



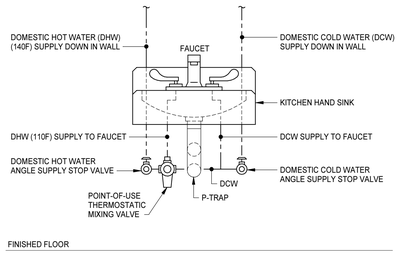
NOTES:
1. DIMINSIONS ARE LISTED FOR TMV-1 ONLY, TMV-2 PIPED SIMILARLY, VERIFY PIPE SIZES FROM PLAN VIEW.

MASTER THERMOSTATIC MIXING VALVE DETAIL

NO SCALE

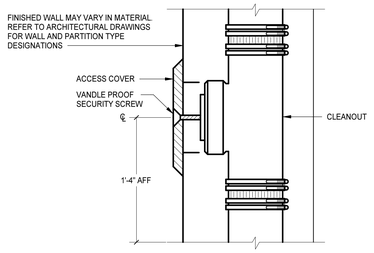
CAST IRON PIPE BEDDING DETAIL

NO SCALE



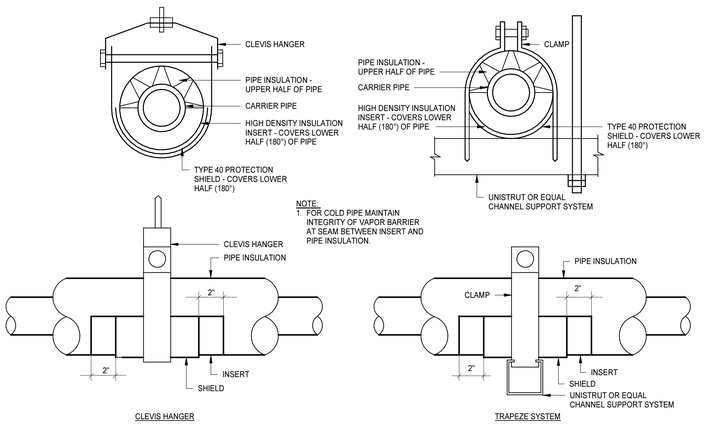
KITCHEN HAND SINK DETAIL

NO SCALE



WALL CLEANOUT DETAIL

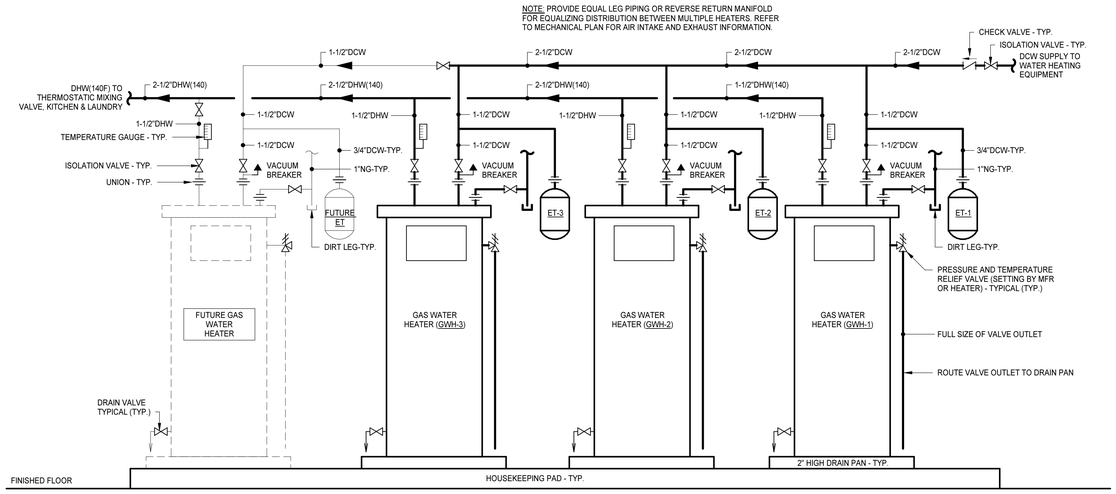
NO SCALE



CLEVIS HANGER TRAPEZE SYSTEM

PIPE SUPPORT AND THERMAL SHIELD DETAILS

NO SCALE



A P2.7 P5.2 **FLOOR MOUNTED GAS WATER HEATER DETAIL**

12" = 1'-0"

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

PLUMBING DETAILS

P5.2

10/10/2025 8:15:57 AM

PUMP SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	PUMP TYPE	OPERATING DATA					ELECTRICAL DATA			CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				FLOW (GPM)	PRESSURE (FT)	EFFICIENCY	POWER (HP)	SPEED (RPM)	VOLTS	PHASE	HERTZ	INLET (IN)	OUTLET (IN)	
P-1	GRUNDFOS	MAGNA3 40-80 F	MECHANICAL 135-M	DHR	CIRCULATOR	15	30	68	0.040	2594	120	1	60	1"	1"	1
P-2	GRUNDFOS	MAGNA3 40-80 F	MECHANICAL 135-M	DHR	CIRCULATOR	15	30	68	0.040	2594	120	1	60	1"	1"	1

PUMP SCHEDULE NOTES

NO SCALE

1. PROVIDE ECM-CONTROLLED RECIRCULATION PUMP WITH INTEGRAL TEMPERATURE AND PRESSURE SENSORS AND LOGIC. UNIT SHALL BE FULLY ADJUSTABLE FOR VARYING FIELD CONDITIONS.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	HEIGHT A.F.F.	PIPE SIZE				NOTES
			COLD WATER	HOT WATER	VENT	SOIL WASTE	
LV-1	WALL-HUNG LAVATORY (ACCESSIBLE)	RIM AT 34"	1/2"	1/2"	1 1/2"	1 1/2"	1
MS-1	MOP BASIN (36" x 36")	RIM AT 12"	3/4"	3/4"	2"	3"	
PLA-1	SECURITY WALL-HUNG LAVATORY (ACCESSIBLE)	RIM AT 34"	1/2"	1/2"	1 1/2"	1 1/2"	1
PSH-1	SECURITY WALL PACK SHOWER (ACCESSIBLE)	CONTROLS AT 60 1/4", SHOWERHEAD AT 72"	1/2"	1/2"			1
PSH-2	SECURITY WALL PACK SHOWER	CONTROLS AT 60 1/4", SHOWERHEAD AT 72"	1/2"	1/2"			
PWA-1	SECURITY COMBINATION FIXTURE (ACESSIBLE)	TOP OF SEAT 17"	1/2"	1/2"	3"	3"	1
PWA-2	SECURITY COMBINATION FIXTURE	TOP OF SEAT 15"	1/2"	1/2"	3"	3"	
PWA-3	SECURITY COMBINATION FIXTURE FLUSH VALVE	NA	1/2"	1/2"	3"	3"	
SK-1	SINK - SINGLE BASIN (ACCESSIBLE)	COUNTER MOUNTED REFER TO ARCH DWGS	1/2"	1/2"	1 1/2"	1 1/2"	1
WC-1	WALL MOUNTED WATER CLOSET (ACCESSIBLE)	TOP OF SEAT 17"	1"		2"	4"	1,2
WC-2	WALL MOUNTED WATER CLOSET	TOP OF SEAT 15"	1"		2"	4"	2

PLUMBING FIXTURE SCHEDULE NOTES

NO SCALE

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL CONFORM TO THE USBC AND ASAD ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. LOCATE FLUSH ACTUATORS ON WIDE SIDE OF STALLS OR APPROACH AREAS.

INTERCEPTOR AND SEPARATOR SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	OPERATING DATA			ELECTRICAL DATA			CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL		FLOW (GPM)	CAPACITY (GALLONS)	CONTAMINATE RETENTION VOLUME (GAL)	VOLTAGE	PHASE	HERTZ	INLET (IN)	OUTLET (IN)	
GI-1	SCHIER	GB-1000	SITE	100	753	274	120	1	60	6"	6"	1,2

INTERCEPTOR AND SEPARATOR SCHEDULE NOTES

NO SCALE

1. PROVIDE GREASE INTERCEPTOR UNIT WITH FOG MONITORING ALARM SYSTEM WITH REMOTE LOCATED PANEL.
2. PROVIDE INTERCEPTOR WITH CONCRETE ANCHORING PAD, DEADMAN ANCHORS, OR MANUFACTURER RECOMMENDED ANCHORING METHOD AND ALL ASSOCIATED INSTALLATION ACCESSORIES.

GAS WATER HEATER SCHEDULE

TAG	BASIS OF DESIGN		LOCATION	CAPACITY (GALLONS)	RECOVERY RATE (GPH)	TEMPERATURE RISE (°F)	TEMPERATURE SETTING (°F)	FUEL DATA			ELECTRICAL DATA			NOTES
	MANUFACTURER	MODEL						TYPE	INPUT RATE (BTUH)	MAX. INLET PRESSURE (INCHES W.C.)	VOLTAGE	PHASE	HERTZ	
GWH-1	AOSMITH	BTH-199	MECHANICAL 135-M	100	230	110	160	NATURAL GAS	199,900	14	120	1	60	1
GWH-2	AOSMITH	BTH-199	MECHANICAL 135-M	100	230	110	160	NATURAL GAS	199,900	14	120	1	60	1
GWH-3	AOSMITH	BTH-199	MECHANICAL 135-M	100	230	110	160	NATURAL GAS	199,900	14	120	1	60	1

GAS WATER HEATER SCHEDULE NOTES

NO SCALE

1. PROVIDE PARALLEL INSTALLATIONS WITH PRECISION CUT EQUAL LEG PIPING. REVERSE-RETURN MANIFOLD PIPING, OR MANUFACTURER'S MANIFOLD INSTALLATION KIT. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS AND RECOMMENDATIONS.

DRAIN AND CLEANOUT SCHEDULE

TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
3"FCO	JOSAM	55000-1	FLOOR CLEANOUT	
3"FD-1	JOSAM	30000-6S-VP	6" x 6"	
3"FS-1	JOSAM	41630-VP-50-DSB-C F-HG	12" x 12", HALF GRATE	
4"FCO	JOSAM	55000-1	FLOOR CLEANOUT	
4"FS-1	JOSAM	41630-VP-50-DSB-C F-HG	12" x 12", HALF GRATE	
6"FD-2	JOSAM	30000-8S-VP	8" x 8"	
6"GCO	JOSAM	58680-CO	GRADE CLEANOUT	

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	BASIS OF DESIGN		DESIGN FLOW (GPM)	FLOW RANGE (GPM)	MAX P.D. AT DESIGN FLOW (PSI)	HW SYSTEM TEMPERATURES		CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				INLET (°F)	OUTLET (°F)	INLET (IN)	OUTLET (IN)	
TMV-1	POWERS	LFSH1434HL	90	90-313	5	140	120	1 1/2"	1 1/2"	
TMV-2	POWERS	LFSH1434HL	90	90-313	5	140	105	1 1/2"	1 1/2"	
TMV-3	POWERS	LFSH1434-1	42	42-159	5	160	140	1 1/4"	1 1/2"	

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

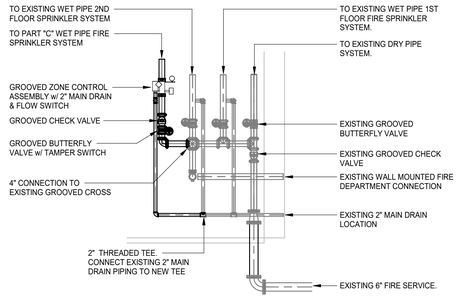
PROJECT NO: 642088
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REVISIONS	
DATE	DESCRIPTION

SCHEDULES

P6.1

10/10/2025 8:16:00 AM



1 / FP2.1 FP0.1 **EXISTING/ RENOVATED FIRE RISER DETAIL**

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
VIF	VERIFY IN FIELD
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
- EXISTING PENDANT SPRINKLER HEAD
- CONCEALED PENDANT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- EXISTING UPRIGHT SPRINKLER HEAD
- HYDRAULIC NODE
- HORIZONTAL SIDEWALL SPRINKLER HEAD

- 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 PRE-ACTION PROTECTION, BRANCHING FROM THE LINE THAT SERVES THE AREA.
- 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 DETAIL TITLE — 1/4"=1'-0"
M2.2 M4.1 M2.3 M2.4
- DETAIL NUMBER
- DRAWING WHERE DETAIL IS INDICATED
- DRAWING WHERE DETAIL IS CUT
- ADDITIONAL DRAWING REFERENCES

A SECTION TITLE — 1/4"=1'-0"
M2.2 M3.1 M2.3 M2.4
- 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 NORTH CAROLINA BUILDING CODE, 2013 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 NORTH 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.

THE USE OF FLEXIBLE TYPE SPRINKLERS SHALL NOT BE PREMITTED IN ACCORDANCE w/ WAKE COUNTY DESIGN & CONSTRUCTION GUIDELINES.

GALVANIZED STEEL PIPING SHALL BE PERMITTED TO BE INSTALLED IN ONLY DRY SYSTEMS PER WAKE COUNTY DESIGN & CONSTRUCTION GUIDELINES

DESIGN FLOW DATA

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

LOCATION OF TEST: 3400 Hammond Rd.

STATIC PRESSURE: 84 psi

RESIDUAL PRESSURE: 64 psi

FLOW AT TIME OF TEST: 826 gpm

DATE OF TEST: 10/26/22

SPRINKLER HEADS

IN SUSPENDED CEILINGS 10'-0" OR LESS: PROVIDE CONCEALED, QUICK RESPONSE, GLASS BULB PENDENT TYPE SPRINKLERS w/ CHROME FINISH AND MATCHING TO EXISTING COVER PLATE.

IN SUSPENDED CEILINGS 10'-1" OR MORE, PROVIDE RECESSED, QUICK RESPONSE, GLASS BULB PENDENT TYPE SPRINKLERS w/ MATCHING TO EXISTING FINISH AND MATCHING TO EXISTING ESCUTCHEON.

IN AREAS OF RENOVATION: SPRINLKERS AND ESCUTCHEONS SHALL MATCH EXISTING TYPES USED IN SPACES ADJACENT TO THIS PROJECT.

FOR HORIZONTAL SIDEWALL APPLICATIONS: PROVIDE RECESSED, QUICK RESPONSE, GLASS BULB TYPE SPRINKLERS w/ MATCHING TO EXISTING FINISH AND MATCHING TO EXISTING 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 REQURIED BY NFPA 13 TABLE 8.3.2.5(a)ITEM (C) FOR HORIZONTAL DISCHARGE.

IN ALL SECURE AREAS: PROVIDE INSTITUTIONAL TYPE, QUICK RESPONSE SPRINKLERS w/ CHROME FINISH. TYCO MODEL RAVEN IS THE PREFERRED BRAND ALTERNATE. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND EXTENTS OF SECURE AREAS AND WALLS.

INSTALL SPRINKLERS IN CENTER OF ACOUSTICAL TILE CEILING PANELS.

MOSELEY ARCHITECTS
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PHONE (704) 540-3755 FAX (704) 540-3754
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043951 10/13/25 TIMOTHY T WHITE

MOSELEY, INC. REGISTERED ARCHITECTURE CORPORATION 50149 NORTH CAROLINA CHARLOTTE

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

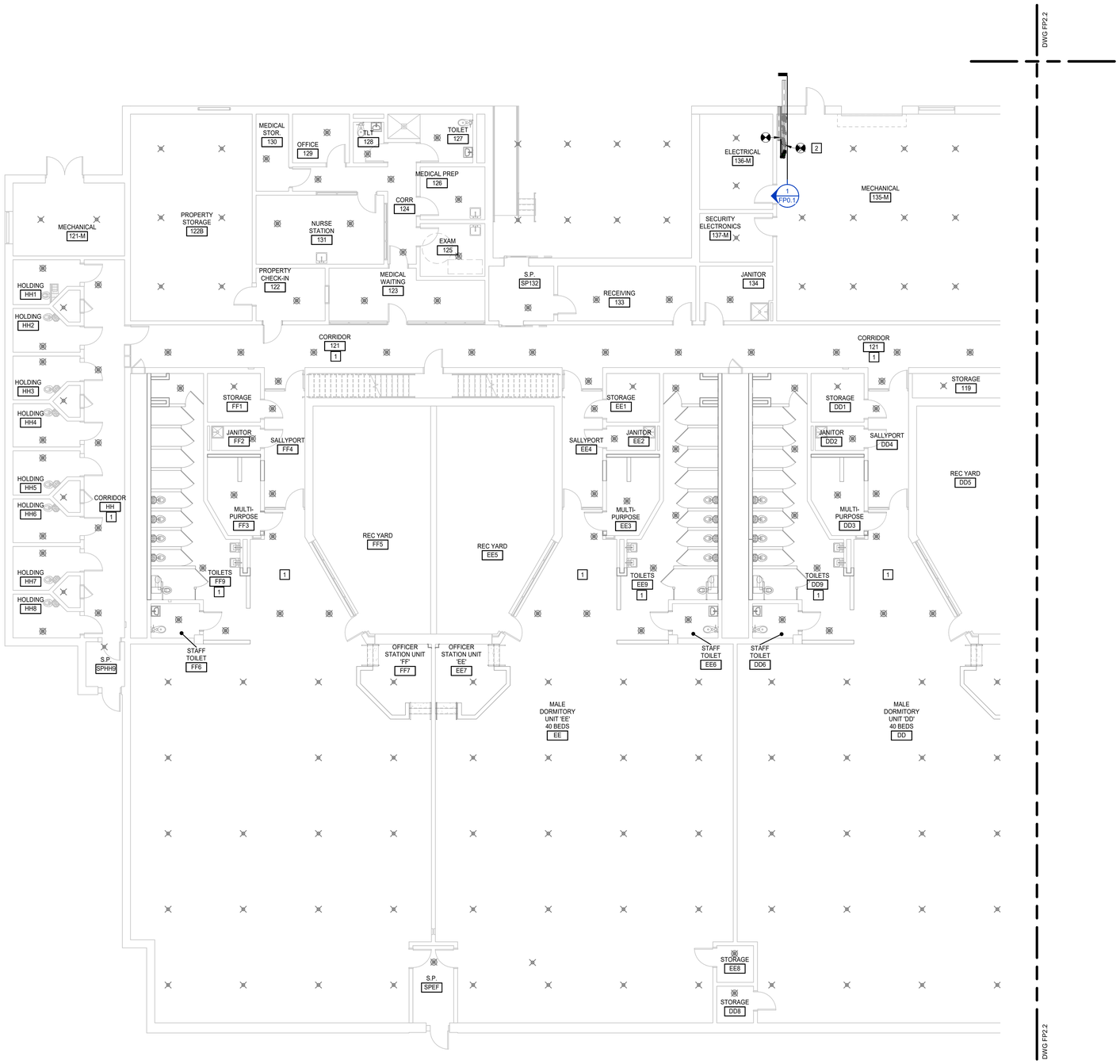
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FIRE PROTECTION KEYNOTES

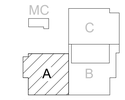
APPLIES TO DRAWINGS FP2.1 - FP2.3
REPRESENTED BY n

1. REPLACE, ADD/ RELOCATE EXISTING FIRE SPRINKLERS TO ACCOMODATE THE RENOVATION OF WALLS AND CEILINGS IN THIS SPACE PER NFPA 13 REQUIEMENTS IN THIS AREA AS REQUIRED.
2. PROVIDE A 4" SYSTEM RISER FOR FIRE SPRINKLER SYSTEM IN EXISTING ANNEX BUILDING. EXISTING SYSTEM RISER IS LOCATED IN MECHANICAL ROOM IN DORMITORY ADDITION.
3. PROVIDE A WET PIPE FIRE SPRINKLER SYSTEM FOR THIS AREA.



N

AREA A - FIRE PROTECTION
1/8" = 1'-0"



0' 2' 4' 8' 16'
1/8" = 1'-0"

KEY PLAN

MOSELEYARCHITECTS
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NORTH CAROLINA PROFESSIONAL SEAL 043951 10/13/25 ENGINEER BRITTNEY T WHITE

MOSELEY ARCHITECTS PC REGISTERED ARCHITECTURAL CORPORATION NORTH CAROLINA CHARLOTTE, NC 50149

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS

DATE	DESCRIPTION

FIRE PROTECTION FLOOR PLAN - AREA A

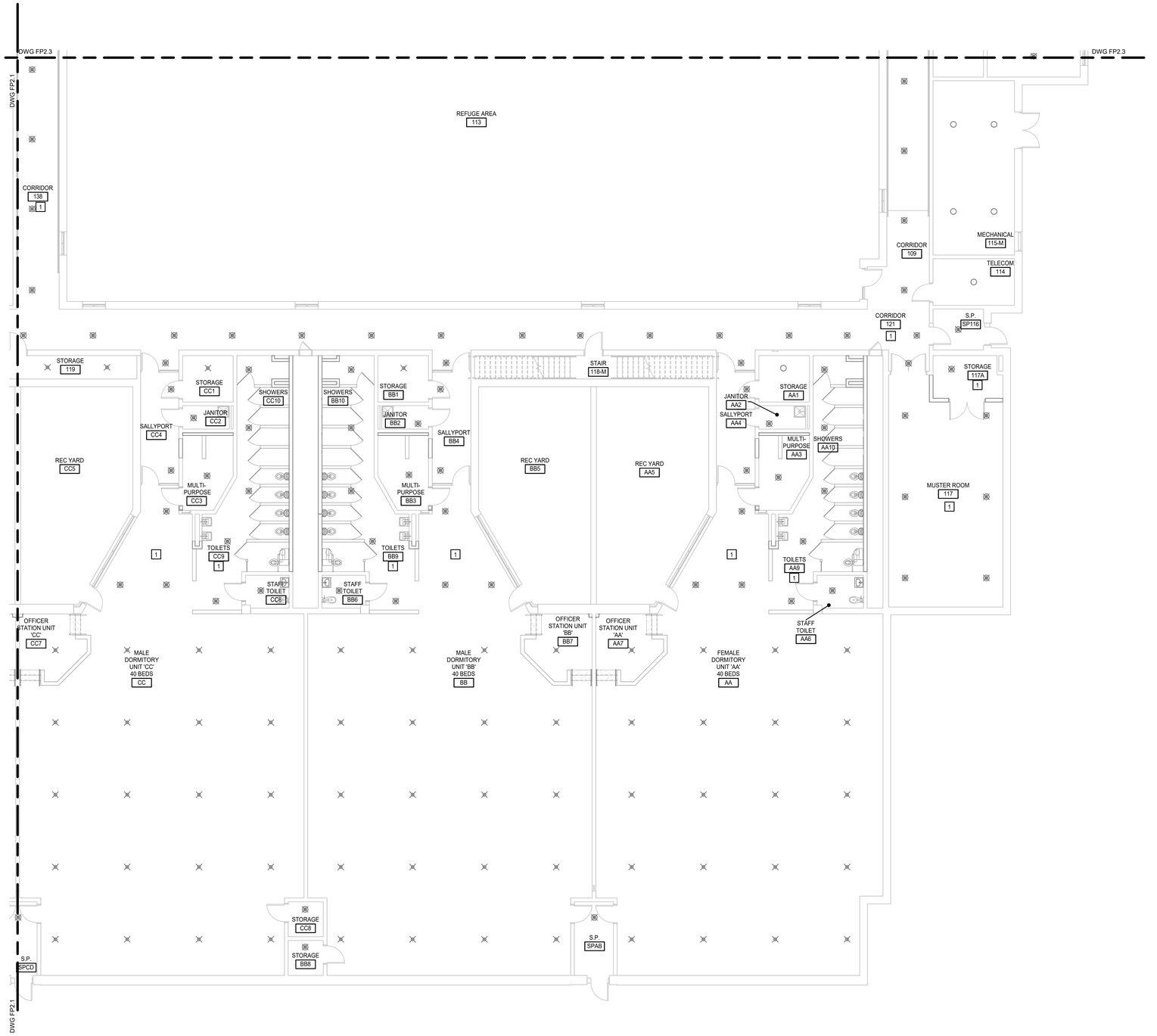
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FIRE PROTECTION KEYNOTES

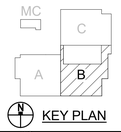
APPLIES TO DRAWINGS FP2.1 - FP2.3
REPRESENTED BY n

1. REPLACE, ADD/ RELOCATE EXISTING FIRE SPRINKLERS TO ACCOMODATE THE RENOVATION OF WALLS AND CEILINGS IN THIS SPACE PER NFPA 13 REQUIEMENTS IN THIS AREA AS REQUIRED.
2. PROVIDE A 4" SYSTEM RISER FOR FIRE SPRINKLER SYSTEM IN EXISTING ANNEX BUILDING. EXISTING SYSTEM RISER IS LOCATED IN MECHANICAL ROOM IN DORMITORY ADDITION.
3. PROVIDE A WET PIPE FIRE SPRINKLER SYSTEM FOR THIS AREA.



N

AREA B -FIRE PROTECTION
1/8" = 1'-0"



KEY PLAN

0' 2' 4' 8' 16'
1/8" = 1'-0"

MOSELEYARCHITECTS
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NORTH CAROLINA PROFESSIONAL SEAL 043951 10/13/25 ENGINEER KEITH T WHITE

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

FIRE PROTECTION FLOOR PLAN - AREA B

FP2.2

10/13/2025 10:54:49 AM

FIRE PROTECTION KEYNOTES

APPLIES TO DRAWINGS FP2.1 - FP2.3
REPRESENTED BY [n]

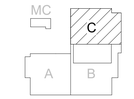
1. REPLACE, ADD/ RELOCATE EXISTING FIRE SPRINKLERS TO ACCOMODATE THE RENOVATION OF WALLS AND CEILINGS IN THIS SPACE PER NFPA 13 REQUIEMENTS IN THIS AREA AS REQUIRED.
2. PROVIDE A 4" SYSTEM RISER FOR FIRE SPRINKLER SYSTEM IN EXISTING ANNEX BUILDING. EXISTING SYSTEM RISER IS LOCATED IN MECHANICAL ROOM IN DORMITORY ADDITION.
3. PROVIDE A WET PIPE FIRE SPRINKLER SYSTEM FOR THIS AREA.



N

AREA C -FIRE PROTECTION
1/8" = 1'-0"

0' 2' 4' 8' 16'
1/8" = 1'-0"



KEY PLAN

MOSELEYARCHITECTS
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PHONE (704) 540-3755 FAX (704) 540-3754
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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER PRINT T WHITE

MOSELEY ARCHITECTS P.C. REGISTERED ARCHITECTS INCORPORATED NORTH CAROLINA CHARLOTTE 50149

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: 10/13/2025

REVISIONS	
DATE	DESCRIPTION

FIRE PROTECTION FLOOR PLAN - AREA C

FP2.3

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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 HOLLOW CORE PLANK FLOORS AND ROOF.

P. DUCT RUNOUT SIZES TO DIFFUSERS AND GRILLES ARE THE SAME AS THE DIFFUSER/GRILLE NECK SIZE UNLESS INDICATED OTHERWISE. PROVIDE RECTANGULAR TO ROUND TRANSITIONS WHERE THE BRANCH DUCT IS TALLER THAN THE TRUNK DUCT.

Q. PROVIDE RECTANGULAR TO ROUND TRANSITIONS AS REQUIRED TO CONNECT FLEXIBLE DUCTWORK TO DIFFUSERS OR GRILLES WITH SQUARE OR RECTANGULAR NECKS.

R. PROVIDE RECTANGULAR TO ROUND TRANSITION TO CONNECT FLEXIBLE DUCTWORK TO DIFFUSERS OR GRILLES WITH SQUARE OR RECTANGULAR NECK.

S. WHEN SECURITY BARS AND LIFE SAFETY DAMPERS (FIRE DAMPERS, SMOKE AND FIRE-SMOKE DAMPERS) ARE INSTALLED IN THE SAME WALL PROVIDE THE SECURITY BARS AS AN ACCESSORY/OPTION TO BE INCLUDED WITH THE LIFE SAFETY DAMPER. THE LIFE SAFETY DAMPER MANUFACTURER SHALL PROVIDE A COMPLETE ASSEMBLY THAT INCLUDES THE SECURITY BARS WITH THE LIFE SAFETY DAMPER, FACTORY INSTALLED AND UL LISTED. FIELD CONSTRUCTED ASSEMBLIES OF LIFE SAFETY DAMPERS WITH SECURITY BARS INSTALLED IN THE SAME WALL WILL BE REJECTED.

EQUIPMENT ABBREVIATIONS

ACC	AIR-COOLED CHILLER
ACCU	AIR-COOLED CONDENSING UNIT
AHU	AIR-HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
CHWP	CHILLED WATER PUMP
CRAC	COMPUTER ROOM AIR CONDTIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
D	DAMPER
ECH	ELECTRIC CEILING HEATER
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
F	FAN
FCU	FAN COIL UNIT
HP	HEAT PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
IH	INTAKE HOOD
P	PUMP
RH	RELIEF HOOD
RTU	ROOFTOP UNIT
SEF	SMOKE EXHAUST FAN
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME TERMINAL UNIT

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
DSD	DUCT SMOKE DETECTOR
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
VSR	VOLTAGE SENSING RELAY

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
D	DRAIN, DAMPER
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
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
VIF	VERIFY IN FIELD
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 / M5.1 — **DETAIL TITLE**: 1/4"=1'-0"; DETAIL NUMBER; DRAWING WHERE DETAIL IS INDICATED; DRAWING WHERE DETAIL IS REFERENCED; ADDITIONAL DRAWING REFERENCES

1 / M4.1 — **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
- 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)

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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER KEITH T WHITE
10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

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GRILLE, REGISTER, & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	MOUNTING STYLE	NECK SIZE	FACE SIZE	MAX NC LEVEL	NOTES
S1	PRICE	ASCDA	LAY-IN	6ø	24x24	18	-
S2	PRICE	ASCDA	LAY-IN	8ø	24x24	18	-
S3	PRICE	ASCDA	LAY-IN	10ø	24x24	18	-
S4	PRICE	ASCDA	LAY-IN	12ø	24x24	18	-
S5	PRICE	MSPG	SECURITY	8x8	10x10	25	1, 2
S6	PRICE	MSPG	SECURITY	14x14	16x16	25	1, 2
S7	PRICE	510	SURFACE	14X8	16X10	25	1, 2
R1	PRICE	635-TB	LAY-IN	22x22	24x24	18	-
R3	PRICE	PDDR	LAY-IN	6x6	24x24	18	1,2
R4	PRICE	PDDR	LAY-IN	8x8	24x24	18	1,2
E1	PRICE	635-TB	LAY-IN	22x22	24x24	25	-
E2	PRICE	MSPG	SECURITY	12x12	14x14	25	1, 2
E3	PRICE	MSSL	SECURITY	30x30	32x32	25	1, 2
E4	PRICE	MSPG	SECURITY	14x14	18x16	25	1, 2
E5	PRICE	MSPG	SECURITY	24x24	26x26	25	1, 2
E6	PRICE	MSPG	SECURITY	18x18	20x20	25	1, 2
E7	PRICE	MSSL	SECURITY	22x22	24x24	25	1, 2
E8	PRICE	MSPG	SURFACE	24x24	26x26	25	-
E9	PRICE	MSPG	SECURITY	32x24	34x26	25	1, 2
E10	PRICE	635-F	SURFACE	6x6	8x8	25	-
T1	PRICE	635-TB	LAY-IN	22x22	24x24	18	-
T2	PRICE	MSPG	SECURITY	22x22	24x24	18	1
T3	PRICE	MSPG	SECURITY	16x16	18x18	18	-

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. DAMPER MAY BE OMITTED ON SMOKE EXHAUST SYSTEMS WHERE DRAWINGS INDICATE A SMOKE CONTROL MANUAL BALANCING DAMPER IS TO BE INSTALLED IN RUNOUT SERVING GRILLE.

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-5	GREENHECK	G-080-D	TOILET EXHAUST	ROOF MTD. CENTRIFUGAL	210	0.38	1550	BELT	7.6	BAS SCHEDULE	1/20	120	1	60	50	1, 2, 4
EF-6	GREENHECK	G-080-D	JANITOR EXHAUST	ROOF MTD. CENTRIFUGAL	190	0.38	1550	BELT	7.6	BAS SCHEDULE	1/20	120	1	60	50	1, 2, 4
EF-11	GREENHECK	G-080-D	INMATE PROPERTY EXHAUST	ROOF MTD. CENTRIFUGAL	200	0.38	1550	BELT	7.6	BAS SCHEDULE	1/20	120	1	60	50	1, 2, 4
EF-13	GREENHECK	SQ-120	HOLDING CELL EXHAUST	INLINE CENTRIFUGAL	800	0.55	1140	DIRECT	5.8	BAS SCHEDULE	1/4	120	1	60	80	1
EF-14	GREENHECK	G-120-B	TOILET/JANITOR EXHAUST	ROOF MTD. CENTRIFUGAL	650	0.68	1140	DIRECT	7.9	BAS SCHEDULE	1/4	120	1	60	100	1, 2, 4
EF-15	GREENHECK	CUE-100-A	DISH HOOD	CENTRIFUGAL ROOF UPBLAST	1,000	0.95	1725	DIRECT	9.8	DISH HOOD SWITCH	1/3	120	1	60	100	1, 2, 4
EF-16	GREENHECK	GB-120	KITCHEN	ROOF MTD. CENTRIFUGAL	1,250	0.75	1420	BELT	11.9	BAS SCHEDULE	1/2	120	1	60	100	1, 2, 4
EX EF-1	GREENHECK	GB-130	DORM AA TOILET EXHAUST	ROOF MTD. CENTRIFUGAL	1,240	0.63	1230	BELT	9.7	BAS SCHEDULE	1/3	120	1	60	43	5
EX EF-2	GREENHECK	GB-180	DORM BB & CC TOILET EXHAUST	ROOF MTD. CENTRIFUGAL	2,480	0.75	925	BELT	10.0	BAS SCHEDULE	3/4	480	3	60	43	5
EX EF-3	GREENHECK	GB-180	DORM DD & EE TOILET EXHAUST	ROOF MTD. CENTRIFUGAL	2,480	0.75	925	BELT	10.0	BAS SCHEDULE	3/4	480	3	60	43	5
EX EF-4	GREENHECK	GB-130	DORM FF TOILET EXHAUST	ROOF MTD. CENTRIFUGAL	1,240	0.63	1230	BELT	9.7	BAS SCHEDULE	1/3	120	1	60	43	5
EX SEF-1	GREENHECK	RBUMO-3H36	DORM AA SMOKE EXHAUST (ZONE 3)	PROPELLER ROOF UPBLAST	12,000	0.50	985	BELT	37.0	SMOKE CONTROL	3	480	3	60	500	5
EX SEF-2	GREENHECK	RBUMO-3H36	DORM BB SMOKE EXHAUST (ZONE 3)	PROPELLER ROOF UPBLAST	12,000	0.50	985	BELT	37.0	SMOKE CONTROL	3	480	3	60	500	5
EX SEF-3	GREENHECK	RBUMO-3H36	DORM CC SMOKE EXHAUST (ZONE 3)	PROPELLER ROOF UPBLAST	12,000	0.50	985	BELT	37.0	SMOKE CONTROL	3	480	3	60	500	5
EX SEF-4	GREENHECK	RBUMO-3H36	DORM DD SMOKE EXHAUST (ZONE 2)	PROPELLER ROOF UPBLAST	12,000	0.50	985	BELT	37.0	SMOKE CONTROL	3	480	3	60	500	5
EX SEF-5	GREENHECK	RBUMO-3H36	DORM EE SMOKE EXHAUST (ZONE 2)	PROPELLER ROOF UPBLAST	12,000	0.50	985	BELT	37.0	SMOKE CONTROL	3	480	3	60	500	5
EX SEF-6	GREENHECK	RBUMO-3H36	DORM FF SMOKE EXHAUST (ZONE 2)	PROPELLER ROOF UPBLAST	12,000	0.50	985	BELT	37.0	SMOKE CONTROL	3	480	3	60	500	5
EX SEF-7	GREENHECK	RBUMO-3H36	CLINIC SMOKE EXHAUST (ZONE 1)	CENTRIFUGAL ROOF UPBLAST	11,000	0.75	1080	BELT	46.0	SMOKE CONTROL	7.5	480	3	60	500	5
EX SEF-8	GREENHECK	RBUMO-3H30	CORRIDOR SMOKE EXHAUST (ZONE 1)	CENTRIFUGAL ROOF UPBLAST	8,000	0.75	1225	BELT	39.0	SMOKE CONTROL	5	480	3	60	450	5
SEF-7C	GREENHECK	QEI-24-I	CORRIDOR SMOKE EXHAUST (ZONE 1)	MIXED FLOW INLINE	11,630	2.50	1675	BELT	25.0	SMOKE CONTROL	10	480	3	60	700	3
SEF-9	GREENHECK	CUBE-180	LAUNDRY SMOKE EXHAUST (ZONE 1)	CENTRIFUGAL ROOF UPBLAST	3,250	1.50	1325	BELT	17.3	SMOKE CONTROL	2	480	3	60	200	2, 3, 4
SEF-78C	GREENHECK	QEI-20-I	CORRIDOR SMOKE EXHAUST (ZONE 1)	MIXED FLOW INLINE	7,410	2.50	1785	BELT	20.0	SMOKE CONTROL	7.5	480	3	60	500	3, 4, 6

NOTES:
1. PROVIDE FAN WITH PSC MOTOR AND SPEED CONTROLLER FOR BALANCING FAN..
2. PROVIDE WITH CURB ADAPTER FOR MOUNTING FAN ON EXISTING ROOF CURB.
3. FAN STARTERS AND DISCONNECTS BY DIVISION 26. ASSOCIATED MOTORIZED DAMPER IS 120V, 2-POSITION,FAIL OPEN WITH END SWITCH. PROVIDE DIFFERENTIAL PRESSURE (AIRFLOW) SWITCH. INCLUDE MINIMUM 1.5 TIMES NUMBER OF BELTS REQUIRED, MINIMUM OF 2. EXHAUST FANS MUST BE LISTED IN UL DIRECTORY NUMBER UNDER "POWER VENTILATORS FOR SMOKE CONTROL SYSTEM" WITH MOTORIZED DAMPER. COORDINATE POSITION MONITORING OF THE MOTORIZED DAMPER WITH DIVISION 26. DAMPER AND FAN CONTROL BY THE BUILDING AUTOMATION SYSTEM FOR SMOKE CONTROL.
4. PROVIDE LEVEL A SECURITY BARS IN DUCTWORK AT EACH ROOF PENETRATION.
5. FAN IS EXISTING TO REMAIN. FAN SCHEDULED FOR INFORMATION PURPOSES ONLY AND FOR SYSTEM BALANCING.
6. PROVIDE WITH ROOF CURB.

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE INLET DIA (IN)	AIR VALVE MAX AIRFLOW (CFM)	AIR VALVE MIN AIRFLOW (CFM)	COIL DESIGN AIRFLOW (CFM)	COIL CAPACITY (BTUH)	COIL EAT (°F)	COIL LAT (°F)	COIL FLOW RATE (GPM)	COIL MAX WPD (FT WG)	COIL EWT (°F)	COIL LWT (°F)	COIL ROWS (NO)	WEIGHT (LBS)	NOTES
EX VAV1-1	TRANE	VCWF	16	2100	800	800	51,800	55	90.0	5.18	10.0	140	120.0	2	35	2
EX VAV1-2	TRANE	VCWF	12	1600	800	800	51,800	55	90.0	5.18	10.0	140	120.0	2	35	1
EX VAV1-3	TRANE	VCWF	12	1600	800	800	51,800	55	90.0	5.18	10.0	140	120.0	2	35	1
EX VAV1-4	TRANE	VCWF	12	1600	800	800	51,800	55	90.0	5.18	10.0	140	120.0	2	35	1
EX VAV1-5	TRANE	VCWF	12	1300	800	800	51,800	55	90.0	5.18	10.0	140	120.0	2	35	2
EX VAV-7-3	TRANE	VCWF	8	400	125	400	21,600	55	85.0	2.16	10.0	140	120.0	2	35	4
VAV-1-6	TRANE	VCWF	8	490	200	200	6,040	55	97.9	1.00	10.0	140	120.0	2	35	3

NOTES:
1. VAV TERMINAL UNIT IS EXISTING TO REMAIN. INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. VAV TERMINAL UNIT IS EXISTING TO REMAIN. BALANCE AND ADJUST SETPOINTS OF VAV TERMINAL UNIT TO VALUES SCHEDULED.
3. PROVIDE TERMINAL UNIT AND BALANCE TO VALUES LISTED.
4. EXISTING TERMINAL UNIT TO BE RELOCATED. BALANCE AND SET VAV TERMINAL UNIT TO VALUES LISTED.

FIRE ALARM / SMOKE CONTROL MATRIX

EVENT ZONE	SMOKE DETECTOR SYSTEM ID TAG(S)	DUCT SMOKE DETECTOR SYSTEM ID TAG(S)	FLOW SWITCH SYSTEM ID TAG(S)	DAMPER: FAN DAMPERS OPEN	DAMPER: SMOKE DAMPERS CLOSE	EQUIPMENT: ON	EQUIPMENT: OFF
SMOKE ZONE 1	REFER TO PLANS	DSD-AHU-7, DSD-AHU-8	N/A	D-AHU-70A, D-AHU-80A, D-SEF-7, D-SEF-8, D-SEF-7C,D-SEF-78C, D-EF-13S, D-SEF-9, D-IV-1	D-SEF-7R1, D-SEF-7R2, D-EF-13, D-SEF-8R1, D-SEF-8R2, D-AHU-7R, D-AHU-7E, D-AHU-8R, D-AHU-8E, FSD-1, FSD-2, FSD-3, FSD-4, FSD-5, FSD-6, FSD-7, FSD-8, FSD-9, FSD-10, & FSD-11	AHU-7, AHU-8, SEF-7, SEF-8, SEF-7C, SEF-78C, SEF-9	EF-13, RTU-1
SMOKE ZONE 2	REFER TO PLANS	DSD-AHU-4, DSD-AHU-5, DSD-AHU-6	N/A	D-AHU-40A, D-AHU-50A, D-AHU-60A, D-SEF-4, D-SEF-5, D-SEF-6	D-AHU-4R, D-AHU-4E, D-AHU-5R, D-AHU-5E, D-AHU-6R, D-AHU-6E	AHU-4, AHU-5, AHU-6, SEF-4, SEF-5, SEF-6	-
SMOKE ZONE 3	REFER TO PLANS	DSD-AHU-1, DSD-AHU-2, DSD-AHU-3	N/A	D-AHU-10A, D-AHU-20A, D-AHU-30A, D-SEF-1, D-SEF-2, & D-SEF-3	D-AHU-1R, D-AHU-1E, D-AHU-2R, D-AHU-2E, D-AHU-3R, D-AHU-3E	AHU-1, AHU-2, AHU-3, SEF-1, SEF-2, SEF-3	-

GENERAL NOTES:
A. THIS MATRIX IS ONLY FOR SMOKE CONTROL. REFER TO FIRE ALARM INPUT-OUTPUT MATRIX, BUILDING AUTOMATION CONTROL SYSTEM AND FIREFIGHTER SMOKE CONTROL PANEL DETAIL FOR COMPLETE OPERATION REQUIREMENTS.
B. DIVISION 23 SHALL PROVIDE EACH SMOKE SYSTEM FAN WITH A DIFFERENTIAL PRESSURE SWITCH. REFER TO CONTROLS DRAWINGS AND SEQUENCES FOR ADDITIONAL DETAILS.
C. PROVIDE EACH SMOKE SYSTEM FAN AND SMOKE CONTROL DAMPER WITH POWER DISCONNECTING MEANS (DIV 26), VOLTAGE SENSING RELAY (DIV 23), AND TO CONFIRM POWER AVAILABLE. LOSS OF POWER SHALL CAUSE AN ALARM CONDITION FOR DEVICE/EQUIPMENT AND ZONE AT ANY TIME.
D. DIVISION 23 SHALL PROVIDE EACH CONTROL DAMPER WITH LIMIT SWITCHES. REFER TO CONTROLS DIAGRAMS AND SEQUENCES FOR ADDITIONAL DETAILS.
E. DIVISION 23 SHALL PROVIDE MECH EQUIPMENT IN THE "OFF" COLUMN WITH CURRENT SENSING RELAY AT LAST DISCONNECT MEANS, TO CONFIRM CURRENT IS NOT FLOWING TO EQUIPMENT. PRESENCE OF CURRENT SHALL CAUSE TROUBLE CONDITION FOR EQUIPMENT AND ZONE DURING SMOKE CONTROL MODE.
F. FIREFIGHTERS MANUAL OVERRIDE PANEL SHALL CAUSE SMOKE CONTROL SYSTEM OPERATION AS INDICATED FOR A SMOKE DETECTOR IN THE AFFECTED ZONE, BUT SHALL NOT CAUSE ALARM CONDITION TO OCCUR (SUPERVISORY CONDITION SHALL OCCUR IN MANUAL OR OFF MODES).
G. MEASURE AND RECORD THE PRESSURE DIFFERENCE ACROSS EACH DOOR THAT SEPARATES THE SMOKE ZONE FROM ADJACENT ZONES. ADJUST SMOKE CONTROL FANS AS NECESSARY TO ACHIEVE THE FOLLOWING PRESSURE DIFFERENTIAL ACROSS THE BOUNDARIES: MIN PRESSURE DIFFERENTIAL: +0.05 IN. W.C. MAX PRESSURE DIFFERENTIAL: +0.08 IN .W.C
H. DURING SMOKE CONTROL MODE, SMOKE FANS SHALL BE DELAYED 15 SECONDS SO THAT SMOKE CONTROL DAMPERS ARE SUFFICIENTLY OPEN TO PREVENT DEADHEADING OF FANS, TEST THIS OPERATION AND ADJUST DELAY AS REQUIRED.
I. MOTORIZED SMOKE CONTROL FAN DAMPERS ARE 120V, 2-POSITION.
J. FIRE ALARM PANEL SHALL PROVIDE (1) DESCRETE I/O OUTPUT, FOR EACH SMOKE ZONE, TO THE BUILDING AUTOMATION SYSTEM. ACTIVATION OF A DETECTOR OR MULTIPLE DETECTORS WITHIN EACH SMOKE ZONE SHALL INITIATE ALARM CONDITION OUTPUT TO BUILDING AUTOMATION SYSTEM.

COMPUTER ROOM AIR CONDITIONING UNIT - INDOOR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	LOCATION	COOLING TOTAL CAPACITY (BTUH)	COOLING INDOOR EAT (°F DB)	COOLING INDOOR EAT (°F WB)	COOLING SUPPLY AIRFLOW (CFM)	ELECTRICAL DATA MCA (A)	ELECTRICAL DATA MOCP (A)	ELECTRICAL DATA SERVICE (V)	ELECTRICAL DATA SERVICE (PH)	ELECTRICAL DATA SERVICE (HZ)	WEIGHT (LBS)	NOTES
CRU-1	LIEBERT	PX018	DATA	64,100	80	67	2,700	36.8	40	480	3	60	750	1

NOTES
1. HUMIDIFIER (7.7 LB STEAM PER HOUR), DUAL COOL WITH CHILLED WATER AND DX COIL (DX COIL DATA INDICATED ABOVE). CHW COIL 70 MBH AT 22.1 GPM, 2-WAY VALVE BY FACTORY AND 45-55F ENTERING AND LEAVING WATER TEMPERATURES. INCLUDE CONDENSATE PUMP AND LEAK DETECTION. UNIT MOUNTED FACTORY DISCONNECT. SMOKE DETECTOR BY FACTORY. FRONT RETURN, 13 kW ELECTRIC REHEAT.
2. PROVIDE BACNET IP INTERFACE FOR CONNECTION TO BUILDING AUTOMATION SYSTEM.

COMPUTER ROOM AIR CONDITIONING UNIT - OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	REFRIGERANT	AMBIENT AIR TEMPERATURE (°F)	MCA (A)	MOCP (A)	(V)	(PH)	(HZ)	WEIGHT (LBS)
ACCU-1	LIEBERT	MCS028	R32	95.0	2	15	460	3	60	200

NOTES
1. INCLUDE LOW AMBIENT CONTROL.

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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER TIMOTHY WHEELER
10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 842088
DATE: OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

SCHEDULES

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KEYNOTES

APPLIES TO THIS DRAWING

1 REMOVE TRANSFER DUCT AND SECURITY BARS, TYPICAL.

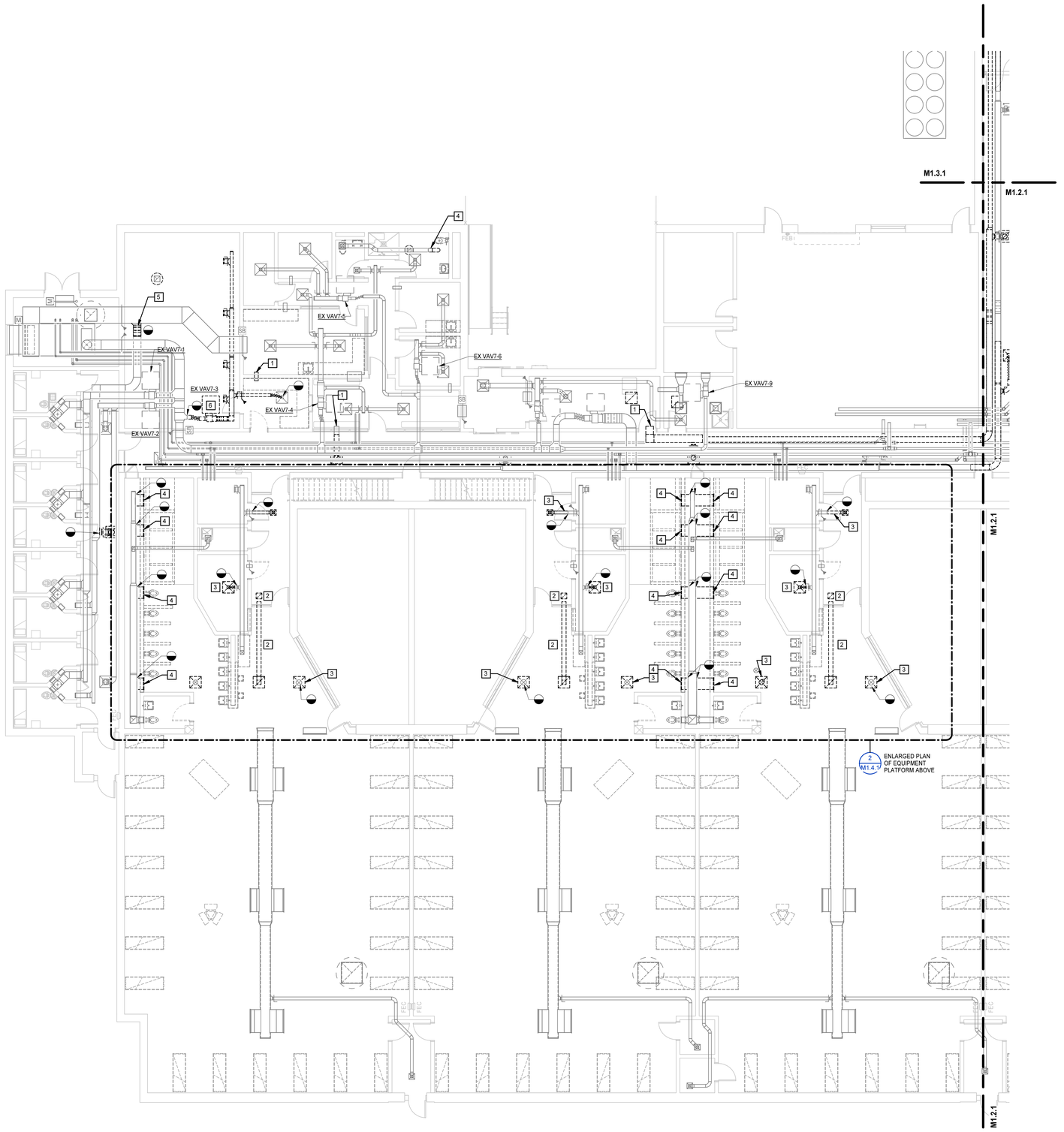
2 REMOVE RETURN/TRANSFER GRILLE AND ASSOCIATED DUCTWORK.

3 REMOVE SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK TO EXTENT INDICATED. PREPARE SUPPLY DUCT FOR RECONNECTION.

4 REMOVE EXHAUST DUCTWORK AND GRILLES TO EXTENT INDICATED. TYPICAL. PREPARE EXISTING EXHAUST DUCT MAIN FOR RECONNECTION.

5 REMOVE RETURN DUCTWORK TO EXTENT INDICATED. PATCH RETURN DUCT MAIN. DUCT TO BE RE-ROUTED TO EXHAUST FAN FROM HOLDING AREAS.

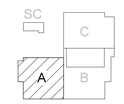
6 SALVAGE TERMINAL UNIT FOR RELOCATION. REMOVE HHW PIPING RUNOUTS SERVING UNIT BACK TO THE MAIN AND CAP.



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FLOOR PLAN - PART A - DEMOLITION

1/8" = 1'-0"



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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER SCOTT T WHITFIELD

10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 842088
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FLOOR PLAN - PART A - DEMOLITION

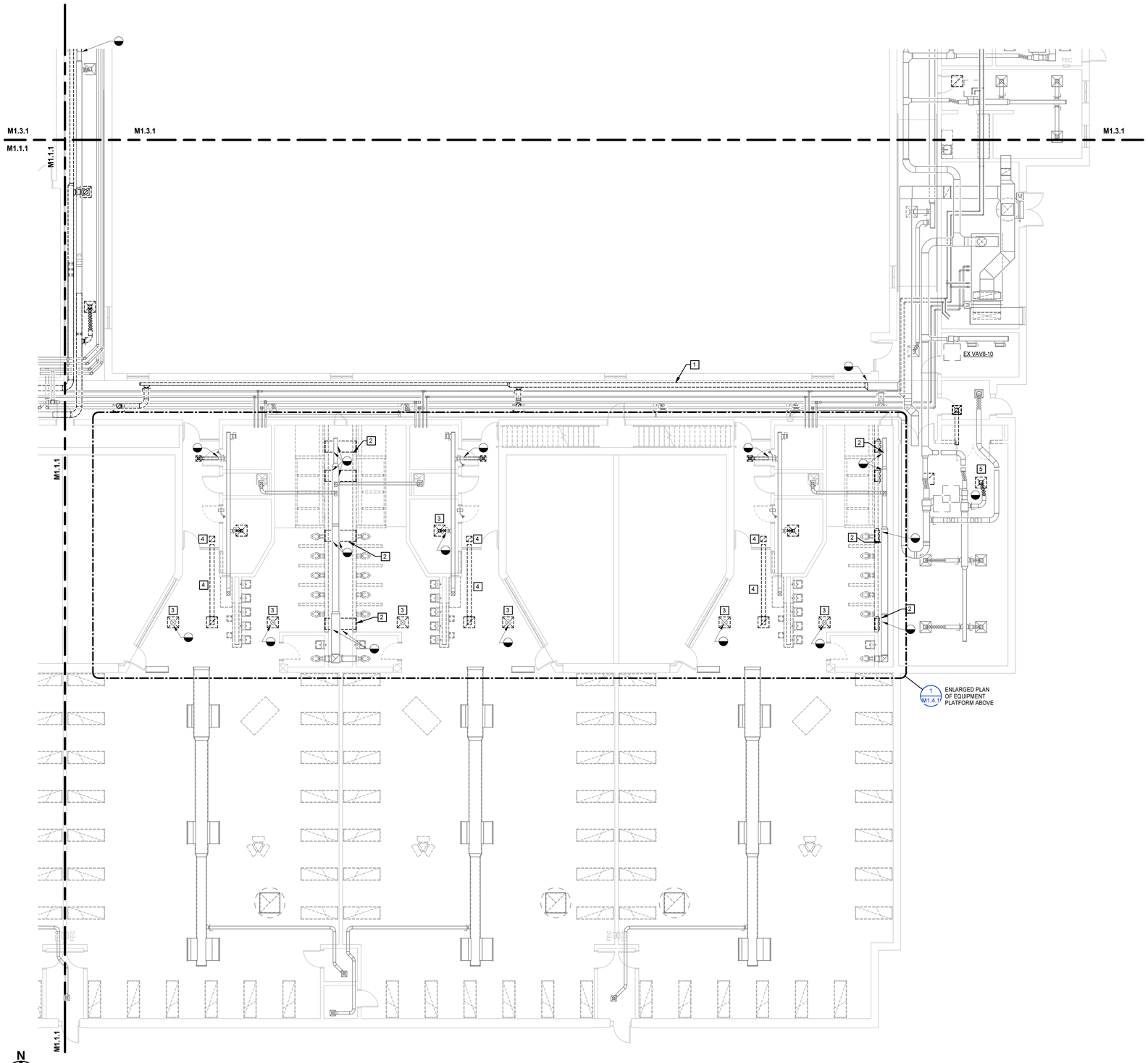
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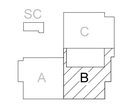
APPLIES TO THIS DRAWING

1. REMOVE RETURN DUCTWORK AND ASSOCIATED GRILLES TO EXTENT INDICATED.
2. REMOVE EXHAUST DUCTWORK AND GRILLES TO EXTENT INDICATED, TYPICAL. PREPARE EXISTING EXHAUST DUCT MAIN FOR RECONNECTION.
3. REMOVE SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK TO EXTENT INDICATED. PREPARE SUPPLY DUCT FOR RECONNECTION.
4. REMOVE RETURN/TRANSFER GRILLE AND ASSOCIATED DUCTWORK.
5. SALVAGE DIFFUSER FOR RELOCATION.



FLOOR PLAN - PART B - DEMOLITION

1/8" = 1'-0"



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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER BRITTNEY T WHITLEY

10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
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FLOOR PLAN - PART B - DEMOLITION

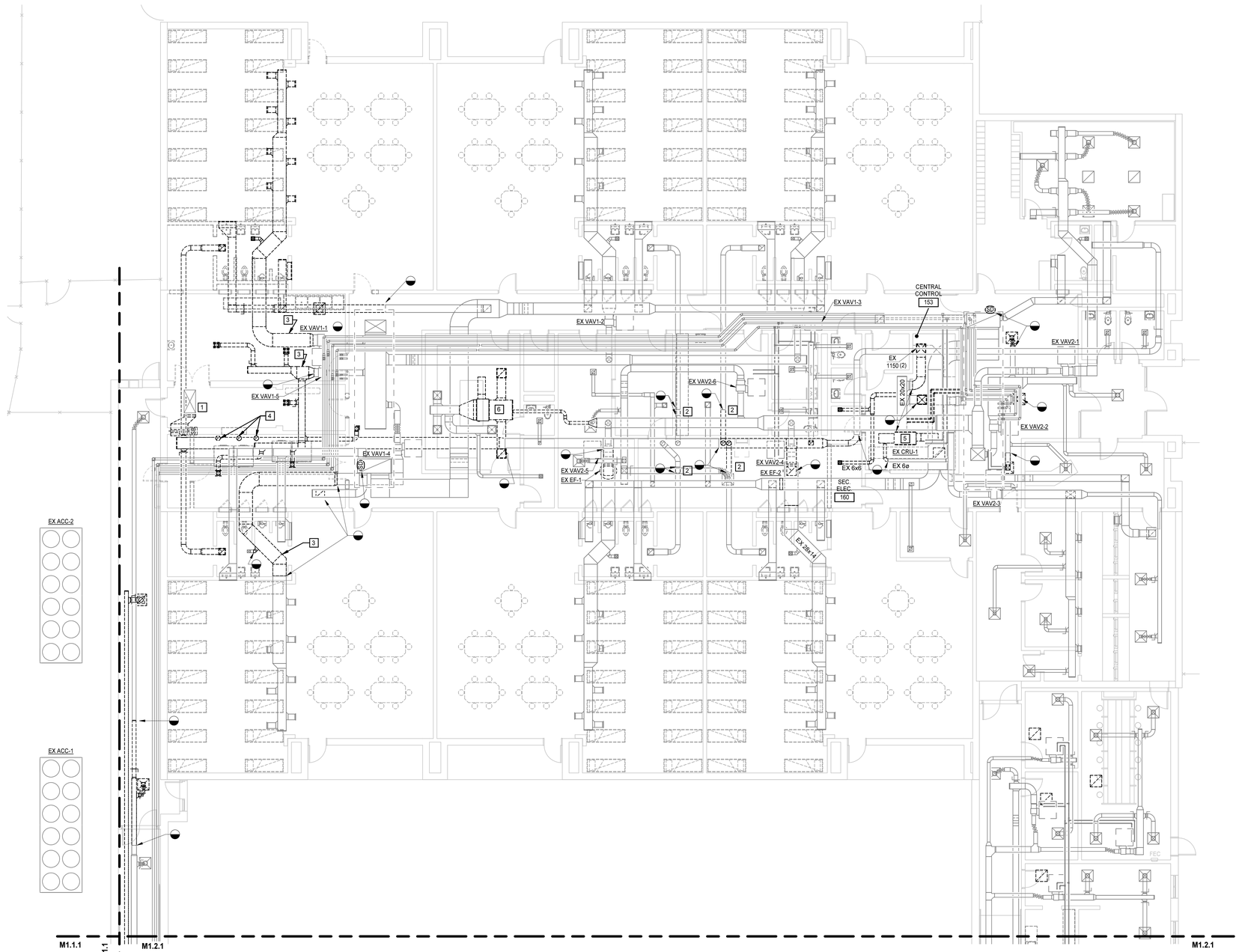
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KEYNOTES

APPLIES TO THIS DRAWING

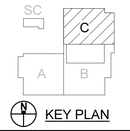
1. REMOVE GRAVITY VENTILATOR DUCTWORK AND SECURITY BARS. INFILL WALL. RETAIN GRAVITY VENTILATOR FOR USE WITH SMOKE CONTROL MAKEUP AIR.
2. CUT AND CAP EXHAUST DUCT FROM FORMER TOILET AREA. CAP & SEAL DUCTWORK FROM MAIN, ABANDON IN PLACE ALL EXHAUST DUCTWORK TO FORMER RESTROOM.
3. REMOVE SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK TO EXTENT INDICATED. PREPARE SUPPLY DUCT FOR RECONNECTION.
4. REMOVE DRYER VENT UP THROUGH ROOF. CAP CURB ON ROOF. REFER TO ROOF CURB CAP DETAIL.
5. REMOVE COMPUTER ROOM UNIT AND ASSOCIATED CONTROLS. REMOVE DUCTWORK AND PIPING TO EXTENTS INDICATED. CAP AND INSULATE HOT WATER SUPPLY AND RETURN PIPING AT CONNECTION TO MAIN.
6. REMOVE FAN COIL UNIT AND ASSOCIATED REFRIGERANT PIPING, CONDENSING UNIT AND CONTROLS. REMOVE DUCTWORK TO EXTENT INDICATED.



N

FLOOR PLAN - PART C - DEMOLITION

1/8" = 1'-0"



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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER MATTHEW WHITE

10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

FLOOR PLAN - PART C - DEMOLITION

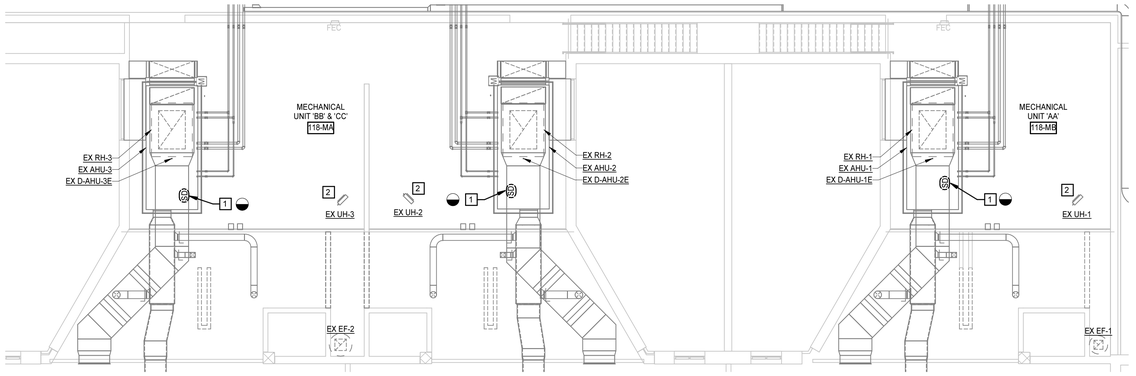
M1.3.1

10/10/2025 3:52:11 PM

KEYNOTES

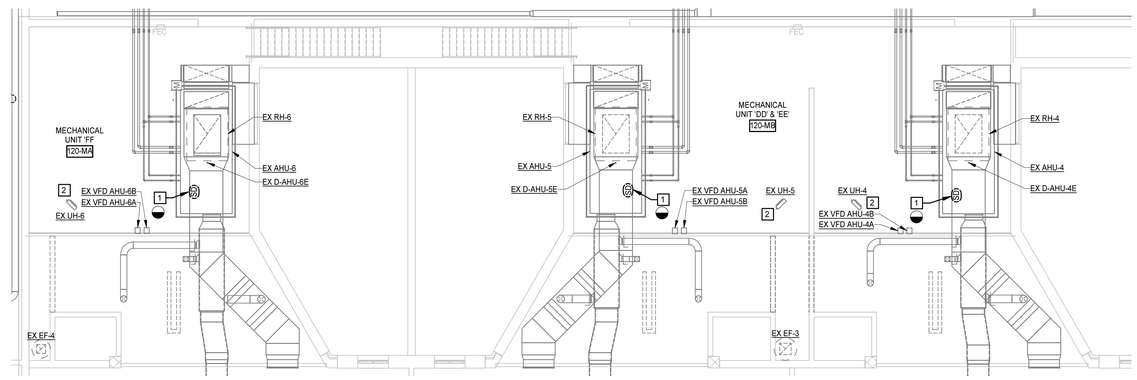
APPLIES TO THIS DRAWING

1	REMOVE DUCT SMOKE DETECTOR, PREPARE DUCT FOR NEW DUCT SMOKE DETECTOR.
2	SALVAGE UNIT HEATER FOR RELOCATION.



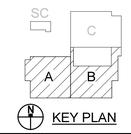
1 M1.1.1 M1.4.1 **ENLARGED PLAN - MEZZANINE A, B & C**

1/8" = 1'-0"



2 M1.1.1 M1.4.1 M2.2.2 **ENLARGED PLAN - MEZZANINE E, D, & F**

1/8" = 1'-0"



KEY PLAN

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10/15/2025

DETENTION ANNEX RENOVATION

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Wake County, North Carolina

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REVISIONS	
DATE	DESCRIPTION

MEZZANINE PLANS - DEMOLITION

M1.4.1

10/10/2025 3:52:13 PM

KEYNOTES

APPLIES TO THIS DRAWING

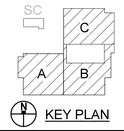
1. REMOVE DRYER VENT UP THROUGH ROOF. CAP CURB ON ROOF. REFER TO ROOF CURB CAP DETAIL.
2. REMOVE FAN COIL UNIT CONDENSING UNIT AND ASSOCIATED PIPING AND CONTROLS.
3. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK AND CONTROLS. CAP EXISTING CURB AND SEAL WEATHERTIGHT.
4. REMOVE EXHAUST FAN AND ALL ASSOCIATED DUCTWORK AND CONTROLS. PREPARE CURB FOR USE WITH NEW FAN.
5. REMOVE EXISTING EXHAUST FAN, RETAIN DUCTWORK, ROOF CURB. PREPARE DUCTWORK FOR INSTALLATION OF NEW FAN.



N

ROOF PLAN - DEMOLITION

1/16" = 1'-0"



KEY PLAN

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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER BRITTNEY T WHITLEY

10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

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DATE	DESCRIPTION

ROOF PLAN - DEMOLITION

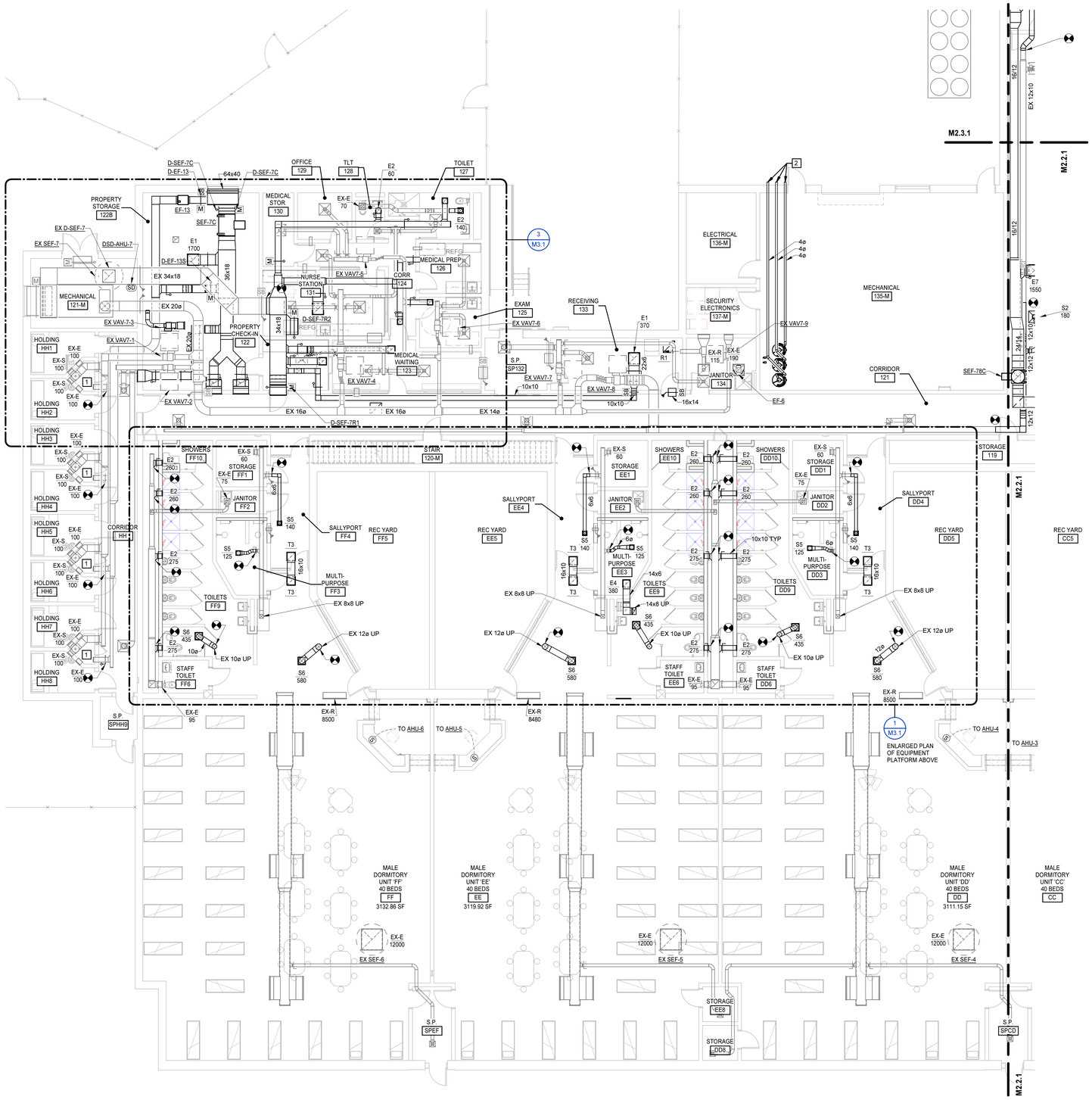
M1.5.1

10/10/2025 3:52:16 PM

KEYNOTES

APPLIES TO THIS DRAWING

1. BALANCE EXHAUST DUCT TO 200 CFM UNDER NORMAL OPERATION. BALANCE TAP TO 500 CFM DURING SMOKE CONTROL EXHAUST OPERATION. BALANCE POINTS SHALL BE SET DURING NORMAL OPERATION. SMOKE CONTROL SHALL BE BALANCED FOR THE SUM OF ALL EXHAUST AT THE BALANCING DAMPER AT D-EF-13S. PROVIDE SMOKE CONTROL RATED BALANCE DAMPER FOR EACH BRANCH.
2. PROVIDE CURB CAP OVER DRYER VENT ROOF TERMINATION. REFER TO CURB CAP DETAIL.



N

FLOOR PLAN - PART A - DUCTWORK

1/8" = 1'-0"

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10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

SC C A B

KEY PLAN

FLOOR PLAN - PART A - DUCTWORK

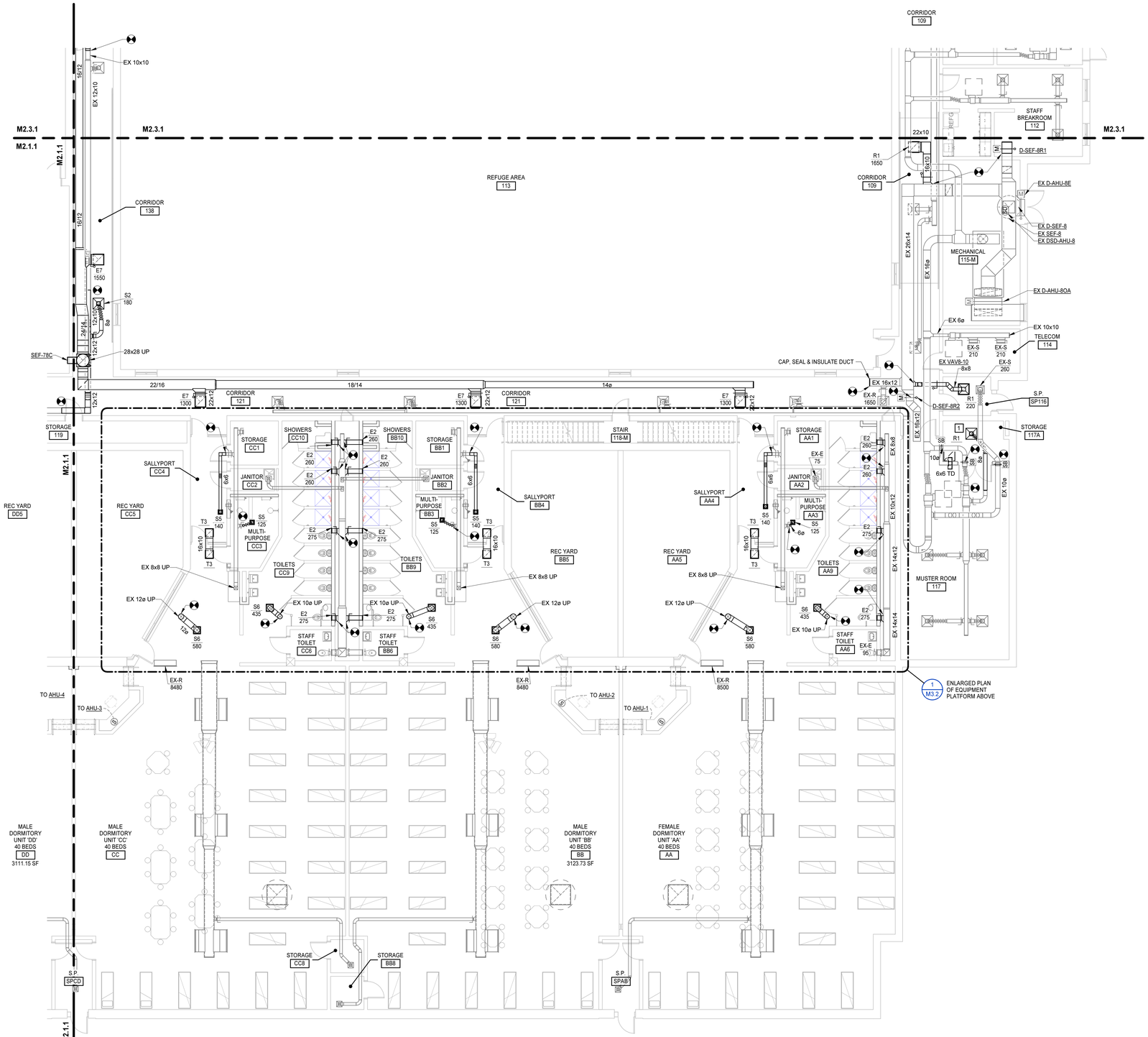
M2.1.1

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KEYNOTES

APPLIES TO THIS DRAWING

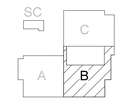
1	RELOCATED SALVAGED DIFFUSER, BALANCE TO 90 CFM.



N

FLOOR PLAN - PART B - DUCTWORK

1/8" = 1'-0"



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10/15/2025

DETENTION ANNEX RENOVATION

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DATE	DESCRIPTION

FLOOR PLAN - PART B - DUCTWORK

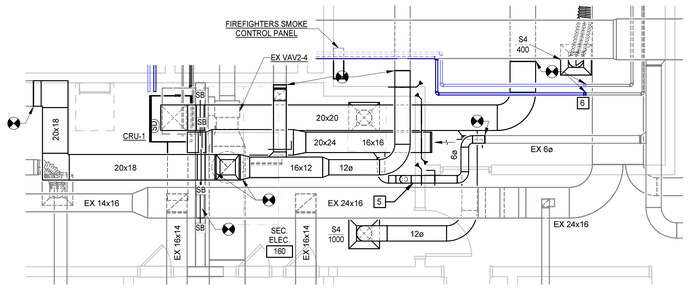
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KEYNOTES

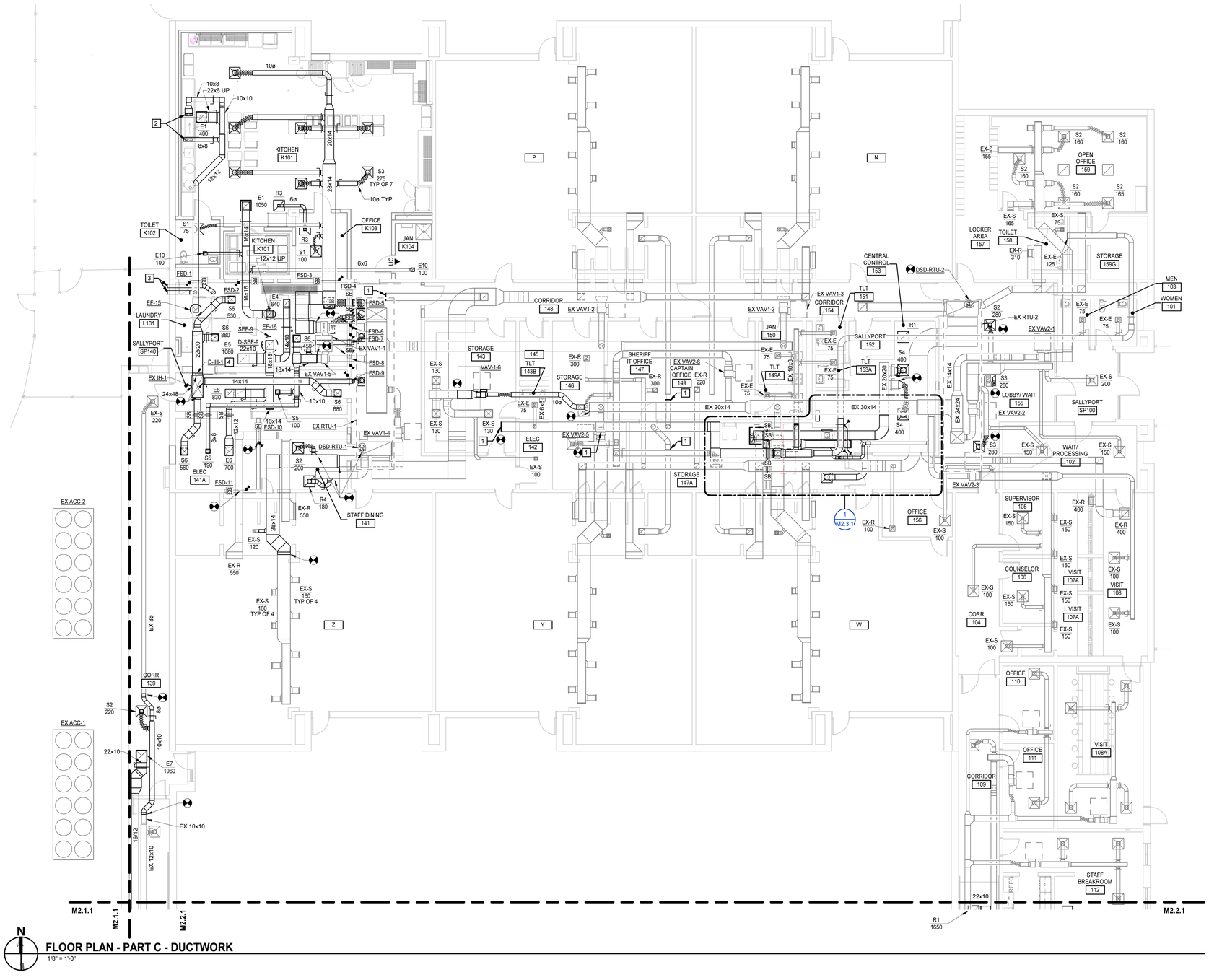
APPLIES TO THIS DRAWING

1. CAP AND SEAL EXHAUST DUCTWORK.
2. 16x4 DUCT DOWN TO DISHWASHER COWLS WITH BALANCING DAMPER. SLOPE ALL DUCTWORK SO WATER DRAINS BACK TO DISHWASHER COWLS. BALANCE BRANCHES TO 200 CFM AT DISHWASHER INLET AND 400 CFM AT DISCHARGE. ALL DISHWASHER DUCTWORK SHALL BE ALUMINUM. REFER TO SECTION 233113 FOR ADDITIONAL DETAILS.
3. 8ø DRYER VENT FROM DRYER CONNECTION THRU SIDEWALL. PROVIDE SIDEWALL VENT TERMINATION.
4. PROVIDE MOTORIZED INTAKE DAMPER IN VERTICAL BETWEEN INTAKE VENTILATOR ON ROOF AND THE DUCTWORK TAPS.
5. BALANCE SUPPLY TO 110 CFM.
6. EXTEND CHW OR HHW PIPING TO UNIT, MATCH EXISTING PIPE SIZE.



1 M2.3.1 M2.3.1 **CRAC UNIT - ENLARGED PLAN**

1/4" = 1'-0"



FLOOR PLAN - PART C - DUCTWORK

1/8" = 1'-0"

KEY PLAN

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10/15/2025

DETENTION ANNEX RENOVATION

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REVISIONS

DATE	DESCRIPTION

FLOOR PLAN - PART C - DUCTWORK

M2.3.1

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KEYNOTES

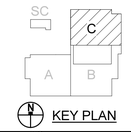
APPLIES TO THIS DRAWING

1 ROUTE CONDENSATE DRAIN DOWN WALL AND TERMINATE ABOVE FLOOD LEVEL OF UTILTIY SINK.



FLOOR PLAN - PART C - PIPING

1/8" = 1'-0"



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10/15/2025

DETENTION ANNEX RENOVATION

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FLOOR PLAN - PART C - PIPING

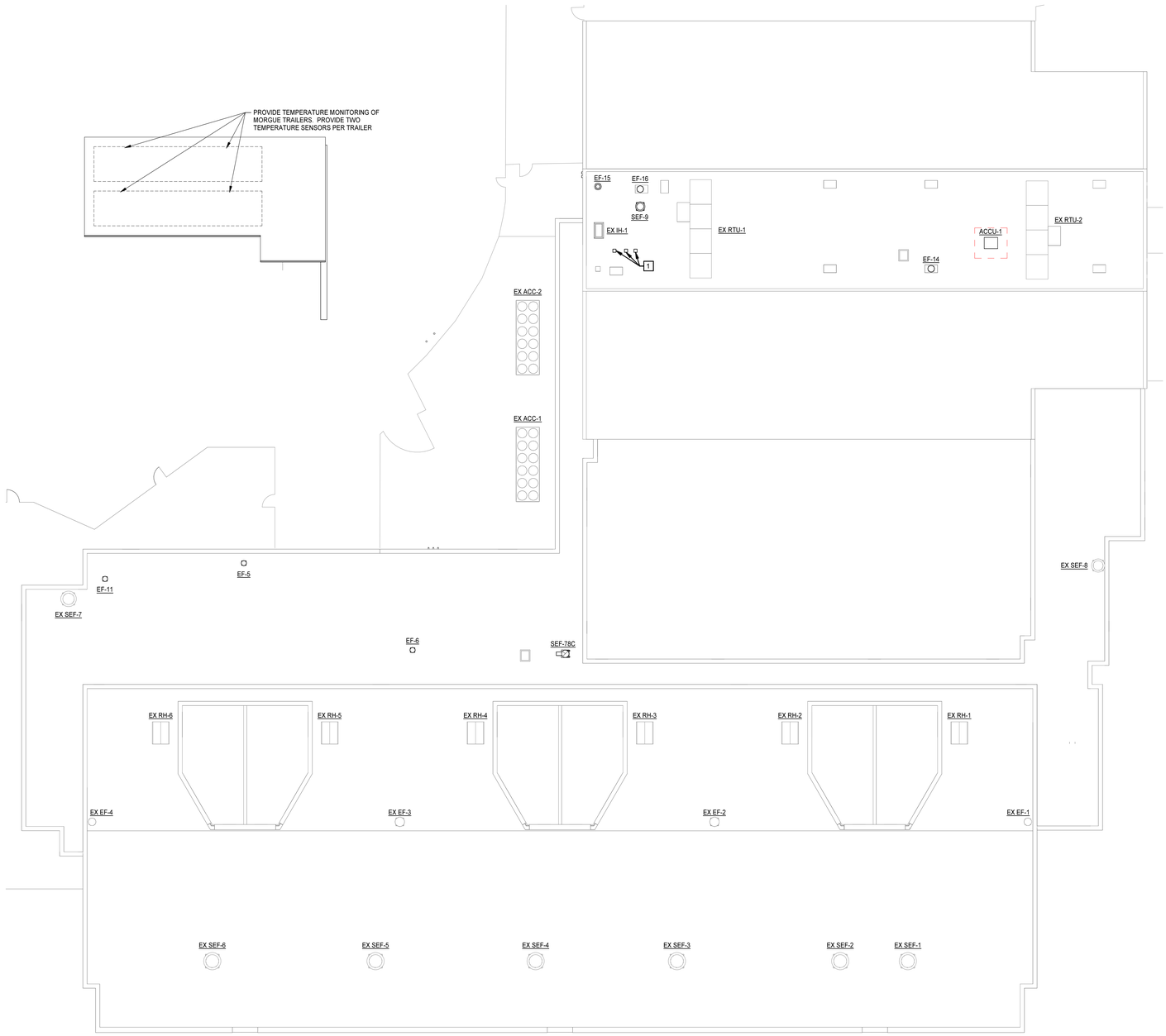
M2.3.2

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KEYNOTES

APPLIES TO THIS DRAWING

1 PROVIDE CURB CAP OVER DRYER VENT ROOF TERMINATION. REFER TO CURB CAP DETAIL.



N

ROOF PLAN

1/16" = 1'-0"

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10/15/2025

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3400 Hammond Road, Raleigh, NC 27603
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PROJECT NO: 642088
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DATE	DESCRIPTION

SC

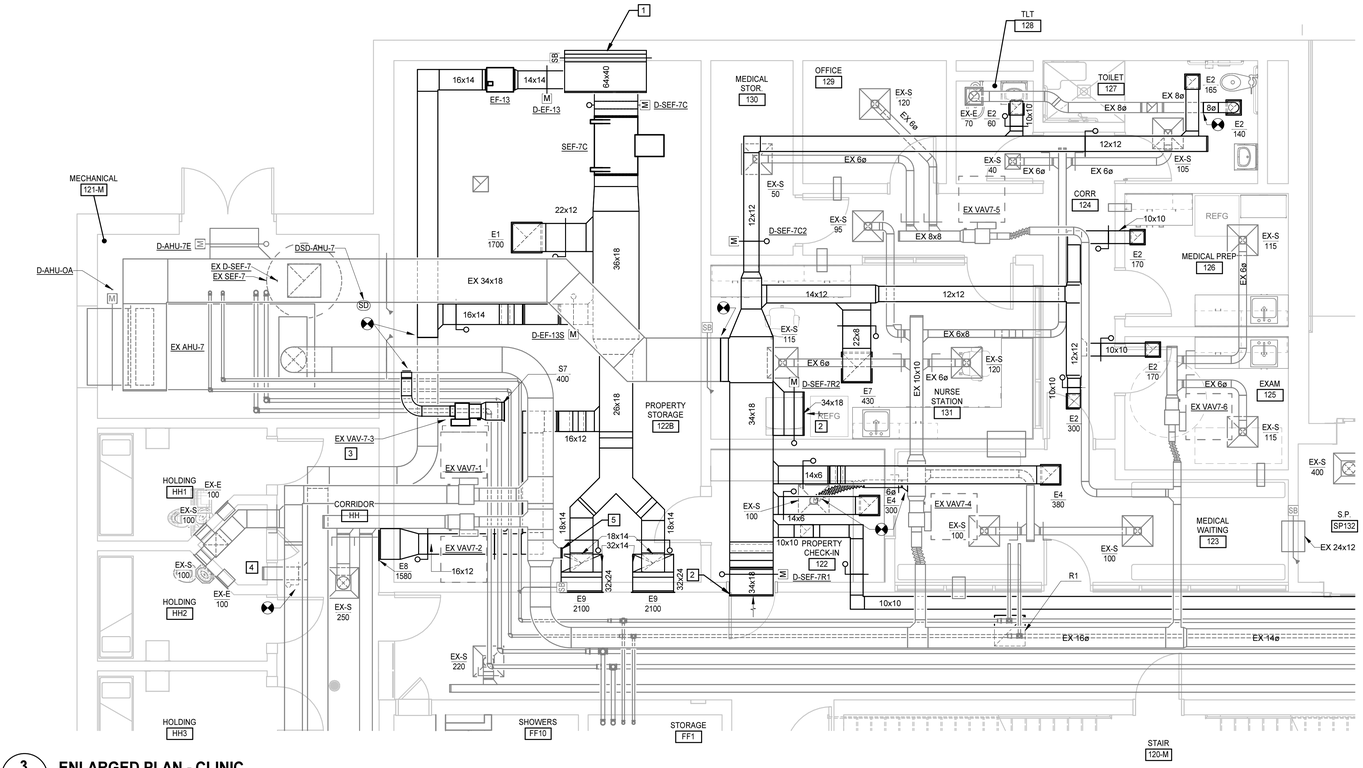
A B C

KEY PLAN

ROOF PLAN

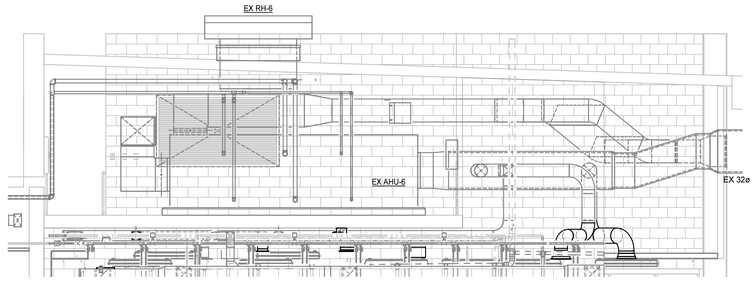
M2.4

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3 M2.1.1 M3.1 **ENLARGED PLAN - CLINIC**

1/4" = 1'-0"



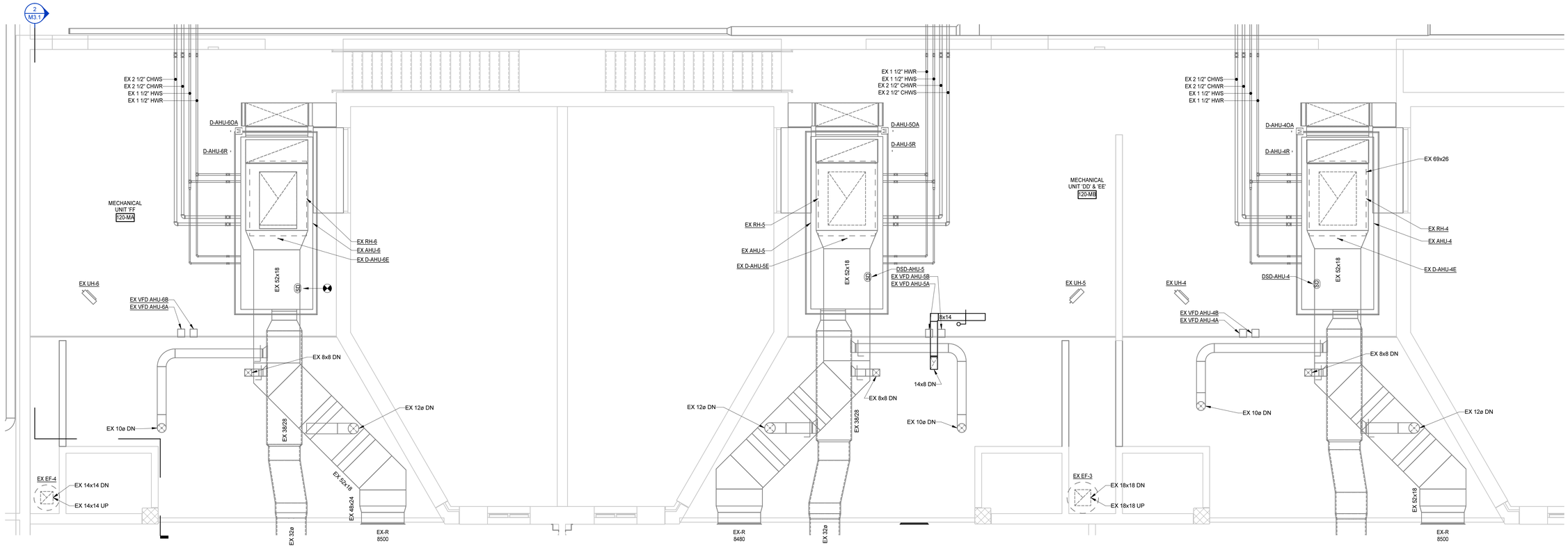
2 M3.1 **SECTION**

1/4" = 1'-0"

KEYNOTES

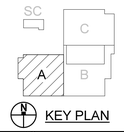
APPLIES TO THIS DRAWING

1. CONNECT DUCT TO LOUVER. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND LOCATION.
2. OPEN END DUCT. PROVIDE 1/2" x 1/2"WELDED WIRE MESH OVER DUCT OPENING.
3. RELOCATED TERMINAL UNIT. EXTEND ADJACENT HHW PIPING FROM MAINS AND MAKE DIRECT CONNECTION TO TERMINAL UNIT HEATING COIL.
4. BALANCE EXHAUST DUCT TO 200 CFM UNDER NORMAL OPERATION. BALANCE TAP TO 500 CFM DURING SMOKE CONTROL EXHAUST OPERATION. BALANCE POINTS SHALL BE SET DURING NORMAL OPERATION. SMOKE CONTROL SHALL BE BALANCED FOR THE SUM OF ALL EXHAUST AT THE BALANCING DAMPER AT D-EF-13S. PROVIDE SMOKE CONTROL RATED BALANCE DAMPER FOR EACH BRANCH.
5. CAP AND INSULATE DUCTWORK.



1 M2.1.1 M3.1 **ENLARGED PLAN - MEZZANINE E, D, & F**

1/4" = 1'-0"



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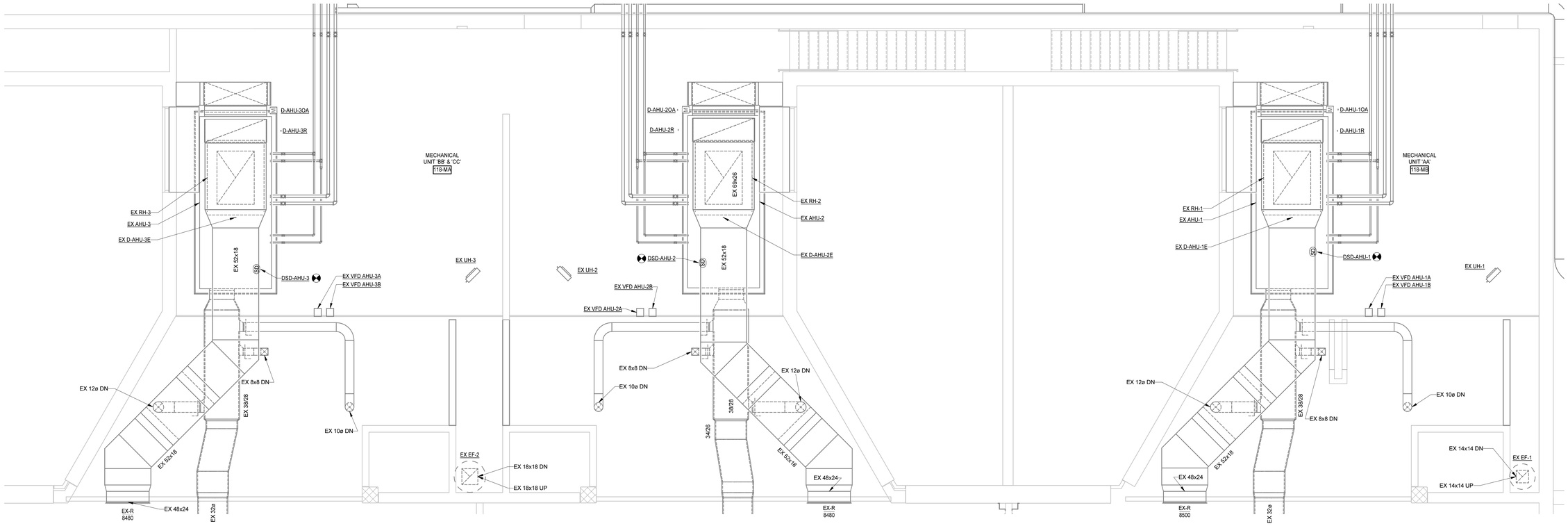
ENLARGED PLANS

M3.1

10/10/2025 3:52:53 PM

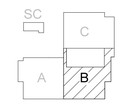
KEYNOTES

APPLIES TO THIS DRAWING



1 M2.1.1 M3.2 **ENLARGED PLAN - MEZZANINE A, B & C**

1/4" = 1'-0"



KEY PLAN

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10/15/2025

DETENTION ANNEX RENOVATION

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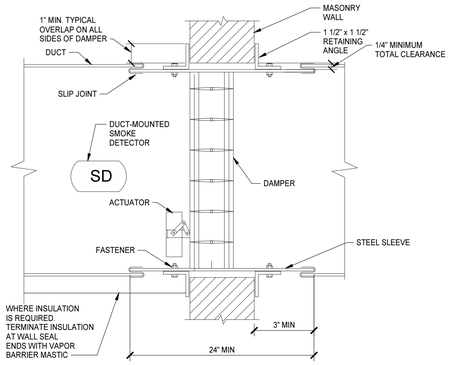
PROJECT NO: 842088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

ENLARGED PLANS

M3.2

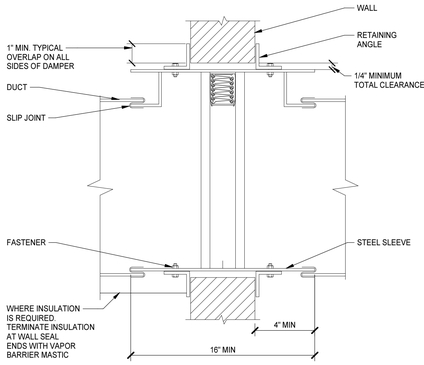
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NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL SMD-301. ALL SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

SMOKE DAMPER INSTALLATION DETAIL

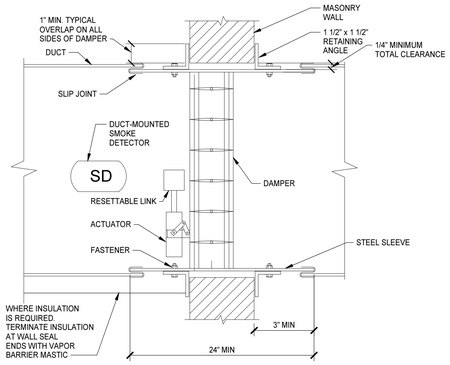
NO SCALE



NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL FD150. ALL FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

FIRE DAMPER INSTALLATION DETAIL - TYPE B (VERTICAL)

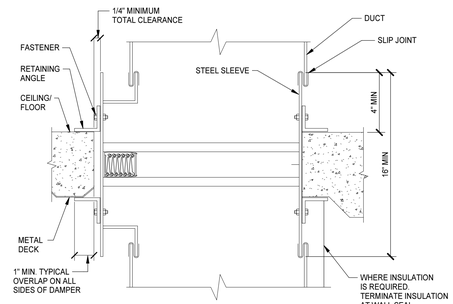
NO SCALE



NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL FSD-331. ALL COMBINATION FIRE-SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

COMBINATION FIRE-SMOKE DAMPER INSTALLATION DETAIL

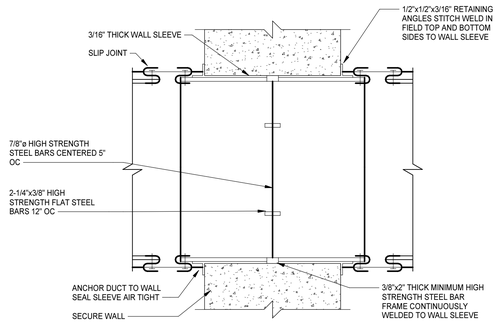
NO SCALE



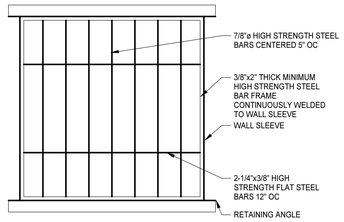
NOTE: THIS DETAIL IS BASED ON GREENHECK MODEL FD150. ALL FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MODEL USED.

FIRE DAMPER INSTALLATION DETAIL - TYPE B (HORIZONTAL)

NO SCALE



SECTION VIEW

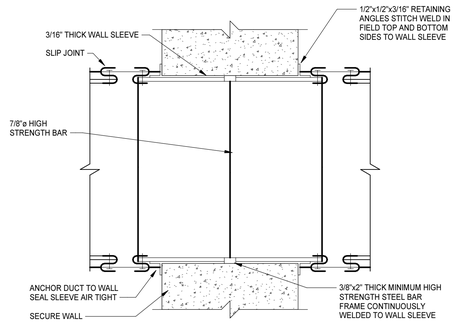


ELEVATION

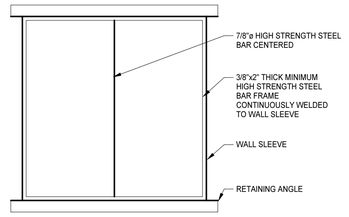
NOTE: FOR DUCTWORK WITH INSIDE CLEAR DIMENSIONS GREATER THAN 12x12

INTERIOR SECURITY WALL - DUCT MOUNTED SECURITY BAR DETAIL - LARGE

NO SCALE



SECTION VIEW



ELEVATION

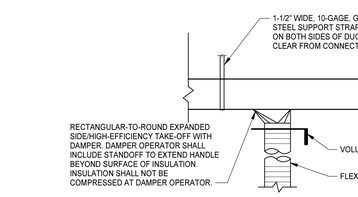
NOTE: FOR DUCTWORK WITH INSIDE CLEAR DIMENSIONS LESS THAN OR EQUAL TO 12x12

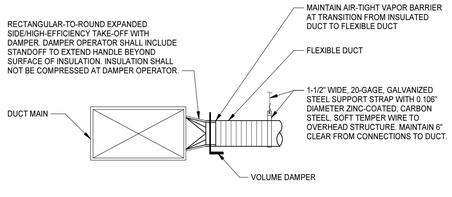
INTERIOR SECURITY WALL - DUCT MOUNTED SECURITY BAR DETAIL - SMALL

NO SCALE

EXISTING ROOF CURB CAP DETAIL

NO SCALE

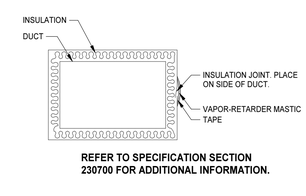




NOTES:
1. FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/LIP ON METAL DUCT) AND ANCHORED WITH NYLON MECHANICAL BANDS OR PANDUIT STRAP.
2. IN EXPOSED AREAS, PROVIDE RIGID GALVANIZED STEEL BRANCH DUCT TO DIFFUSERS IN LIEU OF FLEXIBLE DUCT UNLESS INDICATED OTHERWISE. SUPPORT IN ACCORDANCE WITH REQUIREMENTS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

BRANCH CONNECTION TO DIFFUSER DETAILS

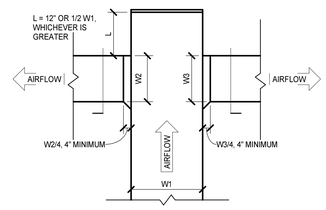
NO SCALE



REFER TO SPECIFICATION SECTION 230700 FOR ADDITIONAL INFORMATION.

DUCT INSULATION JOINT DETAIL

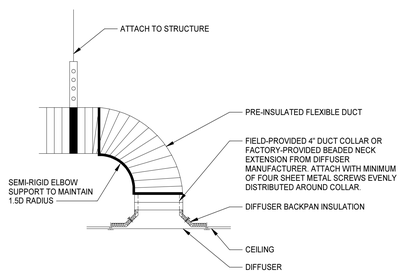
NO SCALE



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

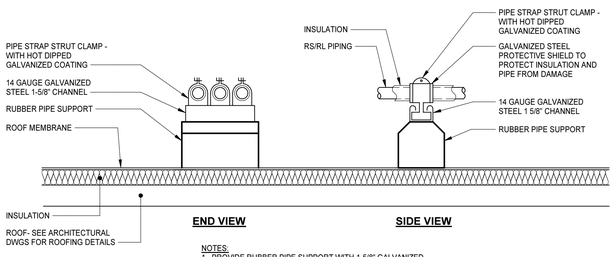
END OF DUCT MAIN DETAIL

NO SCALE



FLEXIBLE DUCT TO DIFFUSER CONNECTION DETAIL

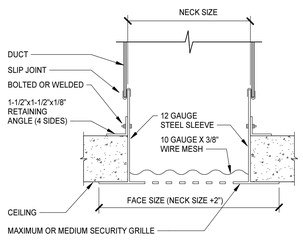
NO SCALE



NOTES:
1. PROVIDE RUBBER PIPE SUPPORT WITH 1-5/8" GALVANIZED STEEL CHANNEL EQUAL TO MIFAB C6 SERIES.
2. PROVIDE PIPE SUPPORT LENGTH AS REQUIRED FOR NUMBER OF PIPES AND LINE SETS.

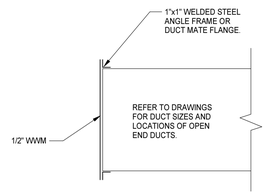
REFRIGERANT ROOF PIPE SUPPORT DETAIL

NO SCALE



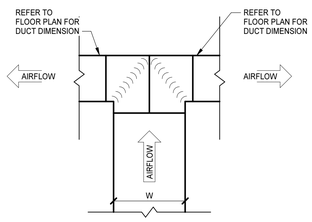
SECURITY GRILLE DETAIL

NO SCALE



OPEN END DUCT DETAIL

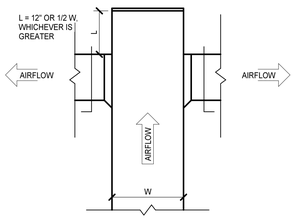
NO SCALE



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.

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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER TIMOTHY T WHITE
10/15/2025

DETENTION ANNEX RENOVATION

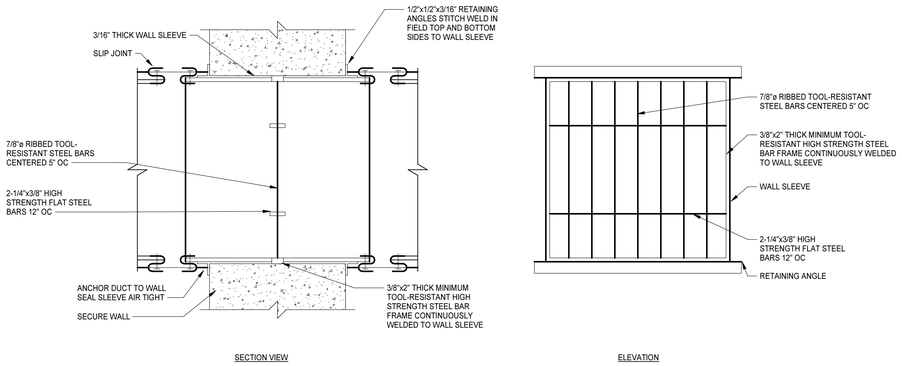
3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088	
DATE:	OCTOBER 13, 2025
REVISIONS	
DATE	DESCRIPTION

DETAILS

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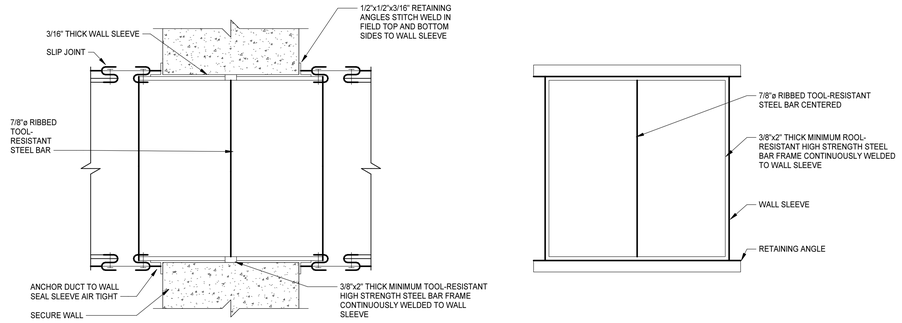


SECTION VIEW ELEVATION

NOTE: FOR DUCTWORK WITH INSIDE CLEAR DIMENSIONS GREATER THAN 12x12

PERIMETER SECURITY WALL - DUCT MOUNTED SECURITY BAR DETAIL - LARGE

NO SCALE

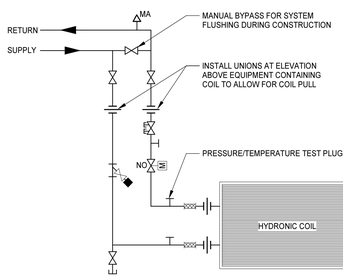


SECTION VIEW ELEVATION

NOTE: FOR DUCTWORK WITH INSIDE CLEAR DIMENSIONS LESS THAN OR EQUAL TO 12x12

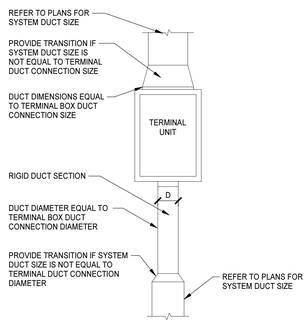
PERIMETER SECURITY WALL - DUCT MOUNTED SECURITY BAR DETAIL - SMALL

NO SCALE



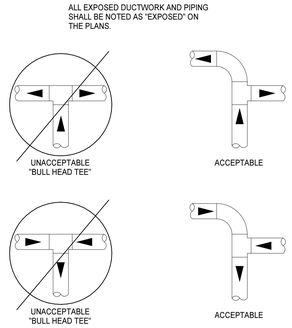
HYDRONIC COIL PIPING DIAGRAM - TERMINAL EQUIPMENT

NO SCALE



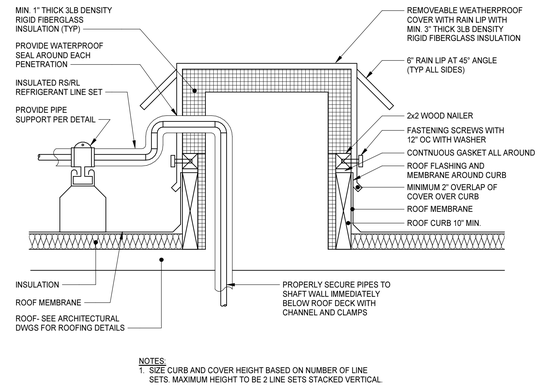
TERMINAL DUCT CONNECTION DETAIL

NO SCALE



PIPE TEE CONFIGURATION DETAIL

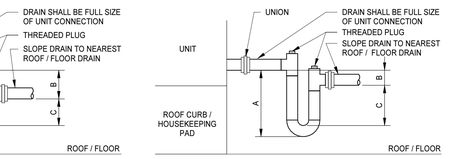
NO SCALE



NOTES:
1. SIZE CURB AND COVER HEIGHT BASED ON NUMBER OF LINE SETS. MAXIMUM HEIGHT TO BE 2 LINE SETS STACKED VERTICAL.

REFRIGERANT PIPE PENETRATION DETAIL

NO SCALE



NEGATIVE PRESSURE TRAP

A = B + C + PIPE DIAMETER WHERE:

B = 1" FOR EACH INCH OF NEGATIVE STATIC PRESSURE + 1"

C = 1/2 OF B

POSITIVE PRESSURE TRAP

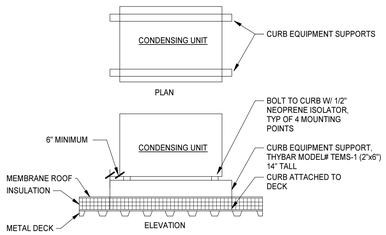
A = B + C + PIPE DIAMETER WHERE:

B = 1" MINIMUM

C = 1" + MAXIMUM UNIT POSITIVE STATIC PRESSURE AT COIL DISCHARGE

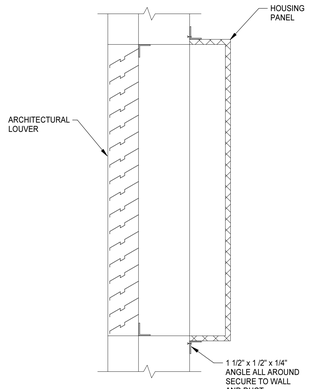
CONDENSATE DRAIN PIPING DETAIL

NO SCALE



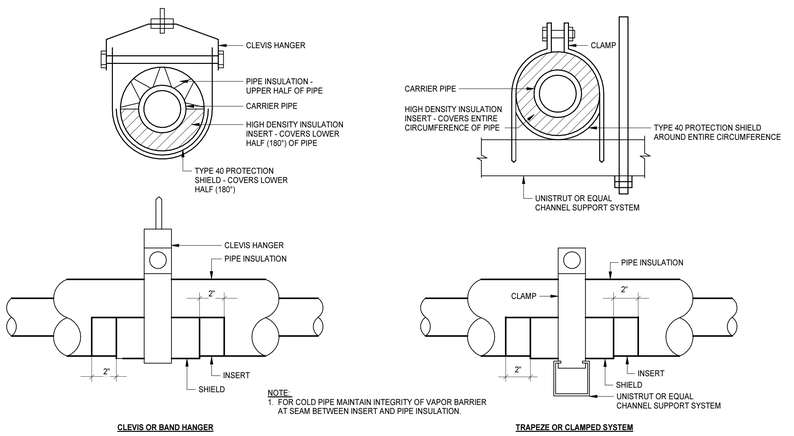
CONDENSING UNIT MOUNTING DETAIL

NO SCALE



WALL LOUVER DETAIL

NO SCALE

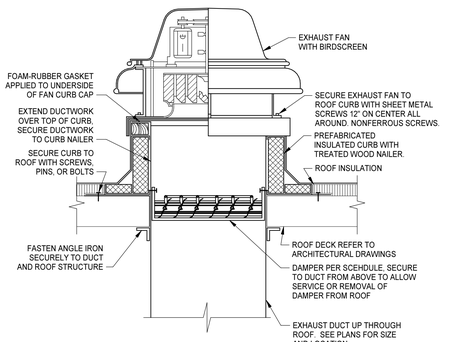


NOTE:
1. FOR COLD PIPE MAINTAIN INTEGRITY OF VAPOR BARRIER AT SEAM BETWEEN INSERT AND PIPE INSULATION.

CLEVIS OR BAND HANGER TRAPEZE OR CLAMPED SYSTEM

PIPE SUPPORT AND THERMAL SHIELD DETAILS

NO SCALE



EXHAUST FAN DETAIL

NO SCALE

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10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

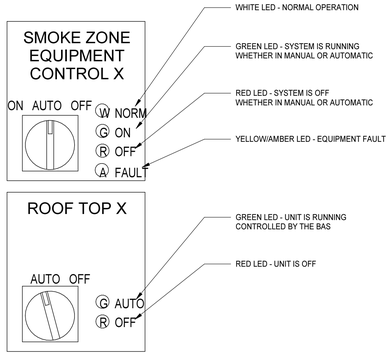
REVISIONS	
DATE	DESCRIPTION

DETAILS

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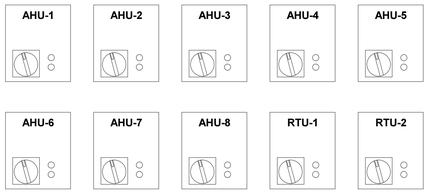
FIREFIGHTERS SMOKE CONTROL PANEL



OPERATOR INSTRUCTIONS

NORMAL OPERATION:
KEEP ALL SWITCHES ON "AUTO" POSITION.

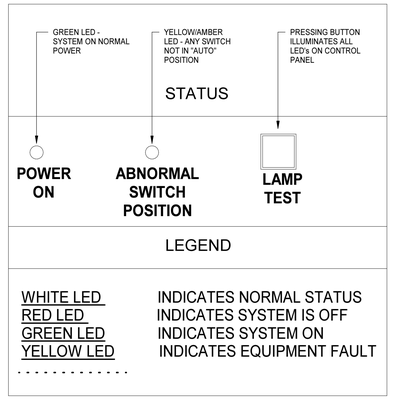
SMOKE SYSTEM TEST or MANUAL CONTROL:
TURN ANY SMOKE ZONE CONTROL TO "ON" POSITION. THIS OPENS SMOKE FAN DAMPERS, ACTIVATES SMOKE FANS AND SHUTS DOWN ASSOCIATED HVAC UNITS FOR THE ZONE. TURN CONTROL BACK TO "AUTO" TO RESET.



OPERATOR INSTRUCTIONS

NORMAL OPERATION:
KEEP ALL SWITCHES ON "AUTO" POSITION.

AIR HANDLING UNIT MANUAL CONTROL:
TURN ANY CONTROL TO "OFF" POSITION TO SHUT DOWN HVAC UNIT. TURN CONTROL BACK TO "AUTO" TO RESET.



RECESSED ENCLOSURE WELDED STEEL CONSTRUCTION WITH BAKED ENAMEL FINISH.

CONDUIT ENTRY SHALL BE CONCEALED

EXTRUDE ALUMINUM TRIM WITH ANODIZED LOCKING FULL COVER WITH FULL VIEWING WINDOW

1/8" THICK ALUMINUM BACKPLATE

PROTECTIVE NON-GLARE URETHANE COATING OVER POLYESTER FILM IMAGERY

WHITE BACKGROUND

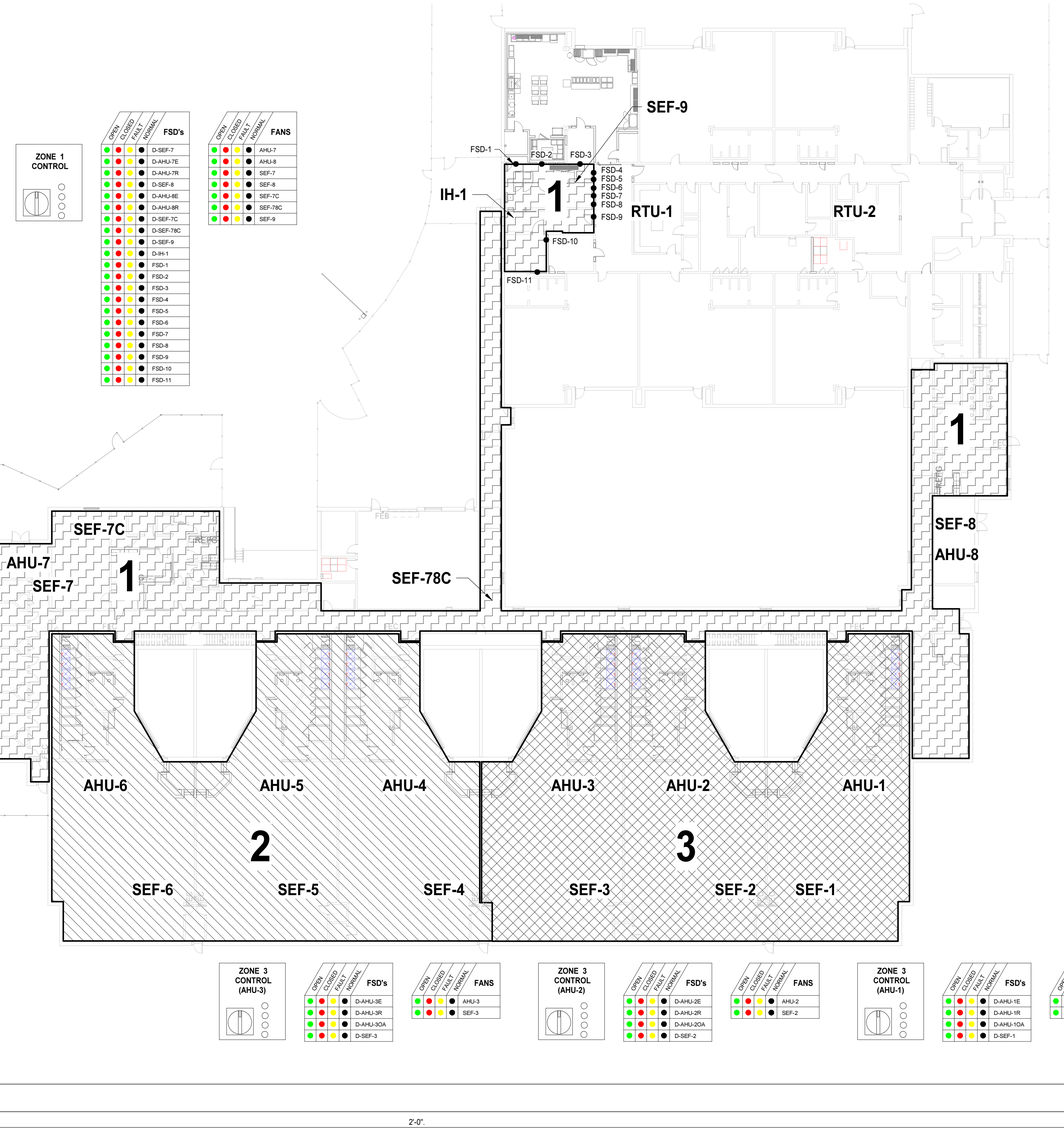
BLACK FLOOR PLAN

RED TEST AND ARROWS

CONTIGUOUS ZONES SHALL BE SHADE WITH DIFFERENT COLORS

SHOP DRAWING SUBMITTALS FOR APPROVAL SHALL BE IN FULL ACTUAL COLORS

2'-0"



2'-0"

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DATE	DESCRIPTION

FIREFIGHTER SMOKE CONTROL PANEL DETAIL

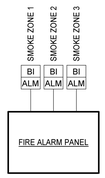
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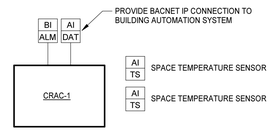
FIRE ALARM / SMOKE CONTROL MATRIX

EVENT ZONE	SMOKE DETECTOR SYSTEM ID TAG(S)	DUCT SMOKE DETECTOR SYSTEM ID TAG(S)	FLOW SWITCH SYSTEM ID TAG(S)	DAMPER		EQUIPMENT	
				FAN DAMPERS OPEN	SMOKE DAMPERS CLOSE	ON	OFF
SMOKE ZONE 1	REFER TO PLANS	DSD-AHU-7, DSD-AHU-8	N/A	D-AHU-7OA, D-AHU-8OA, D-SEF-7, D-SEF-8, D-SEF-7C,D-SEF-78C, D-EF-13S, D-SEF-9, D-IV-1	D-SEF-7R1, D-SEF-7R2, D-EF-13, D-SEF-8R1, D-SEF-8R2, D-AHU-7R, D-AHU-7E, D-AHU-8R, D-AHU-8E, FSD-1, FSD-2, FSD-3, FSD-4, FSD-5, FSD-6, FSD-7, FSD-8, FSD-9, FSD-10, & FSD-11	AHU-7, AHU-8, SEF-7, SEF-8, SEF-7C, SEF-78C, SEF-9	EF-13, RTU-1
SMOKE ZONE 2	REFER TO PLANS	DSD-AHU-4, DSD-AHU-5, DSD-AHU-6	N/A	D-AHU-4OA, D-AHU-5OA, D-AHU-6OA, D-SEF-4, D-SEF-5, D-SEF-6	D-AHU-4R, D-AHU-4E, D-AHU-5R, D-AHU-5E, D-AHU-6R, D-AHU-6E	AHU-4, AHU-5, AHU-6, SEF-4, SEF-5, SEF-6	-
SMOKE ZONE 3	REFER TO PLANS	DSD-AHU-1, DSD-AHU-2, DSD-AHU-3	N/A	D-AHU-1OA, D-AHU-2OA, D-AHU-3OA, D-SEF-1, D-SEF-2, & D-SEF-3	D-AHU-1R, D-AHU-1E, D-AHU-2R, D-AHU-2E, D-AHU-3R, D-AHU-3E	AHU-1, AHU-2, AHU-3, SEF-1, SEF-2, SEF-3	-

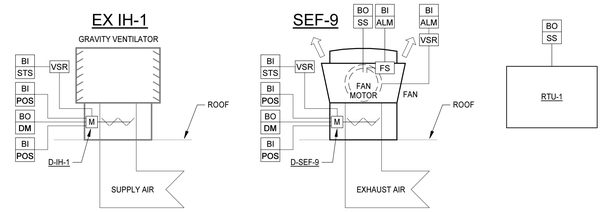
GENERAL NOTES:
A. THIS MATRIX IS ONLY FOR SMOKE CONTROL. REFER TO FIRE ALARM INPUT-OUTPUT MATRIX, BUILDING AUTOMATION CONTROL SYSTEM AND FIREFIGHTER SMOKE CONTROL PANEL DETAIL FOR COMPLETE OPERATION REQUIREMENTS.
B. DIVISION 23 SHALL PROVIDE EACH SMOKE SYSTEM FAN WITH A DIFFERENTIAL PRESSURE SWITCH. REFER TO CONTROLS DRAWINGS AND SEQUENCES FOR ADDITIONAL DETAILS.
C. PROVIDE EACH SMOKE SYSTEM FAN AND SMOKE CONTROL DAMPER WITH POWER DISCONNECTING MEANS (DIV 26). VOLTAGE SENSING RELAY (DIV 23), AND TO CONFIRM POWER AVAILABLE. LOSS OF POWER SHALL CAUSE AN ALARM CONDITION FOR DEVICE/EQUIPMENT AND ZONE AT ANY TIME.
D. DIVISION 23 SHALL PROVIDE EACH CONTROL DAMPER WITH LIMIT SWITCHES. REFER TO CONTROLS DIAGRAMS AND SEQUENCES FOR ADDITIONAL DETAILS.
E. DIVISION 23 SHALL PROVIDE MECH EQUIPMENT IN THE "OFF" COLUMN WITH CURRENT SENSING RELAY AT LAST DISCONNECT MEANS, TO CONFIRM CURRENT IS NOT FLOWING TO EQUIPMENT. PRESENCE OF CURRENT SHALL CAUSE TROUBLE CONDITION FOR EQUIPMENT AND ZONE DURING SMOKE CONTROL MODE.
F. FIREFIGHTERS MANUAL OVERRIDE PANEL SHALL CAUSE SMOKE CONTROL SYSTEM OPERATION AS INDICATED FOR A SMOKE DETECTOR IN THE AFFECTED ZONE, BUT SHALL NOT CAUSE ALARM CONDITION TO OCCUR (SUPERVISORY CONDITION SHALL OCCUR IN MANUAL OR OFF MODES).
G. MEASURE AND RECORD THE PRESSURE DIFFERENCE ACROSS EACH DOOR THAT SEPARATES THE SMOKE ZONE FROM ADJACENT ZONES. ADJUST SMOKE CONTROL FANS AS NECESSARY TO ACHIEVE THE FOLLOWING PRESSURE DIFFERENTIAL ACROSS THE BOUNDARIES: MIN PRESSURE DIFFERENTIAL: +0.05 IN. W.C. MAX PRESSURE DIFFERENTIAL: +0.08 IN. W.C.
H. DURING SMOKE CONTROL MODE, SMOKE FANS SHALL BE DELAYED 15 SECONDS SO THAT SMOKE CONTROL DAMPERS ARE SUFFICIENTLY OPEN TO PREVENT DEADHEADING OF FANS, TEST THIS OPERATION AND ADJUST DELAY AS REQUIRED.
I. MOTORIZED SMOKE CONTROL FAN DAMPERS ARE 120V, 2-POSITION.
J. FIRE ALARM PANEL SHALL PROVIDE (1) DESCRETE I/O OUTPUT, FOR EACH SMOKE ZONE, TO THE BUILDING AUTOMATION SYSTEM. ACTIVATION OF A DETECTOR OR MULTIPLE DETECTORS WITHIN EACH SMOKE ZONE SHALL INITIATE ALARM CONDITION OUTPUT TO BUILDING AUTOMATION SYSTEM.



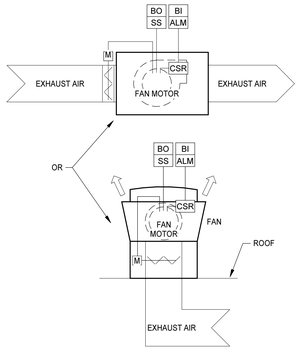
FIRE ALARM PANEL - SMOKE CONTROL
NO SCALE



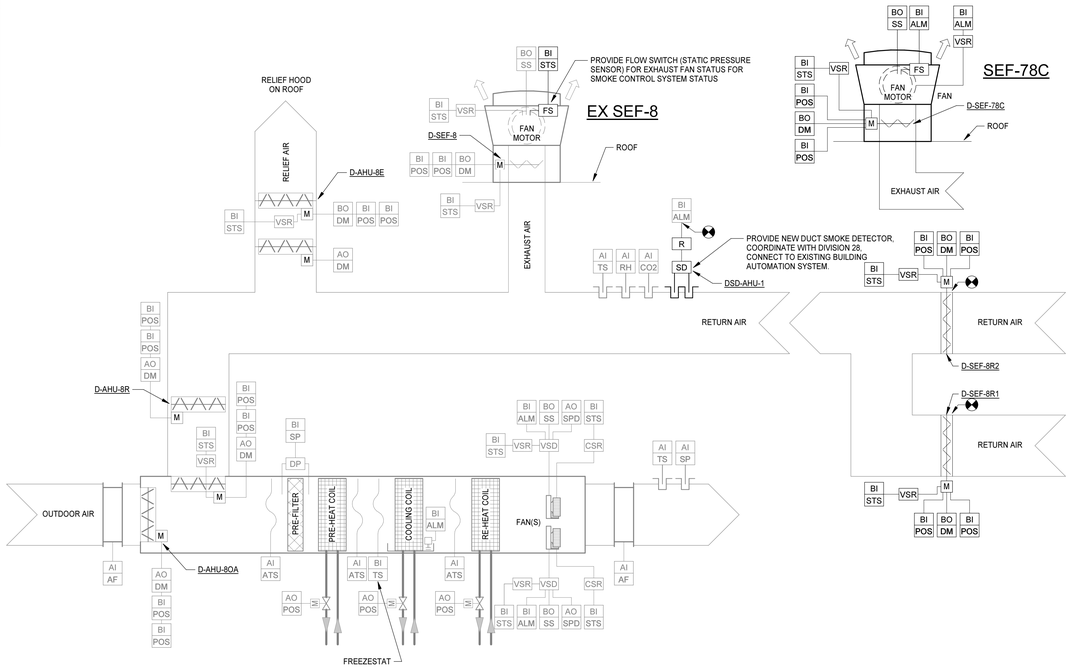
COMPUTER ROOM AIR CONDITIONING UNIT
NO SCALE



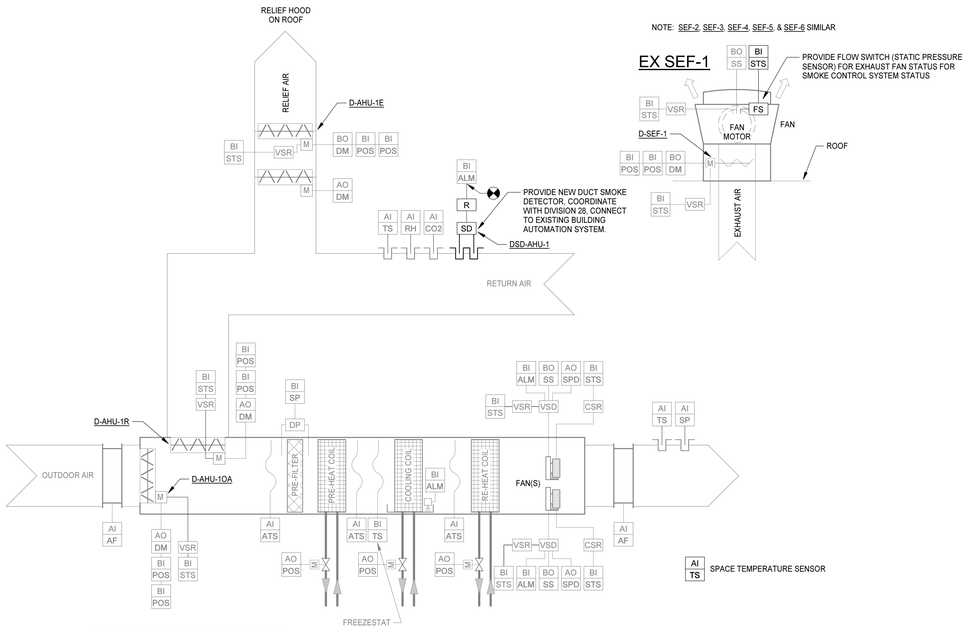
EXHAUST FAN - CONTROLLED BY BAS - SMOKE CONTROL (SEF-9, EX IH-1, RTU-1)
NO SCALE



EXHAUST FAN - CONTROLLED BY BAS SCHEDULE
NO SCALE

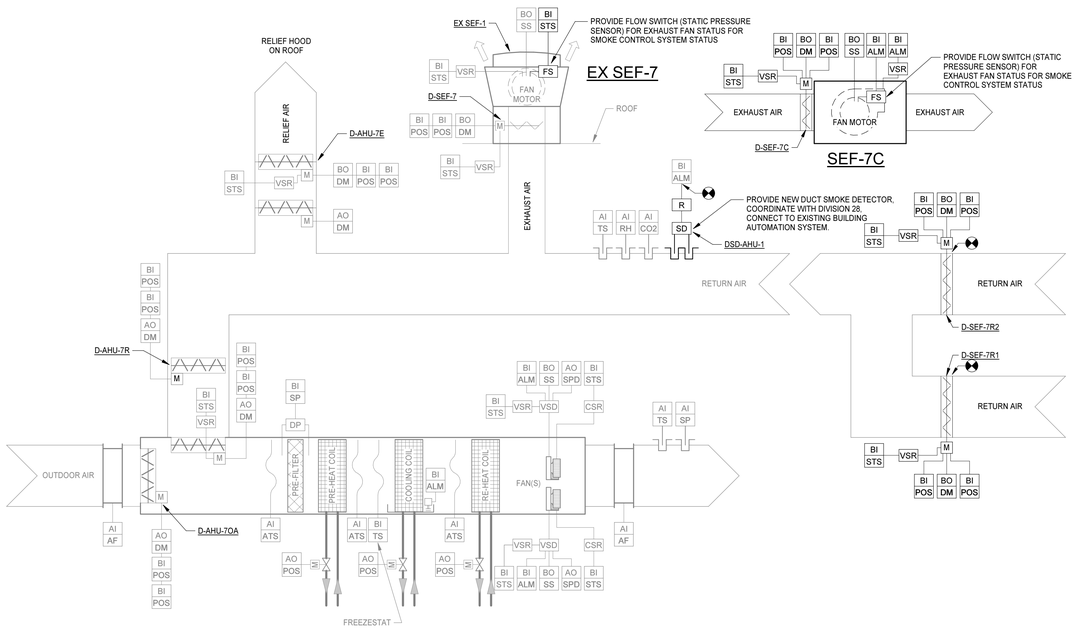


VARIABLE AIR VOLUME AIR HANLDING UNIT SERVING TERMINAL UNITS (AHU-8; SEF-8, SEF-78C)
NO SCALE



NOTE: AHU-2, AHU-3, AHU-4, AHU-5 & AHU-6 SIMILAR

SINGLE ZONE VAV AIR HANDLING UNIT SERVING DORMITORIES (AHU-1, 2, 3, 4, 5 & 6; SEF-1, 2, 3, 4, 5, & 6)
NO SCALE



VARIABLE AIR VOLUME AIR HANLDING UNIT SERVING TERMINAL UNITS (AHU-7; SEF-7, SEF-7C)
NO SCALE

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DETENTION ANNEX RENOVATION

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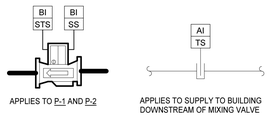
PROJECT NO: 842088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

CONTROLS

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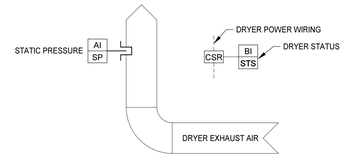
DOMESTIC WATER PUMP AND TEMPERATURE MONITORING
NO SCALE



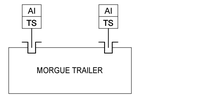
EMERGENCY GENERATOR MONITORING
NO SCALE



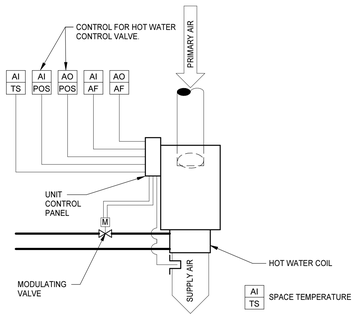
TRANSFER SWITCH MONITORING
NO SCALE



DRYER LINT MONITORING
NO SCALE



MORGUE TRAILER TEMPERATURE MONITORING
NO SCALE



TERMINAL UNIT WITH MODULATING CONTROL OF HOT WATER HEAT
NO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 043951 ENGINEER MATTHEW T WHITLEY
10/15/2025

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 842088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

CONTROLS

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GENERAL DEMOLITION NOTES

A. PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE WORK.

B. REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION. ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.

C. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THE WORK.

D. BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.

E. EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.

F. DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.

G. WHERE DEMOLITION OF TELECOMMUNICATIONS DEVICES OCCUR, REMOVE CABLING NOT INDICATED TO REMAIN BACK TO POINT OF ORIGIN.

H. DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.
	DEVICES ARE EXISTING TO REMAIN.
	WITHIN HATCHED AREAS, DISCONNECT AND REMOVE ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO LIGHTS, DEVICES, EQUIPMENT, SPEAKERS, FIRE ALARM, COMMUNICATIONS, AND CIRCUITRY.

POWER DEVICE / EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
	OVERHEAD DOOR CONTROLLER.
	DOORBELL PUSH BUTTON.
	EMERGENCY POWER OFF (E.P.O) SWITCH.
	HANDICAP DOOR OPERATOR SWITCH.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE THREE IN DETAIL:
	NON-FUSIBLE DISCONNECT SWITCH.
	FUSIBLE DISCONNECT SWITCH.
	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT.
	MAGNETIC MOTOR STARTER, OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH, OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL:
B	DOORBELL CHIME, WALL MOUNTED.
NOTE:	MOUNT THE FOLLOWING DEVICES AS NOTED:
F	FLUSH VALVE TRANSFORMER POWER CONNECTION. PROVIDE A 4"X4" RECESSED JB AND MOUNT POWER SUPPLY PROVIDED BY DIV 22. COORDINATE CONNECTION WITH DIV 22. PROVIDE A 2"X4" JB AT EACH TOILET, SINK AND WATER CLOSET AS RECOMMENDED BY THE MANUFACTURER. PROVIDE 2 #14 IN 1/2"C "DAISY CHAINED" BETWEEN UP TO EIGHT BOXES AND TERMINATING AT POWER SUPPLY.
V	ISOLATION VALVE. REFER TO ISOLATION VALVE CONTROL DETAIL ON DRAWING E4 SERIES DRAWING.
EC	EQUIPMENT POWER CONNECTION.
J	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
J	JUNCTION BOX, WALL MOUNTED. MOUNTING HEIGHT AS INDICATED ON PLANS.
S_M	MOTOR POWER CONNECTION.
	MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.
T	LINE VOLTAGE THERMOSTAT. DIVISION 23 FURNISH, DIVISION 26 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
M	POWER FOR DIV 23 MOTORIZED DAMPER. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
	NON-METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNTING HEIGHT INDICATED ON PLANS.
	PANELBOARD OR SWITCHBOARD, PROVIDE 6 INCH CONCRETE HOUSEKEEPING PAD FOR ALL GROUND MOUNTED EQUIPMENT UNLESS NOTED OTHERWISE. DENOTED BY PANELBOARD/SWITCHBOARD TAG PER ONE-LINE DIAGRAM.
	TRANSFORMER, PROVIDE 4 INCH CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE. DENOTED BY TRANSFORMER TAG PER ONE-LINE DIAGRAM.
	UTILITY METER. MOUNT PER UTILITY STANDARDS, UNO.
XXX	FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.
XX	[FOR MULTI-FAMILY HOUSING PROJECTS ONLY] RESIDENTIAL UNIT METERCENTER IDENTIFICATION TAG. IDENTIFIES THE METERCENTER THAT PROVIDES POWER TO THE RESIDENTIAL UNIT LOADCENTER.
	[FOR SENIOR LIVING PROJECTS ONLY] RESIDENTIAL UNIT PANELBOARD DESIGNATION TAG. IDENTIFIES THE PANELBOARD & CIRCUIT THAT PROVIDES POWER TO THE RESIDENTIAL UNIT LOADCENTER.
	BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.

ONE LINE DIAGRAM LEGEND

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

RECEPTACLE DEVICE LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE ONE IN DETAIL:
	APPLIANCE RECEPTACLE. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
	DUPLEX RECEPTACLE, NEMA 5-20R.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
	SINGLE RECEPTACLE, NEMA 5-20R.
	SWITCHED DUPLEX RECEPTACLE WITH SPLIT YOKE, THE BOTTOM OUTLET IS SWITCHED & THE TOP OUTLET IS UNSWITCHED, NEMA 5-15R.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
	DUPLEX RECEPTACLE, NEMA 5-20R.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
	SINGLE RECEPTACLE, NEMA 5-20R.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL:
	DUPLEX RECEPTACLE, NEMA 5-20R.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R.
NOTE:	MOUNT THE FOLLOWING DEVICES AS NOTED:
	DUPLEX RECEPTACLE, NEMA 5-20R, CEILING MOUNT.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, CEILING MOUNT.
	DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	CORD REEL OUTLET, CEILING MOUNT.

SYMBOL VARIATIONS	DESCRIPTION
	RECEPTACLE CONNECTED TO EMERGENCY POWER, PROVIDE RED DEVICE. TYPE OF RECEPTACLE MAY VARY.
	GFCI RECEPTACLE CONNECTED TO EMERGENCY POWER, PROVIDE RED DEVICE. TYPE OF RECEPTACLE MAY VARY.
	PROTECTIVE COVER FOR RECEPTACLE. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE FOR ALL EXTERIOR LOCATIONS. TYPE OF RECEPTACLE MAY VARY.
	PLUG LOAD CONTROLLED RECEPTACLE. TYPE OF RECEPTACLE MAY VARY.
	RECEPTACLE WITH USB PORTS. TYPE OF RECEPTACLE MAY VARY.

POWER / COMMUNICATION DEVICE LEGEND

SYMBOL	DESCRIPTION
F	POWER/COMMUNICATIONS RECESSED FLOOR BOX. WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
F	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. WHERE INDICATED, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX WITH COVER SUITABLE FOR SYSTEM FURNITURE CONNECTION. REFER TO DETAIL ON E4 SERIES DRAWINGS. COORDINATE W/ SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
SF	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. REFER TO DETAIL ON E4 SERIES DRAWINGS. COORDINATE W/FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	POWER/COMMUNICATIONS POWER POLE, FURNISHED WITH (NIC) SYSTEM FURNITURE. PROVIDE POWER J-BOX MOUNTED TO STRUCTURE ABOVE CEILING, AND FLEXIBLE CONDUIT CONNECTION TO J-BOX MOUNTED TO TOP OF POLE AND CONNECTED TO PIGTAIL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE, COORDINATE WITH SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
VP	POWER AND COMMUNICATIONS FOR CEILING MOUNTED VIDEO PROJECTOR. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R AND CEILING MOUNTED TELECOMMUNICATION OULTET. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.
P T	RECEPTACLE MOUNTED BESIDE TELECOMMUNICATION OUTLET. PROVIDE RECEPTACLE BASED ON "P" IN LEFT SYMBOL BOX. "P" INSIDE LEFT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM RECEPTACLE DEVICE LEGEND. PROVIDE TELECOMMUNICATION OULTET BASED ON "T" IN RIGHT SYMBOL BOX. "T" INSIDE RIGHT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM COMMUNICATIONS LEGEND.
P TV	RECEPTACLE AND TELECOMMUNICATION OUTLET MOUNTED INSIDE WALL MOUNTED FLAT DISPLAY BOX. PROVIDE RECEPTACLE BASED ON "P" IN LEFT SYMBOL BOX. "P" INSIDE LEFT SYMBOL BOX SHALL BE ONE OF THE SYMBOLS FROM RECEPTACLE DEVICE LEGEND. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.

SYMBOL VARIATIONS	DESCRIPTION
	POWER/COMMUNICATIONS RECESSED FLOOR BOX OR POKE THRU CONNECTED TO EMERGENCY POWER, PROVIDE RED DEVICES.
P T	PROTECTIVE COVER FOR RECEPTACLE AND TELECOMMUNICATION OUTLET. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE FOR ALL EXTERIOR LOCATIONS. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY.
P T	PLUG LOAD CONTROLLED RECEPTACLE MOUNTED BESIDE TELECOMMUNICATION OUTLET. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY.
P T	RECEPTACLE WITH USB PORTS MOUNTED BESIDE TELECOMMUNICATION OUTLET. TYPE OF RECEPTACLE AND TELECOMMUNICATION OUTLET MAY VARY.

LIGHTING LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS.
S	LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS.
S_S	LIGHT SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING, RATED 120/277 VOLTS, 20-AMPS.
	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
D3	INDICATES 3-WAY DIMMER LIGHT SWITCH
D4	INDICATES 4-WAY DIMMER LIGHT SWITCH
K	INDICATES KEY OPERATED LIGHT SWITCH
K3	INDICATES KEY OPERATED 3-WAY LIGHT SWITCH
K4	INDICATES KEY OPERATED 4-WAY LIGHT SWITCH
LV	INDICATES LOW VOLTAGE LIGHT SWITCH
OS	INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR
OD	INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
P	INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON
T	INDICATES TIMER LIGHT SWITCH
VS	INDICATES SWITCH WITH INTEGRAL VACANCY SENSOR
VD	INDICATES DIMMER SWITCH WITH INTEGRAL VACANCY SENSOR

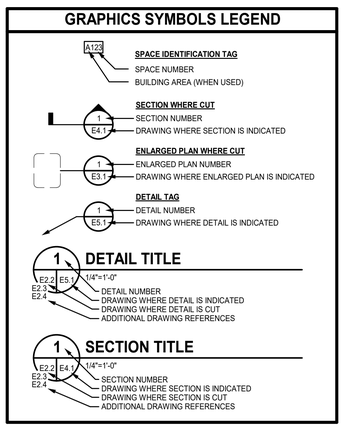
LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION

	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
	DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
	OMNI-DIRECTIONAL LIGHTING CONTROL VACANCY DETECTOR, CEILING MOUNT.
	DIRECTIONAL LIGHTING CONTROL VACANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
PS	PHOTOCELL SENSOR FOR LIGHTING CONTROL. WALL MOUNT AT +10-0"AFF. AIM NORTH.
DS	DAYLIGHT HARVESTING SENSOR FOR LIGHTING CONTROL, CEILING MOUNT.
GR	GENERATOR RELAY DEVICE.
	LIGHT FIXTURE, CEILING MOUNT.
	LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	LIGHT FIXTURE ON EMERGENCY POWER, WALL MOUNT, HEIGHT AS INDICATED.
	EMERGENCY EGRESS LIGHTING 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.
	TRACK LIGHTS.
	LIGHT FIXTURE, POLE MOUNT.
	SPORTS LIGHTING POLE.
	CEILING FAN WITH LIGHTING FIXTURE.

TELECOMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE ONE IN DETAIL:
X	TELECOMMUNICATIONS OUTLET. REFER TO DETAIL ON E4 SERIES DRAWINGS.
TGB	TELECOMMUNICATIONS GROUND BUS BAR.
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE TWO IN DETAIL:
X	TELECOMMUNICATIONS OUTLET. REFER TO DETAIL ON E4 SERIES DRAWINGS.
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL' FOR DEVICE MOUNTING REQUIREMENTS. FOLLOWING DEVICES ARE DENOTED AS KEYNOTE FOUR IN DETAIL:
	TELECOMMUNICATIONS OUTLET. REFER TO DETAIL ON E4 SERIES DRAWINGS.
NOTE:	MOUNT DEVICES AS INDICATED
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	2 POST TELECOMMUNICATIONS EQUIPMENT RACK.
	4 POST TELECOMMUNICATIONS EQUIPMENT RACK.

GRAPHICS SYMBOLS LEGEND



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, INCLUDING ON ARCHITECTURAL ELEVATIONS. 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, UNO. 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.

N. REFER TO STRUCTURAL DRAWINGS FOR ALL CONDUIT REQUIREMENTS BEING PLACED IN CMU WALLS.

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
VIF	VERIFY IN FIELD
W	WATTS
W/	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER MARTIN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO:	642088
DATE:	OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES

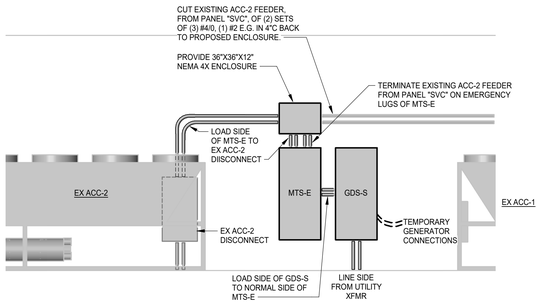
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KEYNOTES

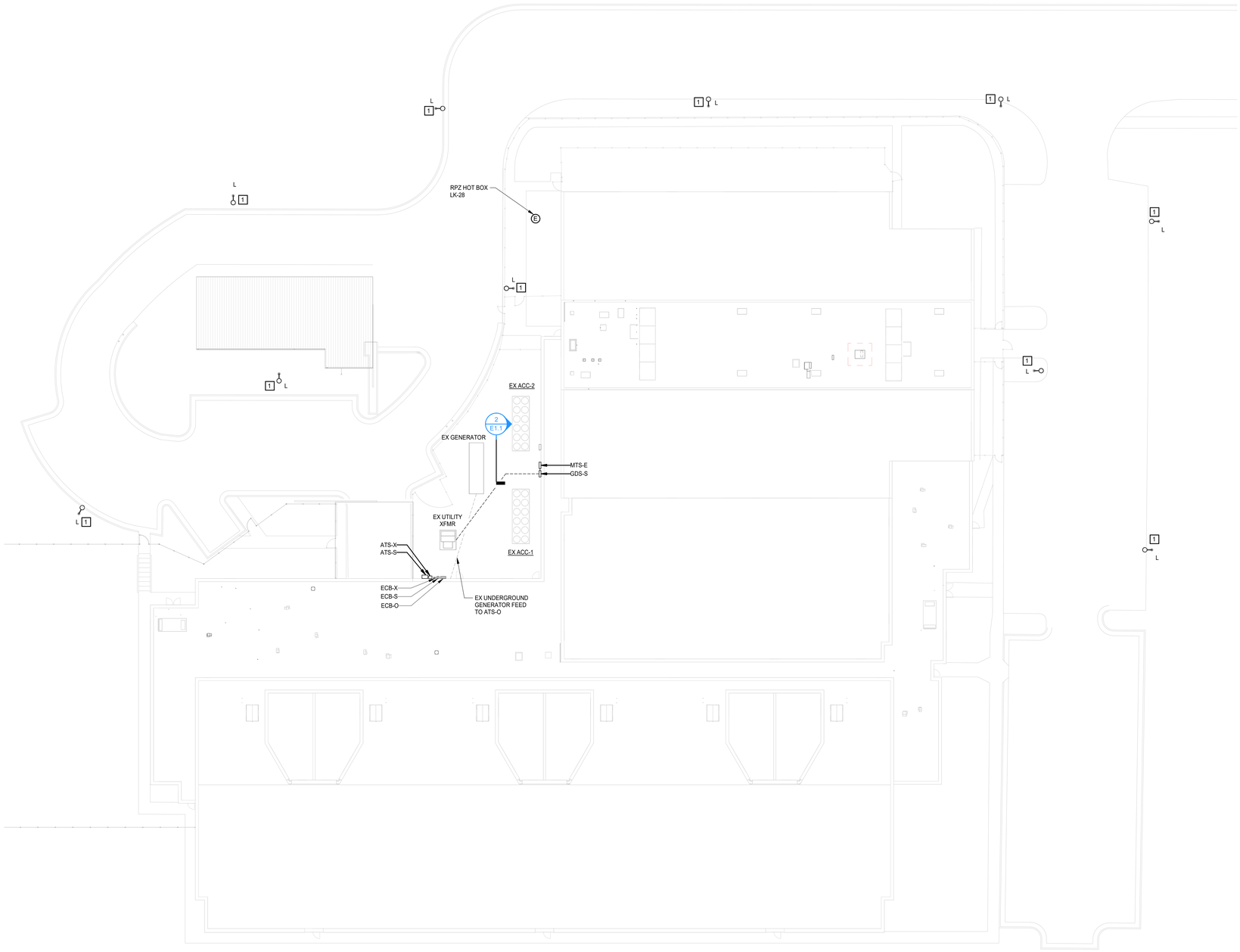
APPLIES TO THIS DRAWING

1 ALTERNATE NO. 3: REMOVE EXISTING LIGHT FIXTURE AND POLE, MAINTAIN BRANCH CIRCUIT AND BASE. PROVIDE NEW LIGHT FIXTURE AND POLE AS INDICATED, CONNECT TO EXISTING BRANCH CIRCUIT.



2 E1.1 E1.1 **MTS LAYOUT ELEVATION**

1/4" = 1'-0"



N

1 E1.1 **ELECTRICAL SITE PLAN**

1" = 20'-0"

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PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER MARTIN C. MELTZ

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

ELECTRICAL SITE PLAN

E1.1

10/13/2025 8:36:34 PM

KEYNOTES

APPLIES TO THIS DRAWING

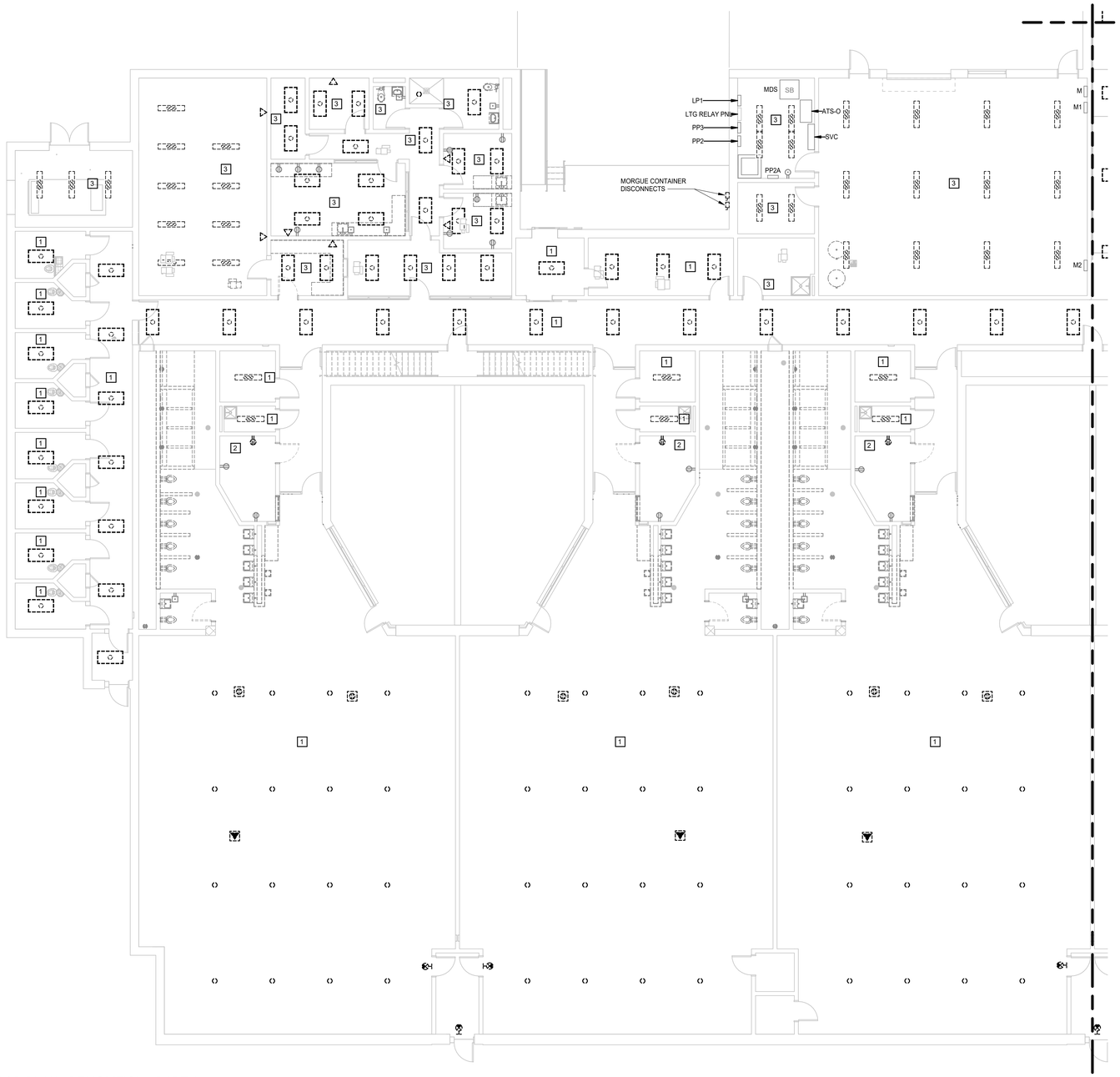
1 DISCONNECT & REMOVE ALL LIGHT FIXTURES IN THIS ROOM, MAINTAIN SWITCHING & BRANCH CIRCUIT FOR REUSE.

2 DISCONNECT & REMOVE RECEPTACLE, MAINTAIN BRANCH CIRCUIT FOR REUSE.

3 DISCONNECT & REMOVE ALL LIGHT FIXTURES AND SWITCHING IN THIS ROOM. MAINTAIN BRANCH CIRCUIT HOMERUN FOR REUSE.

GENERAL NOTES

A. DISCONNECT & REMOVE ALL EXISTING DATA CABLING THROUGHOUT THE BUILDING BACK TO SOURCE IN ITS ENTIRETY.



FIRST FLOOR PLAN - DEMOLITION - PART A

1/8" = 1'-0"

MOSELEYARCHITECTS

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER BRIAN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

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DATE	DESCRIPTION

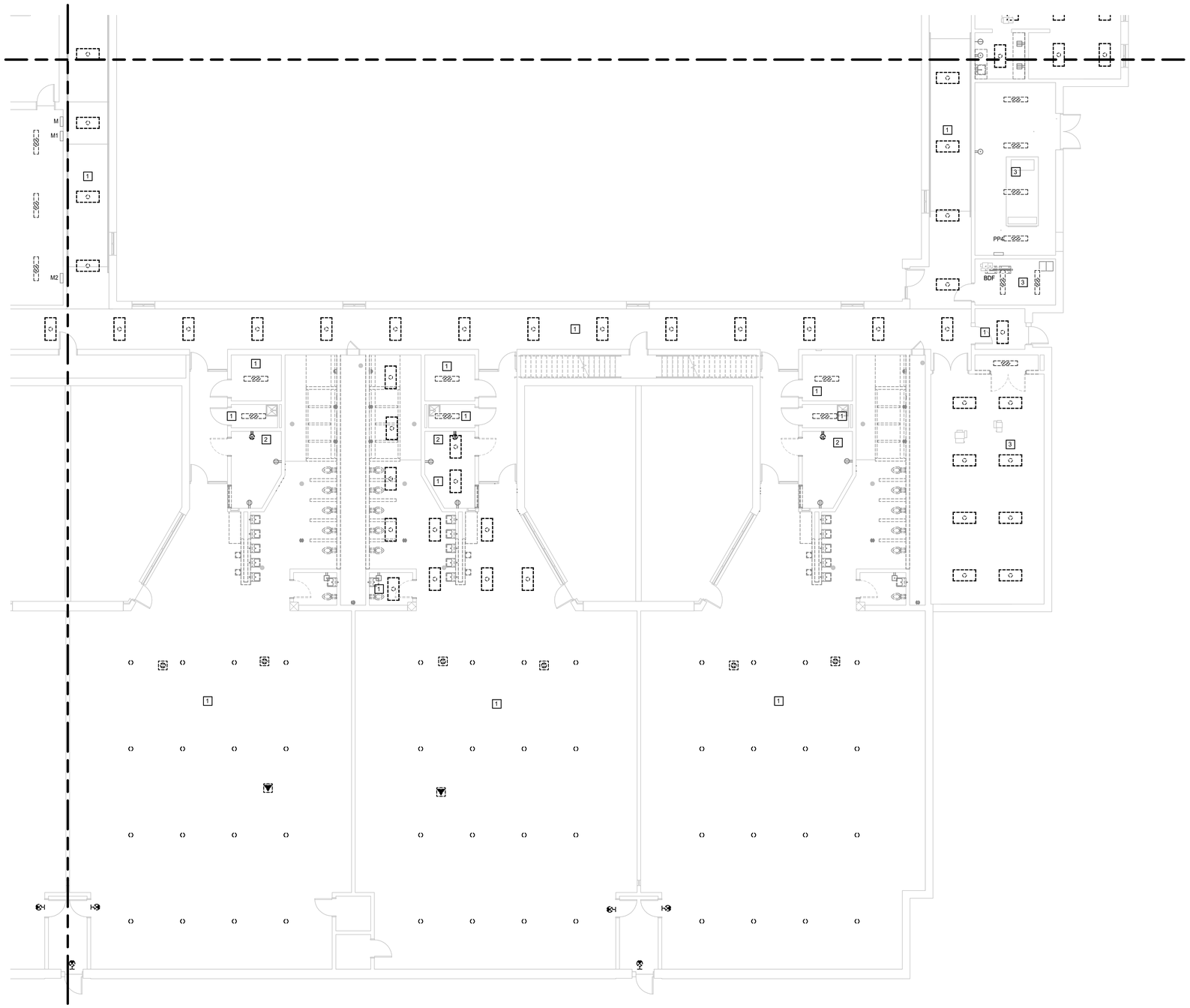
SC C A B

KEY PLAN

FIRST FLOOR PLAN - DEMOLITION - PART A

E1.1.1

10/13/2025 8:36:38 PM



FIRST FLOOR PLAN - DEMOLITION - PART B

1/8" = 1'-0"

KEYNOTES

APPLIES TO THIS DRAWING

1 DISCONNECT & REMOVE ALL LIGHT FIXTURES IN THIS ROOM, MAINTAIN SWITCHING & BRANCH CIRCUIT FOR REUSE.

2 DISCONNECT & REMOVE RECEPTACLE, MAINTAIN BRANCH CIRCUIT FOR REUSE.

3 DISCONNECT & REMOVE ALL LIGHT FIXTURES AND SWITCHING IN THIS ROOM, MAINTAIN BRANCH CIRCUIT HOMERUN FOR REUSE.

GENERAL NOTES

A. DISCONNECT & REMOVE ALL EXISTING DATA CABLING THROUGHOUT THE BUILDING BACK TO SOURCE IN ITS ENTIRETY.

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER MARTIN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

SC C A B

KEY PLAN

FIRST FLOOR PLAN - DEMOLITION - PART B

E1.1.2

10/13/2025 8:36:41 PM

KEYNOTES

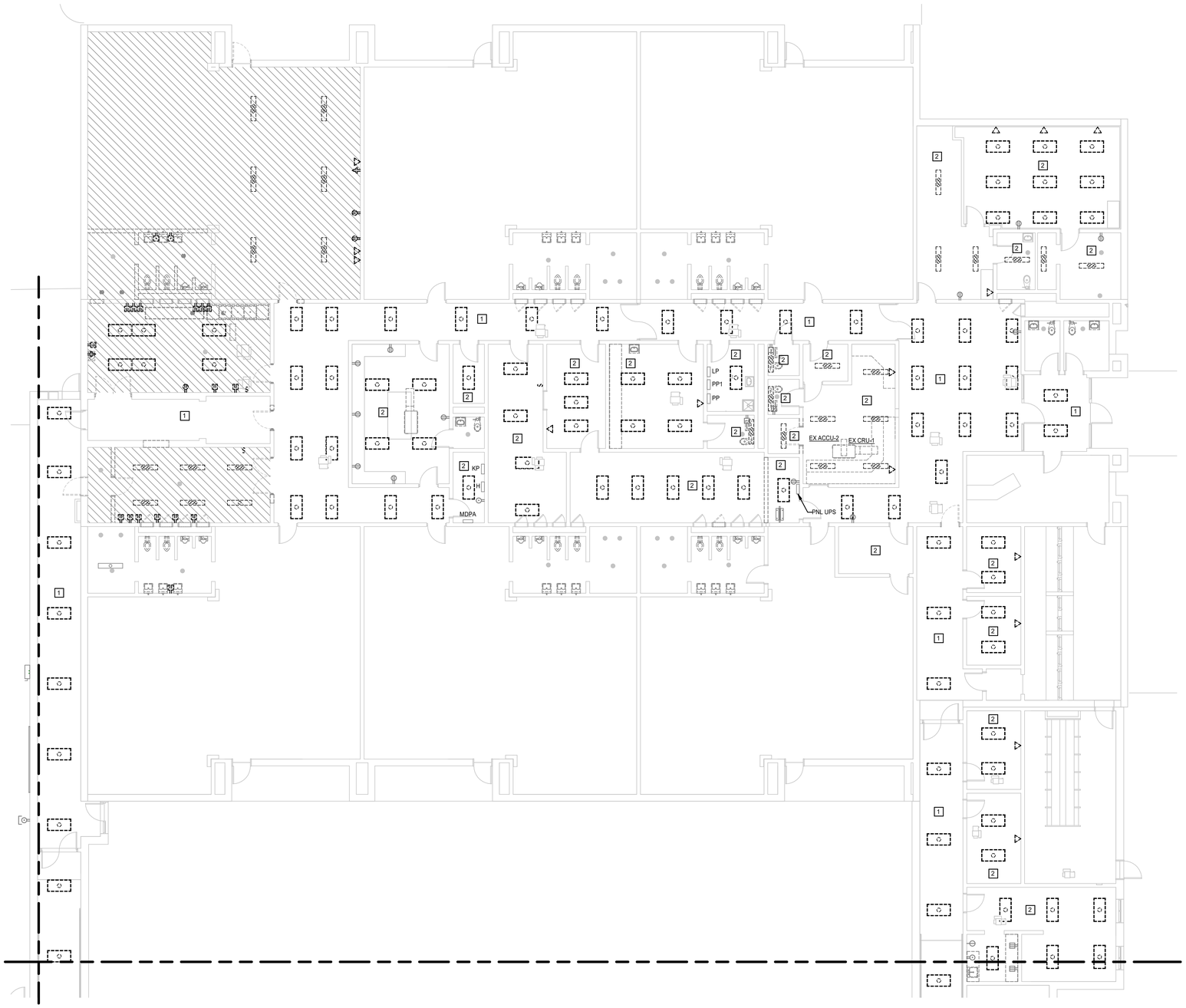
APPLIES TO THIS DRAWING

1 DISCONNECT & REMOVE ALL LIGHT FIXTURES IN THIS ROOM, MAINTAIN SWITCHING & BRANCH CIRCUIT FOR REUSE.

2 DISCONNECT & REMOVE ALL LIGHT FIXTURES AND SWITCHING IN THIS ROOM, MAINTAIN BRANCH CIRCUIT HOMERUN FOR REUSE.

GENERAL NOTES

A. DISCONNECT & REMOVE ALL EXISTING DATA CABLING THROUGHOUT THE BUILDING BACK TO SOURCE IN ITS ENTIRETY.



FIRST FLOOR PLAN - DEMOLITION - PART C

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER BRIAN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
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PROJECT NO: 842088
DATE: OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

SC C A B

KEY PLAN

FIRST FLOOR PLAN - DEMOLITION - PART C

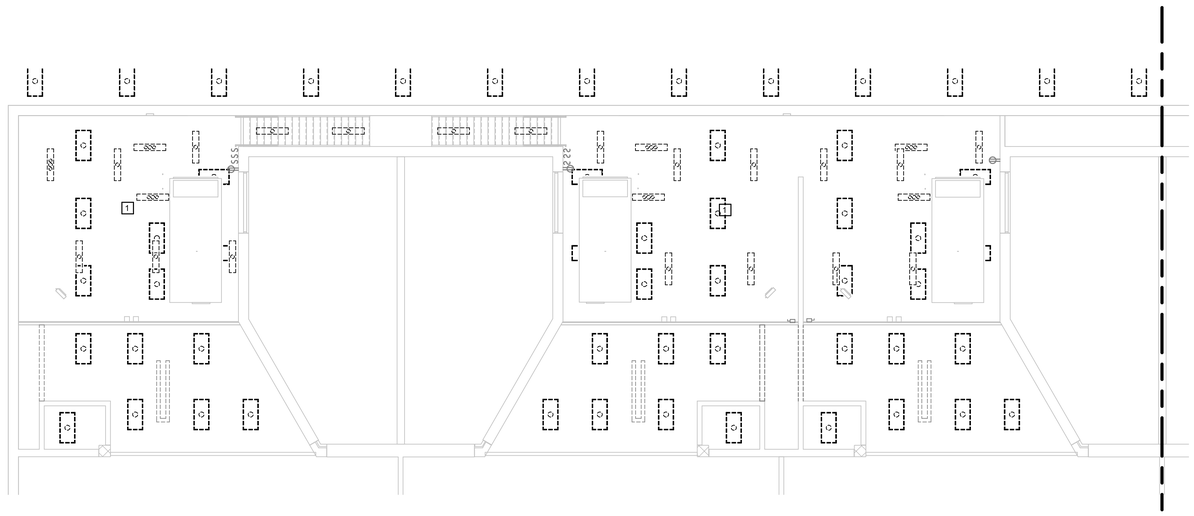
E1.1.3

10/13/2025 8:36:46 PM

KEYNOTES

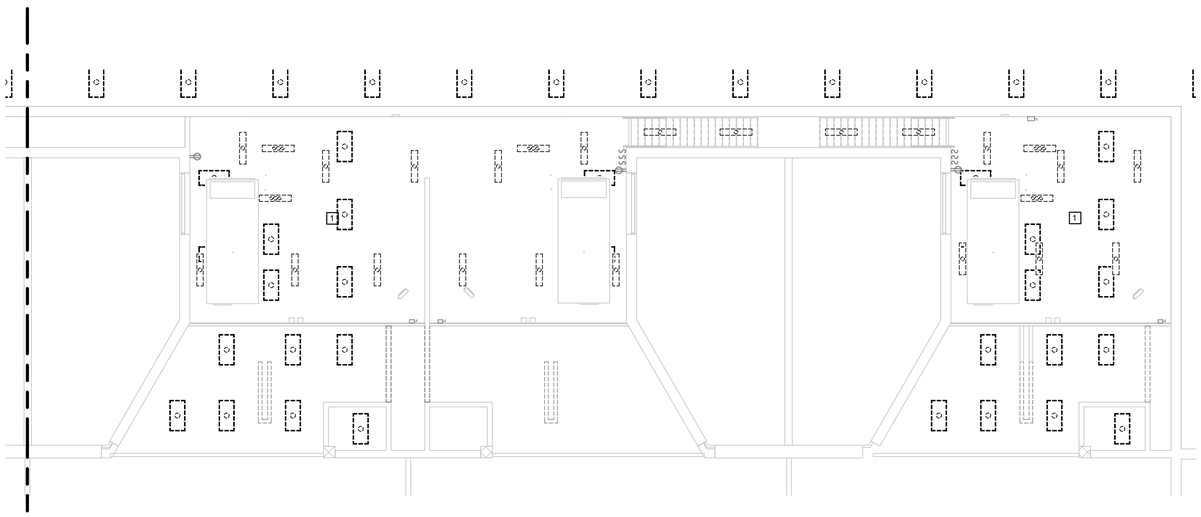
APPLIES TO THIS DRAWING

1	DISCONNECT & REMOVE ALL LIGHT FIXTURES AND SWITCHING IN THIS ROOM, MAINTAIN BRANCH CIRCUIT HOMERUN FOR REUSE.



MEZZANINE PLAN - DEMOLITION - PART A

1/8" = 1'-0"



MEZZANINE PLAN - DEMOLITION - PART B

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER MARTIN C. MELTS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

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DATE	DESCRIPTION

SC C A B

KEY PLAN

MEZZANINE FLOOR PLAN - DEMOLITION

E1.2.1

10/13/2025 8:36:48 PM

KEYNOTES

APPLIES TO THIS DRAWING

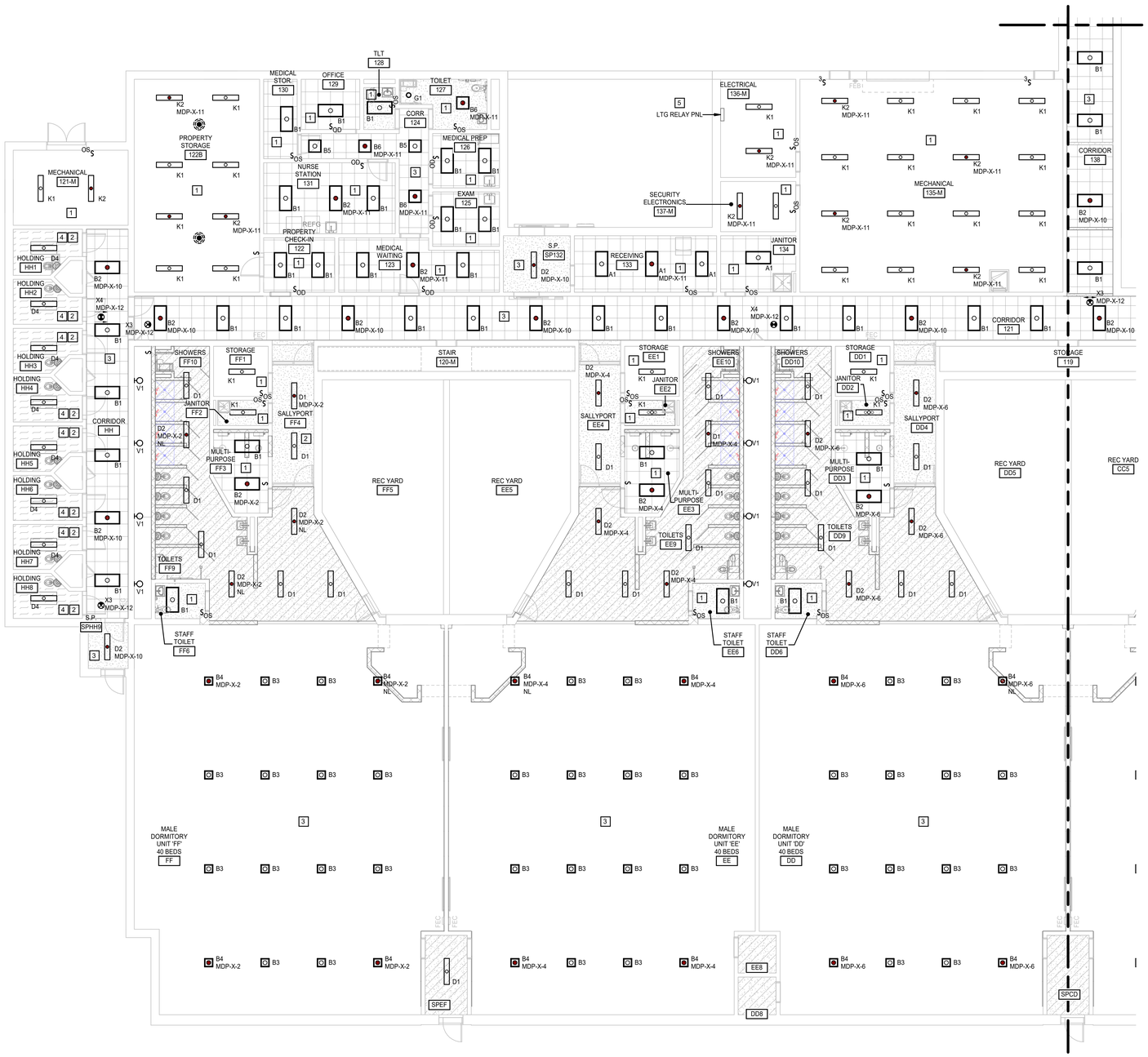
1. U.N.O. PROVIDE FIXTURES & SWITCHING AS INDICATED & RECONNECT TO EXISTING BRANCH CIRCUIT HOMERUN. EXTEND EXISTING CIRCUITING AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.
2. U.N.O. PROVIDE FIXTURES AS INDICATED & RECONNECT TO EXISTING SWITCHING AND BRANCH CIRCUIT. EXTEND EXISTING CIRCUITING AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.
3. U.N.O. PROVIDE FIXTURES AS INDICATED & RECONNECT TO EXISTING UNSWITCHED BRANCH CIRCUIT. EXTEND EXISTING CIRCUITING AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.
4. CONNECT EXISTING RELAY CONTROLLED NIGHT LIGHT CIRCUIT CONDUCTOR TO NIGHT LIGHT CONNECTION POINT ON FIXTURE AND RELAY CONTROLLED NORMAL CONDUCTOR TO MAIN FIXTURE CONNECTION POINT.
5. UPDATE RELAY SCHEDULE WITH FINAL ROOM NUMBERS OF SPACES CONNECT TO EACH RELAY.

GENERAL NOTES

A. WITHIN DAYROOMS, FIXTURES INDICATED AS EMERGENCY AND NOT NIGHT LIGHT (NL) SHALL BE RELAY CONTROLLED VIA THE EXISTING RELAY CIRCUIT(S). PROVIDE UL924 DEVICE FOR EACH DAYROOM, LOCATED IN MEZZANINE ADJACENT TO DAYROOM. EXTEND EXISTING CIRCUITRY AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

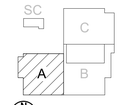
B. FIXTURES INDICATED AS NIGHT LIGHT (NL) SHALL BE ON 24/7, NOT SWITCHED. MODIFY EXISTING CIRCUITRY AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

C. FIXTURES INDICATED AS EMERGENCY, NOT WITHIN DAYROOMS, SHALL BE PROVIDED WITH A UL924 DEVICE (MINIMUM ONE DEVICE PER SWITCHING ZONE). IN ADDITION TO UNSWITCHED EMERGENCY CIRCUIT INDICATED, PROVIDE SWITCHED NORMAL CIRCUIT TO UL924 DEVICE FROM ADJACENT NORMAL FIXTURES IN EACH SPACE.



FIRST FLOOR PLAN - LIGHTING - PART A

1/8" = 1'-0"



KEY PLAN

MOSELEY ARCHITECTS
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MOSELEYARCHITECTS.COM

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 842088
DATE: OCTOBER 13, 2025

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DATE	DESCRIPTION

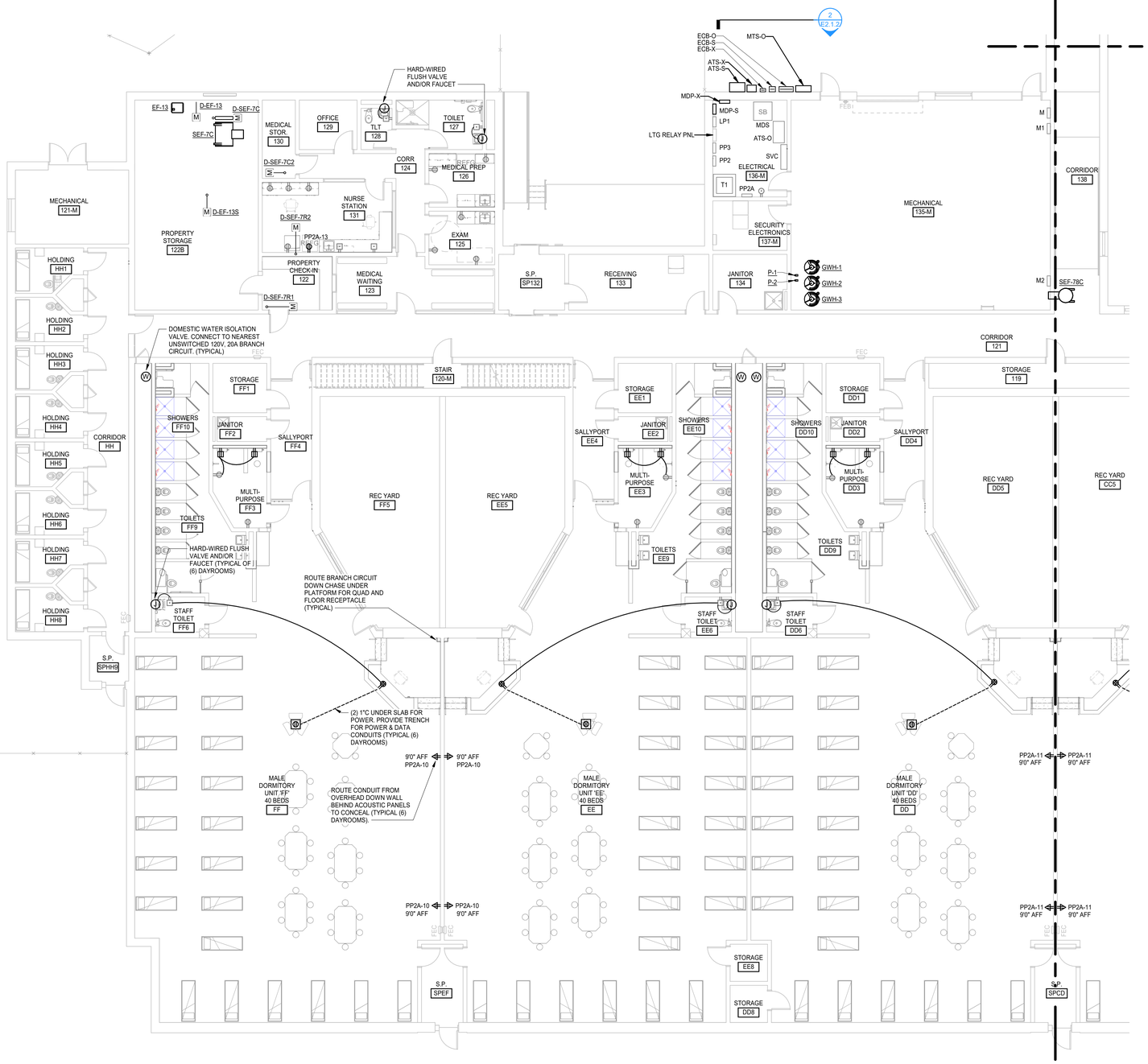
FIRST FLOOR PLAN - LIGHTING - PART A

E2.1.1

10/13/2025 8:36:58 PM

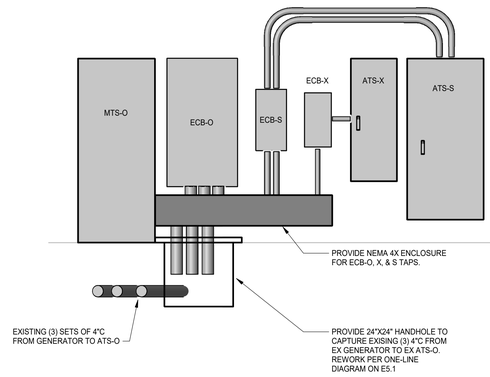
DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.1.2

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
D-EF-13	120 V	1	0.0 kVA	PP2A	8	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
D-EF-13S	120 V	1	0.0 kVA	PP2A	8	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
D-SEF-7C	120 V	1	0.0 kVA	PP2A	8	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
D-SEF-7C2	120 V	1	0.0 kVA	PP2A	8	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
D-SEF-7R1	120 V	1	0.0 kVA	PP2A	8	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
D-SEF-7R2	120 V	1	0.0 kVA	PP2A	8	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
EF-13	120 V	1	0.3 kVA	PP2A	7	(2) #12, (1) #12 E.G. IN 3/4"C	30A/NF DISCONNECT	
GWH-1	120 V	1	0.1 kVA	PP2A	14	(2) #12, (1) #12 E.G. IN 3/4"C	30A/NF DISCONNECT	
GWH-2	120 V	1	0.1 kVA	PP2A	15	(2) #12, (1) #12 E.G. IN 3/4"C	30A/NF DISCONNECT	
GWH-3	120 V	1	0.1 kVA	PP2A	16	(2) #12, (1) #12 E.G. IN 3/4"C	30A/NF DISCONNECT	
P-1	120 V	1	0.1 kVA	PP2A	17	(2) #12, (1) #12 E.G. IN 3/4"C	30A/NF DISCONNECT	
P-2	120 V	1	0.1 kVA	PP2A	18	(2) #12, (1) #12 E.G. IN 3/4"C	30A/NF DISCONNECT	
SEF-7C	480 V	3	11.6 kVA	MDP-S	7,9,11	(3) #10, (1) #10 E.G. IN 3/4"C	30A COMBO STARTER DISC. W/ 20A FUSES	



FIRST FLOOR PLAN - POWER - PART A

1/8" = 1'-0"



2 ECB & ATS LAYOUT ELEVATION

E2.1.2 E2.1.2 — 1/2" = 1'-0"

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

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DATE	DESCRIPTION

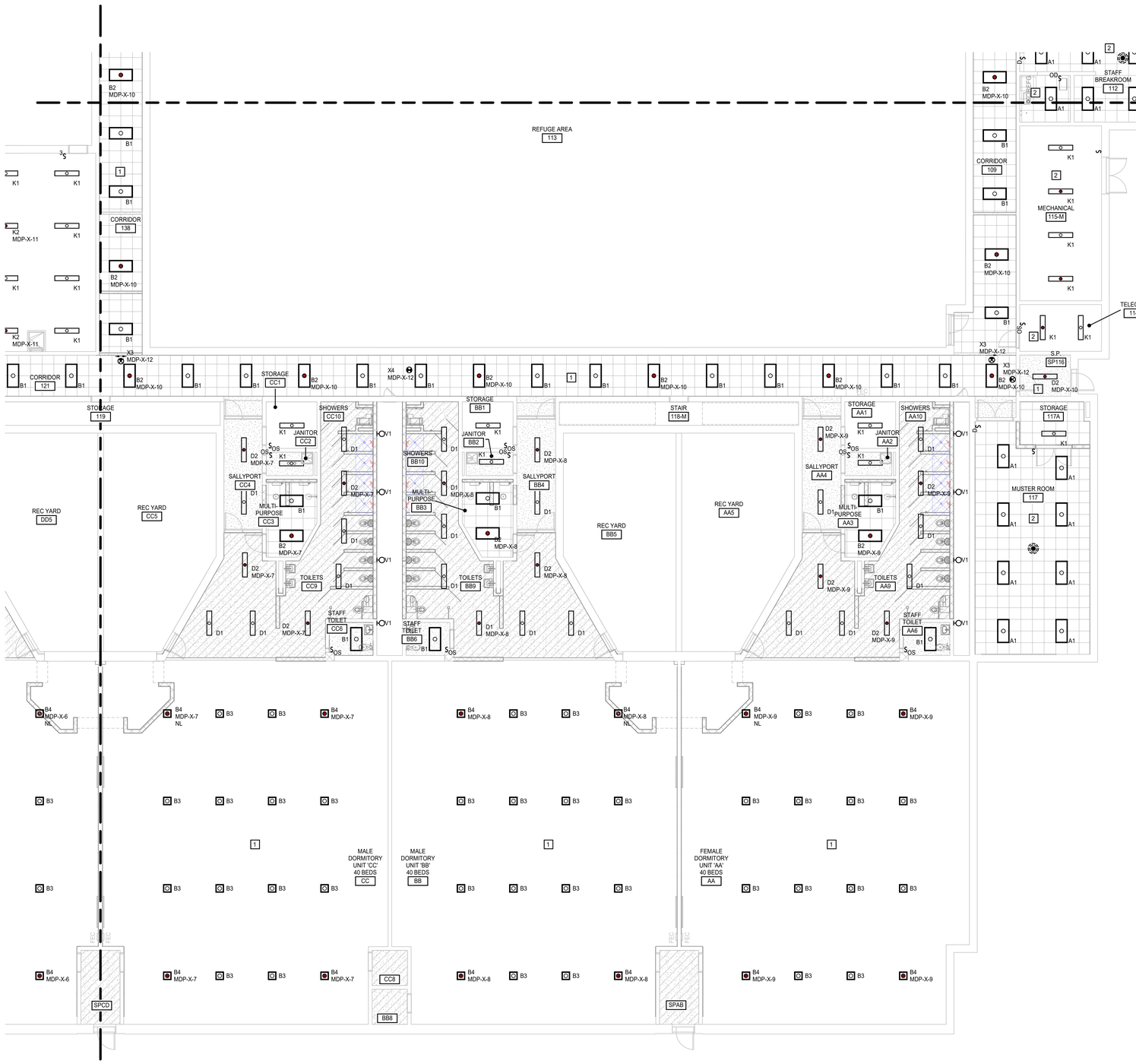
SC C A B

KEY PLAN

FIRST FLOOR PLAN - POWER - PART A

E2.1.2

10/13/2025 8:37:07 PM



FIRST FLOOR PLAN - LIGHTING - PART B

1/8" = 1'-0"

KEYNOTES

APPLIES TO THIS DRAWING

1 U.N.O. PROVIDE FIXTURES AS INDICATED & RECONNECT TO EXISTING UNSWITCHED BRANCH CIRCUIT. EXTEND EXISTING CIRCUITING AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

2 U.N.O. PROVIDE FIXTURES & SWITCHING AS INDICATED & RECONNECT TO EXISTING BRANCH CIRCUIT HOMERUN. EXTEND EXISTING CIRCUITING AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

GENERAL NOTES

A. WITHIN DAYROOMS, FIXTURES INDICATED AS EMERGENCY AND NOT NIGHT LIGHT (NL) SHALL BE RELAY CONTROLLED VIA THE EXISTING RELAY CIRCUIT(S). PROVIDE UL924 DEVICE FOR EACH DAYROOM, LOCATED IN MEZZANINE ADJACENT TO DAYROOM. EXTEND EXISTING CIRCUITRY AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

B. FIXTURES INDICATED AS NIGHT LIGHT (NL) SHALL BE ON 24/7, NOT SWITCHED. MODIFY EXISTING CIRCUITRY AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

C. FIXTURES INDICATED AS EMERGENCY, NOT WITHIN DAYROOMS, SHALL BE PROVIDED WITH A UL924 DEVICE (MINIMUM ONE DEVICE PER SWITCHING ZONE). IN ADDITION TO UNSWITCHED EMERGENCY CIRCUIT INDICATED, PROVIDE SWITCHED NORMAL CIRCUIT TO UL924 DEVICE FROM ADJACENT NORMAL FIXTURES IN EACH SPACE.

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER BRYAN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
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PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - LIGHTING - PART B

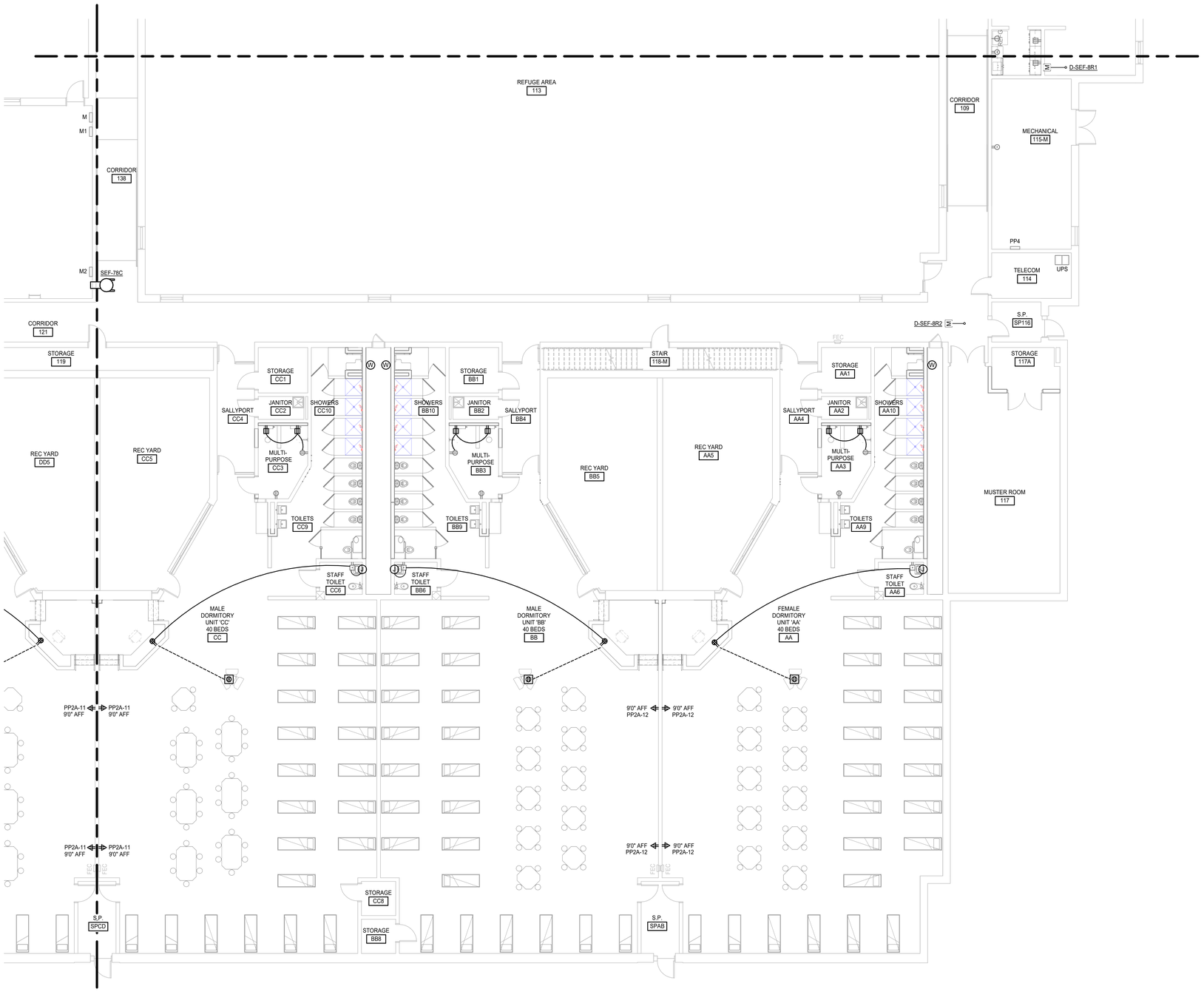
E2.1.3

KEY PLAN

10/13/2025 8:37:15 PM

DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.1.4

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
D-SEF-8R1	120 V	1	0.0 kVA	PP4	41	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	PROVIDE 20A/1P BREAKER IN EX PANELBOARD
D-SEF-8R2	120 V	1	0.0 kVA	PP4	41	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	PROVIDE 20A/1P BREAKER IN EX PANELBOARD
SEF-78C	480 V	3	9.1 kVA	MDP-S	13,15,17	(3) #12, (1) #12 E.G. IN 3/4"C	30A COMBO STARTER DISC. W/ 20A FUSES	



FIRST FLOOR PLAN - POWER - PART B

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER MARTIN C. MELTZ

DETENTION ANNEX RENOVATION

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PROJECT NO: 642088
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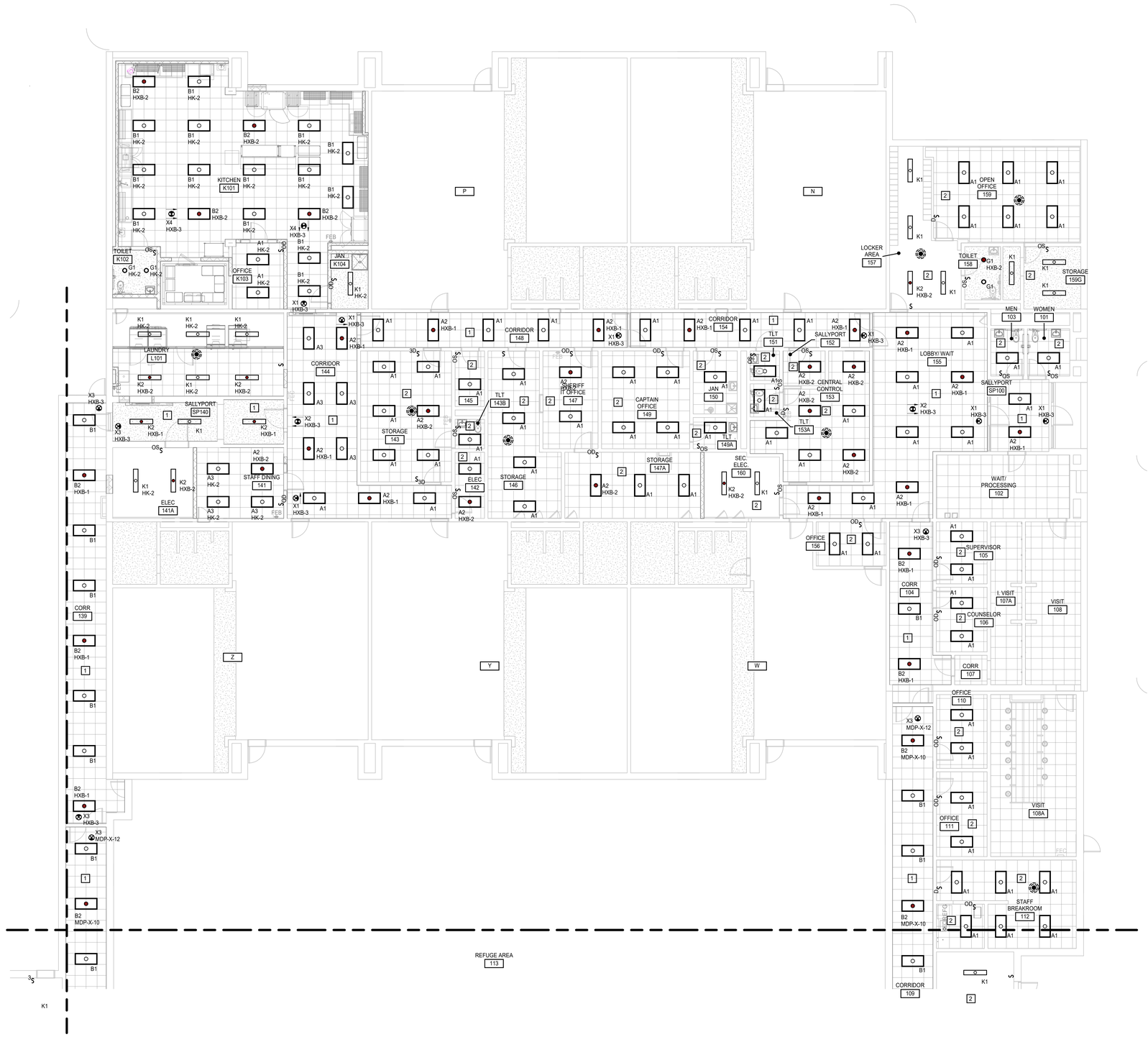
REVISIONS	
DATE	DESCRIPTION

KEY PLAN

FIRST FLOOR PLAN - POWER - PART B

E2.1.4

10/13/2025 8:37:19 PM



FIRST FLOOR PLAN - LIGHTING - PART C

1/8" = 1'-0"

KEYNOTES

APPLIES TO THIS DRAWING

1 U.N.O. PROVIDE FIXTURES AS INDICATED & RECONNECT TO EXISTING UNSWITCHED BRANCH CIRCUIT. EXTEND EXISTING CIRCUITING AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

2 U.N.O. PROVIDE FIXTURES & SWITCHING AS INDICATED & RECONNECT TO EXISTING BRANCH CIRCUIT HOMERUN. EXTEND EXISTING CIRCUITING AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

GENERAL NOTES

A. WITHIN DAYROOMS, FIXTURES INDICATED AS EMERGENCY AND NOT NIGHT LIGHT (NL) SHALL BE RELAY CONTROLLED VIA THE EXISTING RELAY CIRCUIT(S). PROVIDE UL924 DEVICE FOR EACH DAYROOM, LOCATED IN MEZZANINE ADJACENT TO DAYROOM. EXTEND EXISTING CIRCUITRY AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

B. FIXTURES INDICATED AS NIGHT LIGHT (NL) SHALL BE ON 24/7, NOT SWITCHED. MODIFY EXISTING CIRCUITRY AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

C. FIXTURES INDICATED AS EMERGENCY, NOT WITHIN DAYROOMS, SHALL BE PROVIDED WITH A UL924 DEVICE (MINIMUM ONE DEVICE PER SWITCHING ZONE). IN ADDITION TO UNSWITCHED EMERGENCY CIRCUIT INDICATED, PROVIDE SWITCHED NORMAL CIRCUIT TO UL924 DEVICE FROM ADJACENT NORMAL FIXTURES IN EACH SPACE.

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER KRTIN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

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DATE	DESCRIPTION

FIRST FLOOR PLAN - LIGHTING - PART C

KEY PLAN

E2.1.5

10/13/2025 8:37:24 PM

DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.1.6

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
ACCU_2	480 V	3	1.3 kVA	H	8,10,12	(3) #12, (1) #12 E.G. IN 3/4"C	30A/NF DISCONNECT	REPLACE EX BREAKER WITH 15A/3P
CRU-1	480 V	3	24.4 kVA	H	14,16,18	(3) #8, (1) #10 E.G. IN 1"C	60A/NF DISCONNECT	REPLACE EX BREAKER WITH 40A/3P
D-IV-1	120 V	1	0.0 kVA	LK	1	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
D-SEF-9	120 V	1	0.0 kVA	LK	1	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
EF-14	120 V	1	0.3 kVA	LK	3	(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	
FSD-2	120 V	1	0.1 kVA	LK	1	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-3	120 V	1	0.1 kVA	LK	1	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-4	120 V	1	0.1 kVA	LK	27	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-5	120 V	1	0.1 kVA	LK	27	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-6	120 V	1	0.1 kVA	LK	1	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-7	120 V	1	0.1 kVA	LK	1	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-8	120 V	1	0.1 kVA	LK	1	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-12	120 V	1	0.1 kVA	LK	27	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-13	120 V	1	0.1 kVA	LK	27	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-15	120 V	1	0.1 kVA	LK	27	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	
FSD-16	120 V	1	0.1 kVA	LK	27	(2) #12, (1) #12 E.G. IN 3/4"C	N/A	

KITCHEN & LAUNDRY EQUIPMENT SCHEDULE

ITEM #	DESRIPT	VOLTAGE	# OF POLES	LOAD	PANEL	CKT #	WIRE
1-a	COOLER LTG	120 V	1	0 VA	LK	20	(2) #12, (1) #12 E.G IN 3/4"C
1-b	COOLER EVAP COIL	208 V	2	100 VA	LK	21,23	(2) #12, (1) #12 E.G IN 3/4"C
1-c	COOLER CONDENSING UNIT	208 V	3	2190 VA	LK	22,24,26	(3) #12, (1) #12 E.G IN 3/4"C
3	DISPOSER	208 V	3	1830 VA	LK	12,14,16	(2) #12, (1) #12 E.G IN 3/4"C
16-a	DISHWASHER	480 V	3	42982 VA	HK	4,6,8	(3) #4, (1) #8 E.G IN 1 1/4"C
21	COMBI OVEN	120 V	1	192 VA	LK	2	(2) #12, (1) #12 E.G IN 3/4"C
21-A	COMBI OVEN	480 V	3	37395 VA	HK	7,9,11	(3) #4, (1) #10 E.G IN 1"C
22-1	MOBILE HEATED CABINET	120 V	1	2004 VA	LK	4	(2) #10, (1) #10 E.G IN 3/4"C
22-2	MOBILE HEATED CABINET	120 V	1	2004 VA	LK	6	(2) #10, (1) #10 E.G IN 3/4"C
23	REACH-IN CABINET	120 V	1	900 VA	LK	7	(2) #12, (1) #12 E.G IN 3/4"C
25	ICE MAKER	208 V	2	2288 VA	LK	8,10	(2) #12, (1) #12 E.G IN 3/4"C
26	MOBILE COLD UNIT	120 V	1	696 VA	LK	9	(2) #12, (1) #12 E.G IN 3/4"C
27	HOT FOOD SERVICE COUNTER	208 V	2	5990 VA	LK	11,13	(3) #8, (1) #10 E.G IN 1 1/4"C
32-1	DRYER	480 V	3	5817 VA	HK	19,21,23	(3) #12, (1) #12 E.G IN 3/4"C
32-2	DRYER	480 V	3	5817 VA	HK	16,18,20	(3) #12, (1) #12 E.G IN 3/4"C
33-1	WASHER	480 V	3	3000 VA	HK	10,12,14	(3) #12, (1) #12 E.G IN 3/4"C
33-2	WASHER	480 V	3	3000 VA	HK	13,15,17	(3) #12, (1) #12 E.G IN 3/4"C

GENERAL NOTES:

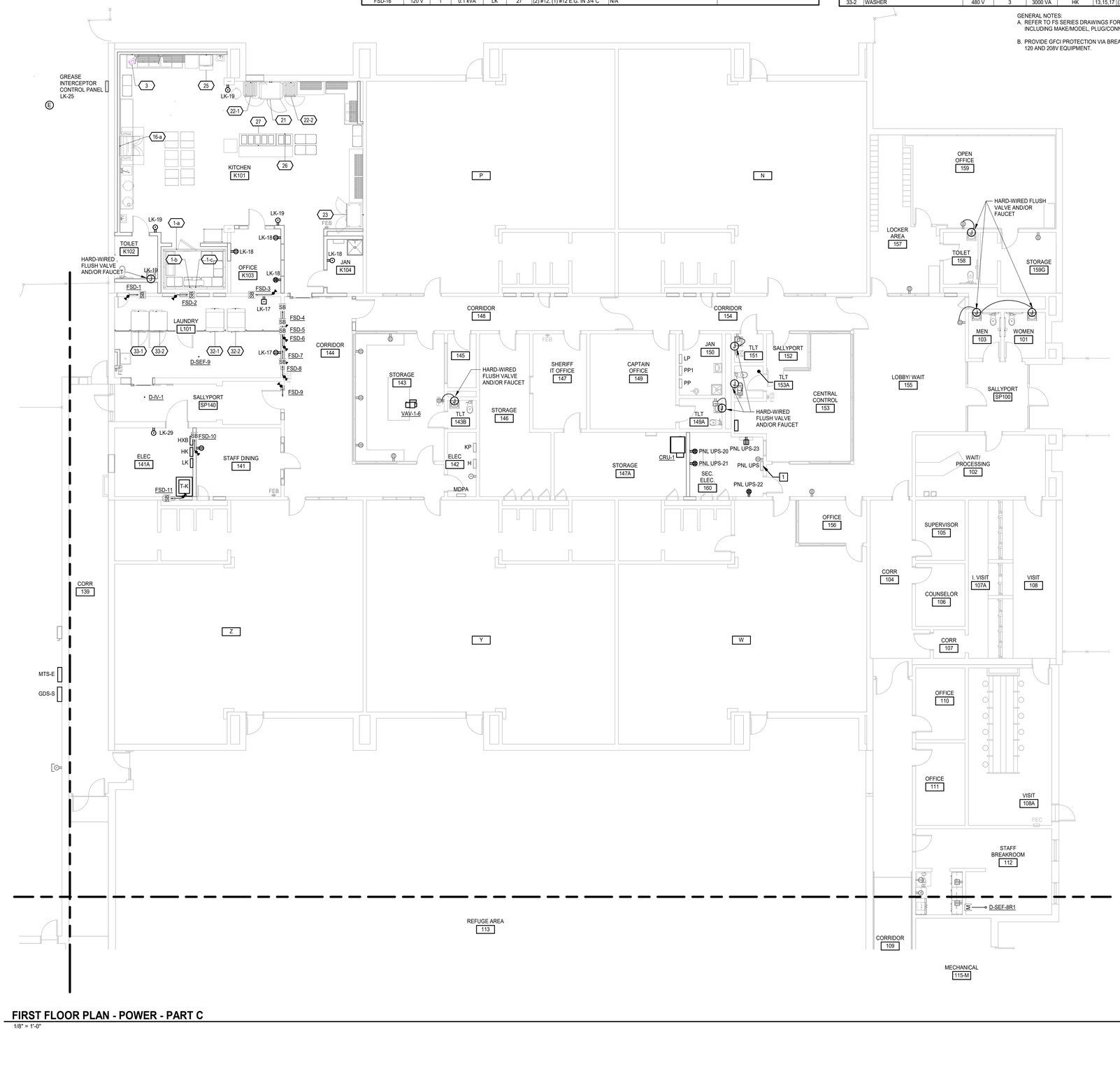
A. REFER TO FS SERIES DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING MAKE/MODEL, PLUG/CONNECTION TYPES, ETC.

B. PROVIDE GFCI PROTECTION VIA BREAKER OR RECEPTACLE FOR ALL 120 AND 208V EQUIPMENT.

KEYNOTES

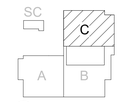
APPLIES TO THIS DRAWING

1 PROVIDE (4) 20A/1P BREAKERS IN EXISTING SQUARE D NQ PANELBOARD.



FIRST FLOOR PLAN - POWER - PART C

1/8" = 1'-0"



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PHONE (919) 840-0091
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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER BRIAN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

FIRST FLOOR PLAN - POWER - PART C

E2.1.6

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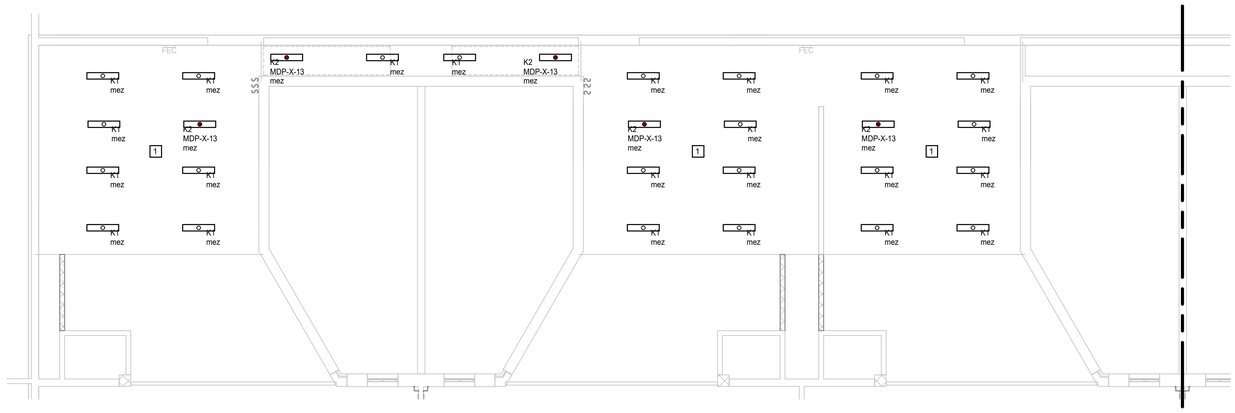
KEYNOTES

APPLIES TO THIS DRAWING

1 U.N.O. PROVIDE FIXTURES AS INDICATED & RECONNECT TO EXISTING SWITCHING AND BRANCH CIRCUIT. EXTEND EXISTING CIRCUITING AS REQUIRED UTILIZING (2) #12, (1) #12 E.G. IN 3/4"C.

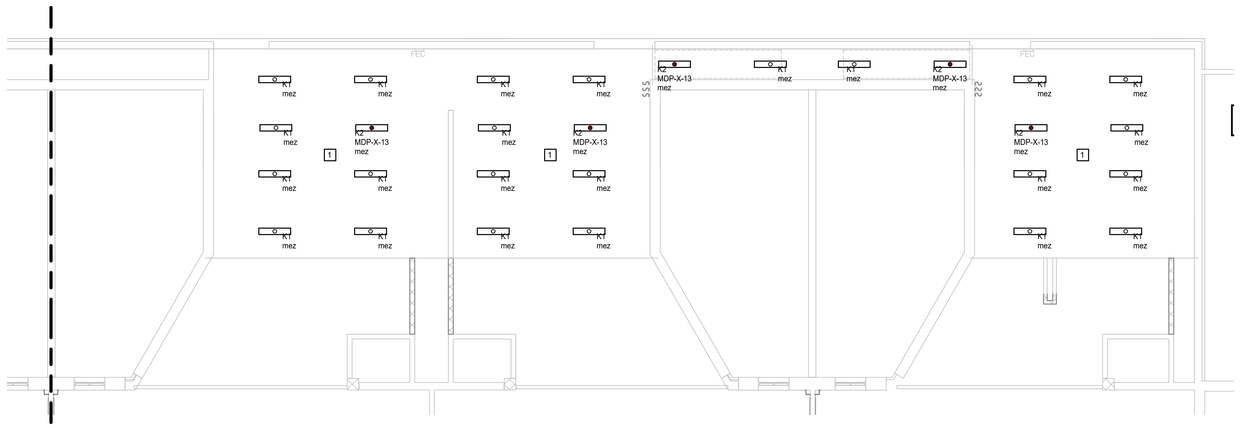
GENERAL NOTES

A. FIXTURES INDICATED AS EMERGENCY, NOT WITHIN DAYROOMS, SHALL BE PROVIDED WITH A UL924 DEVICE (MINIMUM ONE DEVICE PER SWITCHING ZONE). IN ADDITION TO UNSWITCHED EMERGENCY CIRCUIT INDICATED, PROVIDE SWITCHED NORMAL CIRCUIT TO UL924 DEVICE FROM ADJACENT NORMAL FIXTURES IN EACH SPACE.



MEZZANINE PLAN - LIGHTING - AREA A

1/8" = 1'-0"



MEZZANINE PLAN - LIGHTING - AREA B

1/8" = 1'-0"

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DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 842088
DATE: OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

SC
A B C
KEY PLAN

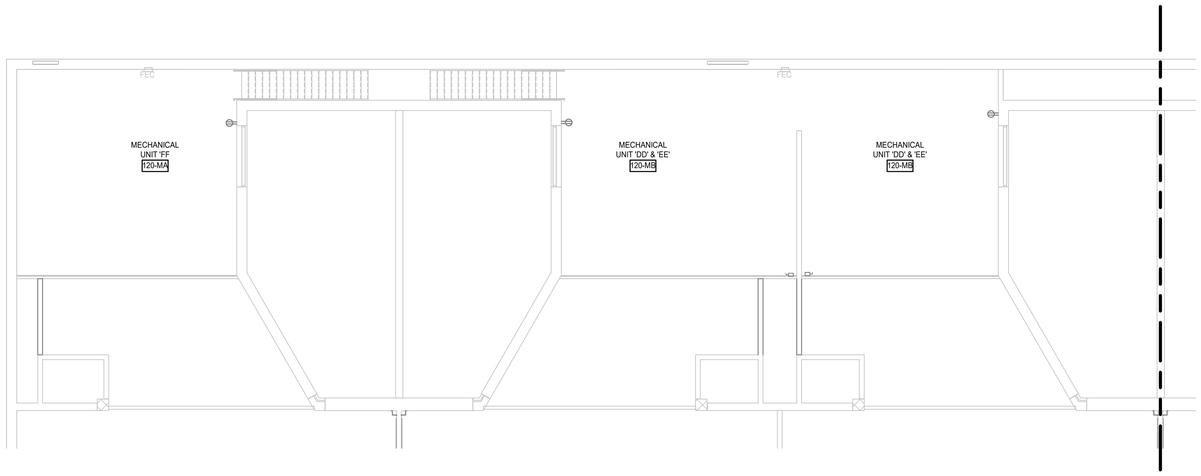
MEZZANINE PLANS - LIGHTING

E2.2.1

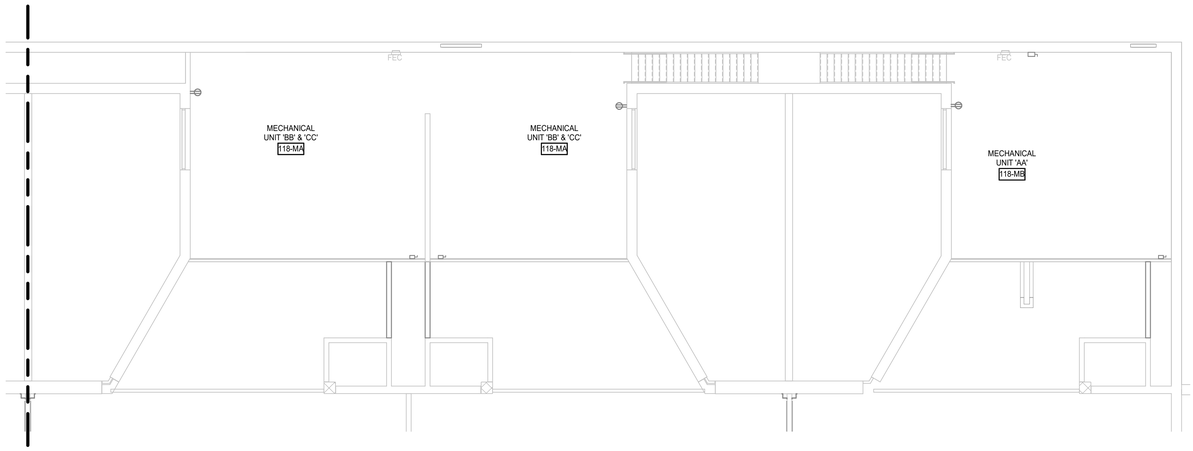
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DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.2.2

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS



1 E2.2.2 **MEZZANINE PLAN - POWER - PART A**
1/8" = 1'-0"



2 E2.2.2 **MEZZANINE PLAN - POWER - PART B**
1/8" = 1'-0"

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DETENTION ANNEX RENOVATION

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DATE	DESCRIPTION

SC C A B
KEY PLAN

MEZZANINE PLANS - POWER

E2.2.2

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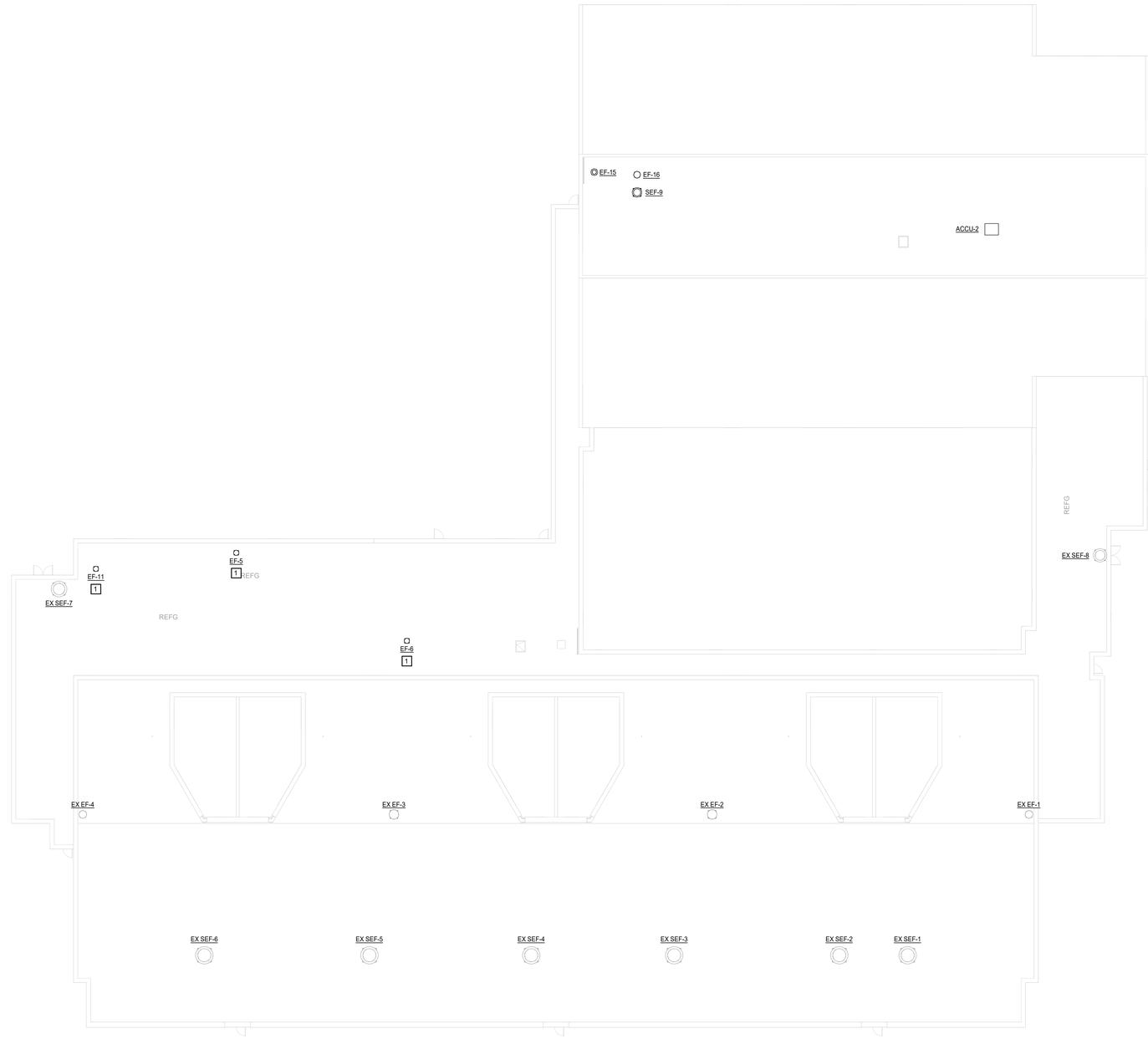
DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.3

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
EF-5	120 V	1	0.1 kVA			(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	
EF-6	120 V	1	0.1 kVA			(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	
EF-11	120 V	1	0.1 kVA			(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	
EF-15	120 V	1	0.3 kVA	LK	5	(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	
EF-16	120 V	1	0.6 kVA	LK	15	(2) #12, (1) #12 E.G. IN 3/4"C	MOTOR RATED SWITCH	
SEF-9	480 V	3	2.8 kVA	MDP-S	8,10,12	(3) #12, (1) #12 E.G. IN 3/4"C	30A COMBO STARTER DISC. W/ 5A FUSES	

KEYNOTES

APPLIES TO THIS DRAWING

1 DISCONNECT & RECONNECT EXISTING 120V 20A BRANCH CIRCUIT TO EXHAUST FAN TO ACCOMMODATE REPLACEMENT BY DIV 23.



ROOF PLAN

1/16" = 1'-0"

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DETENTION ANNEX RENOVATION

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PROJECT NO: 842088
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DATE	DESCRIPTION

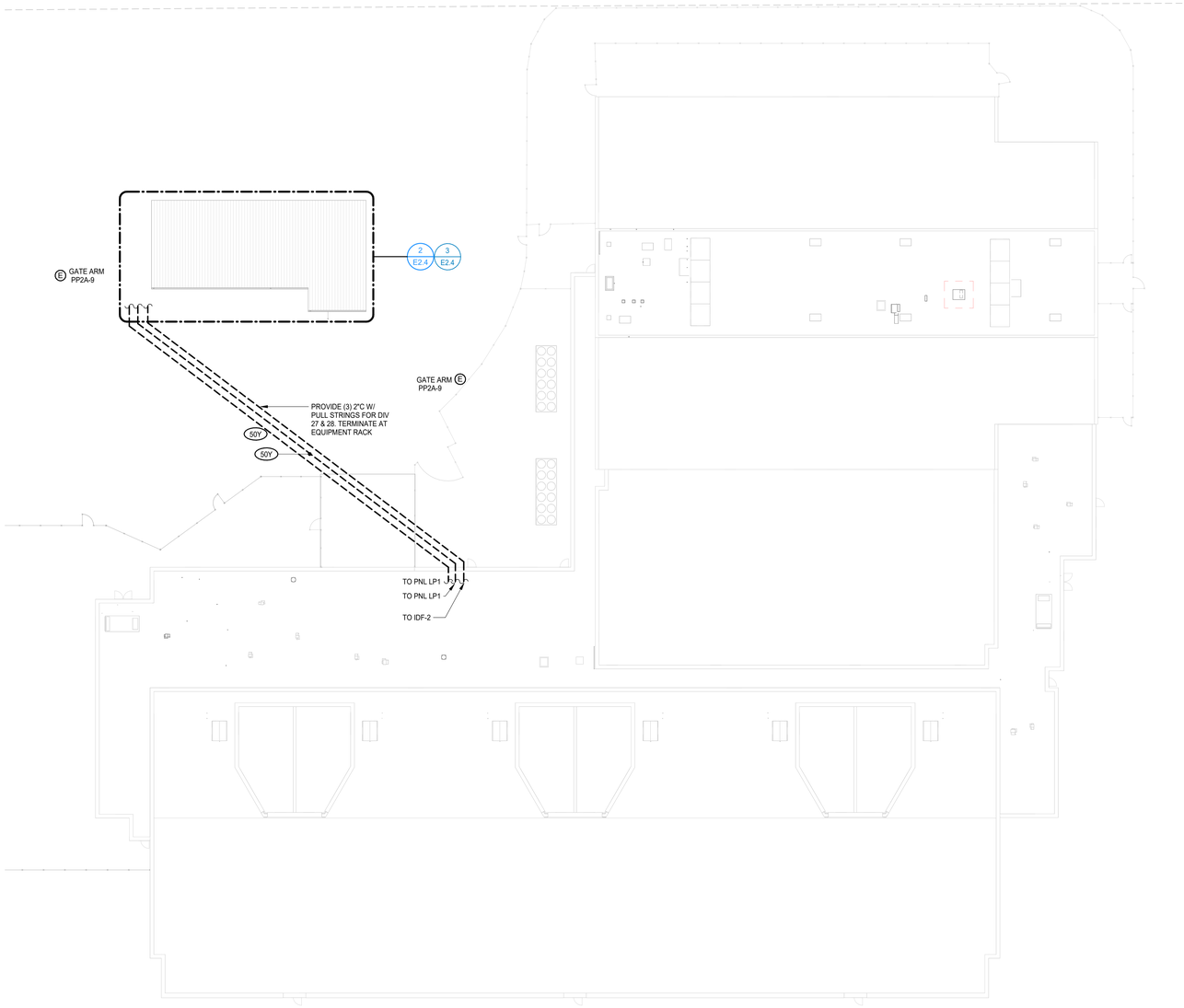
SC C A B

KEY PLAN

ROOF PLAN

E2.3

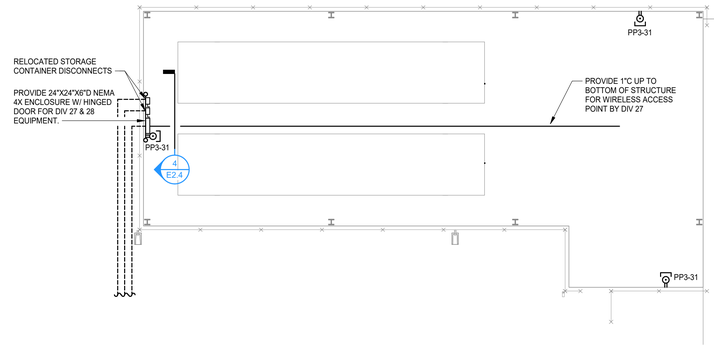
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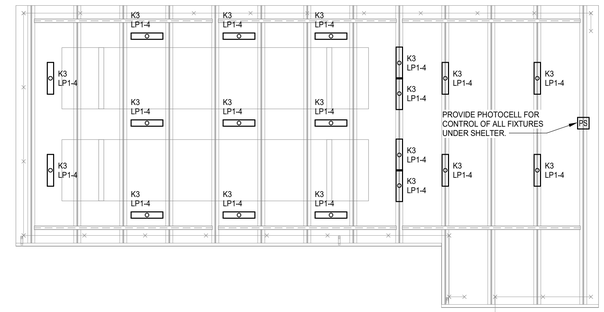
1 E2.4 **ELECTRICAL SITE PLAN - STORAGE CONTAINERS**

1" = 20'-0"



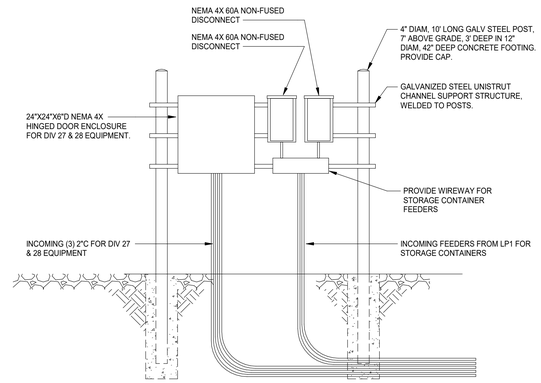
2 E2.4 E2.4 **STORAGE CONTAINER PLAN - POWER**

1/8" = 1'-0"



3 E2.4 **STORAGE CONTAINER PLAN - LIGHTING**

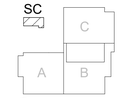
1/8" = 1'-0"



4 E2.1.2 E2.4 **ELECTRICAL EQUIPMENT SUPPORT RACK ELEVATION**

NO SCALE

SC



KEY PLAN

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DETENTION ANNEX RENOVATION

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PROJECT NO: 642088
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REVISIONS	
DATE	DESCRIPTION

STORAGE CONTAINER PLANS

E2.4

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GENERAL NOTES

A. REFER TO E4.1 FOR TELECOMMUNICATIONS OUTLET DETAIL FOR CONDUIT AND BOX REQUIREMENTS AT EACH LOCATION.

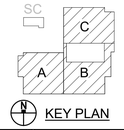
B. WHERE TELECOMMUNICATION OUTLETS ARE BEING REPLACED IN KIND, THE CONTRACTOR SHALL ASSUME THE EXISTING RACEWAYS ARE NOT REUSABLE. REFER TO E1 SERIES FOR EXISTING TELECOMMUNICATION OUTLET LOCATIONS. THROUGH FIELD VERIFICATION, IF THE CONTRACTOR HAS DETERMINED SPECIFIC RACEWAYS ARE REUSABLE AND ARE OF SUFFICIENT SIZE, PROVIDE MARKUP OF LOCATIONS AND CONDUIT SIZE TO THE ENGINEER FOR REVIEW AND APPROVAL TO UTILIZE EXISTING RACEWAY.

C. REFER TO G SERIES DRAWINGS FOR SECURE/NON-SECURE AREAS. REFER TO 260533 & 270533 FOR RACEWAYS USED IN EACH AREA.



FIRST FLOOR PLAN - TELECOMMUNICATIONS ROUGH-IN

1/16" = 1'-0"



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DETENTION ANNEX RENOVATION

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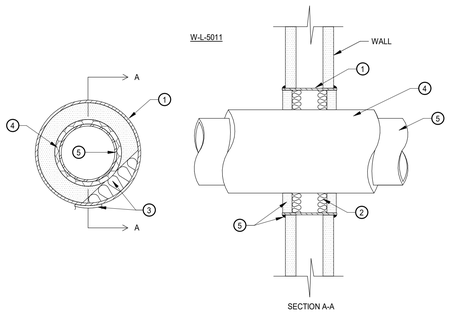
PROJECT NO: 642088
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REVISIONS	
DATE	DESCRIPTION

FIRST FLOOR PLAN - TELECOMMUNICATIONS ROUGH IN

E2.5

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1. STEEL SLEEVE - CYLINDRICAL SLEEVE FABRICATED FROM MINIMUM 0.019" THICK (NO. 28 GAUGE) GALVANIZED SHEET STEEL AND HAVING A MINIMUM 2" LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL PLUS 1" SUCH THAT, WHEN INSTALLED, THE ENDS OF THE SLEEVE WILL PROJECT APPROXIMATELY 1/2" BEYOND THE SURFACE OF THE WALL ON BOTH SIDES OF THE WALL ASSEMBLY. THE DIAMETER OF THE OPENINGS CUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL ASSEMBLY (CONCENTRIC WITH PIPE) TO BE 2" TO 2-1/2" LARGER THAN OUTSIDE DIAMETER OF PIPE INSULATION SUCH THAT, WHEN THE STEEL SLEEVE IS INSTALLED, A 1" TO 1-1/4" ANNULAR SPACE WILL BE PRESENT BETWEEN THE STEEL SLEEVE AND THE PIPE INSULATION AROUND THE ENTIRE CIRCUMFERENCE OF THE PIPE. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAMETER SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENINGS AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM WALLBOARD LAYERS.

2. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO STEEL SLEEVE ON BOTH SIDES OF THE WALL ASSEMBLY AS PERMANENT FORMS. PACKING MATERIAL TO BE RECESSED MINIMUM 1" FROM END OF STEEL SLEEVE (RECESSED MINIMUM 1/2" INTO GYPSUM WALLBOARD SURFACE) ON BOTH SIDES OF WALL ASSEMBLY.

3. FILL, VOID OR CAVITY MATERIALS* -CAULK- MINIMUM 1" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS ON BOTH SIDES OF WALL ASSEMBLY. THICKNESS FOR FILL MATERIAL FOR NOMINAL 3" DIAMETER (OR SMALLER) STEEL PIPES MAY BE REDUCED TO A MINIMUM 1/2". A NOMINAL 1/4" DIAMETER CONTINUOUS BEAD OF CAULK SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE STEEL SLEEVE AT ITS EGRESS FROM THE GYPSUM WALLBOARD LAYERS ON BOTH SIDES OF THE WALL ASSEMBLY.

MINNESOTA MINING & MFG. CO.- CP 25WB+

4. PIPE COVERING* - NOMINAL 1" OR 1-1/2" THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MINIMUM 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENER STRIP TAPE SUPPLIED WITH THE PRODUCT.

5. THROUGH PENETRANT - ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. WHEN STEEL PIPE IS USED, T RATING IS 1 HR.

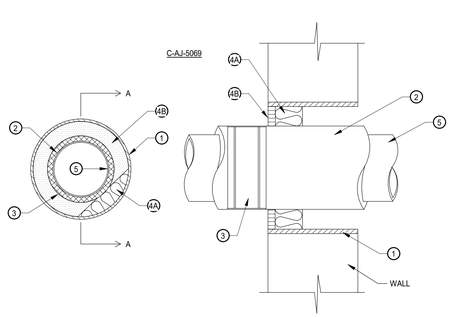
B. CONDUIT - NOMINAL 3" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. WHEN STEEL CONDUIT IS USED, T RATING IS 1/4 HR.

C. COPPER TUBING - NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. WHEN COPPER TUBING IS USED, T RATING 1/2 AND 1 HR WHEN INSTALLED IN 1 AND 2 HR RATED WALLS, RESPECTIVELY.

D. COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

* BEARING THE UL CLASSIFICATION MARKING

1 PENETRATION THROUGH 1 HOUR FIRE RATED WALL
1 / E4.1 — NO SCALE



1. METALLIC SLEEVE - (OPTIONAL) NOMINAL 22" DIAMETER (OR SMALLER) SCHEDULE 40 STEEL PIPE CAST OR GROUTED INTO WALL ASSEMBLY, FLUSH WITH WALL SURFACES.

2. PIPE COVERING MATERIALS* -CELLULAR GLASS INSULATION- NOMINAL 1-1/2" OR 3" THICK CELLULAR GLASS PIPE INSULATION SIZED TO THE OUTSIDE DIAMETER OF THE STEEL PIPE OR TUBE AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. T RATING IS 0 HR WHEN NOMINAL 1-1/2" THICK PIPE INSULATION IS USED. T RATING IS 1 HR WHEN NOMINAL 3" THICK PIPE INSULATION IS USED. THE ANNULAR SPACE SHALL BE MINIMUM 3/4" TO MAXIMUM 3".

PITTSBURGH CORNING CORP.- FOAMGLASS

3. METAL JACKET - MINIMUM 12" LONG JACKET FORMED OF MINIMUM 0.010" THICK STEEL OR ALUMINUM SHEET CUT TO WRAP TIGHTLY AROUND THE PIPE INSULATION WITH A MINIMUM 2" LAP. JACKET SECURED WITH MINIMUM 1/2" WIDE STAINLESS STEEL HOSE CLAMPS OR BANDS LOCATED WITHIN 2" OF EACH END OF THE JACKET AND SPACED A MAXIMUM OF 10" O.C. JACKET TO BE INSTALLED WITH ABUTTING SURFACE OF SEALANT (ITEM 6B) ON BOTH SURFACES OF WALL.

4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL - MINIMUM 3" THICKNESS OF MINIMUM 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL* -SEALANT- MINIMUM 3/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

HILTI CONSTRUCTION CHEMICALS, INC.- FS605 OR FS-ONE SEALANT

5. THROUGH PENETRANT - ONE METALLIC PIPE OR TUBING TO BE POSITIONED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:

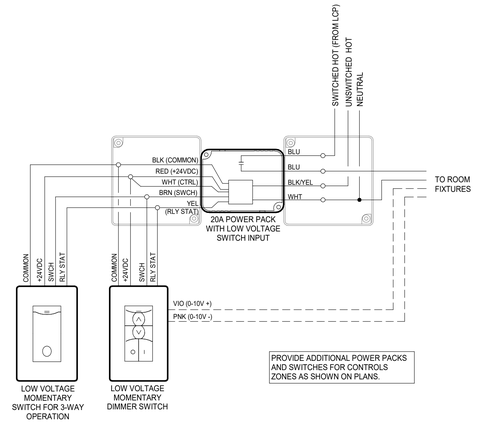
A. STEEL PIPE - NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.

B. COPPER TUBING - NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

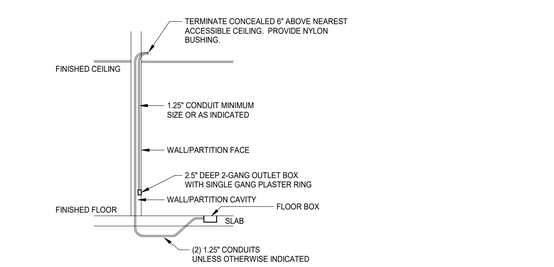
C. COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

* BEARING THE UL CLASSIFICATION MARKING

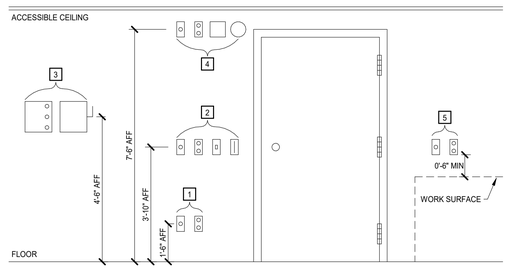
2 PENETRATION THROUGH 2 HOUR FIRE RATED WALL
2 / E4.1 — NO SCALE



3 LOW VOLTAGE SWITCH WIRING DIAGRAM
3 / E4.1 — NO SCALE



4 TELECOMMUNICATIONS OUTLET CONDUIT DETAIL
4 / E4.1 — NO SCALE

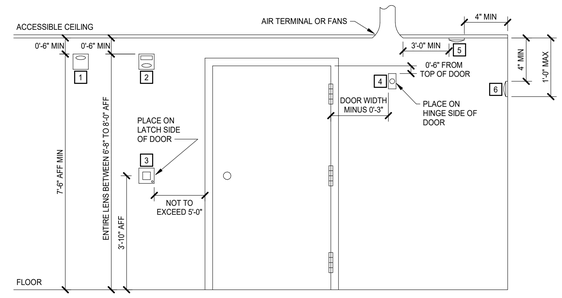


KEY NOTES:

1	RECEPTACLE OR TELECOMMUNICATIONS DEVICES MOUNTED AT 1'-6" AFF UNO ON FLOOR PLAN	LEGEND SYMBOL: REFER TO RECEPTACLES DEVICE AND COMMUNICATIONS LEGEND FOR COMPLETE LIST OF SYMBOLS
2	RECEPTACLE, TELECOMMUNICATIONS DEVICES, LIGHT SWITCH, POWER DEVICES / EQUIPMENT OR CARD READER MOUNTED AT 3'-10" AFF UNO ON FLOOR PLAN	LEGEND SYMBOL: (CR) OR (KP) OR (S) OR (T) REFER TO RECEPTACLES DEVICE, COMMUNICATIONS, POWER DEVICES / EQUIPMENT LEGEND FOR COMPLETE LIST OF SYMBOLS
3	POWER DEVICES / EQUIPMENT MOUNTED AT 4'-6" AFF UNO ON FLOOR PLAN. IF EQUIPMENT HAS HANDLE OR SWITCHES, MIDDLE OF HANDLE OR SWITCH SHALL BE AAT 4'-6" AFF UNO.	LEGEND SYMBOL: REFER TO POWER DEVICES / EQUIPMENT LEGEND FOR COMPLETE LIST OF SYMBOLS
4	RECEPTACLE OR TELECOMMUNICATIONS DEVICES MOUNTED AT 7'-6" AFF UNO ON FLOOR PLAN	LEGEND SYMBOL: REFER TO RECEPTACLES DEVICE, COMMUNICATIONS, POWER DEVICES / EQUIPMENT LEGEND FOR COMPLETE LIST OF SYMBOLS
5	RECEPTACLE OR TELECOMMUNICATIONS DEVICES MOUNTED ABOVE WORK SURFACE	NOTES: 1. ALL DEVICES MOUNTED ABOVE NON-ADA COMPLIANT WORK SURFACES SHALL ADHERE TO THE FOLLOW: A. BOTTOM OF DEVICE SHALL BE 0'-6" MINIMUM ABOVE WORK SURFACE. 2. ALL DEVICES MOUNTED ABOVE ADA COMPLAINT WORK SURFACES SHALL ADHERE TO THE FOLLOW: A. BOTTOM OF DEVICE SHALL BE 0'-6" MINIMUM ABOVE WORK SURFACE. B. TOP OF DEVICE SHALL BE NO HIGHER THAN 3'-8" ABOVE WORK SURFACE FOR OBSTRUCTED FORWARD REACH. C. TOP OF DEVICE SHALL BE NO HIGHER THAN 3'-10" ABOVE WORK SURFACE FOR OBSTRUCTED SIDE REACH.

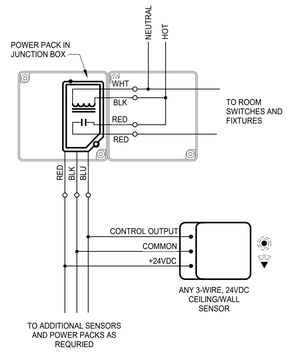
REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHTS AND ELEVATIONS OF ALL WORK SURFACES

5 E4_TYPICAL DEVICE ELEVATION DETAIL
5 / E4.1 — NO SCALE

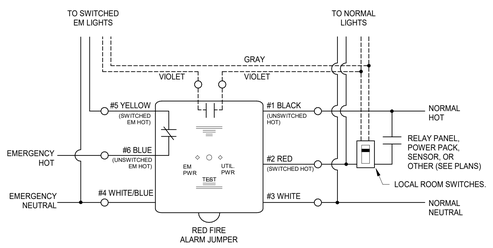


KEY NOTES:

1	FIRE ALARM AUDIO ONLY DEVICE,	LEGEND SYMBOL:
2	FIRE ALARM VISUAL ONLY DEVICE OR FIRE ALARM AUDIO/VISUAL DEVICE,	LEGEND SYMBOL: OR
3	FIRE ALARM MANUAL PULL STATION OR FIRE ALARM KEY OPERATED MANUAL PULL STATION,	LEGEND SYMBOL: (F) OR (FK)
4	FIRE ALARM MAGNETIC DOOR HOLDER	LEGEND SYMBOL: (M)
5	FIRE ALARM INITIATING DEVICES - CEILING MOUNTED: SMOKE, HEAT, CARBON OR COMBO DETECTORS	LEGEND SYMBOL: (S) OR (H) OR (CO) OR (SC)
6	FIRE ALARM INITIATING DEVICES - WALL MOUNTED: SMOKE, HEAT, CARBON OR COMBO DETECTORS	LEGEND SYMBOL: (S) OR (H) OR (CO) OR (SC)

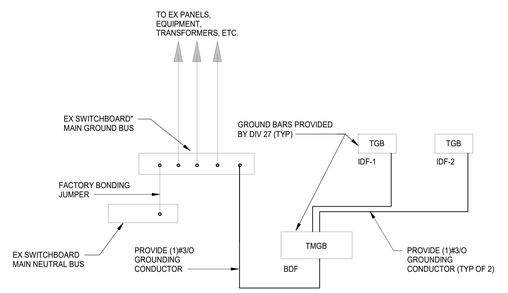


6 OCCUPANCY SENSOR WIRING DIAGRAM
6 / E4.1 — NO SCALE



NOTE: DIMMING LEADS NOT USED FOR NON-DIMMING APPLICATIONS.

8 UL924 ALCR WIRING DIAGRAM
8 / E4.1 — NO SCALE



7 GROUNDING SYSTEM DIAGRAM
7 / E4.1 — 12" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040202 10/13/25 ENGINEER KRTIN C. WELTY

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

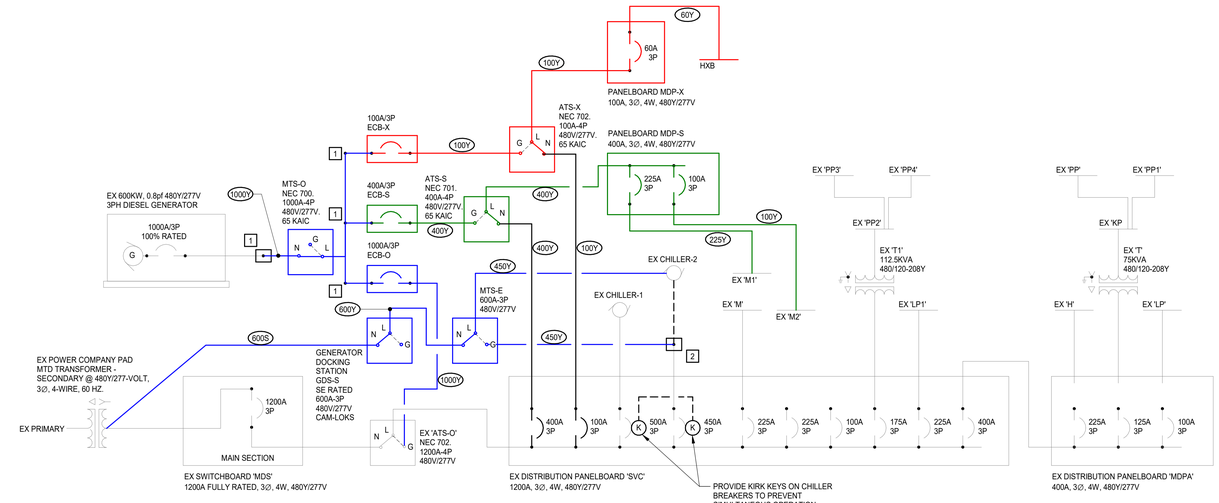
REVISIONS

DATE	DESCRIPTION

DETAILS

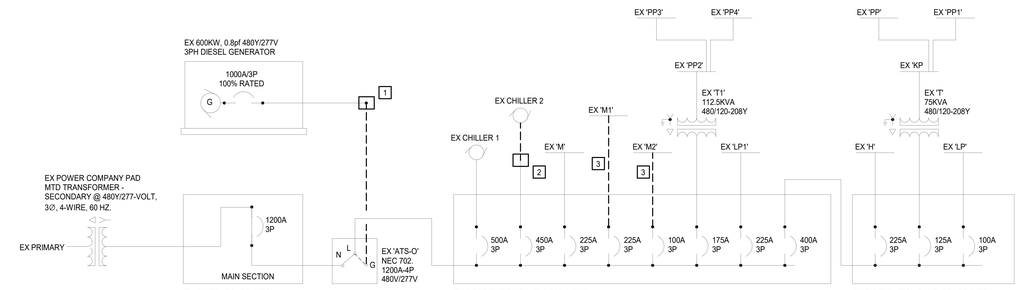
E4.1

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1 ONE LINE DIAGRAM
E5.1

12" = 1'-0"



2 ONE LINE DIAGRAM - DEMOLITION
E5.1

12" = 1'-0"

ONE-LINE DIAGRAM KEYNOTES

APPLIES TO DRAWINGS An.1 - An.nn
REPRESENTED BY [n]

1. DISCONNECT EXISTING 1000A GENERATOR FEEDER FROM ATS-O AND PULL BACK TO APPROXIMATELY 5FT FROM THE EXTERIOR OF THE BUILDING. CAPTURE EXISTING UNDERGROUND FEEDER, PROVIDE HANDHOLE, AND NEMA 4X SURFACE MOUNTED WIREWAY, AND PROVIDE TAP CONDUCTORS FOR ECB-X, ECB-S, AND ECB-O. REFER TO 2/E2.1.2 FOR ADDITIONAL INFORMATION.
2. DISCONNECT EXISTING CHILLER 2 FEEDER FROM "SVC" AND PULL BACK TO EXTERIOR MOUNTED CONDUIT LOCATION. PROVIDE ENCLOSURE TO CAPTURE AND TERMINATE EXISTING FEEDER ON "MTS-E". REFER TO 2/E1.1 FOR ADDITIONAL INFORMATION.
3. DISCONNECT & REMOVE M1 & M2 FEEDER AND PREPARE TO RE-FEED FROM "MDP-S" NEC 701 DISTRIBUTION PANEL.

ONE-LINE DIAGRAM GENERAL NOTES

A. PROVIDE A SHORT CIRCUIT AND COORDINATION STUDY PER THE CONTRACT DOCUMENTS. NEC 700 SYSTEM (ALL OVERCURRENT PROTECTIVE DEVICES UP AND DOWNSTREAM OF ATS-X) SHALL BE SELECTIVELY COORDINATED TO A MAXIMUM 0.1 SECONDS. SYSTEM IS INDICATED HERE WITH CIRCUIT BREAKERS. PROVIDE FIXED, ADJUSTABLE AND ELECTRONIC ADJUSTABLE BREAKER AS REQUIRED. FUSES MAY BE USED IF DESIRED OR REQUIRED TO ACHIEVE REQUIRED SELECTIVITY. THE COORDINATION STUDY SHALL DEMONSTRATE REQUIRED SELECTIVITY FOR THE ENTIRE NEC 700 SYSTEM WITHOUT ADJUSTMENT TO THE CONTRACT AMOUNT . EQUIPMENT SHALL NOT BE RELEASED FOR FABRICATION UNTIL THE SHORT CIRCUIT AND COORDINATION REPORT IS APPROVED BY THE ARCHITECT. THE CONTRACTOR IS ADVISED NOT TO ORDER ELECTRICAL EQUIPMENT PRIOR TO SUBMISSION AND APPROVAL OF THE COORDINATION STUDY. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR MODIFICATION OF ELECTRICAL EQUIPMENT ORDERED PRIOR THE APPROVED COORDINATION STUDY.

LOAD SUMMARY

LOAD DESCRIPTION	CONNECTED (VA)
EXISTING LOAD	910718
CHILLER REMOVED	(212787)
LIGHTING REMOVED	(30600)
NET EXISTING LOAD	667331
ADDED LOAD	118300
TOTAL CONNECTED (KVA)	785.6
TOTAL CONNECTED (A)	945.2

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#2,#8 G	1 1/2"
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"
450	2	3#4/0,#2 G	2 1/2"	450Y	2	4#4/0,#2 G	2 1/2"
500	2	3-250kCM,#2 G	2 1/2"	500Y	2	4-250kCM,#2 G	2 1/2"
600S	2	4-350kCM	3"	600Y	2	4-350kCM,#1 G	3"
700	2	3-500kCM,#1/0 G	4"	700Y	2	4-500kCM,#1/0 G	4"
800	3	3-350kCM,#1/0 G	3"	800Y	3	4-350kCM,#1/0 G	3"
1000	3	3-500kCM,#2/0 G	4"	1000Y	3	4-500kCM,#2/0 G	4"
1200	4	3-350kCM,#3/0 G	3"	1200Y	4	4-350kCM,#3/0 G	3"
1600	5	3-500kCM,#4/0 G	4"	1600Y	5	4-500kCM,#4/0 G	4"
2000	6	3-500kCM,#250 G	4"	2000Y	6	4-500kCM,#250 G	4"
2500	7	3-500kCM,#350 G	4"	2500Y	7	4-500kCM,#350 G	4"

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.

TRANSFORMER SCHEDULE

kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR
15 kVA	LINEAR	480V-3Ø	208Y/120V	3#10, #10 G, 3/4" C.	4#4, #8 G, 1-1/4" C.	#8
30 kVA	LINEAR	480V-3Ø	208Y/120V	3#6, #10 G, 1" C.	4#1, #6 G, 1-1/2" C.	#6
45 kVA	LINEAR	480V-3Ø	208Y/120V	3#4, #8 G, 1-1/4" C.	4#1/0, #6 G, 2" C.	#6
75 kVA	LINEAR	480V-3Ø	208Y/120V	3#1, #6 G, 1-1/2" C.	4-250kCM, #2 G, 2-1/2" C.	#2
112.5 kVA	LINEAR	480V-3Ø	208Y/120V	3#2/0, #6 G, 2" C.	(2 SETS) 4-3/0, #2 G, 2-1/2" C.	#2
150 kVA	LINEAR	480V-3Ø	208Y/120V	3#4/0, #4 G, 2-1/2" C.	(2 SETS) 4-250kCM, #2/0 G, 2-1/2" C.	#2/0
225 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#2/0, #3 G, 2" C.	(3 SETS) 4-350kCM, #2/0 G, 3" C.	#2/0
300 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#4/0, #2 G, 2-1/2" C.	(4 SETS) 4-350kCM, #4/0 G, 4" C.	#3/0
500 kVA	LINEAR	480V-3Ø	208Y/120V	(3 SETS) 3-350kCM, #1/0 G, 4" C.	(6 SETS) 4-350kCM, 300kCM G, 4" C.	#3/0

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	SERIES NO.	VOLTAGE	WATTAGE	FINISH COLOR	MOUNTING TYPE	LIGHT SOURCE	LUMENS	CCT	CRI	DRIVER	OPTIONS & ACCESSORIES	LABELS & LISTINGS	COMMENTS
A1	2X4 RECESSED TROFFER	LITHONIA	2RTL4	277 V	50		RECESSED	LED	5000	3500K	90	0-10V 1%	3		
A2	2X4 RECESSED TROFFER-GTR	LITHONIA	2RTL4	277 V	50		RECESSED	LED	5000	3500K	90	0-10V 1%	3		
A3	2X4 RECESSED TROFFER	LITHONIA	2RTL4	277 V	50		RECESSED	LED	5000	3500K	90	0-10V 1%	3		
B1	2X4 VANDAL RESIST LENS	LITHONIA	2VRTL	277 V	50		RECESSED	LED	5000	3500K	90	0-10V 10%	3		
B2	2X4 VANDAL RESIST LENS-EM	LITHONIA	2VRTL	277 V	50		RECESSED	LED	5000	3500K	90	0-10V 10%	1, 3		
B3	13X11 IMPACT RESIST HIGH BAY	CURRENT	ECH	277 V	72		PENDANT	LED	12000	3500K	90	STANDARD	4		2
B4	13X11 IMPACT RESIST HIGH BAY - EM	CURRENT	ECH	277 V	72		PENDANT	LED	12000	3500K	90	STANDARD	1, 4		2
B5	2X2 VANDAL RESIST LENS	LITHONIA	2VRTL	277 V	50		RECESSED	LED	5000	3500K	90	0-10V 10%	3		
B6	2X2 VANDAL RESIST LENS	LITHONIA	2VRTL	277 V	50		RECESSED	LED	5000	3500K	90	0-10V 10%	3		
D1	4' MAX SECURITY	KENALL	SDSA 0/0 DCC 2/J 1	277 V	46	WHITE	SURFACE	LED	4600	3500K	90	0-10V			1
D2	4' MAX SECURITY - EM	KENALL	SDSA 4 0/0 45L35K DCC 2/J 1	277 V	46	WHITE	SURFACE	LED	4600	3500K	90	0-10V	1		1
D4	4' MAX SECURITY - NL	KENALL	SDSA 4 0/0 67L35K DCC 2/J 1	277 V	46	WHITE	SURFACE	LED	7100	3500K	90	0-10V	2		1
G1	DOWNLIGHT	LITHONIA	LDN6	277 V	22		RECESSED	LED	2000	3500K	90			5	
K1	STRIP LIGHT	LITHONIA	CSS	277 V	48		SURFACE OR CHAIN 10'-0" AFF UNO	LED	4800	3500K	90				
K2	STRIP LIGHT - EM	LITHONIA	CSS	277 V	48		SURFACE OR CHAIN 10'-0" AFF UNO	LED	4800	3500K	90		1		
K3	WET LISTED ENCLOSUED 4FT STRIP	LITHONIA	CLX	277 V	48		SURFACE	LED	4800	4000K	90				
L	SITE LIGHT W/ 25FT BLACK METAL POLE	LITHONIA	RSX3	277 V	194		POLE MOUNTED	LED	27283	4000K	90				3
V1	CHASE WALL MOUNT	LITHONIA	TWPX1	277 V			WALL 8'-0" AFF UNO	LED		3500K					
X1	SINGLE FACE EXIT SIGN	LITHONIA	LES	277 V	2		UNIVERSAL	LED							
X2	DOUBLE FACE EXIT SIGN	LITHONIA	LES	277 V	4		UNIVERSAL	LED							
X3	VANDAL RESISTANT SINGLE FACE EXIT SIGN	LITHONIA	LVS	277 V	3		UNIVERSAL	LED							
X4	VANDAL RESISTANT DOUBLE FACE EXIT SIGN	LITHONIA	LVS	277 V	6		UNIVERSAL	LED							

GENERAL NOTES:
A. ALL FIXTURES SHALL BE CAPABLE OF 120V AND 277V INPUT (MVOLT), UNO.
B. REFER TO LIGHTING PLANS AND SPECIFICATIONS FOR ADDITIONAL FIXTURE INFORMATION.
C. KITCHEN FIXTURES: INSTALL LENS WITH SMOOTH SIDE OUT.
D. ALL LENS SHALL BE A MINIMUM 0.125" THICKNESS, UNO.
E. WHERE FINISH OR FIXTURE COLOR IS INDICATED AS "TBD", IT SHALL BE SELECTED WITH THE PROJECT'S INTERIOR COLOR SELECTIONS IN ACCORDANCE WITH 099100 - PAINTING.
F. PROVIDE NUMBER OF FACES AND DIRECTIONAL CHEVRONS FOR EXIT SIGNS AS INDICATED ON DWGS.
G. PROVIDE LABEL AND LISTING DOCUMENTATION WITH LIGHTING FIXTURE SUBMITAL FOR EACH FIXTURE AND LABEL/LISTING INDICATED IN LIGHT FIXTURE SCHEDULE

OPTIONS & ACCESSORIES:
1. 90 MINUTE EMERGENCY BATTERY PACK.
2. NIGHT LIGHT.
3. PROVIDE FLANGE KIT WHEN MOUNTED IN DRYWALL CEILING.
4. WIDE OPTIC.

LABELS & LISTINGS:
1. DECLARE TRANSPARANCY
2. HPD TRANSPARANCY
3. RED LIST FREE
4. ENERGY STAR DLC
5. WET LISTED
6. IMPACT RESISTANT

COMMENTS:
1. MOUNT WITH TAMPER PROOF HARDWARE.
2. MOUNT FIXTURE AT BOTTOM OF STRUCTURE.
3. CONFIRM BOLT PATTERN WITH EXISTING POLE BASE.

MOSELEY ARCHITECTS
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PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER BRYAN C. MELTS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS	
DATE	DESCRIPTION

DIAGRAMS & SCHEDULES

E5.1

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PANELBOARD SCHEDULE — MDP-S

LOCATION: ELECTRICAL 136-M | FED FROM: ATS-S

400 AMP MCB | 480/277 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 65 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				31.9	15.5								2
3	225 A	3	M1			31.9	15.5			M2	3	100 A	4
5								31.9	15.5				6
7				3.9	0.9								8
9	35 A	3	SEF-7C			3.9	0.9			SEF-9	3	15 A	10
11								3.9	0.9				12
13				3.0	0.0					SPARE	1	20 A	14
15	20 A	3	SEF-78C			3.0	0.0			SPARE	1	20 A	16
17								3.0	0.0	SPARE	1	20 A	18
19	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	20
21	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	22
23	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	24
25	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	26
27	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	28
29	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	30
31	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	32
33	20 A	1	SPARE			0.0	0.0			SPARE	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	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	40
41	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	42
43	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	44
45	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	46
47	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	48
				55 kVA		55 kVA		55 kVA					
				199 A		199 A		199 A					

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

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 VA
AC / HEAT PUMP	0 VA	0.00%	0 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
HVAC	23500 VA	100.00%	23500 VA
MISCELLANEOUS	0 VA	0.00%	0 VA
EXISTING LOAD	142135 VA	100.00%	142135 VA

Panel Totals

Total Conn. Load: 165.6 kVA
Total Est. Demand: 165.6 kVA
Total Conn. Current: 199 A
Total Est. Demand Current: 199 A

PANELBOARD SCHEDULE — MDP-X

LOCATION: ELECTRICAL 136-M | FED FROM: ATS-X

100 AMP MCB | 480/277 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 65 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				1.5	0.3					LTG DORM FF	1	20 A	2
3	60 A	3	HXB			0.1	0.3			LTG DORM EE	1	20 A	4
5								0.0	0.3	LTG DORM DD	1	20 A	6
7	20 A	1	LTG DORM CC	0.3	0.3					LTG DORM BB	1	20 A	8
9	20 A	1	LTG DORM AA			0.3	0.9			LTG CORRIDORS	1	20 A	10
11	20 A	1	LTG MEDICAL, STORAGE, MECH					0.3	0.1	EXIT SIGNS	1	20 A	12
13	20 A	1	LTG MEZZANINE	0.0	0.0					SPARE	1	20 A	14
15	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	16
17	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	18
				3 kVA		2 kVA		1 kVA					
				10 A		6 A		2 A					

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

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	4872 VA	125.00%	6090 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 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	0 VA	0.00%	0 VA

Panel Totals

Total Conn. Load: 4.9 kVA
Total Est. Demand: 6.1 kVA
Total Conn. Current: 6 A
Total Est. Demand Current: 7 A

PANELBOARD SCHEDULE — HXB

LOCATION: STORAGE 141A | FED FROM: MDP-X

60 AMP MCB | 480/277 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 65 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	LTG CORRIDORS	0.9	0.7					LTG OLD BLDG	1	20 A	2
3	20 A	1	EXIT SIGNS			0.1	0.0			SPARE	1	20 A	4
5	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	6
7	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	8
9	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	10
11	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	12
13	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	14
15	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	16
17	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	18
				2 kVA		0 kVA		0 kVA					
				6 A		0 A		0 A					

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

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	1594 VA	125.00%	1993 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	0 VA	0.00%	0 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	0 VA	0.00%	0 VA

Panel Totals

Total Conn. Load: 1.6 kVA
Total Est. Demand: 2.0 kVA
Total Conn. Current: 2 A
Total Est. Demand Current: 2 A

EX PANELBOARD SCHEDULE — SVC

LOCATION: ELECTRICAL 121 | FED FROM: ATS-O

1200 AMP MCB | 480/277 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	2
3	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	4
5	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	6
7	--	1	SPACE ONLY	--	--					SPACE ONLY	1	--	8
9	--	1	SPACE ONLY			--	--			SPACE ONLY	1	--	10
11	--	1	SPACE ONLY					--	--	SPACE ONLY	1	--	12
13	--	1	SPACE ONLY	--	0.0								14
15						55.2	0.0			LP1 (EB)	3	225 A	16
17	400 A	3	**ATS-S (PB)**					55.2	0.0				18
19				55.2	2.6								20
21	--	1	SPACE ONLY			--	1.6			**ATS-X (CB)**	3	100 A	22
23								0.0	0.7				24
25	450 A	3	CHILLER 2 (EB)	0.0	28.2								26
27						0.0	27.6			T1 (EB)	3	175 A	28
29								36.8	27.6				30
31	400 A	3	MDPA (EB)	36.8	0.0								32
33						36.8	0.0			SURGE SUPPRESOR (EB)	3	20 A	34
35	--	1	SPACE ONLY					--	0.0				36
37	--	1	SPACE ONLY	--	41.1								38
39	--	1	SPACE ONLY			--	41.1			M (EB)	3	225 A	40
41								70.9	41.1				42
43	500 A	3	CHILLER 1 (EB)	70.9	42.1								44
45						70.9	39.6			**HK (CB)**	3	225 A	46
47	--	1	SPACE ONLY					--	40.8				48
				277 kVA		273 kVA		273 kVA					
				1000 A		985 A		986 A					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22. PROVIDE DED. NEUTRAL
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. PROVIDE DED. NEUTRAL
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR.
(CB) = CONNECT TO EXISTING SPARE BREAKER.
(EB) = EXISTING BREAKER
(RB) = REPLACE BREAKER WITH SIZE INDICATED
(PB) = PROVIDE BREAKER IN EXISTING SPACE

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	5902 VA	125.00%	7378 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	2520 VA	100.00%	2520 VA
HVAC	24700 VA	100.00%	24700 VA
AC / HEAT PUMP	2290 VA	100.00%	2290 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	113915 VA	65.00%	74045 VA
EXISTING LOAD	671647 VA	100.00%	671647 VA

Panel Totals

Total Conn. Load: 823.0 kVA
Total Est. Demand: 784.6 kVA
Total Conn. Current: 990 A
Total Est. Demand Current: 944 A

PANELBOARD SCHEDULE — HK

LOCATION: STORAGE 141A | FED FROM: SVC

225 AMP MCB | 480/277 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 65 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1				8.4	1.0					LTG KITCHEN, LAUNDRY, ELEC, DINING	1	20 A	2
3	125 A	3	T-K			6.9	14.3						4
5								8.1	14.3	DISHWASHER	3	70 A	6
7				12.5	14.3								8
9	60 A	3	COMBI OVEN			12.5	1.0						10
11								12.5	1.0	WASHER	3	15 A	12
13				1.0	1.0								14
15	15 A	3	WASHER			1.0	1.9						16
17								1.0	1.9	DRYER	3	15 A	18
19				1.9	1.9								20
21	15 A	3	DRYER			1.9	0.0			SPARE	1	20 A	22
23								1.9	0.0	SPARE	1	20 A	24
25	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	26
27	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	28
29	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	30
31	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	32
33	20 A	1	SPARE			0.0	0.0			SPARE	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	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	40
41	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	42
				42 kVA		40 kVA		41 kVA					
				153 A		143 A		148 A					

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

Load Classification	Connected Load	Demand Factor	Estimated Demand
INTERIOR LIGHTING	1030 VA	125.00%	1288 VA
EXTERIOR LIGHTING	0 VA	0.00%	0 VA
RECEPTACLES	1980 VA	100.00%	1980 VA
AC / HEAT PUMP	2290 VA	100.00%	2290 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	113915 VA	65.00%	74045 VA
MISCELLANEOUS	2050 VA	100.00%	2050 VA

Panel Totals

Total Conn. Load: 122.5 kVA
Total Est. Demand: 82.9 kVA
Total Conn. Current: 147 A
Total Est. Demand Current: 100 A

PANELBOARD SCHEDULE — LK

LOCATION: STORAGE 141A | FED FROM: T-K

225 AMP MCB | 120/208 Wye | 3 PH 4 W | MOUNT: SURFACE | PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A		B		C		LOAD	POLE	BRKR	CKT
1	20 A	1	DAMPERS	0.3	0.2					COMBI OVEN	1	15 A	2
3	20 A	1	EF-14			0.3	2.0			MOBILE HEATED CABINET	1	25 A	4
5	15 A	1	EF-15					0.3	2.0	MOBILE HEATED CABINET	1	25 A	6
7	15 A	1	REACH IN CABINET	0.9	1.1								8
9	15 A	1	MOBILE COLD UNIT			0.7	1.1			ICE MAKER	2	15 A	10
11								3.0	0.6				12
13	40 A	2	HOT FOOD SERVICE COUNTER	3.0	0.6					DISPOSER	3	15 A	14
15	20 A	1	EF-16			0.6	0.6						16
17	20 A	1	RECEPTACLES ROOM L101-1, L101-2					0.4	0.9	RECEPTACLES ROOM K103, K104	1	20 A	18
19	20 A	1	RECEPTACLES KITCHEN-2 K101-2	1.0	0.0					COOLER LTG	1	20 A	20
21						0.1	0.7						22
23	15 A	2	COOLER EVAP COIL					0.1	0.7	COOLER CONDENSING UNIT	3	15 A	24
25	20 A	1	GI CONTROL PANEL	0.5	0.7								26
27	20 A	1	DAMPERS			0.3	0.5			RPZ	1	20 A	28
29	20 A	1	REC ELEC 141A					0.2	0.0	SPARE	1	20 A	30
31	20 A	1	SPARE	0.0	0.0					SPARE	1	20 A	32
33	20 A	1	SPARE			0.0	0.0			SPARE	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	20 A	1	SPARE			0.0	0.0			SPARE	1	20 A	40
41	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	42
				8 kVA		7 kVA		8 kVA					
				71 A		58 A		69 A					

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

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	1980 VA	100.00%	1980 VA
AC / HEAT PUMP	2290 VA	100.00%	2290 VA
ELECTRIC HEAT	0 VA	0.00%	0 VA
KITCHEN	15904 VA	65.00%	10338 VA
MISCELLANEOUS	2050 VA	100.00%	2050 VA

Panel Totals

Total Conn. Load: 23.4 kVA
Total Est. Demand: 17.9 kVA
Total Conn. Current: 65 A
Total Est. Demand Current: 50 A

MOSELEYARCHITECTS
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER BRYAN C. MELTS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

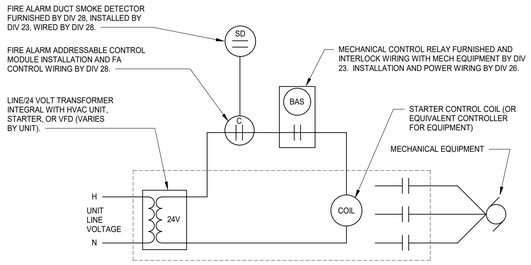
REVISIONS

DATE	DESCRIPTION

PANELBOARD SCHEDULES

E6.1

10/13/2025 8:37:51 PM



SYSTEMS WITH MULTIPLE MOTORS REQUIRE ONE SHUTDOWN RELAY FOR EACH STARTER OR VFD. THERE MAY BE MORE THAN ONE DUCT SMOKE DETECTOR PER SYSTEM, BUT ONLY ONE CONTROL MODULE IS REQUIRED PER MOTOR. SHUTDOWN IS VIA CONTROL MODULE, NOT VIA DUCT DETECTOR AUX CONTACTS. COORDINATE W/ DIV 23.

UNDER NORMAL CONDITIONS, FA SYSTEM POWERS THE NORMALLY OPEN FA CONTROL MODULE CONTACT TO THE CLOSED POSITION TO ALLOW NORMAL UNIT CONTROL BY BAS.

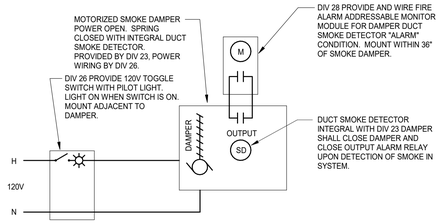
UPON ALARM SIGNAL FROM THE FIRE ALARM SYSTEM, THE CONTACTS IN THE FA SYSTEM RELEASES CONTROL MODULE TO OPEN POSITION, CAUSING SHUTDOWN OF ASSOCIATED HVAC EQUIPMENT. HVAC EQUIPMENT SHALL NOT BE OPERABLE UNTIL FA CONTROL MODULE IS RESET TO NORMAL CLOSED POSITION.

DIVISION 23 SHALL PROVIDE WIRING BETWEEN BETWEEN FA AND BAS CONTROL MODULES AND HVAC EQUIPMENT CONTROLLER (STARTER, VFD, OR INTEGRAL CONTROL PANEL).

SD

1 FIRE ALARM HVAC SHUTDOWN WIRING DIAGRAM - RTU-1 RTU-2 & CRU-1

FA0.1 — 1/8" = 1'-0"



NOTES:

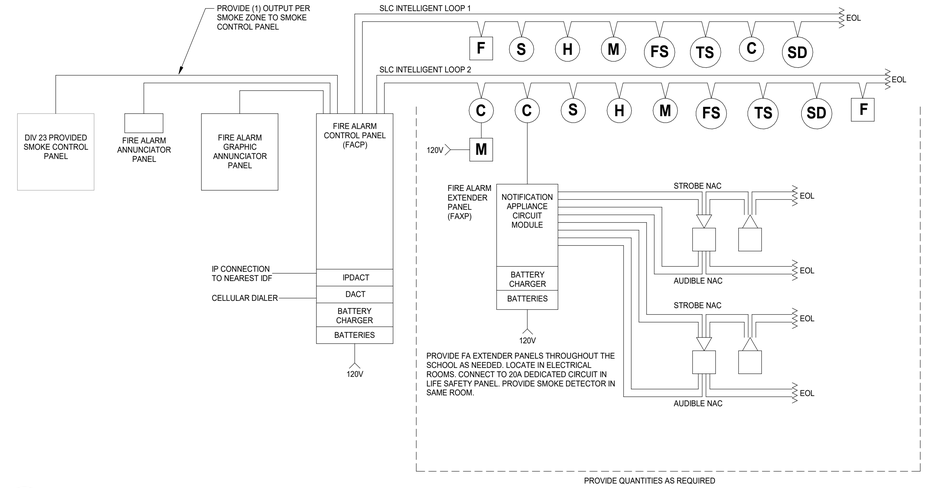
1. DUCT SMOKE DETECTOR INTEGRAL WITH DAMPER SHALL CLOSE DAMPER AND CLOSE OUTPUT ALARM RELAY UPON DETECTION OF SMOKE IN SYSTEM.
2. DIV 28 FIRE ALARM MONITOR MODULE SHALL CAUSE FIRE ALARM SYSTEM "TROUBLE" IF DAMPER DUCT SMOKE DETECTOR GOES TO "ALARM" STATUS.
3. VERIFY DAMPER LOCATIONS AND QUANTITY WITH DIV 23.

2 FIRE/SMOKE DAMPER & SMOKE DAMPER WIRING DIAGRAM

FA0.1 — 1/8" = 1'-0"

FIRE ALARM INPUT/OUTPUT MATRIX

		CONTROL UNIT ANNUNCIATION								NOTIFICATION / ACTION											
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE ALARM INDICATOR	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ANNUNCIATE AT GRAPHIC AND TEXT ANNUCIATORS	ACTUATE NOTIFICATION APPLIANCE	ACTUATE SPRINKLER FLOW BELL	DISPLAY CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING S TATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	REFER TO ELEVATOR RECALL AND SHUNT TRIP DIAGRAM	RELEASE DOOR MAGNETS TO ALLOW DOORS TO CLOSE	SHUT DOWN ASSOCIATED HVAC EQUIPMENT		
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S			
1	MANUAL PULL STATION	X	X	X					X	X		X	X				X				
2	SMOKE DETECTOR	X	X	X					X	X		X	X				X				
3	DUCT SMOKE DETECTOR RTU-1 RTU-2 & CRU-1	X			X				X			X		X				X			
4	HEAT DETECTOR	X	X	X					X	X		X	X				X				
5	KITCHEN HOOD FIRE SUPPRESSION SYSTEM MONITOR	X	X	X					X	X	X	X	X				X				
6	SPRINKLER SYSTEM WATERFLOW	X	X	X					X	X	X	X	X				X				
7	SPRINKLER VALVE TAMPER SWITCH				X	X			X			X		X							
8	MONITOR MODULE - GENERATOR FAILURE				X	X			X			X		X							
9	MONITOR MODULE - GENERATOR RUN						X	X	X			X		X							
10	FIRE ALARM AC POWER FAILURE						X	X	X			X			X						
11	FIRE ALARM SYSTEM LOW BATTERY						X	X	X			X			X						
12	FIRE ALARM OPEN CIRCUIT						X	X	X			X			X						
13	FIRE ALARM GROUND FAULT						X	X	X			X			X						
14	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT SHORT						X	X	X			X			X						
15	CARBON MONOXIDE DETECTOR				X	X			X			X		X							



3 FIRE ALARM RISER DIAGRAM

FA0.1 — 12" = 1'-0"

FIRE ALARM / SMOKE CONTROL MATRIX

EVENT ZONE	SMOKE DETECTOR SYSTEM ID TAG(S)	DUCT SMOKE DETECTOR SYSTEM ID TAG(S)	FLOW SWITCH SYSTEM ID TAG(S)	DAMPER		EQUIPMENT	
				FAN DAMPERS OPEN	SMOKE DAMPERS CLOSE	ON	OFF
SMOKE ZONE 1	REFER TO PLANS	DSD-AHU-7, DSD-AHU-8	N/A	D-AHU-70A, D-AHU-80A, D-SEF-7, D-SEF-8, D-SEF-7C,D-SEF-78C, D-EF-13S, D-SEF-9, D-IV-1	D-SEF-7R1, D-SEF-7R2, D-EF-13, D-SEF-8R1, D-SEF-8R2, D-AHU-7R, D-AHU-7E, D-AHU-8R, D-AHU-8E, FSD-1, FSD-2, FSD-3, FSD-4, FSD-5, FSD-6, FSD-7, FSD-8, FSD-9, FSD-10, & FSD-11	AHU-7, AHU-8, SEF-7, SEF-8, SEF-7C, SEF-78C, SEF-9	EF-13, RTU-1
SMOKE ZONE 2	REFER TO PLANS	DSD-AHU-4, DSD-AHU-5, DSD-AHU-6	N/A	D-AHU-40A, D-AHU-50A, D-AHU-60A, D-SEF-4, D-SEF-5, D-SEF-6	D-AHU-4R, D-AHU-4E, D-AHU-5R, D-AHU-5E, D-AHU-6R, D-AHU-6E	AHU-4, AHU-5, AHU-6, SEF-4, SEF-5, SEF-6	-
SMOKE ZONE 3	REFER TO PLANS	DSD-AHU-1, DSD-AHU-2, DSD-AHU-3	N/A	D-AHU-10A, D-AHU-20A, D-AHU-30A, D-SEF-1, D-SEF-2, & D-SEF-3	D-AHU-1R, D-AHU-1E, D-AHU-2R, D-AHU-2E, D-AHU-3R, D-AHU-3E	AHU-1, AHU-2, AHU-3, SEF-1, SEF-2, SEF-3	-

GENERAL NOTES:
A. THIS MATRIX IS ONLY FOR SMOKE CONTROL. REFER TO FIRE ALARM INPUT-OUTPUT MATRIX, BUILDING AUTOMATION CONTROL SYSTEM AND FIREFIGHTER SMOKE CONTROL PANEL DETAIL FOR COMPLETE OPERATION REQUIREMENTS.
B. FIREFIGHTERS MANUAL OVERRIDE PANEL SHALL CAUSE SMOKE CONTROL SYSTEM OPERATION AS INDICATED FOR A SMOKE DETECTOR IN THE AFFECTED ZONE, BUT SHALL NOT CAUSE ALARM CONDITION TO OCCUR (SUPERVISORY CONDITION SHALL OCCUR IN MANUAL OR OFF MODES).
C. FIRE ALARM PANEL SHALL PROVIDE (1) DESCRETE I/O OUTPUT, FOR EACH SMOKE ZONE, TO THE BUILDING AUTOMATION SYSTEM. ACTIVATION OF A DETECTOR OR MULTIPLE DETECTORS WITHIN EACH SMOKE ZONE SHALL INITIATE ALARM CONDITION OUTPUT TO BUILDING AUTOMATION SYSTEM.

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, INCLUDING ON ARCHITECTURAL ELEVATIONS. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.

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

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

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

F. REFER TO STRUCTURAL DRAWINGS FOR ALL CONDUIT REQUIREMENTS BEING PLACED IN CMU WALLS.

GENERAL DEMOLITION NOTES

A. PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE WORK.

B. REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION. ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.

C. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THE WORK.

D. BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.

E. EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.

F. DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.

G. DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
NOTE:	REFER TO 'TYPICAL DEVICE ELEVATION DETAIL ON E4 SERIES' FOR DEVICE MOUNTING RQMTS.
xx	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE. NUMBER INDICATES STROBE CANDELA RATING.
xx	FIRE ALARM VISUAL NOTIFICATION DEVICE. NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO NOTIFICATION DEVICE.
xx	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. NUMBER INDICATES STROBE CANDELA RATING.
xx	FIRE ALARM VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO NOTIFICATION DEVICE, CEILING MOUNTED.
F	FIRE ALARM MANUAL PULL STATION.
FK	FIRE ALARM KEY OPERATED MANUAL PULL STATION.
CO	CARBON MONOXIDE DETECTOR, CEILING MOUNT.
SCO	COMBINATION SMOKE DETECTOR / CARBON MONOXIDE, CEILING MOUNT.
H	HEAT DETECTOR, CEILING MOUNT.
S	SMOKE DETECTOR, CEILING MOUNT.
SD	FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
TS	FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
FS	FIRE ALARM FLOW SWITCH. PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
PI	POST INDICATOR VALVE SWITCH. PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
PS	FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 21, FURNISH AND CONNECT MONITOR MODULE TO MONITOR UNDER DIVISION 28.
RI	FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
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. PROVIDE CONCEALED 120-VOLT POWER CONNECTION
M	FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 24-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
M	FIRE ALARM MAGNETIC DOOR HOLDER, FLOOR MOUNT. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE, COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 24-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
	FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

SYMBOL VARIATIONS	DESCRIPTION
xx	WIRE GUARD FOR FIRE ALARM NOTIFICATION DEVICE. TYPE OF NOTIFICATION DEVICE MAY VARY.
xx	DEVICE COVER FOR FIRE ALARM NOTIFICATION DEVICE. NUMBER INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE COVER IS PRESENT. TYPE OF NOTIFICATION DEVICE MAY VARY.
	WIRE GUARD FOR FIRE ALARM INITIATION DEVICE. TYPE OF INITIATION DEVICE MAY VARY.
	SOUNDER BASE FOR FIRE ALARM INITIATION DEVICE. TYPE OF INITIATION DEVICE MAY VARY.
	FIRE ALARM WALL MOUNTED INITIATION DEVICE. TYPE OF INITIATION DEVICE MAY VARY.

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER BRIAN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 642088
DATE: OCTOBER 13, 2025

REVISIONS

DATE	DESCRIPTION

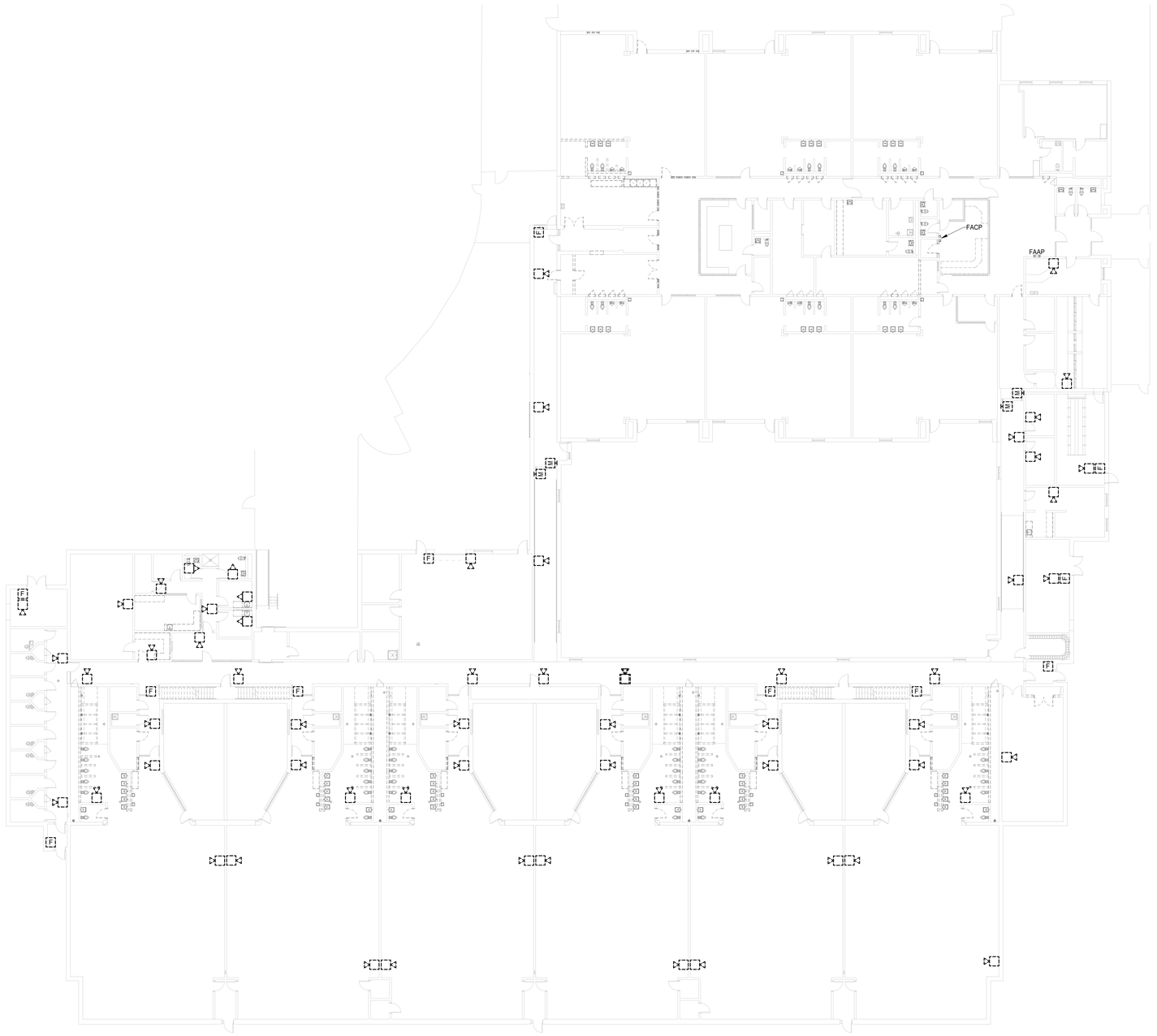
LEGEND, GENERAL NOTES, & DETAILS

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GENERAL NOTES

A. DISCONNECT & REMOVE ALL FIRE ALARM DEVICES, PANELS, POWER SUPPLIES, SMOKE CONTROL PANEL, AND ALL WIRING THROUGHOUT THE BUILDING TO ACCOMMODATE A COMPLETE REPLACEMENT OF THE EXISTING FIRE ALARM SYSTEM.



FIRST FLOOR PLAN - FIRE ALARM DEMOLITION
1/16" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 040202 10/13/25 ENGINEER BRYAN C. WELLS

DETENTION ANNEX RENOVATION

3400 Hammond Road, Raleigh, NC 27603
Wake County, North Carolina

PROJECT NO: 842088	
DATE:	OCTOBER 13, 2025
REVISIONS	
DATE	DESCRIPTION

SC
A B C
KEY PLAN

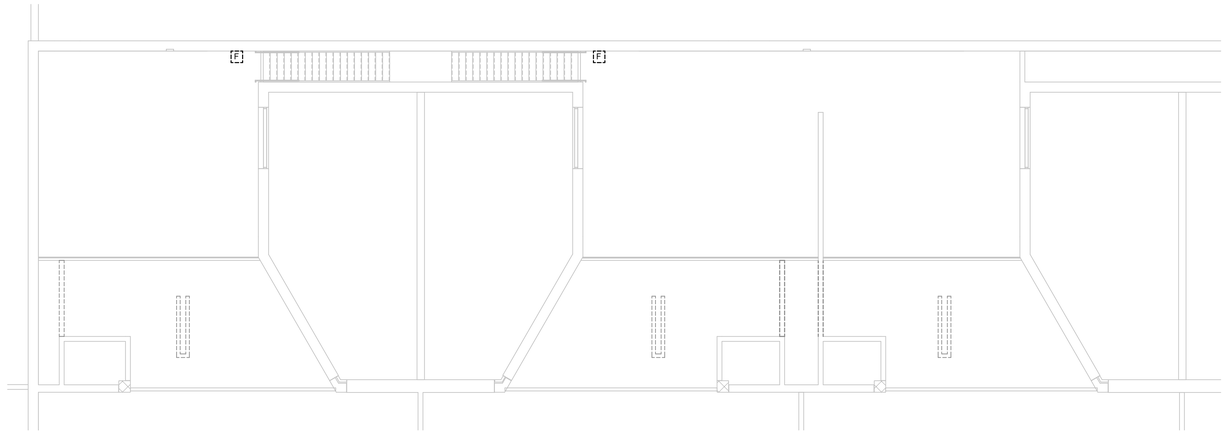
FIRST FLOOR PLAN - DEMOLITION - FIRE ALARM

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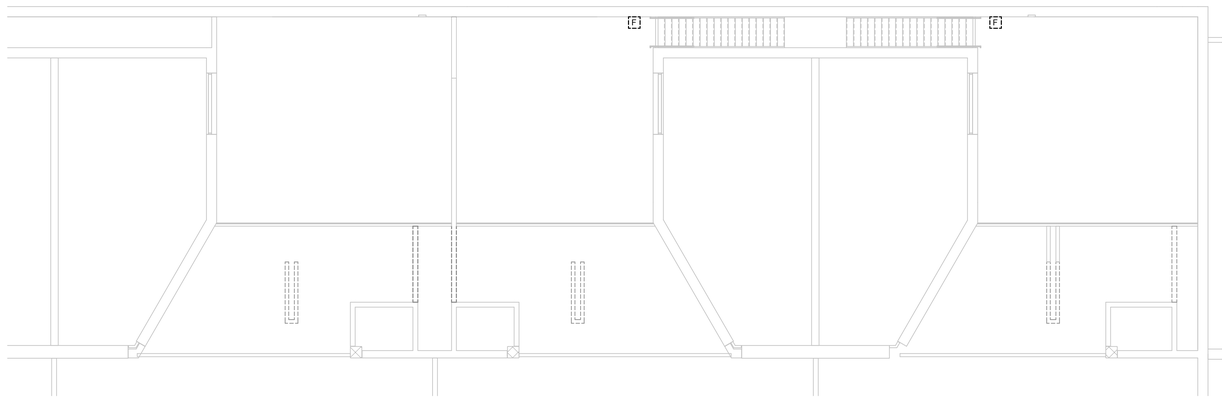
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GENERAL NOTES

A. DISCONNECT & REMOVE ALL FIRE ALARM DEVICES, PANELS, POWER SUPPLIES, SMOKE CONTROL PANEL, AND ALL WIRING THROUGHOUT THE BUILDING TO ACCOMMODATE A COMPLETE REPLACEMENT OF THE EXISTING FIRE ALARM SYSTEM.



MEZZANINE PLAN - FIRE ALARM DEMOLITION - PART A
1/8" = 1'-0"



MEZZANINE PLAN - FIRE ALARM DEMOLITION - PART B
1/8" = 1'-0"

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DETENTION ANNEX RENOVATION

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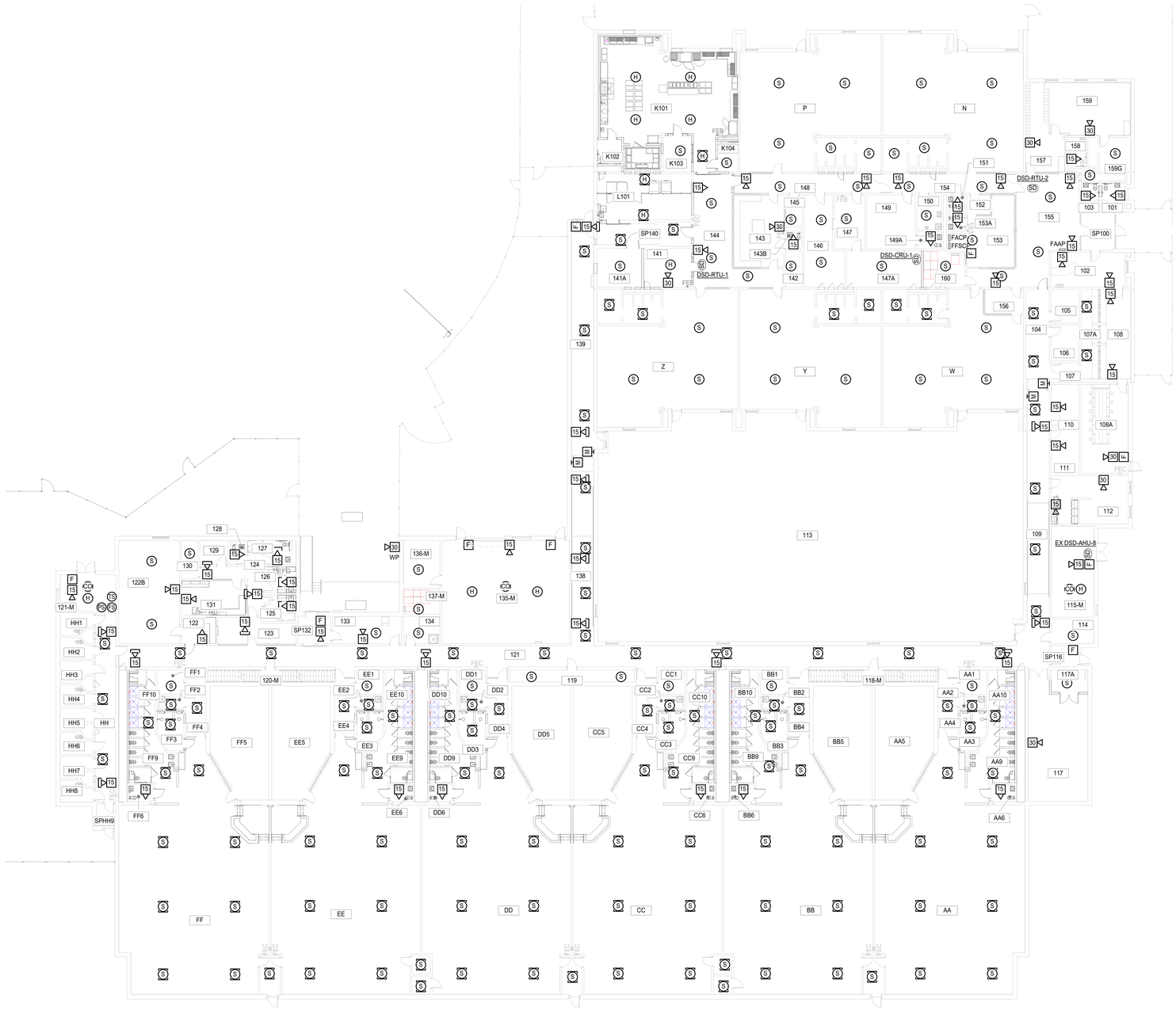
REVISIONS	
DATE	DESCRIPTION

SC C A B
KEY PLAN

MEZZANINE PLAN - DEMOLITION - FIRE ALARM

FA1.1.4

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FIRST FLOOR PLAN - FIRE ALARM

1/16" = 1'-0"

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DETENTION ANNEX RENOVATION

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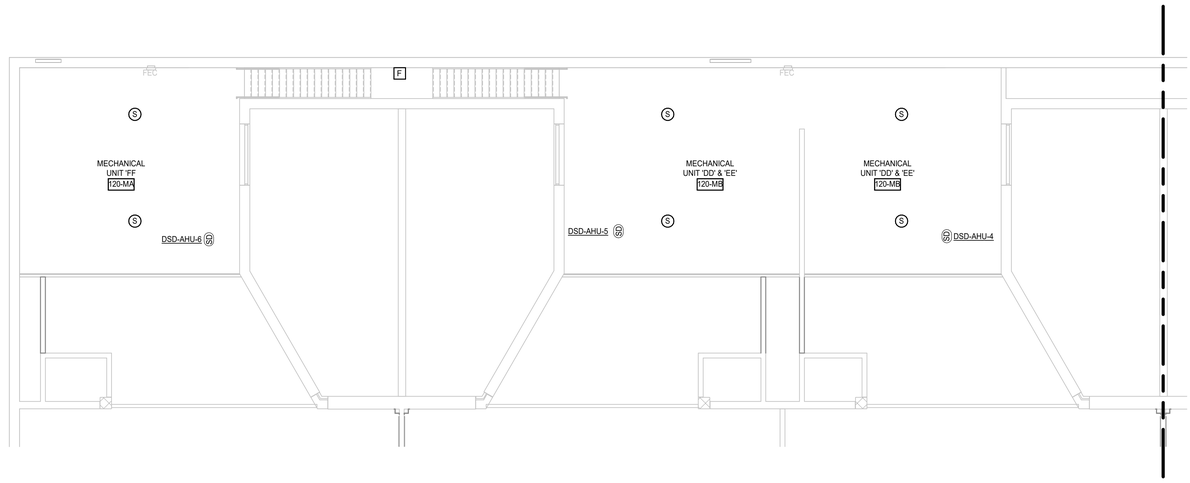
REVISIONS	
DATE	DESCRIPTION

SC
A B C
KEY PLAN

FIRST FLOOR PLAN - FIRE ALARM

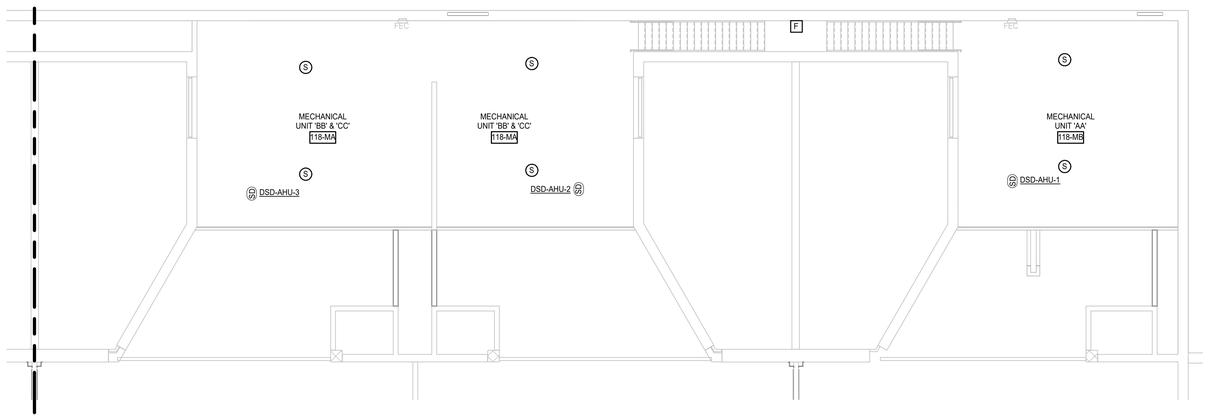
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MEZZANINE PLAN - FIRE ALARM - PART A

1/8" = 1'-0"



MEZZANINE PLAN - FIRE ALARM - PART B

1/8" = 1'-0"

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REVISIONS	
DATE	DESCRIPTION

SC C A B

KEY PLAN

MEZZANINE PLAN - FIRE ALARM

FA2.1.4

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