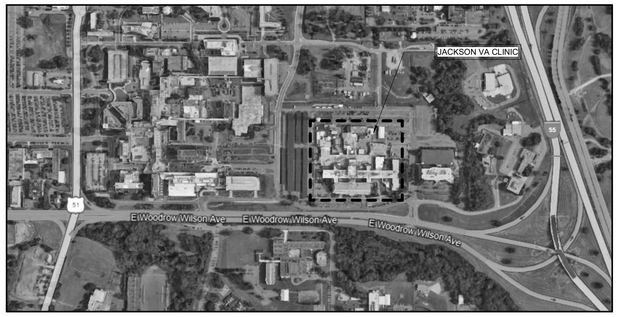
Docusign Envelope ID: B03CFFD6-4D75-44E6-906A-763AF02AA6C2

CLC RESIDENTIAL NEIGHBORHOOD

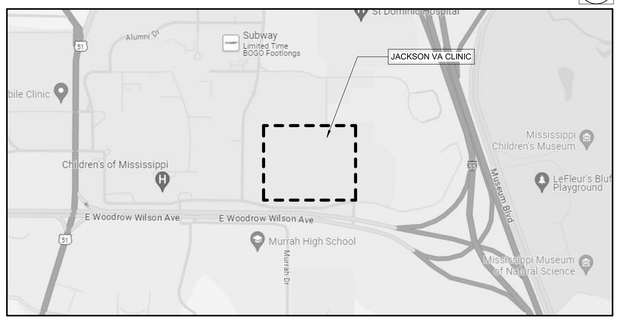
G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

VA PROJECT #: 586-401

PROJECT SITE MAP



PROJECT LOCATION MAP



STREET FACING BUILDING EXTERIOR PERSPECTIVE

DRAWING LIST - VOLUME 1

GENERAL			
G-001	COVER	1	7
G-002	GENERAL INFORMATION	2	7
G-003	CODE SUMMARY - NFPA 101	3	7
G-004	ICRA INFORMATION AND DETAILS	4	7
G-005	OVERALL SITE LOGISTICS PLAN	5	7
G-006	SITE LOGISTICS PLAN	6	7
GL101	GROUND FLOOR LIFE SAFETY PLAN	7	7
CIVIL			
CD101	CIVIL DEMOLITION PLAN	1	6
CS101	CIVIL SITE & UTILITY PLAN	2	6
CS102	CIVIL DEDUCT ALTERNATE SITE GRADING & UTILITY PLAN	3	6
CG101	GRADING & DRAINAGE PLAN	4	6
CG102	STORM AND SANITARY SEWER PROFILES	5	6
CS501	CIVIL DETAILS	6	6
LANDSCAPE			
LP101	LANDSCAPE PLAN	1	3
LP102	LANDSCAPE DEDUCTIVE ALTERNATE PLAN	2	3
LP501	LANDSCAPE DETAILS	3	3
STRUCTURAL			
S-001	STRUCTURAL SYMBOLS, ABBREVIATIONS AND NOTES	1	23
S-002	STRUCTURAL SCHEDULES	2	23
S-003	STRUCTURAL SCHEDULES	3	23
S-101	FOUNDATION PLAN	4	23
S-101.1	FOUNDATION PLAN - DEDUCT ALTERNATE #6	5	23
S-102	FOUNDATION WALL PLAN	6	23
S-102.1	FOUNDATION WALL PLAN - DEDUCT ALTERNATE #6	7	23
S-103	GROUND FLOOR PLAN	8	23
S-103.1	GROUND FLOOR PLAN - DEDUCT ALTERNATE #6	9	23
S-104	GROUND FLOOR WALL PLAN	10	23
S-104.1	GROUND FLOOR WALL PLAN - DEDUCT ALTERNATE #2, #6, #12	11	23
S-105	ROOF FRAMING PLAN	12	23
S-105.1	ROOF FRAMING PLAN - DEDUCT ALTERNATE #6	13	23
S-106	ROOF WALL FRAMING PLAN	14	23
S-106.1	ROOF WALL FRAMING PLAN - DEDUCT ALTERNATE #6	15	23
S-107	PERGOLA FOUNDATION PLAN	16	23
S-201	WALL SECTIONS	17	23
S-202	WALL SECTIONS	18	23
S-203	WALL SECTIONS	19	23
S-204	WALL SECTIONS - DEDUCT ALTERNATE #6	20	23
S-301	DETAILS	21	23
S-302	DETAILS	22	23
S-303	DETAILS	23	23
ARCHITECTURAL			
A-001	ARCHITECTURAL SYMBOLS, ABBREVIATIONS AND NOTES	1	35
AD101	GROUND AND FIRST FLOOR DEMOLITION PLANS	2	35
AD102	EXTERIOR ELEVATIONS & AXONOMETRIC DEMOLITION	3	35
AD103	TEMPORARY COURTYARD DEMOLITION AND ADDITION	4	35
AD104	EXTERIOR WALL SECTIONS AND DETAILS DEMOLITION	5	35
A-100	OVERALL SITE & FUTURE GROWTH PLAN	6	35
A-100.1	OVERALL SITE & FUTURE GROWTH PLAN - SITE DEDUCT ALTERNATES	7	35
A-101	GROUND FLOOR PLAN	8	35
A-101.1	GROUND FLOOR PLAN - DEDUCT ALTERNATES	9	35
A-102	GROUND FLOOR DIMENSION PLAN	10	35
A-103	EDGE OF SLAB PLANS	11	35
A-104	GROUND FLOOR REFLECTED CEILING PLAN	12	35
A-104.1	GROUND FLOOR REFLECTED CEILING PLAN - DEDUCT ALTERNATES	13	35
A-105	ROOF PLAN / ROOF DEDUCT ALTERNATES	14	35
A-201	EXTERIOR ELEVATIONS	15	35
A-201.1	EXTERIOR ELEVATIONS - DEDUCT ALTERNATES	16	35
A-301	BUILDING SECTIONS	17	35
A-301.1	BUILDING SECTIONS - DEDUCT ALTERNATES	18	35
A-302	WALL SECTIONS - SCREEN PORCH	19	35
A-303	WALL SECTIONS - WITH DEDUCT ALTERNATES	20	35
A-304	WALL SECTIONS - WITH DEDUCT ALTERNATES	21	35
A-305	WALL SECTIONS - WITH DEDUCT ALTERNATES	22	35
A-306	WALL SECTIONS	23	35
A-307	ENLARGED PLAN DETAILS	24	35
A-401	FENCE AND PILASTER DETAILS	25	35
A-421	ENLARGED TOILET PLANS AND ELEVATIONS	26	35
A-501	EXTERIOR DETAILS - PENETRATION AND ROOF DETAILS	27	35
A-502	EXTERIOR MASONRY DETAILS - BRICK ON MTL STUDS	28	35
A-503	EXTERIOR DETAILS - METAL PANEL ON MTL STUDS (WITH DEDUCT ALTERNATES)	29	35
A-510	PARTITION TYPES & INTERIOR DETAILS	30	35
A-511	COLUMN DETAILS	31	35
A-512	INTERIOR DETAILS	32	35
A-513	CEILING DETAILS	33	35
A-601	DOOR SCHEDULE, ELEVATIONS AND DETAILS	34	35
A-602	WINDOW ELEVATIONS	35	35
INTERIORS			
I-001	GENERAL NOTES, ABBREVIATIONS AND ROOM FINISH SCHEDULE	1	11
I-101	GROUND FLOOR FINISH AND WALL PROTECTION PLAN	2	11
I-131	GROUND FLOOR PATTERN PLAN	3	11
I-141	GROUND FLOOR SIGNAGE PLAN	4	11
I-201	CASEWORK AND MILLWORK ELEVATIONS	5	11
I-202	CASEWORK DETAILS	6	11
I-401	INTERIOR ELEVATIONS	7	11
I-411	GROUND FLOOR OVERALL EQUIPMENT PLAN	8	11
I-421	ENLARGED EQUIPMENT PLANS	9	11
I-422	ENLARGED EQUIPMENT PLANS	10	11
I-601	EQUIPMENT AND AQUISITION SCHEDULE	11	11
EQUIPMENT			
QH-101	VENDOR DRAWINGS - GULDMANN (FOR REFERENCE ONLY)	1	1

DRAWING LIST - VOLUME 2

GENERAL			
G-001.5	COVER	1	1
FIRE SUPPRESSION			
FX001	FIRE SUPPRESSION GENERAL INFORMATION	1	5
FX101	GROUND FLOOR FIRE SUPPRESSION PLAN	2	5
FX101.1	GROUND FLOOR FIRE SUPPRESSION PLAN - DEDUCT ALTERNATE	3	5
FX102	GROUND FLOOR FIRE SUPPRESSION REFLECTED CEILING PLAN	4	5
FX102.1	GROUND FLOOR FIRE SUPPRESSION REFLECTED CEILING PLAN - DEDUCT ALTERNATE	5	5
PLUMBING			
P-001	PLUMBING GENERAL INFORMATION	1	14
PW101	GROUND FLOOR DRAIN, WASTE, AND VENT PLAN	2	14
PP101	GROUND FLOOR DOMESTIC WATER PLAN	3	14
PG101	GROUND FLOOR MEDICAL GAS PLAN	4	14
PG102	GROUND FLOOR MEDICAL GAS PLAN	5	14
PW102	ROOF PLUMBING PLAN	6	14
P-401	ENLARGED PLUMBING PLANS AND PLUMBING SECTION	7	14
P-501	PLUMBING DETAILS	8	14
P-502	PLUMBING DETAILS	9	14
P-601	PLUMBING SCHEDULES	10	14
P-901	SANITARY PIPE RISERS	11	14
P-902	DOMESTIC PIPE RISERS	12	14
P-903	STORM PIPE RISERS	13	14
P-904	MEDICAL GAS PIPE RISERS	14	14
MECHANICAL			
M-001	MECHANICAL GENERAL INFORMATION	1	15
MH101	GROUND FLOOR HVAC PLAN	2	15
MH102	ROOF HVAC PLAN	3	15
MP101	GROUND FLOOR MECHANICAL PIPING PLAN	4	15
MP101.1	GROUND FLOOR MECHANICAL PIPING PLAN - DEDUCT ALTERNATE	5	15
M-301	MECHANICAL SECTIONS	6	15
M-401	ENLARGED MECHANICAL ROOM HVAC PLAN	7	15
M-402	ENLARGED MECHANICAL ROOM PIPING PLAN	8	15
M-402.1	ENLARGED MECHANICAL ROOM PIPING PLAN - DEDUCT ALTERNATE	9	15
M-501	MECHANICAL DETAILS	10	15
M-502	MECHANICAL DETAILS	11	15
M-503	MECHANICAL DETAILS	12	15
M-504	MECHANICAL CONTROLS	13	15
M-505	MECHANICAL CONTROLS	14	15
M-601	MECHANICAL SCHEDULES	15	15
ELECTRICAL			
E-001	ELECTRICAL GENERAL NOTES, SYMBOL LEGENDS, AND ABBREVIATIONS	1	13
ES101	SITE POWER AND LIGHTING PLAN	2	13
EL101	GROUND FLOOR LIGHTING PLAN	3	13
EP101	GENERATOR AND SWITCHGEAR ROOM AND PIPE BASEMENT POWER PLAN	4	13
EP102	PIPE BASEMENT EASTERN FLOOR OVERALL POWER PLAN	5	13
EP103	GROUND FLOOR POWER PLAN	6	13
EX101	ROOF LEVEL, LIGHTNING PROTECTION PLAN	7	13
EX102	EAST, NORTH, AND SOUTH LIGHTNING PROTECTION ELEVATIONS	8	13
E-401	ELECTRICAL ENLARGEMENTS	9	13
E-501	ELECTRICAL DETAILS	10	13
E-502	ELECTRICAL DETAILS	11	13
E-601	SINGLE LINE POWER DIAGRAM AND LIGHTING SCHEDULE	12	13
E-602	MECHANICAL EQUIPMENT CONNECTION & PANEL SCHEDULES	13	13
TECHNOLOGY			
T-001	TECHNOLOGY GENERAL NOTES, SYMBOL LEGEND, AND ABBREVIATIONS	1	7
TS101	TECHNOLOGY SITE PLAN	2	7
T-101	CLC GROUND FLOOR TECHNOLOGY PLAN	3	7
T-102	ROOF TECHNOLOGY PLAN	4	7
T-103	FIRST FLOOR TECHNOLOGY PLAN	5	7
T-501	TECHNOLOGY DETAILS	6	7
T-502	TECHNOLOGY DETAILS	7	7
FIRE ALARM			
FA001	FIRE ALARM GENERAL NOTES, SYMBOL LEGEND, AND RISER	1	3
FA101	CLC GROUND FLOOR FIRE ALARM PLAN	2	3
FA102	ROOF FIRE ALARM PLAN	3	3

VOLUME 2 OF 2

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

FORESITE group

Foresite Group, LLC
2128 Moores Mill Rd.
Suite C
Auburn, AL 36830

o | 334.887.6064
f | 334.887.6024
w | www.foresitegroup.net

KING CHOY
LICENSED ARCHITECT
11664
NORTH CAROLINA
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: COVER

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Approved

Date: JUNE 23, 2025 | Checked: KC | Drawn: JNL

Drawing Number: G-001.5

Dwg 1 of 1

6/18/2025 11:03:38 AM C:\Users\Jhonghurst\Documents\A_23-060-VA Jackson-Construct CLC_R23_jhonghurstSMAW1.rvt

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

NOTE:
MINIMUM SIZE OF OPENINGS AROUND SPRINKLER PIPE PENETRATIONS OF CONCRETE OR CMU WALLS SHALL BE IN ACCORDANCE WITH NFPA 13 SEISMIC REQUIREMENTS.

4 SPRINKLER PIPE SLEEVE THRU FIRE RATED WALL DETAIL

Scale: No Scale

1 MECHANICAL TEE AND FLUSHING CONNECTION DETAIL

Scale: No Scale

NOTE:
1. ALL EXPOSED PIPING SHALL BE PAINTED RED.
2. PROVIDE GUARDS ON UPRIGHT SPRINKLERS UNLESS OTHERWISE NOTED.

5 UPRIGHT AUTOMATIC SPRINKLER DETAIL

Scale: No Scale

NOTE:
HANGING DETAILS SHOWN ARE SUBJECT TO REQUIREMENTS OF SEISMIC DESIGN.

2 PIPE HANGER SUPPORT DETAIL

Scale: No Scale

NOTE:
1. ALL SPRINKLERS SHALL BE FM APPROVED QUICK RESPONSE.
2. ALL EXPOSED PIPING SHALL BE PAINTED RED.
3. USE FLEXIBLE SPRINKLER HEAD PIPE.

6 SEMI-RECESSED PENDENT SPRINKLER DETAIL

Scale: No Scale

NOTE:
1. PROVIDE SPRINKLER ABOVE AND BELOW DUCT OR OTHER OBSTRUCTION OVER 48" IN WIDTH.
2. COORDINATE SPRINKLER PIPE ROUTING AND LOCATION WITH COR AND ALL PARTIES INVOLVED WITH INSTALLATION OF THE OBSTRUCTION.
3. PROVIDE PIPE SUPPORTS THAT COMPLY WITH NFPA 13 REQUIREMENTS. INCLUDE COST OF ADDITIONAL SUPPORTS AS REQUIRED.
4. ATTACH PIPE SUPPORTS TO BUILDING STRUCTURE OR PROVIDE SUPPLEMENTAL STEEL ANCHOR POINTS. DO NOT ATTACH PIPE SUPPORTS TO DUCTWORK, PIPES, CONDUIT, OR EXISTING HANGER RODS FOR OTHER EQUIPMENT.

3 SPRINKLER ABOVE AND BELOW DUCT DETAIL

Scale: No Scale

FIRE PROTECTION WATER SUPPLY DEMAND ESTIMATE

DESIGN DATA:

PRIMARY OCCUPANCY:	BUSINESS
SYSTEM TYPE:	WET
OCCUPATION CLASSIFICATION:	ORD. GR. 1
DENSITY:	0.15 GPM/FT^2
AREA OF APPLICATION:	1500
MINIMUM SPRINKLER DEMAND:	225 GPM
HOSE STREAM DEMAND:	250 GPM
OVERFLOW FACTOR (10%):	22.5 GPM
TOTAL WATER REQUIRED (INCLUDING HOSE STREAMS):	497.5 GPM

FIRE SUPPRESSION SYMBOLS & ABBREVIATIONS

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT

Symbol	Description	Symbol	Description
—FS—	FIRE SUPPRESSION LINE	FPC	FIRE PROTECTION CONTRACTOR
—DRAIN—	FIRE DRAIN		EXTERIOR ALARM GONG (WATER ACTIVATED)
○	UPRIGHT SPRINKLER HEAD		BACKFLOW PREVENTER
⊙	SEMI-RECESSED SPRINKLER HEAD		CHECK VALVE
⊗	CONCEALED SPRINKLER HEAD		GATE VALVE
●	PENDANT SPRINKLER HEAD	T&D	TEST AND DRAIN ASSEMBLY
◀	SIDEWALL SPRINKLER HEAD	TS	TAMPER SWITCH
	FIRE DEPARTMENT CONNECTION (FDC)	FS	FLOW SWITCH
#	NEW WORK KEYNOTE		LIGHT HAZARD
#	DEMOLITION KEYNOTE		ORDINARY HAZARD GROUP 1 OCCUPANCY
	POINT OF NEW CONNECTION		ORDINARY HAZARD GROUP 2 OCCUPANCY
	LIMIT OF DEMOLITION	## / #	DETAIL MODULE NUMBER; DETAIL OR SECTION MARK; SHOWN ON DRAWING

BUILDING AND OCCUPANT SAFETY - INTERRUPTION OF FIRE PROTECTION SERVICE

1. DURING THE TIME THAT THE FIRE PROTECTION RENOVATION WORK IS BEING PERFORMED AND THE FIRE PROTECTION SYSTEM IS OUT OF COMMISSION, CONTRACTOR SHALL HAVE SUFFICIENT PERSONNEL ONSITE TO KEEP A "FIRE WATCH" ON THE FACILITY IN ACCORDANCE WITH VA REQUIREMENTS. AN OUT OF SERVICE TAG MUST BE PLACED AT THE FIRE ALARM PANEL AND THE FIRE DEPARTMENT CONNECTION. REFER TO INTERNATIONAL FIRE CODE CHAPTER 9, SECTION 901.7.
2. FIRE WATCH PERSONNEL ARE TO KEEP WATCH FOR FIRES IN THE GENERAL AREA OF PERFORMANCE - THE PERSONS PERFORMING THE FIRE WATCH ARE NOT PERMITTED TO PERFORM ANY OTHER DUTIES.
3. FIRE WATCH PERSONNEL ARE TO HAVE FIRE EXTINGUISHING EQUIPMENT READILY AVAILABLE AND TO BE TRAINED IN ITS USE.
4. THE QUANTITY OF PERSONNEL INVOLVED IN THE FIRE WATCH IS TO BE ADEQUATE SUCH THAT EACH FLOOR, LEVEL, AND ROOM OF THE FIRE AREA IS COVERED.
5. REPLACE CEILING TILES AT THE END OF EACH SHIFT FOR WORK AREAS OUTSIDE OF A RATED CONSTRUCTION BARRIER. IF THE TILES CANNOT BE REPLACED, THE SPRINKLER SYSTEM MAY BE CONSIDERED OUT OF SERVICE IN THESE AREAS AND 1-HOUR FIRE RATED SEPARATION WILL BE REQUIRED BETWEEN THE CONSTRUCTION AREA AND THE OCCUPIED PORTIONS OF THE BUILDING.

INFECTION CONTROL MEASURES

1. CONTRACTOR SHALL COMPLY WITH THE VA'S INFECTION CONTROL RISK ASSESSMENT REQUIREMENTS AND WRITTEN DUST CONTROL PLAN.
2. EXISTING AIR QUALITY REQUIREMENTS AND OTHER UTILITY REQUIREMENTS FOR OCCUPIED AREAS SHALL BE MAINTAINED.
3. RENOVATION AREAS SHALL BE ISOLATED FROM OCCUPIED AREAS DURING CONSTRUCTION USING AIRTIGHT BARRIERS. PROVIDE EXHAUST AIRFLOW IN A MANNER THAT SHALL BE SUFFICIENT TO MAINTAIN NEGATIVE AIR PRESSURE IN THE CONSTRUCTION ZONE. COORDINATE TEMPORARY BARRIERS WITH INTERIM LIFE SAFETY MEASURES.
4. FIRE PROTECTION SYSTEM REVISIONS SHALL BE PROPERLY PERFORMED TO LIMIT WATERBORNE OPPORTUNISTIC PATHOGENS.
5. CRUCIAL VENTILATION SPECIFICATIONS FOR AIR BALANCE AND FILTRATION SHALL BE VERIFIED BEFORE COR ACCEPTANCE.

ALTERNATE NOTES

BID DEDUCT ALTERNATE #1
ALL WORK IN CONTRACT EXCEPT CHANGE FENCE AND PYLONS TO METAL FENCE. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #2
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 AND SUBSTITUTE BRICK IN PLACE OF RAINSCREEN. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #3
ALL WORK IN CONTRACT EXCEPT DEDUCT #1, #2, AND REMOVE SCREEN SYSTEM AT FIRST-FLOOR PORCH. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #4
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #3 AND REMOVE SCREEN SYSTEM AT GROUND FLOOR PORCH. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #5
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #4 AND OMIT LANDSCAPE/HARDSCAPE IN THE SOUTHERN COURTYARD. SEE SHEET A101.1.
BID DEDUCT ALTERNATE #6
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #5 AND ELIMINATE SCREEN PORCH, INCLUDING ASSOCIATED LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, AND NOTIFICATION DEVICES. INSTALL LIGHT FIXTURE M1E AT DOUBLE DOORS EXITING THE BUILDING. INSTALL PULL STATION AT DOUBLE DOORS EXITING THE BUILDING. SEE SHEETS EL101, EP101, AND FA101.
BID DEDUCT ALTERNATE #7
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #6 AND ELIMINATE LANDSCAPE LIGHTING, INCLUDING LIGHT FIXTURES AND LIGHTING CONTROLS. SEE SHEET ES101.
BID DEDUCT ALTERNATE #8
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #7 AND OMIT CANOPIES. SEE SHEET A-105.
BID DEDUCT ALTERNATE #9
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #8 AND ELIMINATE NORTH COURTYARD. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #10
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #9 AND REDUCE LANDSCAPING, TREE, AND SHRUB CALIPERS. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #11
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #10 AND ELIMINATE THIRD CHILLER, INCLUDING ASSOCIATED BREAKER, DISCONNECT, AND WIRING. SEE SHEET E-401.
BID DEDUCT ALTERNATE #12
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #11 AND MOVE CEILING LIFTS TO ACTIVATION BUDGET. SEE SHEET A-104.1.
BID DEDUCT ALTERNATE #13
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #12 AND PLACE WINDOW SHADES IN THE ACTIVATION BUDGET.
BID DEDUCT ALTERNATE #14
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #13 AND ELIMINATE WINDOW SOFFITS AND SOLID SURFACE SILLS. SEE SHEET A-512 DETAIL 10.
BID DEDUCT ALTERNATE #15
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #14 AND SHELL FIVE RESIDENT ROOMS. INSTALL ELECTRICAL WIRING, BOXES, SWITCHES AS SHOWN, EXCLUDING LIGHT FIXTURES C1 AND D2. INSTALL LIGHT FIXTURE F1 AND CIRCUIT TO WALL SWITCH PER DETAIL 5/E-401. SEE SHEET EL101.
BID DEDUCT ALTERNATE #16
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #15 AND ELIMINATE BENCHES. SEE SHEET A-101.1.

FIRE SUPPRESSION DEMOLITION GENERAL NOTES

1. LOCATIONS SHOWN FOR EXISTING FIRE PROTECTION PIPE AND EQUIPMENT ARE APPROXIMATE. FIELD VERIFY THE EXACT LOCATIONS OF EXISTING FIRE PROTECTION LINES AND EQUIPMENT INCLUDING RISERS AND VALVES PRIOR TO START OF WORK.
2. COORDINATE WITH COR FOR ANY SHUTDOWNS OR PLANNED INTERRUPTIONS OF THE FIRE PROTECTION SERVICE. GIVE THE COR THREE (3) DAYS NOTICE PRIOR TO PLANNED SHUTDOWN OR INTERRUPTION.

FIRE SUPPRESSION GENERAL NOTES

1. USE NFPA-13 (CURRENT EDITION), "PLANS AND CALCULATIONS CHAPTER" AS A GUIDELINE WHEN PREPARING SUBMITTALS FOR REVIEW. DISREGARD ONLY THOSE ITEMS NOT APPLICABLE TO THE INDIVIDUAL BUILDING SYSTEM. FIRE PROTECTION MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 FOR THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM.
2. INSTALLATION SHALL COMPLY WITH NFPA AND VA REQUIREMENTS.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ROOM FINISH SCHEDULE WHICH INDICATE CEILING HEIGHTS. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN FOR LOCATION OF SPRINKLER HEADS IN AREAS WITH CEILINGS. LOCATE HEADS IN AREAS WITHOUT CEILINGS AS REQUIRED BY NFPA AND VA REQUIREMENTS FOR THE APPROPRIATE HAZARD CLASSIFICATION.
4. THIS FACILITY IS FULLY SPRINKLERED. FIRE SUPPRESSION SYSTEM SHALL BE WET PIPE TYPE SYSTEM WITH COMPLETE SPRINKLER PROTECTION UNLESS NOTED OTHERWISE. SYSTEM TO BE DESIGNED AS REQUIRED BY NFPA AND VA REQUIREMENTS FOR THE APPROPRIATE HAZARD CLASSIFICATION.
5. SPRINKLER HEAD LAYOUTS INDICATED ARE BASED ON OCCUPANCY HAZARD CLASSIFICATIONS OUTLINED IN NFPA-13 AND VA STANDARDS.
6. HYDRAULICALLY CALCULATE SPRINKLER DEMAND IN ACCORDANCE WITH REQUIREMENTS FOR APPROPRIATE HAZARD OCCUPANCY. PROVIDE ACTUAL NUMBER OF HEADS, REQUIRED SPACING AND PIPE ROUTING AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS AND OTHER TRADES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH NFPA AND VA REQUIREMENTS.
7. FIRE PROTECTION CONTRACTOR SHALL OBTAIN FLOW TEST DATA INDICATING THE WATER FLOW, STATIC PRESSURE AVAILABLE WITH NO FLOW, AND RESIDUAL PRESSURE AT FULL FLOW TO THE FACILITY. SUBMIT HYDRAULIC CALCULATIONS AND PLANS RELATED TO A MINIMUM OF 1 REMOTE AREA FOR REVIEW.
8. PIPING IS SHOWN IN SCHEMATIC FORM TO INDICATE APPROXIMATE ARRANGEMENT OF EQUIPMENT AND PIPING. SPRINKLER CONTRACTOR SHALL DESIGN THE SYSTEM AND ROUTE PIPING AS REQUIRED FOR CONFORMANCE WITH ACTUAL BUILDING CONDITIONS AND NFPA REQUIREMENTS. COORDINATE SPRINKLER WORK WITH ALL OTHER TRADES TO AVOID CONFLICT.
9. SUPPORT NEW PIPING AND EQUIPMENT FROM STRUCTURE. PROVIDE ALL SUPPLEMENTAL STEEL TO SPAN BETWEEN PRIMARY BUILDING STRUCTURAL MEMBERS. DESIGN SUPPLEMENTAL STEEL AND SUPPORTS INCLUDING REACTION LOADS AT PRIMARY BUILDING STRUCTURAL MEMBERS.
10. PROVIDE SPRINKLER HEADS IN CONCEALED LOCATIONS IN ACCORDANCE WITH NFPA REQUIREMENTS.
11. CLEAN ENTIRE WORK AREA OF ALL DUST, DIRT, AND OTHER DEBRIS. MAINTAIN WORK AREA IN CLEAN CONDITION.
12. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC. REQUIRED FOR COMPLETE AND FUNCTIONAL SYSTEM AS SPECIFIED AND INDICATED ON THE DRAWINGS.
13. SUBMIT ONE COMPLETE SET OF AUTOMATIC SPRINKLER SYSTEM DRAWINGS, HYDRAULIC CALCULATIONS, CURRENT WATER FLOW TEST, AND THE EQUIPMENT DATA BROCHURES PREPARED BY OR UNDER THE SUPERVISION OF, AND SEALED BY A PROFESSIONAL ENGINEER.
14. REPAIR OR REPLACE NON-CONFORMING AND INADEQUATE WORK AT NO ADDITIONAL COST TO THE VA.
15. PROVIDE FIRE STOPS / SEALANT AT ALL PIPE PENETRATIONS THROUGHOUT FIRE RATED WALLS. REVIEW ARCHITECTURAL PLANS PRIOR TO BIDDING AND INDICATE PENETRATIONS ON SPRINKLER LAYOUT SUBMITTAL.
16. FLOW AND TAMPER SWITCHES ARE TO BE PURCHASED AND INSTALLED AS WORK OF DIVISION 21. PROVIDE WIRING TO FLOW AND TAMPER SWITCHES AS WORK OF DIVISION 26.
17. WATER SERVICE AND DETECTOR TYPE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER TO BE PROVIDED AND TESTED AS WORK OF DIVISION 22. INCORPORATE ASSOCIATED PRESSURE DROP OF SELECTED BACKFLOW PREVENTER DEVICE IN HYDRAULIC CALCULATIONS.
18. FURNISH AND INSTALL ARMOVER SUPPORTS FOR ALL END OF LINE BRANCH LINES IN ACCORDANCE WITH NFPA-13.
19. ALL DROPS TO SPRINKLER HEADS SHALL TEE / ELBOW OFF TOP OF BRANCH PIPE, EXCEPT WHERE STRUCTURAL, ARCHITECTURAL OR MECHANICAL EQUIPMENT CONDITIONS PRECLUDE CONNECTION AT TOP OF PIPE.
20. SPRINKLER HEADS SHALL BE IN A SYMMETRICAL PATTERN, NOT NECESSARILY IN THE CENTER OF ROOMS OR CORRIDORS. LOCATE CENTERED IN CEILING TILE WHERE POSSIBLE.
21. LOCATE THE INSPECTOR'S TEST CONNECTION AND MAIN DRAIN LOCATIONS IN ACCORDANCE WITH NFPA-13.
22. FIRE DEPARTMENT CONNECTION SHALL BE LOCATED NOT MORE THAN 100 FEET AWAY FROM THE NEAREST FIRE HYDRANT CONNECTED TO AN APPROVED WATER SUPPLY AND SHALL BE LOCATED NOT LESS THAN 18 INCHES, NOR MORE THAN 48 INCHES ABOVE ADJACENT SURFACE.
23. STANDPIPES SHALL BE PROVIDED IN EACH REQUIRED EGRESS STAIRWAY, WITH 4 INCH DIAMETER MINIMUM SIZE.
24. CLASS 1 SYSTEM SHALL BE PROVIDED WITH 2 1/2 INCH HOSE CONNECTIONS AT EACH INTERMEDIATE LANDING BETWEEN FLOORS IN EACH REQUIRED EGRESS EXIT STAIRWAY. COORDINATE TYPE OF HOSE CONNECTIONS WITH THE LOCAL FIRE DEPARTMENT.
25. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL TESTING ASSOCIATED WITH FIRE PROTECTION SYSTEM COMMISSIONING PER SPECIFICATIONS.

WALL RATING LEGEND

- —◆◆—◆◆—◆◆— 2 HOUR FIRE SEPARATION
- —◆—◆—◆— 1 HOUR FIRE SEPARATION
- —S—S—S— SMOKE RATED

FLOW TEST INFORMATION

STATIC PSI	RESIDUAL PSI	FLOW GPM	DATE	LOCATION	FLOW TEST PERFORMED BY
84	76	1186	08/27/2022	FIRE HYDRANT FIVE	CAPITOL CHLORINATOR & UTILITY SERVICE, INC.

THE FLOW TEST INFORMATION LISTED ABOVE IS INTENDED AS A REFERENCE FOR THE FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A HYDRAULIC FLOW TEST NEAR THE PROJECT SITE TO VERIFY ACTUAL FLOW CONDITIONS ON WHICH TO BASE THE FIRE PROTECTION DESIGN.

THE FIRE PROTECTION DRAWING IS DESIGNED TO BE IN CONFORMANCE WITH NFPA 13. IT IS A PERFORMANCE BASED DRAWING INDICATING THE EXTENT OF FIRE PROTECTION WORK FOR THE AREA THAT THIS DRAWING REPRESENTS. THIS DRAWING IS "FOR INFORMATION ONLY", AS A REFERENCE FOR THE FIRE PROTECTION CONTRACTOR TO BASE THE DESIGN OF THE FIRE PROTECTION SYSTEM ON. THE CONTRACTOR SHALL VERIFY THE EXACT CONDITIONS THAT THIS DRAWING REPRESENTS, INCLUDING ANY PERCEIVED CONCEALED SPACES, AND THE BUILDING TYPE AND CONSTRUCTION AS OUTLINED IN THE INTERNATIONAL BUILDING CODE, PRIOR TO THE START OF WORK. REFER TO NFPA 13, AND THE PROJECT SPECIFICATIONS FOR OTHER FIRE PROTECTION REQUIREMENTS.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420
© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	FIRE SUPPRESSION GENERAL INFORMATION
Project Title	CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER	586-401
Building Number	# 7A
Location	G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Approved	
Date	JUNE 23, 2025
Checked	WRS
Drawn	TB
Drawing Number	FX001
Dwg	1 of 5

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 3:59:21 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

1 GROUND FLOOR FIRE SUPPRESSION PLAN

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

0 4 8 16 NORTH

SHEET NOTES:

A. PROVIDE NEW SPRINKLERS HEADS AS PER NEW LAYOUT.

B. PROVIDE NEW MAINS FOR THE NEW ADDITION, AND NEW BRANCH PIPING AS REQUIRED FOR NEW LAYOUT.

C. EXISTING FIRE AND SMOKE ZONES SHALL BE MAINTAINED.

D. UNLESS OTHERWISE NOTED, SPACES ARE LIGHT HAZARD CLASSIFICATION.

E. FOR HAZARD CLASSIFICATION REFER TO SPECIFICATIONS.

KEY NOTES:

1 THIS ROOM SHALL BE CONSIDERED ORDINARY HAZARD, GROUP 1.

2 THIS ROOM SHALL BE CONSIDERED ORDINARY HAZARD, GROUP 2.

3 CONNECT NEW FIRE SPRINKLER LINE TO THE 4" EXISTING FIRE SPRINKLER RISER IN THE GROUND FLOOR CEILING. PROVIDE NEW FIRE SPRINKLER ZONE, NEW ZONE VALVE, AND TAMPER SWITCH. PERFORM HYDRAULIC CALCULATIONS. REFER T0 HYDRANT FLOW TEST DATA ON SHEET FX001.

SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

EXISTING SMOKE COMPARTMENT

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY JR. REGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	GROUND FLOOR FIRE SUPPRESSION PLAN
Project Title	CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER	586-401
Building Number	# 7A
Location	G.V. MONTGOMERY VAMC 1500 E. WOODROW WILSON AVENUE JACKSON, MS 39216
Approved	
Date	JUNE 23, 2025
Checked	WRS
Drawn	TB
Drawing Number	FX101
Dwg	2 of 5

6/16/2025 3:59:30 PM C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudair.rvt

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

1 GROUND FLOOR FIRE SUPPRESSION PLAN - DEDUCT ALTERNATE

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

0 4 8 16 NORTH

SHEET NOTES:

A. PROVIDE NEW SPRINKLERS HEADS AS PER NEW LAYOUT.

B. PROVIDE NEW MAINS FOR THE NEW ADDITION, AND NEW BRANCH PIPING AS REQUIRED FOR THE NEW LAYOUT.

C. EXISTING FIRE AND SMOKE ZONES SHALL BE MAINTAINED.

D. UNLESS OTHERWISE NOTED, SPACES ARE LIGHT HAZARD CLASSIFICATION.

E. FOR HAZARD CLASSIFICATION REFER TO SPECIFICATIONS.

KEY NOTES:

1 THIS ROOM SHALL BE CONSIDERED ORDINARY HAZARD, GROUP 1.

2 THIS ROOM SHALL BE CONSIDERED ORDINARY HAZARD, GROUP 2.

3 CONNECT NEW FIRE SPRINKLER LINE TO THE 4" EXISTING FIRE SPRINKLER RISER IN THE GROUND FLOOR CEILING. PROVIDE NEW FIRE SPRINKLER ZONE, NEW ZONE VALVE, AND TAMPER SWITCH. PERFORM HYDRAULIC CALCULATIONS. REFER TO HYDRANT FLOW TEST DATA ON SHEET FX001.

SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

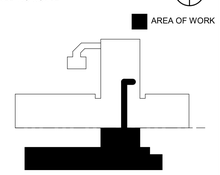
EXISTING SMOKE COMPARTMENT

DEDUCT ALTERNATE NOTES

GC TO REFER TO DEDUCT ALTERNATE LIST ON SHEET FX001 AND COORDINATE ACCORDINGLY.

KEY PLAN

SCALE: NO SCALE



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY JR. REGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR FIRE SUPPRESSION PLAN - DEDUCT ALTERNATE

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved:

Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

Drawing Number: FX101.1

Dwg 3 of 5

6/16/2025 3:59:36 PM C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudlar.rvt

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

1 **GROUND FLOOR FIRE SUPPRESSION REFLECTED CEILING PLAN**
Scale: 1/8" = 1'-0"

0 4 8 16 NORTH

SHEET NOTES:

A. PROVIDE NEW SPRINKLERS HEADS AS PER NEW LAYOUT.

B. PROVIDE NEW MAINS FOR THE NEW ADDITION, AND NEW BRANCH PIPING AS REQUIRED FOR THE NEW LAYOUT. SEE FX101.

C. EXISTING FIRE AND SMOKE ZONES SHALL BE MAINTAINED.

D. ALL AIR TERMINALS AND LIGHTING FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE CORRESPONDING MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEY NOTES:

1 PROVIDE NEW SEMI-RECESSED QUICK RESPONSE SPRINKLER HEADS PER NEW LAYOUT. SEE DETAIL 6/FX001.

2 PROVIDE NEW UPRIGHT SPRINKLER HEADS PER NEW LAYOUT. SEE DETAIL 5/FX001.

SCOPE OF WORK LEGEND

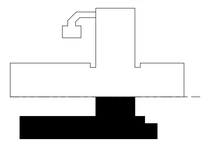
NOT IN SCOPE

IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY, REGISTERED, No. 12100087, STATE OF INDIANA, PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

© COPYRIGHT Apogee Consulting Group, P.A.

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR FIRE SUPPRESSION REFLECTED CEILING PLAN

Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date	Checked	Drawn
JUNE 23, 2025	WRS	TB

VA PROJECT NUMBER 586-401

Building Number # 7A

Drawing Number FX102

Dwg 4 of 5

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 3:59:39 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

1 **GROUND FLOOR FIRE SUPPRESSION REFLECTED CEILING PLAN - DEDUCT ALTERNATE**
Scale: 1/8" = 1'-0"

0 4 8 16 NORTH

SHEET NOTES:

A. PROVIDE NEW SPRINKLERS HEADS AS PER NEW LAYOUT.

B. PROVIDE NEW MAINS FOR THE NEW ADDITION, AND NEW BRANCH PIPING AS REQUIRED FOR THE NEW LAYOUT. SEE FX101.1.

C. EXISTING FIRE AND SMOKE ZONES SHALL BE MAINTAINED.

D. ALL AIR TERMINALS AND LIGHTING FIXTURES ARE SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE CORRESPONDING MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEY NOTES:

1 PROVIDE NEW SEMI-RECESSED QUICK RESPONSE SPRINKLER HEADS PER NEW LAYOUT. SEE DETAIL 6/FX001.
2 PROVIDE NEW UPRIGHT SPRINKLER HEADS PER NEW LAYOUT. SEE DETAIL 5/FX001.
3 IN DEDUCT AREA PROVIDE NEW UPRIGHT SPRINKLER HEADS PER NEW LAYOUT FOR DEDUCT #15 ONLY.

SCOPE OF WORK LEGEND

NOT IN SCOPE

IN SCOPE

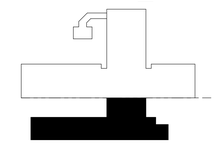
DEDUCT ALTERNATE NOTES

GC TO REFER TO DEDUCT ALTERNATE LIST ON SHEET FX001 AND COORDINATE ACCORDINGLY.

KEY PLAN

SCALE: NO SCALE

AREA OF WORK



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY, REGISTERED PROFESSIONAL ENGINEER, No. 12100087, STATE OF INDIANA

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR FIRE SUPPRESSION REFLECTED CEILING PLAN - DEDUCT ALTERNATE

Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date	Checked	Drawn
JUNE 23, 2025	WRS	TB

VA PROJECT NUMBER 586-401

Building Number # 7A

Drawing Number FX102.1

Dwg 5 of 5

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 3:59:43 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

PLUMBING ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	F	FAHRENHEIT	O2	OXYGEN
AC	ABOVE CEILING	FA	FROM ABOVE	OC	ON CENTER
AD	AREA DRAIN	FB	FROM BELOW	OD	OUTSIDE DIAMETER
AFF	ABOVE FINISHED FLOOR	FBO	FURNISHED BY OTHERS	OSD	OVERFLOW STORM DRAIN
AG	AIR GAP	FCO	FLOOR CLEANOUT	OR	OPERATING ROOM
AP	ACCESS PANEL	FCW	FILTERED COLD WATER	OVFL	OVERFLOW
AS	AUTOMATIC SPRINKLER	FD	FLOOR DRAIN		
AFG	ABOVE FINISHED GRADE	FDC	FIRE DEPARTMENT (HOSE)	PA	PASCAL
ASD	ADJUSTABLE SPEED DRIVE		CONNECTION	PC	PLUMBING CONTRACTOR
ASHRAE	AMERICAN SOCIETY HEATING,	FM	FLOW METER	PD	PRESSURE DROP
	REFRIGERATING, AIR CONDITIONING	FOP	FUEL OIL PUMP	PDI	PLUMBING AND DRAINAGE INSTITUTE
	ENGINEERS	FOR	FUEL OIL RETURN	PG	PRESSURE GAUGE
ASME	AMERICAN SOCIETY OF MECHANICAL	FOS	FUEL OIL SUPPLY	PP	PLUMBING PUMP
	ENGINEERS	FOV	FUEL OIL VENT	PPM	PARTS PER MILLION
ASPE	AMERICAN SOCIETY PLUMBING	FS	FLOOR SINK	PRS	PRESSURE REDUCING STATION
	ENGINEERS	FU	FIXTURE UNITS	PRV	PRESSURE REDUCING VALVE
ASR	AUTOMATIC SPRINKLER RISER			PSI	POUNDS PER SQUARE INCH
AV	ACID VENT	G	GALLON	PSIA	POUNDS PER SQUARE INCH -
AW	ACID WASTE	GC	GENERAL CONTRACTOR		ABSOLUTE
		GCO	GRADE CLEANOUTS	PSIG	POUNDS PER SQUARE INCH - GAUGE
BAS	BUILDING AUTOMATION SYSTEM	GD	GARBAGE DISPOSAL	PTRV	PRESSURE TEMPERATURE RELIEF
BF	BELOW FLOOR	GPD	GALLONS PER DAY		VALVE
BFP	BACKFLOW PREVENTER	GPH	GALLONS PER HOUR	PW	POTABLE WATER
BG	BELOW GRADE	GPM	GALLONS PER MINUTE		
BH	BOOSTER HEATER	GPR	GAS PRESSURE REGULATOR	RD	ROOF DRAIN
BHP	BREAK HORSEPOWER	GRS	GAS REGULATOR STATION	RDL	ROOF DRAIN LEADER
BJ	BETWEEN JOISTS	GT	GREASE TRAP	RL	ROOF LEADER
BOP	BOTTOM OF PIPE	GVTR	GAS VENT THROUGH ROOF	RO	REVERSE OSMOSIS
BSP	BLACK STEEL PIPE	GWH	GAS FIRED WATER HEATER	RWL	RAIN WATER LEADER
BT	BATHTUB				
BTUH	BRITISH THERMAL UNITS PER HOUR	H&CW	HOT AND COLD WATER	SAN	SANITARY SEWER
		HB	HOSE BIBB (INTERIOR)	SCFM	STANDARD CUBIC FOOT/MIN
C	CELSIUS	HD	HUB DRAIN	SCW	SOFTENED COLD WATER
CF	COMBINATION FIXTURE	HEX	HEAT EXCHANGER	SD	STORM DRAIN
CGA	COMPRESSED GAS ASSOCIATION	HP	HORSEPOWER	SDMH	STORM DRAIN MANHOLE
CI	CAST IRON	HS	HAND SINK	SP	SUMP PUMP
CO	CLEANOUT	HST	HOT WATER STORAGE TANK	SPR	SPRINKLER LINE
COND	CONDENSATE		(DOMESTIC)	SQFT	SQUARE FOOT
CP	CONDENSATE PUMP	HWB	HOT WATER BOILER	SS	STAINLESS STEEL
CS	CLINICAL SINK	HWCP	HOT WATER CIRCULATING PUMP	ST	STORAGE TANK
CV	CONTROL VALVE	HWP	HOT WATER PUMP	SW	STORM WATER
		HYD	HYDRANT		
DA	DENTAL COMPRESSED AIR			TCV	TEMPERATURE CONTROL VALVE
DCW	DOMESTIC COLD WATER	ICW	INDUSTRIAL COLD WATER	TD	TRENCH DRAIN
DHW	DOMESTIC HOT WATER	INV	INVERT	TDH	TOTAL DYNAMIC HEAD
DHWR	DOMESTIC HOT WATER RETURN	IPC	INTERNATIONAL PLUMBING CODE	TDL	TEMPERATURE DIFFERENTIAL
DHWS	DOMESTIC HOT WATER SUPPLY	IRW	IRRIGATION WATER	TEMP	TEMPERATURE
DF	DRINKING FOUNTAIN	IW	INDIRECT WASTE	TMV	THERMOSTATIC MIXING VALVE
DI	DEIONIZED WATER	IWH	INSTANTANEOUS WATER HEATER	TP	TRAP PRIMER
DN	DOWN	IWR	INDUSTRIAL WATER RETURN	TSTAT	THERMOSTAT
DOE	DEPARTMENT OF ENERGY	IWS	INDUSTRIAL WATER SUPPLY	TWR	TEMPERED WATER RETURN
DS	DOWNSPOUT			TWS	TEMPERED WATER SUPPLY
DV	DENTAL VACUUM	KW	KILOWATT	TYP	TYPICAL
DW	DISHWASHER	KWHR	KILOWATT-HOUR		
DWG	DRAWING			UPC	UNIFORM PLUMBING CODE
DWH	DOMESTIC WATER HEATER	L/S	LITER PER SECOND		
DWR	DRINKING WATER RETURN	LA	LABORATORY AIR	V	SANITARY VENT
DWS	DRINKING WATER SUPPLY	LAV	LAVATORY	VAC	VACUUM
DWT	DOMESTIC WATER TEMPERED	LBS/HR	POUNDS PER HOUR	VB	VACUUM BREAKER
DWV	DRAIN WASTE VENT	LCW	LABORATORY COLD WATER	VCO	VACUUM CLEANER OUTLET
		LHW	LABORATORY HOT WATER	VP	VACUUM PUMP
EC	ELECTRICAL CONTRACTOR	LNG	LIQUID NATURAL GAS	VS	VENT STACK
EL	ELEVATION	LOX	LIQUID OXYGEN	VTR	VENT THROUGH ROOF
EMCS	ENERGY MONOSERRAT AND CENTRAL	LV	LABORATORY VACUUM		
	SYSTEM	LW	LOW WATER	W	WASTE
EPA	ENVIRONMENTAL PROTECTION			WC	WATER CLOSET
	AGENCY	M	METER	WCO	WALL CLEANOUT
EPACT	ENERGY POLICY ACT	MA	MEDICAL AIR	WG	WATER GAUGE
ESC	ESCUTCHEON	MAV	MANUAL AIR VENT	WH	WATER HEATER
ESH	EMERGENCY SHOWER	MBH	THOUSANDS OF BTU PER HOUR	WHA	WATER HAMMER ARRESTOR
ET	EXPANSION TANK	MC	MECHANICAL CONTRACTOR	WHD	WALL HYDRANT
EWC	ELECTRIC WATER COOLER	MED	MEDICAL	WL	WATER LINE
EWH	ELECTRIC WATER HEATER	MER	MECHANICAL EQUIPMENT ROOM	WM	WATER METER
EWS	EYEWASH STATION	MH	MANHOLE	WPD	WATER PRESSURE DROP
EX	EXISTING	MOU	MEMORANDUM OF UNDERSTANDING	WS	WASTE STACK
		MSB	MOP SINK BASIN		
		MV	MEDICAL VACUUM	YCO	YARD CLEANOUT
				YH	YARD HYDRANT
		N2	NITROGEN		
		N2O	NITROUS OXIDE		
		NC	NORMALLY CLOSED		
		NG	NATURAL GAS		
		NIC	NOT IN CONTRACT		
		NO	NORMALLY OPEN		
		NOM	NOMINAL		
		NPW	NON POTABLE WATER		
		NTS	NOT TO SCALE		

PLUMBING SYMBOLS

	PIPE SLOPE ARROW
	FLOW ARROW
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	3-WAY CONTROL VALVE
	ANGLE GATE VALVE
	ANGLE GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CIRCUIT SETTER
	CONTROL VALVE
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE (WATER)
	PRESSURE REGULATOR (GAS)
	SAFETY RELIEF VALVE
	TWO POSITION CONTROL VALVE
	BACKFLOW PREVENTER
	HOSE BIBB / SILLCOCK
	AUTOMATIC AIR VENT
	PRESSURE GAUGE
	THERMOMETER
F	FLOW SWITCH
P	PRESSURE SWITCH
T	TEMPERATURE SWITCH
	PIPE UNION
	WYE STRAINER
	WYE STRAINER WITH DRAIN VALVE
	PUMP
OR	FLOOR DRAIN - ROUND OR SQUARE
	FLOOR CLEANOUT
CO	SUSPENDED CLEANOUT
WCO	WALL CLEANOUT
	PIPE CAP
	PIPE TURNING DOWN
	PIPE TURNING UP
	TEE UP
	TEE DOWN
	DROP AND RUN
	DROP AND TURN
	TEE OFF TOP
	TEE OFF BOTTOM
	CROSS AND RISER
	PLAN 90° ELBOW
	PIPE TEE
	FLEXIBLE PIPE CONNECTOR
	PIPE ANCHOR
	PIPE GUIDES
M	WATER METER

PLUMBING SYMBOLS

	PIPING SYSTEM	
AW	AW	ACID WASTE
CA	CA	COMPRESSED AIR
D	D	CONDENSATE DRAIN
CO2	CO2	CARBON DIOXIDE
NG	NG	NATURAL GAS
GW	GW	GREASE WASTE
MA	MA	MEDICAL AIR
N2	N2	NITROGEN
N2O	N2O	NITROUS OXIDE
OFD	OFD	OVERFLOW STORM DRAIN
OW	OW	OIL WASTE
O2	O2	OXYGEN
PD	PD	PUMP DISCHARGE
PG	PG	PROPANE GAS
ST	ST	STORM
VAC	VAC	VACUUM
WAGD	WAGD	WASTE ANESTHETIC GAS DISPOSAL
SAN	SAN	SANITARY WASTE
AV	AV	ACID VENT
OV	OV	OIL VENT
V	V	SANITARY VENT
DCW	DCW	DOMESTIC COLD WATER
DI	DI	DE-IONIZED WATER
NPCW	NPCW	NONPOTABLE COLD WATER
RO	RO	REVERSE OSMOSIS WATER
DSCW	DSCW	DOMESTIC SOFT COLD WATER
DHW	DHW	DOMESTIC HOT WATER
HW 140	DHW 140	DOMESTIC HOT WATER (OTHER TEMP)
DCWR	DCWR	DOMESTIC CW RECIRCULATION
DHWR	DHWR	DOMESTIC HW RECIRCULATION
DWT	DWT	DOMESTIC WATER TEMPERED
DCW	DCW	DOMESTIC CW BELOW THE FLOOR
SD	SD	STORM BELOW THE FLOOR
SAN	SAN	SANITARY WASTE BELOW THE FLOOR

ANNOTATION SYMBOLS

#	NEW WORK KEYNOTE
#	DEMOLITION KEYNOTE
NEW	BOLD TEXT INDICATES NEW ITEM
EXISTING	ITALICIZED TEXT INDICATES EXISTING ITEM
## / #	DETAIL MODULE NUMBER DETAIL OR SECTION MARK SHOWN ON DRAWING
	CONNECT TO EXISTING
	LIMIT OF DEMOLITION
P-###	NEW PLUMBING EQUIPMENT MARK
P-###	EXISTING PLUMBING EQUIPMENT MARK

PLUMBING GENERAL NOTES

1. WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
2. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
3. OBTAIN AND PAY FOR PERMITS, FEES, AND INSPECTIONS REQUIRED FOR THIS WORK.
4. PROVIDE NEW MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED.
5. EQUIPMENT OR MATERIAL DEVIATIONS FROM INDICATED CONTRACT REQUIREMENTS ARE SUBJECT TO THE APPROVAL OF THE COR. SUBMIT PROPOSED EQUIPMENT DEVIATIONS THAT ARE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED, AS SOLELY DETERMINED BY THE COR.
6. INSTALL EQUIPMENT AS INDICATED, ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS, AND REPLACEMENT.
7. AT EACH PLUMBING FIXTURE WITH QUICK CLOSING VALVES, PROVIDE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
8. SANITARY DRAINAGE PIPING INDICATED IS LOCATED BELOW FLOOR SLAB OR WITHIN WALLS UNLESS NOTED OTHERWISE. SANITARY VENT PIPING INDICATED IS ABOVE THE CEILING OR WITHIN WALLS UNLESS NOTED OTHERWISE.
9. SUPPORT PIPING SYSTEM AS REQUIRED BY APPLICABLE LOCAL, STATE, AND NATIONAL CODES ALONG WITH SPECIFICATIONS, VA STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
10. FIRESTOP AND SEAL PIPING PENETRATIONS THROUGH WALLS AND FLOORS EQUAL TO THE RATING OF WALLS AND FLOORS.
11. TEST PLUMBING SYSTEM IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
12. COORDINATE PLUMBING PIPING WITH WORK OF OTHER DISCIPLINES.
13. DISINFECT DOMESTIC WATER SYSTEM IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
14. PROVIDE SHUT OFF VALVES AT BRANCH PIPING TO FIXTURES.
15. COORDINATE PLUMBING WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION. COORDINATE ROUTING OF PIPING WITH EXISTING CONDITIONS.
16. PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE AND COORDINATED WORKING PLUMBING SYSTEM. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS.
17. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRED SHUTDOWN WITH THE COR 2 WEEKS IN ADVANCE AND CONFIRM 48 HOURS PRIOR.
18. PATCH, PAINT AND CLEAN SURFACES SUSTAINING DAMAGE ASSOCIATED WITH PLUMBING WORK OF THIS CONTRACT, UNLESS NOTED OTHERWISE.
19. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
20. DO NOT INSTALL PIPES ABOVE TELECOM OR ELECTRICAL EQUIPMENT.
21. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL TESTING ASSOCIATED WITH PLUMBING SYSTEM COMMISSIONING PER SPECIFICATIONS.

WALL RATING LEGEND

2 HOUR FIRE SEPARATION

1 HOUR FIRE SEPARATION

S SMOKE RATED

ALTERNATE NOTES

BID DEDUCT ALTERNATE #1
ALL WORK IN CONTRACT EXCEPT CHANGE FENCE AND PYLONS TO METAL FENCE. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #2
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 AND SUBSTITUTE BRICK IN PLACE OF RAINSCREEN. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #3
ALL WORK IN CONTRACT EXCEPT DEDUCT #1, #2, AND REMOVE SCREEN SYSTEM AT FIRST-FLOOR PORCH. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #4
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #3 AND REMOVE SCREEN SYSTEM AT GROUND FLOOR PORCH. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #5
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #4 AND OMIT LANDSCAPE/HARDSCAPE IN THE SOUTHERN COURTYARD. SEE SHEET A101.1.
BID DEDUCT ALTERNATE #6
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #5 AND ELIMINATE SCREEN PORCH, INCLUDING ASSOCIATED LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, AND NOTIFICATION DEVICES. INSTALL LIGHT FIXTURE M1E AT DOUBLE DOORS EXITING THE BUILDING. INSTALL PULL STATION AT DOUBLE DOORS EXITING THE BUILDING. SEE SHEETS EL101, EP101, AND FA101.
BID DEDUCT ALTERNATE #7
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #6 AND ELIMINATE LANDSCAPE LIGHTING, INCLUDING LIGHT FIXTURES AND LIGHTING CONTROLS. SEE SHEET ES101.
BID DEDUCT ALTERNATE #8
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #7 AND OMIT CANOPIES. SEE SHEET A-105.
BID DEDUCT ALTERNATE #9
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #8 AND ELIMINATE NORTH COURTYARD. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #10
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #9 AND REDUCE LANDSCAPING, TREE, AND SHRUB CALIPERS. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #11
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #10 AND ELIMINATE THIRD CHILLER, INCLUDING ASSOCIATED BREAKER, DISCONNECT, AND WIRING. SEE SHEET E-401.
BID DEDUCT ALTERNATE #12
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #11 AND MOVE CEILING LIFTS TO ACTIVATION BUDGET. SEE SHEET A-104.1.
BID DEDUCT ALTERNATE #13
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #12 AND PLACE WINDOW SHADES IN THE ACTIVATION BUDGET.
BID DEDUCT ALTERNATE #14
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #13 AND ELIMINATE WINDOW SOFFITS AND SOLID SURFACE SILLS. SEE SHEET A-512 DETAIL 10.
BID DEDUCT ALTERNATE #15
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #14 AND SHELL FIVE RESIDENT ROOMS. INSTALL ELECTRICAL WIRING, BOXES, SWITCHES AS SHOWN, EXCLUDING LIGHT FIXTURES C1 AND D2. INSTALL LIGHT FIXTURE F1 AND CIRCUIT TO WALL SWITCH PER DETAIL 5/E-401. SEE SHEET EL101.
BID DEDUCT ALTERNATE #16
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #15 AND ELIMINATE BENCHES. SEE SHEET A-101.1.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE SMITH REGISTERED Date No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING GENERAL INFORMATION

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved:

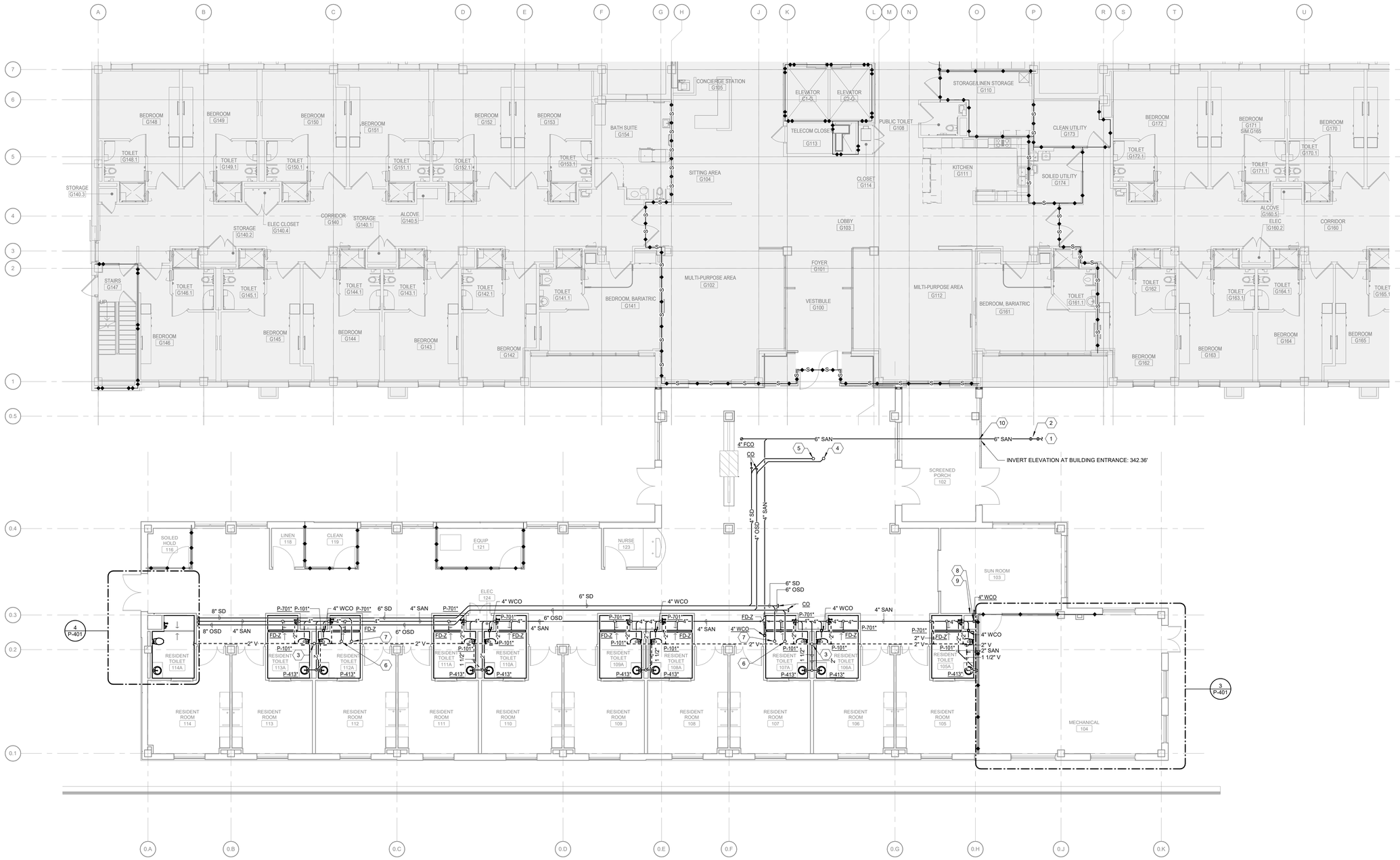
Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

Drawing Number: P-001

Dwg 1 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudia.rvt
6/16/2025 4:26:41 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 GROUND FLOOR DRAIN, WASTE, AND VENT PLAN

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

0 4 8 16 NORTH

SHEET NOTES:

A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.

B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.

C. SANITARY PIPING IS BELOW THE FLOOR UNDERSLAB UNLESS OTHERWISE NOTED.

(#) KEY NOTES:

1 NEW 6" UNDERGROUND SANITARY WASTE LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2 PROVIDE DOUBLE-WAY CLEANOUT ON SANITARY SEWER LINE. SEE DETAIL 11/P-501 FOR MORE INFORMATION.
3 3" VENT THROUGH ROOF. SEE DETAIL 6/P-501 FOR MORE INFORMATION.
4 4" OVERFLOW STORM PIPE UP TO OVERFLOW ROOF DRAIN.
5 4" STORM PIPE UP TO ROOF DRAIN.
6 6" OVERFLOW STORM PIPE UP TO OVERFLOW ROOF DRAIN.
7 6" STORM PIPE UP TO ROOF DRAIN.
8 4" SANITARY STUBOUT FOR FUTURE EXPANSION. CAP ABOVE CEILING LEVEL.
9 PROVIDE AN ACCESS PANEL TO ACCESS STUBOUT IN THE CHASE.
10 6" SANITARY PIPE PENETRATES STRUCTURE PERIMETER BEAM AT THIS LOCATION.

SCOPE OF WORK LEGEND

NOT IN SCOPE
IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE SHIPLEY LEWIS REGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

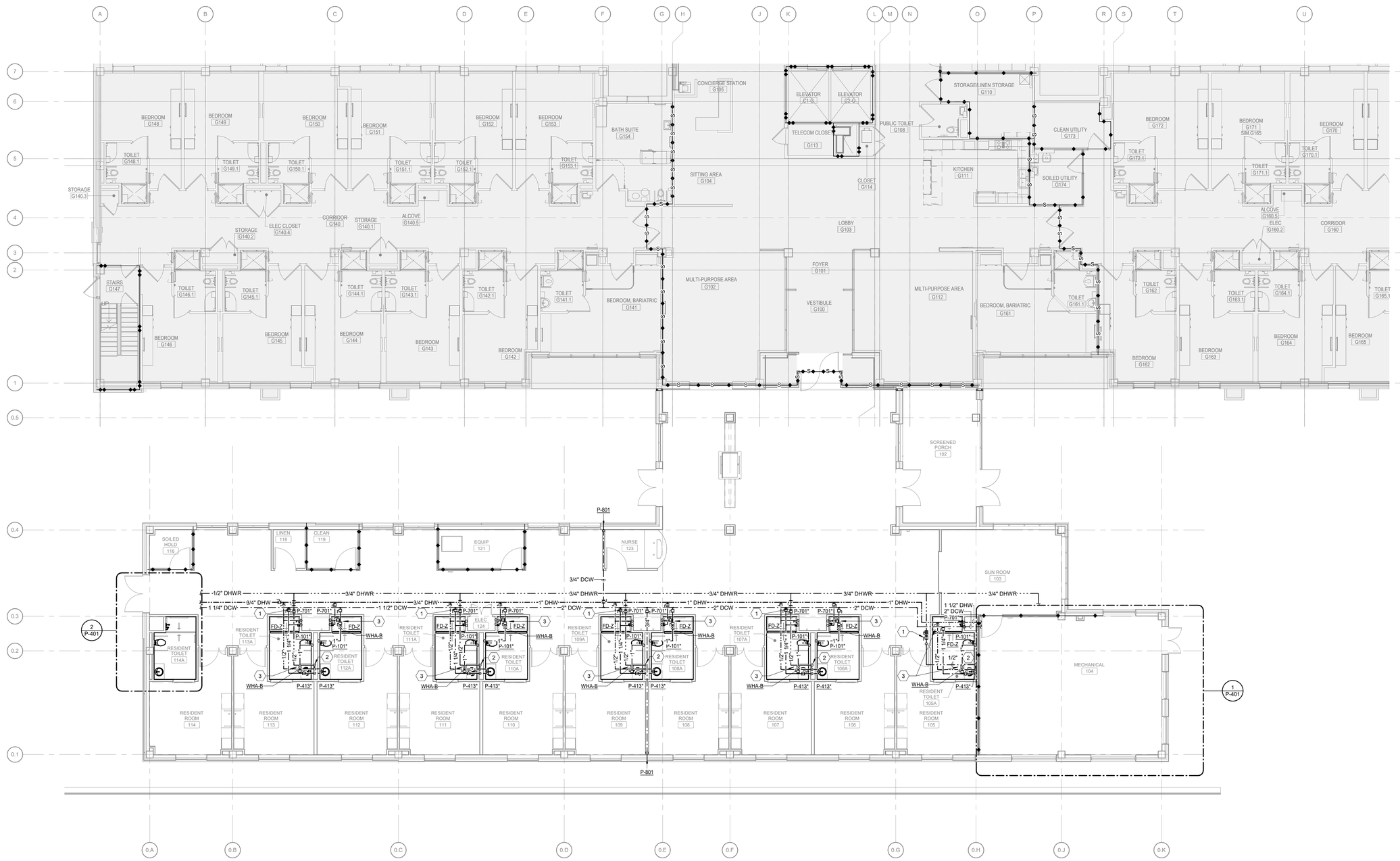
APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420
© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR DRAIN, WASTE, AND VENT PLAN
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Approved:
Date: JUNE 23, 2025
Checked: WRS
Drawn: TB
Drawing Number: PW101
Dwg 2 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 4:26:49 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 GROUND FLOOR DOMESTIC WATER PLAN

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

0 4 8 16 NORTH

SHEET NOTES:

A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.

B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.

C. PROVIDE ISOLATION BALL VALVES AT EACH BRANCH TO FIXTURE. LOCATE AS CLOSE TO MAIN AS POSSIBLE.

D. PROVIDE WATER HAMMER ARRESTOR AT ALL QUICK CLOSING VALVES. SEE DETAIL 2/P-501 FOR SCHEDULE.

E. PROVIDE THERMOSTATIC MIXING VALVE AT EACH LAVATORY. SET TEMPERATURE AT 110°F.

(#) KEY NOTES:

1 PROVIDE THERMOSTATIC SELF-ACTUATING BALANCING VALVE. SET TO 124 F MINIMUM.

2 1/2" DHWR PIPE DOWN IN WALL/CHASE AND CONNECT TO DHW PIPING AS CLOSE TO THE FIXTURE AS POSSIBLE.

3 PROVIDE AN ACCESS PANEL IN THIS ROOM TO PROVIDE ACCESS TO THE GROUP OF VALVES. REFER TO THE ARCHITECTURE DRAWINGS.

SCOPE OF WORK LEGEND

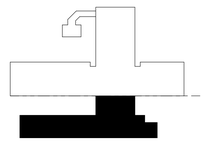
NOT IN SCOPE

IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE SHIPLEY LEGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR DOMESTIC WATER PLAN

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

VA PROJECT NUMBER 586-401

Building Number # 7A

Drawing Number PP101

Dwg 3 of 14

6/16/2025 4:26:37 PM C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudal.rvt

VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

1 GROUND FLOOR MEDICAL GAS PLAN
Scale: 1/8" = 1'-0"

SHEET NOTES:

A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.

B. CONTRACTOR TO COORDINATE ZONE VALVE INSTALLATION WITH VA FOR ANY SHUT DOWN.

KEY NOTES:

1. CONNECT NEW 3/4" OXYGEN, 1" MEDICAL VACUUM, AND 3/4" MEDICAL AIR LINES TO THE EXISTING 2-1/2" OXYGEN, 4" MEDICAL VACUUM, AND 2-1/2" MEDICAL AIR MAINS NEXT TO THE SOURCE EQUIPMENT IN THE EXISTING CLC BUILDING. COORDINATE EXACT LOCATION OF THE SOURCE EQUIPMENT PRIOR TO INSTALLATION.
2. MEDICAL GAS ZONE VALVE CABINET. SEE DETAIL 7/P-501.
3. MEDICAL GASES IN WALL TO HEADWALL. COORDINATE EXACT LOCATION WITH INTERIOR PLANS.
4. MEDICAL GAS AREA ALARM PANEL. SEE DETAIL 7/P-501.
5. PROVIDE LOCKABLE MEDICAL GASES IN-LINE SHUT-OFF VALVES.

SCOPE OF WORK LEGEND

NOT IN SCOPE

IN SCOPE

KEY PLAN
SCALE: NO SCALE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

William Roscoe Shipley, Registered Professional Engineer No. 12100087, State of Indiana — 6/19/2025

PROJECT MANAGER — ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	GROUND FLOOR MEDICAL GAS PLAN
Project Title	CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER	586-401
Building Number	# 7A
Location	G.V. MONTGOMERY VAMC 1500 E. WOODROW WILSON AVENUE JACKSON, MS 39216
Approved	
Date	JUNE 23, 2025
Checked	WRS
Drawn	TB
Drawing Number	PG101
Dwg	4 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 4:27:03 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

1 **GROUND FLOOR MEDICAL GAS PLAN**
Scale: 1" = 20'-0"

0 4 8 16 NORTH

SHEET NOTES:

A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.

B. CONTRACTOR TO COORDINATE ZONE VALVE INSTALLATION WITH VA FOR ANY SHUT DOWN.

KEY NOTES:

1 CONNECT NEW 1" MEDICAL VACUUM LINE TO THE EXISTING 4" MEDICAL VACUUM MAIN NEXT TO THE SOURCE EQUIPMENT IN THE EXISTING BOILER ROOM. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.

2 NEW 3/4" MEDICAL AIR LINE UP TO THE FIRST FLOOR AND CONNECT TO THE EXISTING 2-1/2" MEDICAL AIR MAIN NEXT TO THE SOURCE EQUIPMENT IN EXISTING CLC BUILDING. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.

3 EXISTING 2-1/2" OXYGEN LINE BELOW GRADE FROM BULK TANKS TO BOILER ROOM.

4 NEW 3/4" OXYGEN LINE CONNECT TO THE EXISTING 2-1/2" OXYGEN MAIN IN EXISTING BOILER ROOM. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.

5 PROVIDE LOCKABLE MEDICAL GASES IN-LINE SHUT-OFF VALVES.

SCOPE OF WORK LEGEND

NOT IN SCOPE

IN SCOPE

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY REGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR MEDICAL GAS PLAN

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date	Checked	Drawn
JUNE 23, 2025	WRS	TB

VA PROJECT NUMBER 586-401

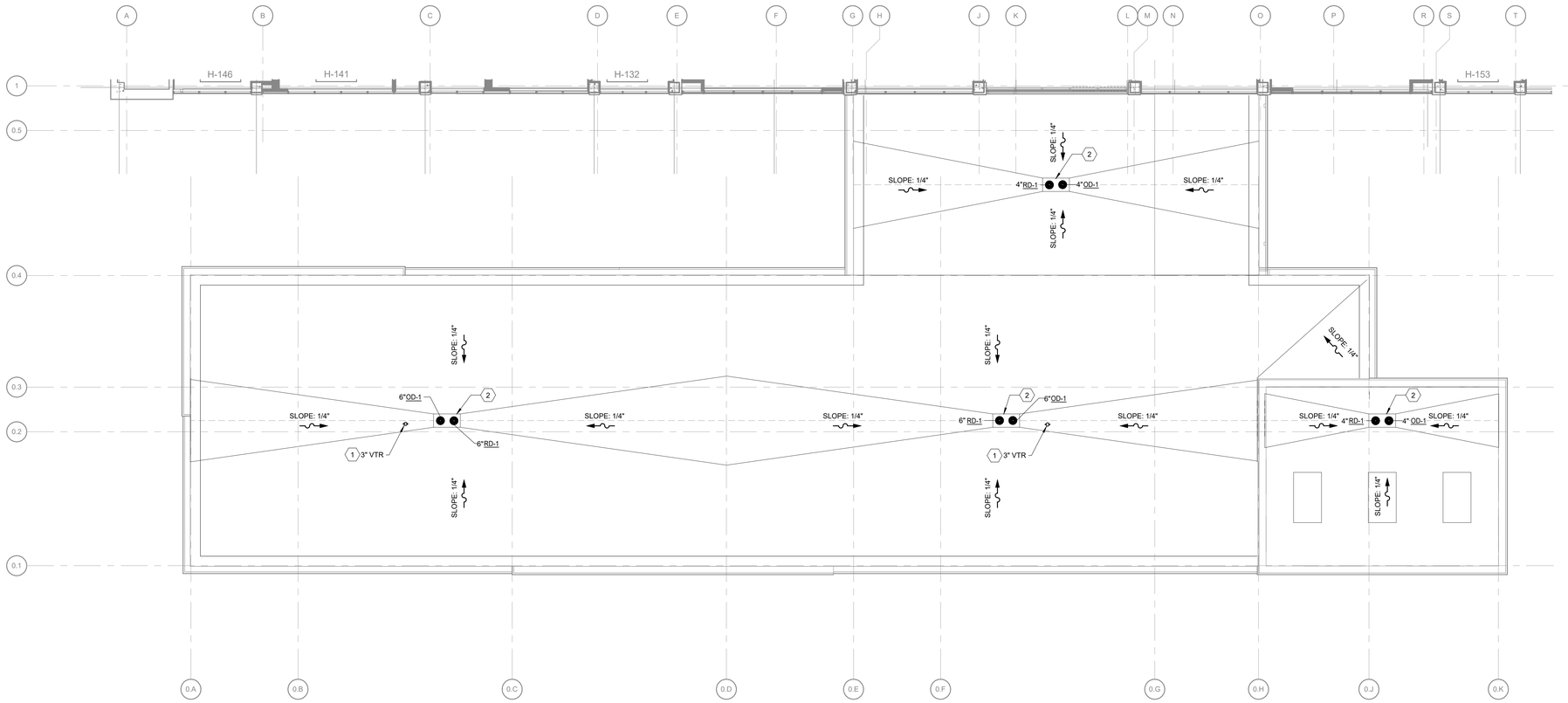
Building Number # 7A

Drawing Number PG102

Dwg 5 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 4:27:06 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 **ROOF PLUMBING PLAN**
Scale: 1/8" = 1'-0"

0 4 8 16 NORTH

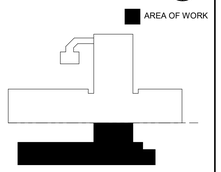
SHEET NOTES:

A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.

KEY NOTES:

1 VENT THROUGH ROOF, SIZE AS NOTED. SEE DETAIL 6/P-501 FOR CLAMPING REQUIREMENTS.
2 NEW ROOF DRAIN AND OVERFLOW DRAIN. REFER TO ARCHITECTURAL DRAWINGS FOR THE DETAIL.

KEY PLAN
SCALE: NO SCALE



FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY
REGISTERED
No. 12100087
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

APOGEE
Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

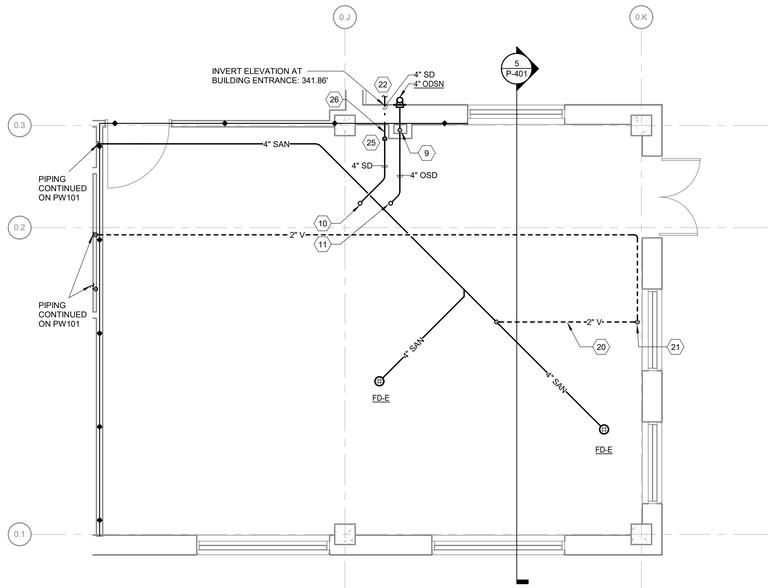
Drawing Title: ROOF PLUMBING PLAN
Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD
Approved
Date: JUNE 23, 2025
Checked: WRS
Drawn: TB

VA PROJECT NUMBER: 586-401
Building Number: # 7A
Drawing Number: PW102
Dwg 6 of 14

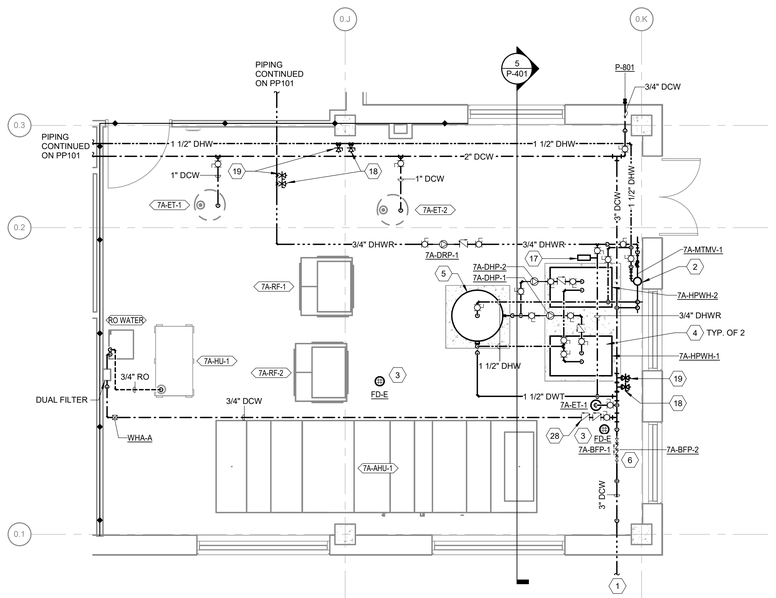
C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 4:27:08 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



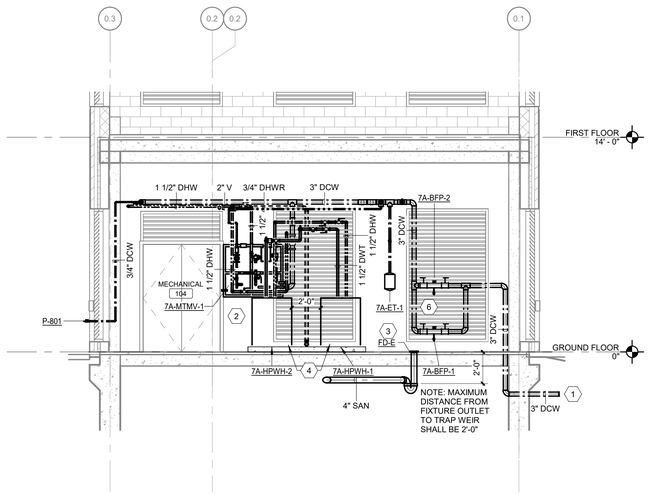
3 ENLARGED MECHANICAL ROOM 104 DRAIN, WASTE, AND VENT PLAN

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



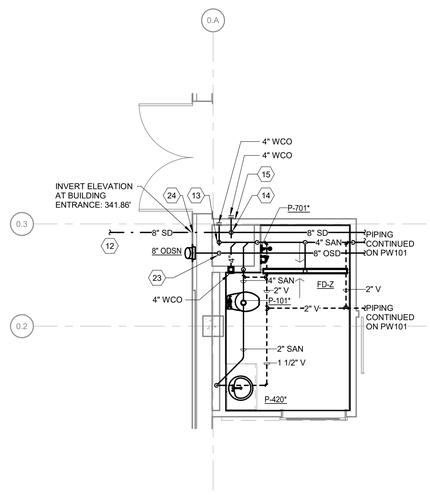
1 ENLARGED MECHANICAL ROOM 104 DOMESTIC WATER PLAN

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



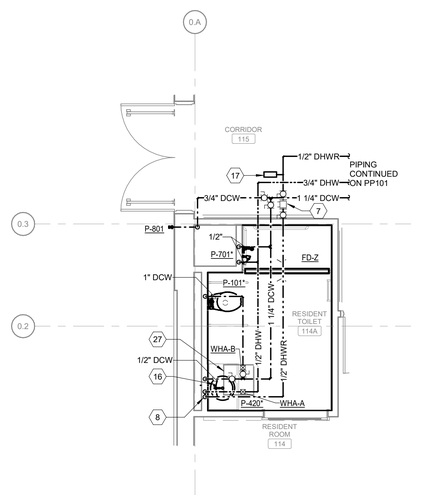
5 PLUMBING SECTION

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



ENLARGED TYPICAL RESIDENT TOILET DRAIN, WASTE, AND VENT PLAN

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



ENLARGED TYPICAL RESIDENT TOILET DOMESTIC WATER PLAN

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

SHEET NOTES:

A. SLEEVE ALL PENETRATIONS. FIRESTOP AND SEAL WATER TIGHT.

B. UNLESS NOTED OTHERWISE, THE SIZE OF FIXTURE RUNOUTS IS TO BE WHAT IS LISTED IN THE PLUMBING FIXTURE SCHEDULE.

C. PROVIDE ISOLATION BALL VALVES AT EACH BRANCH TO FIXTURE. LOCATE AS CLOSE TO MAIN AS POSSIBLE.

D. PROVIDE WATER HAMMER ARRESTOR AT ALL QUICK CLOSING VALVES. SEE DETAIL 2/P-501 FOR SCHEDULE.

E. PROVIDE THERMOSTATIC MIXING VALVE AT EACH LAVATORY. SET TEMPERATURE AT 110°F.

F. SANITARY PIPING IS BELOW THE FLOOR UNDERSLAB UNLESS OTHERWISE NOTED.

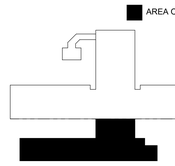
KEY NOTES:

1. 3" UNDERGROUND DOMESTIC WATER SERVICE LINE. SEE DETAIL 3/P502. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. PROVIDE DIGITAL MASTER THERMOSTATIC MIXING VALVE STATION. SEE DETAIL 4/P-502.
3. FLOOR DRAIN TO HAVE TRAP GUARD. SEE DETAIL 3/P-501 FOR MORE INFORMATION.
4. HEAT PUMP HOT WATER HEATER ON 4" HIGH CONCRETE PAD. SEE DETAIL 1/P-502.
5. 318 GALLONS INSULATED DOMESTIC HOT WATER STORAGE TANK ON 4" HIGH CONCRETE PAD. SEE DETAIL 1/P-502.
6. PROVIDE DUAL PARALLEL PIPED REDUCED PRESSURE BACKFLOW PREVENTERS. SEE DETAIL 2/P-502.
7. PROVIDE THERMOSTATIC SELF-ACTUATING BALANCING VALVE. SET TO 124 F MINIMUM.
8. 1/2" DHWR PIPE DOWN IN WALL/CHASE AND CONNECT TO DHW PIPING AS CLOSE TO THE FIXTURE AS POSSIBLE.
9. 4" OVERFLOW STORM PIPE DOWN TO DOWNSPOUT NOZZLE.
10. 4" OVERFLOW STORM PIPE UP.
11. 4" STORM PIPE UP.
12. NEW 8" UNDERGROUND STORM LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
13. 4" SANITARY STUBOUT FOR FUTURE EXPANSION. CAP ABOVE CEILING LEVEL.
14. 8" STORM DRAIN STUBOUT FOR FUTURE EXPANSION. CAP ABOVE CEILING LEVEL.
15. PROVIDE AN ACCESS PANEL TO ACCESS STUBOUTS IN THE CHASE.
16. PROVIDE AUTO FLUSHING/PURGING FAUCET. SET FAUCET CONTROLS FOR AUTOMATIC FLUSHING FOR 20 MIN (ADJ.) AT 2:00 AM. COORDINATE WITH COR.
17. PROVIDE WATER TEMPERATURE MONITOR ON THE DHWR FOR CONNECTION TO THE BUILDING AUTOMATION SYSTEM.
18. PROVIDE CHLORINE INJECTION PORTS ON DCW, DHW, AND DHWR LINES.
19. PROVIDE TESTING PORTS ON DCW, DHW, AND DHWR LINES.
20. 2" VENT PIPING 6" ABOVE THE RIM OF THE FLOOR DRAIN BEFORE OFFSETTING HORIZONTALLY.
21. 2" VENT PIPING UP.
22. NEW 4" UNDERGROUND STORM LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
23. 8" OVERFLOW STORM PIPE DOWN TO DOWNSPOUT NOZZLE.
24. 8" STORM PIPE PENETRATES STRUCTURE PERIMETER BEAM AT THIS LOCATION.
25. 4" STORM PIPE DOWN TO UNDERGROUND.
26. 4" STORM PIPE PENETRATES STRUCTURE PERIMETER BEAM AT THIS LOCATION.
27. PROVIDE AN ACCESS PANEL IN THIS ROOM TO PROVIDE ACCESS TO THE GROUP OF VALVES. REFER TO THE ARCHITECTURE DRAWINGS.
28. 3/4" DCW TO THE HUMIDIFIER. REFER TO THE MECHANICAL DRAWINGS. PROVIDE DOUBLE CHECK VALVE ASSEMBLY ON DCW SUPPLY TO HUMIDIFIER.

KEY PLAN

SCALE: NO SCALE

AREA OF WORK



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE SMITH No. 12100087 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED PLUMBING PLANS AND PLUMBING SECTION

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

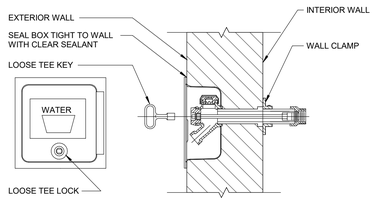
Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

Drawing Number: P-401

Dwg 7 of 14

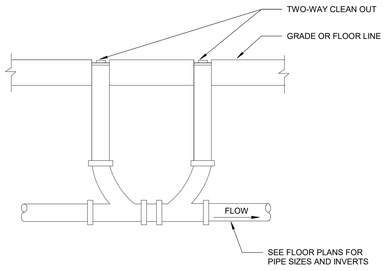
C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudak.rvt
6/16/2025 4:27:10 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



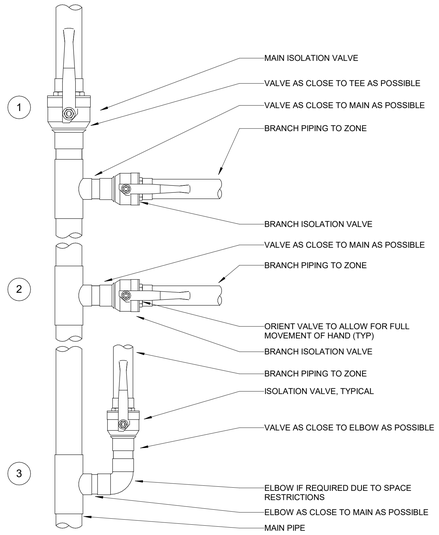
10 P-801 - WALL HYDRANT BOX DETAIL

Scale: No Scale



11 TWO WAY CLEAN OUT DETAIL

Scale: No Scale

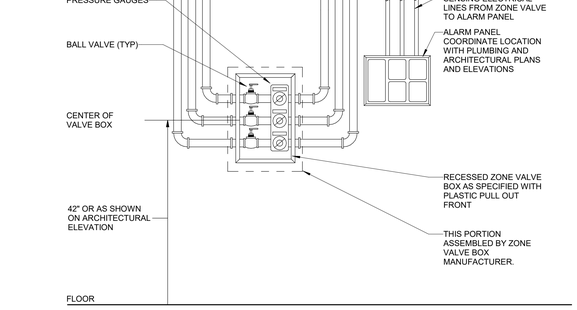


NOTE:

1. DISTANCE FROM MAIN TO THE VALVE SHALL BE NO GREATER THAN TWO PIPE DIAMETERS FROM THE BRANCH, RISER, OR MAIN THAT IT IS CONNECTED TO, OR AS CLOSE AS POSSIBLE IF SPACE LIMITATIONS OR FITTING CONFIGURATION DOES NOT ALLOW FOR TWO PIPE DIAMETERS. COR TO BE NOTIFIED PRIOR TO INSTALLATION.
2. COR APPROVAL REQUIRED FOR INSTALLATION TYPE 3 WITH ELBOW BEFORE VALVE.

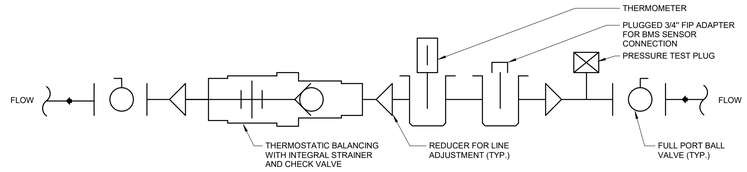
12 ISOLATION VALVE LOCATION DETAIL

Scale: No Scale



7 TYPICAL MEDGAS ZONE VALVE AND ALARM DETAIL

Scale: No Scale

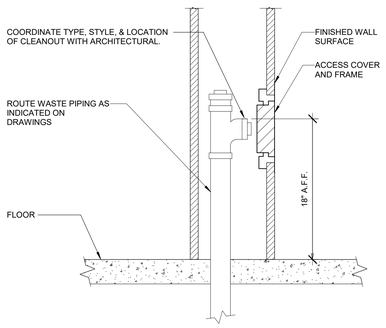


NOTE:

1. DHWR BALANCING VALVE SHALL RESTRICT FLOW AT 125°F (ADJ.) WITH A HIGH-TEMPERATURE BYPASS ACTUATING AT 170°F FOR DHWR.

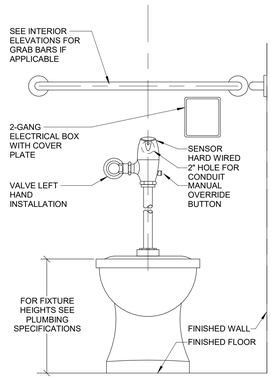
8 THERMOSTATIC BALANCING VALVE ASSEMBLY SCHEMATIC

Scale: No Scale



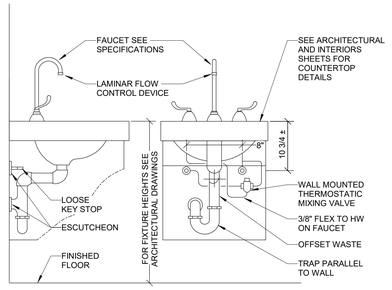
9 WALL CLEANOUT DETAIL

Scale: No Scale



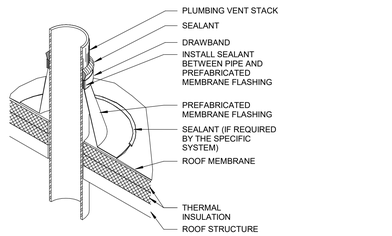
4 WATER CLOSET FLOOR MOUNT - HARD WIRED SENSOR DETAIL

Scale: No Scale



5 LAVATORY COUNTER MOUNTED - WRIST FAUCET DETAIL

Scale: No Scale

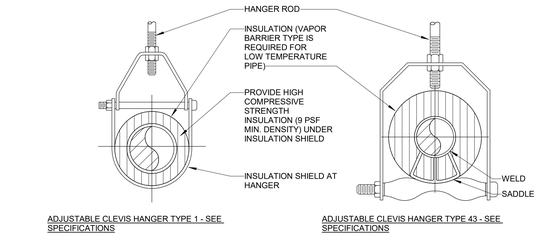


NOTES:

1. VENT STACKS AND OTHER PIPES SHALL HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

6 ROOF VENT DETAIL

Scale: No Scale



MAXIMUM PIPE/TUBING SUPPORT SPACING

NOM. SIZE (IN.)	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
PIPE (FT.)	7	7	7	9	10	11	12	14	16	17	19	22	23
TUBING (FT.)	5 FT	6	7	8	8	9	10	12	13	14	16	-	-

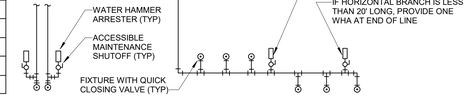
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE

1 PIPE HANGER DETAIL

Scale: No Scale

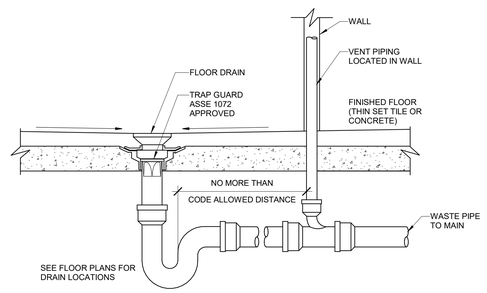
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
WHA-A	1/2"	1-11
WHA-B	3/4"	12-32
WHA-C	1"	33-60
WHA-D	1-1/4"	61-113
WHA-E	1-1/2"	114-154
WHA-F	2"	154-330

INSTALL PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. PROVIDE WHA AT ALL QUICK CLOSING VALVES.



2 WATER HAMMER ARRESTOR DETAIL

Scale: No Scale



3 FLOOR DRAIN & TRAP GUARD DETAIL

Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE SHIPLEY JR. REGISTERED Lic. No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DETAILS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

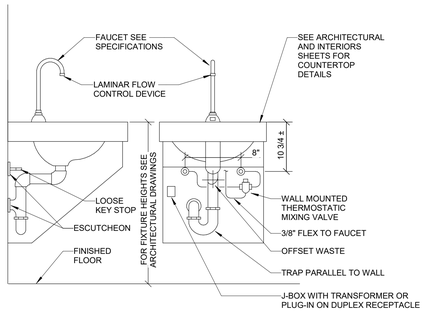
Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

Drawing Number: P-501

Dwg 8 of 14

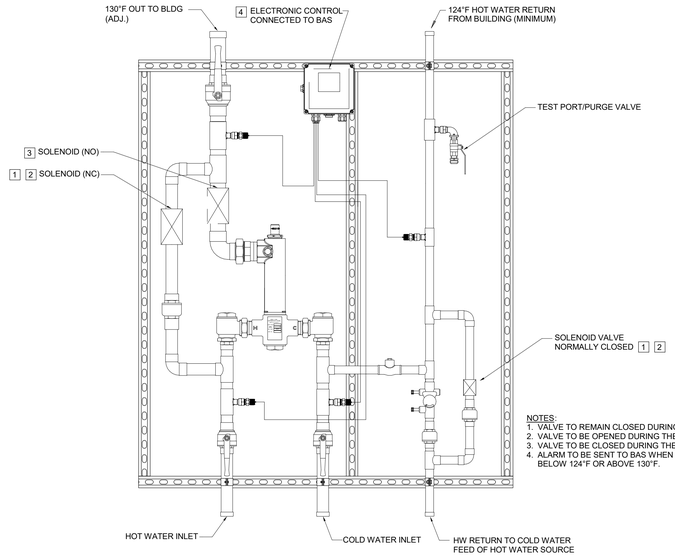
C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_studat.rvt
6/16/2025 4:27:10 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



7 LAVATORY COUNTER MOUNTED - SENSOR OPERATED DETAIL

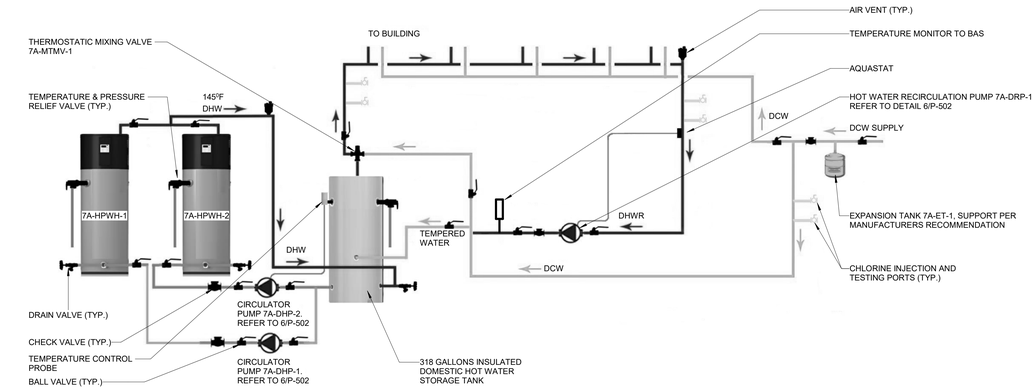
Scale: No Scale



NOTES:
1. VALVE TO REMAIN CLOSED DURING NORMAL OPERATION.
2. VALVE TO BE OPENED DURING THERMAL ERADICATION.
3. VALVE TO BE CLOSED DURING THERMAL ERADICATION.
4. ALARM TO BE SENT TO BAS WHEN TEMPERATURE FALLS BELOW 124°F OR ABOVE 130°F.

4 MASTER DIGITAL THERMOSTATIC MIXING VALVE DETAIL

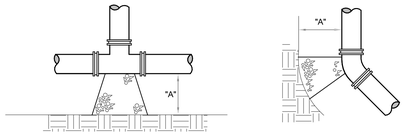
Scale: No Scale



NOTES:
1. DOMESTIC WATER HEATER OUTPUT TEMPERATURE SHALL BE SET TO 145°F. THERMOSTATIC MIXING VALVE SHALL BE SET TO 130°F.
2. AQUASTAT CONTROLLER FOR RECIRCULATION PUMP SHALL BE CONFIGURED TO TURN PUMP ON AT 125°F AND OFF AT 130°F.
3. EACH WATER HEATER AND PUMP IS SIZED FOR 100% LOAD. ONLY ONE WATER HEATER AND RESPECTIVE PUMP IS OPERATIONAL AT A TIME.

1 DOMESTIC WATER HEATING SCHEMATIC

Scale: No Scale



TEES, PLUGS & HYDRANTS ELBOWS

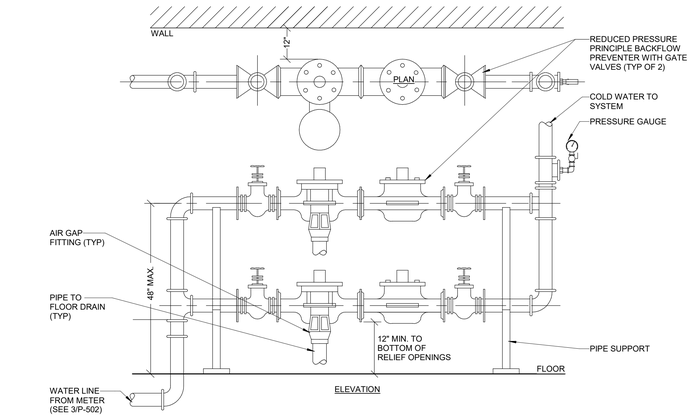
1. THRUST BLOCK SHALL BE FC'=2500 PSI @ 28 DAYS (SEE SPECIFICATIONS)
2. ALL THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.
3. BOLTS, FITTING, & JOINTS SHALL BE KEPT CLEAR OF CONCRETE.
4. A BEARING CAPACITY OF 2000# PER FOOT WAS USED IN DETERMINING THE MINIMUM "BEARING AREAS" IN THE ABOVE TABLES.
5. THE CROSS SECTION OF THE THRUST BLOCKS SHALL BE SQUARE.

ELBOWS					
PIPE DIA. INCHES	"A" FEET	BEARING AREA (SQUARE FEET) 90°	45°	22-1/2°	11-1/4°
4	1.5	2.1	1.1	0.6	0.3
6	2.0	4.1	2.2	1.1	0.6
8	2.0	6.8	3.7	1.9	0.9
10	2.5	10.1	5.5	2.8	1.4
12	3.0	14.1	7.6	3.9	2.0
16	3.0	24.2	13.0	6.7	3.3
18	3.0	30.0	16.3	8.3	4.2
20	3.0	36.8	19.9	10.1	5.1

TEES, PLUGS & HYDRANTS		
PIPE DIA. INCHES	"A" FEET	BEARING AREA SQUARE FEET
4	2.0	1.5
6	2.0	2.9
8	2.5	4.8
10	2.5	7.1
12	3.0	10.0
16	3.0	17.1
18	3.5	21.0
20	4.0	26.0

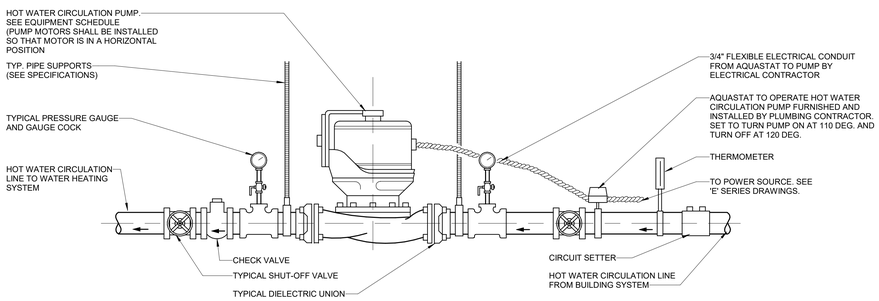
5 THRUST BLOCK DETAIL

Scale: No Scale



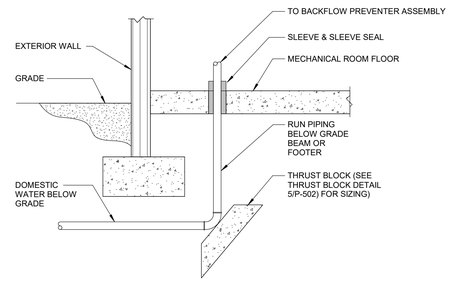
2 BACKFLOW PREVENTERS PIPING DIAGRAM

Scale: No Scale



6 HOT WATER RECIRCULATION PUMP DETAIL

Scale: No Scale



3 DOMESTIC WATER SERVICE ENTRANCE DETAIL

Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE EMPLOYEE No. 12100087 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER | ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING DETAILS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

Drawing Number: P-502

Dwg 9 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbuttai.rvt
6/16/2025 4:27:11 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

PLUMBING LOAD SUMMARY

* - PRIVATE FIXTURES

MARK	DESCRIPTION	QUANTITY	DFU EACH	DFU	CW WSFU EACH	CW WSFU	HW WSFU EACH	HW WSFU	TOTAL WSFU EACH	TOTAL WSFU
P-101*	WATER CLOSET, FLUSH VALVE, FLOOR MOUNT, PRIVATE	10	4	40	6	60	0	0	10	60
P-413*	LAVATORY, COUNTER MOUNT, WRIST BLADES, PRIVATE	9	1	9	0.5	4.5	0.5	4.5	0.7	6.3
P-420*	LAVATORY, COUNTER MOUNT, SENSOR, PRIVATE	1	1	1	0.5	0.5	0.5	0.5	0.7	0.7
P-701*	SHOWER BATH FIXTURE, DETACHABLE PLASTIC HOSE SPRAY, PRIVATE	10	2	20	1	10	1	10	1.4	14
	TOTAL LOAD (FIXTURE UNITS)	30		70		75		15		81
	CONTINIOUS DEMAND (GPM): 5 GPM EACH HYDRANT					20		-		20
	TOTAL DEMAND (GPM)					80		18		82
	MINIMUM LINE SIZE			4"		2"		1-1/2"		2"

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	QUANTITY	WASTE PIPE	VENT PIPE	COLD WATER	HOT WATER	WRIST BLADE HANDLES	ELECTRIC SENSOR	NOTES
FD-E	FLOOR DRAIN, ROUND, 4" OUTLET	2	4"	2"	-	-	-	-	-
FD-Z	TRENCH DRAIN, RECTANGULAR, 2" OUTLET	10	2"	2"	-	-	-	-	-
OD-1	OVERFLOW ROOF DRAIN	4	-	-	-	-	-	-	-
P-101*	WATER CLOSET, FLUSH VALVE, FLOOR MOUNT, PRIVATE	10	4"	2"	1"	-	-	YES	-
P-413*	LAVATORY, COUNTER MOUNT, WRIST BLADES, PRIVATE	9	1 1/2"	1 1/2"	3/8"	3/8"	YES	NO	-
P-420*	LAVATORY, COUNTER MOUNT, SENSOR, PRIVATE	1	1 1/2"	1 1/2"	3/8"	3/8"	NO	YES	-
P-701*	SHOWER BATH FIXTURE, DETACHABLE PLASTIC HOSE SPRAY, PRIVATE	10	2"	1 1/2"	1/2"	1/2"	-	NO	-
P-801	WALL HYDRANT	4	-	-	3/4"	-	-	-	-
RD-1	PRIMARY ROOF DRAIN	4	-	-	-	-	-	-	-

PLUMBING BACKFLOW PREVENTER SCHEDULE

MARK	LOCATION	SYSTEM	TYPE	FLOW	INLET PRESSURE	SIZE	NOTES
7A-BFP-1	MECHANICAL 104	DOMESTIC COLD WATER	REDUCED PRESSURE PRINCIPLE	100.0 GPM	60.00 psi	3"	1
7A-BFP-2	MECHANICAL 104	DOMESTIC COLD WATER	REDUCED PRESSURE PRINCIPLE	100.0 GPM	60.00 psi	3"	1

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING RECIRCULATION PUMP SCHEDULE

MARK	LOCATION	SYSTEM	TYPE	PERFORMANCE			MIN % EFF	SPEED CONTROL	ELECTRICAL			NOTES
				FLOW	HEAD FT	TEMPERATURE			HP	PHASE	VOLTAGE	
7A-DRP-1	MECHANICAL 104	HOT WATER RETURN	CARTRIDGE	5.0 GPM	8.5	140 °F	70	CONSTANT	1/25	1	115	1

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. INTERLOCK WITH RESPECTIVE HEAT PUMP WATER HEATER, SUITABLE FOR DOMESTIC WATER USE.

PLUMBING EXPANSION TANK SCHEDULE

MARK	LOCATION	TYPE	APPROX. SYSTEM VOLUME	MIN TEMP	MAX TEMP	INITIAL PRESSURE IN TANK	MAX OPERATING PRESSURE	MIN VOLUME TANK	MIN ACCEPTANCE VOLUME	NOTES
7A-ET-1	MECHANICAL 104	DIAPHRAGM	700.0 gal	45 °F	140 °F	50 psi	90 psi	26.0 gal	10.0 gal	1

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING MIXING VALVE SCHEDULE

MARK	LOCATION	TYPE	OUTLET PIPE SIZE	FLOW	INLET TEMP	OUTLET TEMP	ELECTRICAL		NOTES
							VOLT	PHASE	
7A-MTMV-1	MECHANICAL 104	DIGITAL	1 1/2"	50.0 GPM	140 °F	130 °F	120	1	1

NOTES:
1. BASIS OF DESIGN IS LEONARD NUCLEAR MODEL NV-150-LF OR EQUAL.

PLUMBING HEAT PUMP WATER HEATER SCHEDULE

MARK	LOCATION	BTUH HEATING	INLET WATER TEMP	OUTLET WATER TEMP	RECOVERY GPH @ 76° F RISE	ELECTRICAL		NOTES
						RLA	VOLTAGE	
7A-HPWH-1	MECHANICAL 104	291283	50 °F	140 °F	270	30.1	440V-480/3PH/60HZ	1
7A-HPWH-2	MECHANICAL 104	291283	50 °F	140 °F	270	30.1	440V-480/3PH/60HZ	1

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE SHELTON WILLIAM CONLEY REGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA | U.S. Department of Veterans Affairs

Drawing Title: PLUMBING SCHEDULES

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

Drawing Number: P-601

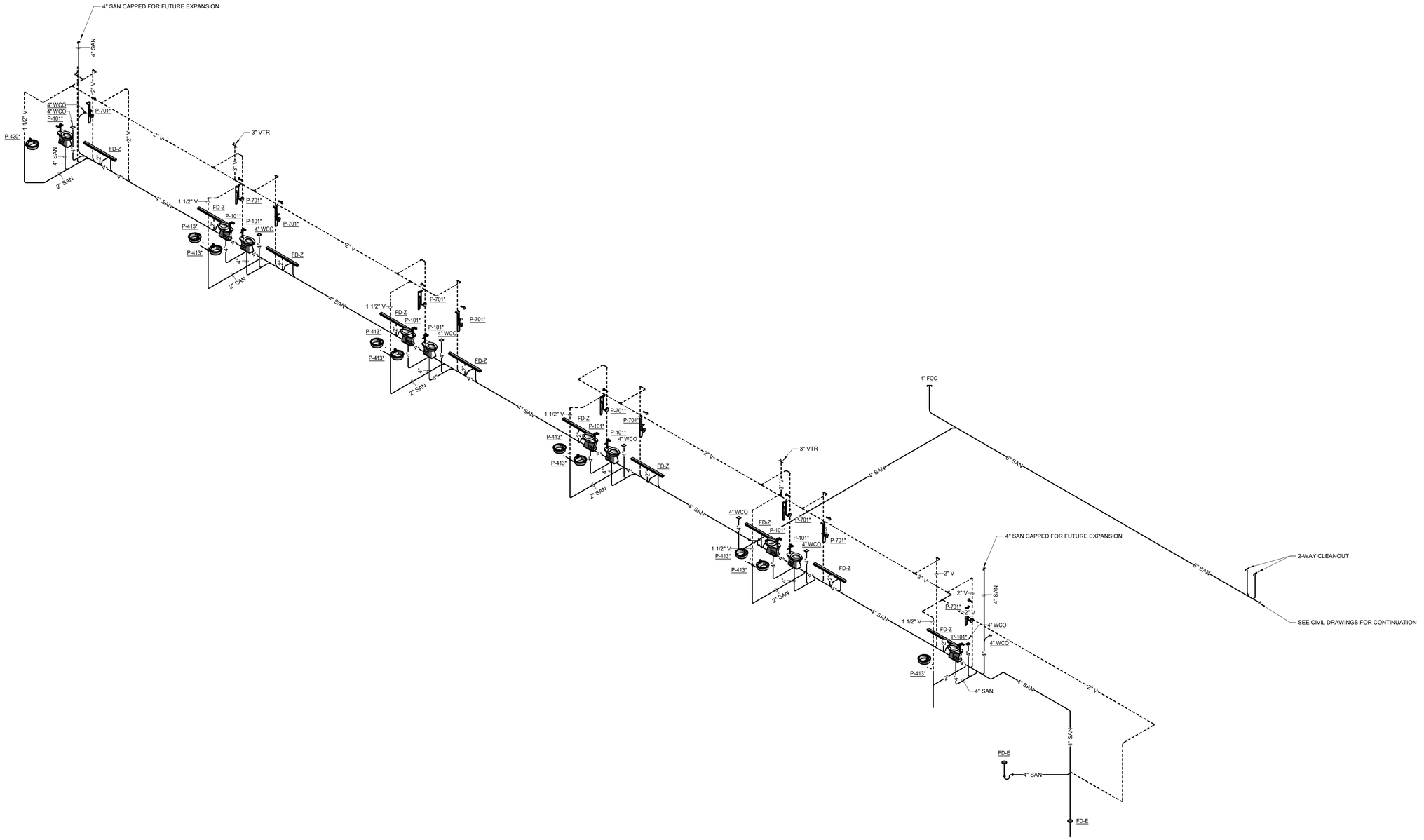
Dwg 10 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbuddi.rvt

6/19/2025 4:27:11 PM

VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 **SANITARY PIPE RISERS**
Scale: No Scale

FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY
REGISTERED
No. 12100087
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

APOGEE
Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: SANITARY PIPE RISERS

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

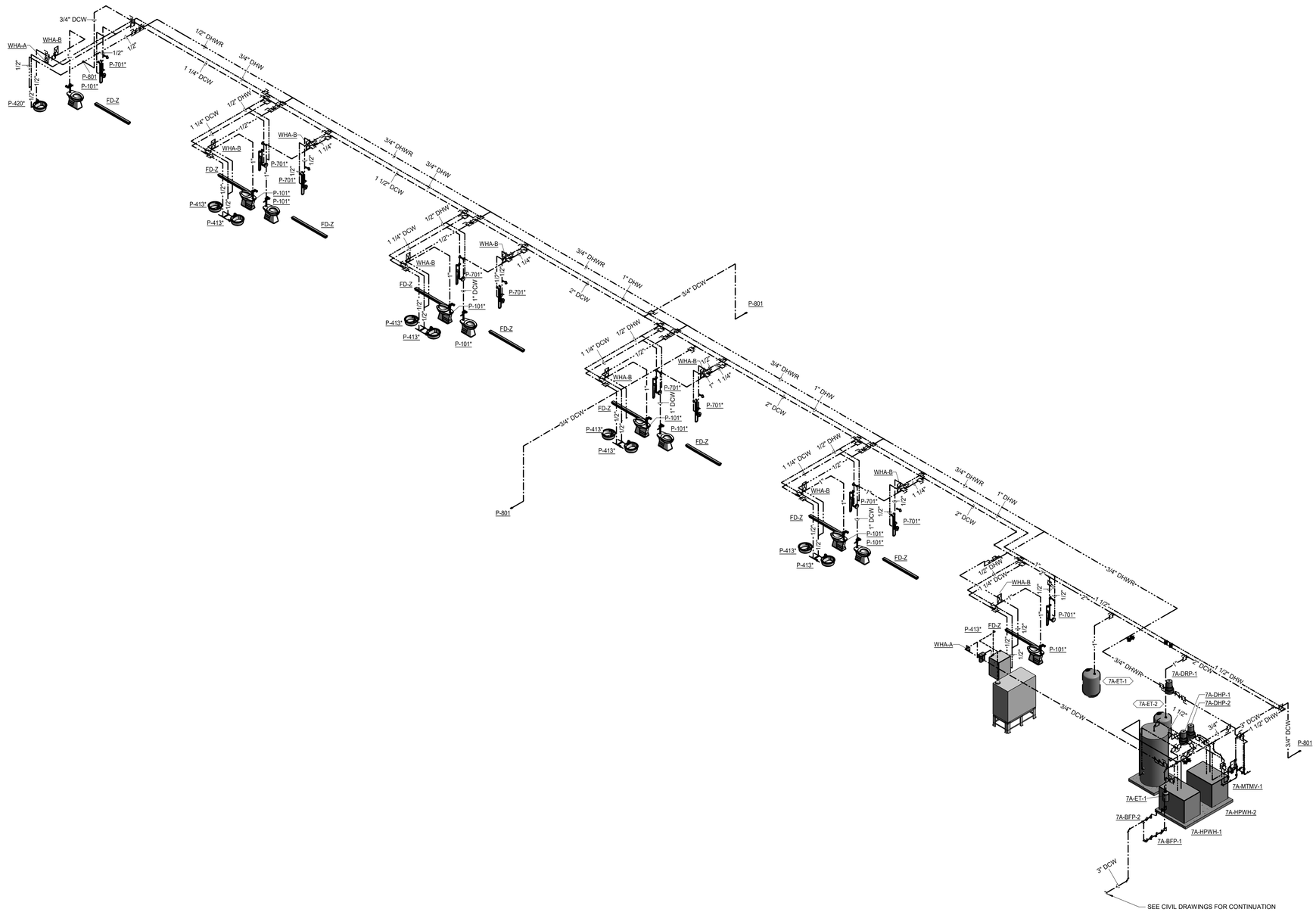
Approved

Date	Checked	Drawn
JUNE 23, 2025	WRS	TB

VA PROJECT NUMBER 586-401
Building Number # 7A
Drawing Number P-901
Dwg 11 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 4:27:13 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 **DOMESTIC PIPE RISERS**
Scale: No Scale

FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY
REGISTERED
No. 12100087
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE
Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: DOMESTIC PIPE RISERS

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

VA PROJECT NUMBER: 586-401
Building Number: # 7A
Drawing Number: P-902
Dwg 12 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 4:27:16 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

ROOF DRAIN SIZING CALCULATION

DESIGN CONDITIONS:
JACKSON, MS
4.1 INCHES OF RAINFALL PER HOUR

BUILDING DIMENSIONS:
LENGHT = 198 FT
WIDHT = 72 FT

PARAPET WALL = 2'-0"

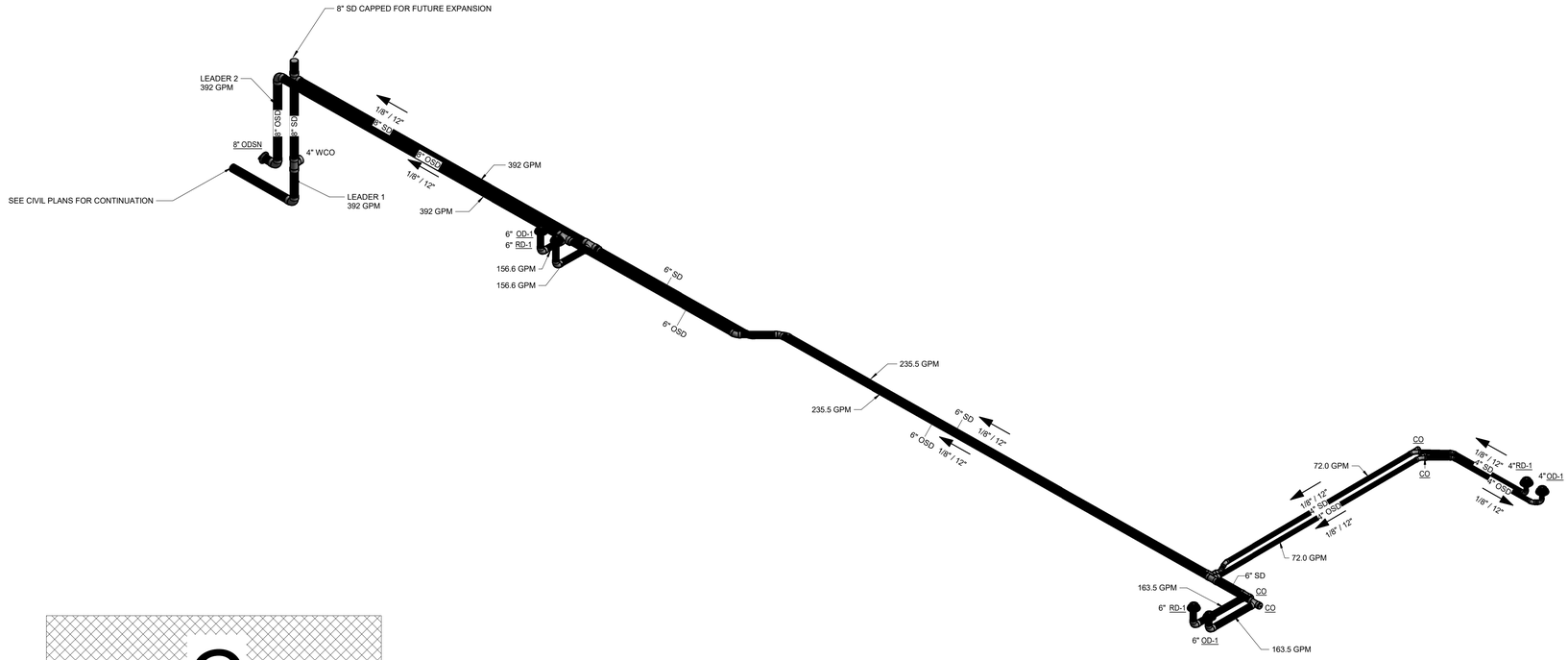
HORIZONTAL DRAIN CAPACITY:
4"ø @ 4.1"/HR = 84 GPM(1962 FT²) AT 1/8" PER FOOT SLOPE
6"ø @ 4.1"/HR = 250 GPM(5862 FT²) AT 1/8" PER FOOT SLOPE
8"ø @ 4.1"/HR = 542 GPM(12710 FT²) AT 1/8" PER FOOT SLOPE
10"ø @ 4.1"/HR = 987 GPM(23137 FT²) AT 1/8" PER FOOT SLOPE

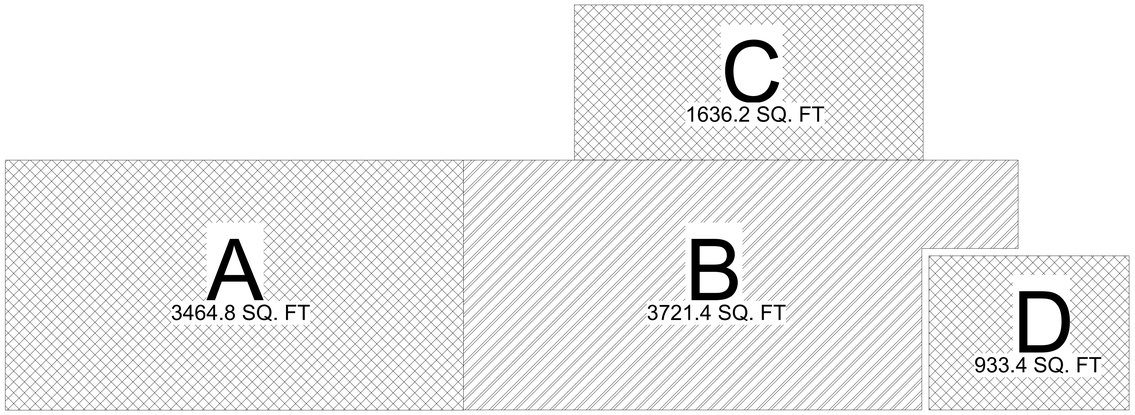
VERTICAL LEADER CAPACITY:
4"ø @ 4.1"/HR = 138 GPM(3227 FT²)
6"ø @ 4.1"/HR = 411 GPM(9645 FT²)
8"ø @ 4.1"/HR = 892 GPM(20911 FT²)
10"ø @ 4.1"/HR = 1623 GPM(38067 FT²)

AREA A + 50% PARAPET WALL = 156.6 GPM(3672 FT²)
AREA B + 50% PARAPET WALL = 163.5 GPM(3833 FT²)
AREA C + 50% PARAPET WALL = 72 GPM(1688 FT²)
AREA D + 50% PARAPET WALL = 43.5 GPM(1020 FT²)

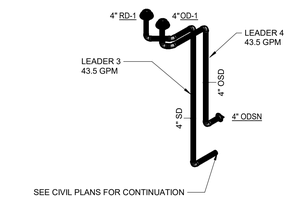
LEADERS 1, 2 (AREA C + AREA B + AREA A) (392.0 GPM(9193 FT²)) = 8" PIPE
LEADERS 3, 4 (AREA D) (43.5 GPM(1020 FT²)) = 4" PIPE

2 ROOF DRAIN SIZING CALCULATION
Scale: No Scale





3 ROOF AREA PLAN
Scale: No Scale



1 STORM PIPE RISERS
Scale: No Scale

FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY
REGISTERED
No. 12100087
STATE OF INDIANA
PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

APOGEE
Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.

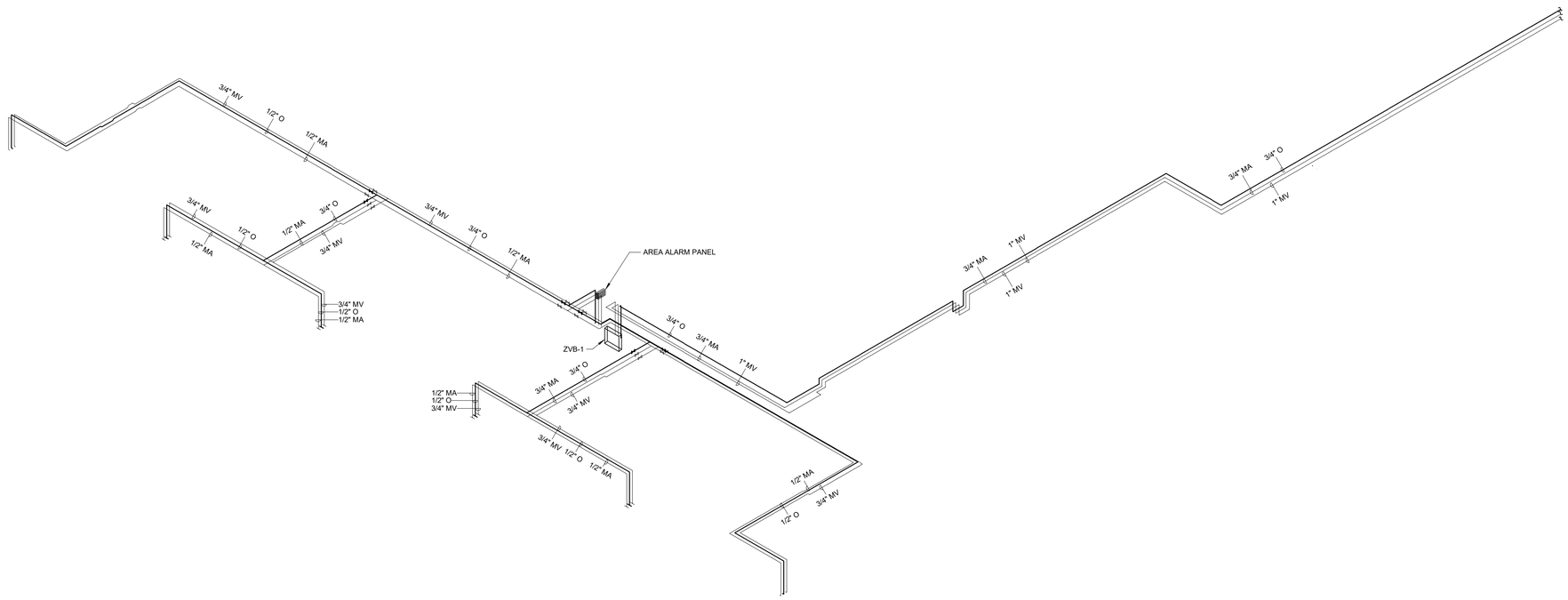
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: STORM PIPE RISERS
Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
Approved
Date: JUNE 23, 2025
Checked: WRS
Drawn: TB
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Drawing Number: P-903
Dwg 13 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudai.rvt
6/16/2025 4:27:19 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 MEDICAL GAS PIPE RISERS
Scale: No Scale

FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIRLEY
REGISTERED
No. 12100087
STATE OF
INDIANA
PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

APOGEE
Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: MEDICAL GAS PIPE RISERS
Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD
Approved
Date: JUNE 23, 2025 | Checked: WRS | Drawn: TB

VA PROJECT NUMBER: 586-401
Building Number: # 7A
Drawing Number: P-904
Dwg 14 of 14

C:\Revit projects\MP_23-060-VA Jackson-Construct CLC_R23_tbudak.rvt
6/18/2025 4:27:21 PM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

ALTERNATE NOTES

BID DEDUCT ALTERNATE #1
ALL WORK IN CONTRACT EXCEPT CHANGE FENCE AND PYLONS TO METAL FENCE. SEE SHEET A-101.1.

BID DEDUCT ALTERNATE #2
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 AND SUBSTITUTE BRICK IN PLACE OF RAINSCREEN. SEE SHEET A-201.1.

BID DEDUCT ALTERNATE #3
ALL WORK IN CONTRACT EXCEPT DEDUCT #1, #2, AND REMOVE SCREEN SYSTEM AT FIRST-FLOOR PORCH. SEE SHEET A-201.1.

BID DEDUCT ALTERNATE #4
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #3 AND REMOVE SCREEN SYSTEM AT GROUND FLOOR PORCH. SEE SHEET A-201.1.

BID DEDUCT ALTERNATE #5
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #4 AND OMIT LANDSCAPE/HARDSCAPE IN THE SOUTHERN COURTYARD. SEE SHEET A101.1.

BID DEDUCT ALTERNATE #6
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #5 AND ELIMINATE SCREEN PORCH, INCLUDING ASSOCIATED LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, AND NOTIFICATION DEVICES. INSTALL LIGHT FIXTURE M1E AT DOUBLE DOORS EXITING THE BUILDING. INSTALL PULL STATION AT DOUBLE DOORS EXITING THE BUILDING. SEE SHEETS EL101, EP101, AND FA101.

BID DEDUCT ALTERNATE #7
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #6 AND ELIMINATE LANDSCAPE LIGHTING, INCLUDING LIGHT FIXTURES AND LIGHTING CONTROLS. SEE SHEET ES101.

BID DEDUCT ALTERNATE #8
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #7 AND OMIT CANOPIES. SEE SHEET A-105.

BID DEDUCT ALTERNATE #9
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #8 AND ELIMINATE NORTH COURTYARD. SEE SHEET A-101.1.

BID DEDUCT ALTERNATE #10
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #9 AND REDUCE LANDSCAPING, TREE, AND SHRUB CALIPERS. SEE SHEET A-101.1.

BID DEDUCT ALTERNATE #11
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #10 AND ELIMINATE THIRD CHILLER, INCLUDING ASSOCIATED BREAKER, DISCONNECT, AND WIRING. SEE SHEET E-401.

BID DEDUCT ALTERNATE #12
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #11 AND MOVE CEILING LIFTS TO ACTIVATION BUDGET. SEE SHEET A-104.1.

BID DEDUCT ALTERNATE #13
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #12 AND PLACE WINDOW SHADES IN THE ACTIVATION BUDGET.

BID DEDUCT ALTERNATE #14
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #13 AND ELIMINATE WINDOW SOFFITS AND SOLID SURFACE SILLS. SEE SHEET A-512 DETAIL 10.

BID DEDUCT ALTERNATE #15
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #14 AND SHELL FIVE RESIDENT ROOMS. INSTALL ELECTRICAL WIRING, BOXES, SWITCHES AS SHOWN, EXCLUDING LIGHT FIXTURES C1 AND D2. INSTALL LIGHT FIXTURE F1 AND CIRCUIT TO WALL SWITCH PER DETAIL 5/E-401. SEE SHEET EL101.

BID DEDUCT ALTERNATE #16
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #15 AND ELIMINATE BENCHES. SEE SHEET A-101.1.

MECHANICAL ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
AAHX	AIR TO AIR HEAT EXCHANGER
AB	AIR BLENDER
AAV	AUTOMATIC AIR VENT
ACC	AIR-COOLED CONDENSER
ACCH	AIR-COOLED CHILLER
ACCU	AIR-COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
ACD	AUTOMATIC CONTROL DAMPER, MODULATING
ACD-TP	AUTOMATIC CONTROL DAMPER,TWO POSITION
AD	ACCESS DOOR
AF	AFTER FILTER
AFCV	AIR FLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AFW	AIR FOIL WHEEL (FAN)
AHU	AIR-HANDLING UNIT
AMP	AMPERAGE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AW	AIR WASHER
AXF	AXIAL FLOW
B	BOILER
BD	BUTTERFLY DAMPER
BDD	BACKDRAFT DAMPER
BDR	BASE BOARD RADIATOR
BFP	BACKFLOW PREVENTER
BFT	BOILER PLANT FIRE TUBE
BHP	BRAKE HORSEPOWER
BHW	HOT WATER HEATING BOILER
BHX	BOILER BLOWDOWN HEAT EXCHANGER
BIW	BACKWARD INCLINED WHEEL (FAN)
BSC	BIOLOGICAL SAFETY CABINETS
BT	BUFFER TANK
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CENTIGRADE (CELSIUS)
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CENT	CENTRIFUGAL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CFP	CHEMICAL FEED PUMP
CH	CHILLER
CHWP	CHILLED WATER PUMP
CHW	CHILLER WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CM	CARBON MONOXIDE
CM	CUBIC METER
CM/S	CUBIC METER PER SECOND
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR UNIT
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER (POTABLE)
CHWCC	CHILLED WATER COOLING COIL
D	DAMPER - AUTOMATIC
D-1	OUTDOOR AIR DAMPER
D-2	RETURN AIR DAMPER
D-3	RELIEF AIR DAMPER
D-4	ECONOMIZER OUTDOOR AIR DAMPER
dB	DECIBELS
Db	DRY-BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DF	DIFFUSER
DIA	DIAMETER
DIW	DEIONIZED WATER
DP	DEW POINT TEMPERATURE
DP	DIFFUSER PLATE
DPA	DIFFERENTIAL PRESSURE ASSEMBLY
DPS	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION
DXCC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECC	ENGINEERING CONTROL CENTER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EGS	EMERGENCY GAS SHUTOFF
EH	EXHAUST HOOD
EJ	EXPANSION JOINT
EMD	END OF MAIN DRIP (STEAM)
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
F/SDPR	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT (4 PIPE)
FCW	FORWARD CURVED WHEEL (FAN)
FD	FLOOR DRAIN
FD	FIRE DAMPER
FF	FINAL FILTER
FM	FLOW METER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBER REINFORCED POLYESTER
FS	FLOW SWITCH
FSTAT	FREEZESTAT
FT	FEET
FT-LB	FOOT-POUND
FTR	FIN TUBE RADIATION
FV	FACE VELOCITY
GA	GAUGE
GAL	GALLONS
GH	GRAVITY HOOD
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GS	GALVANIZED STEEL
H	HUMIDIFIER
H&CW	HOT & COLD WATER
HAC	HOUSEKEEPING AID CLOSET
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD
HD	HOOD
HHW	HEATING HOT WATER
HHWC	HEATING HOT WATER COIL
HHWP	HEATING HOT WATER PUMP
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HOA	HAND/OFF/AUTOMATIC
HP	HEAT PUMP
HP	HORSEPOWER
HPDT	HIGH PRESSURE DRIP TRAP
HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)
HPS	HIGH PRESSURE SUPPLY (STEAM)
HRC	HEAT RECOVERY COIL
HRD	HEAT RECOVERY DEVICE
HRP	HYDRONIC RADIANT (CEILING) PANEL
HRW	HEAT RECOVERY WHEEL
HSTAT	HUMIDISTAT
HUM	HUMIDIFIER UNIT MOUNTED
HVU	HEATING AND VENTILATING UNIT
HW	HOT WATER
HWC	HOT WATER COIL
HWUH	HOT WATER UNIT HEATER
HX	HEAT EXCHANGER
Hz	HERTZ
I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
IBT	INVERTED BUCKET TRAP
ICF	IN-LINE CENTRIFUGAL FAN
ICU	INTENSIVE CARE UNIT
ID	INSIDE DIAMETER
IFB	INTEGRAL FACE AND BYPASS
IN	INCHES
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
IPLV	INTEGRATED PART LOAD VALUE
IRH	INFRARED HEATER
IS	INSECT SCREEN
IV	INLET VANES
kg	KILOGRAM
kg/HR	KILOGRAM PER HOUR
kPa	KILOPASCAL
kW	KILOWATT
kWh	KILOWATT HOUR
L	LITER
L/s	LITERS PER SECOND
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LH	LATENT HEAT
LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)
LPS	LOW PRESSURE SUPPLY (STEAM)
LSD	LINEAR SLOT DIFFUSER
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVG	LEAVING
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
M	METER, SI UNIT
M/s	METERS PER SECOND (OR METERS/SECOND)
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MB	MIXING BOX
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MER	MECHANICAL EQUIPMENT ROOM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MM	MILLIMETER
MOV	MOTOR OPERATED VALVE
MPR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)
MPS	MEDIUM PRESSURE SUPPLY (STEAM)
MTD	MEAN TEMPERATURE DIFFERENCE
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOAA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OD	OUTSIDE DIAMETER
OR	OPERATING ROOM
OSA	OUTSIDE SUPPLY AIR (CONDITIONED)
P	PUMP
PC	PUMPED CONDENSATE
PCF	POUNDS PER CUBIC FOOT (FEET)
PD	PRESSURE DROP
PF	PRE-FILTER
PG	PRESSURE GAGE
PHC	PREHEAT COIL
PHCP	PREHEAT COIL PUMP
PPM	PARTS PER MILLION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH – ABSOLUTE
PSIG	POUNDS PER SQUARE INCH – GAGE
PSS	PRIMARY SECONDARY SYSTEM
PSV	PRESSURE SAFETY VALVE
R/E	RETURN OR EXHAUST
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RDS	ROOM DATA SHEETS
REA	RELIEF AIR
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SAD	SOUND ATTENUATING DEVICE
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SCFM	STANDARD CUBIC FEET PER MINUTE
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SD	SUPPLY AIR DIFFUSER
SDPR	SMOKE DAMPER
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SH	STEAM HUMIDIFIER
SHC	STEAM HEATING COIL
SI	SQUARE INCHES
SP	STATIC PRESSURE
SP GR	SPECIFIC GRAVITY
SPD	SUPPLY PROCESS AND DISTRIBUTION
SPRV	STEAM PRESSURE REDUCING VALVE
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
SSR	SOLID SEPARATOR
ST	STEAM TRAP
SV	STEAM SAFETY VALVE
SVS	STEAM VENT SILENCER
T & PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TDH	TOTAL DYNAMIC HEAD
TDS	TOTAL DISSOLVED SOLIDS
TP	TRAP
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
UC	UNDER CUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
V	VALVE
VAF	VANE-AXIAL FAN
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VFD	VARIABLE FREQUENCY DRIVE
VHA	VETERANS HEALTH ADMINISTRATION
VI	VIBRATION ISOLATOR
VP	VACUUM PUMP
VPS	VARIABLE PRIMARY SYSTEM
VR	VACUUM (STEAM CONDENSATE) RETURN
VSD	VARIABLE SPEED DRIVE
VUH	VERTICAL UNIT HEATER
W	WATTS
Wb	WET-BULB (TEMPERATURE)
WFCV	WATER FLOW CONTROL VALVE
WFM	WATER FLOWMETER
WFMD	WATER FLOW MEASURING DEVICE
WG	WATER GAGE
WPD	WATER SIDE PRESSURE DROP
XT	EXPANSION TANK
YR	YEAR

MECHANICAL LEGEND

- CO2 — CARBON DIOXIDE SENSOR
- T — THERMOSTAT OR TEMPERATURE SENSOR
- H — HUMIDISTAT OR HUMIDITY SENSOR
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR SLOT DIFFUSER
- BALANCING DAMPER
- F — FIRE DAMPER
- SD — SMOKE DAMPER
- FS — FIRE / SMOKE DAMPER
- MOTORIZED DAMPER
- ROUND FLEX DUCT
- R — INCLINED RISE, IN DIRECTION OF AIRFLOW
- D — INCLINED DROP, IN DIRECTION OF AIRFLOW
- CONNECT NEW DUCT TO EXISTING
- LIMIT OF DEMOLITION
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
- VANED ELBOW (SHORT RADIUS)
- STANDARD RADIUS ELBOW (LONG RADIUS)
- 10x8 — NEW DUCT (INSIDE DIMENSIONS: WIDTH X DEPTH)
- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE DEMOLISHED
- DUCT TRANSITION
- END MOUNTED OR SIDEWALL GRILLE
- SUPPLY — TERMINAL UNIT SUPPLY DUCT BRANCH (CONICAL TAP)
- 45° SUPPLY — STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)
- 45° RETURN
- UP DN — SUPPLY DUCT (UP & DOWN)
- UP DN — EXHAUST DUCT (UP & DOWN)
- UP DN — RETURN DUCT (UP & DOWN)
- S-60 — HIGH PRESSURE STEAM PIPING (60 PSI)
- CR-60 — HIGH PRESSURE STEAM CONDENSATE RETURN
- S-30 — MEDIUM PRESSURE STEAM PIPING (16 PSI AND 59 PSI)
- CR-30 — MEDIUM PRESSURE STEAM CONDENSATE RETURN
- S-15 — LOW PRESSURE STEAM PIPING (15 PSI AND BELOW)
- CR-15 — LOW PRESSURE STEAM CONDENSATE RETURN
- CHWS — CHILLED WATER SUPPLY PIPING
- CHWR — CHILLED WATER RETURN PIPING
- HWS — HEATING HOT WATER SUPPLY PIPING
- HWR — HEATING HOT WATER RETURN PIPING
- RLS — REFRIGERANT LINE SET (LIQUID AND SUCTION)
- D — CONDENSATE DRAIN LINE
- PIPE UP
- PIPE DOWN
- BOTTOM CONNECTION
- TOP CONNECTION
- CAPPED OR PLUGGED PIPE
- CONNECT TO EXISTING PIPE
- LIMIT OF DEMOLITION
- GLOBE VALVE
- GATE VALVE
- BALL VALVE
- CHECK VALVE
- STEAM SAFETY VALVE
- PRESSURE REGULATING VALVE
- WYE STRAINER VALVE
- BALANCING VALVE
- MODULATING TWO-WAY CONTROL VALVE
- MODULATING THREE-WAY CONTROL VALVE
- TWO POSITION CONTROL VALVE
- STEAM TRAP
- DRAIN VALVE
- TEST PLUG
- STEAM PRESSURE REDUCING VALVE
- INLINE CENTRIFUGAL PUMP

MECHANICAL DEMOLITION GENERAL NOTES

1. VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. NOTIFY COR REGARDING CONFLICTS BEFORE PROCEEDING WITH WORK.
2. REMOVED ITEMS REMAIN PROPERTY OF GOVERNMENT UNTIL COR DETERMINES THAT THEY ARE NOT REQUIRED. REMOVE FROM SITE ITEMS NOT BEING RETAINED BY GOVERNMENT OR REINSTALLED AS PART OF THIS WORK.
3. DO NOT DISTURB ITEMS NOT INDICATED FOR DEMOLITION.
4. VERIFY SIZE AND LOCATION OF EXISTING UTILITIES PRIOR TO START OF DEMOLITION. RELOCATE, REMOVE AND ADJUST MECHANICAL AND ELECTRICAL ITEMS AS NECESSARY TO COORDINATE WITH NEW WORK.
5. AFTER DEMOLITION IS COMPLETE, PATCH AND REPAIR FINISHES TO MATCH EXISTING ADJACENT CONDITIONS.
6. COORDINATE DEMOLITION WITH COR. SUBMIT SHUTDOWN PLAN AND SCHEDULE TO COR FOR REVIEW AND APPROVAL.
7. PROTECT EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING DEMOLITION. REPAIR UTILITIES AND SERVICES DAMAGED AT NO ADDITIONAL COST.
8. TEMPORARILY MOVE OR TAKE EQUIPMENT OUT OF SERVICE AS NECESSARY TO COMPLETE WORK.
9. SAWCUT OR CORE DRILL CONCRETE FLOOR AS REQUIRED FOR DEMOLITION WORK INDICATED. COORDINATE WITH NEW MECHANICAL WORK AND WORK OF OTHER TRADES.

MECHANICAL GENERAL NOTES

1. WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND APPLICABLE VA STANDARDS.
2. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
3. PROVIDE NEW MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED.
4. WHERE POSSIBLE, PROVIDE STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE REQUIRED.
5. EQUIPMENT OR MATERIAL DEVIATIONS FROM INDICATED CONTRACT REQUIREMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE COR. SUBMIT PROPOSED EQUIPMENT DEVIATIONS THAT ARE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED, AS SOLELY DETERMINED BY THE COR.
6. PROVIDE MECHANICAL EQUIPMENT THAT IS LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
7. INSTALL EQUIPMENT AS INDICATED, ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS, AND REPLACEMENT.
8. INSTALL EQUIPMENT WITH PROPER CLEARANCES FOR REQUIRED PIPING AND ELECTRICAL SERVICES AND CONNECTIONS. INSTALL EQUIPMENT WITH REQUIRED ACCESS AND CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND APPLICABLE CODES AND STANDARDS.
9. COORDINATE LOCATION, INSTALLATION, AND ROUTING OF DUCTWORK, PIPING, AND EQUIPMENT WITH WORK OF ALL OTHER TRADES.
10. PROVIDE SUPPORT FOR MECHANICAL EQUIPMENT. COORDINATE SUPPORT LOCATIONS WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
11. PROVIDE POWER CONNECTIONS TO EQUIPMENT PROVIDED UNDER THIS CONTRACT AS WORK OF DIVISION 26.
12. PROVIDE CONTROL WIRING FOR MECHANICAL EQUIPMENT AS WORK OF DIVISION 23.
13. DUCTWORK AND PIPING LAYOUTS AND LOCATIONS ARE SCHEMATIC. DO NOT SCALE THESE DRAWINGS. COORDINATE AND DETERMINE EXACT ROUTING OF DUCTWORK AND PIPING IN THE FIELD.
14. FIELD VERIFY DIMENSIONS BY ACTUAL MEASUREMENT AND OBSERVATION BEFORE ORDERING OR FABRICATING DUCTWORK, PIPING OR EQUIPMENT.
15. NOTIFY COR REGARDING DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND EXISTING CONDITIONS OR DIMENSIONS BEFORE PERFORMING WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE CONTRACTOR'S ACCEPTANCE OF EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF THE WORK.
16. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATION OF CEILING INSTALLED EQUIPMENT.
17. INSTALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE AND AS CLOSE AS POSSIBLE TO BUILDING WALLS, CEILING AND FLOOR AND ROOF STRUCTURE. PROVIDE OFFSETS, FITTINGS, AND DIMENSIONAL TRANSITIONS NOT SHOWN BUT REQUIRED TO MAINTAIN MINIMUM CLEAR SPACE TO BUILDING SURFACES AT NO ADDITIONAL COST.
18. PATCH, PAINT AND CLEAN SURFACES SUSTAINING DAMAGE ASSOCIATED WITH MECHANICAL WORK OF THIS CONTRACT, UNLESS NOTED OTHERWISE.
19. SUBMIT BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AT COMPLETION OF PROJECT.
20. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
21. MAKE A COMPLETE REVIEW OF DRAWINGS, INCLUDING SCHEDULES AND DETAILS, PRIOR TO BEGINNING MECHANICAL SYSTEM INSTALLATION. RESOLVE CONFLICTS WITH COR.
22. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS.
23. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY INDICATED OTHERWISE.
24. INSTALL PIPING FREE OF SAGS AND BENDS.
25. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION.
26. PIPING SHALL NOT BE ROUTED OVER TELECOM OR ELECTRICAL CLOSETS/ROOMS.
27. PREPARE DRAWINGS SHOWING MECHANICAL SYSTEMS AND EQUIPMENT FOR COORDINATION WITH WORK OF OTHER DIVISIONS AND WORK BY THE GOVERNMENT.
    A. INCLUDE PLAN VIEWS, SECTIONS, AND ELEVATIONS, AS REQUIRED, TO FULLY COORDINATE ALL NEW WORK WITH ITSELF AND EXISTING CONDITIONS.
    B. DRAWINGS SHALL SHOW, BUT NOT BE LIMITED TO, ALL DUCTWORK, AIR DISTRIBUTION, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID AND HEIGHT, BEAMS AND JOISTS (WITH ELEVATIONS MARKED), ELECTRICAL CONDUIT LARGER THAN 2 INCHES IN DIAMETER AND OTHER CEILING MOUNT DEVICES OR EQUIPMENT THAT PROTRUDE INTO THE CEILING CAVITY.
    C. IF THERE ARE OUTSTANDING ISSUES THAT CANNOT BE RESOLVED, CONSULT WITH COR FOR GUIDANCE AND MAKE CORRECTIONS IN ACCORDANCE WITH DIRECTIONS GIVEN.
    D. DO NOT BEGIN FABRICATION OR PLACE EQUIPMENT ORDERS UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED.
28. INSTALLATION COMMENCED PRIOR TO COORDINATION DRAWING APPROVAL IS TAKEN AT THE CONTRACTORS OWN RISK. MODIFY, MOVE OR RECONFIGURE WORK LACKING COORDINATION AT NO ADDITIONAL COST.
29. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL TESTING ASSOCIATED WITH MECHANICAL SYSTEM COMMISSIONING PER SPECIFICATIONS.

WALL RATING LEGEND

- 2 HOUR FIRE SEPARATION
- 1 HOUR FIRE SEPARATION
- S S S — SMOKE RATED

ANNOTATION SYMBOLS

#	NEW WORK KEYNOTE
#	DEMOLITION KEYNOTE
NEW	BOLD TEXT INDICATES NEW ITEM
EXISTING	ITALICIZED TEXT INDICATES EXISTING ITEM
## / #	DETAIL MODULE NUMBER; DETAIL OR SECTION MARK SHOWN ON DRAWING
	CONNECT TO EXISTING
	LIMIT OF DEMOLITION
SD-## ###	DIFFUSER TAG
##-VAV-#	EQUIPMENT TAG

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

JOHN ROSCOE SHIPLEY — REGISTERED PROFESSIONAL ENGINEER — No. 12100087 — STATE OF INDIANA
6/19/2025

PROJECT MANAGER

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

ACG Project Number 23-060

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL GENERAL INFORMATION

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP

VA PROJECT NUMBER 586-401

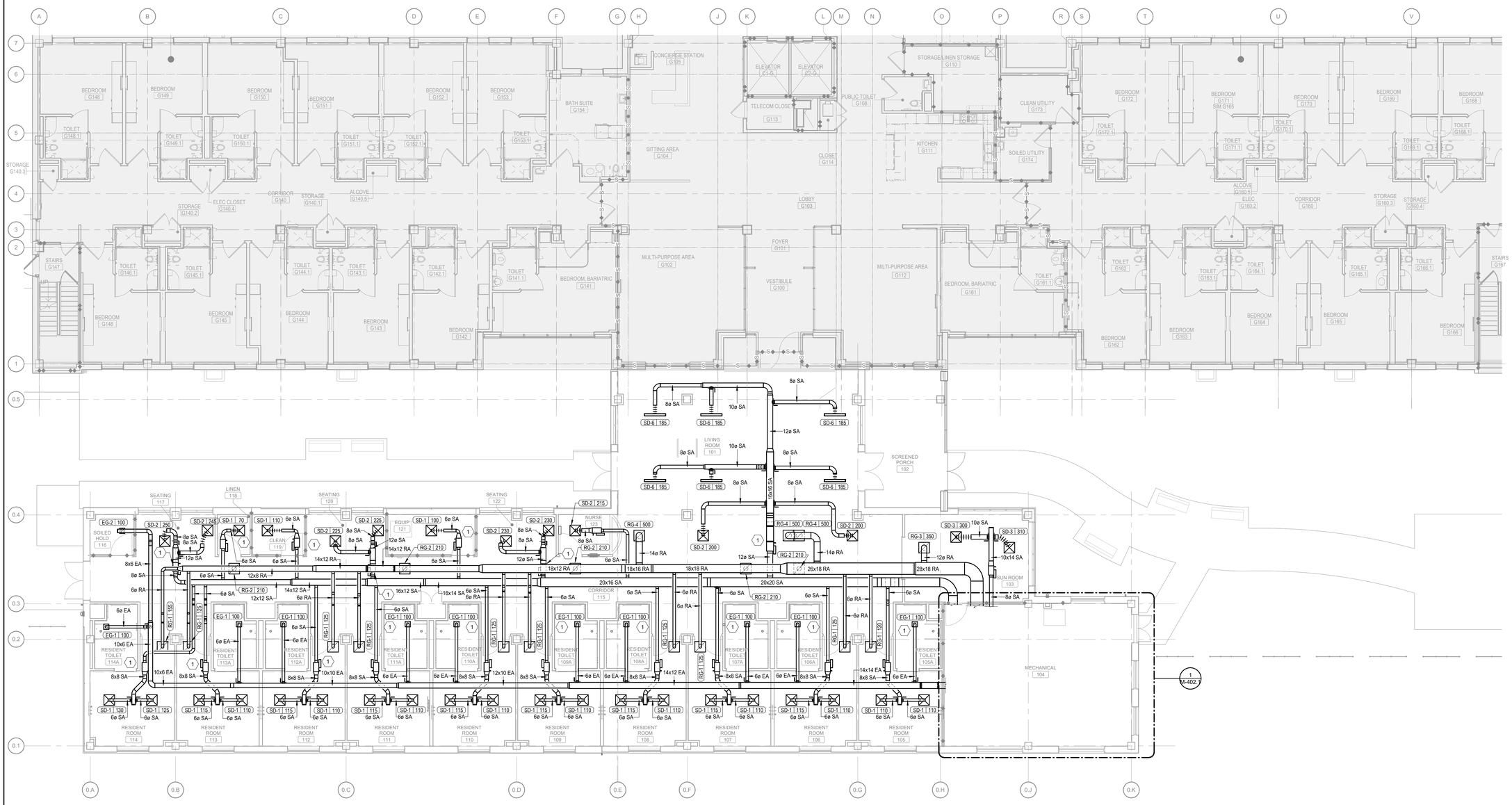
Building Number # 7A

Drawing Number M-001

Dwg 1 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:32:55 AM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 **GROUND FLOOR HVAC PLAN**
Scale: 1/8" = 1'-0"

SHEET NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. UNLESS NOTED OTHERWISE, ALL DIFFUSERS AND GRILLE RUN-OUTS ARE THE SAME SIZE AS THE NECK/DUCT CONNECTION SIZE SPECIFIED IN THE AIR DEVICE SCHEDULE.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. SEE ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AS WELL AS DIFFUSER AND GRILLE PLACEMENT WITH THE CEILING.

E. COORDINATE ALL THERMOSTAT LOCATIONS WITH ALL OTHER WALL MOUNTED OBJECTS BEFORE INSTALLATION.

KEY NOTES:

1 PROVIDE NEW SINGLE DUCT VAV UNITS AND NEW DIFFUSERS FOR COMPLETE INSTALLATION.

SCOPE OF WORK LEGEND

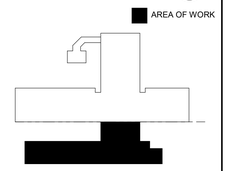
NOT IN SCOPE

IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY, JR. REGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	GROUND FLOOR HVAC PLAN
Location	G.V. MONTGOMERY VAMC 1500 E. WOODROW WILSON AVENUE JACKSON, MS 39216
Project Title	CLC RESIDENTIAL NEIGHBORHOOD
Approved	
Date	JUNE 23, 2025
Checked	WRS
Drawn	PRP
VA PROJECT NUMBER	586-401
Building Number	# 7A
Drawing Number	MH101
Dwg	2 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:33:15 AM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

1 ROOF MECHANICAL PLAN

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

0 4 8 16 NORTH

SHEET NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. UNLESS NOTED OTHERWISE, ALL DIFFUSERS AND GRILLE RUN-OUTS ARE THE SAME SIZE AS THE NECK/DUCT CONNECTION SIZE SPECIFIED IN THE AIR DEVICE SCHEDULE.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. SEE ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AS WELL AS DIFFUSER AND GRILLE PLACEMENT WITH THE CEILING.

E. COORDINATE ALL THERMOSTAT LOCATIONS WITH ALL OTHER WALL MOUNTED OBJECTS BEFORE INSTALLATION.

F. PROVIDE ANTI-SKID PADS TO SERVICE ALL ROOF MOUNTED EQUIPMENT.

KEY NOTES:

1 CONNECT RELIEF AIR DUCT TO NEW LOUVER.
2 PROVIDE AND INSTALL NEW HEAT RECOVERY CHILLERS ON EQUIPMENT RAILS ON ROOF. PROVIDE ANTI-SKID PAD FOR MAINTENANCE.
3 PROVIDE AND INSTALL NEW EXHAUST FAN ON ROOF. PROVIDE ANTI-SKID PAD FOR MAINTENANCE.

SCOPE OF WORK LEGEND

NOT IN SCOPE
IN SCOPE

KEY PLAN
SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

JOHN ROSCOE SHIPLEY No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

APOGEE Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

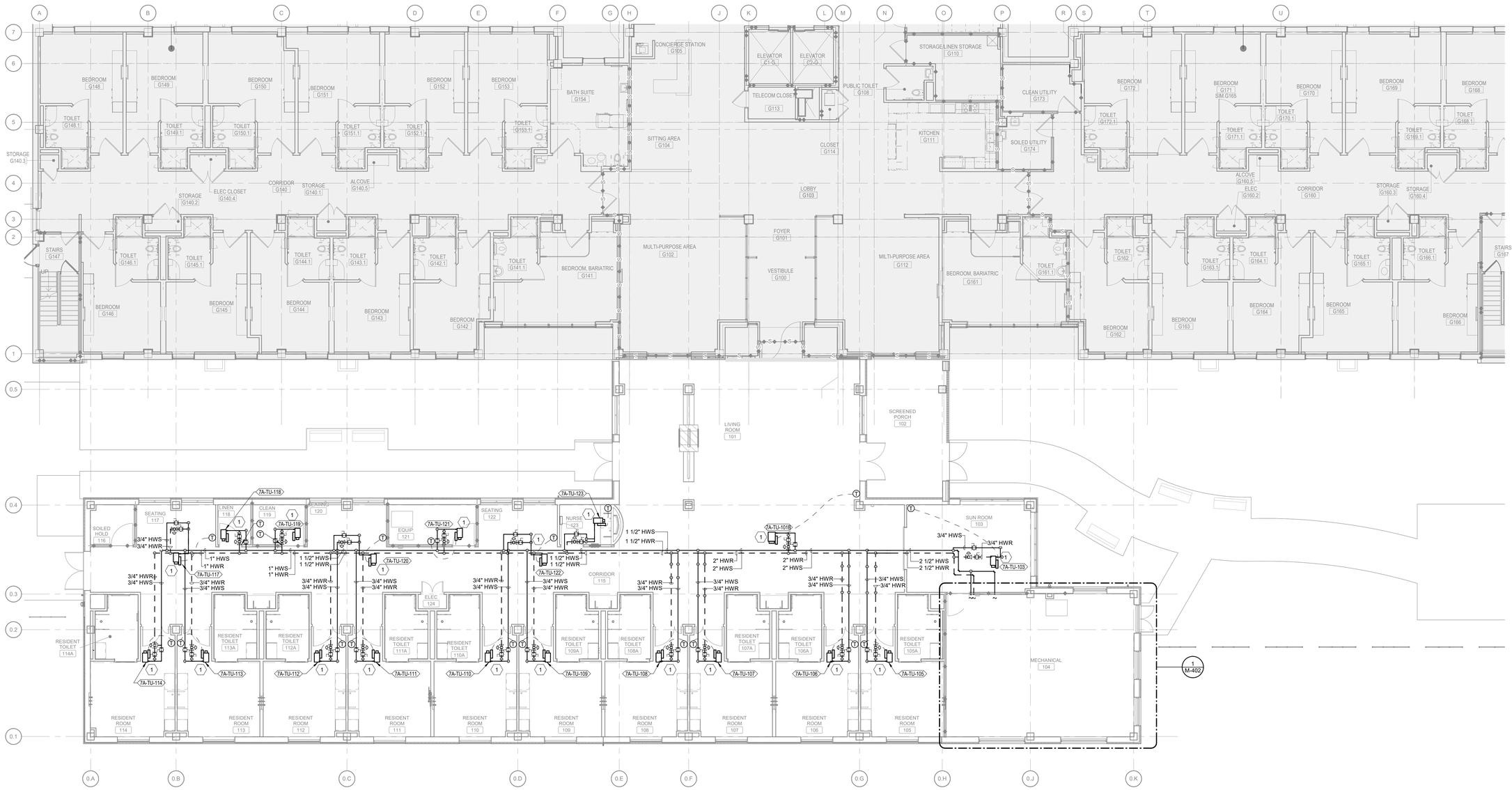
ACG Project Number 23-060

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ROOF HVAC PLAN
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Location: G.V. MONTGOMERY VAMC 1500 E. WOODROW WILSON AVENUE JACKSON, MS 39216
Approved:
Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP
Drawing Number: MH102
Dwg 3 of 15

6/18/2025 9:33:21 AM C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 GROUND FLOOR MECHANICAL PIPING PLAN

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

0 4 8 16 NORTH

SHEET NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. UNLESS NOTED OTHERWISE, ALL DIFFUSERS AND GRILLE RUN-OUTS ARE THE SAME SIZE AS THE NECK/DUCT CONNECTION SIZE SPECIFIED IN THE AIR DEVICE SCHEDULE.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. SEE ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AS WELL AS DIFFUSER AND GRILLE PLACEMENT WITH THE CEILING.

E. COORDINATE ALL THERMOSTAT LOCATIONS WITH ALL OTHER WALL MOUNTED OBJECTS BEFORE INSTALLATION.

(#) KEY NOTES:

1 CONNECT HWS/R PIPING TO NEW VAV UNITS.

SCOPE OF WORK LEGEND

NOT IN SCOPE

IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM SCOTT LOGG No. 12100087 STATE OF INDIANA ROSCOE SHAW PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR MECHANICAL PIPING PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP

Drawing Number: MP101

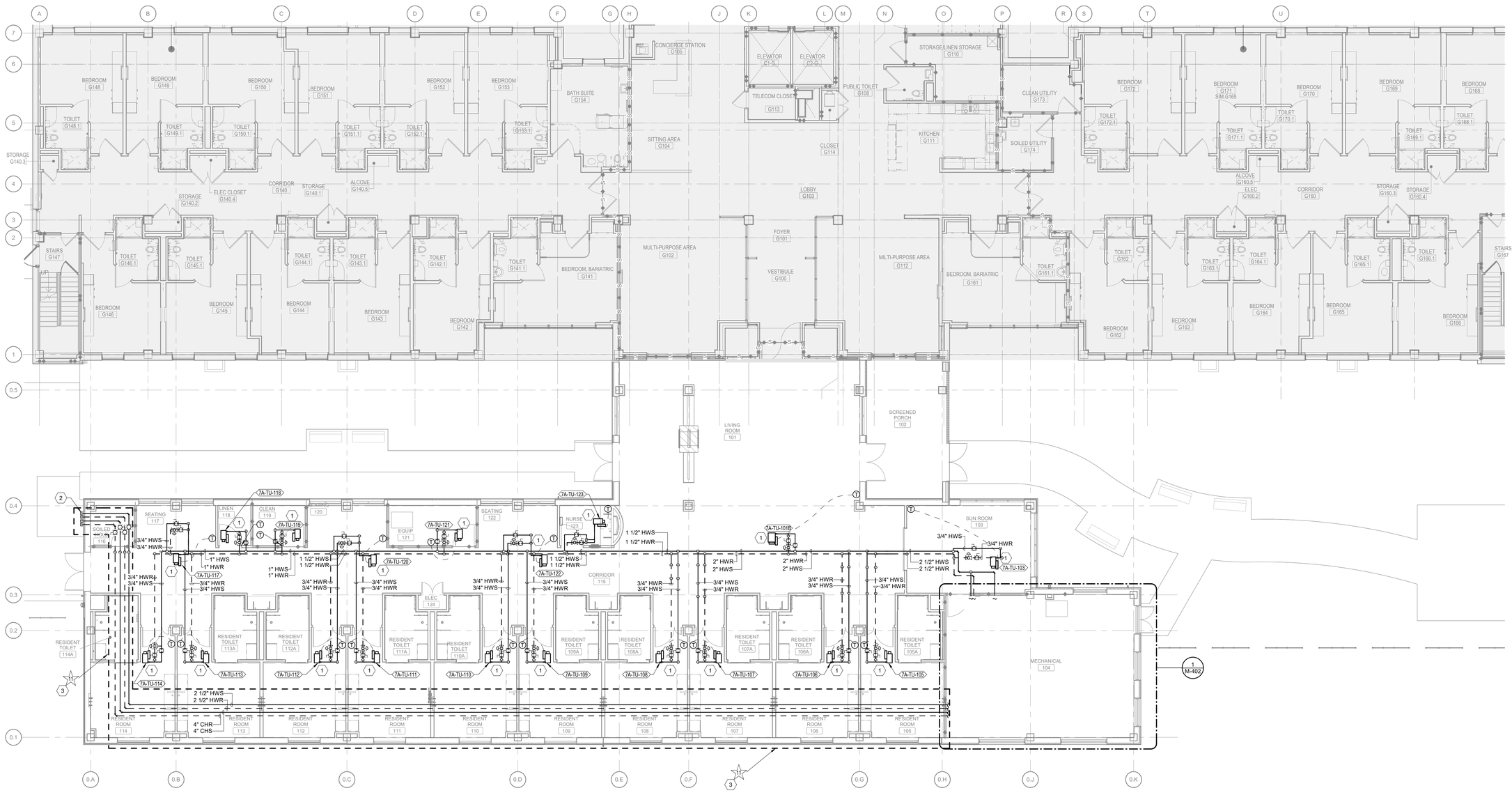
Dwg 4 of 15

C:\Users\rwhipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wwhipley.rvt

6/18/2025 9:33:24 AM

VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 GROUND FLOOR MECHANICAL PIPING PLAN

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

0 4 8 16 NORTH

SHEET NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. UNLESS NOTED OTHERWISE, ALL DIFFUSERS AND GRILLE RUN-OUTS ARE THE SAME SIZE AS THE NECK/DUCT CONNECTION SIZE SPECIFIED IN THE AIR DEVICE SCHEDULE.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. SEE ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AS WELL AS DIFFUSER AND GRILLE PLACEMENT WITH THE CEILING.

E. COORDINATE ALL THERMOSTAT LOCATIONS WITH ALL OTHER WALL MOUNTED OBJECTS BEFORE INSTALLATION.

KEY NOTES:

1 CONNECT HWS/R PIPING TO NEW VAV UNITS.
2 PROVIDE VALVED AND CAPPED CONNECTIONS FOR TEMPORARY CHILLER/BOILER.
3 PROVIDE PIPE FOR EXTERIOR CONNECTION FOR DEDUCT 13 ONLY.

SCOPE OF WORK LEGEND

NOT IN SCOPE

IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIRLEY No. 12100087 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR MECHANICAL PIPING PLAN - DEDUCT ALTERNATE

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

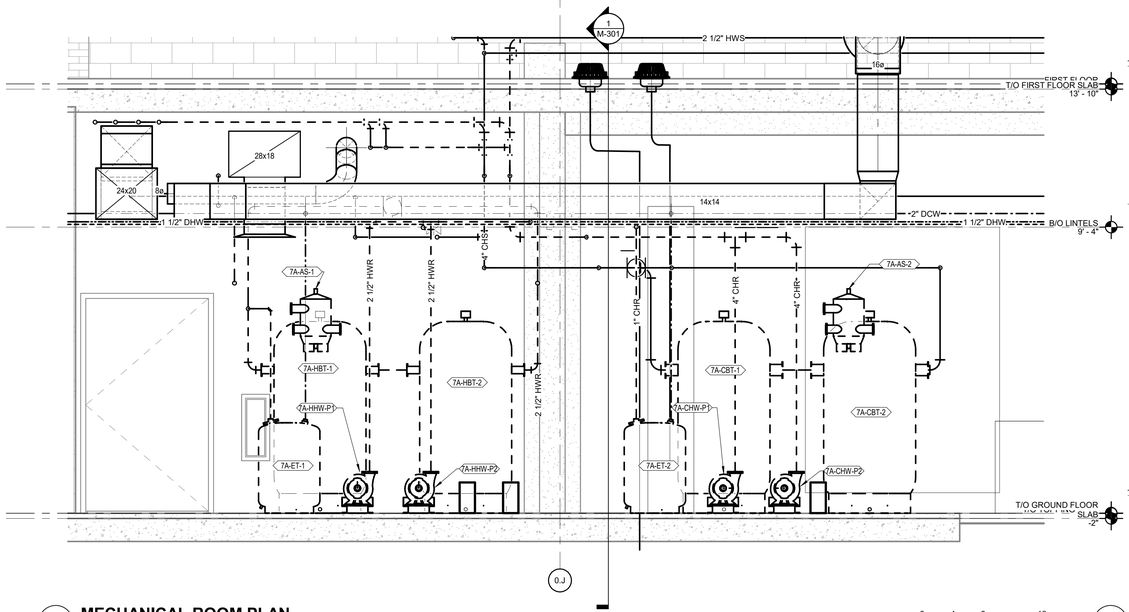
Date: JUNE 23, 2025 | Checked: WRS | Drawn: WRS

Drawing Number: MP101.1

Dwg 5 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:33:28 AM
VA FORM 08-6231

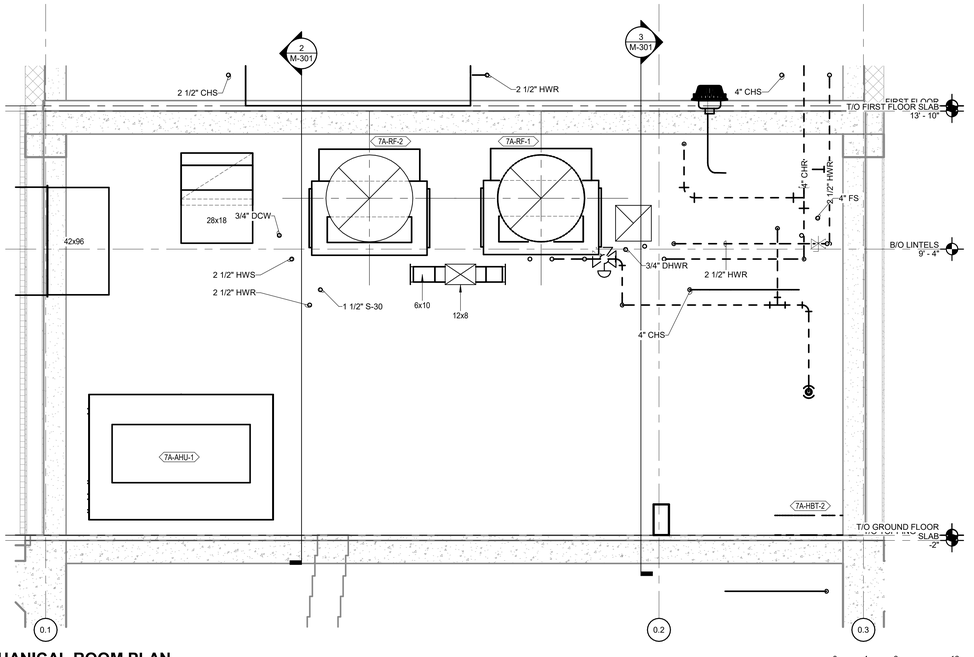
Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



3 MECHANICAL ROOM PLAN

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

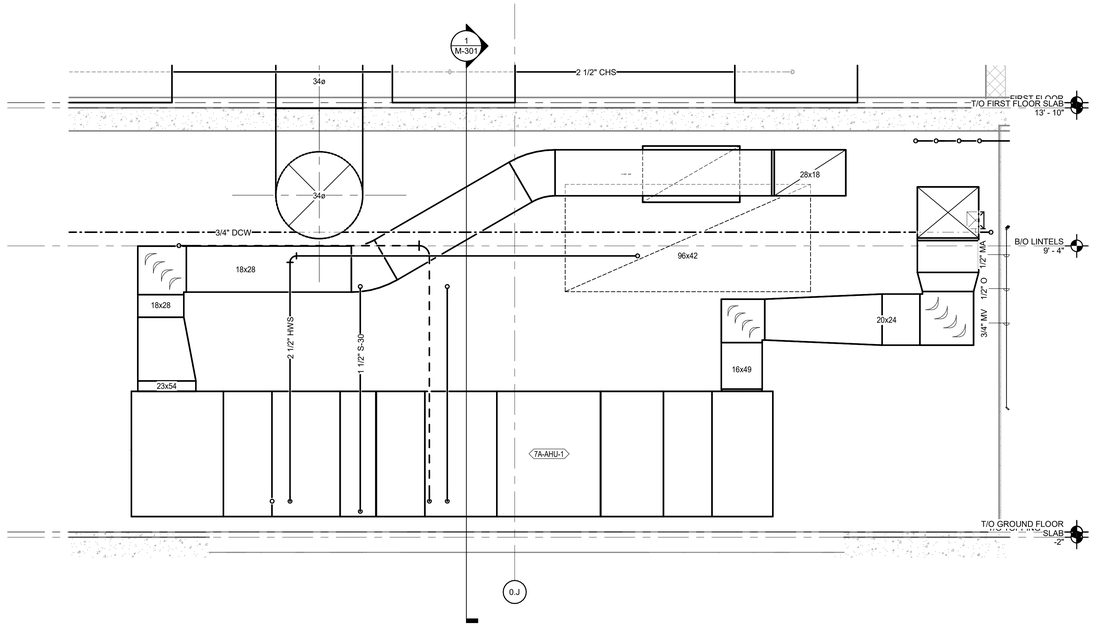
0 4 8 16



1 MECHANICAL ROOM PLAN

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

0 4 8 16



2 MECHANICAL ROOM PLAN

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

0 4 8 16

SHEET NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. UNLESS NOTED OTHERWISE, ALL DIFFUSERS AND GRILLE RUN-OUTS ARE THE SAME SIZE AS THE NECK/DUCT CONNECTION SIZE SPECIFIED IN THE AIR DEVICE SCHEDULE.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. SEE ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AS WELL AS DIFFUSER AND GRILLE PLACEMENT WITH THE CEILING.

E. COORDINATE ALL THERMOSTAT LOCATIONS WITH ALL OTHER WALL MOUNTED OBJECTS BEFORE INSTALLATION.

SCOPE OF WORK LEGEND

NOT IN SCOPE

IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE SHIRLEY — REGISTERED — No. 12100087 — STATE OF INDIANA — PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SECTIONS

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: JV

VA PROJECT NUMBER: 586-401

Building Number: # 7A

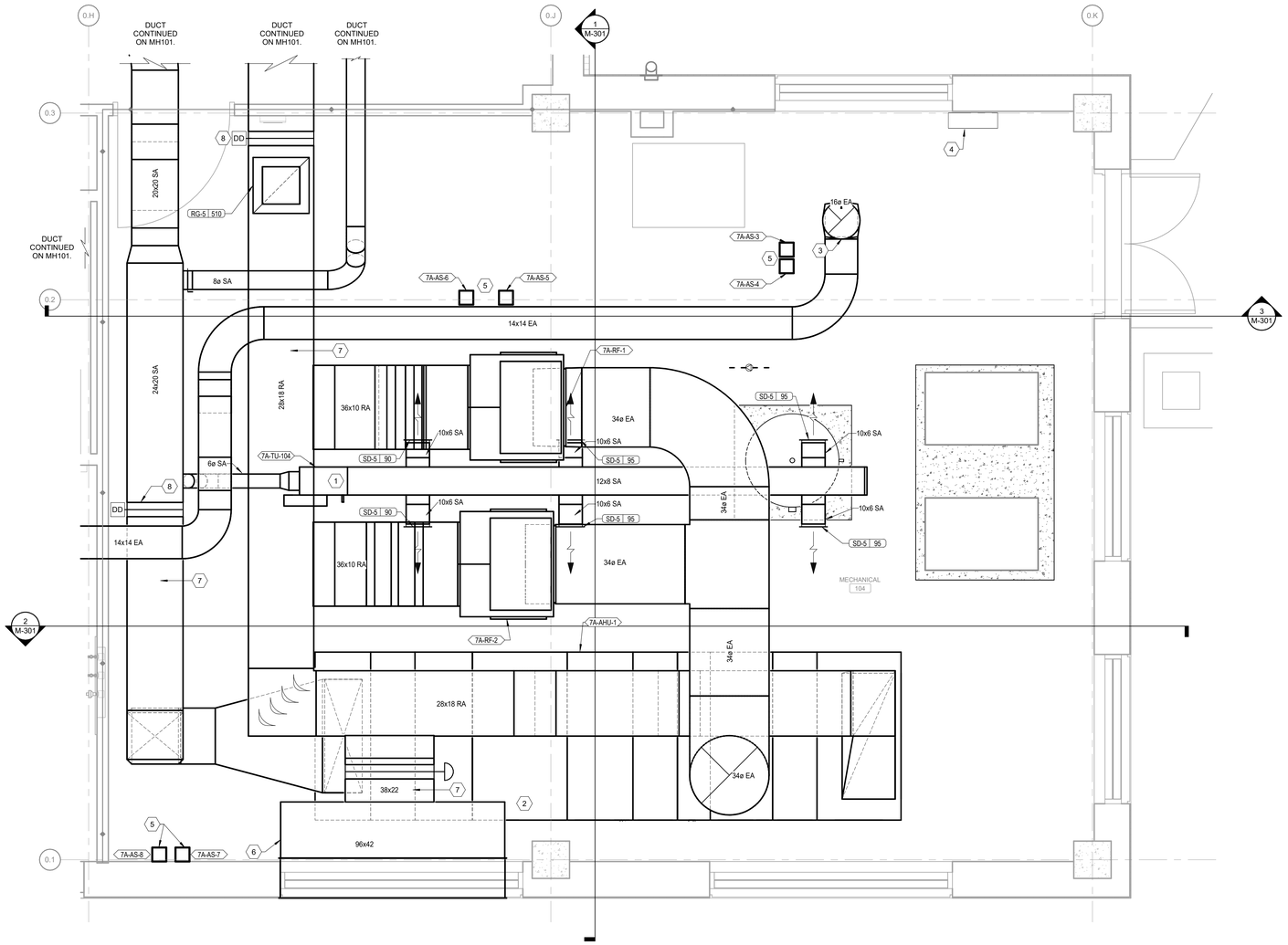
Drawing Number: M-301

Dwg 6 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:32:57 AM

VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 ENLARGED MECHANICAL ROOM HVAC PLAN

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

0 1 2 4 NORTH

SHEET NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. UNLESS NOTED OTHERWISE, ALL DIFFUSERS AND GRILLE RUN-OUTS ARE THE SAME SIZE AS THE NECK/DUCT CONNECTION SIZE SPECIFIED IN THE AIR DEVICE SCHEDULE.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. SEE ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AS WELL AS DIFFUSER AND GRILLE PLACEMENT WITH THE CEILING.

E. COORDINATE ALL THERMOSTAT LOCATIONS WITH ALL OTHER WALL MOUNTED OBJECTS BEFORE INSTALLATION.

(#) KEY NOTES:

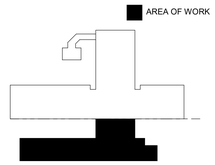
1 PROVIDE NEW SINGLE DUCT VAV UNITS AND NEW DIFFUSERS FOR COMPLETE INSTALLATION.
2 PROVIDE AND INSTALL NEW AIR HANDLING UNIT WITH EQUIPMENT RAILS ON PAD.
3 16" EXHAUST DUCT UP TO ROOF. SEE SHEET MH104 FOR CONTINUATION.
4 INSTALL NEW TEMPERATURE CONTROL PANEL.
5 PROVIDE VFD FOR EACH PUMP.
6 18" DEEP EXTERNALLY INSULATED PLENUM BEHIND LOUVER.
7 PROVIDE AIRFLOW MEASURING STATION IN DUCT AT INDICATED LOCATION.
8 PROVIDE DUCT SMOKE DETECTOR IN SUPPLY/RETURN DUCT MAIN AT INDICATED LOCATION.

SCOPE OF WORK LEGEND

NOT IN SCOPE
IN SCOPE

KEY PLAN
SCALE: NO SCALE

AREA OF WORK



FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

APOGEE Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.

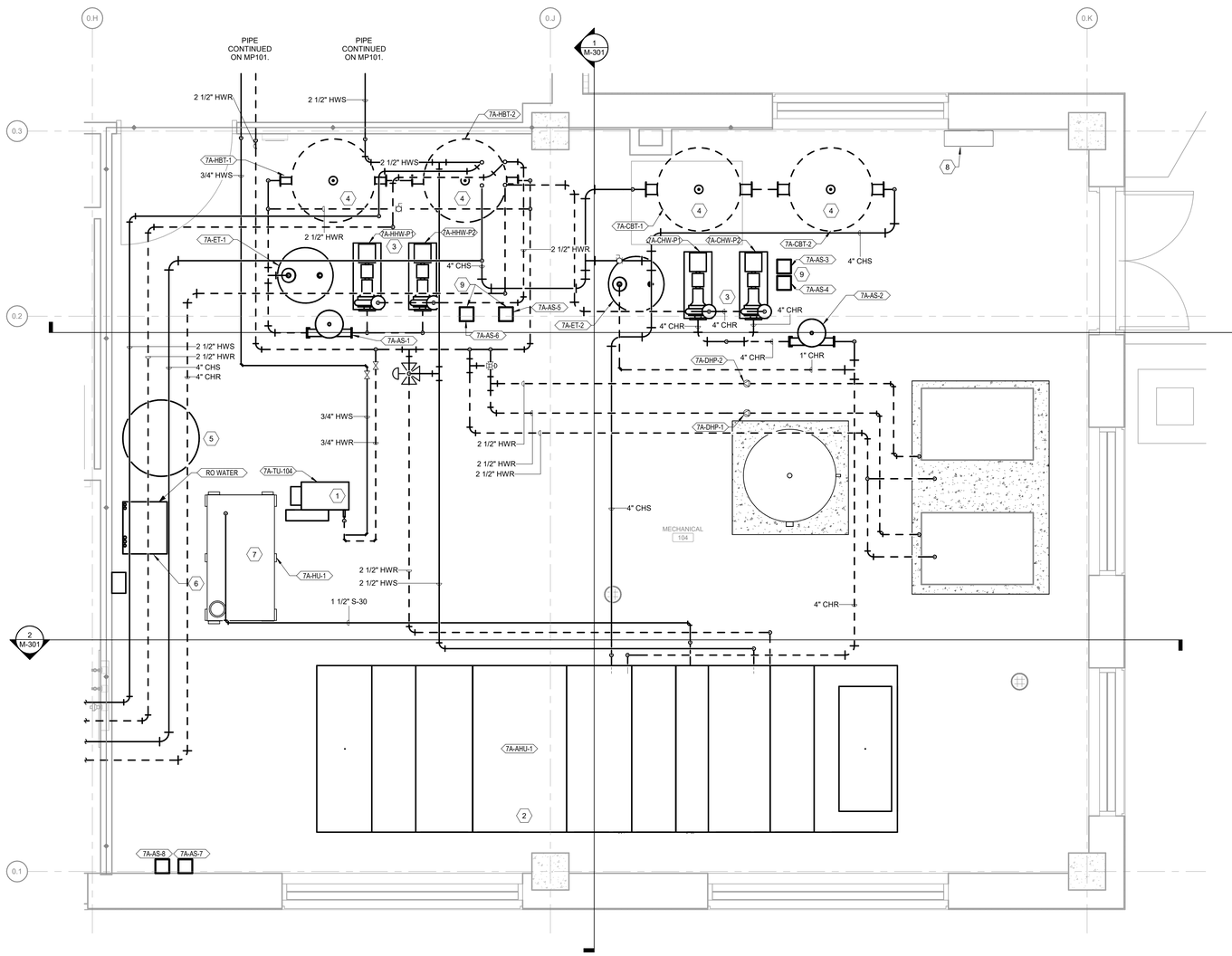
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management
VA | U.S. Department of Veterans Affairs

Drawing Title: ENLARGED MECHANICAL ROOM HVAC PLAN
Location: G.V. MONTGOMERY VAMC 1500 E. WOODROW WILSON AVENUE JACKSON, MS 39216
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
Approved
Date: JUNE 23, 2025 | Checked: WRS | Drawn: KC
VA PROJECT NUMBER 586-401
Building Number # 7A
Drawing Number M-401
Dwg 7 of 15

6/18/2025 9:32:58 AM C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 ENLARGED MECHANICAL ROOM PIPING PLAN

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

0 1 2 4 NORTH

SHEET NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. UNLESS NOTED OTHERWISE, ALL DIFFUSERS AND GRILLE RUN-OUTS ARE THE SAME SIZE AS THE NECK/DUCT CONNECTION SIZE SPECIFIED IN THE AIR DEVICE SCHEDULE.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. SEE ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AS WELL AS DIFFUSER AND GRILLE PLACEMENT WITH THE CEILING.

E. COORDINATE ALL THERMOSTAT LOCATIONS WITH ALL OTHER WALL MOUNTED OBJECTS BEFORE INSTALLATION.

KEY NOTES:

1 PROVIDE AND INSTALL NEW SINGLE DUCT VAV UNITS AND NEW DIFFUSERS FOR COMPLETE INSTALLATION.
2 PROVIDE AND INSTALL NEW AIR HANDLING UNIT WITH EQUIPMENT RAILS ON PAD.
3 PROVIDE AND INSTALL NEW HOT AND CHILLED WATER PUMPS. INSTALL 4" CONCRETE PADS FOR EACH PUMP. SEE DETAIL 8/M-501.
4 PROVIDE AND INSTALL NEW HOT AND CHILLED WATER BUFFER TANKS.
5 PROVIDE AND INSTALL NEW WATER SOFTENER.
6 PROVIDE AND INSTALL NEW RO WATER GENERATOR.
7 PROVIDE AND INSTALL NEW HUMIDIFIER.
8 PROVIDE AND INSTALL NEW TEMPERATURE CONTROL PANEL.
9 PROVIDE AND INSTALL NEW VARIABLE FREQUENCY DRIVE FOR EACH PUMP.

SCOPE OF WORK LEGEND

NOT IN SCOPE

IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

ROSCOE SHIPLEY No. 12100087 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED MECHANICAL ROOM PIPING PLAN

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP

VA PROJECT NUMBER 586-401

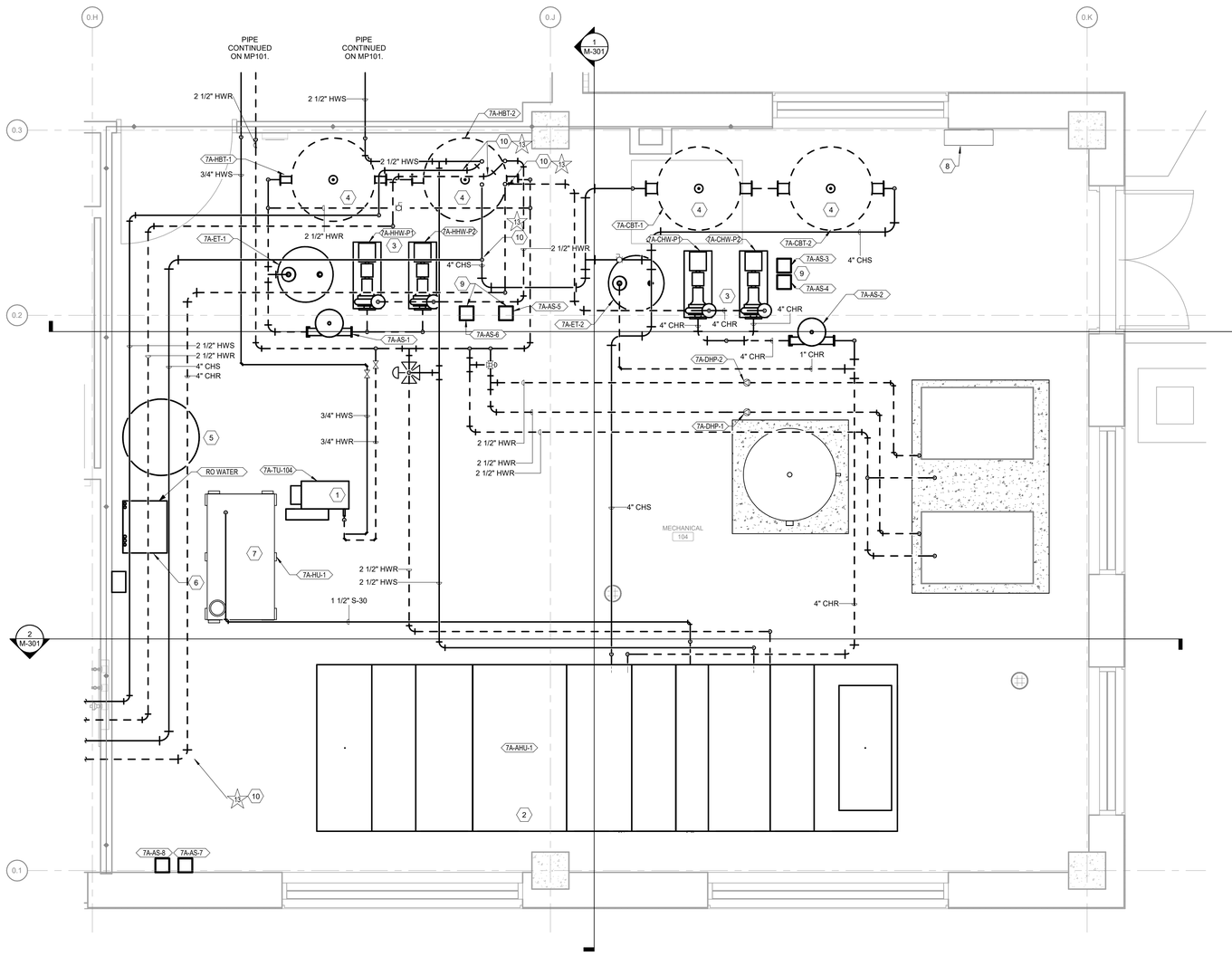
Building Number # 7A

Drawing Number M-402

Dwg 8 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:33:01 AM
© VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



ENLARGED MECHANICAL ROOM PIPING PLAN - DEDUCT ALTERNATE

1

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

0 1 2 4 NORTH

SHEET NOTES:

A. COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR, OTHER TRADES AND THE COR TO MINIMIZE DISRUPTION OF AREAS OUTSIDE OF THE PROJECT LIMITS OF WORK.

B. UNLESS NOTED OTHERWISE, ALL DIFFUSERS AND GRILLE RUN-OUTS ARE THE SAME SIZE AS THE NECK/DUCT CONNECTION SIZE SPECIFIED IN THE AIR DEVICE SCHEDULE.

C. ALL DIFFUSER AND GRILLE TAKEOFFS SHALL INCLUDE A BALANCING DAMPER.

D. SEE ARCHITECTURAL CEILING PLAN FOR CEILING TYPES AS WELL AS DIFFUSER AND GRILLE PLACEMENT WITH THE CEILING.

E. COORDINATE ALL THERMOSTAT LOCATIONS WITH ALL OTHER WALL MOUNTED OBJECTS BEFORE INSTALLATION.

KEY NOTES:

1 PROVIDE AND INSTALL NEW SINGLE DUCT VAV UNITS AND NEW DIFFUSERS FOR COMPLETE INSTALLATION.
2 PROVIDE AND INSTALL NEW AIR HANDLING UNIT WITH EQUIPMENT RAILS ON PAD.
3 PROVIDE AND INSTALL NEW HOT AND CHILLED WATER PUMPS. INSTALL 4" CONCRETE PADS FOR EACH PUMP. SEE DETAIL 8/M-501.
4 PROVIDE AND INSTALL NEW HOT AND CHILLED WATER BUFFER TANKS.
5 PROVIDE AND INSTALL NEW WATER SOFTENER.
6 PROVIDE AND INSTALL NEW RO WATER GENERATOR.
7 PROVIDE AND INSTALL NEW HUMIDIFIER.
8 PROVIDE AND INSTALL NEW TEMPERATURE CONTROL PANEL.
9 PROVIDE AND INSTALL NEW VARIABLE FREQUENCY DRIVE FOR EACH PUMP.
10 PROVIDE PIPE FOR EXTERIOR CONNECTION FOR DEDUCT 13 ONLY.

SCOPE OF WORK LEGEND

NOT IN SCOPE

IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

JOHN ROSCOE SHIPLEY No. 12100087 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ENLARGED MECHANICAL ROOM PIPING PLAN - DEDUCT ALTERNATE

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: WRS

VA PROJECT NUMBER: 586-401

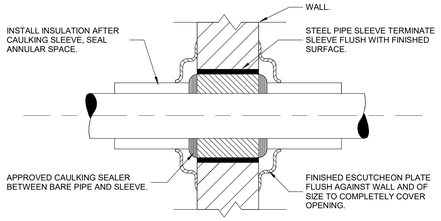
Building Number: # 7A

Drawing Number: M-402.1

Dwg 9 of 15

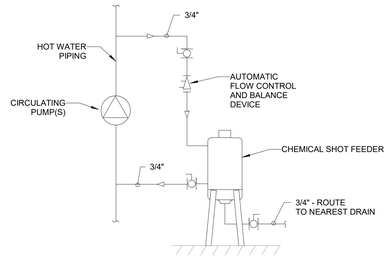
C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:33:04 AM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



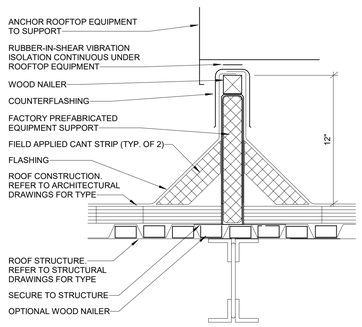
10 PIPE THRU WALL DETAIL

Scale: No Scale



11 CHEMICAL POT FEEDER DETAIL

Scale: No Scale

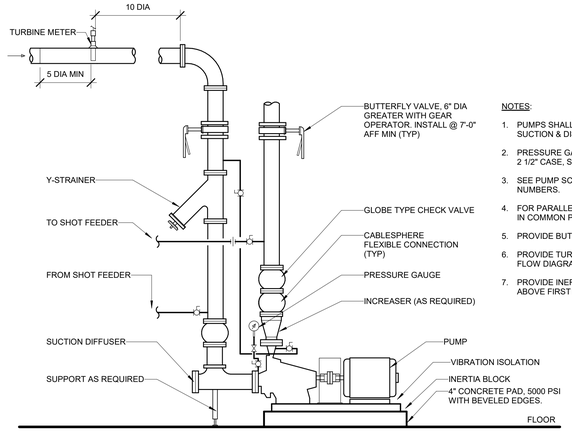


NOTES:

1. EQUIPMENT SUPPORTS SHALL BE PROVIDED WITH PROPERLY DESIGNED FABRICATED LEVELING DEVICES SO EQUIPMENT IS LEVEL AND THE ROOF CURB IS INSTALLED TO MATCH ROOF SLOPE.
2. PROVIDE PERIMETER ANGLE SUPPORT AT ALL SIDES BETWEEN STRUCTURAL STEEL SIZE OF ANGLE BASED ON LOAD OF EQUIPMENT. MINIMUM SIZE SHALL BE 3" x 3" x 1/4".
3. ROOF CURBS SHALL NOT BE SUPPORTED FROM THE ROOF INSULATION.
4. COORDINATE LOCATION OF ROOF CURB AND ROOF OPENING WITH STRUCTURE.
5. ROOFING INSULATION SHALL BE CONTINUOUS UNDER THE ROOFTOP EQUIPMENT.

12 ROOF EQUIPMENT SUPPORT DETAIL

Scale: No Scale



NOTES:

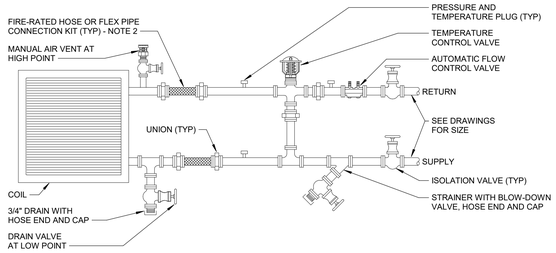
1. PUMPS SHALL BE SUPPLIED WITH UNION ON SUCTION & DISCHARGE IF NOT FLANGED.
2. PRESSURE GAUGE SHALL BE LIKE TRERICE 700 LFB, 2 1/2" CASE, SILICONE FILL WITH IMPULSE DAMPENER.
3. SEE PUMP SCHEDULE FOR PUMP TYPE AND MODEL NUMBERS.
4. FOR PARALLEL PUMPING, INSTALL TURBINE METER IN COMMON PIPE.
5. PROVIDE BUTTERFLY VALVES WITH MEMORY STOP.
6. PROVIDE TURBINE METER ONLY IF INDICATED ON FLOW DIAGRAM.
7. PROVIDE INERTIA BASES ON ALL PUMPS LOCATED ABOVE FIRST FLOOR.

8 CLOSED LOOP PUMP DETAIL BASE MOUNTED END SUCTION

Scale: No Scale

TWO WAY COIL PIPING DETAIL

THREE WAY COIL PIPING DETAIL

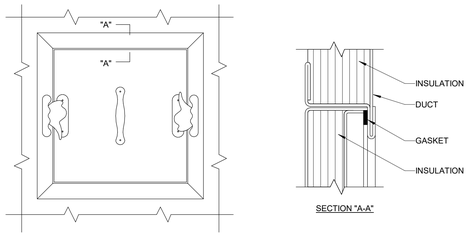


NOTES:

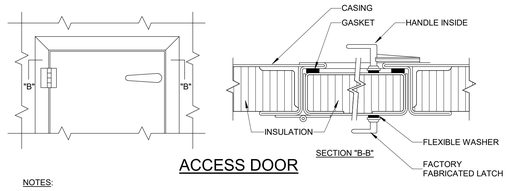
1. PIPE COILS TO ALLOW COIL PULL BY REMOVING UNIONS ADJACENT TO COIL.
2. FIRE-RATED HOSE OR FLEX PIPE CONNECTIONS SHALL APPLY ONLY TO EQUIPMENT WITH EXTERNAL VIBRATION ISOLATION DEVICES.
3. THIS DETAIL APPLIES TO ALL EQUIPMENT COIL CONNECTIONS THAT ARE DESIGNATED FOR TWO-WAY AND THREE-WAY CONTROL.
4. REFER TO SPECIFICATIONS FOR OPTIONS INVOLVING ACCESSORY COMBINATIONS.
5. INSTALL GROMMETS AT AIR HANDLING UNIT PIPE PENETRATIONS.

9 COIL PIPING DETAIL

Scale: No Scale



ACCESS PANEL



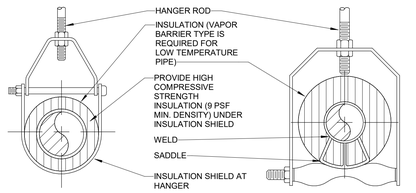
ACCESS DOOR

NOTES:

1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
3. SEE SMACNA 2005, FIGURE 9-16

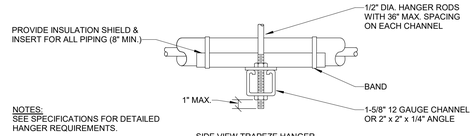
5 ACCESS PANEL AND DOOR DETAIL

Scale: No Scale



ADJUSTABLE CLEVIS HANGER TYPE 1 - SEE SPECIFICATIONS

ADJUSTABLE CLEVIS HANGER TYPE 43 - SEE SPECIFICATIONS



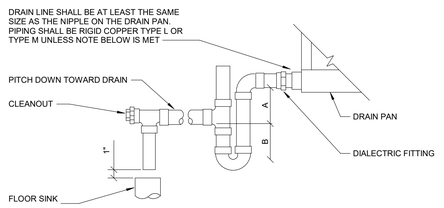
NOTES:
SEE SPECIFICATIONS FOR DETAILED HANGER REQUIREMENTS.

SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING												
NOM. SIZE (IN.)	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
PIPE (FT.)	7	7	7	9	10	11	12	14	16	17	19	22	23
TUBING (FT.)	5 FT	6	7	8	8	9	10	12	13	14	16	-	-
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE													

6 PIPE HANGER DETAIL

Scale: No Scale



NOTES:

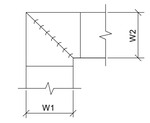
1. DIALECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

7 AIR HANDLING UNIT DRAIN TRAP DETAIL

Scale: No Scale

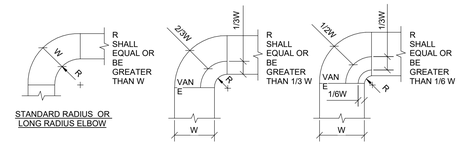


NOTES:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1-1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W EQUAL W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

1 DUCTWORK SQUARE VANE ELBOWS

Scale: No Scale

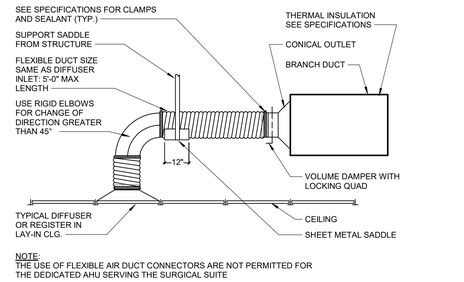


NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED , SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

2 DUCTWORK RADIUS ELBOW

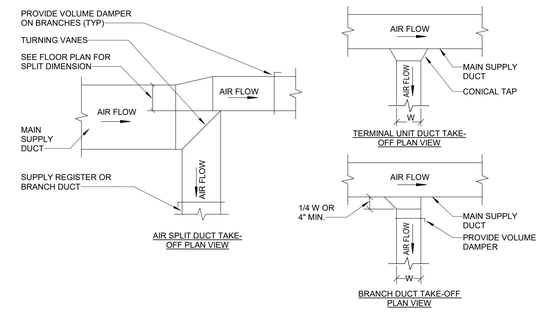
Scale: No Scale



NOTE:
THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE

3 FLEX AIR DUCT CONNECTOR DETAIL

Scale: No Scale



4 DUCT BRANCH TAKE-OFFS

Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIRLEY No. 12100087 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

© COPYRIGHT Apogee Consulting Group, P.A.

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

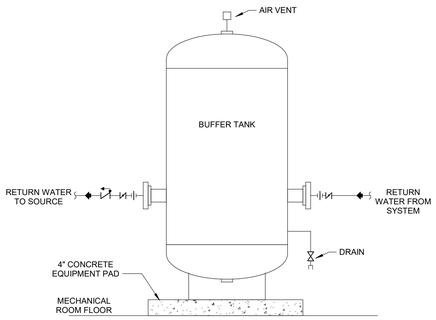
Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP

Drawing Number: M-501

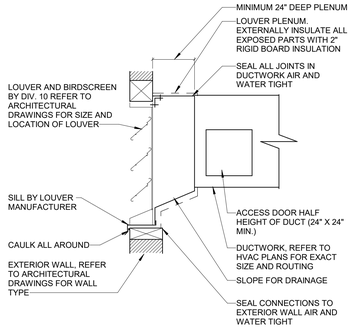
Dwg 10 of 15

C:\Users\wshirley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshirley.rvt
6/19/2025 9:33:04 AM

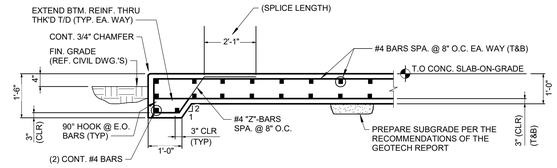
Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



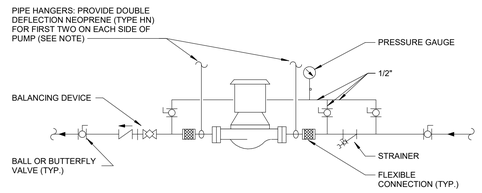
7 BUFFER TANK DETAIL
Scale: No Scale



4 LOUVER CONNECTION DETAIL
Scale: No Scale



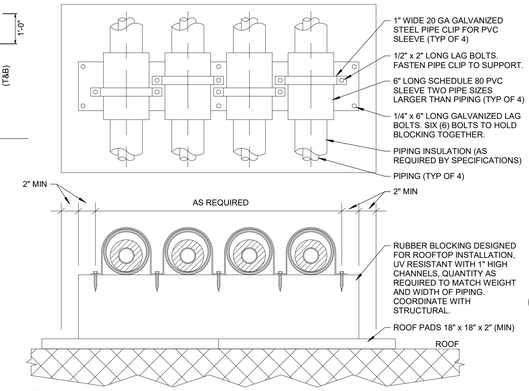
8 DETAIL SECTION - TYPICAL EQUIPMENT PAD
Scale: No Scale



NOTE:

SUPPORT PUMP FROM PIPING ONLY. DO NOT SUPPORT PUMP FROM MOTOR.

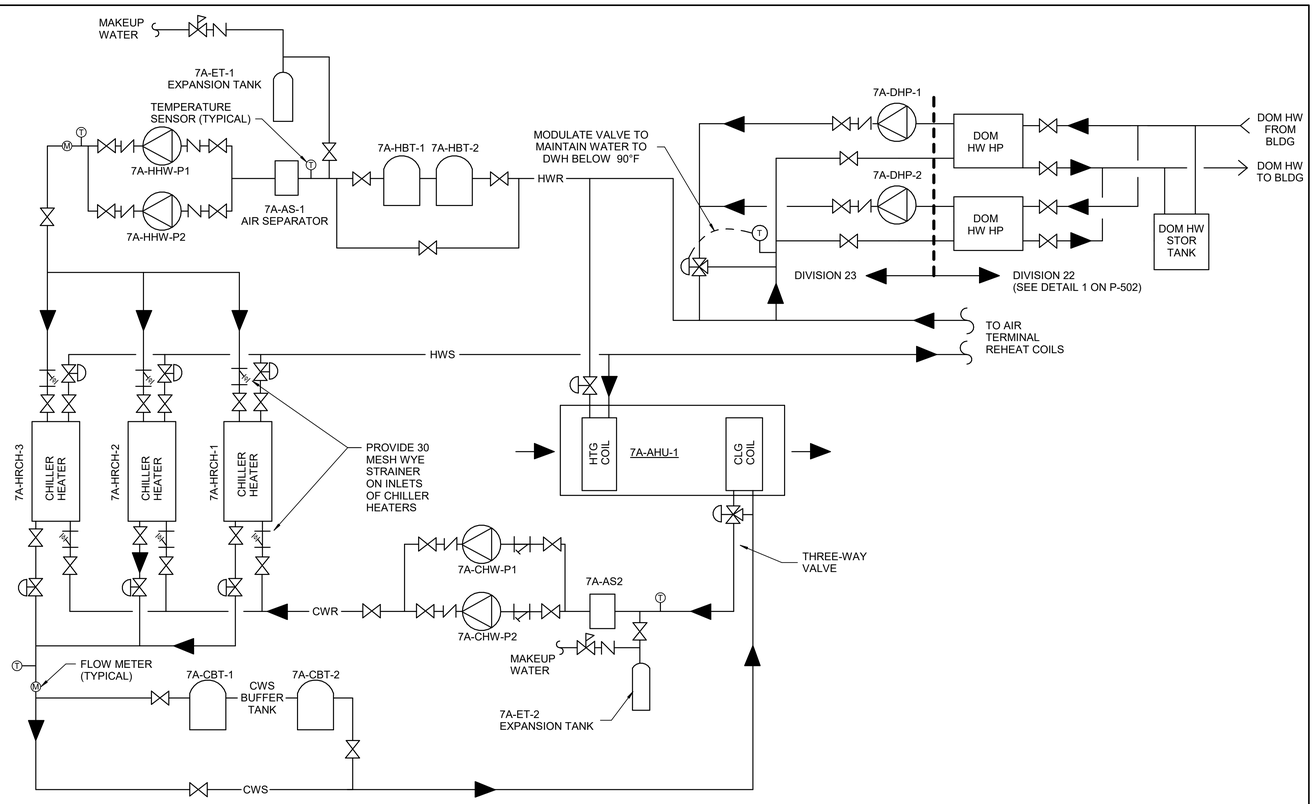
9 INLINE PUMP CONNECTIONS DETAIL
Scale: No Scale



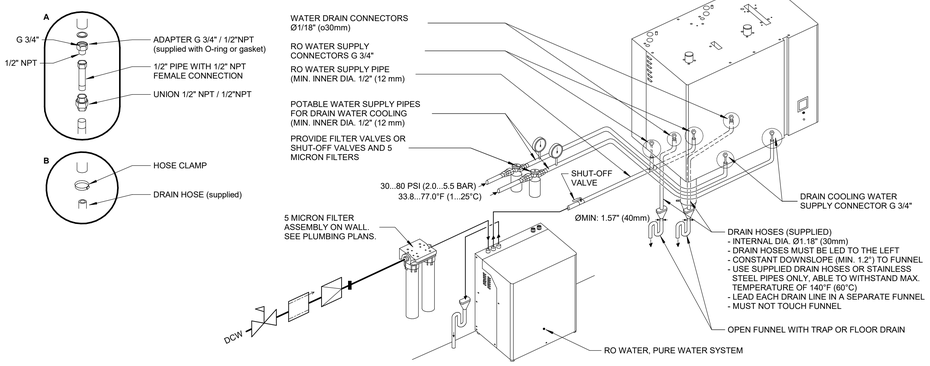
NOTE:

1. SUPPORT REQUIRED AT ALL CHANGES IN DIRECTION AND AS SHOWN ON DRAWINGS.
2. INCREASE HEIGHT AS REQUIRED FOR ROUTING ABOVE ROOF MOUNTED ACCESSORIES SUCH AS EXPANSION JOINTS.

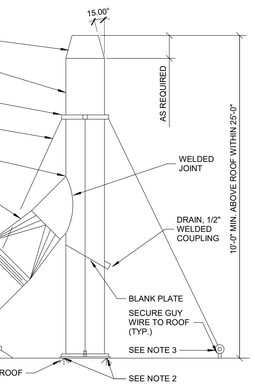
5 RUBBER BLOCK ROOF PIPE SUPPORT DETAIL
Scale: No Scale



1 HVAC Piping Diagram
Scale: No Scale



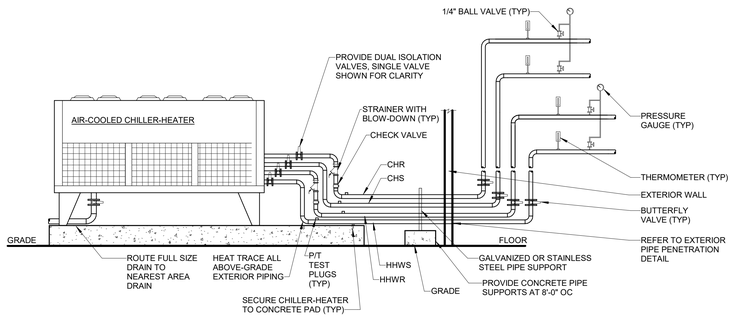
2 HUMIDIFIER DETAIL WITH RO WATER
Scale: No Scale



NOTES:

1. EQUIPMENT ROOF CURB TO MEET ROOF WARRANTY REQUIREMENTS.
2. SECURE TO ROOF REAMING STRUCTURE. SEAL ALL ROOF PENETRATIONS AS REQUIRED TO PRESERVE WARRANTY.
3. 3/4" EYEBOLT, SECURE TO ROOF FRAMING STRUCTURE. SEAL ALL ROOF PENETRATIONS AS REQUIRED TO PRESERVE WARRANTY.

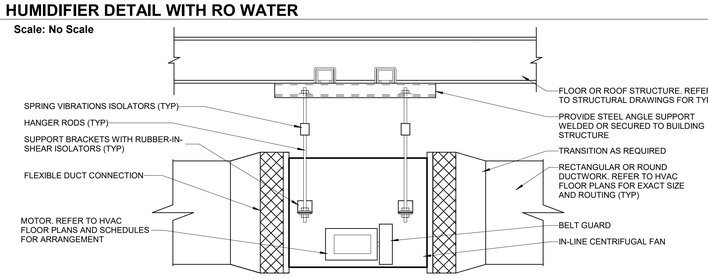
10 EXHAUST STACK DETAIL
Scale: No Scale



NOTES:

1. VERIFY ACTUAL WATER AND DRAIN CONNECTION LOCATIONS WITH CHILLER-HEATER MANUFACTURER.
2. PROVIDE HEAT TRACE FOR ALL ABOVE GRADE EXTERIOR HEATING AND CHILLED WATER PIPING. HEAT TRACE SHALL BE CHROMALOX (OR EQUAL) SELF REGULATING TYPE, 8 WATTS/LINEAR FOOT, 120V/1Ph.
3. ONLY A SINGLE CHILLER-HEATER IS INDICATED IN THIS DETAIL. PIPING SHOWN IS FOR REFERENCE ONLY AND IS NOT INTENDED TO INDICATE THE ROUTE OF PIPING.

6 AIR-COOLED CHILLER-HEATER INSTALLATION DETAIL
Scale: No Scale



3 IN-LINE CENTRIFUGAL FAN INSTALLATION DETAIL
Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

LOUIS ROSCOE SHIRLEY — No. 12100087 — STATE OF INDIANA — PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP

Drawing Number: M-502

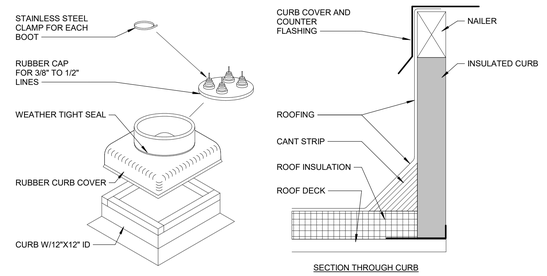
Dwg 11 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt

6/19/2025 9:33:06 AM

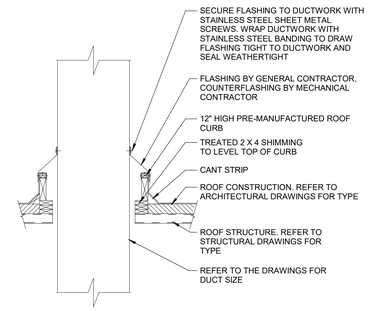
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



1 PIPE CURB ENTRY DETAIL

Scale: No Scale



2 DUCTWORK ROOF PENETRATION DETAIL

Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY, JR. No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved

Date	Checked	Drawn
JUNE 23, 2025	WRS	WRS

VA PROJECT NUMBER 586-401

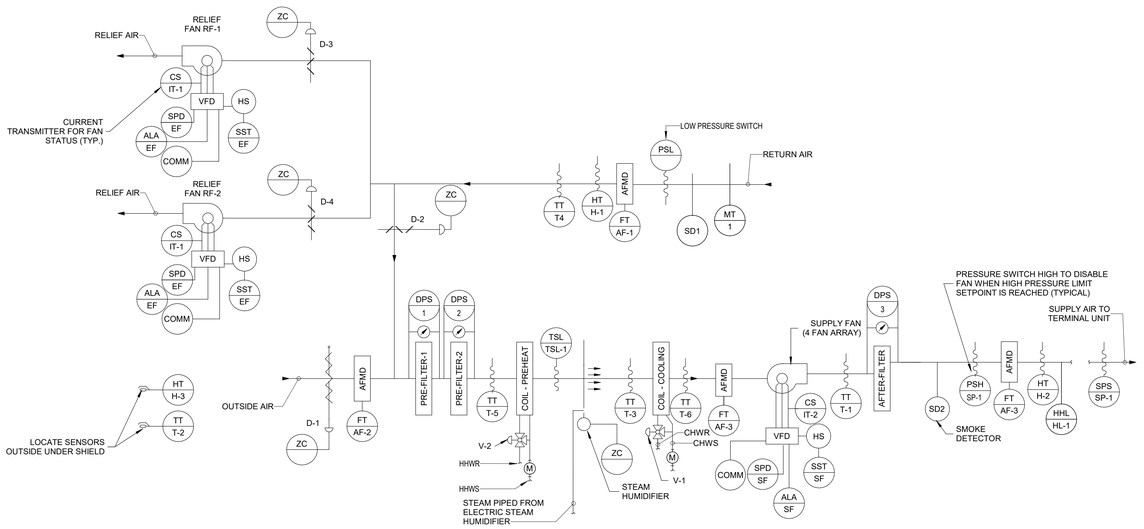
Building Number # 7A

Drawing Number M-503

Dwg 12 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:33:06 AM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F



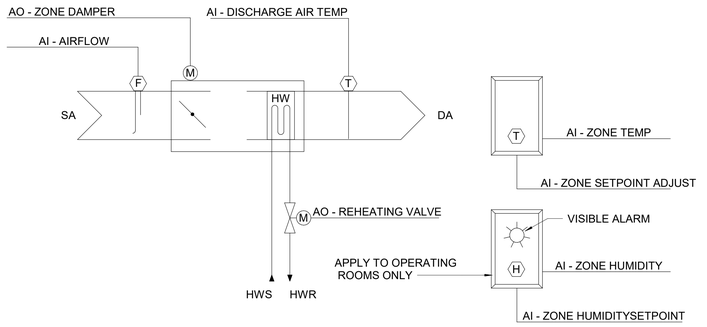
3 7A-AHU-1 SCHEMATIC

Scale: No Scale

			POINT LEGEND						SYSTEM OUTPUTS		SYSTEM INPUTS												SYSTEM SOFTWARE/CONTROL																								PAGE:
									BINARY	ANA-LOG	BINARY								ANALOG				ALARM PROCESSING					APPLICATION/FUNCTION																				
SYSTEM: CUSTOM VAV AIR HANDLER 7A-AHU-1			PRIORITY/DD - ALTER #	ELECTRIC DEVICE	EP DEVICE	GRAPHIC CODE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE
SYSTEM COMPONENT:	POINT ID	ABBREVIATION					SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	REMARKS
RETURN AIR TEMPERATURE	AI-1	T-4							●		●																																					●	
RETURN AIR HUMIDITY	AI-2	H-1							●									●																													●	
MIXED AIR TEMPERATURE	AI-3	T-5							●		●																																					●	
PRE-HEAT TEMPERATURE	AI-4	T-3							●		●																																					●	
COOLING COIL TEMPERATURE	AI-5	T-6							●		●									●																													●	
DISCHARGE AIR TEMPERATURE	AI-6	T-1							●		●																		●																			●	
DISCHARGE STATIC PRESSURE	AI-7	SP-1							●							●				●											●																	●	
DISCHARGE AIR HUMIDITY	AI-8	H-2							●								●																															●	
OUTSIDE AIR TEMPERATURE	AI-9	T-2									●																																					●	
OUTSIDE AIR HUMIDITY	AI-10	H-3									●																																					●	
PRE-FILTER 1	BI-1	DPS-1						●													●																											●	
RELIEF FAN RF-1 STATUS	BI-2	CS-IT 1					●																																									●	
RELIEF FAN RF-2 STATUS	BI-3	CS-IT 2					●																																									●	
SUPPLY FAN STATUS	BI-4	CS-IT 3					●																																									●	
EF-1 STATUS	BI-5	CS-IT 4						●																																								●	
MIXED AIR LOW LIMIT	BI-6	TSL-1								●												●																											●	
STATIC PRESSURE HIGH LIMIT	BI-7	SP-1										●											●																										●	
HUMIDITY HIGH LIMIT	BI-8	HL-1											●										●																										●	
SUPPLY FAN VSMC ALARM	BI-9	ALA-SF												●																																			●	
RELIEF FAN RF-1 VSMC ALARM	BI-10	ALA-RF 1												●																																			●	
RELIEF FAN RF-2 VSMC ALARM	BI-11	ALA-RF 2												●																																			●	
DUCT SMOKE DETECTOR	BI-12	SD																			●																											●	
EXHAUST DAMPER POSITION	BI-13	D-5																			●																											●	
PRE-FILTER 2	BI-14	DPS-2													●																																	●	
AFTER FILTER	BI-15	DPS-3													●																																	●	
SMOKE DETECTOR 1	BI-16	SD-1														●																																●	
SMOKE DETECTOR 2	BI-17	SD-2														●																																●	
RELIEF FAN RF-1 VSMC	AO-1	SPD-RF 1			●																																										●	●	FULL COMMUNICATION
RELIEF FAN RF-2 VSMC	AO-2	SPD-RF 2			●																																										●	●	FULL COMMUNICATION
SUPPLY FAN VSMC	AO-3	SPD-SF			●																																										●	●	FULL COMMUNICATION
RETURN AIR DAMPER	AO-4	D-2				●																																										●	
RELIEF AIR DAMPER	AO-5	D-3				●																																										●	
RELIEF AIR DAMPER	AO-6	D-4				●																																										●	
PREHEAT VALVE	AO-7	V-2					●																																										●	
COOLING VALVE	AO-8	V-1					●																																										●	
STEAM HUMIDIFIER	AO-9	HU-1					●																																										●	
OUTSIDE AIR DAMPER	AO-10	D-1					●																																										●	
RELIEF FAN RF-1 START/STOP	BO-1	SST-RF 1		●																																													●	
RELIEF FAN RF-2 START/STOP	BO-2	SST-RF 2		●																																													●	
SUPPLY FAN START/STOP	BO-3	SST-SF		●																																												●	
EF-1 START/STOP	BO-4	SST EF 1				●																																										●	
EXHAUST DAMPER OPEN/CLOSE	BO-5	D-5				●																																										●	
AIRFLOW MONITORING - RA	FT-1	AF-1 / PSL						●													●																											●	
AIRFLOW MONITORING - OA	FT-2	AF-2																			●																											●	
AIRFLOW MONITORING - SA	FT-3	AF-3																			●																											●	

1 7A-AHU-1 POINTS LIST

Scale: No Scale



5 VAV TERMINAL SCHEMATIC

Scale: No Scale

	HARDWARE POINTS				SOFTWARE POINTS						
POINT NAME:	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	SHOW ON GRAPHIC
ZONE TEMPERATURE	X								X		X
ZONE TEMPERATURE SETPOINT	X										X
AIRFLOW	X								X		X
DISCHARGE AIR TEMPERATURE	X								X		X
ZONE DAMPER		X									X
REHEATING VALVE		X							X		X
MAXIMUM OCCUPIED AIRFLOW SETPOINT					X				X		X
HEATING MODE						X			X		
HEATING SETPOINT									X		X
COOLING SETPOINT									X		X
HIGH ZONE TEMPERATURE										X	
LOW ZONE TEMPERATURE										X	
HIGH DISCHARGE TEMPERATURE										X	
LOW DISCHARGE TEMPERATURE										X	
HIGH ZONE HUMIDITY										X	
MINIMUM OCCUPIED AIR FLOW SETPOINT					X				X		X
MINIMUM UNOCCUPIED AIRFLOW SETPOINT					X				X		X
ZONE HUMIDITY	X								X		X
ZONE HUMIDITY SETPOINT	X								X		X
	6	2			3	1			12	5	13
TOTAL HARDWARE (8)					TOTAL SOFTWARE (21)						

6 VAV TERMINAL UNIT CONTROLS

Scale: No Scale

VAV TERMINAL UNIT

VARIABLE AIR VOLUME - TERMINAL UNIT

RUN CONDITIONS - CONTINUOUS:
THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN:
- A 75°F (ADJ.) COOLING SETPOINT.
- A 70°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

PRESSURE INDEPENDENT VARIABLE VOLUME TERMINAL UNIT - FLOW CONTROL:
THE UNIT SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:

OCCUPIED:
- WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE AIRFLOW (ADJ.).
- WHEN ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL MODULATE THE HEATING VALVE OPEN TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

UNOCCUPIED:
- WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO ITS MINIMUM UNOCCUPIED AIRFLOW (ADJ.).
- WHEN THE ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
- WHEN ZONE TEMPERATURE IS LESS THAN ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL MODULATE THE HEATING VALVE OPEN TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE AUXILIARY HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

REHEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING ZONE TEMPERATURE TO MAINTAIN ITS HEATING SETPOINT.

REHEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND LIMIT HOT WATER VALVE POSITION IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 15°F (ADJ.) ABOVE THE ZONE TEMPERATURE.

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 100°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH HUMIDITY: IF THE SPACE RELATIVE HUMIDITY RISES ABOVE 60% A VISIBLE ALARM SHALL BE INITIATED IN THE AFFECTED OR AND AT THE DDC MONITORING STATION.

4 VAV TERMINAL SEQUENCE OF OPERATION

Scale: No Scale

1. GENERAL FAN/TEMPERATURE CONTROL

1.1 **COOLING-OCCUPIED/OVERRIDE:** AHU'S WILL BE INTERLOCKED WITH ASSOCIATED AREA EXHAUST FANS, SO EACH EXHAUST FAN WILL OPERATE WHENEVER ITS ASSOCIATED AHU IS ENERGIZED. AHU SUPPLY FAN SPEED SHALL BE DETERMINED BY DISCHARGE AIR PRESSURE AND POLLING OF VAV BOX DAMPER POSITIONS. DISCHARGE AIR PRESSURE SHALL INCLUDE A "CRITICAL ZONE RESET STRATEGY" WHICH REDUCES DISCHARGE AIR PRESSURE UNTIL AT LEAST ONE ZONE VAV BOX DAMPER IS 90% OPEN. THE INITIAL AIR PRESSURE SETPOINT SHALL BE 5" WG (ADJUSTABLE). THE AHU RETURN AIR FAN SHALL BE INTERLOCKED WITH THE SUPPLY AIR FAN. THE RETURN AIR FAN SPEED OFFSET SHALL BE DETERMINED DURING THE INITIAL TAB WORK. AS SPACE PRESSURIZATION RISES ABOVE 0.01" WG, THE RELIEF AIR FAN SHALL START AND RESPECITVE DAMPER SHALL OPEN TO MAINTAIN SPACE PRESSURIZATION AT 0.01" WG (ADJUSTABLE). CHILLED WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE OF 55°F (ADJ). OUTDOOR AIR DAMPER AND RETURN AIR DAMPER SHALL MODULATE TO MAINTAIN A MINIMUM OUTDOOR AIR QUANTITY DURING OCCUPIED CYCLE AS SHOWN ON THE AIR HANDLING UNIT SCHEDULE AS MEASURED BY AN AIRFLOW MEASURING STATION.

1.2 **COOLING-UNOCCUPIED:** SHALL OPERATE AS IN OCCUPIED MODE.

1.3 **HEATING-OCCUPIED:** AHU SUPPLY AIR FAN SHALL BE ENERGIZED AND RUN CONTINUOUSLY. OA FLOW WILL BE MAINTAINED AS DESCRIBED IN COOLING-OCCUPIED MODE ABOVE. WHEN DISCHARGE AIR TEMPERATURE DROPS BELOW 52°F, DISCHARGE AIR TEMPERATURE CONTROLLER THRU DDC CONTROL SHALL MODULATE THE HEATING VALVE TO MAINTAIN 55°F LEAVING AIR TEMPERATURE. THE CHILLED WATER VALVE SHALL BE FULLY CLOSED TO THE COIL WHEN IN HEATING MODE.

1.4 **HEATING-UNOCCUPIED:** UNIT SHALL BE DE-ENERGIZED UNLESS THE AVERAGE OF THE ZONE TEMPERATURES FALLS BELOW THE SETBACK TEMPERATURE SETPOINT. THE OA AND EA DAMPER SHALL BE CLOSED.

1.5 **TRANSITION FROM OCCUPIED TO UNOCCUPIED:** AUTOMATICALLY THRU DDC CONTROL AND PRESET TIME SCHEDULE. SYSTEM SHALL ALSO BE ABLE TO BE RETURNED TO OCCUPIED MODE FROM UNOCCUPIED MODE BY THE OPERATOR WORKSTATION. TRANSITION FROM COOLING TO HEATING SHALL OCCUR WHEN CHILLED WATER CONTROL VALVE IS CLOSED AND DISCHARGE AIR TEMPERATURE FALLS BELOW 52°F.

2 HUMIDIFICATION MODE:

2.1 THE SUPPLY AIR HIGH LIMIT HUMIDITY SENSOR SETPOINT SHALL BE CAPABLE OF BEING ADJUSTED FROM EITHER THE CENTRAL OR LOCAL ECC CONTROL PANEL.

2.2 THE RETURN AIR HUMIDITY SENSOR LOCATED IN THE RETURN AIR DUCT SHALL MODULATE THE HUMIDIFIER TO MAINTAIN THE SPACE HUMIDITY. THE HIGH LIMIT HUMIDITY SENSOR SHALL MODULATE THE HUMIDIFIER TO MAINTAIN 30% ADJUSTABLE RELATIVE HUMIDITY IN THE SPACES.

2.3 THE OUTDOOR AIR TEMPERATURE SENSOR SHALL CLOSE OFF THE HUMIDIFIER STEAM SUPPLY VALVE WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE & OPEN THE HUMIDIFIER STEAM SUPPLY VALVE WHEN OUTSIDE AIR TEMPERATURE IS BELOW 60°F.

3. EPIDEMIC MODE:

3.1 EPIDEMIC MODE SHALL BE MANUALLY INITIATED AT THE ECC. AHU SHALL OPERATE WITH 100% OUTDOOR AIR DURING EPIDEMIC MODE AS FOLLOWS:

3.2 RETURN DAMPER SHALL MODULATE CLOSED WHILE THE OUTSIDE AIR DAMPER MODULATES TO FULL OPEN.

3.3 LEAD RELIEF FAN SHALL START AND MODULATE ITS SPEED TO MAINTAIN BUILDING PRESSURE TO OUTDOORS AT 0.01" W.G. PRESSURE MONITOR SHALL BE LOCATED IN SEATING 120. LAG RELIEF FAN SHALL START IF THE LEAD FAN FAILS TO START AFTER 5 MINUTES (ADJ.).

3.4 PREHEAT COIL AND COOLING COIL VALVES SHALL MODULATE IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE FOR OCCUPIED MODE (SEE ABOVE).

4. ECONOMIZER:

4.1 A COMPARATIVE ENTHALPY ECONOMIZER STRATEGY SHALL BE UTILIZED. THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE RETURN AIR DAMPER SHALL MODULATE CLOSED WHEN OA ENTHALPY IS LESS THAN RETURN AIR ENTHALPY IN COOLING MODE.

5. SAFETY CONTROL/PROTECTION:

5.1 SMOKE DETECTOR SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR. THROUGH DDC CONTROL IT SHALL DE-ENERGIZE THE ASSOCIATED AHU, ALL ASSOCIATED VAV SUPPLY AND EXHAUST FANS (INCLUDING INTERLOCKS), SIGNAL FIRE ALARM PANEL AND CLOSE THE OUTSIDE AIR DAMPER UPON THE DETECTION OF THE PRODUCTS OF COMBUSTION.

5.2 **FREEZE PROTECTION:** IF HEATING WATER COIL DISCHARGE AIR TEMPERATURE FALLS BELOW 40°F DURING HEATING MODE, THE FREEZESTAT SHALL CLOSE THE OUTSIDE AIR DAMPER, DE-ENERGIZE THE AHU SUPPLY AIR FAN AND FULLY OPEN THE PRIMARY STEAM AND CHILLED WATER VALVES TO COIL.

5.3 **PRESSURE PROTECTION:** A HIGH PRESSURE TRANSMITTER LOCATED AT THE SUPPLY FAN DISCHARGE SHALL DE-ENERGIZE THE SUPPLY AIR FAN IF ITS SETPOINT, 5" WG, IS REACHED.

5.4 **CONDENSATE HIGH LEVEL PROTECTION:** IF CONDENSATE HIGH LEVEL SWITCH IS ACTIVATED, UNIT SHALL BE DE-ACTIVATED AND AN ALARM INITIATED.

6. ALARMS:

6.1 ALARM FOR DIRTY FILTER WHEN PRESSURE DROP EXCEEDS 0.5" WG ABOVE INITIAL PRESSURE DROP. ALARM IF LEAVING AIR TEMPERATURE EXCEEDS 60°F IN COOLING MODE OR DROPS BELOW 50°F IN HEATING MODE. ALARM IF AHU SUPPLY OR EXHAUST AIR FAN FAILS TO START OR FAILS DURING OPERATION. ALARM IF UNIT DISCHARGE STATIC PRESSURE EXCEEDS 5" WG. ALARM IF CONDENSATE REACHES HIGH LEVEL. ALARM UPON SMOKE DETECTOR ACTIVATION.

7. GRAPHICS AND MONITORING:

7.1 BAS FRONT END SYSTEM SHALL INCLUDE GRAPHICS SHOWING ALL HVAC SYSTEMS, ALARMS AND OTHER POINTS SHOWN ON THE DRAWINGS AND INCLUDED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH VA REQUIREMENTS. VFDS SHALL REPORT OPERATIONAL AND ALARM CONDITIONS TO THE BAS.

8. DDC PANELS:

8.1 PROVIDE NETWORK AREA CONTROL PANELS IN ACCORDANCE WITH THE SPECS TO BE LOCATED IN THE EXISTING RESPECTIVE LOCATIONS TO SERVE AHUS, TERMINAL BOXES, AND OTHER EQUIPMENT.

2 7A-AHU-1 SEQUENCE OF OPERATIONS

Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL CONTROLS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP

Drawing Number: M-504

Dwg 13 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:33:06 AM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

SEQUENCE OF OPERATION: HEAT RECOVERY CHILLER HEATER (HRCH) SYSTEM

SYSTEM GENERAL DESCRIPTION:
THE HEAT RECOVERY CHILLER-HEATER PLANT CONTROL SYSTEM SHALL MONITOR AND CONTROL THE SYSTEM'S AIR TO WATER HEAT PUMP(S), PUMP(S), CONTROL VALVES, AND ANY OTHER EQUIPMENT AS SHOWN ON THE CHILLER-HEATER PLANT FLOW DIAGRAM, IN THE CHILLER-HEATER PLANT POINTS LIST AND AS DETAILED IN THE SEQUENCE OF OPERATION LISTED BELOW.
THE HEAT RECOVERY CHILLER-HEATER (HRCH) PLANT SYSTEM CONSISTS OF AIR TO WATER HEAT PUMPS WITH ITS PIPING CONFIGURATION ARRANGED AS A PRIMARY FOUR PIPE MODULAR SYSTEM SUPPLYING CHILLED WATER AND HOT WATER TO THE FACILITY.
THE MANIFOLDED HRCH ARE CONFIGURED AS LEAD / STANDBY CONTROL.
THE MANIFOLDED WATER DISTRIBUTION PUMPS ARE CONFIGURED AS LEAD / STANDBY CONTROL.

HEAT RECOVERY CHILLER-HEATER COMMANDS:
WHEN THE CHILLER-HEATER SYSTEM IS ENABLED, THE BAS CONTROLLER SHALL ENABLE THE CORRESPONDING LEAD HRCH.
THE BAS CONTROLLER SHALL DETECT HRCH RUN STATUS BY A CURRENT SWITCH.
SYSTEM HRCHS WILL OPERATE IN A LEAD/STANDBY SEQUENCE. STANDBY HRCH WILL OPERATE AS BACKUP ONLY. EACH HRCH LEAD/STANDBY SEQUENCE SHALL BE ROTATED ON A WEEKLY SCHEDULE, CHANGING HRCH AT 2 AM SUNDAY. FROM THE BAS OPERATOR INTERFACE, AN OPERATOR SHALL BE ABLE TO MANUALLY CHANGE THE LEAD/STANDBY SEQUENCE OR REQUEST ANY HRCH TO BE UNAVAILABLE WHICH WOULD REMOVE IT FROM THE ROTATION SEQUENCE.

HEAT RECOVERY CHILLER-HEATER FAILURE:
IF THE HRCH START/STOP RELAY IS ENABLED AND THE CURRENT SWITCH STATUS IS OFF FOR MORE THAN 30 SECONDS (ADJ.), THE BAS CONTROLLER SHALL ANNUNCIATE A FAILURE ALARM TO THE BAS AND START THE STANDBY HRCH AND CHANGE IT TO BE THE LEAD HRCH.

HEAT RECOVERY CHILLER-HEATER PRIMARY WATER PUMP COMMANDS:
WHEN THE CHILLER-HEATER SYSTEM IS ENABLED, THE BAS CONTROLLER SHALL START THE CORRESPONDING LEAD WATER PUMP THROUGH A CONTACT CLOSURE OF THE PUMPS VFD RUN-ENABLE CONTACTS.
THE BAS CONTROLLER SHALL DETECT WATER PUMP RUN STATUS BY A VFD CURRENT SWITCH.
SYSTEM PUMPS WILL OPERATE IN A LEAD/STANDBY SEQUENCE. STANDBY PUMP WILL OPERATE AS BACKUP PUMP ONLY.
EACH SYSTEM'S WATER PUMPS LEAD/STANDBY SEQUENCE SHALL BE ROTATED ON A WEEKLY SCHEDULE, CHANGING PUMPS AT 2 AM SUNDAY. FROM THE BAS OPERATOR INTERFACE, AN OPERATOR SHALL BE ABLE TO MANUALLY CHANGE THE LEAD/STANDBY SEQUENCE OR REQUEST ANY PUMP TO BE UNAVAILABLE WHICH WOULD REMOVE IT FROM THE ROTATION SEQUENCE.

HEAT RECOVERY CHILLER-HEATER WATER PUMP FAILURE:
IF THE PUMP START/STOP RELAY IS ENABLED AND THE CURRENT SWITCH STATUS IS OFF FOR MORE THAN 30 SECONDS (ADJ.), THE BAS CONTROLLER SHALL ANNUNCIATE A WATER PUMP FAILURE ALARM TO THE BAS AND START THE STANDBY PUMP AND CHANGE IT TO BE THE LEAD PUMP.

HEAT RECOVERY CHILLER-HEATER PRIMARY WATER PUMP SPEED:
FLOW RATES AND PUMP SPEEDS SHALL BE DETERMINED BY SCHEDULED VALUES AND CONFIRMED BY THE COMMISSIONING AGENT DURING SYSTEM STARTUP.

HEAT RECOVERY CHILLER-HEATER PLANT CHILLED WATER CONTROL:
WHEN THE LEAD HRCH UNIT IS ENABLED, THE BAS SHALL OPEN CHILLED WATER ISOLATION VALVES OF THE LEAD HRCH. WHEN HRCH CHILLED WATER ISOLATION VALVES ARE IN THE FULLY OPEN POSITION, THE LEAD CHILLED WATER PUMP SHALL BE STARTED AND OPERATE CONTINUOUSLY PER ITS SEQUENCE. ONCE THE WATER FLOW IS PROVEN IN THE HRCH BY ITS CONTROL PANEL, THE HRCH SHALL BEGIN PRODUCING 42.0 DEG. F (ADJ.) WATER.
CHILLED WATER PUMP AND HRCH COOLING COMPONENTS SHALL BE DISABLED WHEN AMBIENT AIR TEMPERATURE FALLS BELOW 42.0 DEG. F (ADJ.).

HEAT RECOVERY CHILLER-HEATER PLANT HEATING HOT WATER CONTROL:
WHEN THE LEAD HRCH UNIT IS ENABLED, THE BAS SHALL OPEN HEATING HOT WATER ISOLATION VALVES OF THE LEAD HRCH. WHEN HRCH HEATING HOT WATER ISOLATION VALVES ARE IN THE FULLY OPEN POSITION, THE LEAD HEATING HOT WATER PUMP SHALL BE STARTED AND OPERATE CONTINUOUSLY PER ITS SEQUENCE. ONCE THE WATER FLOW IS PROVEN IN THE HRCH BY ITS CONTROL PANEL, THE HRCH SHALL BEGIN PRODUCING 140.0 DEG. F (ADJ.) WATER.
WHEN AMBIENT AIR TEMPERATURE INCREASES ABOVE 80.0 DEG. F (ADJ.), DECREASE HEATING HOT WATER SUPPLY TEMPERATURE DOWN TO 110.0 DEG. F (ADJ.).

DEFROST MODE:
HRCH CONTROL PANEL SHALL MANAGE DEFROST CYCLE TO PREVENT ACCUMULATION OF ICE ON THE REFRIGERANT TUBES. SIGNAL TO THE BAS WHEN IN DEFROST MODE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
CHILLED WATER SYSTEM:
- HIGH CHILLED WATER TEMP: IF THE CHILLED WATER SUPPLY TEMPERATURE IS GREATER THAN 45 DEG. F (ADJ.).
- LOW CHILLED WATER TEMP: IF THE CHILLED WATER SUPPLY TEMPERATURE IS LESS THAN 40 DEG. F (ADJ.).
- LOW CHILLED WATER FLOW: IF THE CHILLED WATER FLOW IS LESS THAN 90% (ADJ.) OF SETPOINT.

HEATING HOT WATER SYSTEM:
- HIGH HEATING HOT WATER TEMP: IF THE HEATING HOT WATER SUPPLY TEMPERATURE IS 10 DEG. F GREATER THAN SETPOINT.
- LOW HEATING HOT WATER TEMP: IF THE HEATING HOT WATER SUPPLY TEMPERATURE IS 10 DEG. F LESS THAN SETPOINT.
- LOW HEATING HOT WATER FLOW: IF THE HEATING HOT WATER FLOW IS LESS THAN 90% (ADJ.) OF SETPOINT.

3 HEAT RECOVERY CHILLER-HEATER SYSTEM SEQUENCE OF OPERATION
Scale: No Scale

GENERAL EXHAUST FAN EF-1

CONTROLS BY FAN MFGR:
INTERLOCK FAN CONTROLS WITH AIR HANDLING UNIT. WHEN AIR HANDLING UNIT IS ENERGIZED, EXHAUST FAN WILL RUN.

4 EXHAUST FAN CONTROLS
Scale: N.T.S.

EXHAUST FAN POINTS LIST

	HARDWARE POINTS				SOFTWARE POINTS						
POINT NAME:	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	SHOW ON GRAPHIC
EXHAUST FAN EF-1 START/STOP				X					X		X
EXHAUST FAN EF-1 STATUS			X								X
EXHAUST FAN EF-1 ALARM										X	X
			1	1					1	1	3
TOTAL HARDWARE (2)					TOTAL SOFTWARE (2)						

5 EXHAUST FAN POINTS LIST
Scale: N.T.S.

2 HEAT RECOVERY CHILLER-HEATER CONTROL DIAGRAM
Scale: No Scale

System Point Description	GRAPHIC	ANALOG HARDWARE INPUT (AI)	BINARY HARDWARE INPUT (BI)	ANALOG HARDWARE OUTPUT (AO)	BINARY HARDWARE OUTPUT (BO)	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	COMMUNICATION FAIL
	POINTS									ALARMS					
HEAT RECOVERY CHILLER HEATER PLANT SYSTEM ENABLE - CH SYS EN						X									
HEAT RECOVERY CHILLER HEATER 1 CHILLED WATER LEAVING WATER TEMPERATURE - HRCH1 CW LWT	X	X								X	X				
HEAT RECOVERY CHILLER HEATER 1 CHILLED WATER SUPPLY ISO VALVE OPEN STATUS - HRCH1 CWSV	X		X												
HEAT RECOVERY CHILLER HEATER 1 CHILLED WATER SUPPLY ISO VALVE OUTPUT - HRCH1 CWSV				X											
HEAT RECOVERY CHILLER HEATER 1 ENTERING CHILLED WATER TEMPERATURE - HRCH1 CW EWT		X								X	X				
HEAT RECOVERY CHILLER HEATER 1 ENTERING HOT WATER TEMPERATURE - HRCH1 HW EWT		X								X	X				
HEAT RECOVERY CHILLER HEATER 1 HOT WATER LEAVING WATER TEMPERATURE - HRCH1 HW LWT	X	X								X	X				
HEAT RECOVERY CHILLER HEATER 1 HOT WATER SUPPLY ISO VALVE OPEN STATUS - HRCH1 HWSV	X	X													
HEAT RECOVERY CHILLER HEATER 1 HOT WATER SUPPLY ISO VALVE OUTPUT - HRCH1 HWSV				X											
HEAT RECOVERY CHILLER HEATER 1 ISOLATION VALVE OPEN/CLOSE INTERVAL TIME - HRCH1 ISV						X									
HEAT RECOVERY CHILLER HEATER 1 LEAVING CHILLED WATER TEMPERATURE - HRCH1 CW LWT		X								X	X				
HEAT RECOVERY CHILLER HEATER 1 LEAVING HOT WATER TEMPERATURE - HRCH1 HW LWT		X								X	X				
HEAT RECOVERY CHILLER HEATER 1 SUPPLY WATER DIFFERENTIAL PRESSUE - HRCH1 DP	X	X												X	
HEAT RECOVERY CHILLER HEATER 1 WATER FLOW STATUS - HRCH1 FLW	X						X								
HEAT RECOVERY CHILLER HEATER 2 CHILLED WATER LEAVING WATER TEMPERATURE - HRCH2 CW LWT	X	X								X	X				
HEAT RECOVERY CHILLER HEATER 2 CHILLED WATER SUPPLY ISO VALVE OPEN STATUS - HRCH2 CWSV	X	X													
HEAT RECOVERY CHILLER HEATER 2 CHILLED WATER SUPPLY ISO VALVE OUTPUT - HRCH2 CWSV				X											
HEAT RECOVERY CHILLER HEATER 2 ENTERING CHILLED WATER TEMPERATURE - HRCH2 CHW EWT		X								X	X				
HEAT RECOVERY CHILLER HEATER 2 ENTERING HOT WATER TEMPERATURE - HRCH2 HW EWT		X								X	X				
HEAT RECOVERY CHILLER HEATER 2 HOT WATER LEAVING WATER TEMPERATURE - HRCH2 HW LWT	X	X								X	X				
HEAT RECOVERY CHILLER HEATER 2 HOT WATER SUPPLY ISO VALVE OPEN STATUS - HRCH2 HWSV	X	X													
HEAT RECOVERY CHILLER HEATER 2 HOT WATER SUPPLY ISO VALVE OUTPUT - HRCH2 HWSV				X											
HEAT RECOVERY CHILLER HEATER 2 ISOLATION VALVE OPEN/CLOSE INTERVAL TIME - HRCH2 ISV						X									
HEAT RECOVERY CHILLER HEATER 2 LEAVING CHILLED WATER TEMPERATURE - HRCH2 CW LWT		X								X	X				
HEAT RECOVERY CHILLER HEATER 2 LEAVING HOT WATER TEMPERATURE - HRCH2 HW LWT		X								X	X				
HEAT RECOVERY CHILLER HEATER 2 SUPPLY WATER DIFFERENTIAL PRESSUE - HRCH2 DP	X	X												X	
HEAT RECOVERY CHILLER HEATER 2 WATER FLOW STATUS - HRCH2 FLW	X						X								
CHILLED WATER BUFFER TANK LEAVING WATER TEMPERATURE - CWBT LWT	X	X								X	X				
CHILLED WATER PUMP 1 FAILURE - CHWP1	X					X						X			
CHILLED WATER PUMP 1 SPEED - CHWP1	X			X											
CHILLED WATER PUMP 1 START STOP - CHWP1	X				X										
CHILLED WATER PUMP 1 STATUS - CHWP1	X		X												
CHILLED WATER PUMP 2 FAILURE - CHWP2	X					X						X			
CHILLED WATER PUMP 2 SPEED - CHWP2	X			X											
CHILLED WATER PUMP 2 START STOP - CHWP2	X				X										
CHILLED WATER PUMP 2 STATUS - CHWP2	X		X												
CHILLED WATER RETURN TEMPERATURE - CHW RT	X	X								X	X				
CHILLED WATER SUPPLY DIFFERENTIAL PRESSURE - CHWS DP	X	X								X	X				
CHILLED WATER SUPPLY DIFFERENTIAL PRESSURE SETPOINT - CHWS DP SP	X					X									
CHILLED WATER SUPPLY FLOW - CHWS DF	X	X												X	
CHILLED WATER SUPPLY PRESSURE SETPOINT - CHWS DP SP	X					X									
CHILLED WATER SUPPLY TEMPERATURE - CHW ST	X	X								X	X				
CHILLED WATER SUPPLY TEMPERATURE SETPOINT - CHW ST SP	X					X									
HOT WATER BUFFER TANK LEAVING WATER TEMPERATURE - HWBT LWT	X	X								X	X				
HOT WATER PUMP 1 FAILURE - HWHP1	X					X						X			
HOT WATER PUMP 1 SPEED OUTPUT - HWHP1	X			X											
HOT WATER PUMP 1 START STOP - HWHP1	X				X										
HOT WATER PUMP 1 STATUS - HWHP1	X		X												
HOT WATER PUMP 2 FAILURE - HWHP2	X					X						X			
HOT WATER PUMP 2 SPEED - HWHP2	X			X											
HOT WATER PUMP 2 START STOP - HWHP2	X				X										
HOT WATER PUMP 2 STATUS - HWHP2	X		X												
HOT WATER RETURN TEMPERATURE - HW RT	X	X								X	X				
HOT WATER SUPPLY DIFFERENTIAL PRESSURE - HWS DP	X	X												X	
HOT WATER SUPPLY DIFFERENTIAL PRESSURE SETPOINT - HWS DP SP	X					X									
HOT WATER SUPPLY FLOW - HWS DF	X	X												X	
HOT WATER SUPPLY PRESSURE SETPOINT - HWS DP SP	X					X									
HOT WATER SUPPLY TEMPERATURE - HW ST	X	X								X	X				
HOT WATER SUPPLY TEMPERATURE OUTSIDE AIR HIGH LIMIT RESET - HW ST SP	X					X									
HOT WATER SUPPLY TEMPERATURE OUTSIDE AIR LOW LIMIT RESET - HW ST SP	X					X									
HOT WATER SUPPLY TEMPERATURE SETPOINT - HW ST SP	X					X									
HOT WATER SUPPLY TEMPERATURE WATER HIGH LIMIT RESET - HW ST SP	X					X									
HOT WATER SUPPLY TEMPERATURE WATER LOW LIMIT RESET - HW ST SP	X					X									
BAS COMMUNICATION STATE - BAS COM						X									
OUTDOOR AIR RELATIVE HUMIDITY LOCAL - OAH	X	X												X	
OUTDOOR AIR TEMPERATURE LOCAL - OAT	X	X												X	

1 HEAT RECOVERY CHILLER-HEATER POINTS LIST
Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY, JR. REGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060
APOGEE Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL CONTROLS
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Approved:
Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP
Drawing Number: M-505

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:33:07 AM
VA FORM 08-6231

Docusign Envelope ID: F0685764-3D35-4365-8C23-542E69C17E6F

BUFFER TANK SCHEDULE

MARK	SYSTEM	TANK TEMPERATURE MIN TEMP	TANK TEMPERATURE MAX TEMP	MAX OPERATING PRESSURE (PSI)	TANK VOLUME (GAL)	TANK CONNECTION (FLANGED)	TANK DIAMETER	TANK HEIGHT	WEIGHT (OPERATING)	NOTES
7A-CBT-1	CHILLED WATER	42	65	125	300	4"	36"	85"	2700	1, 2
7A-CBT-2	CHILLED WATER	42	65	125	300	4"	36"	85"	2700	1, 2
7A-HBT-1	HEATING HOT WATER	80	120	125	300	4"	36"	85"	2700	1, 2
7A-HBT-2	HEATING HOT WATER	80	120	125	300	4"	36"	85"	2700	1, 2

NOTES:
1. PROVIDE PRE-INSULATED BUFFER TANK WITH FOUR FLANGED CONNECTIONS, DRAIN, THERMOSTAT AND 12" HIGH PAINTED STEEL STAND. SIMILAR TO CEMLINE MODEL V300SEB.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIR FLOW	SUPPLY CFM	SUPPLY [L/s]	MIN OA CFM	MIN OA [L/s]	RETURN CFM	RETURN [L/s]	SUPPLY FAN MARK	RETURN OR RELIEF FAN MARK	EXHAUST FAN MARK	PREFILTER MARK	AFTER FILTER MARK	FINAL FILTER MARK	HEAT RECOVERY MARK	PREHEAT COIL MARK	COOLING COIL MARK	REHEAT COIL	HUMIDIFIER MARK	REMARKS
7A-AHU-1	104	CLC	CUSTOM MODULAR	VAV	7600	[3600]	2600	[1200]	5000	[2400]	1-SF5	1-RF5	1-EF5	1-PF5	1-AF5	1-FF5	N/A	1-PHC5	1-CC5	AT TU	1-H5	1, 2, 3

NOTES:
1. PROVIDE DUAL SUPPLY FANS EACH CAPABLE OF HANDLING TOTAL AIR VOLUME AND STATIC PRESSURE, SECOND FAN IS STANDBY. PROVIDE MOTORIZED SHUTOFF DAMPERS AT EACH FAN INLET. PROVIDE A VARIABLE FREQUENCY DRIVE (VFD) FOR EACH FAN FOR BALANCING AND CONTROL.
2. PROVIDE 8" HIGH BASE RAIL, FANS ON 2" DEFLECTION SPRING ISOLATORS, TOP DISCHARGE OUTLET, TOP RETURN INLET, AND ACCESS SPACE BETWEEN COILS FOR HIMIDIFIER DISPERSION TUBE.
3. TOTAL FAN STATIC SHALL INCLUDE EXTERNAL STATIC PRESSURE PLUS ALL COMPONENTS AND FILTER PRESSURE DROP AT MID-LIFE CONDITION.
4. PROVIDE BASE RAIL MINIMUM 8" HIGH.

HOT WATER HEATING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW CFM	AIR FLOW [L/s]	MAX FACE VELOCITY FPM	MAX FACE VELOCITY [M/s]	APD IN WG	APD [Pa]	EAT °F	EAT [°C]	LAT °F	LAT [°C]	TOTAL MIN CAPACITY MBH	TOTAL MIN CAPACITY [kW]	HOT WATER FLOW GPM	HOT WATER FLOW [L/s]	EWT °F	EWT [°C]	LWT °F	LWT [°C]	REMARKS
7A-HC-1	104	CLC	AHU-1	PREHEAT	10000	[4700]	400	[2]	0.25	[63]	23.2	[-5]	55	[13]	350	[1200]	38	[2]	110	[43]	95	[35]	---

FAN SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW CFM	AIR FLOW [L/s]	TSP IN	TSP [Pa]	TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER IN	DIAMETER [mm]	MIN % EFF	DRIVE	FAN MAX RPM	BHP	HP	[kW]	PHASE	VOLT	RPM	SPEED CONTROL	CONTROL SEQUENCE	REMARKS
7A-RF-1	104	CLC	RELIEF AIR	7600	[3600]	1.5	[380]	INLINE CENTRIFUGAL	BACKWARD INCLINED	II	ARR 9, INLINE, HORIZ. DISCHARGE	24.5	[610]	53%	BELT	1063	3.6	5	[4]	3	460	820	VARIABLE		1, 2, 5
7A-RF-2	104	CLC	RELIEF AIR	7600	[3600]	1.5	[380]	INLINE CENTRIFUGAL	BACKWARD INCLINED	II	ARR 9, INLINE, HORIZ. DISCHARGE	24.5	[610]	53%	BELT	1063	3.5	5	[4]	3	460	820	VARIABLE		1, 2, 5
7A-SF-1	104	CLC	1-AHU-1	7600	[3600]	7.5	[1900]	DOUBLE WIDTH DOUBLE INLET	AIRFOIL	II	ARR 3, CW ROTATION, TH DISCHARGE	20	[500]	75%	DIRECT	3600	17.9	20	[15]	3	460	1800	VARIABLE		1, 2, 4
7A-SF-2	104	CLC	1-AHU-1	7600	[3600]	7.5	[1900]	DOUBLE WIDTH DOUBLE INLET	AIRFOIL	II	ARR 3, CW ROTATION, TH DISCHARGE	20	[500]	75%	DIRECT	3600	17.9	20	[15]	3	460	1800	VARIABLE		1, 2, 4
7A-EF-1	ROOF	CLC	GENERAL EXHAUST	1100	[520]	0.5	[130]	SINGLE WIDTH SINGLE INLET	BACKWARD INCLINED	I	ARR 4, CW ROTATION, TH DISCHARGE	12	[300]	42%	DIRECT	1770	0.25	0.25	[ ]	1	115	1000	CONSTANT		1, 3, 6

NOTES:
1. ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 331 FT.
2. PROVIDE VARIABLE SPEED CONTROLLER.
3. PROVIDE WITH ALUMINUM BACKDRAFT DAMPER.
4. SUPPLY FANS ARE 100% REDUNDANT, PROVIDE SHUTOFF DAMPER AT EACH FAN, CLOSED WHEN FAN IS NOT OPERATING.
5. SPRING VIBRATION ISOLATOR HANGERS.
6. PROVIDE FAN SPEED CONTROLLER.

STEAM HUMIDIFER SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SEVICE	HUMIDIFIER TYPE	AIR FLOW CFM	SOURCE OF MAKEUP WATER	WATER FLOW GPM	WATER FLOW [L/s]	EWT °F	EWT [°C]	KW	VOLTS	PHASE	LBS/HR	[kg/HR]	REMARKS
7A-HU-1	MECHANICAL ROOM	1-AHU1	ELEC-STEAM	9635	RO WATER	0.35	[0.02]	65	[18]	64.2	460	3	178	[500]	1

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

EXPANSION TANK SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPROX SYSTEM VOLUME GAL	[L]	SYSTEM TEMPERATURE RANGE MIN °F	MIN [°C]	MAX °F	MAX [°C]	INITIAL PRESSURE IN TANK PSIG	[kPa]	MAX OPERATING PRESSURE PSIG	[kPa]	MIN VOLUME TANK GAL	[L]	MIN ACCEPTANCE VOLUME GAL	[L]	PIPE SIZE TO TANK IN	[mm]	COLD WATER FILL SIZE IN	[mm]	REMARKS
7A-ET-1	104	HEATING WATER	VERTICAL / BLADDER	400	[1500]	40	[4]	140	[60]	12	[83]	30	[210]	23	[87]	23	[87]	0.75	[19]	0.75	[19]	
7A-ET-2	104	CHILLED WATER	VERTICAL / BLADDER	700	[2600]	40	[4]	80	[27]	12	[83]	30	[210]	8	[30]	7	[26]	0.75	[19]	0.75	[19]	

AIR DEVICE SCHEDULE (RETURN)

MARK	TYPE	MIN CFM	MIN [L/s]	MAX CFM	MAX [L/s]	MAX APD IN WG	MAX APD [Pa]	MOUNTING	PANEL/FRAME SIZE IN x IN	PANEL/FRAME SIZE [mm x mm]	NECK SIZE IN x IN	NECK SIZE [mm x mm]	NC	DAMPER	FINISH	REMARKS
RG-1	PERFORATED	60	[28]	100	[47]	0.070	18.000	CEILING	24 x 24	[600 x 600]	6 DIAM	[152 DIAM]	13	NONE	WHITE	1, 2
RG-2	PERFORATED	170	[80]	250	[120]	0.090	23.000	CEILING	24 x 24	[600 x 600]	10 DIAM	[254 DIAM]	14	NONE	WHITE	1, 2
RG-3	PERFORATED	240	[110]	400	[190]	0.090	23.000	CEILING	24 x 24	[600 x 600]	12 DIAM	[305 DIAM]	12	NONE	WHITE	1, 2
RG-4	PERFORATED	320	[150]	500	[240]	0.090	23.000	CEILING	24 x 24	[600 x 600]	14 DIAM	[356 DIAM]	14	NONE	WHITE	1, 2
RG-5	PERFORATED	420	[200]	700	[330]	0.090	23.000	CEILING	24 x 24	[600 x 600]	16 DIAM	[406 DIAM]	16	NONE	WHITE	1, 2

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE DAMPER IN BRANCH DUCT AS SHOWN ON PLANS.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE

MARK	LOCATION	DUCT INLET	SYSTEM AIR HANDLING	MAX CFM	MAX [L/s]	MIN CFM	MIN [L/s]	CONTROL TYPE	CONTROL SEQUENCE	ROWS	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	FLOW (GPM)	CAPACITY (BTUH)	CONTROL VALVE TYPE	REMARKS
7A-TU-101	101	12	7A-AHU-1	1510	[710]	1370	[650]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	1	18800	TWO-WAY	1
7A-TU-103	103	8	7A-AHU-1	610	[290]	375	[180]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	6087	TWO-WAY	1
7A-TU-104	104	6	7A-AHU-1	560	[260]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	2.5	10846	TWO-WAY	1
7A-TU-105	105	6	7A-AHU-1	220	[100]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2499	TWO-WAY	1
7A-TU-106	106	6	7A-AHU-1	225	[110]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2592	TWO-WAY	1
7A-TU-107	107	6	7A-AHU-1	225	[110]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2584	TWO-WAY	1
7A-TU-108	108	6	7A-AHU-1	225	[110]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2597	TWO-WAY	1
7A-TU-109	109	6	7A-AHU-1	225	[110]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2551	TWO-WAY	1
7A-TU-110	110	6	7A-AHU-1	225	[110]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2629	TWO-WAY	1
7A-TU-111	111	6	7A-AHU-1	225	[110]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2560	TWO-WAY	1
7A-TU-112	112	6	7A-AHU-1	225	[110]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2636	TWO-WAY	1
7A-TU-113	113	6	7A-AHU-1	225	[110]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	2632	TWO-WAY	1
7A-TU-114	114	6	7A-AHU-1	255	[120]	165	[78]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	3029	THREE-WAY	1
7A-TU-117	117	8	7A-AHU-1	495	[230]	355	[170]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	5189	TWO-WAY	1
7A-TU-118	118	6	7A-AHU-1	70	[33]	70	[33]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	387	TWO-WAY	1
7A-TU-119	119	6	7A-AHU-1	110	[52]	110	[52]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	594	TWO-WAY	1
7A-TU-120	120	8	7A-AHU-1	450	[210]	280	[130]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	4314	TWO-WAY	1
7A-TU-121	121	6	7A-AHU-1	100	[47]	100	[47]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	1024	TWO-WAY	1
7A-TU-122	122	8	7A-AHU-1	460	[220]	255	[120]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	3951	TWO-WAY	1
7A-TU-123	123	6	7A-AHU-1	215	[100]	65	[31]	VAV	5 DEGREE DEADBAND	2	60	85	110	85	.5	1022	TWO-WAY	1

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

AIR DEVICE SCHEDULE (SUPPLY)

MARK	TYPE	MIN CFM	MIN [L/s]	MAX CFM	MAX [L/s]	MAX APD IN WG	MAX APD [Pa]	MOUNTING	PANEL/FRAME SIZE IN x IN	PANEL/FRAME SIZE [mm x mm]	NECK SIZE IN	NECK SIZE [mm]	NC	DAMPER	FINISH	REMARKS
SD-1	LOUVERED FACE	70	[33]	280	[130]	0.080	[20]	CEILING	24 x 24	[600 x 600]	8 ø	[203 ø]	20	NONE	WHITE	1, 2
SD-2	LOUVERED FACE	110	[52]	380	[180]	0.090	[23]	CEILING	24 x 24	[600 x 600]	10 ø	[254 ø]	22	NONE	WHITE	1, 2
SD-3	LOUVERED FACE	160	[76]	470	[220]	0.080	[20]	CEILING	24 x 24	[600 x 600]	12 ø	[305 ø]	19	NONE	WHITE	1, 2
SD-4	LOUVERED FACE	220	[100]	640	[300]	0.090	[23]	CEILING	24 x 24	[600 x 600]	14 ø	[356 ø]	21	NONE	WHITE	1, 2
SD-5	SUPPLY REGISTER	80	[38]	160	[76]	0.090	[23]	DUCT	12 x 8	[600 x 600]	10 x 6	[406 ø]	25	NONE	WHITE	1, 2
SD-6	LINEAR SLOT	140	[66]	500	[240]	0.270	[68]	CEILING	24 x 5	[600 x 127]	10 ø	[254 ø]	41	NONE	---	1, 2

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE DAMPER IN BRANCH DUCT AS SHOWN ON PLANS.

AIR DEVICE SCHEDULE (EXHAUST)

MARK	TYPE	MIN CFM	MIN [L/s]	MAX CFM	MAX [L/s]	MAX APD IN WG	MAX APD [Pa]	MOUNTING	PANEL/FRAME SIZE IN x IN	PANEL/FRAME SIZE [mm x mm]	NECK SIZE IN x IN	NECK SIZE [mm x mm]	NC	DAMPER	FINISH	REMARKS
EG-1	PERFORATED	60	[28]	100	[47]	0.070	18.000	CEILING	24 x 24	[600 x 600]	6 DIAM	[152 DIAM]	13	NONE	WHITE	1, 2
EG-2	PERFORATED	100	[47]	170	[80]	0.090	23.000	CEILING	24 x 24	[600 x 600]	8 DIAM	[203 DIAM]	13	NONE	WHITE	1, 2

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE DAMPER IN BRANCH DUCT AS SHOWN ON PLANS.

PUMP SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	FLUID	FLOW GPM	FLOW [L/s]	HEAD FT	HEAD [kPa]	TEMPERATURE °F	TEMPERATURE [°C]	MIN % EFF	NOMINAL POWER HP	NOMINAL POWER [kW]	PHASE	VOLT	MAX RPM	SPEED CONTROL	REMARKS
7A-HHW-P1	104	CLC	HEATING WATER	END SUCTION	30% PROPELYNE GLYCOL	111	[7]	55	[880]	110	[43]	50	3	[2]	3	208	2000	VARIABLE	----
7A-HHW-P2	104	CLC	HEATING WATER	END SUCTION	30% PROPELYNE GLYCOL	111	[7]	55	[880]	110	[43]	50	3	[2]	3	208	2000	VARIABLE	----
7A-CHW-P1	104	CLC	CHILLED WATER	END SUCTION	30% PROPELYNE GLYCOL	130	[8]	40	[640]	45	[7]	50	3	[2]	3	208	1800	VARIABLE	----
7A-CHW-P2	104	CLC	CHILLED WATER	END SUCTION	30% PROPELYNE GLYCOL	130	[8]	40	[640]	45	[7]	50	3	[2]	3	208	1800	VARIABLE	----
7A-DHP-1	104	CLC	DOM WATER HTR SOURCE WATER	IN-LINE	30% PROPELYNE GLYCOL	30	[2]	25	[400]	90	[32]	50	0.5	[ ]	1	120	1800	CONSTANT	----
7A-DHP-2	104	CLC	DOM WATER HTR SOURCE WATER	IN-LINE	30% PROPELYNE GLYCOL	30	[2]	25	[400]	90	[32]	50	0.5	[ ]	1	120	1800	CONSTANT	----

AIR SEPARATOR SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	SIZE IN IN	SIZE IN [mm]	FLOW GPM	FLOW [L/s]	WPD FT	WPD [kPa]	BUILT-IN STRAINER REQ'D	REMARKS
7A-AS-1	104	HEATING WATER	FULL FLOW TANGENTIAL	3	[75]	110	[7]	1	[3]	NO	1
7A-AS-2	104	CHILLED WATER	FULL FLOW TANGENTIAL	3	[75]	130	[8]	1	[3]	NO	1

NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

AIR FILTER SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	MERV RATING	AIR FLOW CFM	AIR FLOW [L/s]	APD INITIAL IN	APD INITIAL [mm]	APD CHANGEOVER IN	APD CHANGEOVER [mm]	HOUSING TYPE	#	SIZE IN	SIZE [mm]	ARRANGEMENT	REMARKS
7A-PF1	SUPPLY	BUILDING 1	7A-AHU1	8	10000	[4700]	0.17	[4]	0.7	[18]	SIDE	18	24 x 24 x 2	[600 x 600 x 50]	6 WIDE BY 3 HIGH	-----
7A-PF-2	SUPPLY	BUILDING 1	7A-AHU1	11	10000	[4700]	0.5	[13]	1	[25]	SIDE	18	24 x 24 x 12	[600 x 600 x 300]	6 WIDE BY 3 HIGH	----
7A-AF-1	SUPPLY	BUILDING 1	7A-AHU1	13	10000	[4700]	0.75	[19]	1.5	[38]	SIDE	18	24 x 24 x 12	[600 x 600 x 300]	6 WIDE BY 3 HIGH	FILTER RACK SHALL BE CAPABLE TO HOLD MERV 16 FILTERS

VFD SCHEDULE

MARK	LOCATION	EQUIPMENT SERVED	ELECTRICAL HP	ELECTRICAL VOLTAGE	REMARKS
7A-VFD-HP1	104	HHW-P1	3	208	NEMA 1, WITH BYPASS
7A-VFD-HP2	104	HHW-P2	3	208	NEMA 1, WITH BYPASS
7A-VFD-CP1	104	CHW-P1	3	208	NEMA 1, WITH BYPASS
7A-VFD-CP2	104	CHW-P2	3	208	NEMA 1, WITH BYPASS
7A-VFD-RF1	104	1-RF-1	2	460	NEMA 1, WITH BYPASS
7A-VFD-RF2	104	1-RF-2	2	460	NEMA 1, WITH BYPASS
7A-VFD-SF1	104	1-SF-1	20	460	NEMA 1, WITH BYPASS
7A-VFD-SF2	104	1-SF-2	20	460	NEMA 1, WITH BYPASS

CHILLED WATER COOLING COIL SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW CFM	AIR FLOW [L/s]	MAX FACE VELOCITY FPM	MAX FACE VELOCITY [M/s]	APD IN WG	APD [Pa]	EAT Db °F	EAT Db [°C]	EAT Wb °F	EAT Wb [°C]	LAT Db °F	LAT Db [°C]	LAT Wb °F	LAT Wb [°C]	TOTAL CAPACITY MBH	TOTAL CAPACITY [kW]	SENSIBLE CAPACITY MBH	SENSIBLE CAPACITY [kW]	CHILLED WATER FLOW GPM	FLOW [L/s]	EWT °F	EWT [°C]	LWT °F	LWT [°C]	WPD FT	WPD [M]	REMARKS
7A-CWCC-1	107	CLC	AHU-1	10000	[4700]	450	[2]	0.72	[180]	80	[27]	67	[19]	55	[13]	54	[12]	384	[110]	276	[81]	51	[3]	42	[6]	57	[14]	3.95	[1]	-----

NOTES:
1. THE COOLING COIL FIN SPACING SHALL NOT EXCEED 132 FINS PER FOOT [400 FINS PER METER].

AIR-COOLED HEAT RECOVERY HEAT PUMP CHILLER-HEATER SCHEDULE

MARK	TYPE	COMPRESSOR TYPE	COMPRESSOR #	COOLING AMBIENT AIR TEMP °F	COOLING EWT °F	COOLING LWT °F	COOLING CAPACITY TONS	COOLING FLOW GPM	COOLING WPD FT H2O	COOLING IPLV BTU/Wh	HEATING AMBIENT AIR TEMP °F	HEATING EWT °F	HEATING LWT °F	HEATING CAPACITY MBH	HEATING FLOW GPM	HEATING WPD FT H2O	COP	V/PH/Hz	MCA AMPS	MOCP AMPS	REMARKS
7A-HRCH-1	MODULAR (1 MODULE)	SCROLL	2 PER MODULE	96.4	54	44	34	86.84	17.4	19.63	23.2	95	110	338	47.44	4.97	2.5	460/3/60	74	100	
7A-HRCH-2	MODULAR (1 MODULE)	SCROLL	2 PER MODULE	96.4	54	44	34	86.84	17.4	19.63	23.2	95	110	338	47.44	4.97	2.5	460/3/60	74	100	
7A-HRCH-3	MODULAR (1 MODULE)	SCROLL	2 PER MODULE	96.4	54	44	34	86.84	17.4	19.63	23.2	95	110	338	47.44	4.97	2.5	460/3/60	74	100	

1 **PRESSURIZATION MAP**
Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

WILLIAM ROSCOE SHIPLEY JR. REGISTERED No. 12100087 STATE OF INDIANA PROFESSIONAL ENGINEER
6/19/2025

PROJECT MANAGER — ACG Project Number 23-060

APOGEE Engineers | Architects
© COPYRIGHT Apogee Consulting Group, P.A.

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER 586-401

Building Number # 7A

Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: WRS | Drawn: PRP

Drawing Number: M-601

Dwg 15 of 15

C:\Users\wshipley\Documents\MP_23-060-VA Jackson-Construct CLC_R23_wshipley.rvt
6/18/2025 9:33:08 AM
VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA

ALTERNATE NOTES

BID DEDUCT ALTERNATE #1
ALL WORK IN CONTRACT EXCEPT CHANGE FENCE AND PYLONS TO METAL FENCE. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #2
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 AND SUBSTITUTE BRICK IN PLACE OF RAINSCREEN. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #3
ALL WORK IN CONTRACT EXCEPT DEDUCT #1, #2, AND REMOVE SCREEN SYSTEM AT FIRST-FLOOR PORCH. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #4
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #3 AND REMOVE SCREEN SYSTEM AT GROUND FLOOR PORCH. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #5
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #4 AND OMIT LANDSCAPE/HARDSCAPE IN THE SOUTHERN COURTYARD. SEE SHEET A101.1.
BID DEDUCT ALTERNATE #6
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #5 AND ELIMINATE SCREEN PORCH, INCLUDING ASSOCIATED LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, AND NOTIFICATION DEVICES. INSTALL LIGHT FIXTURE M1E AT DOUBLE DOORS EXITING THE BUILDING. INSTALL PULL STATION AT DOUBLE DOORS EXITING THE BUILDING. SEE SHEETS EL101, EP103, AND FA101.
BID DEDUCT ALTERNATE #7
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #6 AND ELIMINATE LANDSCAPE LIGHTING, INCLUDING LIGHT FIXTURES AND LIGHTING CONTROLS. SEE SHEET ES101 AND EL101.
BID DEDUCT ALTERNATE #8
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #7 AND OMIT CANOPIES. SEE SHEET A-105.
BID DEDUCT ALTERNATE #9
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #8 AND ELIMINATE NORTH COURTYARD. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #10
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #9 AND REDUCE LANDSCAPING, TREE, AND SHRUB CALIPERS. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #11
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #10 AND ELIMINATE THIRD CHILLER, INCLUDING ASSOCIATED BREAKER, DISCONNECT, AND WIRING. SEE SHEET E-401.
BID DEDUCT ALTERNATE #12
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #11 AND MOVE CEILING LIFTS TO ACTIVATION BUDGET. SEE SHEET A-104.1.
BID DEDUCT ALTERNATE #13
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #12 AND PLACE WINDOW SHADES IN THE ACTIVATION BUDGET.
BID DEDUCT ALTERNATE #14
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #13 AND ELIMINATE WINDOW SOFFITS AND SOLID SURFACE SILLS. SEE SHEET A-512 DETAIL 10.
BID DEDUCT ALTERNATE #15
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #14 AND SHELL FIVE RESIDENT ROOMS. INSTALL ELECTRICAL WIRING, BOXES, SWITCHES AS SHOWN, EXCLUDING LIGHT FIXTURES C1 AND D2. INSTALL LIGHT FIXTURE F1 AND CIRCUIT TO WALL SWITCH PER DETAIL 5/E-401. SEE SHEET EL101.
BID DEDUCT ALTERNATE #16
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #15 AND ELIMINATE BENCHES. SEE SHEET A-101.1.

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)
1PH	1 PHASE
2/C	TWO-CONDUCTOR (3/C, 4/C, ETC.)
2W	TWO-WIRE (3W, 4W, ETC.)
3PH	3 PHASE
A	AMPERE
AAP	ALARM ANNUNCIATOR PANEL
AC	ABOVE COUNTER
	AIR CONDITIONER
	ALTERNATING CURRENT
ACC	ACCESSIBLE
ACLG	ABOVE CEILING
ADO	AUTOMATIC DOOR OPENER
A/E	ARCHITECT/ENGINEER
AF	AMP FRAME
AFC	AVAILABLE FAULT CURRENT (KILOAMPS)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
APPROX	APPROXIMATELY
ARCH	ARCHITECT, ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BATT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BYP	BYPASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATED
CAP	CAPACITY
CAT	CATALOG, CATEGORY
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCR	CONTROL CONTACTOR
CCT	CORRELATED COLOR TEMPERATURE
CCTV	CLOSED CIRCUIT TELEVISION
cd	CANDELA
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR-FURNISHED
CKT	CIRCUIT
CLG	CEILING
CO	CONTRACTING OFFICER
COAX	COAXIAL CABLE
COMM	COMMUNICATION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CTR	CENTER
CU	COPPER
CU FT	CUBIC FEET
D	DEMOLITION
dB	DECIBEL
DB	DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLISH/DEMOLITION
DEPT	DEPARTMENT
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE THROW
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
ESMT	EASEMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
	ELECTRIC WATER HEATER
EX	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FPN	FUSED PER NAMEPLATE
FU	FUSE
FUSD	FUSED SAFETY DISCONNECT SWITCH
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP BD	GYPSUM BOARD
HID	HIGH-INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HARD WIRED
IES	ILLUMINATION ENGINEERING SOCIETY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
I/W	INTERLOCK WITH
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LED	LIGHT-EMITTING DIODE
LF	LINEAR FEET/FOOT
LM	LUMEN
LRA	LOCKED ROTOR AMPS
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
	METAL-CLAD (CONDUIT)
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SWITCH
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOA	MULTIOUTLET ASSEMBLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSBD	MAIN SWITCHBOARD
MT	MOUNT
MV	MEDIUM VOLTAGE
MTR	MOTOR, MOTORIZED
MTS	MANUAL TRANSFER SWITCH
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFSD	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OL	OVERLOAD
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PCB	POLYCHLORINATED BIPHENYL
PC	PHOTOELECTRIC CELL
PDU	POWER DISTRIBUTION UNIT
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
POE	POWER-OVER-ETHERNET
PR	PAIR
PRI	PRIMARY
PROJ	PROJECTION
PRV	POWER ROOF VENTILATOR
PT	POTENTIAL TRANSFORMER
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QTY	QUANTITY
RL	RELOCATE/RELOCATED
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
RTU	ROOF TOP UNIT
SC	SURFACE CONDUIT
SEC	SECONDARY
SF	SQUARE FEET/FOOT
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SIM	SIMILAR
S/N	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SR	SURFACE RACEWAY
SS	STAINLESS STEEL
SSTV	SECURITY SURVEILLANCE TELEVISION
SSW	SELECTOR SWITCH
STD	STANDARD
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TC	TIMECLOCK
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TERM	TERMINAL
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TR	TAMPER RESISTANT
T-STAT	THERMOSTAT
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UT	UNDERGROUND TELEPHONE
UTP	UNSHIELDED TWISTED PAIR
UTIL	UTILITY
UV	UNIT VENTILATOR OR ULTRAVIOLET
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERES
VAMC	VETERANS ADMINISTRATION MEDICAL CENTER
VD	VOLTAGE DROP
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHER-PROTECTED
XFMR	TRANSFORMER
XFR	TRANSFER
∠	ANGLE
@	AT
Δ	DELTA
'	FEET
"	INCHES
#	NUMBER
Φ	PHASE
℄	CENTER LINE
PL	PLATE

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL DEVICES, FIXTURES, EQUIPMENT AND FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICANS WITH DISABILITIES ACT AND WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND VA STANDARDS.
2. PROVIDE ADDITIONAL SUPPORT FOR DEVICES, FIXTURES, EQUIPMENT AND FEEDERS WHERE THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
3. FIRESTOP, DRAFTSTOP, SMOKESTOP AND/OR PROTECT THE ANNULAR SPACE AROUND ALL PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILING, AND ROOFS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, UL LISTING REQUIREMENT, SPECIFICATIONS, AND THE APPLICABLE BUILDING CODES.
4. VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES, TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
5. PROTECT EXISTING UNDERGROUND AND BUILDING INTERIOR UTILITIES DURING CONSTRUCTION.
6. BRANCH CIRCUIT CONDUCTORS SHALL BE 12 AWG COPPER MINIMUM.
7. COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
8. ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
9. MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES, TO INDICATE A QUALITY STANDARD, AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED. ALL PRODUCTS MUST COMPLY WITH "BUY AMERICAN ACT".
10. ALL FEEDERS AND CIRCUITRY SHALL BE TORQUED PER THE PANEL, BREAKER, AND/OR PARTICULAR EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
11. CIRCUITRY TO SWITCHES, RECEPTACLES, AND ALL OTHER DEVICES SHALL BE TERMINATED ON THE DEVICE'S SCREW TERMINALS.
12. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, OUTLET, FIXTURE, OR EQUIPMENT UNLESS NOTED OTHERWISE.
13. ALL WIRE TERMINATIONS SHALL BE RATED FOR 75 DEGREES C.
14. ALL CONDUCTORS SHALL HAVE THHN/THWN INSULATION, UNLESS OTHERWISE NOTED.
15. ALL CONDUIT SHALL BE RGS OR EMT UNLESS OTHERWISE NOTED. FMC CONDUIT SHALL BE USED ON VIBRATING EQUIPMENT (MAXIMUM LENGTH OF 6 FEET). PVC SHALL BE USED FOR UNDERGROUND CONDUIT OR WHERE CONCRETE-ENCASED. WHERE VIBRATING EQUIPMENT IS LOCATED OUTSIDE, LFMC CONDUIT SHALL BE USED (MAXIMUM SIX FEET) FOR FINAL CONNECTIONS.
16. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
17. FOR ALL LED FIXTURES, THE FIXTURE MUST BE CAPABLE OF SELF-RESETTING TO THE SWITCHED/CONTROLLED STATE DURING ANY FLUCTUATION IN POWER SUPPLY WHERE AUTOMATIC PROTECTIVE MEASURES DISABLE THE LED LAMPS. PROVIDE A LETTER OR STATEMENT FROM THE MANUFACTURER, OR OTHER ACCEPTABLE PROOF, THAT ALL LED FIXTURES, WITH OR WITHOUT BROWNOUT PROTECTION, WILL RETURN TO THE SWITCHED/CONTROLLED STATE AUTOMATICALLY. PROVIDE STATEMENT WITH THE FIXTURE SUBMITTALS.
18. IN CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK , AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.
19. COMPRESSION COUPLINGS SHALL BE USED. NO SET SCREW FITTINGS ARE ALLOWED.
20. MINIMUM CONDUIT SIZE TO BE USED IS 3/4".
21. FEEDER TAGS APPENDED WITH 'VD' ARE UPSIZED IN AMPACITY DUE TO VOLTAGE DROP.
22. ALL ITEMS AND MATERIALS SHOWN, INDICATED, OR REQUIRED FOR A COMPLETE PROJECT SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR, UNLESS NOTIFIED OTHERWISE.
23. CONTRACTOR SHALL COORDINATE ANY ELECTRICAL SYSTEM REQUIRED SHUTDOWN WITH THE COR TWO WEEKS IN ADVANCE AND CONFIRM 48 HOURS PRIOR.
24. CONTRACTOR SHALL OBTAIN A VA HOSPITAL DIRECTOR ISSUED, HOT WORK PERMIT FROM THE COR OR APPROVED REPRESENTATIVE. CONTRACTOR SHALL OBTAIN THE PERMIT A MINIMUM OF TWO WEEKS PRIOR TO ANY WORK THAT WILL CAUSE A POWER OUTAGE OR WORK THAT IS CONSIDERED "HOT WORK".
25. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL TESTING ASSOCIATED WITH ELECTRICAL SYSTEM COMMISIONING PER SPECIFICATION.

LIGHTNING PROTECTION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	LIGHTNING PROTECTION CONDUCTOR
	LIGHTNING PROTECTION AIR TERMINAL
	LIGHTNING PROTECTION GROUND ROD
	LIGHTNING PROTECTION DOWN CONDUCTOR

TEMPORARY FIRE STOPPING NOTE

IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIRESTOPPED AT THE END OF THE WORK SHIFT DUE TO THE NEED TO PULL ADDITIONAL CABLES, TEMPORARY FIRESTOPPING COMPOSED OF MINERAL WOOL SHALL BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.

FIRE WALL RATINGS

——◆◆——◆◆——	2 HOUR FIRE SEPARATION
——◆——◆——	1 HOUR FIRE SEPARATION
——S——S——	SMOKE RATED

ELECTRICAL SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION
	18"	120V SIMPLEX RECEPTACLE
	18"	120V DUPLEX RECEPTACLE
	18"	120V DUPLEX RECEPTACLE EMERGENCY OUTLET AND COVER PLATE SHALL BE RED IN COLOR
	18"	120V QUADRUPLEX RECEPTACLE
	18"	120V QUADRUPLEX RECEPTACLE EMERGENCY OUTLET AND COVER PLATE SHALL BE RED IN COLOR
	18"	208V DUPLEX RECEPTACLE
	18"	SPECIAL RECEPTACLE
		120V DUPLEX RECEPTACLE FLOOR BOX
		120V DUPLEX RECEPTACLE EMERGENCY FLOOR BOX OUTLET AND COVER PLATE SHALL BE RED IN COLOR
		120V QUADRUPLEX RECEPTACLE FLOOR BOX
		120V QUADRUPLEX RECEPTACLE EMERGENCY FLOOR BOX OUTLET AND COVER PLATE SHALL BE RED IN COLOR
		RECEPTACLE MODIFIERS: AC: 10" ABOVE COUNTERTOP GFI: GROUND FAULT CURRENT INTERRUPTER WP: WEATHERPROOF ENCLOSURE DED: DEDICATED CIRCUIT
	AS NOTED	JUNCTION BOX, WALL MOUNTED, PURPOSE AS NOTED
J CLNG		JUNCTION BOX, CEILING MOUNTED, PURPOSE AS NOTED
J		JUNCTION BOX, FLOOR MOUNTED, PURPOSE AS NOTED
E	AS NOTED	EQUIPMENT CONNECTION
	72" TOP	DISCONNECT SWITCH NON-FUSED
	72" TOP	DISCONNECT SWITCH FUSED
$	48"	SINGLE POLE WALL SWITCH: 48" AFF STANDARD UNO
		SWITCH MODIFIERS: M: MOTOR-RATED
VFD	AS NOTED	VERIABLE FREQUENCY DRIVE
M	AS NOTED	MOTOR

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
TOP: HEIGHT TO TOP OF DEVICE
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.

LIGHTING SYMBOL LEGEND

SYMBOL	HEIGHT AFF *	DESCRIPTION
	---	2' X 4' RECESSED ARCHITECTURAL TROFFER
	---	CONTINUOUS LINEAR COVE VARIOUS LENGTHS
	---	24" ROUND PENDENT
	---	4' LINEAR STRIP - SUSPENDED
	---	4' LINEAR STRIP - SUSPENDED - EMERGENCY BACK UP
	---	6" DIAMETER RECESSED DOWNLIGHT
	---	6" DIAMETER RECESSED DOWNLIGHT - EMERGENCY BACK UP
	7'-5" BOTTOM	EXIT SIGN - WALL MOUNTED
	---	EXIT SIGN - CEILING MOUNTED
	7'-6" CENTER	EMERGENCY LIGHT BATTERY OPERATED - WALL MOUNTED
	6'-0" CENTER	WALL SCONCE - EMERGENCY BACK UP
	6'-6" BOTTOM	DECORATIVE PENDENT
	10'-0" BOTTOM	4'-0" LINEAR DIRECT - WALL MOUNTED
	---	EXTERIOR BOLLARD
	---	EXTERIOR LANDSCAPE FLOOD
$	48" CENTER	SINGLE POLE WALL SWITCH
		SWITCH MODIFIERS: OS: OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY VS: VACANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY VSD: VACANCY SENSOR, LINE VOLTAGE, DIMMER OSD: OCCUPANCY SENSOR, LINE VOLTAGE, DIMMER LV: LOW VOLTAGE D: LINE VOLTAGE DIMMER F: FAN CONTROL 1B: SINGLE ZONE LOW VOLTAGE DIMMER 2B: TWO ZONE LOW VOLTAGE DIMMER 3B: THREE ZONE LOW VOLTAGE DIMMER 4B: FOUR ZONE LOW VOLTAGE DIMMER 3: 3 WAY 4: 4 WAY
VS	---	VACANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY - CEILING MOUNTED
OS	---	OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY - CEILING MOUNTED
OS	---	OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY - WALL/CORNER MOUNTED
RCD	---	LOW VOLTAGE LIGHTING CONTROL DEVICE WITH 0-10V DIMMING
RCD2	---	DUAL RELAY LOW VOLTAGE LIGHTING CONTROL DEVICE WITH 0-10V DIMMING
RCD3	---	THREE RELAY LOW VOLTAGE LIGHTING CONTROL DEVICE WITH 0-10V DIMMING
LS	---	LIGHT LEVEL SENSOR, SINGLE ZONE DIMMING CLOSED LOOP - CEILING MOUNTED

* - ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.

ELECTRICAL SYMBOL NOTES

A1 b — THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER OR AN UPPER CASE LETTER AND NUMBER.
THE SWITCH DESIGNATION (IF NEEDED) IS INDICATED BY A LOWER CASE LETTER.

EXAMPLE: LIGHTING FIXTURE TYPE 'A1' IS CONTROLLED BY SWITCH 'b'.

EXIT SIGNS: STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S).

HALF SHADED LIGHTING FIXTURES SHALL BE DESIGNATED AS EMERGENCY.

E1 — EXAMPLE 1: WALL MOUNTED EXIT SIGN TYPE 'E1' WITH SINGLE FACE AND DIRECTIONAL ARROW.

E2 — EXAMPLE 2: CEILING MOUNTED EXIT SIGN TYPE 'E2' WITH DOUBLE FACE AND DIRECTIONAL ARROWS.

DEVICES: THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

c — EXAMPLE: SPLIT DUPLEX RECEPTACLE; ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH 'c'.

THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

d — EXAMPLE: SINGLE POLE SWITCH 'd' TO CONTROL LIGHTING FIXTURES INDICATED BY 'd'.

TRANSFORMERS: THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER 'T'. SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS.

T1 — EXAMPLE: TRANSFORMER TYPE 'T1'.

'LPN' — PANELBOARDS: PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

— SHEET KEY NOTE: SEE THE SHEET KEY NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE HEXAGON.

— DEMOLITION KEY NOTE: SEE THE SHEET KEY NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE SQUARE.

HOME RUN TO BRANCH CIRCUIT PANEL: THE PANEL DESIGNATION AND CIRCUIT DESIGNATION ARE SHOWN ADJACENT TO THE HOME RUN ARROW.
CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANEL SCHEDULE WITH THE CORRESPONDING PANEL AND CIRCUIT DESIGNATION.

'LPN'-1,3,5 — EXAMPLE: HOME RUN TO PANELBOARD 'LPN'; CIRCUITS 1, 3, 5.

SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

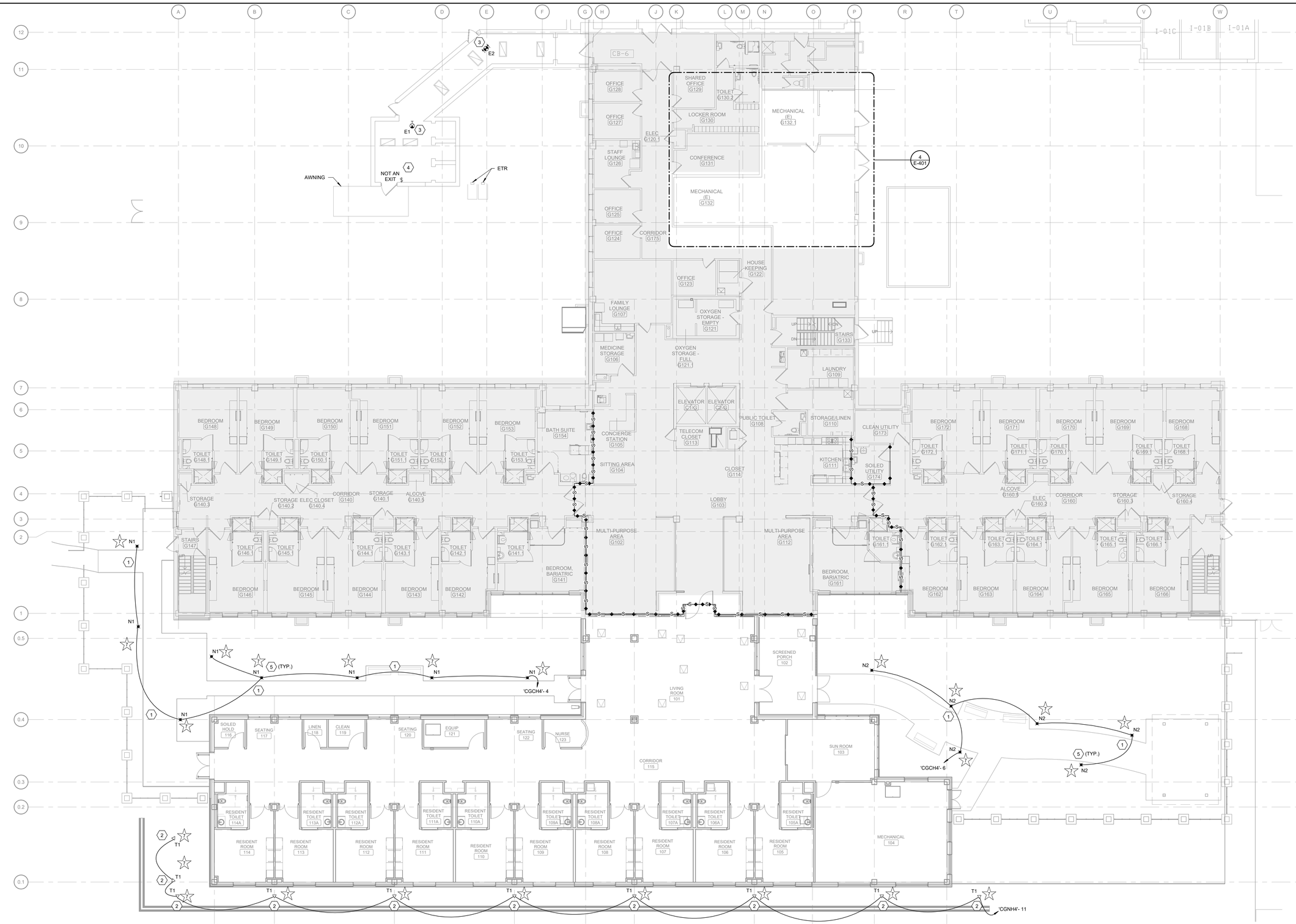
APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420
© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL GENERAL NOTES, SYMBOL LEGENDS, AND ABBREVIATIONS
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Approved:
Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH
Drawing Number: E-001

C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chansonCY4F9.rvt
6/18/2025 9:49:24 AM
VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA



1 SITE POWER AND LIGHTING PLAN

Scale: 1" = 10'-0"

SHEET NOTES:

A. ALL EXISTING CONDITIONS, CONDUITS, AND DEVICES ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION. VERIFY EXISTING CONDITIONS.

B. COORDINATE ALL WORK BETWEEN TRADES AND DISCIPLINES.

C. ALL EXTERIOR LIGHTING IS CONTROLLED BY PHOTOCELL.

D. SEE E-601 FOR THE LIGHTING FIXTURE SCHEDULE.

DEDUCT ALTERNATE NOTES

GC TO REFER TO DEDUCT ALTERNATE LIST ON SHEET E-001 AND COORDINATE ACCORDINGLY.

KEY NOTES:

1. CONDUIT TO LIGHTS TO BE INSTALLED PARALLEL TO WALKWAY AND CROSS UNDER AT 90 DEGREES TO EXTENT POSSIBLE. MARK LOCATION OF CONDUIT ON AS-BUILT DRAWINGS.
2. T1 FIXTURES TO BE CONTROLLED BY PHOTOCELL MOUNTED ON ROOF. PHOTOCELL TO FACE SOUTH SOUTH AND IN AN AREA OF THE ROOF WITH AN UNOBSTRUCTED VIEW OF THE SKY. CENTER LIGHTS BETWEEN BUILDING AND RETAINING WALL.
3. PROVIDE NEW EXIT SIGN AND TIE INTO EXISTING LIFE SAFETY CIRCUIT.
4. RELOCATE SWITCH AS NECESSARY TO ACCOMODATE NEW DOOR.
5. N2 FIXTURES TO BE CONTROLLED BY INTEGRAL PHOTOCELL.

SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SITE POWER AND LIGHTING PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER 586-401

Building Number # 7A

Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH

Drawing Number: ES101

Dwg 2 of 13

C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chansonCYHF9.rvt
6/18/2025 9:49:30 AM
VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA

1 GROUND FLOOR LIGHTING PLAN

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

0 4 8 16 NORTH

SHEET NOTES:

A. ALL EXISTING CONDITIONS, CONDUITS, AND DEVICES ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION. VERIFY EXISTING CONDITIONS.

B. COORDINATE ALL WORK BETWEEN TRADES AND DISCIPLINES.

C. ALL INTERIOR UN-SWITCHED EXIT SIGNS SHALL BE CIRCUITED FROM EMERGENCY LIGHTING CIRCUIT 'CGCH4'-2, UNLESS NOTED OTHERWISE, BUT AHEAD OF ANY SWITCHING.

D. ALL INTERIOR SWITCHED EMERGENCY LIGHTING (E) SHALL HAVE BOTH NORMAL AND EMERGENCY POWER. DURING EMERGENCY CONDITION THE GENERATOR TRANSFER DEVICE SHALL DETECT NORMAL POWER VOLTAGE LOSS, TRANSFER TO EMERGENCY POWER AND RETURN TO FULL OUTPUT UPON LOSS OF CONTROL SIGNAL. DURING NORMAL NON-EMERGENCY CONDITION LIGHT FIXTURES SHALL BE SWITCHED WITH NORMAL LIGHTING AS SHOWN. SEE DETAIL 5/E-501. NORMAL POWER CIRCUIT AS SHOWN ON PLAN. EMERGENCY POWER CIRCUIT 'CGCH4'-2, UNLESS NOTED OTHERWISE.

E. LOCATION AND QUANTITY OF OCCUPANCY SENSORS AND LIGHT LEVEL SENSOR ARE APPROXIMATE. CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED PLACEMENT AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

F. CONTRACTOR SHALL VERIFY COMPATIBILITY OF ALL LIGHTING CONTROLS WITH THE LED DRIVERS TO BE CONTROLLED.

G. COORDINATE ALL TIME DELAY, AUTO DIM, PRESET DIMMING LEVELS, SENSOR SENSITIVITY AND OTHER CONFIGURATIONS WITH THE COR.

H. ALL EXTERIOR BUILDING MOUNTED LIGHTING IS CONTROLLED BY PHOTOCELL.

I. ALL MOUNTING HEIGHTS NOTED FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURE, UNLESS NOTED OTHERWISE.

J. SEE E-601 FOR THE LIGHTING FIXTURE SCHEDULE.

DEDUCT ALTERNATE NOTES

GC TO REFER TO DEDUCT ALTERNATE LIST ON SHEET E-001 AND COORDINATE ACCORDINGLY.

KEY NOTES:

1 TO BE INSTALLED IF DEDUCT ALTERNATE #8 IS SELECTED.

SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
Kevin Kublank
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR LIGHTING PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved:

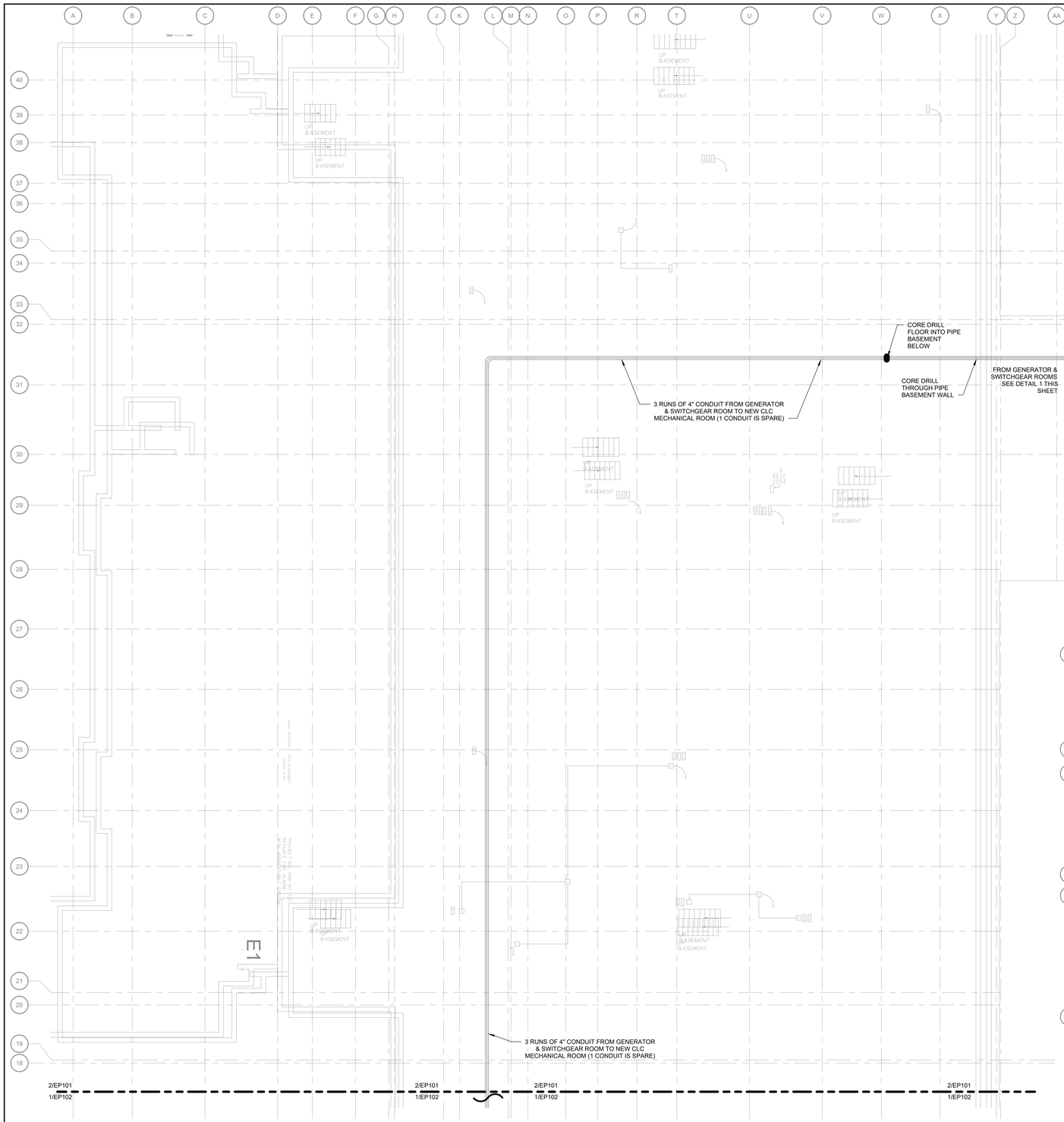
Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH

Drawing Number: EL101

Dwg 3 of 13

C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chansonCY4F9.rvt
6/18/2025 9:49:44 AM
VA FORM 08-6231

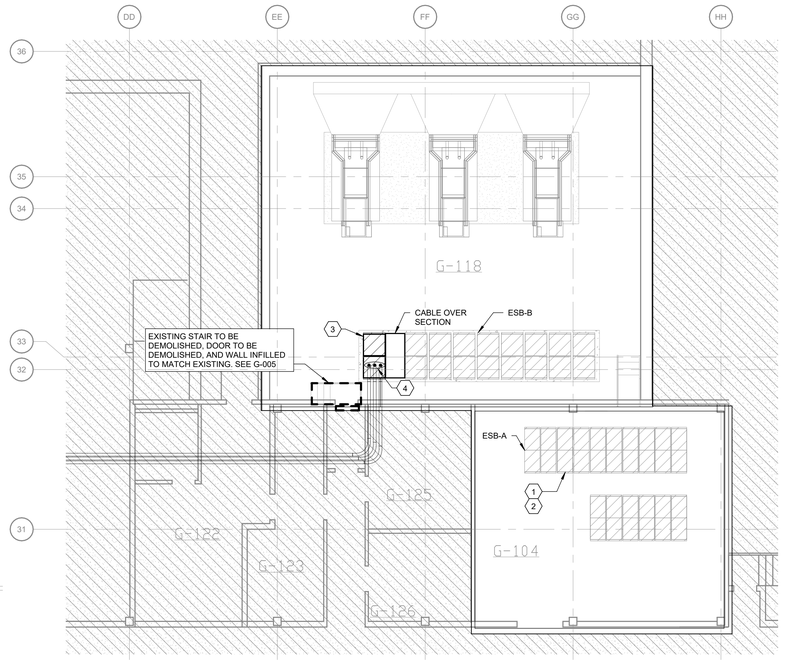
Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA



2 PIPE BASEMENT FLOOR OVERALL POWER PLAN

Scale: 1/16" = 1'-0"

0 8 16 32 NORTH



1 GENERATOR AND SWITCH GEAR ROOM POWER PLAN

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

0 4 8 16 NORTH

SHEET NOTES:

A. ALL EXISTING CONDITIONS, CONDUITS, AND DEVICES ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION. VERIFY EXISTING CONDITIONS.

B. DEVICES SHOWN WITH LIGHT, GRAY LINES ARE EXISTING TO REMAIN. DEVICES SHOWN WITH DARK, DASHED LINES ARE EXISTING TO BE DEMOLISHED. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES AND SYSTEMS SHOWN.

C. AT ALL TIMES, FIRE ALARM SERVICES ARE TO REMAIN ACTIVE OUTSIDE THE DESIGNATED AREA OF WORK.

D. COORDINATE ALL WORK BETWEEN TRADES AND DISCIPLINES.

KEY NOTES:

1 PROVIDE ONE 480/277V 600A PULL-OUT BREAKER IN AVAILABLE SPACE.
2 CIRCUIT TO NEW ATS IN ROOM K-106A USING (2) SETS OF (4) 500 KCMIL AND (1) 1 AWG EG IN IN EXISTING WIRE TROUGH FROM ESB-A TO NEW ATS.
3 PROVIDE 480/277V 600A AUTOMATIC TRANSFER SWITCH. CONNECT TO END OF EXISTING ASCO ATS LINE-UP BY TAPPING EXSITNG BUSS BARS FOR CONNECTION TO NEW ATS. EXTEND 6" EQUIPMENT PAD AS REQUIRED.
4 CUT AND REPAIR EXISTING CONCRETE FLOOR TO RUN CONDUIT INTO PIPE BASEMENT.

SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33282 KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GENERATOR AND SWITCHGEAR ROOM AND PIPE BASEMENT POWER PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC 1500 E. WOODROW WILSON AVENUE JACKSON, MS 39216

Approved

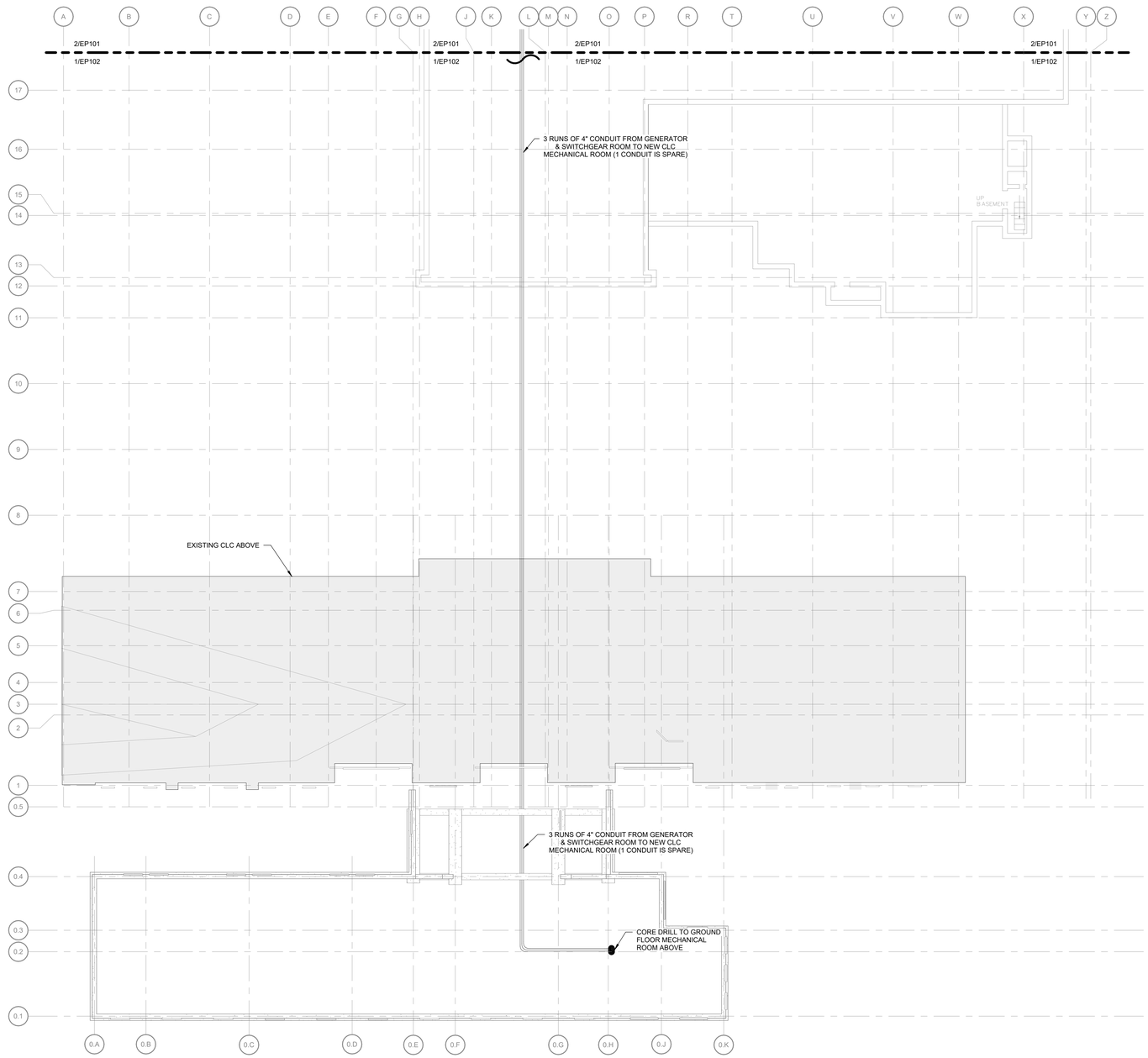
Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH

Drawing Number: EP101

Dwg 4 of 13

C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chanson\CY4F9.rvt
6/18/2025 9:49:49 AM
VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA



1 PIPE BASEMENT EASTERN FLOOR OVERALL POWER
Scale: 1/16" = 1'-0"

SHEET NOTES:

A. ALL EXISTING CONDITIONS, CONDUITS, AND DEVICES ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION. VERIFY EXISTING CONDITIONS.

B. DEVICES SHOWN WITH LIGHT, GRAY LINES ARE EXISTING TO REMAIN. DEVICES SHOWN WITH DARK, DASHED LINES ARE EXISTING TO BE DEMOLISHED. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES AND SYSTEMS SHOWN.

C. AT ALL TIMES, FIRE ALARM SERVICES ARE TO REMAIN ACTIVE OUTSIDE THE DESIGNATED AREA OF WORK.

D. COORDINATE ALL WORK BETWEEN TRADES AND DISCIPLINES.

SCOPE OF WORK LEGEND

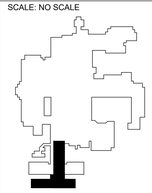
IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
Kevin T. Kublank
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PIPE BASEMENT EASTERN FLOOR OVERALL POWER PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

Date: JUNE 23, 2025

Checked: KTK

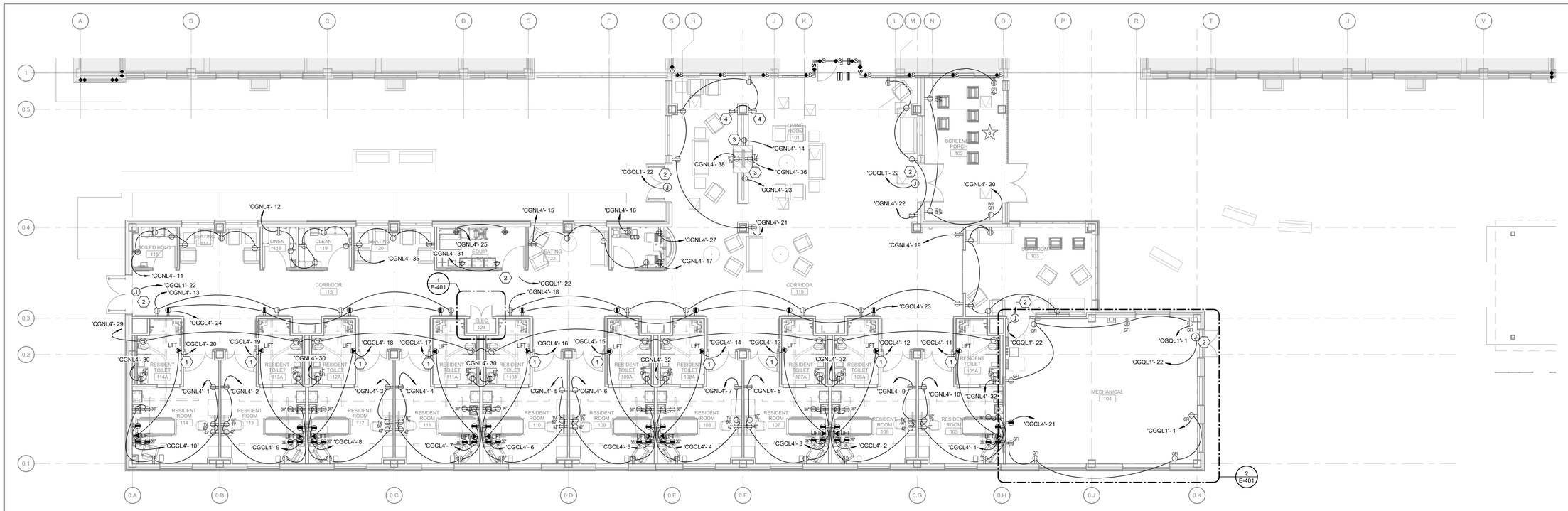
Drawn: CCH

Drawing Number: EP102

Dwg 5 of 13

6/18/2025 9:49:50 AM C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chansonCY14F9.rvt

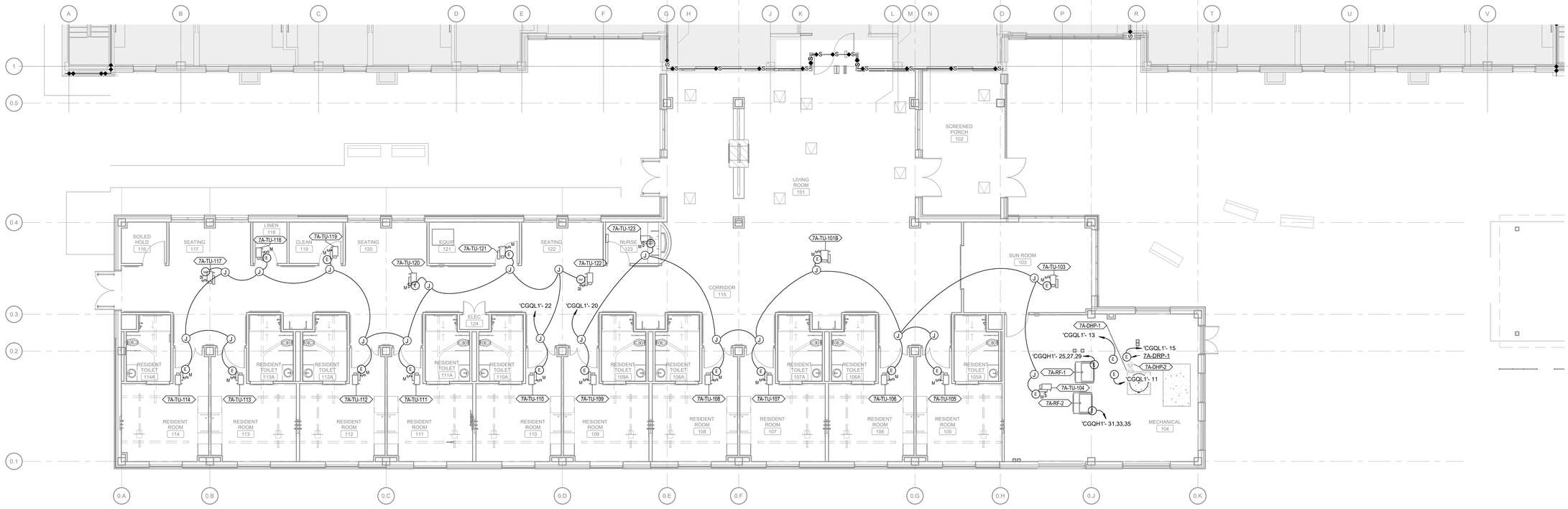
Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA



1 GROUND FLOOR POWER PLAN

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

0 4 8 16



2 GROUND FLOOR MECHANICAL POWER PLAN

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

0 4 8 16

SHEET NOTES:

A. ALL EXISTING CONDITIONS, CONDUITS, AND DEVICES ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION. VERIFY EXISTING CONDITIONS.

B. DEVICES SHOWN WITH LIGHT, GRAY LINES ARE EXISTING TO REMAIN. DEVICES SHOWN WITH DARK, DASHED LINES ARE EXISTING TO BE DEMOLISHED. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES AND SYSTEMS SHOWN.

C. AT ALL TIMES, FIRE ALARM SERVICES ARE TO REMAIN ACTIVE OUTSIDE THE DESIGNATED AREA OF WORK.

D. COORDINATE ALL WORK BETWEEN TRADES AND DISCIPLINES.

(#) KEY NOTES:

1 PROVIDE JUNCTION BOX AND DISCONNECT AS REQUIRED FOR OVERHEAD PATIENT LIFT. COORDINATE CLOSELY WITH LIFT INSTALLER PRIOR TO ROUGH-IN.
2 120V JUNCTION BOX FOR DOOR POWER.
3 120V RECEPTACLE FOR ELECTRIC FIREPLACE. CONCEAL RECEPTACLE AND ASSOCIATED CABLING/CONDUITS BEHIND FIREPLACE FACADE.
4 CONCEAL ASSOCIATED CABLING/CONDUITS BEHIND COLUMN FURRING. CONTRACTOR IS NOT PERMITTED TO ATTACH CONDUIT TO FINISHES OF COLUMNS.

SCOPE OF WORK LEGEND

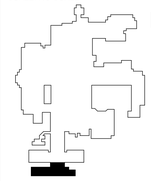
IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33282 KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060
APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420
© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: GROUND FLOOR POWER PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

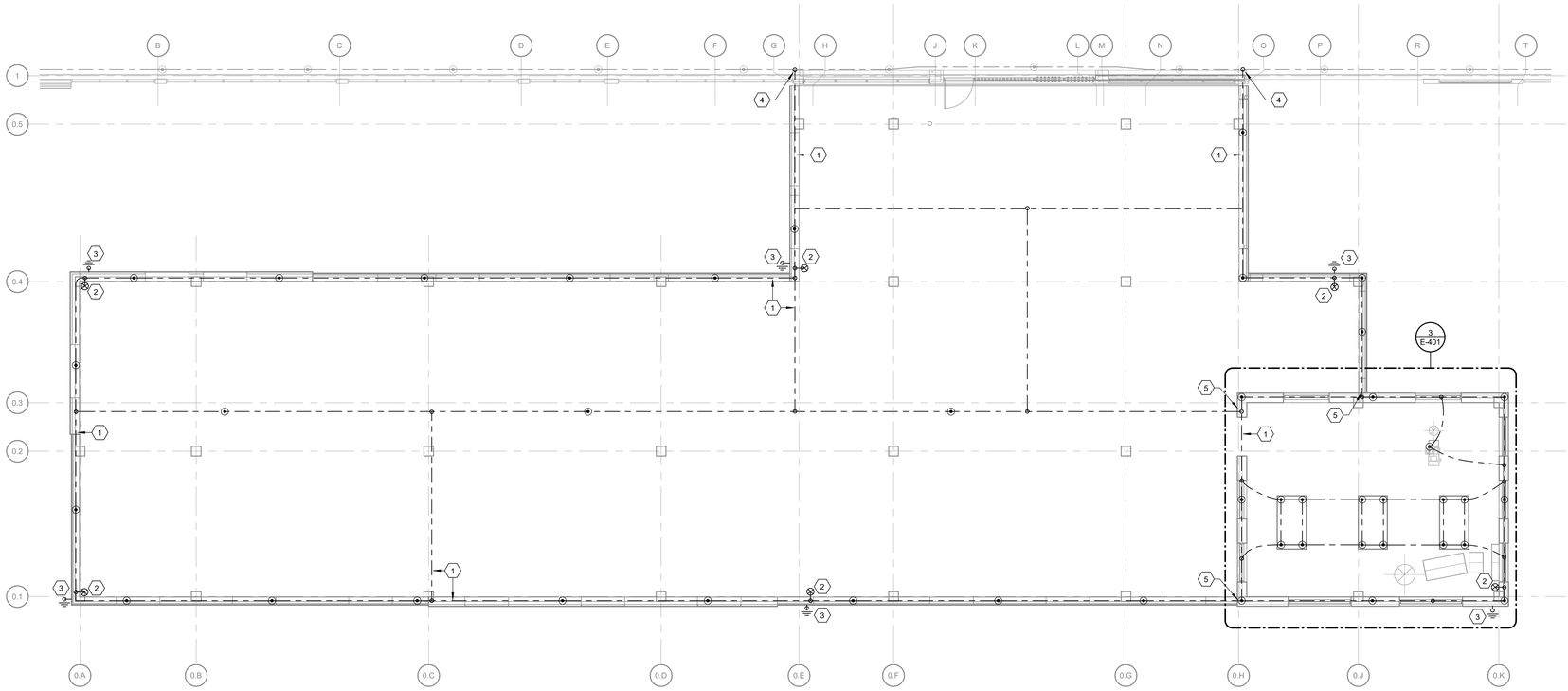
Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH

Drawing Number: EP103

Dwg 6 of 13

C:\Users\chenson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chensonCY4F9.rvt
6/18/2025 9:50:00 AM
VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA



1 ROOF LEVEL, LIGHTNING PROTECTION PLAN
Scale: 1/8" = 1'-0"

0 4 8 16 NORTH

SHEET NOTES:

A. LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED BY A CERTIFIED LIGHTNING PROTECTION INSTALLATION CONTRACTOR.

B. THE FINAL INSTALLATION SHALL MEET NFPA 780 AND UL96A REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS.

C. ACTUAL JOB SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERNATIONS OF AIR TERMINAL AND GROUND LOCATIONS. ANY ALTERATIONS SHALL BE APPROVED BY THE COR PRIOR TO THEIR EXECUTION.

D. AIR TERMINALS SHALL BE PLACED AROUND THE ROOF PERIMETER OR RIDGE AT 20'-0" MAXIMUM INTERVALS FOR 10" TO 24" AIR TERMINALS AND EXTEND A MINIMUM OF 10" ABOVE THE OBJECT OR AREA IT IS TO PROTECT.

E. AIR TERMINALS SHALL BE PLACED WITHIN 24" FROM THE OUTSIDE EDGES OF THE OBJECT TO BE PROTECTED.

F. MID-ROOF AIR TERMINALS ON FLAT OR GENTLY SLOPING ROOFS SHALL BE INSTALLED AT MAXIMUM 50'-0" INTERVALS.

G. ALL ROOF PROJECTIONS AND/OR OBJECTS THAT ARE SUBJECT TO A DIRECT LIGHTNING STRIKE SHALL BE PROVIDED WITH AIR TERMINALS UNLESS THEY ARE LOCATED WITHIN A ZONE OF PROTECTION.

H. METAL BODIES SITUATED WITHIN 6'-0" OF A LIGHTNING PROTECTION CONDUCTOR SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM. HAND/GUARDRAILS SHALL BE BONDED EVERY 50 LINEAR FEET AND AT MINIMUM THE BEGINNING AND END OF THE RAILING.

I. ELECTRICAL CONTRACTOR SHALL FOLLOW SITE LOCK-OUT/TAG-OUT GUIDELINES TO DEENERGIZE EQUIPMENT AS REQUIRED.

(#) KEY NOTES:

1 CLASS 1 LIGHTNING CONDUCTORS FASTENED USING ADHESIVE TYPE FASTENERS EVERY 3' OC MAXIMUM.
2 PROVIDE DOWN CONDUCTOR THRU-ROOF PENETRATION AND BOND DOWN CONDUCTOR TO BUILDING STEEL.
3 BOND DOWN CONDUCTOR TO BUILDING STEEL AND CONNECT TO NEW GROUND ROD. IF THE DOWN CONDUCTOR IS EXPOSED ABOVE GROUND, IT IS TO BE PROTECTED TO A MINIMUM HEIGHT OF 6' FROM GRADE WITH RIGID SCHEDULE 80 PVC ATTACHED TO BUILDING. PAINT PVC IN A COMPLIMENTARY COLOR TO THE BUILDING FACADE. PROVIDE PAINT SAMPLES TO COR TO VERIFY FINAL COLOR DECISION.
4 CONNECT NEW LIGHTNING PROTECTION SYSTEM TO EXISTING LIGHTNING PROTECTION SYSTEM ON ADJACENT ROOF.
5 BOND LIGHTNING CONDUCTOR ON LOWER ROOF SECTION TO CONDUCTOR OF UPPER ROOF SECTION.

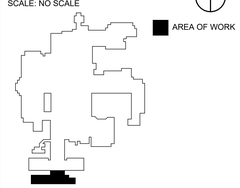
SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE



FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

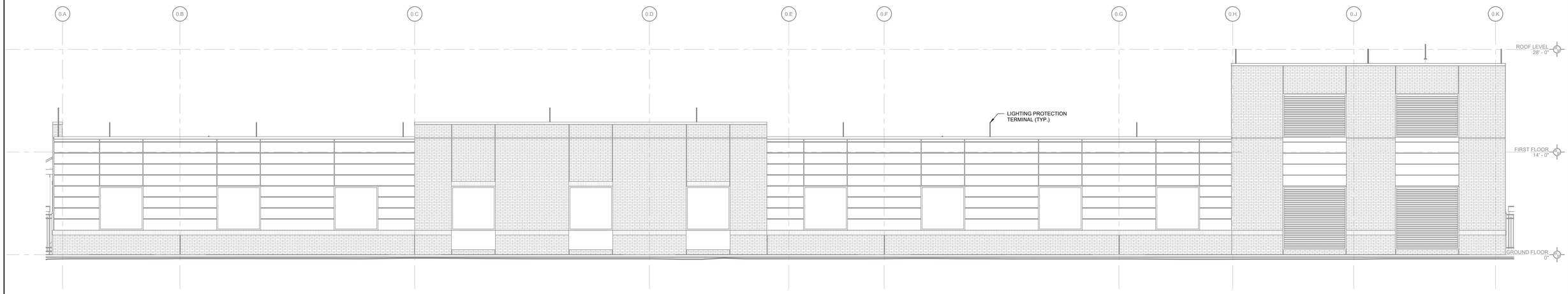
APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420
© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ROOF LEVEL, LIGHTNING PROTECTION PLAN
Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
Approved
Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Drawing Number: EX101
Dwg 7 of 13

C:\Users\chenson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chensonCY4F9.rvt
6/19/2025 9:50:02 AM
VA FORM 08-6231

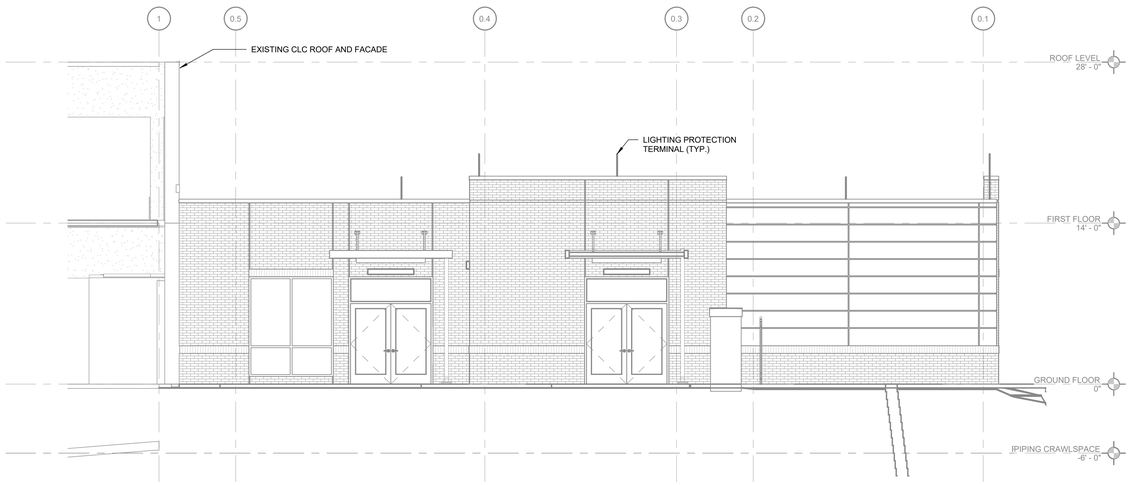
Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA



1 EAST LIGHTNING PROTECTION ELEVATION

Scale: 3/16" = 1'-0"

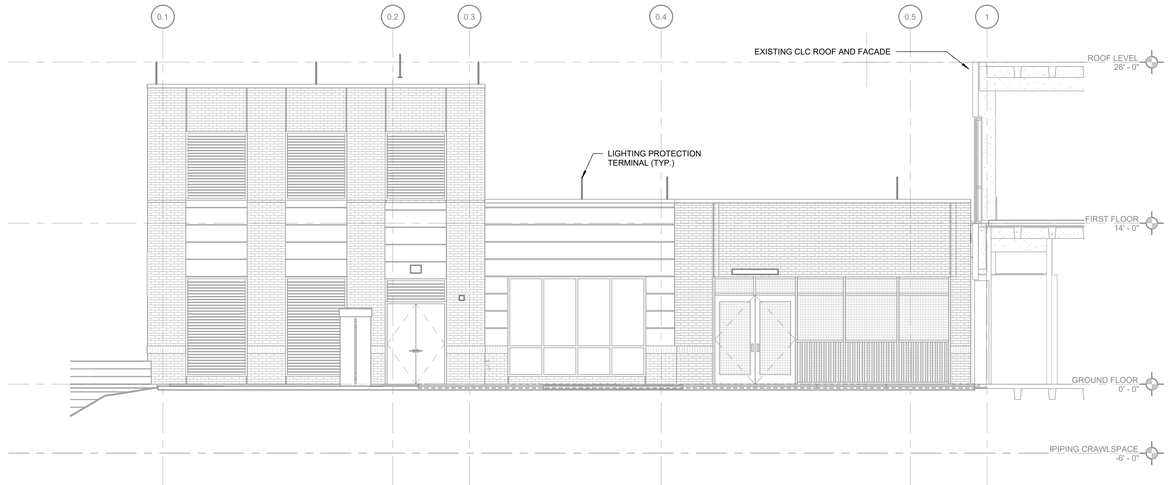
0 2 4 8



3 SOUTH LIGHTNING PROTECTION ELEVATION

Scale: 3/16" = 1'-0"

0 2 4 8



2 NORTH LIGHTNING PROTECTION ELEVATION

Scale: 3/16" = 1'-0"

0 2 4 8

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: EAST, NORTH, AND SOUTH LIGHTNING PROTECTION ELEVATIONS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved:

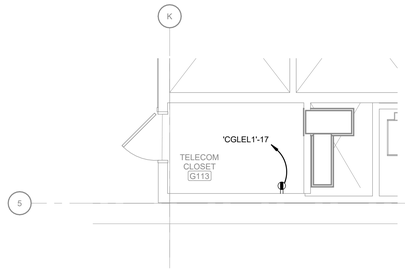
Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH

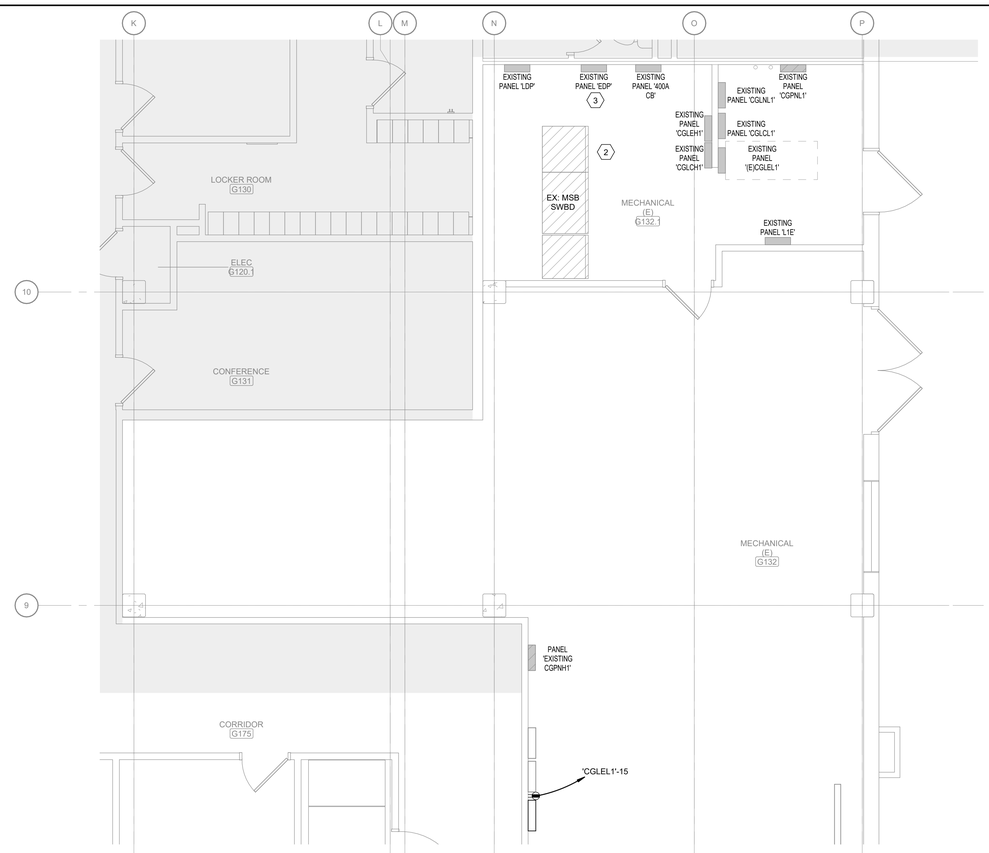
Drawing Number: EX102

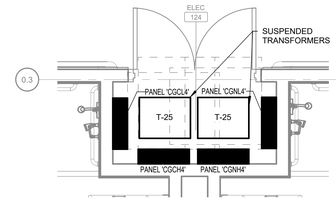
Dwg 8 of 13

C:\Users\kchanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chansonCY4Fb.rvt
6/18/2025 9:50:09 AM
VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA

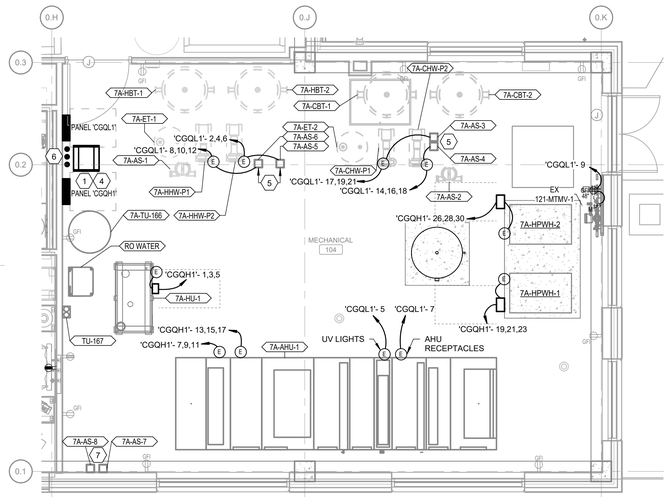






1 ELECTRICAL CLOSET 124 POWER PLAN

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



6 GROUND FLOOR TELECOM CLOSET POWER PLAN

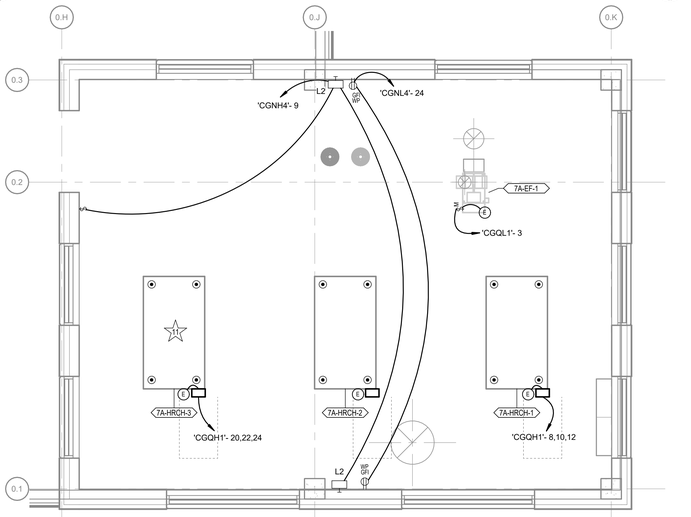
Scale: 1/4" = 1'-0"

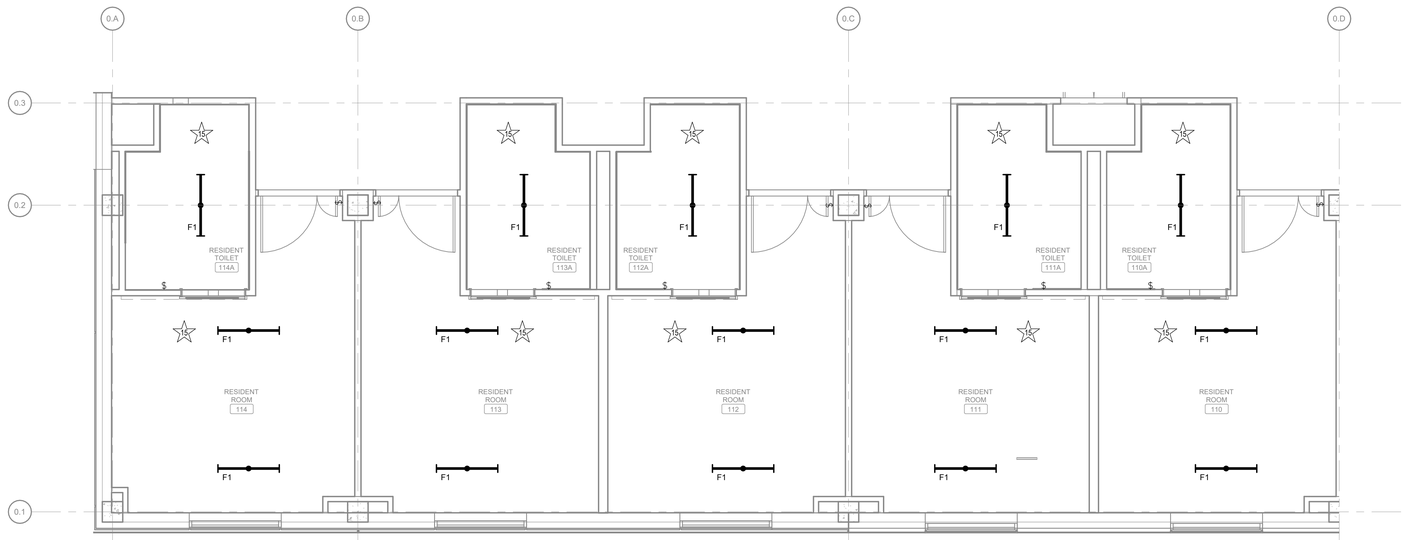
4 GROUND FLOOR CLC FEEDER POWER PLAN

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

2 GROUND FLOOR MECHANICAL EQUIPMENT POWER PLAN

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





5 GROUND FLOOR LIGHTING PLAN - DEDUCT ALTERNATE

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

3 ROOF LEVEL, POWER AND LIGHTING PLAN

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

SHEET NOTES:

A. ALL EXISTING CONDITIONS, CONDUITS, AND DEVICES ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF SURVEY AND VISUAL INSPECTION. VERIFY EXISTING CONDITIONS.

B. DEVICES SHOWN WITH LIGHT, GRAY LINES ARE EXISTING TO REMAIN. DEVICES SHOWN WITH DARK, DASHED LINES ARE EXISTING TO BE DEMOLISHED. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES AND SYSTEMS SHOWN.

C. AT ALL TIMES, FIRE ALARM SERVICES ARE TO REMAIN ACTIVE OUTSIDE THE DESIGNATED AREA OF WORK.

D. COORDINATE ALL WORK BETWEEN TRADES AND DISCIPLINES.

DEDUCT ALTERNATE NOTES

GC TO REFER TO DEDUCT ALTERNATE LIST ON SHEET E-001 AND COORDINATE ACCORDINGLY.

KEY NOTES:

1 NEW 600A ATS-14 TO PROVIDE POWER TO NEW 480/277V PANEL 'CGQH1' LOCATED IN MECHANICAL ROOM 104.

2 EXISTING SWITCHBOARD MSB TO PROVIDE POWER TO NEW PANEL 'CGNH4' LOCATED IN ELECTRICAL ROOM 124.

3 EXISTING 400A 480/277V CRITICAL POWER PANEL 'EDP' TO PROVIDE POWER TO NEW 480/277V PANEL 'CGCH4' LOCATED IN ELECTRICAL ROOM 124.

4 PROVIDE ONE 600A MCB 480/277V SURFACE MOUNTED PANELBOARD FOR MECHANICAL EQUIPMENT POWER. SEE KEYNOTE 1 THIS SHEET AND SINGLE LINE POWER DIAGRAM ON E-601 FOR CIRCUITING INFORMATION.

5 PROVIDE POWER CONNECTION TO VFD FOR EACH PUMP.

6 PROVIDE (3) 4" CORE DRILLS FROM PIPE CRAWLSPACE BELOW TO BOTTOM OF PANEL 'CGQH1. CONDUITS ARE SHOWN OFFSET FOR GRAPHICAL PURPOSES ONLY. MAINTAIN FIRE RATINGS IF APPLICABLE.

7 PROVIDE POWER CONNECTION TO VFD FOR EACH SUPPLY FAN IN 7A-AHU-1.

SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE

AREA OF WORK

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33282 KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL ENLARGEMENTS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

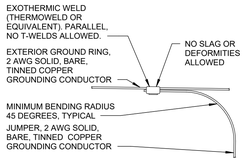
Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH

Drawing Number: E-401

Dwg 9 of 13

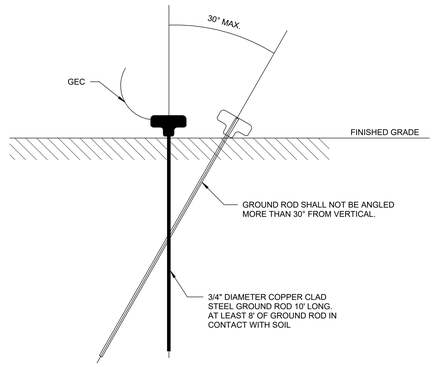
C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chanson@CY4PB.rvt
6/18/2025 9:50:15 AM
VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA



10 EXOTHERMIC WELD - WIRE TO WIRE

Scale: No Scale

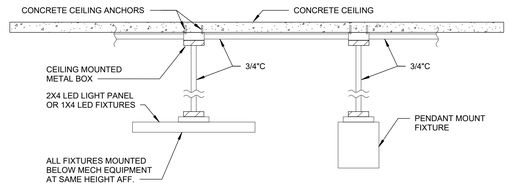


NOTE:

1. THIS DETAIL IS TO SHOW THE ALLOWABLE ANGLE OF THE GROUND ROD GOING INTO THE GROUND. THE NUMBER OF GROUND RODS REQUIRED SHALL BE DETERMINED ACCORDING TO THE LATEST EDITION OF THE NEC.

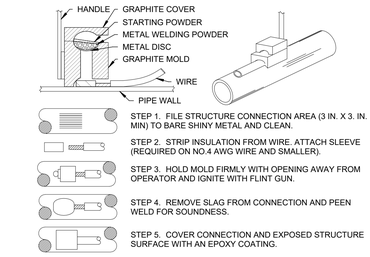
7 GROUND ROD DETAIL

Scale: No Scale



4 PENDENT MOUNTED FIXTURES

Scale: No Scale



GENERAL NOTES:

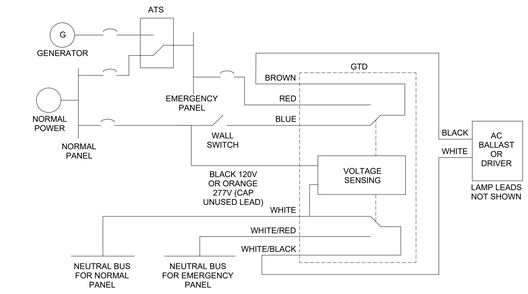
1. ALL CABLES AND WELDS SHALL BE MINIMUM 3 INCHES APART.
2. STANDARD WELD CARTRIDGES SHALL BE USED FOR STEEL SURFACES. FOR DIP USE XF-19 WELD CARTRIDGES.

1 EXOTHERMIC WELD - WIRE TO PIPE

Scale: No Scale

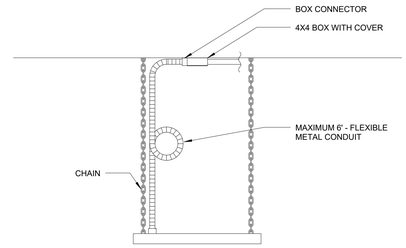
8 LIGHTNING PROTECTION MECHANICAL BOND

Scale: No Scale



5 EMERGENCY LIGHTING CONTROL (UL924 GENERATOR TRANSFER DEVICE)

Scale: No Scale



2 CHAIN HUNG LIGHT FIXTURE

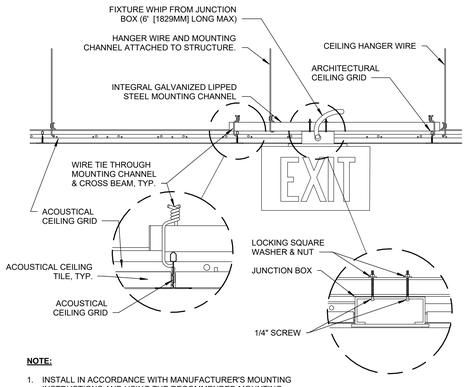
Scale: No Scale

NOTES:

1. SEE SHEET E-001 FOR LEGEND.
2. ALL SPLICES BELOW GRADE SHALL BE THE EXOTHERMIC WELD TYPE.
3. AIR TERMINALS SHALL EXTEND NO LESS THAN 10 INCHES ABOVE THE ROOF.
4. ALL METAL EQUIPMENT ON THE ROOF SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM.
5. THRU ROOF FLASHING SHALL BE COPPER WITH 8 INCH ROUND BASE AND VERTICAL TUBE WITH NEOPRENE SEAL. FLASHING SHALL BE THE PRODUCT OF THE MANUFACTURER OF THE LIGHTNING PROTECTION SYSTEM. A MEMBRANE FLASHING SHALL BE PROVIDED OVER THE THRU ROOF FLASHING.

9 LIGHTNING PROTECTION AIR TERMINAL

Scale: No Scale

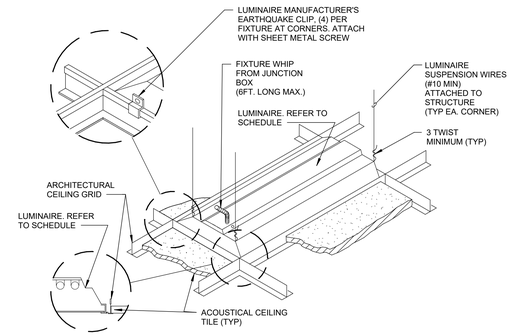


NOTE:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

6 EXIT SIGN MOUNTING - LAY-IN CEILING

Scale: No Scale



3 LUMINAIRE MOUNTING - LAY-IN CEILING

Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
Kevin Kublank
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

Approved:

Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Drawing Number: E-501

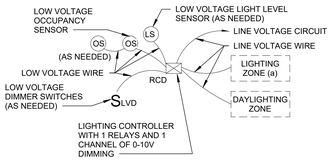
Dwg 10 of 13

C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chansonCY4F9.rvt

6/18/2025 9:50:17 AM

VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA

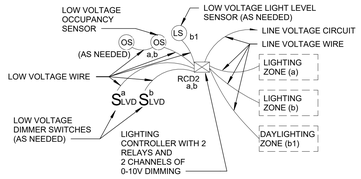


SEQUENCE OF OPERATION:

1. OCCUPANCY SENSOR CONTROLS ALL LUMINARIES WITHIN ROOM, UNLESS NOTED OTHERWISE.
2. LIGHT LEVEL SENSOR CONTROLS DIMMING OF LIGHTING ZONE CLOSEST TO WINDOWS, UNLESS NOTED OTHERWISE.
3. LIGHTING CONTROL DEVICE MUST COMPLY WITH NEC 700.23

9 SINGLE RELAY ROOM CONTROLLER DIAGRAM

Scale: No Scale

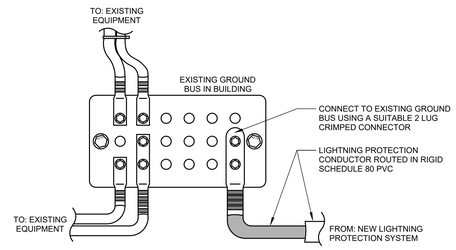


SEQUENCE OF OPERATION:

1. OCCUPANCY SENSOR CONTROLS ALL LUMINARIES WITHIN ROOM, UNLESS NOTED OTHERWISE.
2. LIGHT LEVEL SENSOR CONTROLS DIMMING OF LIGHTING ZONE CLOSEST TO WINDOWS, UNLESS NOTED OTHERWISE
3. LIGHTING CONTROL DEVICE MUST COMPLY WITH NEC 700.23

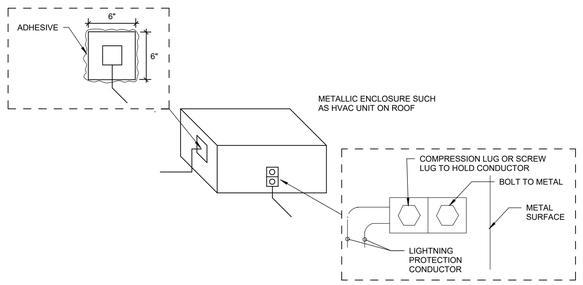
10 DUAL RELAY ROOM CONTROLLER DIAGRAM

Scale: No Scale



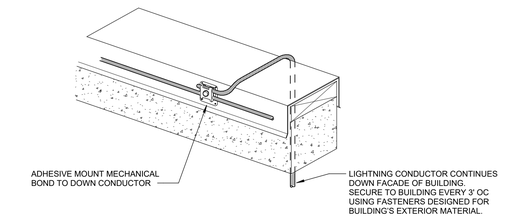
5 LPS BONDING TO BUILDING GROUNDING BUS

Scale: No Scale



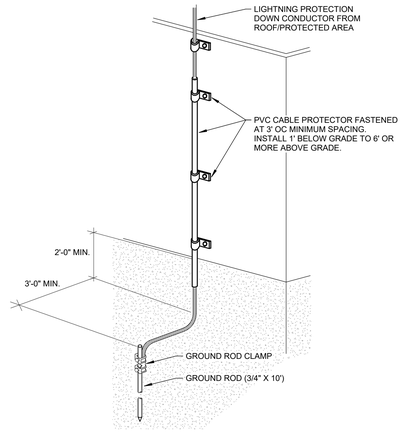
6 METALLIC ENCLOSURE TERMINATIONS

Scale: No Scale



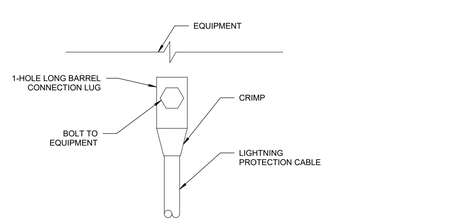
1 TYPICAL LOOP OVER TO DOWN CONDUCTOR

Scale: No Scale



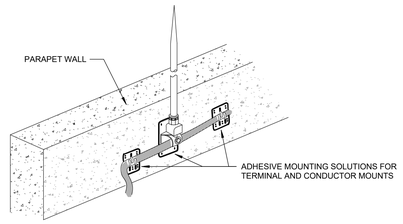
2 TYPICAL DOWNLEAD AND GROUND ROD

Scale: No Scale



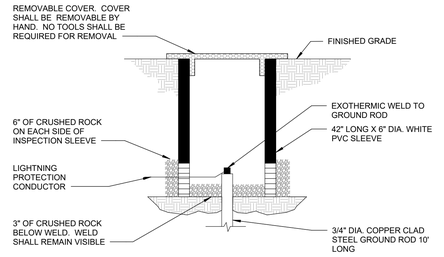
7 LIGHTNING PROTECTION MECHANICAL CONNECTION TO EQUIPMENT

Scale: No Scale



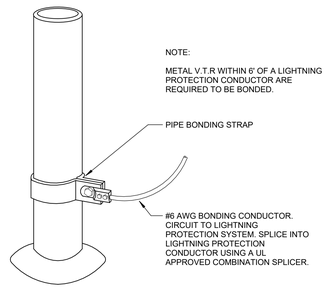
3 LIGHTNING PROTECTION AIR TERMINAL

Scale: No Scale



8 GROUND TEST WELL

Scale: No Scale



4 TYPICAL VENT-THRU-ROOF BOND

Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
6/19/2025

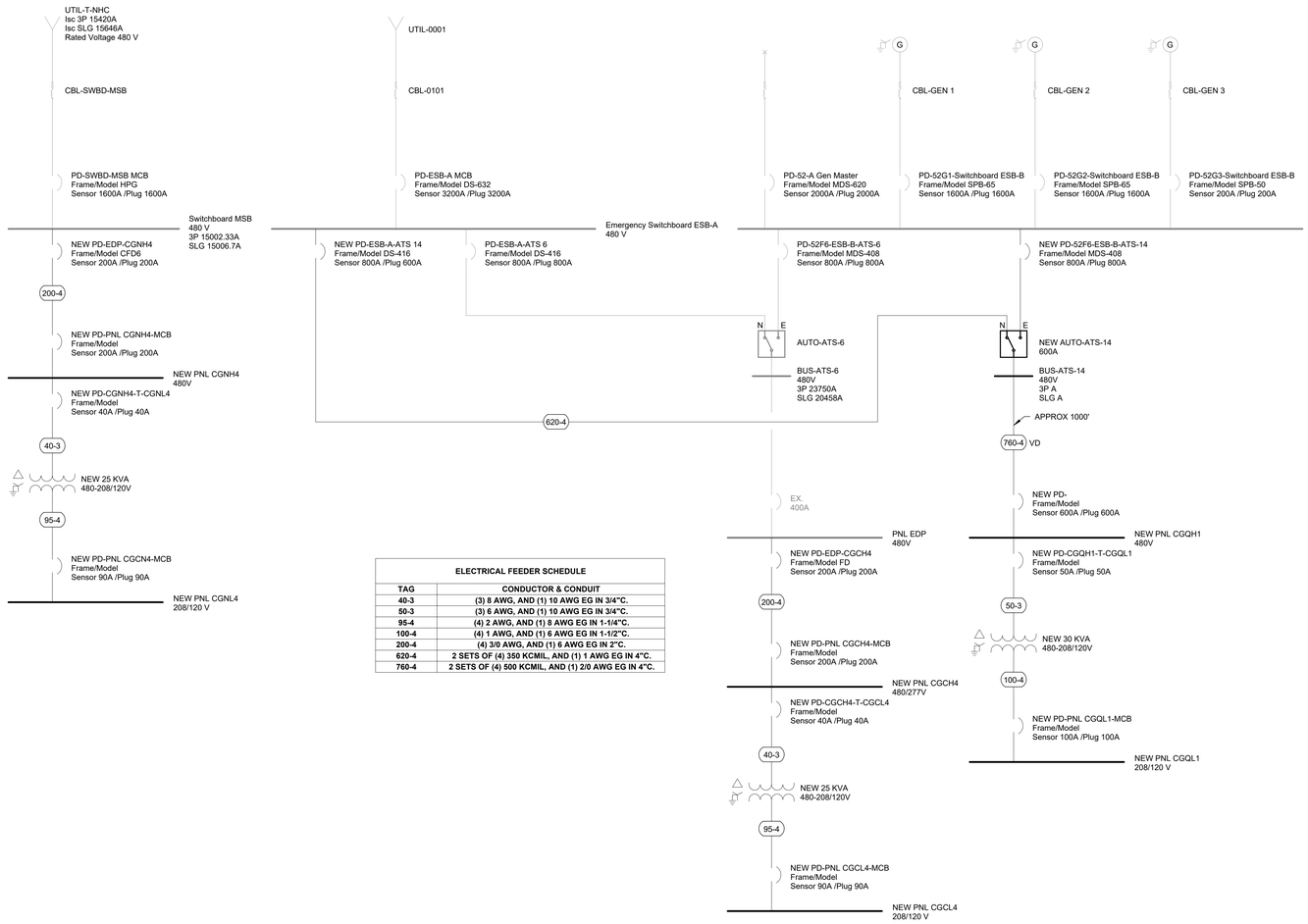
PROJECT MANAGER
ACG Project Number 23-060
APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420
© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Approved:
Date: JUNE 23, 2025
Checked: KTK
Drawn: CCH
Drawing Number: E-502
Dwg 11 of 13

C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chansonCY4F9.rvt
6/18/2025 9:50:18 AM
VA FORM 08-6231

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA



ELECTRICAL FEEDER SCHEDULE

TAG	CONDUCTOR & CONDUIT
40-3	(3) 8 AWG, AND (1) 10 AWG EG IN 3/4"C.
50-3	(3) 6 AWG, AND (1) 10 AWG EG IN 3/4"C.
95-4	(4) 2 AWG, AND (1) 8 AWG EG IN 1-1/4"C.
100-4	(4) 1 AWG, AND (1) 6 AWG EG IN 1-1/2"C.
200-4	(4) 3/0 AWG, AND (1) 6 AWG EG IN 2"C.
620-4	2 SETS OF (4) 350 KCMIL, AND (1) 1 AWG EG IN 4"C.
760-4	2 SETS OF (4) 500 KCMIL, AND (1) 2/0 AWG EG IN 4"C.

1 POWER SINGLE LINE DIAGRAM

Scale: No Scale

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

A. MANUFACTURER AND CATALOG NUMBERS SHOWN ARE FOR BASIS OF DESIGN, DESCRIPTIVE AND QUALITY STANDARDS ONLY, NOT TO BE USED FOR ORDERING WITHOUT VERIFICATION AND APPROVAL. CONTRACTOR TO PROVIDE PRODUCT OR EQUAL FOR APPROVAL BY OWNER, ARCHITECT AND ENGINEER. ENGINEER SHALL NOT BE RESPONSIBLE FOR MISMATCHED OR INACCURATE PART NUMBERS.

B. VERIFY ALL LIGHT FIXTURE MOUNTING TYPES AND COLORS WITH THE ARCHITECT.

C. FOR ALL LED FIXTURES, THE FIXTURE SHALL BE CAPABLE OF SELF-RESETTING TO THE SWITCHED/CONTROLLED STATE DURING ANY FLUCTUATION IN POWER SUPPLY WHERE AUTOMATIC PROTECTIVE MEASURES DISABLE THE LED LAMPS. PROVIDE A LETTER OR STATEMENT FROM THE MANUFACTURER, OR OTHER ACCEPTABLE PROOF, THAT ALL LED FIXTURES, WITH OR WITHOUT BROWNOUT PROTECTION SHALL RETURN TO THE SWITCHED/CONTROLLED STATE AUTOMATICALLY. PROVIDE STATEMENT WITH THE FIXTURE SUBMITTALS.

D. LIGHTING CONTROLS, INCLUDING CONTROL SCHEMATICS, DEVICES, SWITCHES, SENSORS AND GRAPHIC DISPLAYS/CONTROLLERS, MUST BE SUBMITTED WITH THE LIGHT FIXTURE SHOP DRAWINGS, FOR A COMPLETE REVIEW.

E. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE COMPATIBILITY OF THE LIGHTING CONTROLS WITH THE APPROVED LIGHT FIXTURE PACKAGE.

TYPE	DESCRIPTION	MOUNTING	LAMP	DRIVER	VOLTAGE	WATTS	MANUFACTURER	MODEL NUMBER
A	2' X 4' LENSED TROFFER;	RECESSED GRID	LED; 4800 LUMENS; 80 CRI; 3500K	0-10V DIMMABLE TO 5% DRIVER		34 W	METALUX	24EN-LD1-40-UNV-L835-CD1
A1	2' X 4' FLAT PANEL TROFFER; WHITE FROSTED LENS; ULTRA THIN; FIELD ADJUSTABLE LUMENS AND CCT;	RECESSED GRID	LED; 6250 LUMENS; 80 CRI; 3500K	0-10V DIMMABLE TO 10% DRIVER	120/277V	56 W	COOPER METALUX	24FPSL2SCT3
B1	7'-7 3/4" STRAIGHT RUN CONTINUOUS INDIRECT COVE SYSTEM; SATIN CLEAR DIFFUSER; 4" IN-FILL PANEL	RECESSED GRID	LED; 1084 LUMENS PER FOOT; 80 CRI; 3500K	0-10V DIMMABLE TO 1% DRIVER	120/277V	48 W	INTER LUX	WG-VBC-RBT-S-7' 7.75"-P2-935-E1-P4-SDC-W
B1E	7'-7 3/4" STRAIGHT RUN CONTINUOUS INDIRECT COVE SYSTEM; SATIN CLEAR DIFFUSER; 4" IN-FILL PANEL; REMOTE CONSTANT CURRENT EMERGENCY DRIVER	RECESSED GRID	LED; 1084 LUMENS PER FOOT; 80 CRI; 3500K	0-10V DIMMABLE TO 1% DRIVER	120/277V	48 W	INTER LUX	WG-VBC-RBT-S-7' 7.75"-P2-935-E1-P4-SDC-W-EM
B2	15' 2" STRAIGHT RUN CONTINUOUS INDIRECT COVE SYSTEM; SATIN CLEAR DIFFUSER; 4" IN-FILL PANEL	RECESSED GRID	LED; 1084 LUMENS PER FOOT; 80 CRI; 3500K	0-10V DIMMABLE TO 1% DRIVER	120/277V	91 W	INTER LUX	WG-VBC-RBT-S-15' 2"-P2-935-E1-P4-SDC-W
B2E	15' 2" STRAIGHT RUN CONTINUOUS INDIRECT COVE SYSTEM; SATIN CLEAR DIFFUSER; 4" IN-FILL PANEL; REMOTE CONSTANT CURRENT EMERGENCY DRIVER	RECESSED GRID	LED; 1084 LUMENS PER FOOT; 80 CRI; 3500K	0-10V DIMMABLE TO 1% DRIVER	120/277V	91 W	INTER LUX	WG-VBC-RBT-S-15' 2"-P2-935-E1-P4-SDC-W-EM
B3	21' 9" X 24' 9" X 21' 9" X 24' 9" 4-SIDED RUN CONTINUOUS INDIRECT COVE SYSTEM; SATIN CLEAR DIFFUSER; 4" IN-FILL PANEL	RECESSED GRID	LED; 1667 LUMENS PER FOOT; 80 CRI; 3500K	0-10V DIMMABLE TO 1% DRIVER	120/277V	920 W	INTER LUX	WG-VBC-RBT-P-21' 9" X 24' 9" X 21' 9" X 24' 9"-P3-935-E1-P4-SDC-W
B4	6' 6" X 24' 9" X 6' 6" X 24' 9" 4-SIDED RUN CONTINUOUS INDIRECT COVE SYSTEM; SATIN CLEAR DIFFUSER; 4" IN-FILL PANEL	RECESSED GRID	LED; 1084 LUMENS PER FOOT; 80 CRI; 3500K	0-10V DIMMABLE TO 1% DRIVER	120/277V	378 W	INTER LUX	WG-VBC-RBT-P-6' 6" X 24' 9" X 6' 6" X 24' 9"-P2-935-E1-P4-SDC-W
D1	6" DIAMETER DOWNLIGHT; WHITE TRIM RING; ULTRA THIN 0.5" HIGH WITH CLIPS; IC RATED; WET LOCATION	RECESSED GRID	LED; 1000 LUMENS; 4000K; 80 CRI	0-10V DIMMABLE TO 10% LED DRIVER	120/277V	13 W	NDR LIGHTING	RZR-4000K-600-WH
D1E	6" DIAMETER DOWNLIGHT; WHITE TRIM RING; ULTRA THIN 0.5" HIGH WITH CLIPS; IC RATED; WET LOCATION; UL924 EMERGENCY GENERATOR TRANSFER DEVICE	RECESSED GRID	LED; 1000 LUMENS; 4000K; 80 CRI	0-10V DIMMABLE TO 10% LED DRIVER	120/277V	13 W	NDR LIGHTING	RZR-4000K-600-WH
E1	SURFACE MOUNTED SINGLE FACED EDGE-LIT EXIT SIGN WITH 90 MIN. NI-CAD EMERGENCY BATTERY, RED LETTERS, AND CHEVRON ARROWS AS SHOWN ON PLANS	UNIVERSAL	LED RED	---	120/277V	5 W	SURE LITES	APXEL71R
E2	CEILING MOUNTED DOUBLE FACED EDGE-LIT EXIT SIGN WITH 90 MIN. NI-CAD EMERGENCY BATTERY, RED LETTERS, AND CHEVRON ARROWS AS SHOWN ON PLANS	UNIVERSAL	LED RED	---	120/277V	5 W	SURE LITES	APXEL72R
F1	4' LINEAR LED STRIPLIGHT WITH FROSTED LENS	CHAIN SUSPEND	LED; 6313 LUMENS; 80 CRI; 4000K	ELECTRONIC LED DRIVER	120/277V	42 W	H.E. WILLIAMS	75R 4 L65 835 DRV UNV
G1	24" ROUND DECORATIVE DRUM PENDANT; CREAM FABRIC DIFFUSER, SILVER METALLIC FINISH; ETCHED BOTTOM DIFFUSER; MOUNTED AT 8'-0" AFF TO BOTTOM	PENDANT	LED; 6350 LUMENS; 80 CRI; 3500K	0-10V DIMMABLE TO 1% LED DRIVER	120/277V	105 W	OCL ARCHITECTURAL LIGHTING	FB1 P1AA 24 BC/GW SMP LED2 35K UNV 17 DM1 EPD
H1	DECORATIVE PENDANT; BELL SHAPE; SATIN BRASS FINISH; WOVEN ROUND TEXTURE; DISK CANOPY SATIN BRASS FINISH; WHITE CABLE; MOUNTED AT 6'-6" AFF TO BOTTOM	PENDANT	E26 SCREW-IN LED; 800 LUMENS; 3000K; 90 CRI	DIMMABLE LED DRIVER	120V	15 W	LIGHTOLIER	3DP SS BL BSST WR S DISK BSST WH00 E26 FR BAA
J1E	HORIZONTAL RECTANGLE LED STEP LIGHT MOUNTED AT 14" AFF TO CENTER OF FIXTURE; WHITE ANTIMICROBIAL FINISH; ADA COMPLIANT; WET LOCATION IP64 RATED; INTEGRAL PHOTO CELL CONTROL OPTION	SEMI-RECESSED WALL	LED; AMBER	ELECTRONIC LED DRIVER	120/277V	4 W	KENALL	MCSL-HR-MW-2LAMB-DV-BPC-IP64-DBX
L1E	EXTERIOR WALL PACK; DARK BRONZE FINISH; WITH INTEGRAL PHOTOCELL AND VANDAL GUARD; MOUNTED AT 10'-0" AFF TO BOTTOM UNLESS NOTED OTHERWISE	SURFACE WALL	LED; 1,500 LUMENS; 70 CRI; 4000K	ELECTRONIC LED DRIVER	120/277V	11 W	LITHONIA	WPX1 LED P1 40K MVOLT PE DDBXD
L2	EXTERIOR WALL PACK; DARK BRONZE FINISH; VANDAL GUARD; MOUNTED AT 10'-0" AFF UNLESS NOTED OTHERWISE	SURFACE WALL	LED; 2,900 LUMENS; 70 CRI; 4000K	ELECTRONIC LED DRIVER	120/277V	24 W	LITHONIA	WPX1 LED P2 40K MVOLT DDBXD
M1E	EXTERIOR 4' X 4'-0" LINEAR DIRECT; FLUSH FROSTED WHITE LENS; WET LOCATION; BRONZE FINISH	SURFACE WALL	LED; 1779 LUMENS; 80 CRI; 4000K	0-10V DIMMABLE LED DRIVER	277V	18 W	FINELITE	HP4 4WL WM D B 840 F 96 277 SC FC-10% MB FE
N1	EXTERIOR 42" X 8" CYLINDRICAL, THREE LEGGED, OPEN CAGE, BOLLARD; DIFFUED ACRYLIC LENS; TYPE 3 DISTRIBUTION; INTEGRAL PHOTOCELL; BRONZE FINISH	GROUND	LED; 2560 LUMENS; 70 CRI; 4000K	ELECTRONIC LED DRIVER	<varies>	32 W	STERNBERG	RT4 42IN 26L 40 T3 MDL03 SV2 PCD UB
N2	EXTERIOR 42" X 8" CYLINDRICAL, THREE LEGGED, OPEN CAGE, BOLLARD; DIFFUED ACRYLIC LENS; TYPE 5 DISTRIBUTION; INTEGRAL PHOTOCELL; BRONZE FINISH	GROUND	LED; 2560 LUMENS; 70 CRI; 4000K	ELECTRONIC LED DRIVER	120/277V	32 W	STERNBERG	RT4 42IN 26L 40 T5 MDL03 SV2 PCD UB
P1	11" ROUND HIGH BAY; IP65 RATED; WHITE FINISH; MOUNTED AT 10'-6" AFF TO BOTTOM	PENDANT STEM	LED; 13,436 LUMENS; 80 CRI; 4000K	0-10V DIMMABLE LED DRIVER	120/277V	99 W	METALUX	UHB-12-UNV-L840-CD-U
P1E	11" ROUND HIGH BAY; IP65 RATED; WHITE FINISH; MOUNTED AT 10'-6" AFF TO BOTTOM	PENDANT STEM	LED; 13,436 LUMENS; 80 CRI; 4000K	0-10V DIMMABLE LED DRIVER	120/277V	99 W	METALUX	UHB-12-UNV-L840-CD-U
T1	EXTERIOR ARCHITECTURAL ADJUSTABLE FLOOD BLACK FINISH	GROUND	LED; 1500 LUMENS; 80 CRI; 4000K	0-10V DIMMABLE LED DRIVER	120/277V	21 W	HYDREL	SAF1 LED P2 80CRI 40K MVOLT 30DEG CWL KM C1 BL
V1	22" X 5" X 3" DEEP BATHROOM VANITY; STEEL BODY WITH SILKSCREEN TEMPERED GLASS DIFFUSER; BLACK FINISH	SURFACE WALL	LED; 2,102 LUMENS; 90 CRI; 3000K	ELECTRONIC LED DRIVER	120V	32 W	WAC LIGHTING	WS-26922-BK
XF1	52" DIAMETER THREE BLADE HAIKU COASTAL CEILING FAN MARINE GRADE; WHITE FINISH	SURFACE CEILING	---	---	120V	27 W	BIG ASS FANS	MK-HKC1-042506A824F824I05S2

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL SEAL 33282 ENGINEER KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: SINGLE LINE POWER DIAGRAM AND LIGHTING SCHEDULE

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved:

Building Number: # 7A

Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH

Drawing Number: E-601

Dwg 12 of 13

C:\Users\charlson\Documents\E_23-060-VA Jackson-Construct CLC_R23_charlsonCY4F9.rvt
6/18/2025 9:50:19 AM

Docusign Envelope ID: 1B0CF919-DD58-4F50-92C9-22A439CDA1CA

PANEL: (E)CGLEL1

BRANCH: LIFE SAFETY
PHASE CREATED: NEW CONSTRUCTION **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
VOLTAGE: 120/208V, 3PH, 4W **MAINS, TYPE:** 150 A MAIN CB **SHORT CIRCUIT RATING:** 14,000 AMPS SYMMETRICAL

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	MGP	20 A	1	0.00			0.00			2	20 A	PANEL E2A	2
3	MGP	20 A	1		0.00			0.00					4
5	NAC	20 A	1			0.00			0.00	2	20 A	PANEL E2A	6
7	NAC	20 A	1	0.00			0.00						8
9	FAP	20 A	1		0.00			0.00		2	20 A	PANEL E2A	10
11	CLOSED CIRCUIT MRKD AS SPARE	20 A	1			0.00			0.00				12
13	CLOSED CIRCUIT MRKD AS SPARE	20 A	1	0.00			0.00			1	20 A	DAMPERS	14
15	*REC - MECH (E) G132	20 A	1		0.18			0.00		1	20 A	LIGHTS - MECH RM	16
17	*REC - TELECOM CLOSET G113	20 A	1			0.18			0.00	1	20 A	JOHNSON CONTROL PANEL	18
19	SPARE	20 A	1	0.00			0.00			1	20 A	MAGLOCK/FITNESS	20
21	SPARE	20 A	1		0.00			0.00		1	20 A	JOHNSON CONTROL PANEL	22
23	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	26
27	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	28
29	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	32
33	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	34
35	FACP	20 A	1			0.00			0.00				36
37				0.00			0.00			3	100 A	H1EL1	38
39	SOUTH	20 A	3		0.00			0.00					40
41						0.00			0.00	2	50 A	CLOSED CIRCUIT MRKD AS SPARE	42
43				0.00			0.00						44
45	NORTH	20 A	3		0.00			0.00		2	50 A	CLOSED CIRCUIT MRKD AS SPARE	46
47						0.00			0.00				48
49				0.00			--						50
51	MIDDLE	20 A	3		0.00			--		3	--	SPACE	52
53						0.00			--				54
			TOTAL LOAD:	0.00 kVA		0.18 kVA		0.18 kVA					
			TOTAL AMPS:	0 A		2 A		2 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
RECEPTACLES (GENERAL)	0.36 kVA	100.00%	0.36 kVA		
				CONNECTED LOAD:	0.36 kVA
				CONNECTED AMPS:	1 A
				TOTAL DEMAND LOAD:	0.36 kVA
				TOTAL DEMAND AMPS:	1 A

NOTES:
*CONNECT TO EXISTING SPARE CIRCUIT BREAKER. PROVIDE (2) 12 AWG, AND (1) 12 AWG GND IN 3/4"C.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOAD (A/HP)	MOCP	VOLTAGE (V / Ph / Hz)	DISCONNECT SWITCH	CONDUCTORS & CONDUIT	REMARKS
7A-HPWH-1	HEAT PUMP WATER HEATER	40 A	70 A	460/3/60	30A/3P/FPN/3R	(4) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-HPWH-2	HEAT PUMP WATER HEATER	40 A	70 A	460/3/60	30A/3P/FPN/3R	(4) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-HRCH-1	CHILLER	74 A	100 A	460/3/60	100A/3P/FPN/3R	(4) 3 AWG AND (1) 8 AWG EG IN 1-1/4"C.	
7A-HRCH-2	CHILLER	74 A	100 A	460/3/60	100A/3P/FPN/3R	(4) 3 AWG AND (1) 8 AWG EG IN 1-1/4"C.	
7A-HRCH-3	CHILLER	74 A	100 A	460/3/60	100A/3P/FPN/3R	(4) 3 AWG AND (1) 8 AWG EG IN 1-1/4"C.	
7A-HU-1	STEAM HUMIDIFIER	77 A	100 A	460/3/60	100A/3P/FPN/3R	(4) 3 AWG AND (1) 8 AWG EG IN 1-1/4"C.	
7A-RF-1	RETURN FAN	5 HP	15 A	460/3/60	VFD W/ INTEGRAL DISCONNECT	(4) 10 AWG AND (1) 10 AWG EG IN 3/4"C.	
7A-RF-2	RETURN FAN	5 HP	15 A	460/3/60	VFD W/ INTEGRAL DISCONNECT	(4) 10 AWG AND (1) 10 AWG EG IN 3/4"C.	
7A-SF-1	SUPPLY FAN	20 HP	60 A	460/3/60	VFD W/ INTEGRAL DISCONNECT	(4) 2 AWG AND (1) 8 AWG EG IN 1-1/4"C.	
7A-SF-2	SUPPLY FAN	20 HP	60 A	460/3/60	VFD W/ INTEGRAL DISCONNECT	(4) 2 AWG AND (1) 8 AWG EG IN 1-1/4"C.	
7A-CHW-P1	CHILED WATER PUMP	3 HP	20 A	208/3/60	VFD W/ INTEGRAL DISCONNECT	(4) 8 AWG AND (1) 8 AWG EG IN 3/4"C.	
7A-CHW-P2	CHILED WATER PUMP	3 HP	20 A	208/3/60	VFD W/ INTEGRAL DISCONNECT	(4) 8 AWG AND (1) 8 AWG EG IN 3/4"C.	
7A-HHW-P1	HOT WATER PUMP	3 HP	20 A	208/3/60	VFD W/ INTEGRAL DISCONNECT	(4) 8 AWG AND (1) 8 AWG EG IN 3/4"C.	
7A-HHW-P2	HOT WATER PUMP	3 HP	20 A	208/3/60	VFD W/ INTEGRAL DISCONNECT	(4) 8 AWG AND (1) 8 AWG EG IN 3/4"C.	
7A-DHP-1	DOMESTIC HOT WATER PUMP	1/2 HP	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-DHP-2	DOMESTIC HOT WATER PUMP	1/2 HP	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-DRP-1	RECIRCULATION PUMP	4.5 A	15 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-EF-1	EXHAUST FAN	1/4 HP	15 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-101	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-103	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-104	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-105	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-106	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-107	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-108	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-109	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-110	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-111	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-112	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-113	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-114	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-115	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-116	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-117	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 10 AWG AND (1) 10 AWG EG IN 3/4"C.	
7A-TU-118	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-119	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-120	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-121	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-122	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-TU-123	AIR TERMINAL UNIT	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	
7A-MTMV-1	MIXING VALVE	1.5 A	20 A	120/1/60	MOTOR RATED SWITCH	(2) 12 AWG AND (1) 12 AWG EG IN 3/4"C.	

PANEL: CGCL4

BRANCH: CRITICAL
PHASE CREATED: NEW CONSTRUCTION **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
VOLTAGE: 120/208V, 3PH, 4W **MAINS, TYPE:** 225 A MAIN CB **SHORT CIRCUIT RATING:** 10,000 AMPS SYMMETRICAL

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - RESIDENT ROOM 105	20 A	1	0.54			0.54			1	20 A	REC - RESIDENT ROOM 106	2
3	REC - RESIDENT ROOM 107	20 A	1		0.54			0.36		1	20 A	REC - RESIDENT ROOM 108	4
5	REC - RESIDENT ROOM 109	20 A	1			0.54			0.54	1	20 A	REC - RESIDENT ROOM 110	6
7	REC - RESIDENT ROOM 111	20 A	1	0.54			0.54			1	20 A	REC - RESIDENT ROOM 112	8
9	REC - RESIDENT ROOM 113	20 A	1		0.54			0.54		1	20 A	REC - RESIDENT ROOM 114	10
11	REC LIFT - RESIDENT ROOM 105	20 A	1			0.12			0.12	1	20 A	REC LIFT - RESIDENT ROOM 106	12
13	REC LIFT - RESIDENT ROOM 107	20 A	1	0.12			0.12			1	20 A	REC LIFT - RESIDENT ROOM 108	14
15	REC LIFT - RESIDENT ROOM 109	20 A	1		0.12			0.12		1	20 A	REC LIFT - RESIDENT ROOM 110	16
17	REC LIFT - RESIDENT ROOM 111	20 A	1			0.12			0.12	1	20 A	REC LIFT - RESIDENT ROOM 112	18
19	REC LIFT - RESIDENT ROOM 113	20 A	1	0.12			0.12			1	20 A	REC LIFT - RESIDENT ROOM 114	20
21	REC - MECHANICAL ROOM 104	20 A	1		0.18								22
23	REC - CORRIDOR 115	20 A	1			0.90			0.72	1	20 A	REC - CORRIDOR 115	24
25	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	26
27	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	28
29	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	32
33	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	34
35	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	38
39	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	42
			TOTAL LOAD:	2.64 kVA		2.40 kVA		3.18 kVA					
			TOTAL AMPS:	22 A		20 A		27 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
RECEPTACLES (GENERAL)	7.02 kVA	100.00%	7.02 kVA		
RECEPTACLE (DEDICATED)	1.20 kVA	100.00%	1.20 kVA		
				CONNECTED LOAD:	8.22 kVA
				CONNECTED AMPS:	23 A
				TOTAL DEMAND LOAD:	8.22 kVA
				TOTAL DEMAND AMPS:	23 A

NOTES:

PANEL: CGNL4

BRANCH: NORMAL
PHASE CREATED: NEW CONSTRUCTION **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
VOLTAGE: 120/208V, 3PH, 4W **MAINS, TYPE:** 225 A MAIN CB **SHORT CIRCUIT RATING:** 10,000 AMPS SYMMETRICAL

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - RESIDENT ROOM 114	20 A	1	1.08			1.08			1	20 A	REC - RESIDENT ROOM 113	2
3	REC - RESIDENT ROOM 112	20 A	1		1.08			1.08		1	20 A	REC - RESIDENT ROOM 111	4
5	REC - RESIDENT ROOM 110	20 A	1			1.08			1.08	1	20 A	REC - RESIDENT ROOM 109	6
7	REC - RESIDENT ROOM 108	20 A	1	1.08			1.08			1	20 A	REC - RESIDENT ROOM 107	8
9	REC - RESIDENT ROOM 106	20 A	1		1.08			1.08		1	20 A	REC - RESIDENT ROOM 105	10
11	REC - SOILED HOLD 116	20 A	1			1.08			1.08	1	20 A	REC - CLEAN/LINEN 118	12
13	REC - CORRIDOR 115	20 A	1	0.72			0.18			1	20 A	REC FIREPLACE - LIVING ROOM 101	14
15	REC - SEATING 122	20 A	1		0.72			0.18		1	20 A	REC FRIDGE - NURSE STATION 123	16
17	REC - NURSE STATION 123	20 A	1			0.21			1.08	1	20 A	REC - CORRIDOR 115	18
19	REC - SUN ROOM 103	20 A	1	1.08			0.72			1	20 A	GFI REC - PORCH 102	20
21	REC - LIVING ROOM 101	20 A	1		1.08			0.72		1	20 A	REC - LIVING ROOM 101	22
23	REC FIREPLACE - LIVING ROOM 101	20 A	1			0.18			0.36	1	20 A	GFI RECEP - ROOF	24
25	REC - EQUIP 121	20 A	1	0.72			0.32			1	20 A	LTG MIRRORS RESIDENT RMS	26
27	REC - NURSE STATION 123	20 A	1		0.18			0.00		1	20 A	CEILING FANS SCREEN PORCH	28
29	FLUSH SENSOR POWER	20 A	1			3.60			0.90	1	20 A	RECEPTACLES (GENERAL)	30
31	REC - EQUIP 121	20 A	1	0.72			0.90			1	20 A	GFI REC - RESIDENT BATHROOM 105-109	32
33								0.00		1	20 A	GFI REC - RESIDENT BATHROOM 110-114	34
35	REC - SEATING 120	20 A	1			0.54			0.18	1	20 A	REC - LIVING ROOM 101 TV	36
37	SPARE	20 A	1	0.00			0.18			1	20 A	REC - LIVING ROOM 101 TV	38
39	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	42
			TOTAL LOAD:	9.86 kVA		7.20 kVA		11.37 kVA					
			TOTAL AMPS:	86 A		60 A		98 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
MOTOR/HVAC	0.36 kVA	125.00%	0.45 kVA		
RECEPTACLES (GENERAL)	27.72 kVA	68.04%	18.86 kVA		
LIGHTING (GENERAL)	0.35 kVA	125.00%	0.44 kVA	CONNECTED LOAD:	28.43 kVA
				CONNECTED AMPS:	79 A
				TOTAL DEMAND LOAD:	19.75 kVA
				TOTAL DEMAND AMPS:	55 A

NOTES:

PANEL: CGQL1

BRANCH: EQUIPMENT
PHASE CREATED: NEW CONSTRUCTION **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
VOLTAGE: 120/208V, 3PH, 4W **MAINS, TYPE:** 100 A MAIN CB **SHORT CIRCUIT RATING:** 14,000 AMPS SYMMETRICAL

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1	GFI REC - MECHANICAL 104	20 A	1	1.44			1.27						2
3	7A-EF-1	20 A	1		0.24			1.27		3	30 A	7A-HHW-P2	4
5	AHU UV LIGHTS	20 A	1			0.36			1.27				6
7	AHU RECEPTACLES	20 A	1	0.36			1.27						8
9	REC 121-MTMV-1 - MECHANICAL 104	20 A	1		0.18			1.27		3	30 A	7A-HHW-P1	10
11	7A-DHP-1	20 A	1			1.18			1.27				12
13	7A-DHP-2	20 A	1	1.18			0.00						14
15	7A-DRP-1	20 A	1		0.18			0.00		3	30 A	7A-CHW-P2	16
17						1.27			0.00				18
19	7A-CHW-P1	30 A	3	1.27			0.45			1	20 A	TU POWER GND FLOOR	20
21					1.27			0.55		1	20 A	TU POWER GND FLOOR	22
23	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	26
27	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	28
29	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	32
33	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	34
35	SPACE	--	1			--			--	1	--	SPACE	36
37	SPACE	--	1	--			--			1	--	SPACE	38
39	SPACE	--	1		--			--		1	--	SPACE	40
41	SPACE	--	1			--			--	1	--	SPACE	42
			TOTAL LOAD:	6.95 kVA		4.81 kVA		5.13 kVA					
			TOTAL AMPS:	58 A		40 A		43 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
MOTOR/HVAC	15.30 kVA	110.55%	16.91 kVA		
RECEPTACLES (GENERAL)	1.62 kVA	100.00%	1.62 kVA		
				CONNECTED LOAD:	16.89 kVA
				CONNECTED AMPS:	47 A
				TOTAL DEMAND LOAD:	18.51 kVA
				TOTAL DEMAND AMPS:	51 A

NOTES:

PANEL: CGCH4

BRANCH: CRITICAL
PHASE CREATED: NEW CONSTRUCTION **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
VOLTAGE: 277/480V, 3PH, 4W **MAINS, TYPE:** 200 A MAIN CB **SHORT CIRCUIT RATING:** 14,000 AMPS SYMMETRICAL

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1				2.64			0.52			1	20 A	EM LTG CORRIDOR, COMMON	2
3	PNL 'CGCH4' VIA XFMR	20 A	3		2.40			0.26		1	20 A	EM LTG EXTERIOR WALKWAYS	4
5						3.18			0.19	1	20 A	EM LTG EXTERIOR WALKWAYS	6
7	EM LTG PATIENT ROOMS	20 A	1	0.04			0.04			1	20 A	EM LTG EXTEIOR BLDG MTD	8
9	SPARE	20 A	1		0.00			0.04		1	20 A	EM LTG PATIENT ROOMS	10
11	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	14
15	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	16
17	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	20
21	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	22
23	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	26
27	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	28
29	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	32
33	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	34
35	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	38
39	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	42
			TOTAL LOAD:	3.24 kVA		2.70 kVA		3.37 kVA					
			TOTAL AMPS:	12 A		10 A		12 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
RECEPTACLES (GENERAL)	7.02 kVA	100.00%	7.02 kVA		
RECEPTACLE (DEDICATED)	1.20 kVA	100.00%	1.20 kVA		
LIGHTING (GENERAL)	0.64 kVA	125.00%	0.81 kVA	CONNECTED LOAD:	9.31 kVA
LIGHTING (EXTERIOR)	0.45 kVA	125.00%	0.56 kVA	CONNECTED AMPS:	11 A
				TOTAL DEMAND LOAD:	9.59 kVA
				TOTAL DEMAND AMPS:	12 A

NOTES:

PANEL: CGNH4

BRANCH: NORMAL
PHASE CREATED: NEW CONSTRUCTION **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
VOLTAGE: 277/480V, 3PH, 4W **MAINS, TYPE:** 200 A MAIN CB **SHORT CIRCUIT RATING:** 14,000 AMPS SYMMETRICAL

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1				9.86			1.04			1	20 A	LTG RESIDENT RMS	2
3	PNL 'CGNL4' VIA XFMR	20 A	3		7.20			2.33		1	20 A	LTG CORRIDOR	4
5						11.37			2.94	1	20 A	LTG COMMON, MECH	6
7	LIGHTING (GND FLOOR DOWNLIGHTS)	20 A	1	1.04			0.00			1	20 A	SPARE	8
9	LIGHTING (EXTERIOR)	20 A	1		0.05			0.00		1	20 A	SPARE	10
11	LIGHTING (EXTERIOR)	20 A	1			0.21			0.00	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	14
15	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	16
17	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	20
21	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	22
23	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	26
27	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	28
29	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	32
33	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	34
35	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	38
39	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	42
			TOTAL LOAD:	11.94 kVA		9.58 kVA		14.52 kVA					
			TOTAL AMPS:	44 A		35 A		54 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
MOTOR/HVAC	0.36 kVA	125.00%	0.45 kVA		
RECEPTACLES (GENERAL)	27.72 kVA	68.04%	18.86 kVA		
LIGHTING (GENERAL)	7.76 kVA	125.00%	9.70 kVA	CONNECTED LOAD:	36.03 kVA
LIGHTING (EXTERIOR)	0.19 kVA	125.00%	0.24 kVA	CONNECTED AMPS:	43 A
				TOTAL DEMAND LOAD:	29.25 kVA
				TOTAL DEMAND AMPS:	35 A

NOTES:

PANEL: CGQH1

BRANCH: EQUIPMENT
PHASE CREATED: NEW CONSTRUCTION **MOUNTING:** SURFACE **ENCLOSURE:** NEMA 1
VOLTAGE: 277/480V, 3PH, 4W **MAINS, TYPE:** 600 A MAIN CB **SHORT CIRCUIT RATING:** 14,000 AMPS SYMMETRICAL

CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT
1				21.34			6.95						2
3	7A-HU-1	100 A	3		21.34			4.81		3	100 A	PNL 'CGQL1' VIA XFMR	4
5						21.34			5.13				6
7				7.48			20.51						8
9	7A-SF-1	70 A	3		7.48			20.51		3	200 A	7A-HRCH-1	10
11						7.48			20.51				12
13				0.00			20.51						14
15	7A-SF-2	70 A	3		0.00			20.51		3	200 A	7A-HRCH-2	16
17						0.00			20.51				18
19				2.11			20.51						20
21	7A-HPWH-1	30 A	3		2.11			20.51		3	200 A	7A-HRCH-3	22
23						2.11			20.51				24
25				2.11			2.11						26
27	7A-RF-1	20 A	3		2.11			2.11		3	30 A	7A-HPWH-2	28
29						2.11			2.11				30
31				2.11			0.00			1	20 A	SPARE	32
33	7A-RF-2	20 A	3		2.11			0.00		1	20 A	SPARE	34
35						2.11			0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	38
39	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	40
41	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	42
			TOTAL LOAD:	101.73 kVA		99.62 kVA		100.02 kVA					
			TOTAL AMPS:	367 A		360 A		361 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
MOTOR/HVAC	299.95 kVA	109.44%	328.26 kVA		
RECEPTACLES (GENERAL)	1.62 kVA	100.00%	1.62 kVA		
				CONNECTED LOAD:	301.37 kVA
				CONNECTED AMPS:	362 A
				TOTAL DEMAND LOAD:	329.68 kVA
				TOTAL DEMAND AMPS:	397 A

NOTES:

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33282 KEVIN T. KUBLANK
6/19/2025

PROJECT MANAGER
ACG Project Number 23-060

APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420
© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL EQUIPMENT CONNECTION & PANEL SCHEDULES
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Approved:
Date: JUNE 23, 2025 | Checked: KTK | Drawn: CCH
Drawing Number: E-602
Dwg 13 of 13

C:\Users\chanson\Documents\E_23-060-VA Jackson-Construct CLC_R23_chansonCY4F9.rvt
6/18/2025 9:50:22 AM
VA FORM 08-6231

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B

CABLES AND CONNECTORS COLOR LEGEND

DESCRIPTION ITEM	JACK	CABLE	PATCH CABLES	I.D.	NOTES
DATA/COMPUTER	BLUE	BLUE	BLUE	C	4 PAIR CABLE
WIRELESS ACCESS POINT	GREEN	GREEN[3]	GREEN	WAP	4 PAIR CABLE
FIBER - MULTI-MODE	BLACK	AQUA	AQUA	FO	6/12/24/36
FIBER - SINGLE-MODE	IVORY	YELLOW[3]	YELLOW	FO	6/12/24
SOUND SYSTEM	N/A	GREEN[3]	N/A	SS	MULTI COLOR CONDUCTORS
NURSE CALL	N/A	YELLOW[3]	N/A	NC	4 PAIR UTP
MATV	N/A	BLACK	N/A	MATV	COAX RG6
SSTV - IP	WHITE	WHITE	WHITE	SSTV	SSTV
PACS	N/A	GRAY	N/A	PACS	MULTI PAIR CONDUCTORS

NOTES:

1. OTHER CABLING CONDITIONS SHALL BE IDENTIFIED BY THE FOLLOWING COLORS:
   - A. DEMARCATION POINT - ORANGE
   - B. NETWORK CONNECTION - GREEN
   - C. FIRST LEVEL, TERMINATING BUILDING BACKBONE, MC(CD) TO IC(BD) - WHITE
   - D. SECOND LEVEL, IC(BD) TO TR(H/D/FD) - GRAY
   - E. CAMPUS BACKBONE - BROWN
2. WHERE MULTIPLE SYSTEMS UTILIZE THE SAME CABLE COLOR, SYSTEM SPECIFIC CABLING SHALL HAVE A STRIPE IN ORDER TO INDICATE SPECIFIC SYSTEM SERVED. COORDINATE STRIPE COLOR FOR SPECIFIC SUBSYSTEMS WITH COR/VA.

TECHNOLOGY ABBREVIATIONS LIST

ADO	AUTOMATIC DOOR OPERATOR
AFF	ABOVE FINISH FLOOR
BOD	BASIS OF DESIGN
CCTV	CLOSED CIRCUIT TELEVISION
COAX	COAXIAL CABLE
COMM	COMMUNICATION
COR	CONTRACTING OFFICER REPRESENTATIVE
DC	DOOR CONTACT SWITCH
DN	DOWN
DO	DOOR OPERATOR
DVC	DIGITAL VOICE COMMAND
DVR	DIGITAL VIDEO RECORDER
E	EXISTING DEVICES
EEB	EMERGENCY EXIT BUTTON
EL	ELECTRICAL STRIKE
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FO	FIBER OPTIC
FAGAP	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL
IT	INTERCOMMUNICATION ROOM
MATV	MASTER ANTENNA TELEVISION
MM	MULTI MODE FIBER
NAC	NETWORK APPLIANCE CIRCUIT PANEL
N	NEW DEVICES
NCA	NETWORK CONTROL ANNUNCIATOR
NS	NO SCALE
NTS	NOT TO SCALE
NVR	NETWORK VIDEO RECORDER
OC	ON CENTER
OIT	OFFICE OF INFORMATION TECHNOLOGY
PACS	PHYSICAL ACCESS CONTROL SYSTEM
PAMN	PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEM
PB	PUSH BUTTON
PBB	PRIMARY BONDING BUSBAR
PDU	RACK POWER DISTRIBUTION UNITS
POE	POWER OVER ETHERNET
PR	PAIR
RBB	RACK BONDING BUSBAR
RX	REQUEST TO EXIT
SBB	SECONDARY BONDING BUSBAR
SEP	SERVICE ENTRANCE PROTECTION
SLC	SIGNALING LINE CIRCUIT
SM	SINGLE MODE FIBER
SSTV	SECURITY SURVEILLANCE TELEVISION
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TM	TELEMONITORING
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TP	TWISTED PAIR
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
WM	WIRE MANAGEMENT
WAP	WIRELESS ACCESS POINT
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR

SECURITY SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION
PACS	6' TO TOP	PHYSICAL ACCESS CONTROL SYSTEM
CR	48"	CARD READER (K - KEYPAD)
DR	DOOR	ELECTRONIC LOCKING MECHANISM
EP	DOOR	ELECTRONIC PANIC HARDWARE
DC	DOOR	DOOR CONTACT
RX	ABOVE DOOR	REQUEST FOR EXIT SENSOR
ADO	DOOR	DOOR OPERATOR
	48"	HANDWAVE
	48"	EMERGENCY EXIT BUTTON TO RELEASE DOOR (EEB)
MD	88"	MOTION DETECTOR
	54"	INTERCOM WITH CAMERA
M	DESK	INTERCOM MASTER WITH PUSH TO RELEASE DOOR
	CEILING	SSTV DOME CAMERA FIXED
	CEILING	SSTV (90/180/270/360) PANORAMIC MULTISENSOR CAMERA
SSTV	FLOOR	SSTV CAMERA EQUIPMENT CABINET
AOF	6' TO TOP	AREA OF REFUGE PANEL
AOFA	6' TO TOP	AREA OF REFUGE ANNUNCIATION PANEL
IC	48"	AREA OF REFUGE INTERCOM
SL	CEILING	AREA OF REFUGE STROBE LIGHT
DP	48"	DURESS PANIC ALARM PUSH BUTTON
DPP	6' TO TOP	DURESS PANIC ALARM PANEL

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.
SEE DRAWINGS FOR MORE INFORMATION.
NOTE: NOT ALL SYMBOLS ARE USED.

ALTERNATE NOTES

BID DEDUCT ALTERNATE #1
ALL WORK IN CONTRACT EXCEPT CHANGE FENCE AND PYLONS TO METAL FENCE OR UTILIZE EXISTING FENCE. SEE SHEET A-101.1.

BID DEDUCT ALTERNATE #2
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 AND SUBSTITUTE BRICK IN PLACE OF RAINSCREEN. SEE SHEET A-201.1.

BID DEDUCT ALTERNATE #3
ALL WORK IN CONTRACT EXCEPT DEDUCT #1, #2 AND OMIT SHADE PERGOLA, INCLUDING ASSOCIATED LIGHTS, RECEPTACLES, SWITCHES, AND OTHER ELECTRICAL COMPONENTS. SEE SHEETS ES101, A-101.1.

BID DEDUCT ALTERNATE #4
ALL WORK IN CONTRACT EXCEPT DEDUCT #1, #2, #3 AND REMOVE SCREEN SYSTEM AT FIRST-FLOOR PORCH. SEE SHEET A-201.1.

BID DEDUCT ALTERNATE #5
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #4 AND REMOVE SCREEN SYSTEM AT GROUND FLOOR PORCH. SEE SHEET A-201.1.

BID DEDUCT ALTERNATE #6
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #5 AND OMIT LANDSCAPE/HARDSCAPE IN THE SOUTHERN COURTYARD. SEE SHEET A101.1.

BID DEDUCT ALTERNATE #7
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #6 AND ELIMINATE SCREEN PORCH, INCLUDING ASSOCIATED LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, AND NOTIFICATION DEVICES. INSTALL LIGHT FIXTURE M1E AT DOUBLE DOORS EXITING THE BUILDING. INSTALL PULL STATION AT DOUBLE DOORS EXITING THE BUILDING. SEE SHEETS EL101, EP101, AND FA101.

BID DEDUCT ALTERNATE #8
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #7 AND ELIMINATE LANDSCAPE LIGHTING, INCLUDING LIGHT FIXTURES AND LIGHTING CONTROLS. SEE SHEET ES101.

BID DEDUCT ALTERNATE #9
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #8 AND OMIT CANOPIES. SEE SHEET A-105.

BID DEDUCT ALTERNATE #10
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #9 AND ELIMINATE NORTH COURTYARD. SEE SHEET A-101.1.

BID DEDUCT ALTERNATE #11
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #10 AND REDUCE LANDSCAPING, TREE, AND SHRUB CALIPERS. SEE SHEET A-101.1.

BID DEDUCT ALTERNATE #12
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #11 AND ELIMINATE THIRD CHILLER, INCLUDING ASSOCIATED BREAKER, DISCONNECT, AND WIRING. SEE SHEET E-401.

BID DEDUCT ALTERNATE #13
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #12 AND MOVE CEILING LIFTS TO ACTIVATION BUDGET. SEE SHEET A-104.1.

BID DEDUCT ALTERNATE #14
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #13 AND PLACE WINDOW SHADES IN THE ACTIVATION BUDGET.

BID DEDUCT ALTERNATE #15
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #14 AND ELIMINATE WINDOW SOFFITS AND SOLID SURFACE SILLS. SEE SHEET A-512 DETAIL 10.

BID DEDUCT ALTERNATE #16
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #15 AND SHELL FIVE RESIDENT ROOMS. INSTALL ELECTRICAL WIRING, BOXES, SWITCHES AS SHOWN, EXCLUDING LIGHT FIXTURES C1 AND D2. INSTALL LIGHT FIXTURE F1 AND CIRCUIT TO WALL SWITCH PER DETAIL 5/E-401. SEE SHEET EL101.

BID DEDUCT ALTERNATE #17
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #16 AND ELIMINATE BENCHES. SEE SHEET A-101.1.

GENERAL TECHNOLOGY SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION	
N	18"	DATA OUTLET - N-4 PR UTP	(N - QUANTITY)
N	48"	TELCO OUTLET - N-4 PR UTP	(N - QUANTITY)
W	48"	WALL PHONE JACK	
N	CEILING	WIRELESS ACCESS POINT - N-4 PR UTP	(N - QUANTITY)
SN	CEILING	SECURE WIRELESS ACCESS POINT - N-4 PR UTP	(N - QUANTITY)
	AS NOTED	TV OUTLET WALL MOUNTED	
	FLOOR	CHANNEL TR EQUIPMENT RACK	
	FLOOR	TR EQUIPMENT CABINET	
MATV	6' TO TOP	MATV EQUIPMENT CABINET	
	ABOVE CEILING	WIRE BASKET CABLE TRAY (4" HIGH - SEE PLANS FOR OTHER DIMENSIONS)	
	18"	BONDING BUSBAR	
	8"	4'x8'x3/4" FIRE RETARDED TTB	
	FLOOR	HIGH CAPACITY FLOOR BOX FOR DATA (2-4P) & POWER (4-RECEPTACLE)	
J	AS NOTED	JUNCTION BOX - AS NOTED ON PLANS	

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.
SEE DRAWINGS FOR MORE INFORMATION.
NOTE: NOT ALL SYMBOLS ARE USED.

NURSE CALL SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION
NCE	6' TO TOP	NURSE CALL EQUIPMENT CABINET
	18"	NURSE CALL MASTER STATION/CONSOLE
	HEADWALL	NURSE CALL PATIENT STATION WITH PILLOW SPEAKER 2 ADDITIONAL PUSHBUTTONS (ONE FOR CODE BLUE AND ONE FOR STAFF ASSIST) WITH CLEAR PLASTIC COVER
	HEADWALL	NURSE CALL PATIENT STATION WITH CALL CORD. (1 - SINGLE, 2 - DUAL, V - VANDAL RESISTANT)
	40", 72"	NURSE CALL EMERGENCY STATION WITH PULL CORD AND AUDIO +40" AFF IN RESTROOM, +72" AFF IN SHOWER (V - VANDAL RESISTANT, PB - PUSH BUTTON)
	HEADWALL /40"	NURSE CALL CODE BLUE STATION WITH COVER
	CEILING	NURSE CALL DOME LIGHT (Z - ZONE LIGHT, V - VANDAL RESISTANT)
	ABOVE DOOR	NURSE CALL DOME LIGHT
	18"	NURSE CALL PATIENT BED INTERFACE RECEPTACLE
	46"	NURSE CALL DUTY STATION
	46"	NURSE CALL STAFF TERMINAL
NM	CEILING	NURSE CALL WIRELESS ANTENNAS
	CEILING	WIRELESS PENDANT
M	48"	PATIENT STATION (PB - PUSH BUTTON, M - MICROPHONE, K -KEYED)
KP	48"	PATIENT ROAM ALERT ACCESS CONTROL KEYPAD
L	CEILING	PATIENT ROAM ALERT ANTENNA

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.
SEE DRAWINGS FOR MORE INFORMATION.
NOTE: NOT ALL SYMBOLS ARE USED.

PUBLIC ADDRESS SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION
S	CEILING	CEILING MOUNTED SPEAKERS
S	96"	WALL MOUNTED SPEAKERS
	96"	WALL MOUNTED HORN SPEAKER
VC	48"	VOLUME CONTROL
PA	48"	PAGING CONSOLE
PA	FLOOR	PAGING CABINET

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.
SEE DRAWINGS FOR MORE INFORMATION.
NOTE: NOT ALL SYMBOLS ARE USED.

WALL RATING LEGEND

- 1 HOUR FIRE SEPARATION
- 2 HOUR FIRE SEPARATION
- S 1 HOUR SMOKE RATED

TECHNOLOGY GENERAL NOTES

1. PROVIDE COMMUNICATIONS DEVICES AND EQUIPMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICANS WITH DISABILITIES ACT, LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, BICSI STANDARDS, AND VA STANDARDS.
2. PROVIDE ADDITIONAL SUPPORT FOR DEVICES AND EQUIPMENT WHERE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
3. FIRESTOP, DRAFTSTOP, SMOKESTOP OR PROTECT ANNULAR SPACE AROUND PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILINGS, AND ROOF IN ACCORDANCE WITH REQUIREMENTS OF NFPA 70, UL LISTING REQUIREMENT, SPECIFICATIONS AND APPLICABLE BUILDING CODES.
4. PROVIDE CABLING THAT COMPLIES WITH THE LATEST EDITION OF TELECOMMUNICATIONS DISTRIBUTION METHOD MANUAL AND ANSI/TIA/EIA PUBLICATIONS.
5. COMPLY WITH THE LATEST ANSI/TIA/EIA 758 AND 607B OR 607A - GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS IN COMMERCIAL BUILDING.
6. COMPLY WITH THE LATEST ANSI/TIA/EIA 568B - COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING STANDARD.
7. COMPLY WITH THE LATEST ANSI/TIA/EIA 569B - COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES.
8. COMPLY WITH THE LATEST NFPA 70 NATIONAL ELECTRICAL CODE.
9. COMPLY WITH THE LATEST NFPA 99 HEALTHCARE FACILITIES CODE.
10. COMPLY WITH THE LATEST NFPA 101 LIFE SAFETY CODE.
11. COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
12. MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. DEEMED EQUAL AND APPROVED BY THE COR WILL BE ACCEPTABLE. COMPLY WITH "BUY AMERICAN ACT".
13. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, BOXES, OUTLET, OR EQUIPMENT UNLESS NOTED OTHERWISE.
14. PROVIDE RGS OR EMT CONDUIT UNLESS OTHERWISE NOTED.
15. PROVIDE MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT LABEL LISTED BY APPROVED THIRD PARTY TESTING AGENCY.
16. NOTIFY COR REGARDING DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS FOR CLARIFICATION. THE MORE STRINGENT OF THEM SHALL TAKE PRECEDENCE.
17. PROVIDE TIA/EIA CAT 6A COPPER OUTLETS AND CONNECTORS.
18. ALL WORK AREA OUTLETS SHALL BE 8 PIN, CAT 6A KEYSTONE JACK WIRED PER T568A OR T568B AS DIRECTED BY THE VA COR.
19. LABEL DEVICES IN ACCORDANCE WITH LATEST ANSI/TIA 606A OR 606B EDITION AS WELL AS THE STANDARDS SET FORTH BY THE VA HOSPITAL OIT.
20. PROVIDE A MINIMUM OF 12" CLEARANCE ABOVE THE CABLE TRAY PER TIA/EIA 569.B PARAGRAPH 4.5.6.2.
21. VA WILL CONDUCT A WAP SURVEY AND PROVIDE THE SURVEY TO THE CONTRACTOR. INSTALL CABLING AND EQUIPMENT IN ACCORDANCE WITH THE SURVEY. COORDINATE WITH COR/OIT.
22. ALL CABLING INSTALLED ABOVE CEILING SHALL BE PLENUM RATED.
23. MINIMUM CONDUIT SIZE TO BE USED IS 1-1/4" EMT.
24. DEVICES PLACED IN TELECOM ROOM TO BE MOUNTED ON FIRE RETARDANT PLYWOOD.
25. PROVIDE OUTDOOR AND INDOOR CONDUITS, INNERDUCTS, TELECOM HANDHOLDS, TELECOM MANHOLES, HANDHOLD COVERS, CABLING BOTH FIBER AND COPPER, SUPPORTS, TESTING, AND ALL RELATED MATERIALS FOR A COMPLETE SYSTEM AS SHOWN HEREIN AND DESCRIBED IN THE SPECIFICATIONS.
26. PROVIDE CABLE TRAY, LADDER TRAY J-HOOKS, CONDUITS, JUNCTION BOXES, SUPPORTS FIRE AND SMOKE RATED SLEEVE ASSEMBLIES, FLOOR SLEEVES, CORE DRILLING, CABLING (BOTH FIBER AND COPPER), JACKS, TERMINATIONS, COVER PLATES, LABELING, PATCH PANELS, PATCH CORDS, CHANNEL RACKS, VERTICAL AND HORIZONTAL WIRE MANAGEMENT, BONDING BUS BARS, RACK MOUNTED BONDING BUS, BOND CABLING, BONDING TO THE GROUNDING SYSTEM, BONDING CABLE IN THE CABLE AND LADDER TRAY, POWER STRIPS, PDU'S, UPS'S, TESTING AND RELATED MATERIALS FOR A COMPLETE CABLING SYSTEM AS SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS.
27. PROVIDE J-HOOKS OR FLEXIBLE CONDUITS (NOT TO EXCEED 10 FEET) WHERE CABLE TRAY IS NOT SHOWN OR IF THE PATH OF THE CABLE TRAY IS OBSTRUCTED. PROVIDE JUNCTION BOXES, FIRE AND SMOKE RATED SLEEVE ASSEMBLIES, AND COVER PLATES AS NEEDED OR WHERE REQUIRED BY CODE. LABEL AND SUPPORT J-HOOKS AND CONDUITS, AS SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS.
28. PROVIDE MULTI-SENSOR PANORAMIC SECURITY SURVEILLANCE TELEVISION SYSTEM (SSTV) CAMERAS, DVRS/NVRS, STORAGE, SOFTWARE, LICENSES, CONDUITS, JUNCTION BOXES, FIRE AND SMOKE RATED SLEEVE ASSEMBLIES, CABLING, COVER, JACKS, TERMINATIONS, COVER PLATES, LABELING, PATCH PANELS, PATCH CORDS, TESTING AND RELATED MATERIALS FOR A COMPLETE OPERATIONAL SSTV SYSTEM AS SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS. CAMERAS SHALL MEET THE NATIONAL DEFENSE AUTHORIZATION ACT-NDAA.
29. PROVIDE CARD READERS, DOOR CONTROLLERS, TR KEYPADS FOR PHYSICAL ACCESS AND CONTROL SYSTEM (PACS), SOFTWARE, LICENSES, CONDUITS, JUNCTION BOXES, FIRE AND SMOKE RATED SLEEVE ASSEMBLIES, CABLING, COVER, JACKS, TERMINATIONS, COVER PLATES, LABELING, TESTING AND RELATED MATERIALS FOR A COMPLETE OPERATIONAL PACS SYSTEM AS SHOWN HEREIN AND AS DESCRIBED IN THE SPECIFICATIONS.
30. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL TESTING ASSOCIATED WITH TECHNOLOGY SYSTEM COMMISSIONING PER SPECIFICATIONS.
31. NEW NURSE CALL EQUIPMENT WILL NETWORK WITH THE EXISTING EQUIPMENT. NEW EMERGENCY PULL STATIONS, PATIENT STATIONS, AND CODE BLUE STATIONS WILL BE PROGRAMMED TO NOTIFY STAFF BOTH LOCALLY AND CAMPUS WIDE ACCORDING TO CODES, STANDARDS, AND VA REQUIREMENTS.
32. NEW SECURITY CAMERAS (SSTV CAMERAS) WILL CONNECT TO THE EXISTING VIDEO MANAGEMENT SOFTWARE AND WILL BE ABLE TO USE THE SAME ANALYTICAL FUNCTIONS AS THE EXISTING CAMERAS AS DETERMINED BY VA POLICE.

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

BICSI Andrew D Richards BICSI ID # 371721 EXPIRES 12-31-25 RCDD — 6/18/2025

SEAL 057626 NORTH CAROLINA PROFESSIONAL ENGINEER ANDREW D. RICHARDS — 6/18/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY GENERAL NOTES, SYMBOL LEGEND, AND ABBREVIATIONS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved:

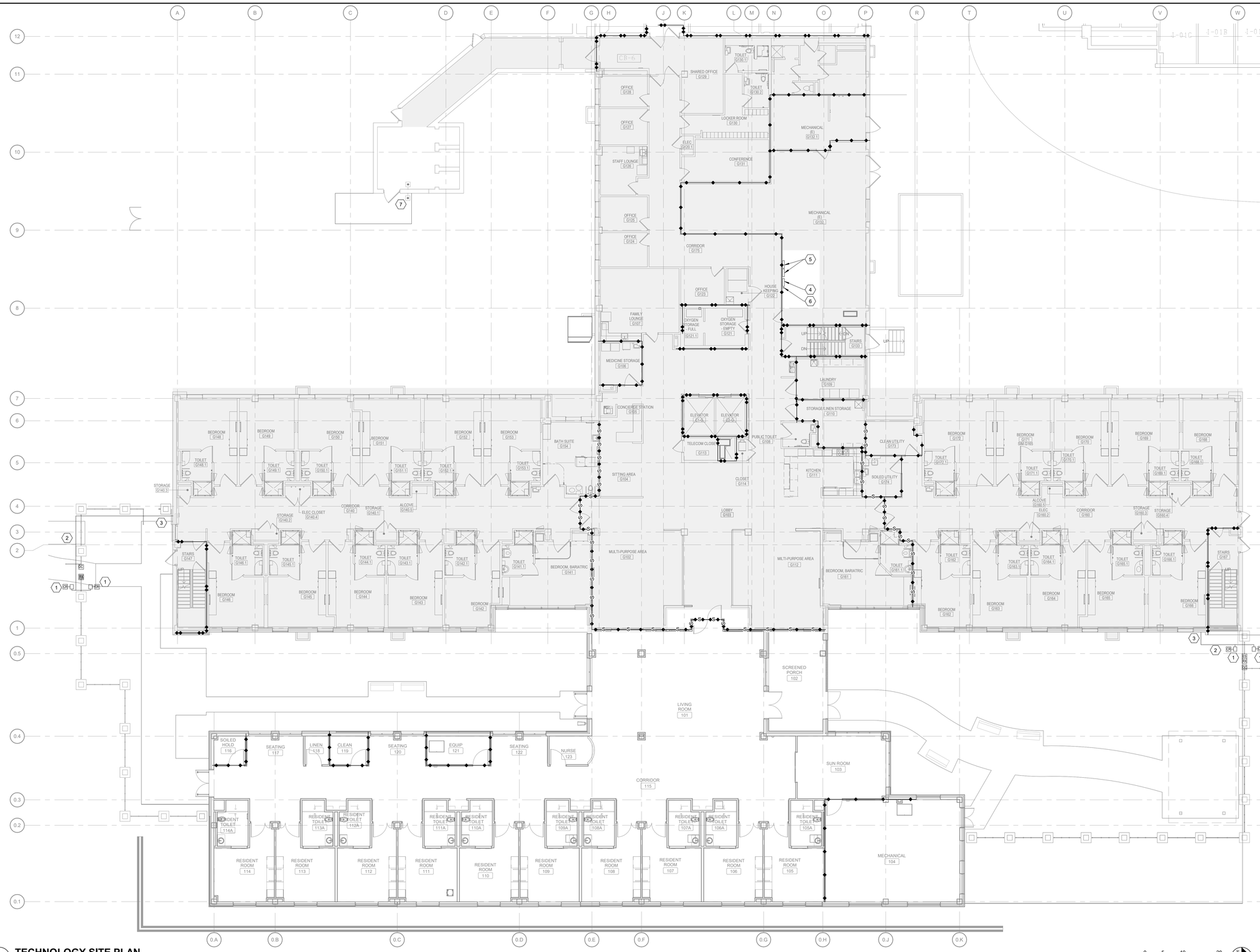
Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB

Drawing Number: T-001

Dwg 1 of 7

C:\Users\jwkeasley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwkeasley@acg-pa.com.rvt
6/17/2025 2:23:21 PM
VA FORM 08-6231

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B



1 TECHNOLOGY SITE PLAN

Scale: 1" = 10'-0"

0 5 10 20 NORTH

KEY NOTES:

1. PROVIDE NEW BOLLARD FOR DOOR SECURITY HARDWARE. PROVIDE PANIC HARDWARE FOR EMERGENCY EGRESS. PROVIDE WEATHER-PROOFING FOR BOTH DEVICES.
2. PROVIDE 1" UG CONDUIT ENCASED IN CONCRETE TO PIPE BASEMENT.
3. 1" CONDUIT INTO PIPE BASEMENT FOR GATE SECURITY HARDWARE. CONTINUE 1" CONDUIT INTO PIPE BASEMENT. PENETRATE EXTERIOR WALL. SEAL AREA AROUND WALL PENETRATION TO BE WATERTIGHT.
4. NEW PACS PANEL. ALL NEW CARD READERS TO TIE TO NEW PANEL. B.O.D. - SOFTWARE HOUSE CCURE 9000 VERSION 2.80.
5. EXISTING ALTRONIX/SOFTWARE HOUSE ISTAR PANELS.
6. CONTRACTOR TO CORE DRILL ONE (1) 2" FROM PIPE BASEMENT TO MECH ROOM G132 FOR GATE SECURITY HARDWARE. PROVIDE ONE (1) 2", UL LISTED FIRE SMOKE SLEEVE (BOD STI EZ PATH SERIES 44.)
7. RELOCATE PUSH BUTTONS AS NECESSARY TO ACCOMODATE NEW DOOR.

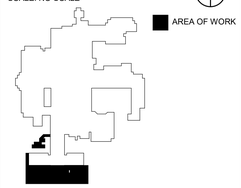
SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Bicsi Andrew D Richards BICSI ID # 371721 EXPIRES 12-31-25 RCDD

6/18/2025

NORTH CAROLINA PROFESSIONAL SEAL 057626 ENGINEER ANDREW D. RICHARDS

6/18/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

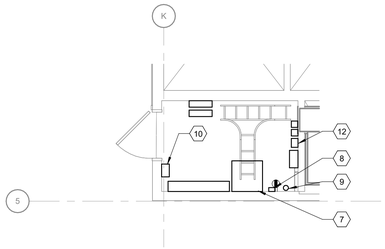
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	TECHNOLOGY SITE PLAN
Project Title	CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER	586-401
Building Number	# 7A
Location	G.V. MONTGOMERY VAMC 1500 E. WOODROW WILSON AVENUE JACKSON, MS 39216
Approved	
Date	JUNE 23, 2025
Checked	ADR
Drawn	JWB
Drawing Number	TS101
Dwg	2 of 7

C:\Users\jwbeasley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwbeasley@acg-pa.com.rvt
6/17/2025 2:23:23 PM
VA FORM 08-6231

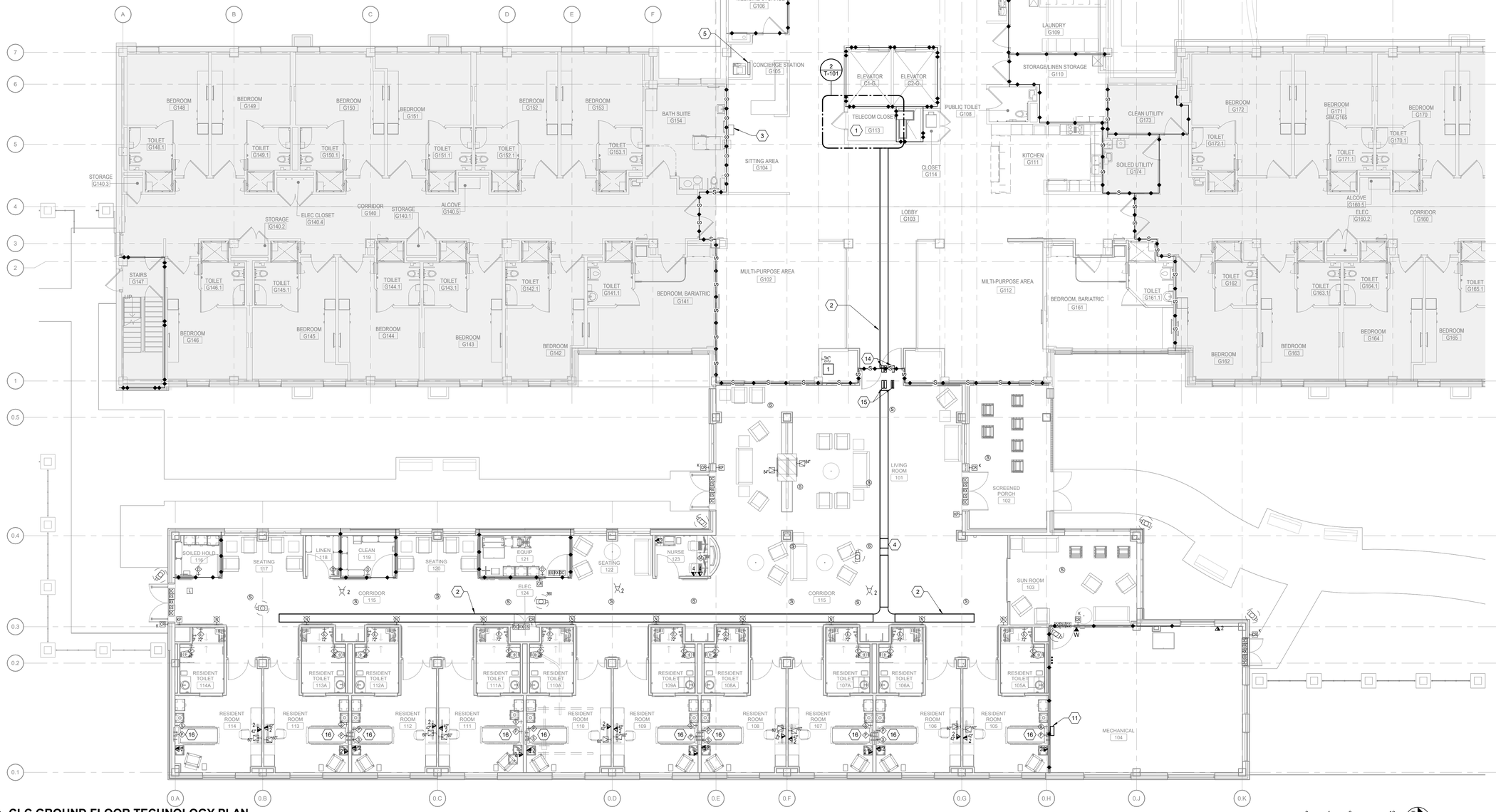
Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B



2 EXISTING TELECOM CLOSET G113 ENLARGEMENT

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

0 2 4 8 NORTH



1 CLC GROUND FLOOR TECHNOLOGY PLAN

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

0 4 8 16 NORTH

KEY NOTES:

1 EXISTING CARD READER TO BE DEMOLISHED.

KEY NOTES:

1 LOCATION OF EXISTING TELECOM ROOM
2 PROPOSED ROUTING OF NEW CABLE TRAY MOUNTED AT 11'-0" AFF FROM BOTTOM OF TRAY.
3 EXISTING WANDER GUARD CABINET
4 PROVIDE FITTINGS AND JUNCTIONS FOR CHANGE IN CABLE TRAY HEIGHT CORRESPONDING TO CHANGE IN CEILING HEIGHT.
5 EXISTING RAULAND R5 CABINET
6 EXISTING ALTRONIX/SOFTWARE HOUSE ISTAR PANELS.
7 EXISTING WALL MOUNTED TELECOM RACK. CONTRACTOR TO INSTALL (4) NEW 24 PORT PATCH PANELS IN SPACE IN EXISTING TELECOM RACK FOR NEW WORK.
8 PROVIDE FIBER CONVERTER FOR SSTV CAMERAS. USE EXISTING 120V POWER IN TELECOM CLOSET.
9 PROVIDE 4" CORE DRILL OPENINGS WITH APPROVED FIRE/SMOKE SLEEVE ASSEMBLIES (2HR) UP TO TR H-117 ABOVE FOR FIBER FOR SSTV CAMERAS.
10 EXISTING PACS PANEL.
11 PROPOSED LOCATION OF NEW NURSE CALL EQUIPMENT PANEL.
12 LOCATION OF SPARE CABLE TV PORTS. PROVIDE AMPLIFIER FOR SIGNAL IMPROVEMENT.
13 NEW PACS PANEL. ALL NEW CARD READERS TO TIE TO NEW PANEL. B.O.D. - SOFTWARE HOUSE CCURE 9000 VERSION 2.80.
14 PROVIDE THREE (3) 4". UL LISTED FIRE SMOKE SLEEVES (BOD STI EZ PATH SERIES 44.)
15 PROVIDE TWO (2) 4" AND TWO (2) 2". UL LISTED FIRE SMOKE SLEEVES (BOD STI EZ PATH SERIES 44.) FOR PENETRATION THOUGH CONCRETE BEAM. COORDINATE WITH STRUCTURAL DRAWINGS FOR PENETRATION DETAILS.
16 PROVIDE BOX EXTENDER (PLASTER RING) FOR NURSE CALL EQUIPMENT TO MOUNT FLUSH ON SURFACE OF HEADBOARD. REFERENCE I-201 FOR MORE INFORMATION.

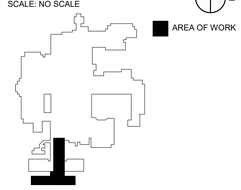
SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Andrew D Richards BICSI ID # 371721 EXPIRES 12-31-25 BICSI RCDD 6/18/2025

NORTH CAROLINA PROFESSIONAL SEAL 057626 ENGINEER ANDREW D. RICHARDS 6/18/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CLC GROUND FLOOR TECHNOLOGY PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

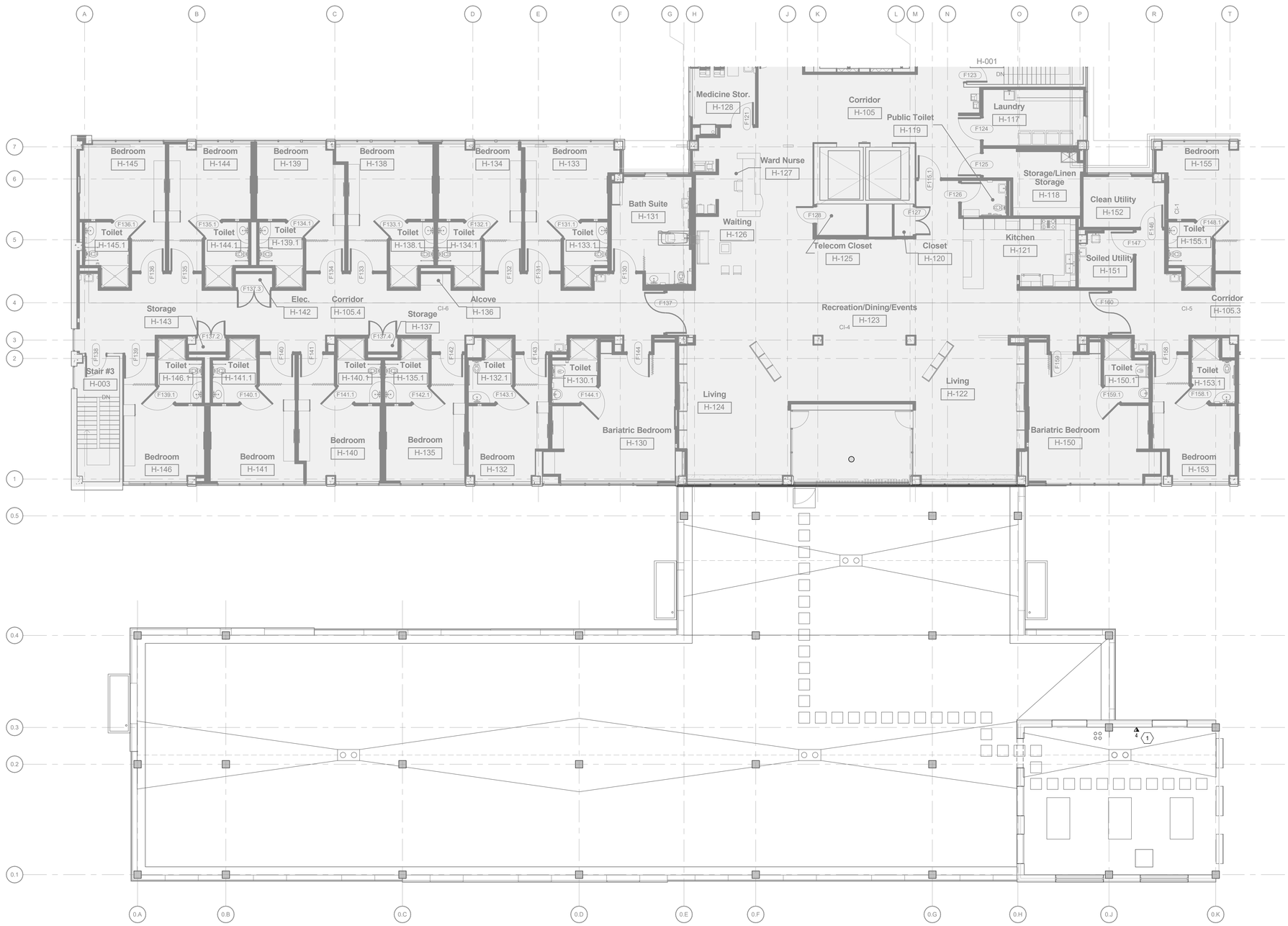
Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB

Drawing Number: T-101

Dwg 3 of 7

C:\Users\jwheatley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwheatley@acg-pa.com.rvt
6/17/2025 2:23:27 PM
VA FORM 08-6231

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B



KEY NOTES:

1 DATA OUTLET FOR DDC CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE WITH 12" X 8" NEMA 3R BOX.

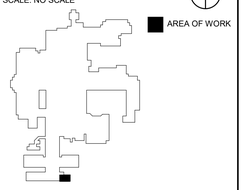
SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE



1 ROOF TECHNOLOGY SHEET

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

0 4 8 16 NORTH

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER Andrew D Richards BICSI ID # 371721 EXPIRES 12-31-25 RCDD — 6/18/2025

NORTH CAROLINA PROFESSIONAL SEAL 057626 ENGINEER ANDREW D. RICHARDS — 6/18/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511

www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF TECHNOLOGY PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB

Drawing Number: T-102

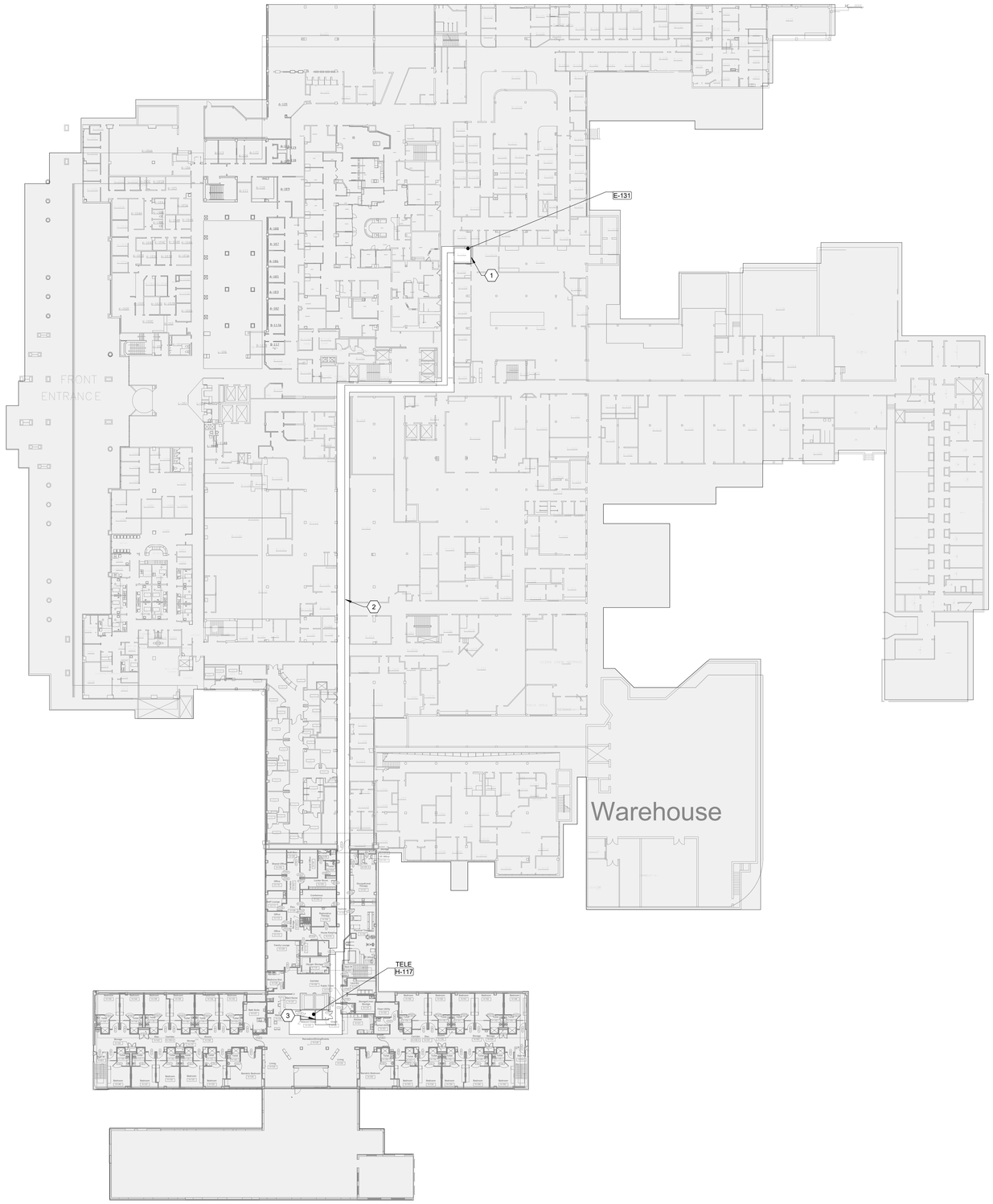
Dwg 4 of 7

C:\Users\jwheatley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwheatley@acg-pa.com.rvt

6/17/2025 2:23:28 PM

VA FORM 08-6231

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B



KEY NOTES:

1 LOCATION OF EXISTING SSTV HEADEND EQUIPMENT.
2 PROPOSED FIBER ROUTING.
3 PROVIDE 4" CORE DRILL OPENINGS WITH APPROVED FIRE/SMOKE SLEEVE ASSEMBLIES (2HR) DOWN TO TELECOM CLOSET G113 BELOW FOR FIBER FOR SSTV CAMERAS.

SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

1 FIRST FLOOR TECHNOLOGY PLAN
Scale: 1/32" = 1'-0"

0 16 32 64

NORTH

FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

BICSI Registered Communications Distribution Designer — Andrew D Richards, BICSI ID # 371721, Expires 12-31-25, RCDD — 6/18/2025

North Carolina Professional Engineer Seal 057626 — Andrew D. Richards — 6/18/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: FIRST FLOOR TECHNOLOGY PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved:

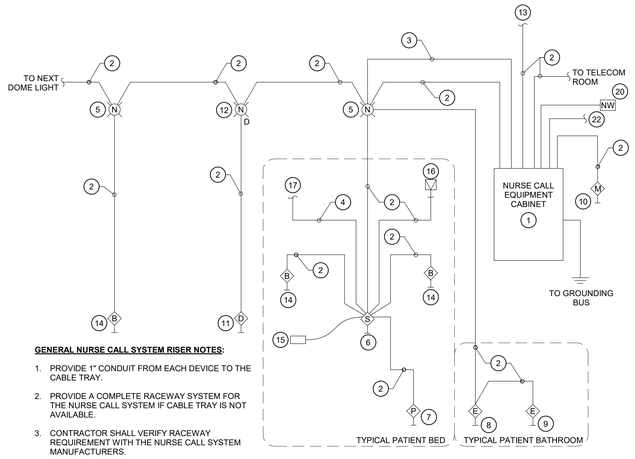
Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB

Drawing Number: T-103

Dwg 5 of 7

C:\Users\jwbeasley\Documents\E_23-060.VA Jackson-Construct CLC_R23_jwbeasley@acg-pa.com.rvt
6/17/2025 2:23:32 PM
VA FORM 08-6231

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B



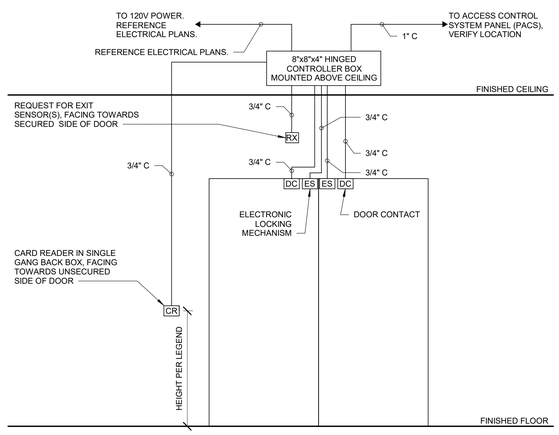
GENERAL NURSE CALL SYSTEM RISER NOTES:

1. PROVIDE 1" CONDUIT FROM EACH DEVICE TO THE CABLE TRAY.
2. PROVIDE A COMPLETE RACEWAY SYSTEM FOR THE NURSE CALL SYSTEM IF CABLE TRAY IS NOT AVAILABLE.
3. CONTRACTOR SHALL VERIFY RACEWAY REQUIREMENT WITH THE NURSE CALL SYSTEM MANUFACTURERS.
4. SYSTEM BASIS OF DESIGN SHOWN IS RAULAND RESPONDER 5.

(#) TYPICAL NURSE CALL SYSTEM RISER NOTES:

1. NURSE CALL EQUIPMENT CABINET
2. NURSE CALL CABLE, 4 PR CAT 6 OR PER MANUFACTURER'S RECOMMENDATIONS.
3. NURSE CALL POWER CABLE, 2-14 AWG IN 3/4" CONDUIT OR PER MANUFACTURER'S RECOMMENDATIONS. REQUIRED ON FIRST DOME LIGHT OR DOMELESS CONTROLLER OF EVERY SIX CONSECUTIVE DOME LIGHTS OR DOMELESS CONTROLLERS ON CHAIN.
4. LIGHTING CONTROL CABLE, 3-20 AWG IN 3/4" CONDUIT OR PER MANUFACTURER'S RECOMMENDATIONS.
5. NURSE CALL MULTI-COLOR DOME LIGHT.
6. NURSE CALL PATIENT BED STATION, SINGLE OR DUAL (SEE DRAWINGS FOR CONFIGURATION). IF CODE BLUE/CODE WHITE ARE INTEGRATED INTO BED STATION, EXTERNAL DEVICES FOR CODE BLUE/CODE WHITE ARE NOT REQUIRED AT THAT STATION.
7. NURSE CALL PATIENT BED INTERFACE RECEPTACLE (VERIFY BED TYPE).
8. NURSE CALL EMERGENCY STATION PULL CORD STATION (WITH AUDIO).
9. NURSE CALL SHOWER EMERGENCY STATION WITH PULL CORD STATION (WITHOUT AUDIO).
10. NURSE CALL MASTER CONSOLE STATION (TOUCH SCREEN).
11. NURSE CALL DUTY/STAFF STATION (SEE DRAWINGS FOR MORE INFORMATION).
12. NURSE CALL DOMELESS CONTROLLER (SEE DRAWINGS FOR MORE INFORMATION).
13. TO OTHER NURSE CALL EQUIPMENT CABINET(S).
14. NURSE CALL CODE STATION (SEE DRAWINGS FOR MORE INFO). IF CODE STATIONS ARE INTEGRATED INTO BED STATION, EXTERNAL CODE STATION DEVICES ARE NOT REQUIRED AT THAT BED STATION.
15. NURSE CALL PILLOW SPEAKER AND CONTROLS (PATIENT ENTERTAINMENT, LIGHTING, AND OTHER SYSTEMS PER VA).
16. PATIENT ROOM TV (GOVERNMENT FURNISHED AND INSTALLED).
17. PATIENT ROOM LIGHTING.
18. NOT USED.
19. NOT USED.
20. NURSE CALL WIRELESS ANTENNA.
21. NOT USED.
22. PROVIDE INTEGRATION WITH THE FOLLOWING:
    - A. HOSPITAL SIP PHONE SYSTEM.
    - B. RTLS SYSTEM.
    - C. SPEAKERS & ROOM DEVICE CONTROL.
    - D. PATIENT ROOM LIGHTING.
    - E. PATIENT ENTERTAINMENT SYSTEMS.
    - F. POCKET PAGERS.
    - G. HL7/ADT.
    - H. OTHER SYSTEMS AS IDENTIFIED IN SPECS.

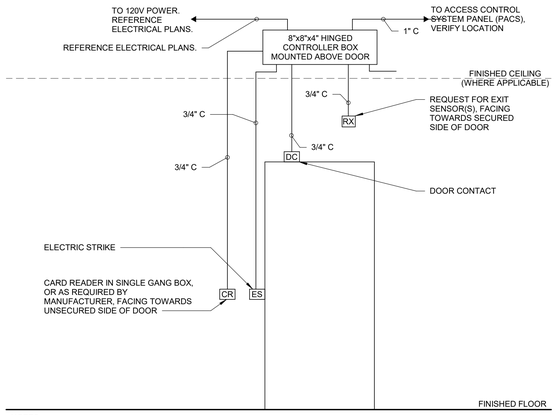
9 NURSE CALL RISER DIAGRAM
Scale: No Scale



NOTES:

1. CONTRACTOR SHALL PROVIDE CONDUIT, BOXES, AND SUPPORTS. COORDINATE AND VERIFY LOCATIONS WITH COR/VA.
2. PROVIDE CABLING PER MANUFACTURER'S RECOMMENDATION.
3. COORDINATE PER ARCHITECTURAL PLANS & DOOR HARDWARE SCHEDULE. INDICATED AS GENERAL. PROVIDE AS INDICATED ON PLANS

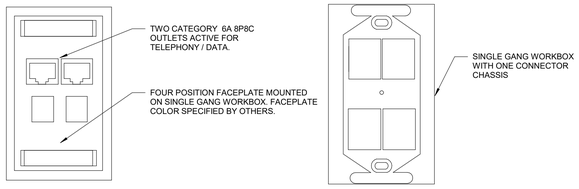
11 DOUBLE DOOR CARD ACCESS
Scale: No Scale



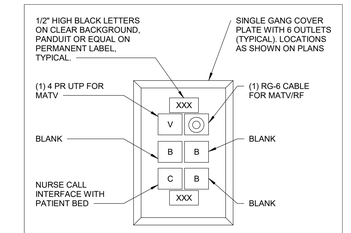
NOTES:

1. CONTRACTOR SHALL PROVIDE CONDUIT, BOXES, AND SUPPORTS. COORDINATE AND VERIFY LOCATIONS WITH COR/VA.
2. PROVIDE CABLING PER MANUFACTURER'S RECOMMENDATION.
3. COORDINATE PER ARCHITECTURAL PLANS & DOOR HARDWARE SCHEDULE. DOOR HARDWARE INDICATED AS GENERAL REQUIREMENT. PROVIDE AS INDICATED ON PLANS AND PER HARDWARE SCHEDULE.

10 SINGLE DOOR CARD ACCESS
Scale: No Scale



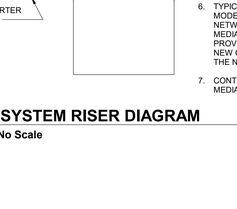
2 STANDARD DENSITY WALL MOUNTED WORK AREA OUTLET CONFIGURATION.AB
Scale: No Scale



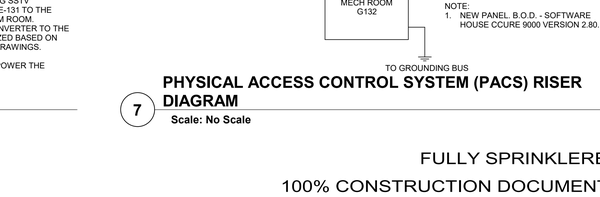
DETAIL NOTES:

A. ALL EQUIPMENT AND INSTALLATION SHALL BE APPROVED BY VAMC IT DEPARTMENT.

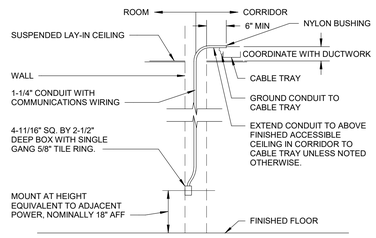
1 MATV FACEPLATE
Scale: No Scale



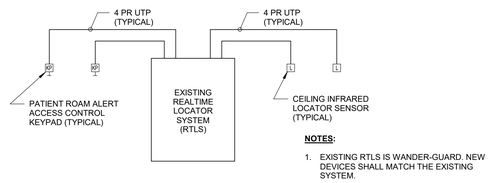
4 TYPICAL WALL MOUNT PHONE VoIP OUTLET
Scale: No Scale



3 TYPICAL HIGH DENSITY WALL MOUNTED WORK AREA OUTLET CONFIGURATION
Scale: No Scale



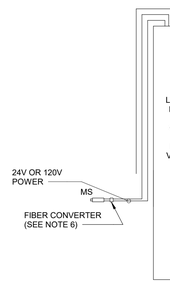
6 TELECOMMUNICATIONS OUTLET INSTALLATION IN NEW WALLS
Scale: No Scale



NOTES:

1. EXISTING RTLS IS WANDER-GUARD. NEW DEVICES SHALL MATCH THE EXISTING SYSTEM.

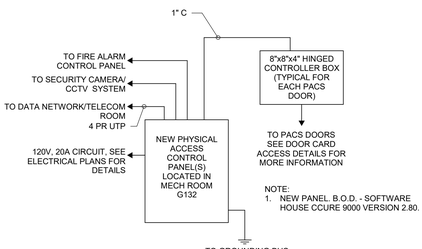
5 REALTIME LOCATOR SYSTEM (RTLS) RISER DIAGRAM
Scale: No Scale



NOTES:

1. 4 PR UTP (<295')
2. FIBER (>295')
3. PROVIDE CONDUIT/RACEWAY SYSTEM FROM CAMERA TO CABLE TRAY.
4. ALL CAMERAS SHALL BE MULTI SENSOR AND SHALL MEET NDAA REQUIREMENT.
5. PROVIDE FIBER TO ETHERNET CONVERTER IN EXISTING TELECOM G113.
6. TYPICAL - FOR EACH CAMERA PROVIDE 4 STRAND 0M4 MULTI-MODE FIBER OPTIC CABLE FROM THE EXISTING SSTV NETWORK FIBER SWITCH LOCATED IN ROOM E-131 TO THE MEDIA CONVERTER IN THE EXISTING TELECOM ROOM. PROVIDE CAT 6A CABLE FROM THE MEDIA CONVERTER TO THE NEW CAMERAS. MEDIA CONVERTER TO BE SIZED BASED ON THE NUMBER OF CAMERAS SHOWN ON THE DRAWINGS.
7. CONTRACTOR TO PROVIDE A 1920W UPS TO POWER THE MEDIA CONVERTER. B.O.D. -

8 SSTV SYSTEM RISER DIAGRAM
Scale: No Scale



7 PHYSICAL ACCESS CONTROL SYSTEM (PACS) RISER DIAGRAM
Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI Andrew D Richards BICSI ID # 371721 EXPIRES 12-31-25 RCDD — 6/18/2025

NORTH CAROLINA PROFESSIONAL SEAL 057626 ENGINEER ANDREW D. RICHARDS — 6/18/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DETAILS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216

Approved:

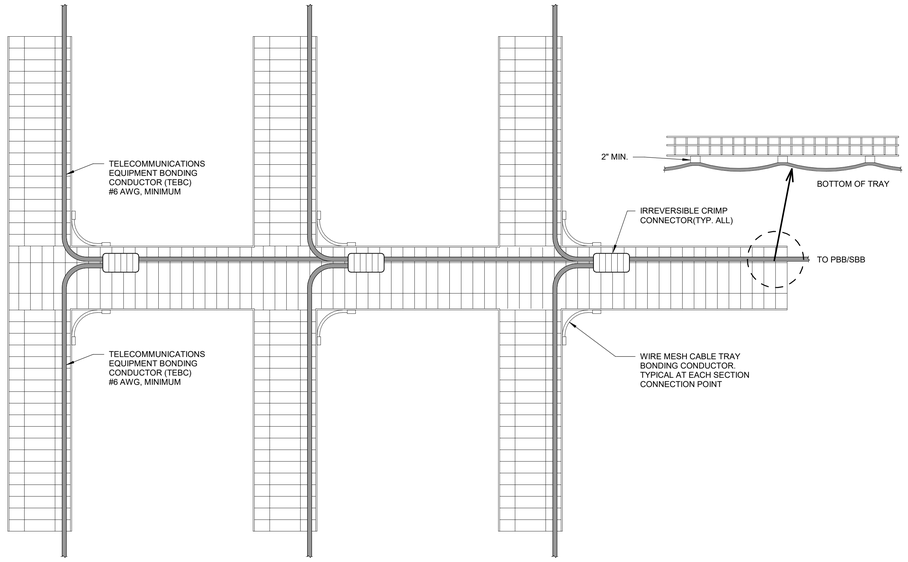
Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB

Drawing Number: T-501

Dwg 6 of 7

C:\Users\jwheezley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwheezley@acg-pa.com.rvt
6/17/2025 2:23:34 PM
VA FORM 08-6231

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B

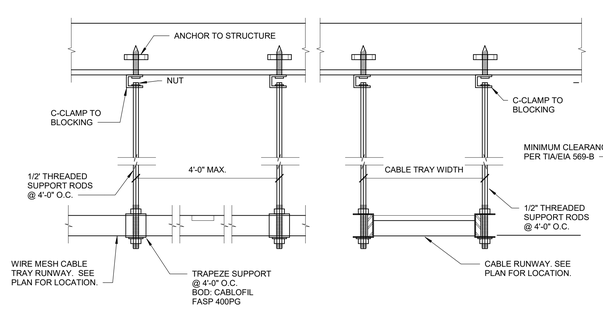


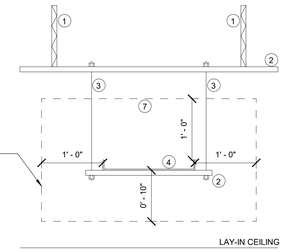
DETAIL NOTES:

1. TEBC SHALL BE MOUNTED TO THE WIRE MESH CABLE TRAY IN SUCH A WAY, THAT THERE IS A MINIMUM OF 2" OF SEPARATION BETWEEN THE NETWORK CABLING AND THE BONDING CONDUCTOR.

2 TYPICAL WIRE MESH CABLE TRAY BONDING DETAIL

Scale: No Scale





DETAIL NOTES:

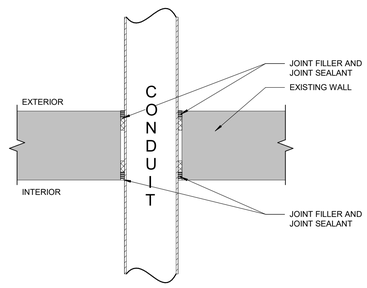
1. DETAIL BASED ON 75 LBS RATED CAPACITY.
2. PROVIDE A MINIMUM OF 12" ABOVE THE CABLE TRAY PER TIA/EIA 569-B PARAGRAPH 4.5.6.2. CONTRACTOR TO NOTIFY COR WHEN CLEARANCE DIMENSIONS CANNOT BE MET.

(#) NOTES:

1. BUILDING STRUCTURE.
2. TRAPEZE SUPPORT.
3. THREADED SUPPORT ROD WITH BUSHING AND NUTS.
4. WIRE MESH CABLE TRAY.

1 WIRE MESH CABLE TRAY SUPPORT ELEVATION DETAIL

Scale: No Scale



3 CONDUIT WALL PENETRATION DETAIL

Scale: No Scale

FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

RCDD Andrew D Richards BICSI ID # 371721 Expires 12-31-25 — 6/18/2025

North Carolina Professional Engineer Seal 057626 Andrew D. Richards — 6/18/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: TECHNOLOGY DETAILS

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved

Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB

Drawing Number: T-502

Dwg 7 of 7

C:\Users\jwbeasley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwbeasley@acg-pa.com.rvt
6/17/2025 2:23:35 PM

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

OUTPUT → / INPUT DEVICE ↓

INPUT DEVICE	1. SOUND GENERAL BUILDING ALARM FOR OTHER THAN RESIDENTIAL (NON-HEALTHCARE). SEE SECTION 7.2.1	2. NOTIFY NECESSARY STAFF FOR RESPONSE FOR HEALTHCARE AND RESIDENTIAL BUILDINGS ONLY (ALARM SIGNAL MAY BE DIFFERENT ON DIFFERENT FLOORS).	3. NOTIFY FIRE DEPARTMENT	4. INITIATE SUPERVISORY SIGNAL TO A 24-HOUR MANNED LOCATION FOR IMMEDIATE RESPONSE.	5. CLOSE ASSOCIATE SMOKE RATED DOORS ON THE FLOOR.	6. CLOSE DAMPERS ON PATH OF TRAVEL TO DETECTOR.	7. SHUT DOWN AIR HANDLER SERVED BY THE DETECTOR.	8. RECALL ELEVATOR.	9. INITIATE ELEVATOR SHUT DOWN AND DISCONNECT ELEVATOR POWER.	10. OPEN *LOCKED EGRESS DOORS ON FLOOR OF FIRE ORIGIN.	11. DISCONNECT FUEL SOURCE FROM COOKING EQUIPMENT.
DUCT SMOKE DETECTOR *				X[b]		X	X[a]				
AREA SMOKE DETECTOR *	X	X	X		X	X				X	
DOOR RELEASE SMOKE DETECTOR *	X	X	X		X	X				X	
MANUAL PULL STATION	X	X	X		X					X	

* WHILE NFPA 101 DOES NOT REQUIRE SOME DETECTORS TO NOTIFY BUILDING OCCUPANTS, VA REQUIRES ALL SMOKE DETECTORS, OTHER THAN DUCT SMOKE DETECTORS, TO NOTIFY BUILDING OCCUPANTS AS REQUIRED BY THE LIFE SAFETY CODE OR ITS REFERENCES.
** THOSE DOORS THAT ARE REQUIRED TO BE TIED TO THE FIRE ALARM SYSTEM SUCH AS DELAYED EGRESS AND ACCESS CONTROLLED DOORS.
a - DO NOT PROVIDE DUCT DETECTORS IN DEDICATED (100%) EXHAUST FANS. THEY SHOULD CONTINUE TO RUN.
b - THE FACILITY IS PERMITTED TO SOUND GENERAL ALARM OR NOTIFY NECESSARY STAFF IN LIEU OF INITIATING A SUPERVISORY SIGNAL TO BE CONSISTENT WITH THE OPERATION OF EXISTING SYSTEMS.

FIRE ALARM SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION	
F	42"-48"	FIRE ALARM PULL STATION	
S	90"	FIRE ALARM SPEAKER	
	90"	FIRE ALARM STROBE	XX - cd
S	90"	FIRE ALARM SPEAKER AND STROBE	XX - cd XX - W
DH	WALL	FIRE ALARM DOOR OPEN HOLDER	
P S	CEILING	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR	
S	CEILING	FIRE ALARM SMOKE DETECTOR	
H	CEILING	FIRE ALARM HEAT DETECTOR	
S	CEILING	FIRE ALARM CEILING MOUNTED SPEAKER	
S		FIRE ALARM DUCT SMOKE DETECTOR	
FACP	6'	FIRE ALARM CONTROL PANEL	
NAC	6'	FIRE ALARM NAC PANEL	
FAA	6'	FIRE ALARM ANNUNCIATOR PANEL	
GAP	6'	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL	
FS		FLOW SWITCH	
TS		TAMPER SWITCH	
PIV		POST INDICATOR VALVE	
RTS	6'	REMOTE LIGHT/TEST SWITCH FOR DUCT DETECTORS	
F	90"	FIRE ALARM BELL	
KB	60"	KNOX BOX	
R	60"	RELAYS	

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
TOP: HEIGHT TO TOP OF DEVICE
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERSEDE THOSE LISTED HERE.

FIRE ALARM ABBREVIATIONS LIST

ACC	ACCESSIBLE	N	NEW
ACLG	ABOVE CEILING	NAC	NETWORK APPLIANCE CIRCUIT PANEL
A/E	ARCHITECT/ENGINEER	NCA	NETWORK CONTROL ANNUNCIATOR
AFF	ABOVE FINISHED FLOOR	NS	NO SCALE
AHJ	AUTHORITY HAVING JURISDICTION	NTS	NOT TO SCALE
AHU	AIR HANDLING UNIT		
AL	ALUMINUM	OC	ON CENTER
ALT	ALTERNATE	OD	OUTSIDE DIAMETER
AMP	AMPERE	OH	OVERHEAD
APPROX	APPROXIMATELY		
ARCH	ARCHITECT, ARCHITECTURAL	PA	PUBLIC ADDRESS
AUTO	AUTOMATIC	PB	PULL BOX OR PUSHBUTTON
AUX	AUXILIARY	PIV	POST INDICATING VALVE
AV	AUDIO VISUAL	PVC	POLYVINYL CHLORIDE (CONDUIT)
BOD	BASIS OF DESIGN	QTY	QUANTITY
C	CONDUIT	R	REMOVE AND REINSTALL IN NEW LOCATION
CAB	CABINET	RCP	REFLECTED CEILING PLAN
cd	CANDELA	REQD	REQUIRED
CD	CONSTRUCTION DOCUMENTS	RGS	RIGID GALVANIZED STEEL
CF	CONTRACTOR-FURNISHED	RM	ROOM
CKT	CIRCUIT		
CLG	CEILING	SC	SURFACE CONDUIT
CO	CONTRACTING OFFICER	SF	SQUARE FEET/FOOT
COR	CONTRACTING OFFICER'S REPRESENTATIVE	SHT	SHEET
		SI	INTERNATIONAL SYSTEM OF UNITS
dB	DECIBEL	SIM	SIMILAR
DEMO	DEMOLITION	SPEC	SPECIFICATION
DN	DOWN	SPKR	SPEAKER
DVC	DIGITAL VOICE COMMAND	SR	SURFACE RACEWAY
		SS	STAINLESS STEEL
E	EXISTING	STD	STANDARD
ELEV	ELEVATOR	SURF	SURFACE MOUNTED
ETR	EXISTING TO REMAIN	SYM	SYMMETRICAL
		SYS	SYSTEM
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL	TC	TIMECLOCK
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TEL	TELEPHONE
FAGAP	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL	TP	TWISTED PAIR
FO	FIBER OPTIC	TPS	TWISTED PAIR SHIELDED
		TR	TAMPER RESISTANT
J-BOX	JUNCTION BOX	TYP	TYPICAL
MAX	MAXIMUM	UG	UNDERGROUND
MC	MECHANICAL CONTRACTOR	UL	UNDERWRITER'S LABORATORY
	METAL-CLAD (CONDUIT)	UTP	UNSHIELDED TWISTED PAIR
MECH	MECHANICAL		
MFR	MANUFACTURER	VD	VOLTAGE DROP
MIN	MINIMUM		
MISC	MISCELLANEOUS	W	WATT
MT	MOUNT		

WALL RATING LEGEND

1 HOUR FIRE SEPARATION

2 HOUR FIRE SEPARATION

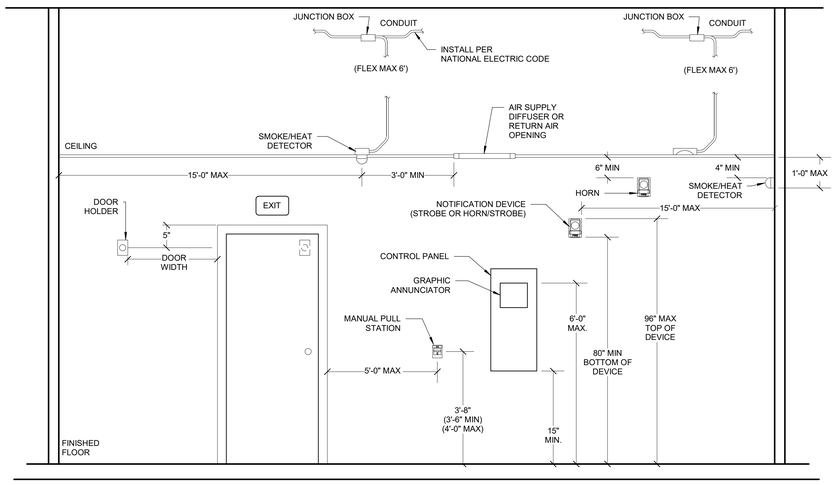
1 HOUR SMOKE RATED

GENERAL FIRE ALARM NOTES

1. PROVIDE FIRE ALARM SYSTEM AND COMPONENTS COMPLYING WITH THE LATEST:
   A. NFPA 13- STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
   B. NFPA 70 NATIONAL ELECTRICAL CODE.
   C. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE.
   D. NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS.
   E. NFPA 101 LIFE SAFETY CODE.
   F. VA FIRE PROTECTION DESIGN MANUAL.
   G. ANSI S3.41 AUDIBLE EMERGENCY EVACUATION SIGNAL.
2. FIRE ALARM SYSTEM SHALL COMPLY WITH FACTORY MUTUAL RESEARCH CORPORATION (FM).
3. PROVIDE FIRE ALARM WIRING IN CONDUIT, FACTORY PAINTED RED.
4. BEFORE STARTING WORK, TEST EXISTING FIRE ALARM SYSTEM IN WORK AREA AND ADJACENT AREAS.
5. NOTIFY COR REGARDING DEFICIENCIES AND NON-OPERATING COMPONENTS. VA WILL MAKE REPAIRS.
6. CONTRACTOR TO ENSURE THAT ALL NEW FIRE ALARM SPEAKERS, TONES, AND STROBES ARE IN-SYNC WITH ALL ADJACENT AREAS BEYOND THE AREA OF WORK. WHEN WORK IS COMPLETE, TEST EXISTING FIRE ALARM SYSTEM IN WORK AREA AND ADJACENT AREAS.
7. MAKE REPAIRS TO RESOLVE INCORRECT SYSTEM OPERATIONS AT NO ADDITIONAL COST.
8. THE FIRE ALARM SYSTEM VENDOR/CONTRACTOR SHALL TERMINATE, TEST AND PROGRAM ALL NEW FIRE ALARM DEVICES. COORDINATE WITH COR.
9. CONNECT SPRINKLER SYSTEM SUPERVISORY DEVICES TO THE FIRE ALARM SYSTEM. COORDINATE LOCATION WITH THE SPRINKLER CONTRACTOR.
10. CONNECT ALL ELECTROMAGNETIC DOOR HOLD OPEN DEVICES TO THE FIRE ALARM SYSTEM. COORDINATE WITH THE DOOR HARDWARE CONTRACTOR.
11. PROVIDE RELAY CONTROL MODULES FOR PACS, COORDINATE WITH PHYSICAL ACCESS CONTROL SYSTEM (PACS), CONTRACTOR AND COR.
12. THE OPERABLE PART OF A MANUAL ACTUATED ALARM INITIATING DEVICE SHALL BE NOT LESS THAN 42" (1.07M) AND NOT MORE THAN 48" (1.22M) FROM FINISH FLOOR.
13. FOR LOCATION (CORRIDOR, ROOM OR ADJACENT SPACE) WITH TWO OR MORE VISIBLE FIRE ALARM NOTIFICATION APPLIANCES WITHIN THE FIELD OF VIEW, PROGRAM VISIBLE TO FLASH IN SYNCHRONIZATION.
14. PROVIDE NEW FIRE ALARM SYSTEM DEVICES, FIRE ALARM PANEL, NAC PANEL, POWER SUPPLY, FOR A COMPLETE FIRE AND DETECTION SYSTEM. RED CONDUIT AND JUNCTION BOXES, COVERPLATES, LABELING, CABLING BOTH COPPER AND FIBER, PROGRAMMING, SOFTWARE, LICENSES, FIRE AND SMOKE RATED SLEEVE ASSEMBLIES, CABLING, COVER, JACKS, TERMINATIONS, TESTING AND RELATED MATERIALS FOR SPECIFICATIONS.0
15. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL TESTING ASSOCIATED WITH FIRE PROTECTION SYSTEM COMMISSIONING PER SPECIFICATIONS.

ALTERNATE NOTES

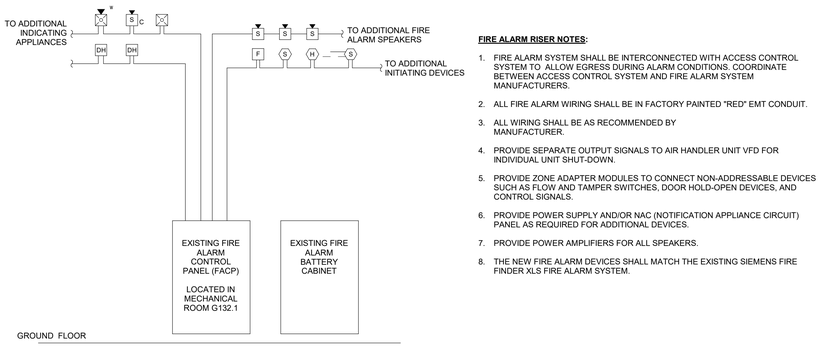
BID DEDUCT ALTERNATE #1
ALL WORK IN CONTRACT EXCEPT CHANGE FENCE AND PYLONS TO METAL FENCE OR UTILIZE EXISTING FENCE. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #2
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 AND SUBSTITUTE BRICK IN PLACE OF RAINSCREEN. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #3
ALL WORK IN CONTRACT EXCEPT DEDUCT #1, #2 AND OMIT SHADE PERGOLA, INCLUDING ASSOCIATED LIGHTS, RECEPTACLES, SWITCHES, AND OTHER ELECTRICAL COMPONENTS. SEE SHEETS ES101, A-101.1.
BID DEDUCT ALTERNATE #4
ALL WORK IN CONTRACT EXCEPT DEDUCT #1, #2, #3 AND REMOVE SCREEN SYSTEM AT FIRST-FLOOR PORCH. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #5
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #4 AND REMOVE SCREEN SYSTEM AT GROUND FLOOR PORCH. SEE SHEET A-201.1.
BID DEDUCT ALTERNATE #6
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #5 AND OMIT LANDSCAPE/HARDSCAPE IN THE SOUTHERN COURTYARD. SEE SHEET A101.1.
BID DEDUCT ALTERNATE #7
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #6 AND ELIMINATE SCREEN PORCH, INCLUDING ASSOCIATED LIGHT FIXTURES, LIGHTING CONTROLS, RECEPTACLES, AND NOTIFICATION DEVICES. INSTALL LIGHT FIXTURE M1E AT DOUBLE DOORS EXITING THE BUILDING. INSTALL PULL STATION AT DOUBLE DOORS EXITING THE BUILDING. SEE SHEETS EL101, EP101, AND FA101.
BID DEDUCT ALTERNATE #8
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #7 AND ELIMINATE LANDSCAPE LIGHTING, INCLUDING LIGHT FIXTURES AND LIGHTING CONTROLS. SEE SHEET ES101.
BID DEDUCT ALTERNATE #9
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #8 AND OMIT CANOPIES. SEE SHEET A-105.
BID DEDUCT ALTERNATE #10
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #9 AND ELIMINATE NORTH COURTYARD. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #11
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #10 AND REDUCE LANDSCAPING, TREE, AND SHRUB CALIPERS. SEE SHEET A-101.1.
BID DEDUCT ALTERNATE #12
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #11 AND ELIMINATE THIRD CHILLER, INCLUDING ASSOCIATED BREAKER, DISCONNECT, AND WIRING. SEE SHEET E-401.
BID DEDUCT ALTERNATE #13
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #12 AND MOVE CEILING LIFTS TO ACTIVATION BUDGET. SEE SHEET A-104.1.
BID DEDUCT ALTERNATE #14
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #13 AND PLACE WINDOW SHADES IN THE ACTIVATION BUDGET.
BID DEDUCT ALTERNATE #15
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #14 AND ELIMINATE WINDOW SOFFITS AND SOLID SURFACE SILLS. SEE SHEET A-512 DETAIL 10.
BID DEDUCT ALTERNATE #16
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #15 AND SHELL FIVE RESIDENT ROOMS. INSTALL ELECTRICAL WIRING, BOXES, SWITCHES AS SHOWN, EXCLUDING LIGHT FIXTURES C1 AND D2. INSTALL LIGHT FIXTURE F1 AND CIRCUIT TO WALL SWITCH PER DETAIL 5/E-401. SEE SHEET EL101.
BID DEDUCT ALTERNATE #17
ALL WORK IN CONTRACT EXCEPT DEDUCT #1 THROUGH #16 AND ELIMINATE BENCHES. SEE SHEET A-101.1.



NOTES:

1. MOUNT ALL AUDIBLE & VISUAL DEVICES IN APPROVED BOXES.
2. ALL ABOVE CEILING DEVICES TO BE MOUNTED IN ACCESSIBLE LOCATION.

2 FIRE ALARM DEVICE MOUNTING HEIGHTS
Scale: No Scale



FIRE ALARM RISER NOTES:

1. FIRE ALARM SYSTEM SHALL BE INTERCONNECTED WITH ACCESS CONTROL SYSTEM TO ALLOW EGRESS DURING ALARM CONDITIONS. COORDINATE BETWEEN ACCESS CONTROL SYSTEM AND FIRE ALARM SYSTEM MANUFACTURERS.
2. ALL FIRE ALARM WIRING SHALL BE IN FACTORY PAINTED "RED" EMT CONDUIT.
3. ALL WIRING SHALL BE AS RECOMMENDED BY MANUFACTURER.
4. PROVIDE SEPARATE OUTPUT SIGNALS TO AIR HANDLER UNIT VFD FOR INDIVIDUAL UNIT SHUT-DOWN.
5. PROVIDE ZONE ADAPTER MODULES TO CONNECT NON-ADDRESSABLE DEVICES SUCH AS FLOW AND TAMPER SWITCHES, DOOR HOLD-OPEN DEVICES, AND CONTROL SIGNALS.
6. PROVIDE POWER SUPPLY AND/OR NAC (NOTIFICATION APPLIANCE CIRCUIT) PANEL AS REQUIRED FOR ADDITIONAL DEVICES.
7. PROVIDE POWER AMPLIFIERS FOR ALL SPEAKERS.
8. THE NEW FIRE ALARM DEVICES SHALL MATCH THE EXISTING SIEMENS FIRE FINDER XLS FIRE ALARM SYSTEM.

1 FIRE ALARM RISER
Scale: No Scale

FULLY SPRINKLERED
100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

Andrew D Richards BICSI ID # 371721 EXPIRES 12-31-25 — 6/18/2025

SEAL 057626 NORTH CAROLINA PROFESSIONAL ENGINEER ANDREW D. RICHARDS — 6/18/2025

PROJECT MANAGER
ACG Project Number 23-060

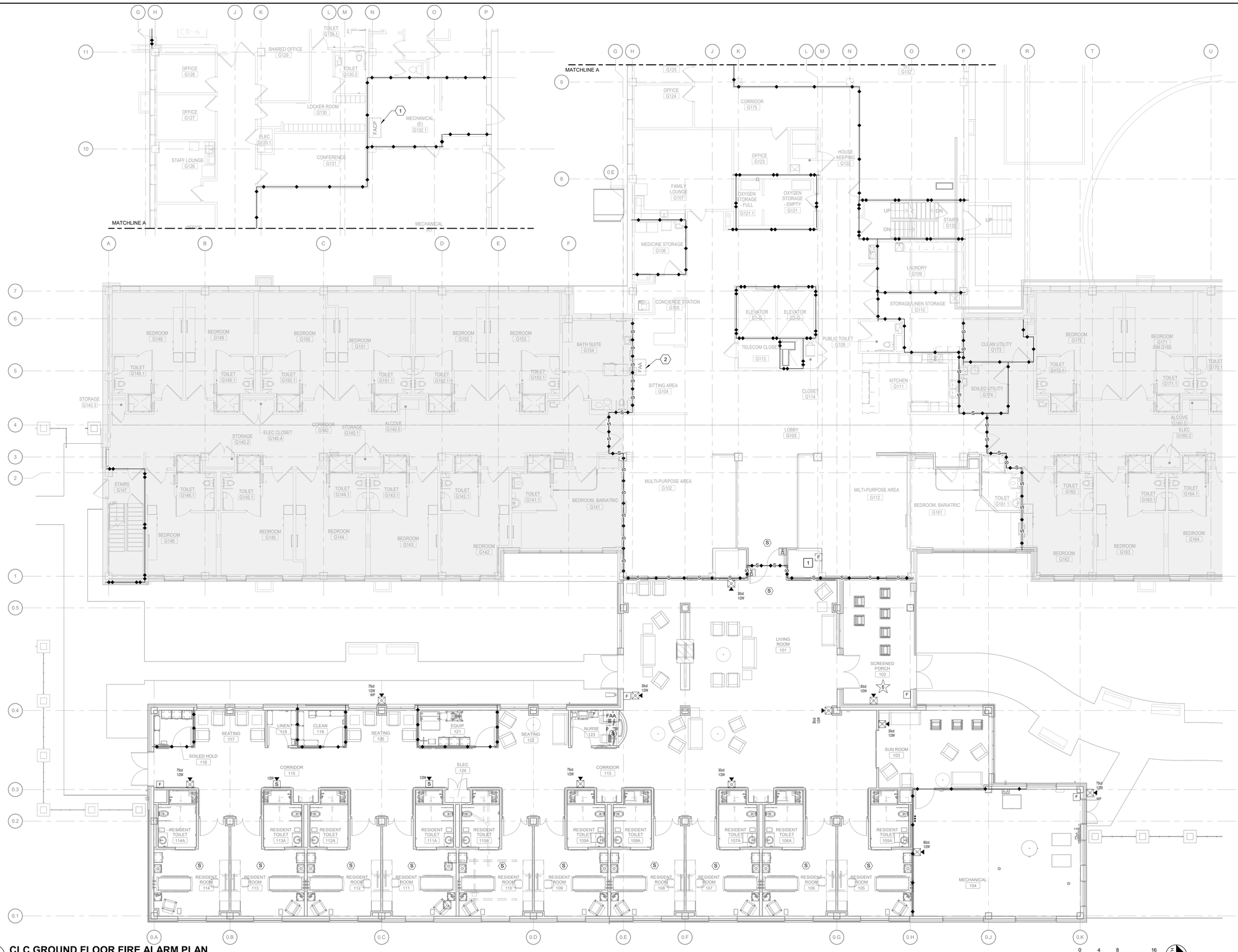
APOGEE Engineers | Architects
Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420
© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: FIRE ALARM GENERAL NOTES, SYMBOL LEGEND, AND RISER
Project Title: CLC RESIDENTIAL NEIGHBORHOOD
VA PROJECT NUMBER: 586-401
Building Number: # 7A
Location: G.V. MONTGOMERY VAMC, 1500 E. WOODROW WILSON AVENUE, JACKSON, MS 39216
Approved:
Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB
Drawing Number: FA001
Dwg 1 of 3

C:\Users\jwbeasley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwbeasley@acg-pa.com.rvt
6/17/2025 2:23:36 PM
VA FORM 08-6231

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B



1 CLC GROUND FLOOR FIRE ALARM PLAN
Scale: 1/8" = 1'-0"

KEY NOTES:

1 EXISTING FIRE ALARM PULL STATION TO BE DEMOLISHED.

KEY NOTES:

1 EXISTING FIRE ALARM CONTROL PANEL.
2 EXISTING FIRE ALARM ANNUCIATOR PANEL.

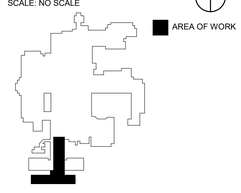
SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE



FULLY SPRINKLERED

100% CONSTRUCTION DOCUMENTS

#	Revisions:	Date

CONSULTANTS:

Bicsi — Andrew D Richards — BICSI ID # 371721 — Expires 12-31-25 — RCDD — 6/18/2025

North Carolina Professional Engineer Seal 057626 — Andrew D. Richards — 6/18/2025

PROJECT MANAGER

ACG Project Number: 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: CLC GROUND FLOOR FIRE ALARM PLAN

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Approved:

Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB

Drawing Number: FA101
Dwg 2 of 3

6/17/2025 2:23:40 PM C:\Users\jwbeasley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwbeasley@acg-pa.com.rvt

VA FORM 08-6231

Docusign Envelope ID: 6538E880-3D6C-4645-9AC7-43E7ACA9740B

1 **ROOF FIRE ALARM PLAN**
Scale: 1/8" = 1'-0"

0 5 10 20

NORTH

100% CONSTRUCTION DOCUMENTS

KEY NOTES:

1 CONTRACTOR TO CONNECT NEW FIRE ALARM DEVICE TO EXISTING FACP IN ROOM G132.1.

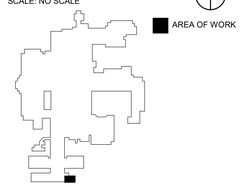
SCOPE OF WORK LEGEND

IN SCOPE

NOT IN SCOPE

KEY PLAN

SCALE: NO SCALE



FULLY SPRINKLERED

#	Revisions:	Date

CONSULTANTS:

Bicsi Andrew D Richards BICSI ID # 371721 Expires 12-31-25 RCDD 6/18/2025

North Carolina Professional Engineer Seal 057626 Andrew D. Richards 6/18/2025

PROJECT MANAGER

ACG Project Number 23-060

APOGEE Engineers | Architects

Headquarters:
Apogee Consulting Group, P.A.
1151 Kildaire Farm Road
Cary, North Carolina 27511
www.acg-pa.com 919-858-7420

© COPYRIGHT Apogee Consulting Group, P.A.

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ROOF FIRE ALARM PLAN

Location: G.V. MONTGOMERY VAMC
1500 E. WOODROW WILSON AVENUE
JACKSON, MS 39216

Project Title: CLC RESIDENTIAL NEIGHBORHOOD

VA PROJECT NUMBER: 586-401

Building Number: # 7A

Approved:

Date: JUNE 23, 2025 | Checked: ADR | Drawn: JWB

Drawing Number: FA102

Dwg 3 of 3

6/17/2025 2:23:41 PM C:\Users\jwkeszley\Documents\E_23-060-VA Jackson-Construct CLC_R23_jwkeszley@acg-pa.com.rvt