FIRE PROTECTION DEMOLITION GENERAL NOTES

1. REFER TO ALL DRAWINGS FOR COORDINATION BETWEEN DEMOLITION AND NEW WORK. COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES.
2. COORDINATE SALVAGE AND REUSE OF EXISTING EQUIPMENT WITH OWNER. ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
   A) PROTECTING, COVERING, AND SEALING EXISTING EQUIPMENT AND SURROUNDINGS DURING DEMOLITION FROM DIRT, DUST, AND DEBRIS.
   B) ENSURING THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION.
   C) PREVENTING INJURY TO PERSONS AND DAMAGE TO PROPERTY.
   D) PROVIDING ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE.
   E) REPAIRING DAMAGED PROPERTY TO ITS ORIGINAL CONDITION IMMEDIATELY AFTER THE DAMAGE OCCURS.
   F) TAKING EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
4. MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING AREAS OUTSIDE OF PRESENT SCOPE WITHOUT FIRST OBTAINING PERMISSION FROM OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED.
5. REMOVE AND DISPOSE OF EXISTING FIRE PROTECTION EQUIPMENT AS SHOWN, UNLESS NOTED OTHERWISE. COORDINATE WITH ARCHITECTURAL PLANS, AREAS OF DEMOLITION AROUND, ADJACENT, OR DISCHARGED TO EXISTING MECHANICAL EQUIPMENT THAT IS TO REMAIN.

FIRE PROTECTION GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
2. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. IN CASES OF CONFLICT BETWEEN MANUFACTURER REQUIREMENTS, DRAWINGS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
3. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
4. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
5. IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIRE STOPPED AT THE END OF THE WORK SHIFT, TEMPORARY FIRESTOPPING COMPOSED OF MINERAL WOOL SHALL BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.
6. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATIONS. COORDINATE LOCATION WITH FIRE PROTECTION INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
7. ROOMS THAT DO NOT HAVE CEILINGS (EXPOSED TO STRUCTURE) SHALL HAVE THE BRANCH PIPING MODIFIED TO TURN THE SPRINKLER HEAD UPRIGHT. PROVIDE SPRINKLER PROTECTION CAGE. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. ROOMS WITH FINISHED CEILINGS SHALL HAVE SPRINKLER LOCATIONS ADJUSTED AS NEEDED FOR APPROPRIATE COVERAGE PER LATEST EDITION OF NFPA 13.
9. HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND THE VA FIRE PROTECTION DESIGN GUIDE.
10. MODIFY EXISTING SPRINKLER SYSTEM WITHIN THE LIMITS OF CONSTRUCTION TO COMPLY WITH NFPA 13. PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS TO PROTECT SPACES WHERE CEILINGS ARE REMOVED FOR CONSTRUCTION UNTIL THE NEW CEILING IS INSTALLED AND NEW DROPS TO NEW PENDENT SPRINKLERS ARE INSTALLED. TEMPORARY SPRINKLERS ARE NOT REQUIRED IF NEW OR EXISTING CEILING IS IN PLACE AT THE END OF THE WORK SHIFT.
11. NFPA STANDARDS: FIRE-SUPPRESSION-SYSTEM,SPECIALTIES, ACCESSORIES, INSTALLATION, AND TESTING SHALL COMPLY WITH THE LATEST EDITION OF NFPA 13 "INSTALLATION OF SPRINKLER SYSTEMS."
12. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
13. SEISMIC PROVISIONS REQUIRED SEE SPECS.

PIPING SYSTEMS

FPD	FIRE PROTECTION DRY
FPO	FIRE PROTECTION OTHER
FPPA	FIRE PROTECTION PRE-ACTION
FPW	FIRE PROTECTION WET

PIPING SYMBOLS

- CONTINUATION
- DROP IN PIPE
- ELBOW
- TEE
- UNION
- TOP CONNECTION
- BOTTOM CONNECTION
- TOP CONNECTION, 45(DEG) OR 90° (DEG)
- BOTTOM CONNECTION, 45(DEG) OR 90° (DEG)
- PIPE UP
- PIPE DOWN
- VALVE (AS INDICATED OR SPECIFIED)
- CHECK VALVE
- BACKFLOW PREVENTER
- ZCV — ZONE CONTROL VALVE
- PUMP
- ALARM VALVE

ADDITIONAL SYMBOLS

- 2 / PL4 — DETAIL NUMBER; DRAWING NUMBER WHERE DRAWN
- A / PL7 — SECTION LETTER; DRAWING NUMBER WHERE SHOWN
- 26-P 3 — BUILDING NO. WHERE EQUIPMENT IS LOCATED; EQUIPMENT ABBREVIATION (PUMP); PUMP NO. 3 IN BUILDING NO. 26; TYPICAL UNIT NO.
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION

FIRE PROTECTION SYMBOLS

- PENDENT SPRINKLER
- UPRIGHT SPRINKLER WITH GUARD

ABBREVIATIONS

A/E:	ARCHITECT/ENGINEER
AFF:	ABOVE FINISH FLOOR
AFG:	ABOVE FINISH GRADE
AI:	ANALOG INPUT
AO:	ANALOG OUTPUT
ASJ:	ALL SERVICE JACKET
BACNET:	BUILDING AUTOMATION AND CONTROL NETWORK
BAS:	BUILDING AUTOMATION SYSTEM
BFP:	REDUCED PRESSURE BACKFLOW PREVENTER
BHP:	BRAKE HORSEPOWER
COR:	CONTRACTING OFFICER'S REPRESENTATIVE
CV:	CONTROL VALVE
CXA:	COMMISSIONING AGENT
DDC:	DIRECT DIGITAL CONTROL
DOE:	DEPARTMENT OF ENERGY
DWG:	DRAWING
E:	EXISTING
ECC:	ENGINEERING CONTROL CENTER AKA BAS
EL:	ELEVATION
EPA:	ENVIRONMENTAL PROTECTION AGENCY
F:	FAHRENHEIT
FDC:	FIRE DEPARTMENT (HOSE) CONNECTION
FS:	FLOW SWITCH
GAL:	GALLON
GPD:	GALLONS PER DAY
GPH:	GALLONS PER HOUR
GPM:	GALLONS PER MINUTE
HP:	HORSEPOWER
HZ:	HERTZ
ID:	INSIDE DIAMETER
INV:	INVERT
KW:	KILOWATT
KWH:	KILOWATT HOUR
LB:	POUND
MAX:	MAXIMUM
MFG:	MANUFACTURER
MIN:	MINIMUM
NC:	NORMALLY CLOSED
NFPA:	NATIONAL FIRE PROTECTION ASSOCIATION
NO:	NORMALLY OPEN
NOM:	NOMINAL
NPS:	NOMINAL PIPE SIZE
NTS:	NOT TO SCALE
OC:	ON CENTER
OD:	OUTSIDE DIAMETER
OR:	OPERATING ROOM
PD:	PRESSURE DROP OR DIFFERENCE
PG:	PRESSURE GAUGE
PID:	PROPORTIONAL-INTEGRAL-DIFFERENTIAL
PLC:	PROGRAMMABLE LOGIC CONTROLLERS
PPB:	PARTS PER BILLION
PPM:	PARTS PER MILLION
PRV:	PRESSURE REDUCING VALVE
PSI:	POUNDS PER SQUARE INCH
PSIA:	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG:	POUNDS PER SQUARE INCH GAUGE
RAD:	RADIANS
RPM:	REVOLUTIONS PER MINUTE
SF:	SQUARE FEET
SPEC:	SPECIFICATION
SQFT:	SQUARE FEET
STD:	STANDARD
TDH:	TOTAL DYNAMIC HEAD
TYP:	TYPICAL
V:	VOLT
VA:	VETERANS ADMINISTRATION
VAMC:	VETERANS ADMINISTRATION MEDICAL CENTER
VA TIL:	WWW.CFM.VA.GOV/TIL/INDEX.ASP
VHA:	VETERANS HEALTH ADMINISTRATION
VSD:	VARIABLE SPEED DRIVE
YCO:	YARD CLEANOUT
YH:	YARD HYDRANT

Revisions: | Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

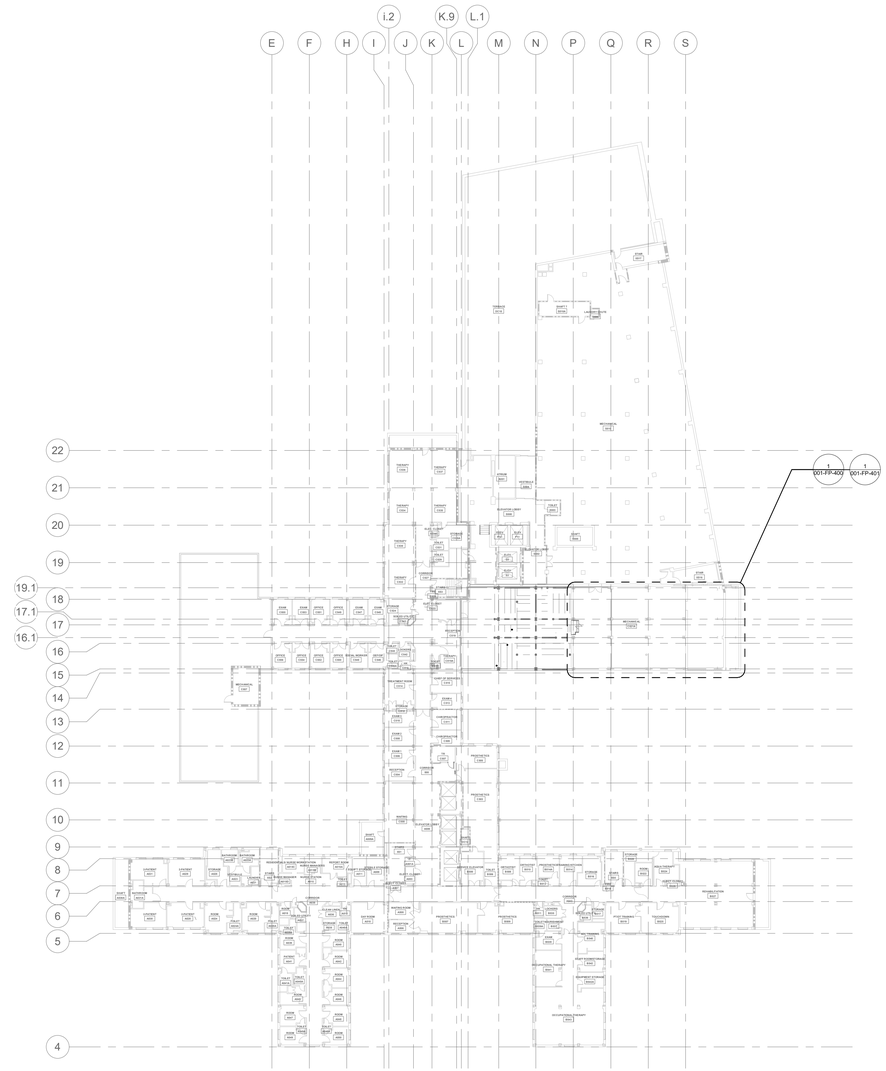
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	FIRE PROTECTION GENERAL NOTES
Phase	100% CONSTRUCTION DOCUMENTS
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	
Approved:	
Location	VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	FX-001
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_M-001_ME_SDB.rvt
8/20/2025 8:16:13 AM

VA FORM 08 - 6231



1 LEVEL 05 - FIRE PROTECTION - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

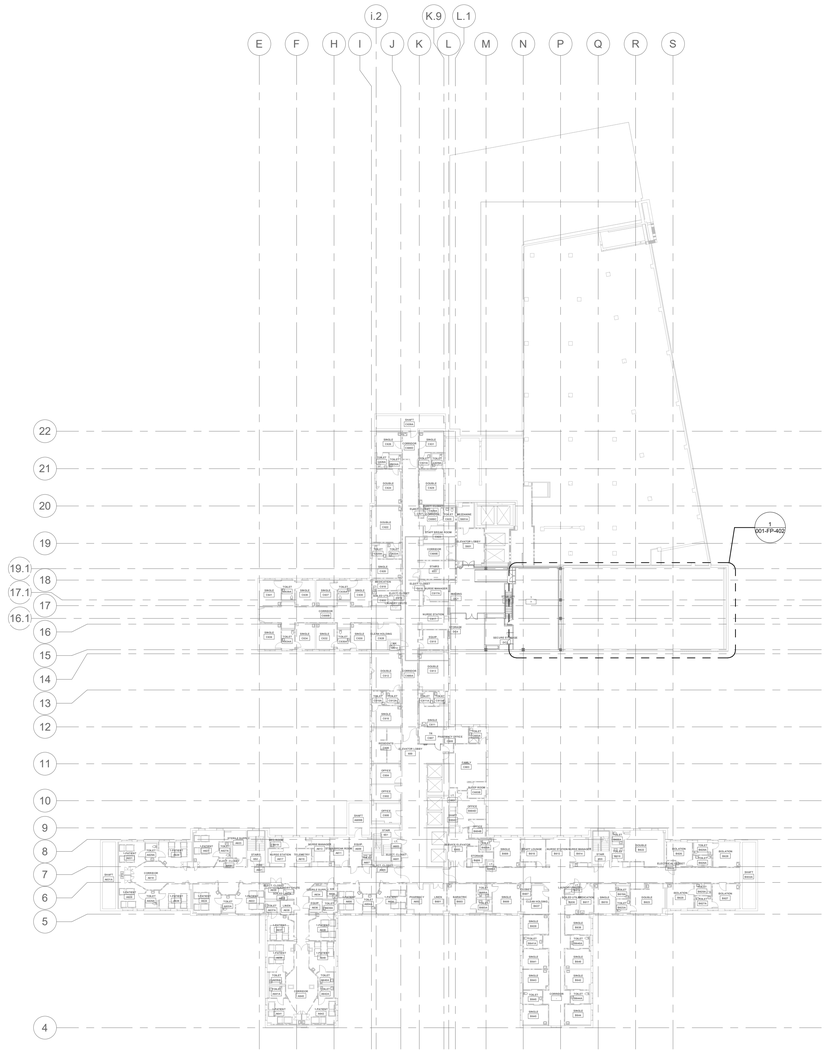
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 05 - OVERALL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Approved:	
	FULLY SPRINKLERED
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-FP-100
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:14:41 PM

VA FORM 08 - 6231



1 LEVEL 06 - FIRE PROTECTION - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 001 - LEVEL - 06 - OVERALL PLAN

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number
528A7-22-700

Building Number
001

Approved:

FULLY SPRINKLERED

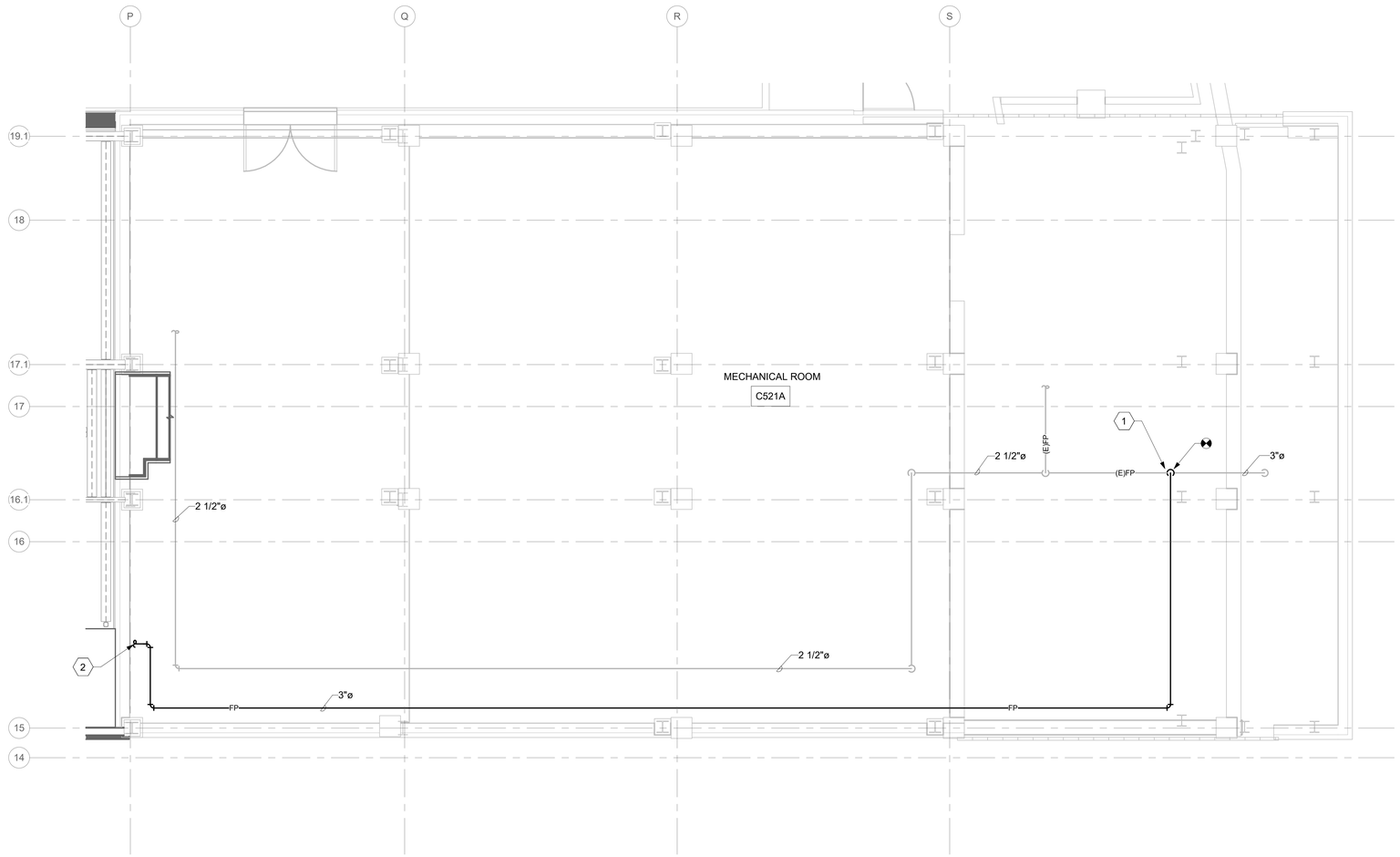
Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Drawing Number
001-FP-101

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:14:48 PM

VA FORM 08 - 6231



1 LEVEL 05 - MECHANICAL ROOM - FIRE PROTECTION

1/4" = 1'-0"

PROJECT NORTH

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

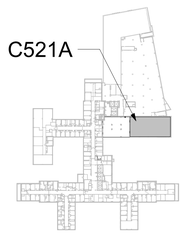
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

KEYNOTES (#)

1. TIE-IN TO EXISTING SPRINKLER PIPE. EXACT SPRINKLER PIPE SIZE SHALL BE AS PER THE LATEST EDITION OF NFPA 13. SIZE ON DRAWINGS FOR BIDDING PURPOSES ONLY.
2. FOR CONTINUATION, SEE SHEET 001-FP-401.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

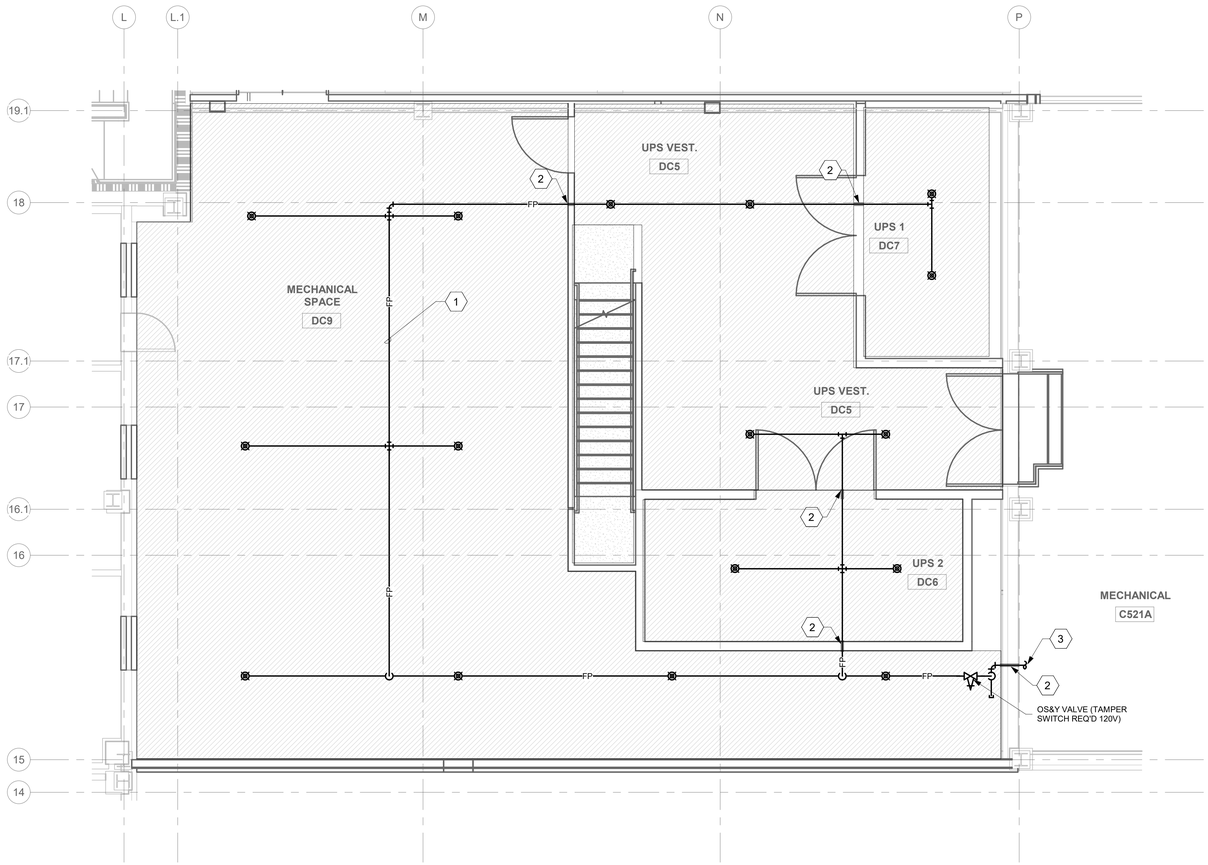
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 05 - FIRE PROTECTION PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-FP-400

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:14:51 PM

VA FORM 08 - 6231



1 LEVEL 05 - DATA CENTER - FIRE PROTECTION PLAN
1/4" = 1'-0"

PROJECT NORTH

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.
10. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

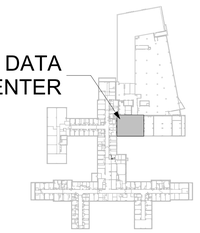
LEGEND

- LIGHT HAZARD OCCUPANCIES
- ORDINARY HAZARD GROUP 2 OCCUPANCIES

KEYNOTES (#)

1. FURNISH AND INSTALL SPRINKLER PIPE. SPRINKLER PIPE SIZES SHALL BE AS PER THE LATEST EDITION OF NFPA 13.
2. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
3. FOR CONTINUATION, SEE SHEET 001-FP-400.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

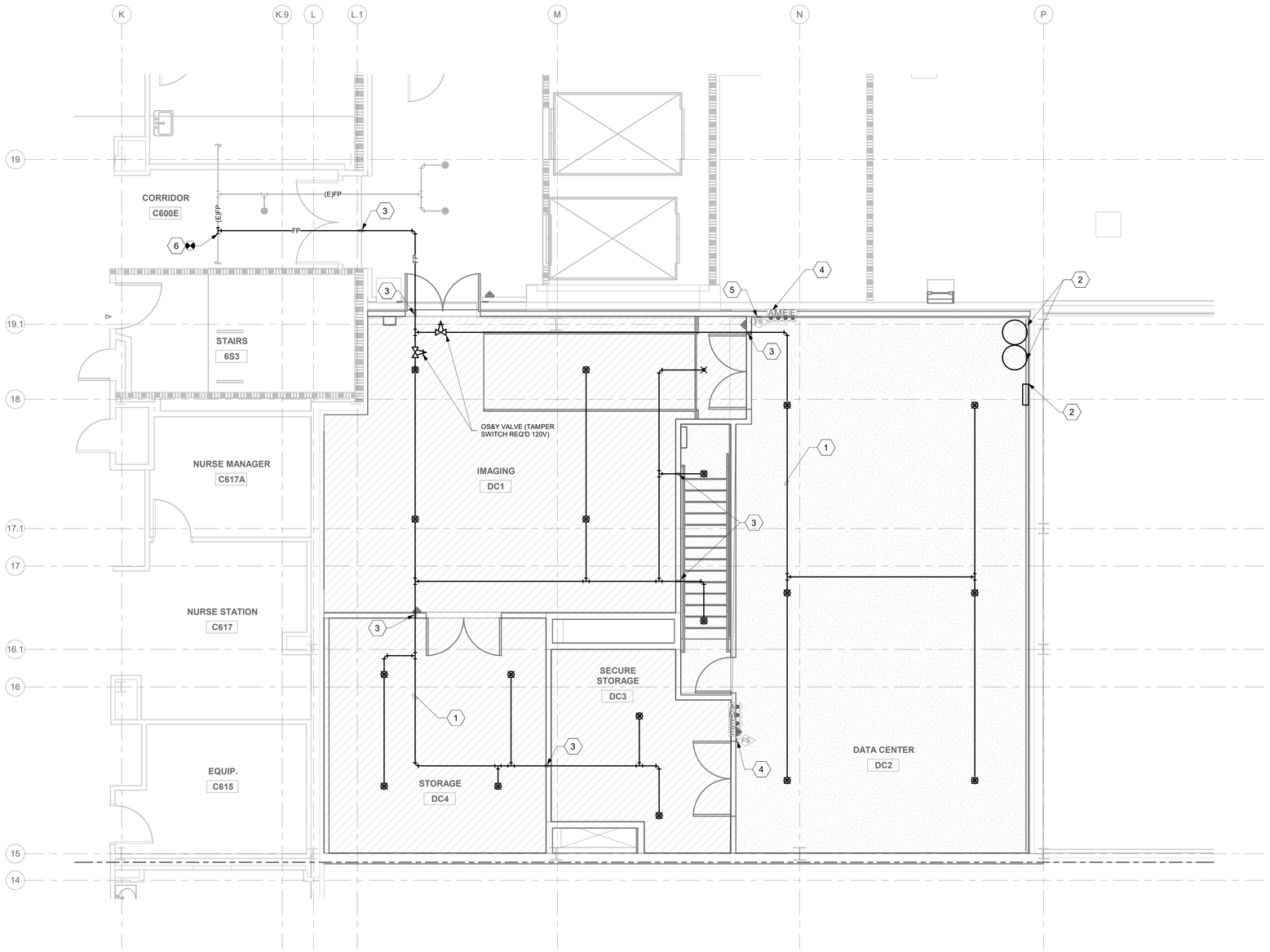
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 05 - DATA CENTER - FIRE PROTECTION PLAN
Approved:	
Phase	100% CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Project Number	528A7-22-700
Building Number	001
Drawing Number	001-FP-401

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_S0B.rvt
8/20/2025 1:14:54 PM

VA FORM 08 - 6231



1 LEVEL 06 - DATA CENTER - FIRE PROTECTION PLAN
1/4" = 1'-0"

PROJECT NORTH

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

FIRE PROTECTION NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

LEGEND

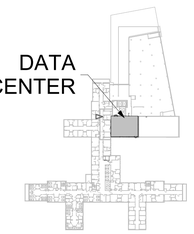
LIGHT HAZARD OCCUPANCIES

ORDINARY HAZARD GROUP 2 OCCUPANCIES

KEYNOTES (#)

1. FURNISH AND INSTALL SPRINKLER PIPE. SPRINKLER PIPE SIZES SHALL BE AS PER THE LATEST EDITION OF NFPA 13.
2. FURNISH AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM.
3. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
4. EMERGENCY PUSH BUTTON ABORT SWITCH FOR GASEOUS FIRE SUPPRESSION BY ELECTRICAL, SEE ELECTRICAL SHEETS FOR FURTHER DETAILS. SIGNAGE SHALL BE PER SPECIFICATION 21 22 00.
5. MANUAL PULL STATION FOR GASEOUS FIRE SUPPRESSION BY ELECTRICAL, SEE ELECTRICAL SHEETS FOR FURTHER DETAILS. SIGNAGE SHALL BE PER SPECIFICATION 21 22 00.
6. FURNISH AND INSTALL SPRINKLER PIPE. TIE-IN TO EXISTING SPRINKLER LINE. SPRINKLER PIPE SIZES SHALL BE AS PER THE LATEST EDITION OF NFPA 13.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/25

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 06 - DATA CENTER - FIRE PROTECTION PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-FP-402

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
9/22/2025 3:01:45 PM

VA FORM 08 - 6231

PLUMBING GENERAL NOTES

PLUMBING GENERAL NOTES

1. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, VA STANDARDS, AND SPECIFICATIONS.
3. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. IN CASES OF CONFLICT BETWEEN MANUFACTURER REQUIREMENTS, DRAWINGS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
4. COORDINATE INSTALLATION OF EQUIPMENT AND MATERIALS WITH OTHER TRADES.
5. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS OR ELECTRONIC EQUIPMENT.
6. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
7. IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIRE STOPPED AT THE END OF THE WORK SHIFT, TEMPORARY FIRESTOPPING COMPOSED OF MINERAL WOOL SHALL BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.
8. INSTALL ALL GRAVITY CONDENSATE DRAIN PIPING WITH A MINIMUM OF 1/8" PER LINEAR FOOT (1%) SLOPE.
9. INSTALL ALL SANITARY SEWER LINES WITH A SLOPE OF 1/4" PER LINEAR FOOT (2%) OF RUN. WHERE INDICATED ON PLANS, SANITARY SEWER LINES CAN BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" PER LINEAR FOOT (1%) OF RUN. CONTRACTOR MAY INSTALL PIPING WITH A SLOPE GREATER THAN THAT SPECIFIED ABOVE, BUT NEVER LESS.
10. ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE, ABOVE HARD SUSPENDED CEILING, OR ABOVE AN ACOUSTICAL CEILING UNLESS EXPLICITLY NOTED ON THE DRAWINGS AS BEING ROUTED EXPOSED IN A FINISHED ROOM OR SPACE.
11. ACCESS PANELS IN HARD SUSPENDED CEILINGS AND WALLS (NOT INCLUDING ACCESSIBLE WET WALLS) ARE REQUIRED FOR ALL VALVES, TRAPS, CLEANOUTS, CONTROLS, WATER HAMMER ARRESTORS ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATIONS. COORDINATE LOCATION WITH PLUMBING INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
12. SEISMIC PROVISIONS REQUIRED - SEE SPECIFICATIONS.
13. ALL PRESSURES LISTED ARE GAUGE PRESSURE UNLESS OTHERWISE NOTED.
14. ADDITIONAL PLUMBING WORK SHOWN ON MECHANICAL PLANS.
15. ALL TELECOMMUNICATION ROOMS SHALL HAVE A MOISTURE SENSOR INSTALLED AT LOWEST POINT FOR WATER DETECTION.
16. ALL EXISTING DOMESTIC WATER, SANITARY SEWER, STORM DRAIN, AND HYDRONIC PIPING IN TELECOMMUNICATION SPACES THAT DOES NOT TERMINATE AT THE SPACE SHALL BE PROVIDED WITH A DRIP PAN AND A MOISTURE SENSOR AT THE LOWEST POINT OF THE DRIP PAN.

PLUMBING DEMOLITION GENERAL NOTES

1. REFER TO ALL DRAWINGS FOR COORDINATION BETWEEN DEMOLITION AND NEW WORK. COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES.
2. COORDINATE SALVAGE AND REUSE OF EXISTING EQUIPMENT WITH OWNER. ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
   A) PROTECTING, COVERING, AND SEALING EXISTING EQUIPMENT AND SURROUNDINGS DURING DEMOLITION FROM DIRT, DUST, AND DEBRIS.
   B) ENSURING THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION.
   C) PREVENTING INJURY TO PERSONS AND DAMAGE TO PROPERTY.
   D) PROVIDING ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE.
   E) REPAIRING DAMAGED PROPERTY TO ITS ORIGINAL CONDITION IMMEDIATELY AFTER THE DAMAGE OCCURS.
   F) TAKING EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
4. MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING AREAS OUTSIDE OF PRESENT SCOPE WITHOUT FIRST OBTAINING PERMISSION FROM OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED.
5. REMOVE AND DISPOSE OF EXISTING PLUMBING EQUIPMENT AS SHOWN, UNLESS NOTED OTHERWISE. COORDINATE WITH ARCHITECTURAL PLANS, AREAS OF DEMOLITION AROUND, ADJACENT, OR DISCHARGED TO EXISTING PLUMBING EQUIPMENT THAT IS TO REMAIN.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	PLUMBING GENERAL NOTES
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	P-001
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_M-001_ME_SDB.rvt
8/20/2025 8:16:13 AM

VA FORM 08 - 6231

PIPING SYSTEMS

	DOMESTIC COLD WATER, COLD WATER
	DOMESTIC HOT WATER, HOT WATER
	DOMESTIC HOT WATER RETURN, HOT WATER RETURN
MA	MEDICAL AIR
MV	MEDICAL VACUUM
LA	LABORATORY AIR
LV	LABORATORY VACUUM
OA	ORAL EVACUATION
D	CONDENSATE DRAIN
	VENT (SANITARY)
SS	SOIL, WASTE, OR SANITARY SEWER
SD	STORM WATER
OFL	STORM OVERFLOW
N2O	NITROUS OXIDE
O	OXYGEN
N2	NITROGEN
NG	NATURAL GAS
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
F	FIRE PROTECTION
OW	OIL LADEN WASTE
ACID	ACID LADEN WASTE
GW	GREASE WASTE
NPW	NON POTABLE WATER
X	EXISTING PIPE TO BE REMOVED
SW	SOFTENED WATER
PSS	PUMPED SEWAGE

ADDITIONAL SYMBOLS

- 2 / PL4 — DETAIL NUMBER; DRAWING NUMBER WHERE DRAWN
- A / PL7 — SECTION LETTER; DRAWING NUMBER WHERE SHOWN
- 26-P 3 — BUILDING NO. WHERE EQUIPMENT IS LOCATED; EQUIPMENT ABBREVIATION (PUMP); PUMP NO. 3 IN BUILDING NO. 26; TYPICAL UNIT NO.
- SAN / 1 — RISER SYSTEM; RISER NUMBER
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION

PIPING SYMBOLS

- CONTINUATION
- DROP IN PIPE
- VALVE IN RISER
- ELBOW
- TEE
- UNION
- TOP CONNECTION
- BOTTOM CONNECTION
- DIRECTION OF PIPE PITCH (DOWN)
- VTR — VENT THRU ROOF
- PRESSURE REDUCING VALVE
- BALL JOINT
- FLEXIBLE CONNECTOR
- TOP CONNECTION, 45(DEG) OR 90° (DEG)
- BOTTOM CONNECTION, 45(DEG) OR 90° (DEG)
- CAPPED OUTLET
- PIPE UP
- PIPE DOWN
- STRAINER
- FLOOR DRAIN WITH TRAP
- FOR / FOS — FLOOR DRAIN WITH CLEANOUT
- FLOOR SINK WITH HALF GRATE
- FLOOR SINK WITH FULL GRATE
- DIRECTION OF FLOW
- FLOOR PENETRATION
- WH — FREEZE-PROOF WALL HYDRANT
- WCO — WALL CLEANOUT
- HOSE BIB
- WATER HAMMER ARRESTOR/ACCESS
- THERMOMETER
- T — THERMOMETER WELL
- STRAINER WITH BLOW-OFF AND HOSE CONNECTION
- P — PRESSURE GAUGE
- M — FLOW METER
- CO — CLEAN OUT
- FCO — FLOOR CLEANOUT
- P-TRAP

PIPING VALVES

- GATE VALVE
- GLOBE VALVE
- GATE VALVE WITH 3/4" HOSE ADAPTER
- CHECK VALVE
- ANGLE GLOBE VALVE
- BUTTERFLY VALVE
- BALL VALVE
- PRESSURE REGULATING VALVE
- PRESSURE SAFETY VALVE
- CALIBRATED BALANCING VALVE

ABBREVIATIONS

AC:	ALTERNATING CURRENT
A/E:	ARCHITECT/ENGINEER
AFF:	ABOVE FINISH FLOOR
AFG:	ABOVE FINISH GRADE
AG:	AIR GAP
AI:	ANALOG INPUT
AO:	ANALOG OUTPUT
ASHRAE:	AMERICAN SOCIETY OF HEATING REFRIGERATION, AIR CONDITIONING ENGINEERS
ASJ:	ALL SERVICE JACKET
ASME:	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE:	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASR:	AUTOMATIC SPRINKLER RISER
BACNET:	BUILDING AUTOMATION AND CONTROL NETWORK
BAS:	BUILDING AUTOMATION SYSTEM
BFP:	REDUCED PRESSURE BACKFLOW PREVENTER
BHP:	BRAKE HORSEPOWER
BTU:	BRITISH THERMAL UNIT
BTUH:	BRITISH THERMAL UNIT PER HOUR
CFM:	CUBIC FEET PER MINUTE
CO:	CLEANOUT
COR:	CONTRACTING OFFICER'S REPRESENTATIVE
CV:	CONTROL VALVE
CXA:	COMMISSIONING AGENT
DB:	DECIBELS
DB(A):	DECIBELS (A WEIGHTED)
DDC:	DIRECT DIGITAL CONTROL
DFU:	DRAINAGE FIXTURE UNITS
DI:	DIGITAL INPUT
DI:	DEIONIZED WATER
DN:	DIAMETER NOMINAL
DO:	DIGITAL OUTPUT
DOE:	DEPARTMENT OF ENERGY
DW:	DISHWASHER
DWG:	DRAWING
DWV:	DRAINAGE, WASTE AND VENT
E:	EXISTING
ECC:	ENGINEERING CONTROL CENTER AKA BAS
EL:	ELEVATION
EPA:	ENVIRONMENTAL PROTECTION AGENCY
F:	FAHRENHEIT
FCO:	FLOOR CLEANOUT
FD:	FLOOR DRAIN
FDC:	FIRE DEPARTMENT (HOSE) CONNECTION
FOP:	FUEL OIL PUMP
FOR:	FUEL OIL RETURN
FOS:	FUEL OIL SUPPLY
FOV:	FUEL OIL VENT
FS:	FLOW SWITCH
FSK:	FOIL-SCRIM-KRAFT FACING
FU:	FIXTURE UNITS
GAL:	GALLON
GCO:	GRADE CLEANOUTS
GPD:	GALLONS PER DAY
GPH:	GALLONS PER HOUR
GPM:	GALLONS PER MINUTE
GPR:	GAS PRESSURE REGULATOR
GRS:	GAS REGULATOR STATION
GT:	GREASE TRAP
GVTR:	GAS VENT THROUGH ROOF
H&CW:	HOT AND COLD WATER
HB:	HOSE BIB
HD:	HUB DRAIN
HEX:	HEAT EXCHANGER
HG:	MERCURY
HOA:	HANDS-OFF-AUTOMATIC
HP:	HORSEPOWER
HVE:	HIGH VOLUME EVACUATION
HWCP:	HOT WATER CIRCULATING PUMP
HZ:	HERTZ
ICWR:	INTERMEDIATE CHILLED WATER RETURN
ID:	INSIDE DIAMETER
INV:	INVERT
IPC:	INTERNATIONAL PLUMBING CODE
KW:	KILOWATT
KWH:	KILOWATT HOUR
LAV:	LAVATORY
LB:	POUND
LBS/HR:	POUNDS PER HOUR
MA:	MEDICAL AIR
MAV:	MEDICAL AIR VENT
MAX:	MAXIMUM
MBH:	1000 BTU PER HOUR
MFG:	MANUFACTURER
MG:	MILLIGRAM
MIN:	MINIMUM
MV:	MEDICAL VACUUM
N2:	NITROGEN
N2O:	NITROGEN OXIDE
NC:	NORMALLY CLOSED
NG:	NATURAL GAS
NO:	NORMALLY OPEN
NOM:	NOMINAL
NPS:	NOMINAL PIPE SIZE
NTS:	NOT TO SCALE
O2:	OXYGEN
OC:	ON CENTER
OD:	OUTSIDE DIAMETER
OR:	OPERATING ROOM
OSD:	OPEN SIGHT DRAIN
OS&Y:	OUTSIDE STEM AND YOKE
OXY:	OXYGEN
PA:	PASCAL
PD:	PRESSURE DROP OR DIFFERENCE
PG:	PRESSURE GAUGE
PID:	PROPORTIONAL-INTEGRAL-DIFFERENTIAL
PLC:	PROGRAMMABLE LOGIC CONTROLLERS
PPB:	PARTS PER BILLION
PPM:	PARTS PER MILLION
PRV:	PRESSURE REDUCING VALVE
PSI:	POUNDS PER SQUARE INCH
PSIA:	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG:	POUNDS PER SQUARE INCH GAUGE
PVC:	POLYVINYL CHLORIDE
PW:	POTABLE WATER
RAD:	RADIANS
RD:	ROOF DRAIN
RO:	REVERSE OSMOSIS
RPM:	REVOLUTIONS PER MINUTE
SAN:	SANITARY SEWER
SCFM:	STANDARD CUBIC FEET PER MINUTE
SF:	SQUARE FEET
SMACNA:	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SPEC:	SPECIFICATION
SPS:	STERILE PROCESSING SERVICES
SQFT:	SQUARE FEET
SS:	STAINLESS STEEL
STD:	STANDARD
SW:	STORM WATER
SWP:	STEAM WORKING PRESSURE
TCV:	TEMPERATURE CONTROL VALVE
TD:	TRENCH DRAIN
TDH:	TOTAL DYNAMIC HEAD
TEMP:	TEMPERATURE
TMV:	THERMOSTATIC MIXING VALVE
T/P:	TEMPERATURE AND PRESSURE
TP:	TRAP PRIMER
TSTAT:	THERMOSTAT
TYP:	TYPICAL
V:	VOLT
VA:	VETERANS ADMINISTRATION
CSS:	SERVICE
VAC:	VACUUM
VAMC:	VETERANS ADMINISTRATION MEDICAL CENTER
VA TIL:	WWW.CFM.VA.GOV/TIL/INDEX.ASP
VHA:	VETERANS HEALTH ADMINISTRATION
VSD:	VARIABLE SPEED DRIVE
VTR:	VENT THROUGH ROOF
W:	WASTE
WAGD:	WASTE ANESTHESIA GAS DISPOSAL
WC:	WATER CLOSET
WCO:	WATER CLEANOUT
WG:	WATER GAUGE
WH:	WALL HYDRANT
WOG:	WATER, OIL, GAS
WPD:	WATER PRESSURE DROP
WS:	WASTE STACK
WSFU:	WATER SUPPLY FIXTURE UNITS
YCO:	YARD CLEANOUT
YH:	YARD HYDRANT

Revisions: | Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP
MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

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

Drawing Title: PLUMBING ABBREVIATIONS & LEGENDS
Phase: 100% CONSTRUCTION DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number: 528A7-22-700
Building Number:
Approved:
Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number: P-002
Issue Date: 08/22/2025
Checked: MGH/JW
Drawn: AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_M-001_ME_SDB.rvt
8/20/2025 8:16:13 AM

VA FORM 08 - 6231

1 LEVEL 00B - PLUMBING - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 00B - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-P-100
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:01 PM

VA FORM 08 - 6231

1 LEVEL 00G - PLUMBING - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:06 PM

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 00G - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE , SYRACUSE, NY 13210	**Drawing Number** 001-P-101
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

VA FORM 08 - 6231

1 LEVEL 01 - PLUMBING - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

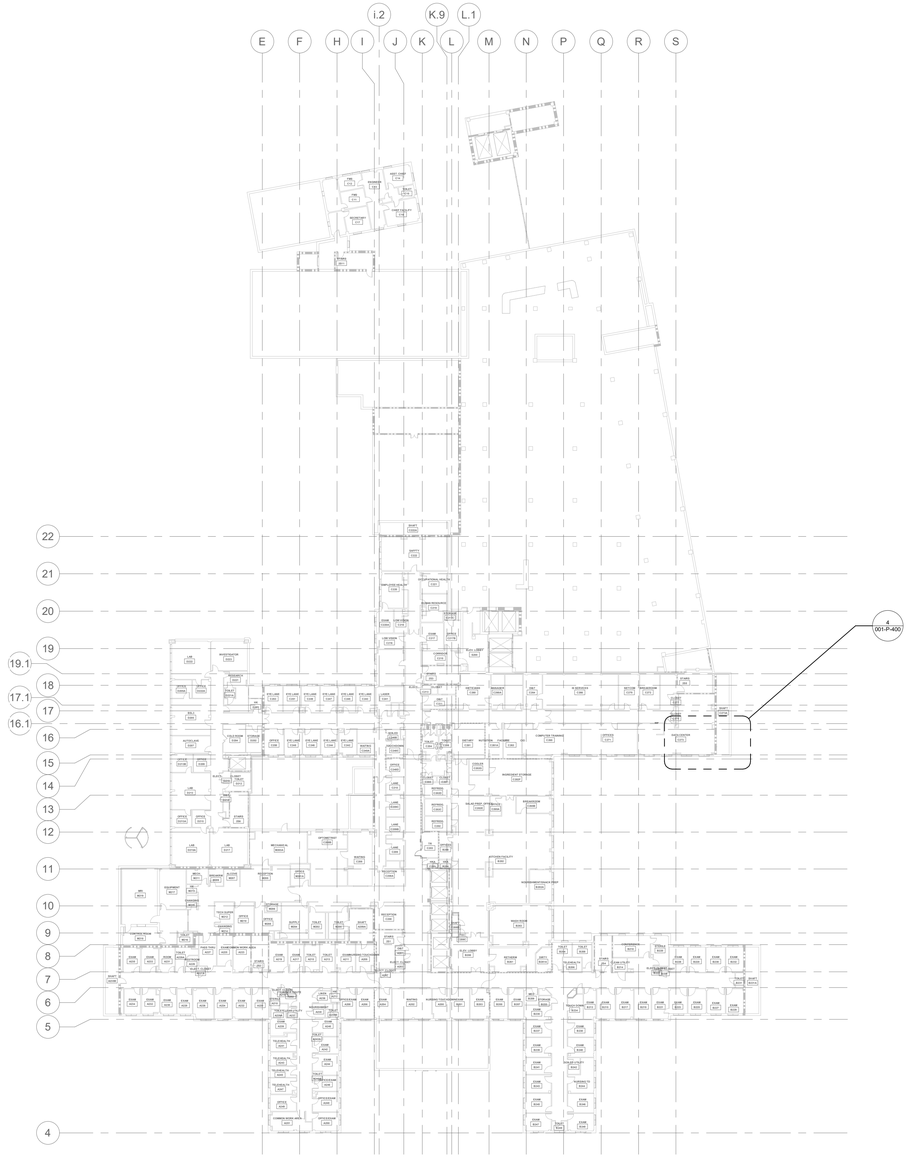
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 01 - OVERALL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-P-102
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:11 PM

VA FORM 08 - 6231



3 LEVEL 02 - PLUMBING - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

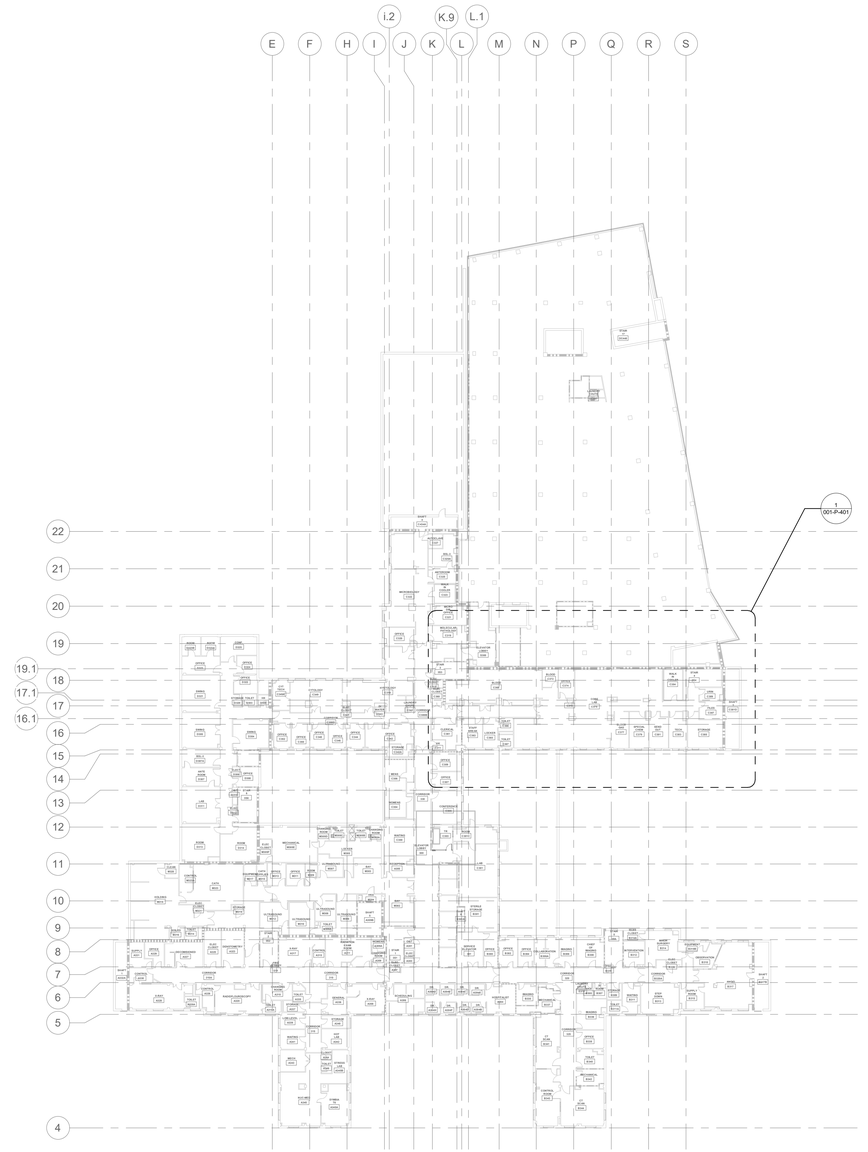
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 02 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-P-103
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:15 PM

VA FORM 08 - 6231



1 LEVEL 03 - PLUMBING - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

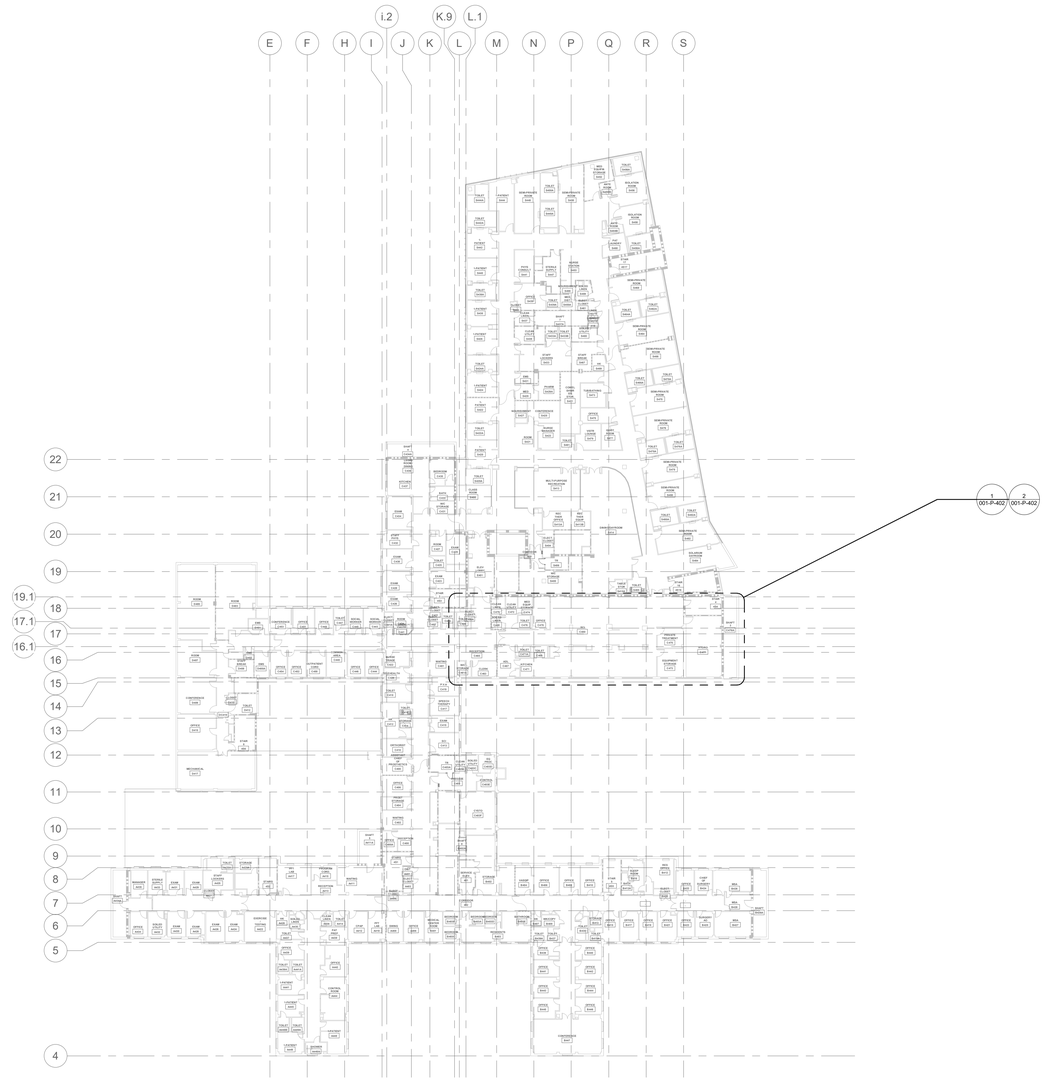
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 03 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-P-104

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:18 PM

VA FORM 08 - 6231



3 LEVEL 04 - PLUMBING OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

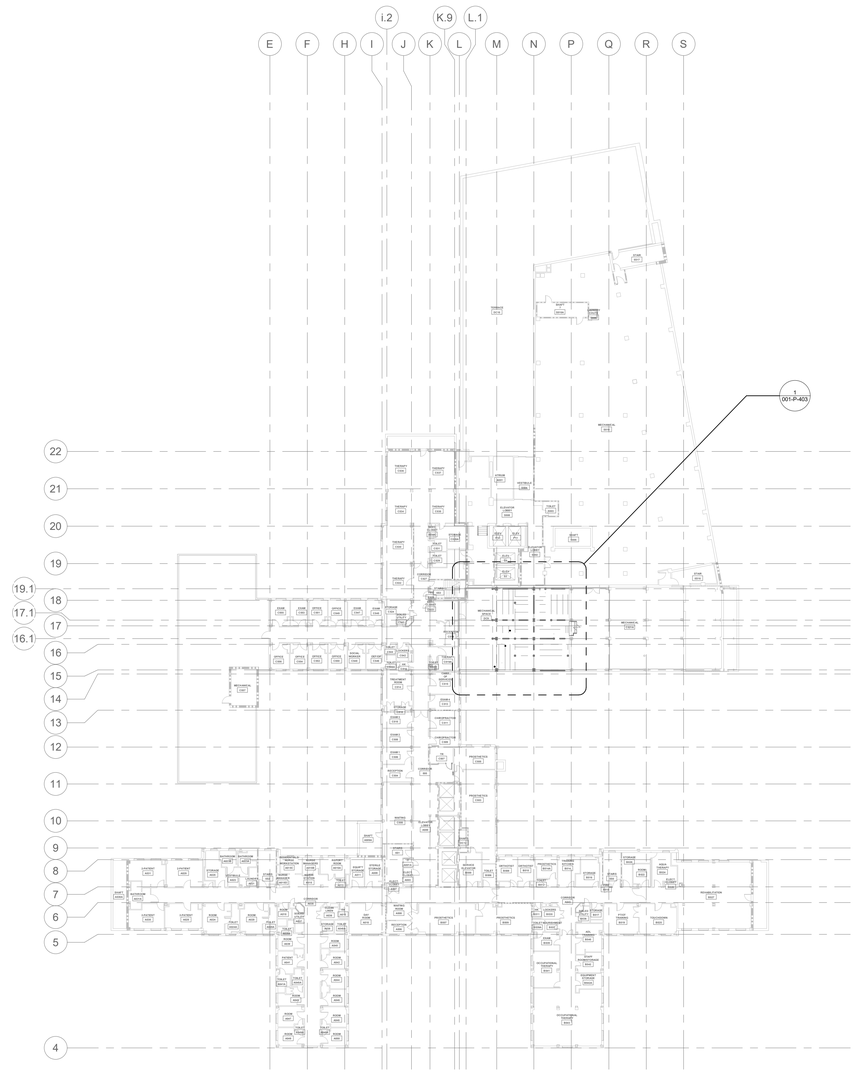
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 04 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-P-105

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:22 PM

VA FORM 08 - 6231



1 LEVEL 05 - PLUMBING - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 001 - LEVEL - 05 - OVERALL PLAN

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number
528A7-22-700

Building Number
001

Approved:

FULLY SPRINKLERED

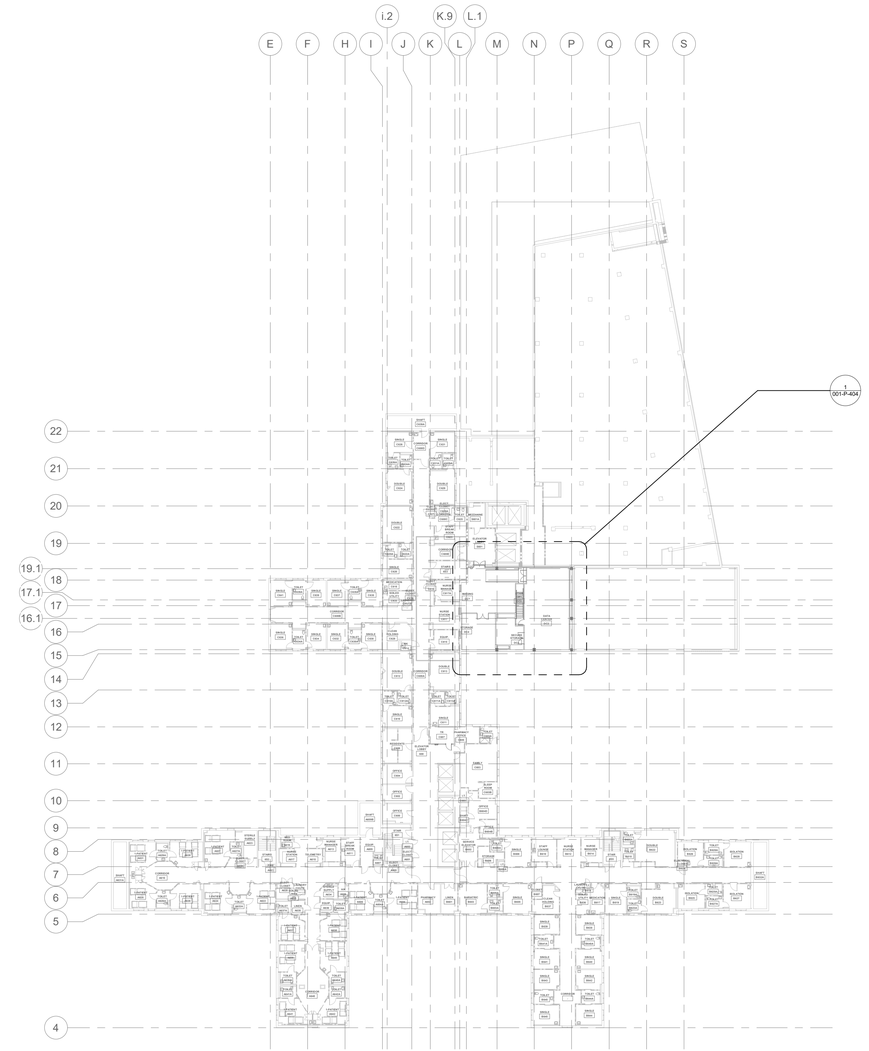
Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date 08/22/2025
Checked MGH/JW
Drawn AP/CY/EA/JJ/MA

Drawing Number
001-P-106

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:25 PM

VA FORM 08 - 6231



1 LEVEL 06 - PLUMBING - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 001 - LEVEL - 06 - OVERALL PLAN

Approved:

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

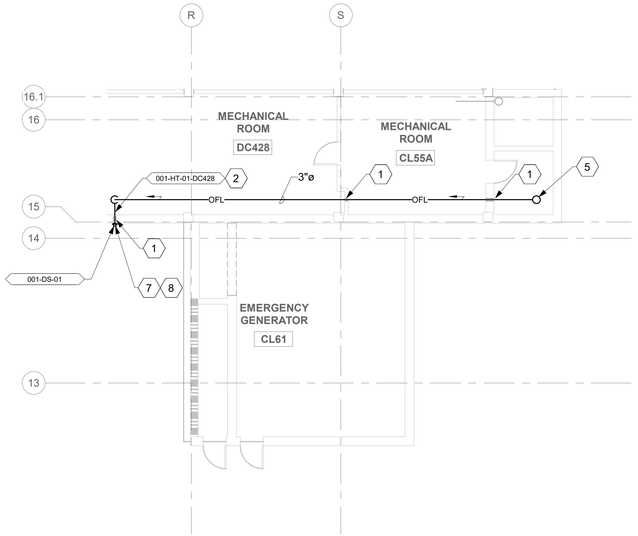
Project Number
528A7-22-700

Building Number
001

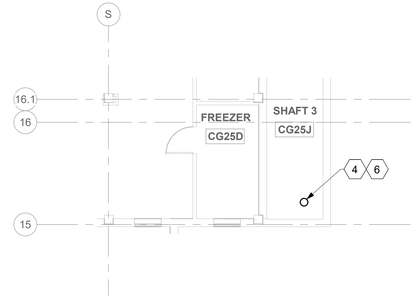
Drawing Number
001-P-107

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_S0B.rvt
8/20/2025 1:15:31 PM

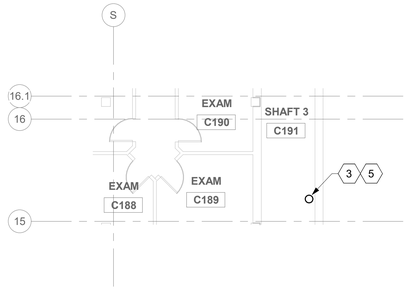
VA FORM 08 - 6231



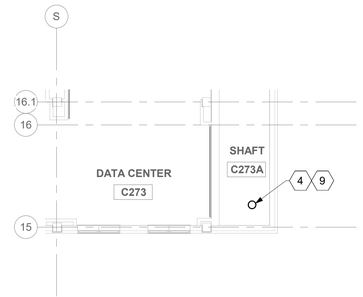
1 LEVEL 00B - PLUMBING PLAN
1/8" = 1'-0"



2 LEVEL 00G - PLUMBING PLAN
1/8" = 1'-0"



3 LEVEL 01 - SHAFT 3 - PLUMBING PLAN
1/8" = 1'-0"



4 LEVEL 02 - SHAFT - PLUMBING PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

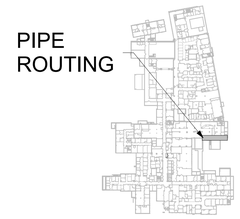
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET P-501.
2. HEAT TRACE MINIMUM 10' FROM EXTERIOR PENETRATION. SEE MECHANICAL SHEETS FOR HEAT TRACE SCHEDULE.
3. FOR CONTINUATION, SEE VIEW # 1.
4. FOR CONTINUATION, SEE VIEW # 2.
5. FOR CONTINUATION, SEE VIEW # 3.
6. FOR CONTINUATION, SEE VIEW # 4.
7. FURNISH AND INSTALL NEW DOWNSPOUT NOZZLE . SEE "OVERFLOW THRU WALL DETAIL" ON SHEET P-501.
8. FURNISH AND INSTALL OVERFLOW RAIN LEADER. ROUTE PIPING DOWN TO 2' ABOVE FINISHED FLOOR BEFORE PENETRATING WALL. DISCHARGE TO THE EXTERIOR VIA COWS TONGUE DOWNSPOUT. SEE SHEET M-603 FOR EQUIPMENT SCHEDULES.
9. FOR CONTINUATION, SEE SHEET 001-P-401.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

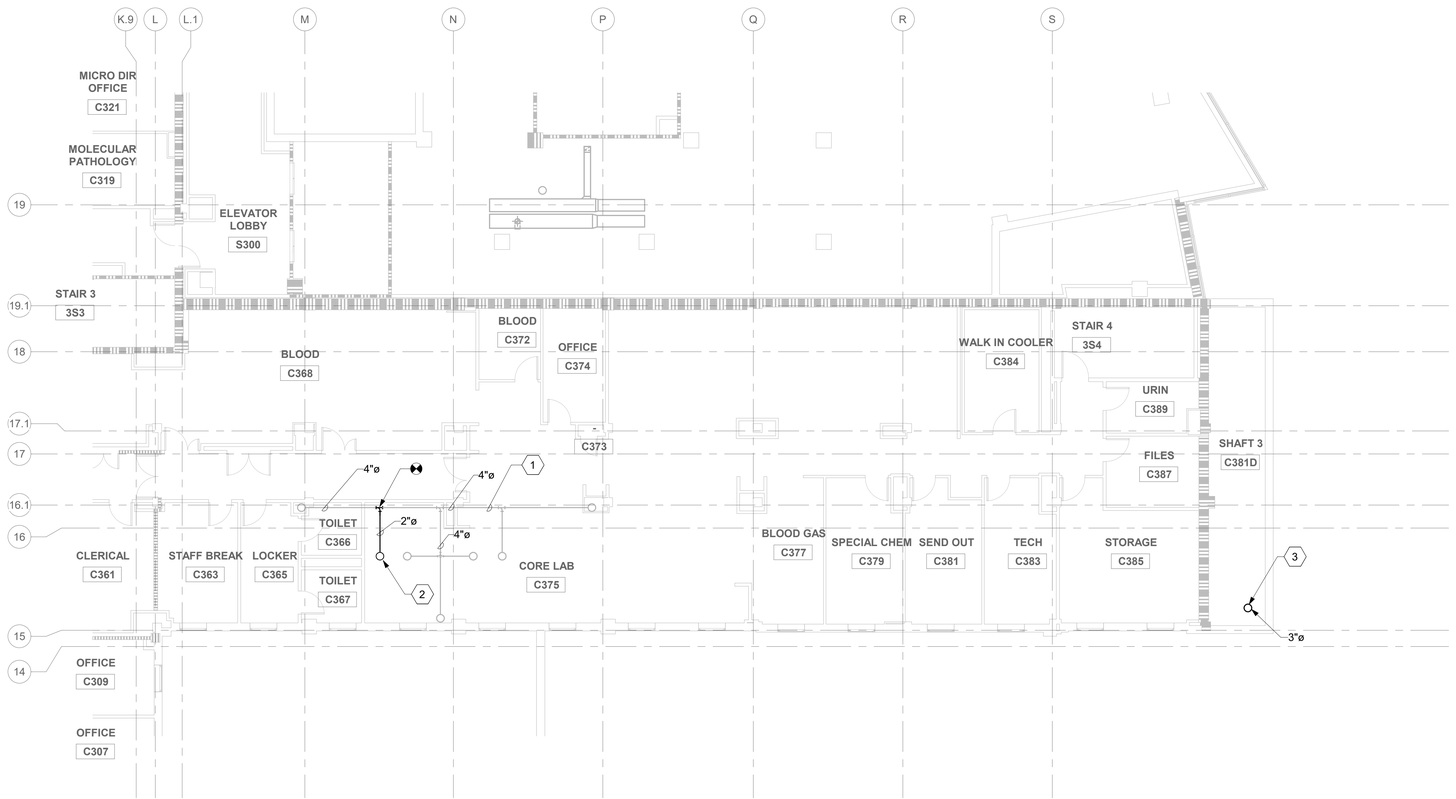
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 00B - 2 - FLOOR PLANS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-P-400

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:37 PM

VA FORM 08 - 6231



1 BUILDING - 001 - LEVEL - 03 - PLUMBING FLOOR PLAN

1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

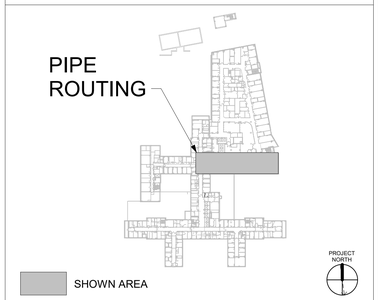
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING SANITARY PIPING.
2. NEW DRAIN CONNECTION FROM ABOVE. SEE SHEET 001-P-402.
3. FOR CONTINUATION, SEE SHEET 001-P-400 AND 001-P-402.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

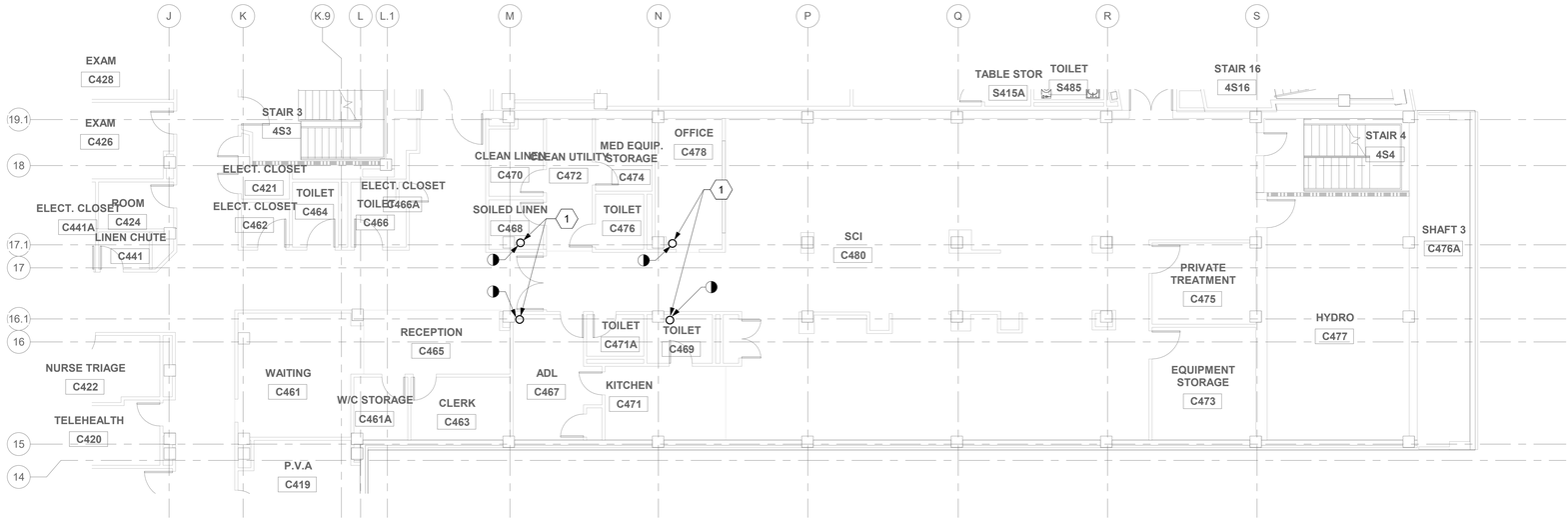
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 03 - PLUMBING FLOOR PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-P-401
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

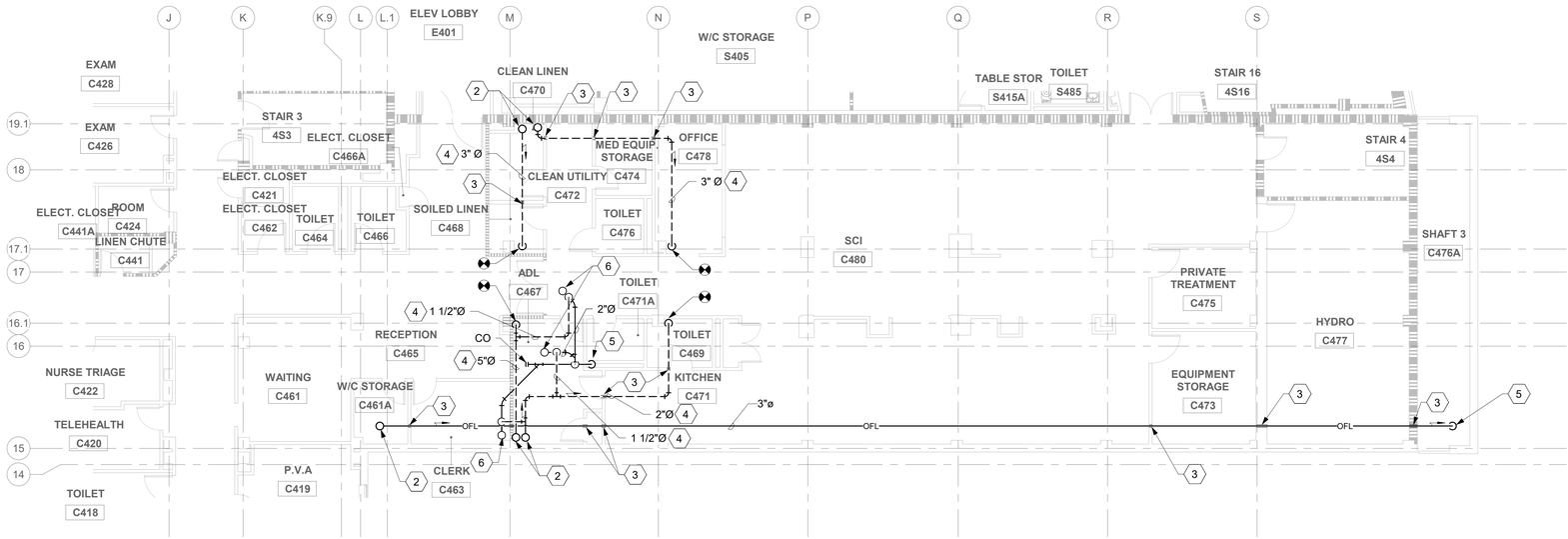
Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_S2B.rvt
8/20/2025 1:15:42 PM

VA FORM 08 - 6231



1 LEVEL 04 - RM S406 - PLUMBING DEMOLITION PLAN

1/8" = 1'-0"



2 LEVEL 04 - RM S406 - PLUMBING PLAN

1/8" = 1'-0"

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

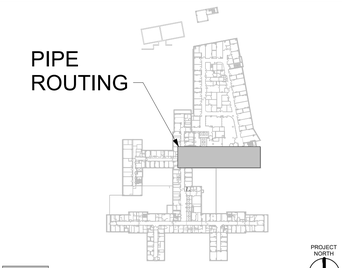
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING VENT THROUGH ROOF. DEMOLISH ROOF MOUNTED VENT AND ASSOCIATED APPURTENANCES TO BELOW STRUCTURE. FOR PLUMBING DEMOLITION ON LEVEL 04 ROOF, SEE SHEET 001-MD-402.
2. TO LEVEL ABOVE. FOR CONTINUATION, SEE SHEET 001-P-403.
3. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET P-501.
4. FURNISH AND INSTALL VENT PIPING. PROVIDE WITH 1% SLOPE.
5. TO FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-P-401.
6. UP TO FLOOR DRAIN. FOR CONTINUATION, SEE SHEET 001-P-403.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

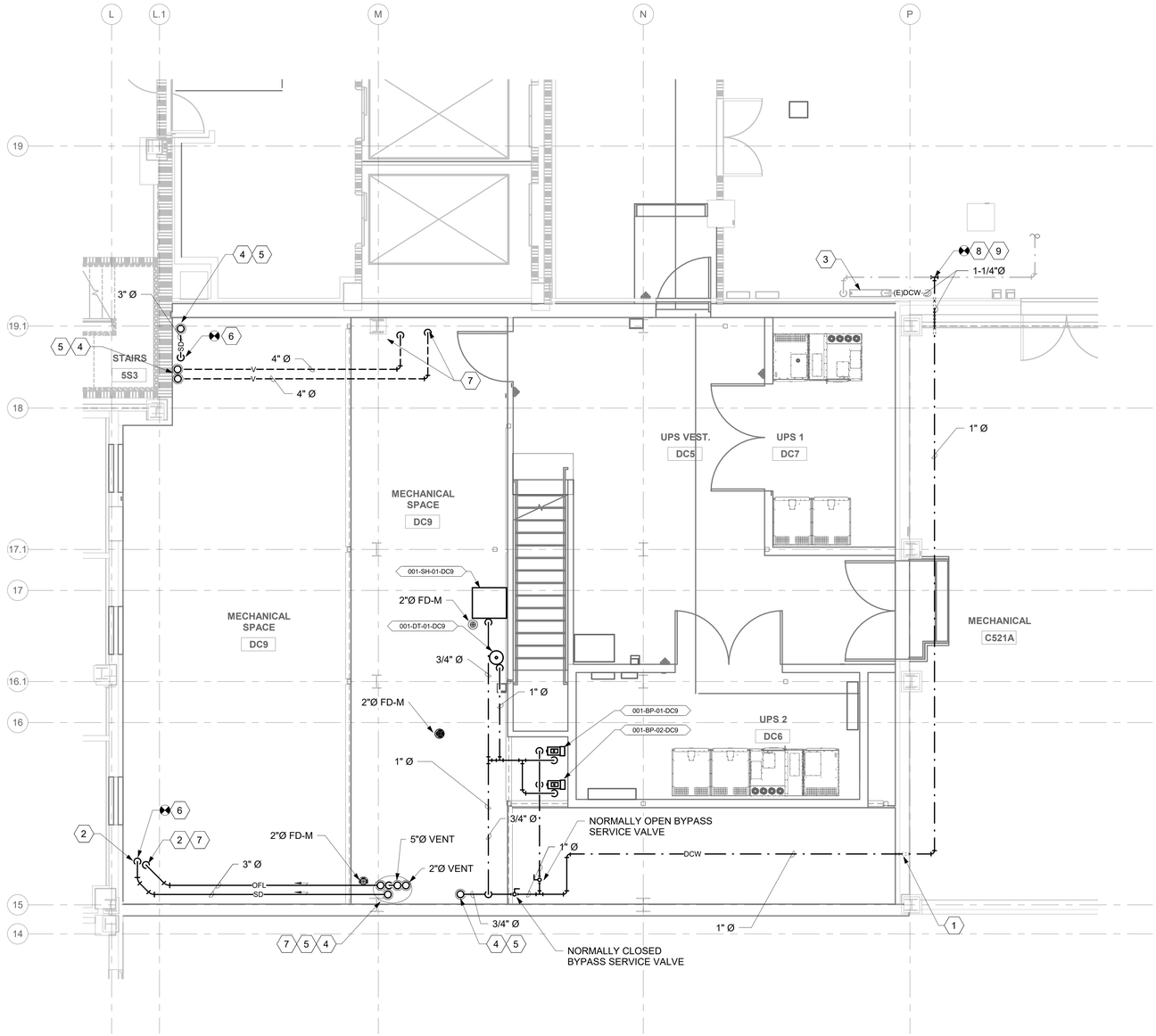
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 04 - PLUMBING DEMOLITION & FLOOR PLANS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-P-402
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:47 PM

VA FORM 08 - 6231



1 LEVEL 05 - DATA CENTER - DATA CENTER - PLUMBING PLAN

1/4" = 1'-0"

PROJECT NORTH

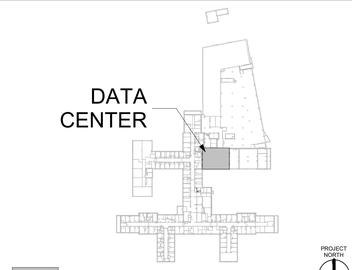
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

KEYNOTES (#)

1. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
2. PROVIDE CLEANOUT IN VERTICAL.
3. EXISTING BACKFLOW PREVENTER.
4. FOR CONTINUATION, SEE SHEET 001-P-404.
5. PROVIDE FLOOR OPENING AND PIPE SLEEVE. SEE "PIPE THRU FLOOR DETAIL" ON SHEET M-501.
6. EXISTING ROOF DRAIN TO BE EXTENDED TO NEW ROOF STRUCTURE. FOR DEMOLITION, SEE SHEET 001-MD-402.
7. FOR CONTINUATION SEE SHEET 001-P-402.
8. TIE-IN TO EXISTING DOMESTIC COLD WATER PIPING.
9. PROVIDE SIGNAGE TO INDICATE THAT PIPING IS TO BE USED FOR MECHANICAL SYSTEMS ONLY.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

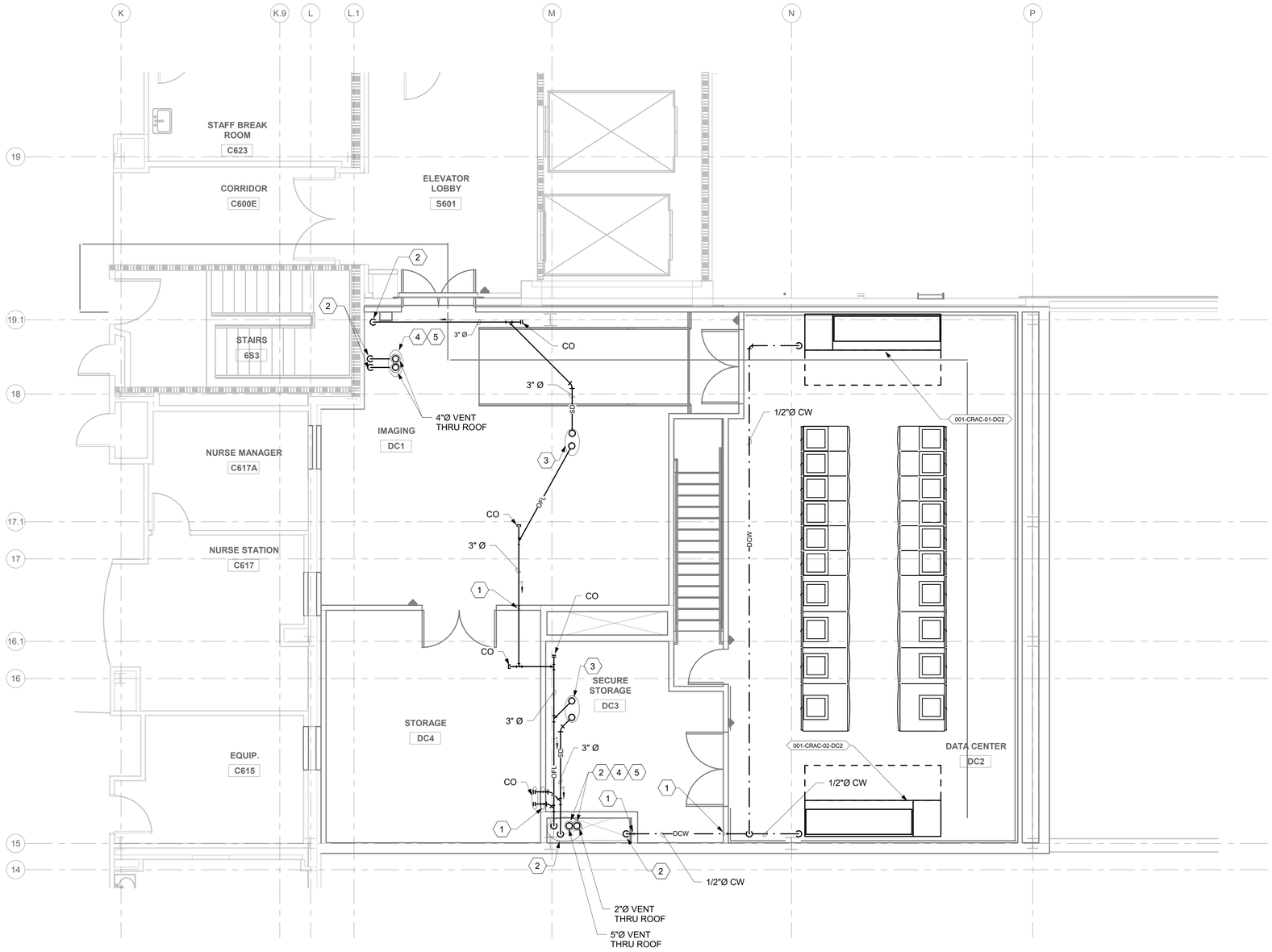
Drawing Title: BUILDING - 001 - LEVEL - 05 - DATA CENTER - FLOOR PLAN	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	Project Number: 528A7-22-700
	Building Number: 001
Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	Drawing Number: 001-P-403

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:51 PM

VA FORM 08 - 6231



1 LEVEL 06 - DATA CENTER - DATA CENTER - PLUMBING PLAN

1/4" = 1'-0"

PROJECT NORTH

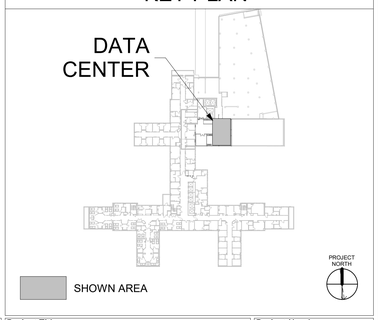
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

KEYNOTES (#)

1. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
2. FOR CONTINUATION, SEE SHEET 001-P-403.
3. UP TO ROOF, FURNISH AND INSTALL RAIN LEADER PIPING AND ASSOCIATED PIPE ACCESSORIES. FOR CONTINUATION, SEE SHEET 001-M-420.
4. FOR CONTINUATION, SEE SHEET 001-M-420.
5. VENT THRU ROOF. SEE "VENT THRU ROOF DETAIL" ON SHEET M-502.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

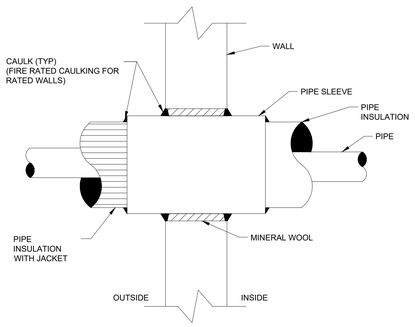
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 06 - DATA CENTER - FLOOR PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-P-404
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

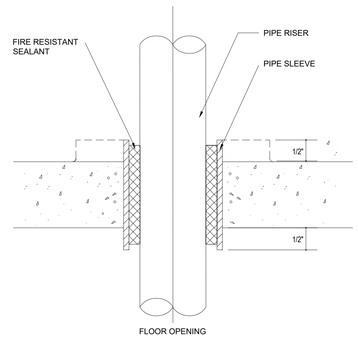
Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:54 PM

VA FORM 08 - 6231



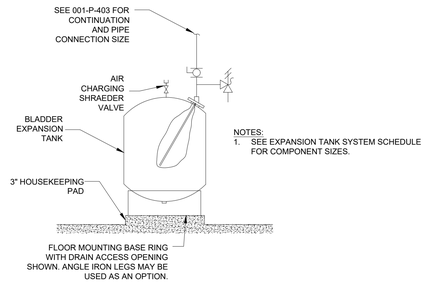
1 PIPE THRU WALL (RATED/UNRATED) DETAIL

SCALE: NTS



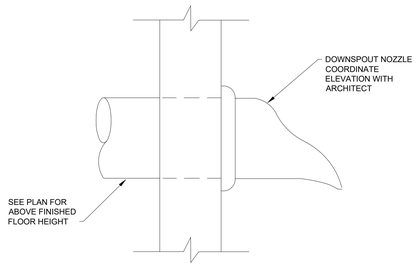
2 PIPE THRU FLOOR DETAIL

SCALE: NTS



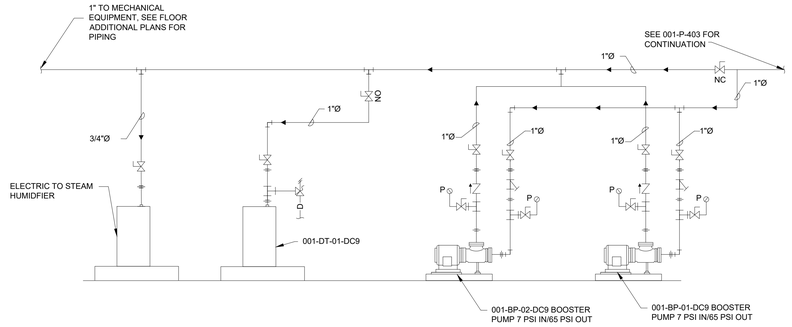
3 FLOOR MOUNTED EXPANSION TANK - PIPING CONNECTIONS

SCALE: NTS



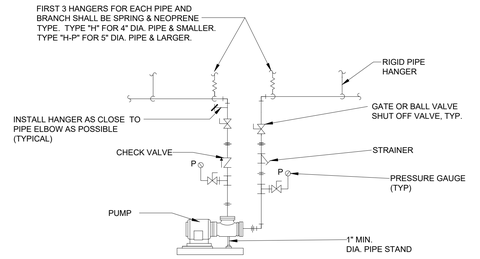
4 OVERFLOW THRU WALL DETAIL

SCALE: NTS



5 DOMESTIC BOOSTER PUMP LOOP DIAGRAM

SCALE: NTS



6 SINGLE SUCTION FLOOR MOUNTED PUMPS

SCALE: NTS

Revisions:	**Date:**

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
PLUMBING DETAILS I

Approved:

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

Project Number
528A7-22-700

Building Number
-

Drawing Number
P-501

VA FORM 08 - 6231

DOMESTIC DRAWDOWN TANK

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	AREA SERVED	SYSTEM SERVED	TYPE	TEMPERATURE		SYSTEM VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	FILL PRESSURE (PSI)	RELIEF PRESSURE (PSI)	MAXIMUM WORKING PRESSURE (PSI)	WEIGHT (LBS)
						FILL (°F)	MAX (°F)						
001-DT-01-DC9	JOHN WOOD COMPANY	JAPR-20-601	DATA CENTER	DOMESTIC	VERTICAL BLADDER STYLE	40	120	10	1.5	25	70	125	50

ROOF DRAIN AND OVERFLOW SCHEDULE

EQUIPMENT TAG	LOCATION	TYPE	BASIS OF DESIGN MANUFACTURER	CONFIGURATION	PIPE SIZE	REMARKS
001-RD-01	DATA CENTER ROOF	ROOF DRAIN	JR SMITH	FIG 1010	3"	1
001-RD-02	DATA CENTER ROOF	OVERFLOW ROOF DRAIN	JR SMITH	FIG 1070-E-W	3"	1,2
001-DS-01	BLDG 01	DOWNSPOUT NOZZLE	JR SMITH	FIG 1770T	3"	-

REMARKS:
1. PROVIDE UNDER DECK CLAMP.
2. PROVIDE 2" EXTENSION.

BOOSTER PUMP SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION		SIZES (IN)		OPERATING POINT			ELECTRICAL					WEIGHT (LBS)
			BUILDING	ROOM	INLET	OUTLET	FLOW (GPM)	EWP (PSI)	LWP (PSI)	POWER (HP)	V	PH	HZ	DISCONNECT FURNISHED BY	
001-BP-01-DC9	GOULDS	1AB31HME04	1	DC9	1-1/4	1	18	7	65	1/2	208	3	60	EC	53
001-BP-02-DC9	GOULDS	1AB31HME04	1	DC9	1-1/4	1	18	7	65	1/2	208	3	60	EC	53

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING SCHEDULES I

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location: VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date: 08/22/2025

Checked: MGH/JW

Drawn: AP/CY/EA/JJ/MA

Project Number: 528A7-22-700

Building Number: -

Drawing Number: P-601

VA FORM 08 - 6231

CONTROLS SYMBOLS

T	ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT
M	ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER - WALL MOUNT
TT	TEMPERATURE TRANSMITTER
TT	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
MT	MOISTURE (HUMIDITY) TRANSMITTER
PT	PRESSURE TRANSMITTER
SPS	STATIC PRESSURE SENSOR
FT	FLOW TRANSMITTER
CS	CURRENT TRANSMITTER
CT	CONDUCTIVITY TRANSMITTER
SD	SMOKE DETECTOR
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PDS	PRESSURE DIFFERENTIAL SWITCH
HS	HAND SWITCH (HAND-OFF-AUTO SWITCH)
ZC	VALVE OR DAMPER POSITION CONTROLLER
KR	LOCAL RECORDING TIME CLOCK (RUNTIME)
TSL	TEMPERATURE SWITCH, LOW (FREEZESTAT)
TSH	TEMPERATURE SWITCH, HIGH (FREEZESTAT)
LC	LEVEL CONTROLLER
LT	LEVEL TRANSMITTER
RHC	RE HEAT COIL
FE	AIRFLOW SENSOR
TE	TEMPERATURE SENSOR
ATU	AIR TERMINAL UNITS

CONTROLS SYMBOLS

PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
EPT	ELECTRONIC TO PNEUMATIC TRANSDUCER
AT CO2	CARBON DIOXIDE TRANSMITTER
AT CO	CARBON MONOXIDE TRANSMITTER
AT OC	OCCUPANCY SENSOR
LTCP	LOCAL TEMPERATURE CONTROL PANEL
HVAC	HVAC CONTROL PANEL
VSMC	VARIABLE SPEED MOTOR CONTROLLER
ECC	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
TC	TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION
PC	PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION
SC	SPEED CONTROLLER. SEE SEQUENCE OF OPERATION
FC	FLOW CONTROLLER. SEE SEQUENCE OF OPERATION
FSH	FLOW SWITCH HIGH
FSL	FLOW SWITCH LOW
KC	TIME CLOCK CONTROLLING EQUIPMENT ON A SCHEDULE

CONTROLS SYMBOLS

	TEMPERATURE SENSING ELEMENT FOR TRANSMITTING TEMPERATURE TO EMCS (PROVIDE 12 INCHES [200mm] MINIMUM LENGTH IN DUCT WHEN SPACE PERMITS.)
A	SENSOR WITH AVERAGING ELEMENT TO TRANSMIT TEMPERATURE TO EMCS
	MOTOR STARTER
M	ELECTRIC OPERATED CONTROL DAMPER/OR VALVE

VALVE SYMBOLS

	GATE VALVE - THREADED/FLANGED
	GLOBE VALVE - THREADED/FLANGED
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	FLEXIBLE CONNECTION
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	MODULATING CONTROL BUTTERFLY VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY VALVE
	AUTOMATIC BALANCING CONTROL VALVE
	WATER BALANCE DEVICE
	CIRCUIT SETTER VALVE
	GATE VALVE WITH GLOBE-VALVED BYPASS
	PLUG VALVE
	CONTROL VALVE (CV) - FLOAT-OPERATED
	PRESSURE REDUCING VALVE (PRV)
LC	WATER LEVEL CONTROLLER
M	FLOW METER

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
PLUMBING CONTROLS I

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number
528A7-22-700

Building Number
-

Approved:

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date
08/22/2025

Checked
MGH/JW

Drawn
AP/CY/EA/JJ/MA

Drawing Number
P-701

VA FORM 08 - 6231

1. GENERAL

1.1 P-01 AND P-02 ARE NORMALLY STARTED AND STOPPED REMOTELY AT THE ECC.

1.2 P-01 SHALL BE LEAD CW PUMP. P-02 SHALL BE LAG CW PUMP. PUMPS ARE FULLY REDUNDANT AND ONLY LEAD OR LAG PUMP SHALL BE IN OPERATION AT ANY GIVEN TIME. LEAD AND LAG PUMP SHALL ROTATE EVERY 2 WEEKS (VAR).

2. FLOW

2.1 LEAD PUMP SHALL TURN ON WHEN PRESSURE AT PS-02 IS 30 PSI (VAR). PUMPS SHALL INCREASE PRESSURE AT PS-02 TO 60 PSI (VAR).

3. ALARMS

3.1 IF LEAD PUMP IS COMMANDED ON BUT RESPECTIVE CURRENT SENSOR DOES NOT SENSE ANY CURRENT, LAG PUMP SHALL BE COMMANDED ON, ALARM AT OPERATOR WORK STATION.

3.2 IF PUMP PGCP-01/PGCP-02 IS COMMANDED ON AND PS-02 SENSES A PRESSURE LESS THAN 27 PSI (VAR), ALARM AT OPERATOR WORK STATION.

JOB: 528A7-22-700
BUILDING: NEW DATA CENTER

POINT LEGEND

SYSTEM OUTPUTS: BINARY | ANALOG

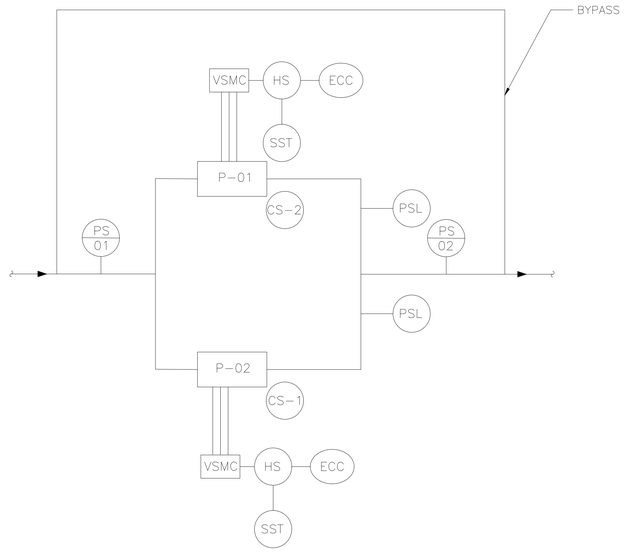
SYSTEM INPUTS: BINARY | ANALOG

SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING | APPLICATION/FUNCTION

PAGE:

SYSTEM: DOMESTIC BOOSTER PUMP

SYSTEM COMPONENT:	POINT ID	ABBREVIATION	REMARKS
INCOMING PRESSURE (PSI)	AI-1	PIN	
LEAVING PRESSURE (PSI)	AI-2	POUT	
SUPPLY PUMP VSMC	AO-1	SP-SPD1	
PRESSURE SWITCH	BO-1	PSW	
SYSTEM STATUS	BO-2	STAT	



1 DOMESTIC WATER BOOSTER PUMP SEQUENCE

SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

RACHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PLUMBING CONTROLS II

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210

Issue Date: 08/22/2025 | **Checked:** MGH/JW | **Drawn:** AP/CY/EA/JJ/MA

Project Number: 528A7-22-700

Building Number: -

Drawing Number: P-702

VA FORM 08 - 6231

GENERAL NOTES

APPLICABLE PUBLICATIONS

AS AN AGENCY OF THE FEDERAL GOVERNMENT, THE VA IS NOT SUBJECT TO LOCAL IMPOSITIONS OF CODE ENFORCEMENT PROCEDURES (DRAWING REVIEWS, BUILDING PERMITS, INSPECTIONS, FEES, ETC). THE VA SHALL FUNCTION AS THE AUTHORITY HAVING JURISDICTION (AHJ).

VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL).

INTERNATIONAL BUILDING CODE (IBC) 2021.

INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2021.

NATIONAL FIRE PROTECTION AGENCY (NFPA) 101 LIFE SAFETY CODE. NFPA 101 TAKES PRECEDENCE OVER IBC.

NFPA NATIONAL FIRE CODES, WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900.

OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.

VA SEISMIC DESIGN REQUIREMENTS, H-18-8.

NATIONAL ELECTRICAL CODE (NEC).

INTERNATIONAL PLUMBING CODE (IPC).

SAFETY CODE FOR ELEVATORS AND ESCALATORS, AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) A 17.1.

ASME BOILER AND PRESSURE VESSEL CODE.

ASME CODE FOR PRESSURE PIPING.

ARCHITECTURAL BARRIER ACT ACCESSIBILITY STANDARDS (ABAAS), INCLUDING VA SUPPLEMENT BARRIER FREE DESIGN GUIDE (PG-18-3).

BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318).

MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

ENERGY POLICY ACT OF 2005 (EPACT).

DOE INTERIM FINAL RULE: ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS, 10 CFR PARTS 433,434 AND 435.

FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS: MEMORANDUM OF UNDERSTANDING (MOU).

EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY AND TRANSPORTATION MANAGEMENT.

THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS. STATED IN THE GENERAL REQUIREMENTS SECTION 01 01 0 OF THE VA MASTER CONSTRUCTION SPECIFICATION.

VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1 - 2016.

SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15 - 2007.

VAMC APPROVED HARDWARE LOCKING STANDARDS.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM).

FEDERAL COMMUNICATIONS COMMISSION (FCC), ALL REGULATIONS, PROCEDURES AND STANDARDS FOR TWO-WAY RADIO EQUIPMENT, SYSTEMS AND OPERATION.

ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA).

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO), STANDARDS FOR PROTOCOLS AND INTERFACES THAT INCLUDE OPEN SYSTEM INTERCONNECTIONS (OSI).

JOINT COMMISSION ON ACCREDITATION OF HEALTHCARE ORGANIZATIONS (JACHO), ENVIRONMENT OF CARE GUIDELINES AND STANDARDS.

FACILITIES GUIDELINES INSTITUTE (FGI): 2010, OR MOST CURRENT ISSUE, GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES.

THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) AND NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS (NSPE) RECENT ADDITIONS TO THEIR PROFESSIONAL CODES OF ETHICS ENCOURAGING “ENVIRONMENTALLY RESPONSIBLE DESIGN”.

MECHANICAL GENERAL NOTES

1. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, VA STANDARDS AND SPECIFICATIONS.
3. CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. IN CASES OF CONFLICT BETWEEN MANUFACTURER REQUIREMENTS, DRAWINGS AND SPECIFICATIONS THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
4. COORDINATE INSTALLATION OF EQUIPMENT AND MATERIALS WITH OTHER TRADES.
5. DO NOT ROUTE CONDENSATE PIPING OVER ELECTRICAL PANELS OR ELECTRONIC EQUIPMENT.
6. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND OWNER PRIOR TO ANY CUTTING OF WALLS AND ROOF.
7. IF FLOOR OR RATED WALL PENETRATIONS CANNOT BE FIRE STOPPED AT THE END OF THE WORK SHIFT, TEMPORARY FIRESTOPPING COMPOSED OF MINERAL WOOL SHALL BE INSTALLED IN THE PENETRATION TO PROVIDE PROTECTION AGAINST FIRE/SMOKE SPREAD THROUGH THE UNSEALED PENETRATION.
8. INSTALL GRAVITY DRAIN PIPING WITH A MINIMUM OF 1/8" PER LINEAR FOOT (1%) SLOPE.

FIRE PROTECTION GENERAL NOTES

1. ALL TELECOM ROOMS WITH EXISTING QUICK RESPONSE SPRINKLERS SHALL HAVE THE QUICK RESPONSE SPRINKLER HEAD REPLACED WITH STANDARD RESPONSE FUSIBLE LINK SPRINKLER HEADS.
2. ROOMS THAT DO NOT HAVE CEILINGS (EXPOSED TO STRUCTURE) SHALL HAVE THE BRANCH PIPING MODIFIED TO TURN THE SPRINKLER HEAD UPRIGHT. PROVIDE SPRINKLER PROTECTION CAGE.
3. ROOMS WITH FINISHED CEILINGS SHALL HAVE SPRINKLER LOCATIONS ADJUSTED AS NEEDED FOR APPROPRIATE COVERAGE PER LATEST EDITION OF NFPA 13.
4. TELECOM ROOMS ARE CONSIDERED ORDINARY HAZARD GROUP 1 FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH NFPA 13 AND VA POLICY.
5. MODIFY EXISTING SPRINKLER SYSTEM WITHIN THE LIMITS OF CONSTRUCTION TO COMPLY WITH NFPA 13. PROVIDE TEMPORARY UPRIGHT SPRINKLER HEADS TO PROTECT SPACES WHERE CEILINGS ARE REMOVED FOR CONSTRUCTION UNTIL THE NEW CEILING IS INSTALLED AND NEW DROPS TO NEW PENDENT SPRINKLER ARE INSTALLED. TEMPORARY SPRINKLERS ARE NOT REQUIRED IF NEW OR EXISTING CEILING IS IN PLACE AT THE END OF THE WORK SHIFT.
6. DATA CENTER SPRINKLERS ARE TO BE CAGED STANDARD RESPONSE FUSIBLE LINK TYPE.
7. HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH NFPA 13 AND VA POLICY.
8. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

MECHANICAL DEMOLITION GENERAL NOTES

1. REFER TO ALL DRAWINGS FOR COORDINATION BETWEEN DEMOLITION AND NEW WORK. COORDINATE DEMOLITION WORK WITH THAT OF OTHER TRADES.
2. COORDINATE SALVAGE AND REUSE OF EXISTING EQUIPMENT WITH OWNER. ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
   A) PROTECTING, COVERING AND SEALING EXISTING EQUIPMENT AND SURROUNDINGS DURING DEMOLITION FROM DIRT, DUST, AND DEBRIS.
   B) ENSURING THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION.
   C) PREVENTING INJURY TO PERSONS AND DAMAGE TO PROPERTY.
   D) PROVIDING ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE.
   E) IMMEDIATELY REPAIRING DAMAGED PROPERTY TO ITS CONDITION BEFORE BEING DAMAGED.
   F) TAKING EFFECTIVE MEASURES TO PREVENT DUST MIGRATION.
4. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING AREAS OUTSIDE OF PRESENT SCOPE WITHOUT FIRST OBTAINING PERMISSION FROM OWNER. PROVIDE TEMPORARY SERVICES AS REQUIRED.
5. REMOVE AND DISPOSE OF EXISTING MECHANICAL EQUIPMENT AS SHOWN, UNLESS NOTED OTHERWISE. COORDINATE WITH ARCHITECTURAL PLANS, AREAS OF DEMOLITION AROUND, ADJACENT, OR DISCHARGED TO EXISTING MECHANICAL EQUIPMENT THAT IS TO REMAIN.

VA HVAC GENERAL NOTES

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE HARD SUSPENDED CEILING, OR ACOUSTICAL CEILING.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
3. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS. COORDINATE LOCATION WITH MECHANICAL INSTALLATION AND DEMONSTRATE ACCESS TO EQUIPMENT SERVED.
4. EXTERNAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. LOSS FOR FILTERS SHALL BE FOR FILTERS AT 50% LOADING.
5. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
6. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
7. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTERFLOW BETWEEN WATER AND AIR.
8. WALL TYPE EXHAUST REGISTERS NOTED AS "BR" ON DRAWINGS ARE TO BE INSTALLED WITH BOTTOM ELEVATION OF REGISTER AT 7" ABOVE FINISHED FLOOR.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
10. ALL TELECOMMUNICATION ROOMS SHALL HAVE A MOISTURE SENSOR INSTALLED AT LOWEST POINT FOR WATER DETECTION.
11. ALL EXISTING DOMESTIC WATER, SANITARY SEWER, STORM DRAIN, AND HYDRONIC PIPING IN TELECOMMUNICATION SPACES THAT DOES NOT TERMINATE AT THE SPACE SHALL BE PROVIDED WITH A DRIP PAN AND A MOISTURE SENSOR AT THE LOWEST POINT OF THE DRIP PAN.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL GENERAL NOTES
Phase: 100% CONSTRUCTION DOCUMENTS
Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number: 528A7-22-700
Building Number:
Approved:
Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number: M-001
Issue Date: 08/22/2025
Checked: MGH/JW
Drawn: AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_M-001_ME_SDB.rvt
8/20/2025 8:16:11 AM

VA FORM 08 - 6231

LEGEND

PIPING LEGEND

	GATE VALVE
	BALL VALVE
	BALL VALVE WITH MEMORY STOP (BALANCING VALVE)
	UNION OR FLANGE (AS INDICATED BY PIPE SIZE - SEE SPEC.)
	BLIND FLANGE
	END CAP
	CHECK VALVE
	BUTTERFLY VALVE
S-60	HIGH PRESSURE STEAM (60 PSIG AND ABOVE)
CR-60	HIGH PRESSURE STEAM CONDENSATE RETURN
S-30	MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG)
CR-30	MEDIUM PRESSURE STEAM CONDENSATE RETURN
S-15	LOW PRESSURE PRESSURE STEAM (15 PSIG AND BELOW)
CR-15	LOW PRESSURE STEAM CONDENSATE RETURN
PC	PUMPED CONDENSATE
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
GHS	GLYCOL-WATER HEATING SUPPLY
GHR	GLYCOL-WATER HEATING RETURN
RL/RS	REFRIGERANT LIQUID/SUCTION
RHG	REFRIGERANT HOT GAS
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
GCS	CHILLED GLYCOL-WATER SUPPLY
GCR	CHILLED GLYCOL-WATER RETURN
D	CONDENSATE DRAIN
G	NATURAL GAS (1/2 PSI OR LESS)
ICWS	INDUSTRIAL COLD WATER SUPPLY
ICWR	INDUSTRIAL COLD WATER RETURN
DCW	DOMESTIC COLD WATER
X	EXISTING PIPE TO BE REMOVED
	RISE (SINGLE LINE - PLAN VIEW)
	DROP (SINGLE LINE - PLAN VIEW)
	TOP TAKEOFF
	BOTTOM TAKEOFF
	PIPE BREAK (SINGLE LINE)

ADDITIONAL SYMBOLS

- 2 / H4 — DETAIL NUMBER; DRAWING NUMBER WHERE DRAWN
- A / H7 — SECTION LETTER; DRAWING NUMBER WHERE SHOWN
- 26-SF 3 OR 26-SF 3 — BUILDING NO. WHERE EQUIPMENT IS LOCATED; EQUIPMENT ABBREVIATION (SUPPLY FAN); SUPPLY FAN NO. 3 IN BUILDING NO. 26; TYPICAL UNIT NO.
- 26-TU-I-I OR 26-TU-I-I — BUILDING NO. WHERE EQUIPMENT IS LOCATED; ITEM (TERMINAL UNIT SHOWN); ITEM NUMBER (TERMINAL UNIT NO. 1); SERVED BY AIR HANDLER UNIT NO. 1

DUCTWORK SYMBOLS

SINGLE LINE	DOUBLE LINE	SINGLE LINE	DOUBLE LINE
ROUND DUCT UP		RETURN DUCT UP	
ROUND DUCT DOWN		EXHAUST DUCT UP	
SUPPLY DUCT UP		RETURN DUCT DOWN	
SUPPLY DUCT DOWN		EXHAUST DUCT DOWN	
		HORIZONTAL OFFSET SUPPLY/RETURN /EXHAUST	
OR STANDARD RADIUS ELBOW (R= W) SUPPLY/RETURN /EXHAUST	R, W	RISE/DROP	RISE OR DROP SUPPLY/RETURN/ EXHAUST; RISE UP; DROP DN
TURNING VANES		45°F TAP TAKE-OFF	
OR BULLHEAD SPLIT SUPPLY		RECT. TAP; ROUND DUCT; ROUND TAP; 90°F TAP TAKE-OFF; RECT TAP; RECTANGULAR MAIN DUCT	
CEILING DUCT MTD. DIFF/GRILLE		ROUND TAKEOFF; 90°F TAP TAKE-OFF; ROUND MAIN DUCT	
TAKEOFF TO DIFF/GRILLE; HARD ELBOW		BULLHEAD CONVERGE RETURN/EXHAUST	
CEILING DUCT MTD. DIFF/GRILLE		SIDEWALL DUCT MTD. REG./GRILLE	
ACOUSTICALLY LINED DUCT		SUPPLY SIDEWALL LINEAR DIFFUSER (W/SHEET METAL PLENUM W/1" LINING & BRANCH CONN FOR EVERY 4' OF LENGTH); VD	
DUCTWORK OR EQUIPMENT TO BE REMOVED			
OPEN END DUCT W/ 1/4"x1/4" WMS		SUPPLY CEILING LINEAR DIFFUSER (W/SHEET METAL PLENUM W/1" LINING & BRANCH CONN FOR EVERY 4' OF LENGTH); VD; BOOT BY LD MF'R	
FLEXIBLE DUCT			

ADDITIONAL SYMBOLS

- BD — BACKDRAFT DAMPER
- M — MOTORIZED DAMPER
- STANDARD 4-WAY BLOW SUPPLY DIFFUSER
- BLANKED FOR 3-WAY BLOW SUPPLY DIFFUSER
- OR BLANKED FOR 2-WAY BLOW SUPPLY DIFFUSER
- BLANKED FOR 1-WAY BLOW SUPPLY DIFFUSER
- W"/H" — WIDTH AND HEIGHT IN INCHES FOR FLAT OVAL DUCT
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- LIMIT OF DEMOLITION
- T — TEMPERATURE SENSOR OR THERMOSTAT
- H — ROOM HUMIDISTAT
- M — MOISTURE SENSOR
- R — REFRIGERANT SENSOR
- 1 — FIRE DAMPER

AIR OUTLET CALLOUT

1. AIR OUTLET TYPE
2. NECK SIZE (IN)
3. AIRFLOW (CFM)

FIRE PROTECTION

- PENDENT SPRINKLER
- UPRIGHT SPRINKLER WITH GUARD
- ZCV — ZONE CONTROL VALVE

DESIGN CONDITIONS

INDOOR DESIGN CONDITIONS

ROOM TYPE	SUMMER		WINTER	
	TEMP DB (°F)	REL HUM (%)	TEMP DB (°F)	REL HUM (%)
DATA ROOM	80.6 °F	30-60	80.6 °F	30-60

OUTDOOR DESIGN CONDITIONS

STATE	COUNTY	WMO STATION IDENTIFIER	ALTITUDE (FT)	CLIMATE ZONE	SUMMER		WINTER	
					TEMP DB (°F)	TEMP DB (°F)	TEMP DB (°F)	TEMP WB (°F)
NEW YORK	ONONDAGA	725190	413	5A	89.1 °F	73.1	-1.5 °F	N/A

ABBREVIATIONS

ABS:	ACRYLONITRILE BUTADIENE STYRENE
AC:	ALTERNATING CURRENT
ACR:	AIR CONDITIONING AND REFRIGERATION
A/E:	ARCHITECT/ENGINEER
AFF:	ABOVE FINISH FLOOR
AFG:	ABOVE FINISH GRADE
AG:	AIR GAP
AI:	ANALOG INPUT
AISI:	AMERICAN IRON AND STEEL INSTITUTE
AO:	ANALOG OUTPUT
ASHRAE:	AMERICAN SOCIETY OF HEATING REFRIGERATION, AIR CONDITIONING ENGINEERS
ASJ:	ALL SERVICE JACKET
ASME:	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE:	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASR:	AUTOMATIC SPRINKLER RISER
AWG:	AMERICAN WIRE GAUGE
BACNET:	BUILDING AUTOMATION AND CONTROL NETWORK
BAG:	SILVER-COPPER-ZINC BRAZING ALLOY
BAS:	BUILDING AUTOMATION SYSTEM
BCUP:	SILVER-COPPER-PHOSPHORUS BRAZING ALLOY
BFP:	REDUCED PRESSURE BACKFLOW PREVENTER
BHP:	BRAKE HORSEPOWER
BTU:	BRITISH THERMAL UNIT
BTU/H:	BRITISH THERMAL UNIT PER HOUR
BSG:	BOROSILICATE GLASS PIPE
C:	CELSIUS
CD:	COMPACT DISK
CDA:	COPPER DEVELOPMENT ASSOCIATION
CGA:	COMPRESSED GAS ASSOCIATION
CFM:	CUBIC FEET PER MINUTE
CO:	CLEANOUT
COR:	CONTRACTING OFFICER'S REPRESENTATIVE
CPVC:	CHLORINATED POLYVINYL CHLORIDE
CR:	CHLOROPRENE
CRS:	CORROSION RESISTANT STEEL
CV:	CONTROL VALVE
CXA	COMMISSIONING AGENT
DB:	DECIBELS
DB(A):	DECIBELS (A WEIGHTED)
DDC:	DIRECT DIGITAL CONTROL
DFU:	DRAINAGE FIXTURE UNITS
DI:	DIGITAL INPUT
DI:	DEIONIZED WATER
DISS:	DIAMETER INDEX SAFETY SYSTEM
DN:	DIAMETER NOMINAL
DO:	DIGITAL OUTPUT
DOE:	DEPARTMENT OF ENERGY
DVD:	DIGITAL VIDEO DISC
DW:	DISHWASHER
DWG:	DRAWING
DWV:	DRAINAGE, WASTE AND VENT
ECC:	ENGINEERING CONTROL CENTER AKA BAS
EL:	ELEVATION
EPA:	ENVIRONMENTAL PROTECTION AGENCY
EPACT:	ENERGY POLICY ACT
EPDM:	ETHYLENE PROPYLENE DIENE MONOMER
EPT:	ETHYLENE PROPYLENE TERPOLYMER
ETO:	ETHYLENE OXIDE
EX:	EXISTING
F:	FAHRENHEIT
FAR:	FEDERAL ACQUISITION REGULATIONS
FCO:	FLOOR CLEANOUT
FD:	FLOOR DRAIN
FDC:	FIRE DEPARTMENT (HOSE) CONNECTION
FNPT:	FEMALE NATIONAL PIPE THREAD
FOP:	FUEL OIL PUMP
FOR:	FUEL OIL RETURN
FOS:	FUEL OIL SUPPLY
FOV:	FUEL OIL VENT
FPM:	FLUOROELASTOMER POLYMER
FS:	FLOW SWITCH
FSK:	FOIL-SCRIM-KRAFT FACING
FSS:	VA CONSTRUCTION & FACILITIES MANAGEMENT, FACILITY STANDARDS SERVICE
FU:	FIXTURE UNITS
ICHS:	INTERMEDIATE CHILLED WATER SUPPLY
ICHR:	INTERMEDIATE CHILLED WATER RETURN
N2:	NITROGEN
N20:	NITROGEN OXIDE
NC:	NORMALLY CLOSED
NF:	OIL FREE DRY (NITROGEN)
NG:	NATURAL GAS
NIC:	NOT IN CONTRACT
NO:	NORMALLY OPEN
NOM:	NOMINAL
NPTF:	NATIONAL PIPE THREAD FEMALE
NPS:	NOMINAL PIPE SIZE
NPT:	NOMINAL PIPE THREAD
NTS:	NOT TO SCALE
O2:	OXYGEN
OC:	ON CENTER
OCAMES:	REPLACED BY HEFP
OD:	OUTSIDE DIAMETER
OR:	OPERATING ROOM
OSD:	OPEN SIGHT DRAIN
OS&Y:	OUTSIDE STEM AND YOKE
OXY:	OXYGEN
P	PUMP
Pa	PASCAL
PC	PUMPED CONDENSATE
PCF	POUNDS PER CUBIC FOOT (FEET)
PD	PRESSURE DROP
PEF	PROPELLER (TYPE) EXHAUST FAN
PF	PRE-FILTER
PGW	PROPYLENE GLYCOL-WATER (SOLUTION)
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PRS	PRESSURE REGULATING (VALVE) STATION
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
PTAC	PACKAGED TERMINAL AIR CONDITIONER
R/E	RETURN OR EXHAUST
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RAF	RADIO FREQUENCY
RAHX	ROTARY AIR HEAT EXCHANGER
RAT	RETURN AIR TEMPERATURE
RCCH	REMOTE CONDENSER CHILLER
RCU	RECIPROCATING CHILLER UNIT
RD	REFRIGERANT DISCHARGE
RDS	ROOM DATA SHEETS
REA	RELIEF AIR
RELAD	RELIEF AIR DAMPER
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
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
SCI	SPINAL CODE INJURY
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SD	SUPPLY AIR DIFFUSER
SD-1	SCHEMATIC DESIGN (SUBMISSION1)
SD-2	SCHEMATIC DESIGN (SUBMISSION2)
SDPR	SMOKE DAMPER
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
SEN	SENSIBLE HEAT
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
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
SSHX	STEAM TO STEAM HEAT EXCHANGER
SSR	SOLID SEPARATOR
ST	STEAM TRAP
SUH	STEAM UNIT HEATER
SV	STEAM PRESSURE REDUCING VALVE
SVS	STEAM VENT SILENCER
SW	SOFTWATER
SWHX	STEAM TO WATER HEAT EXCHANGER
T&PCV	TEMPERATURE AND PRESSURE CONTROL VALVE
TAB	TESTING, ADJUSTING, BALANCE
TD	TEMPERATURE DIFFERENCE
TDH	TOTAL DYNAMIC HEAD
TDS	TOTAL DISSOLVED SOLIDS
TG	TRANSFER GRILLE
TP	TRAP
TR	TOP REGISTER
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
TWU	THRU-WALL UNIT
W:	WASTE
WAGD:	WASTE ANESTHESIA GAS DISPOSAL
WC:	WATER CLOSET
WCO:	WATER CLEANOUT
WG:	WATER GAUGE
WH:	WALL HYDRANT
WOG:	WATER, OIL, GAS
WPD:	WATER PRESSURE DROP
WS:	WASTE STACK
WSFU:	WATER SUPPLY FIXTURE UNITS
YCO:	YARD CLEANOUT
YH:	YARD HYDRANT
ZCV:	ZONE CONTROL VALVE

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

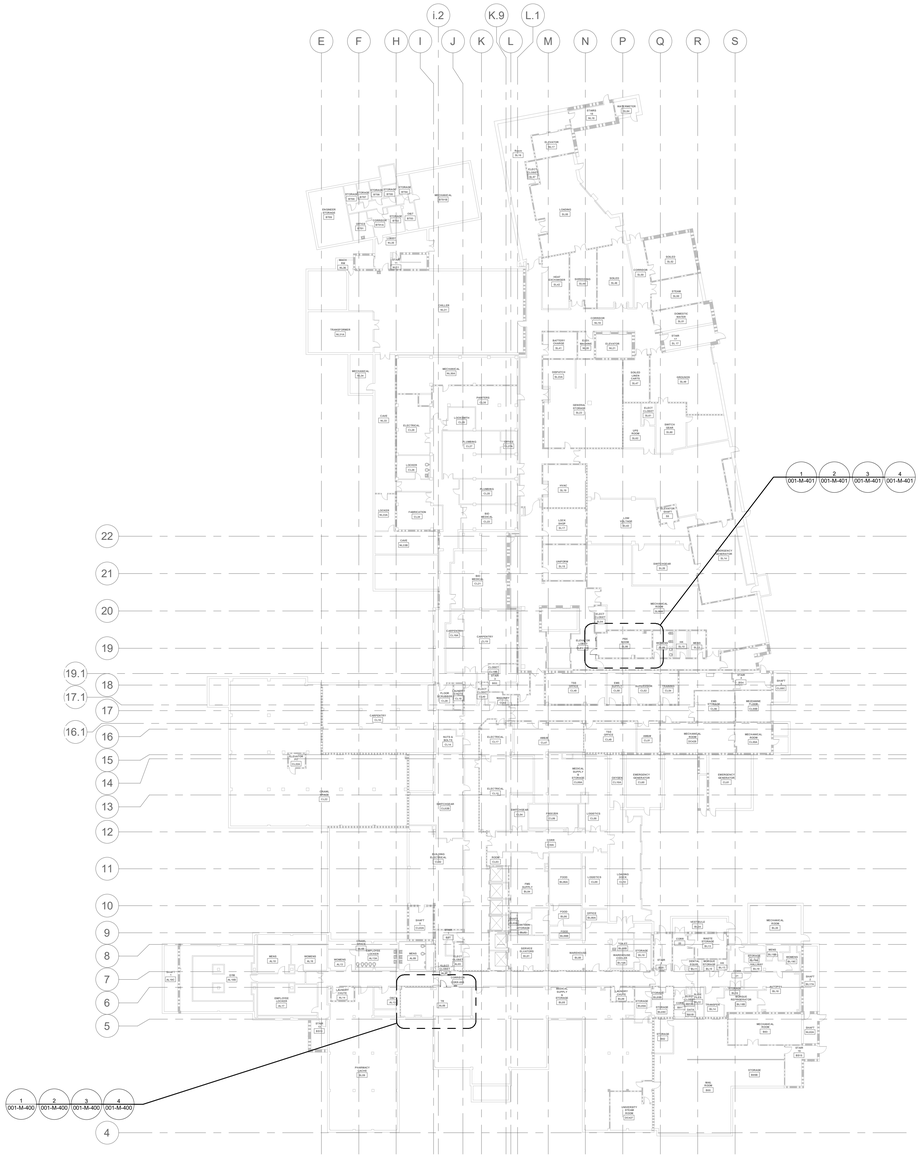
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL ABBREVIATIONS & LEGENDS
Phase	100% CONSTRUCTION DOCUMENTS
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	
Approved:	
Location	VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Drawing Number	M-002

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_M-001_ME_SDB.rvt
8/20/2025 8:16:12 AM

VA FORM 08 - 6231



1 LEVEL 00B - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 00B - OVERALL PLAN
Approved:	
Phase	100% CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Project Number	528A7-22-700
Building Number	001
Drawing Number	001-M-100

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:15:58 PM

VA FORM 08 - 6231

1 LEVEL 00G - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 00G - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-101
		Issue Date 08/22/2025 · **Checked** MGH/JW · **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_S2B.rvt
8/20/2025 1:16:02 PM

VA FORM 08 - 6231

1 LEVEL 01 - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

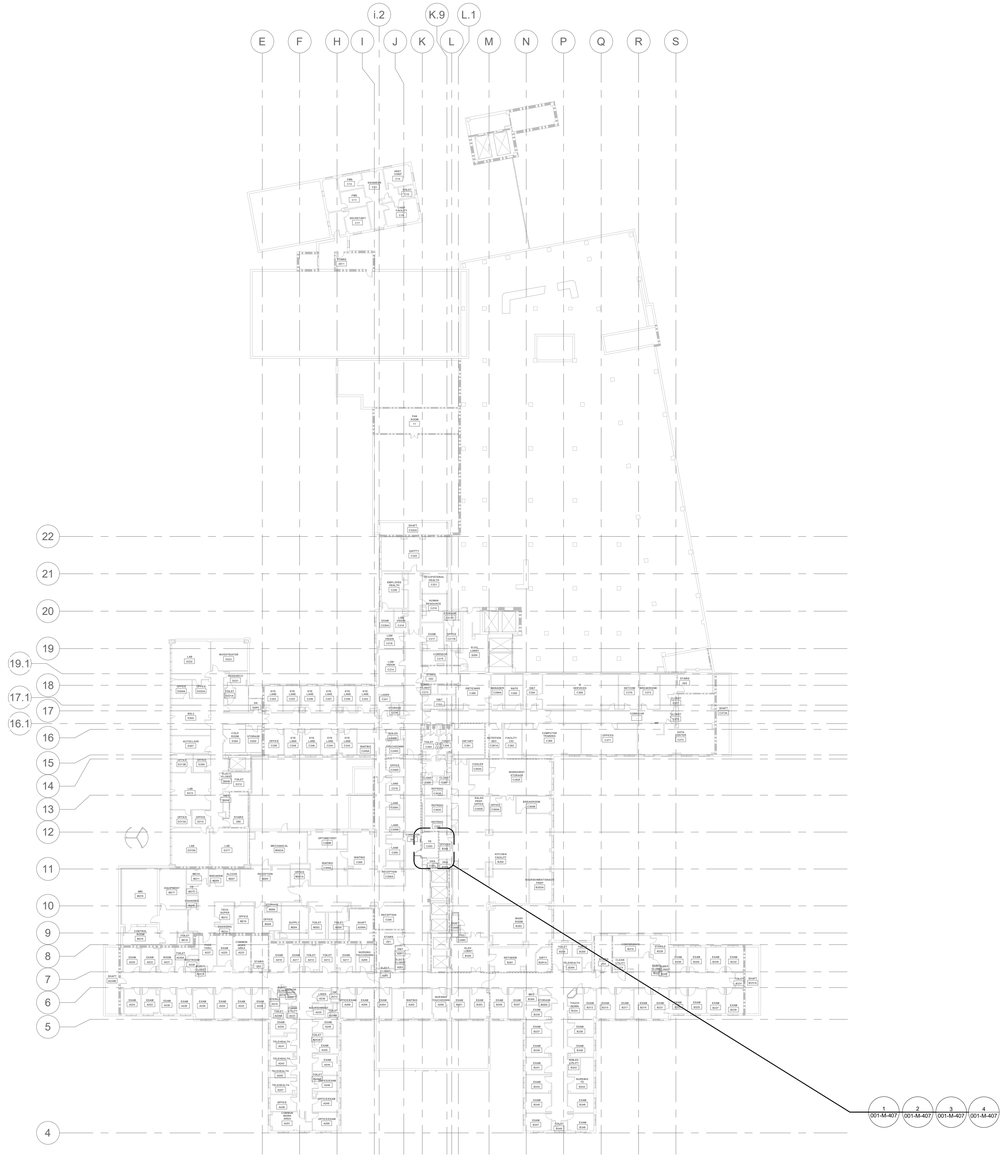
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 01 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-102
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:07 PM

VA FORM 08 - 6231



3 LEVEL 02 - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	**Date:**

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

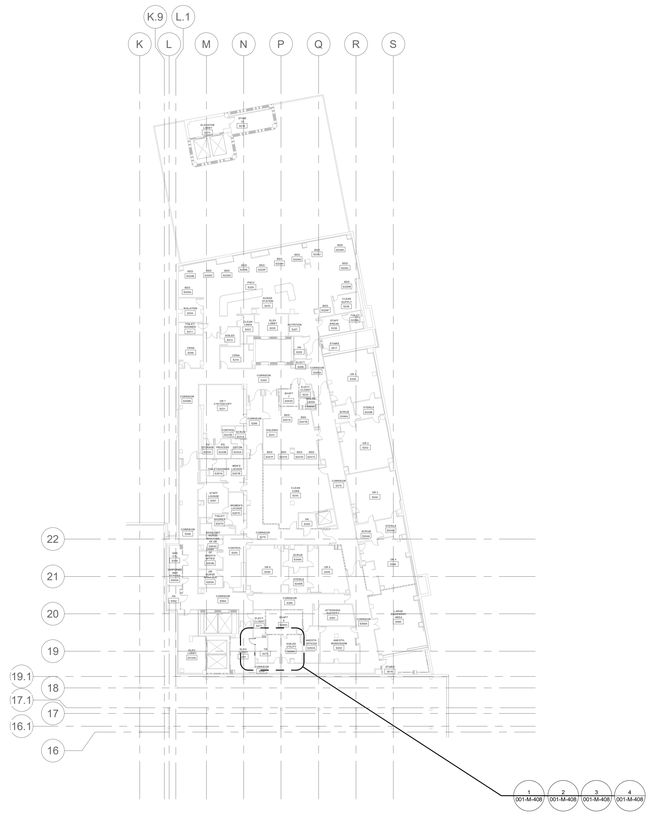
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 02 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-103
		Issue Date 08/22/2025 · **Checked** MGH/JW · **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:10 PM

VA FORM 08 - 6231



1 LEVEL 02.5 - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 001 - LEVEL - 02.5 - OVERALL PLAN

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number
528A7-22-700

Building Number
001

Approved:

FULLY SPRINKLERED

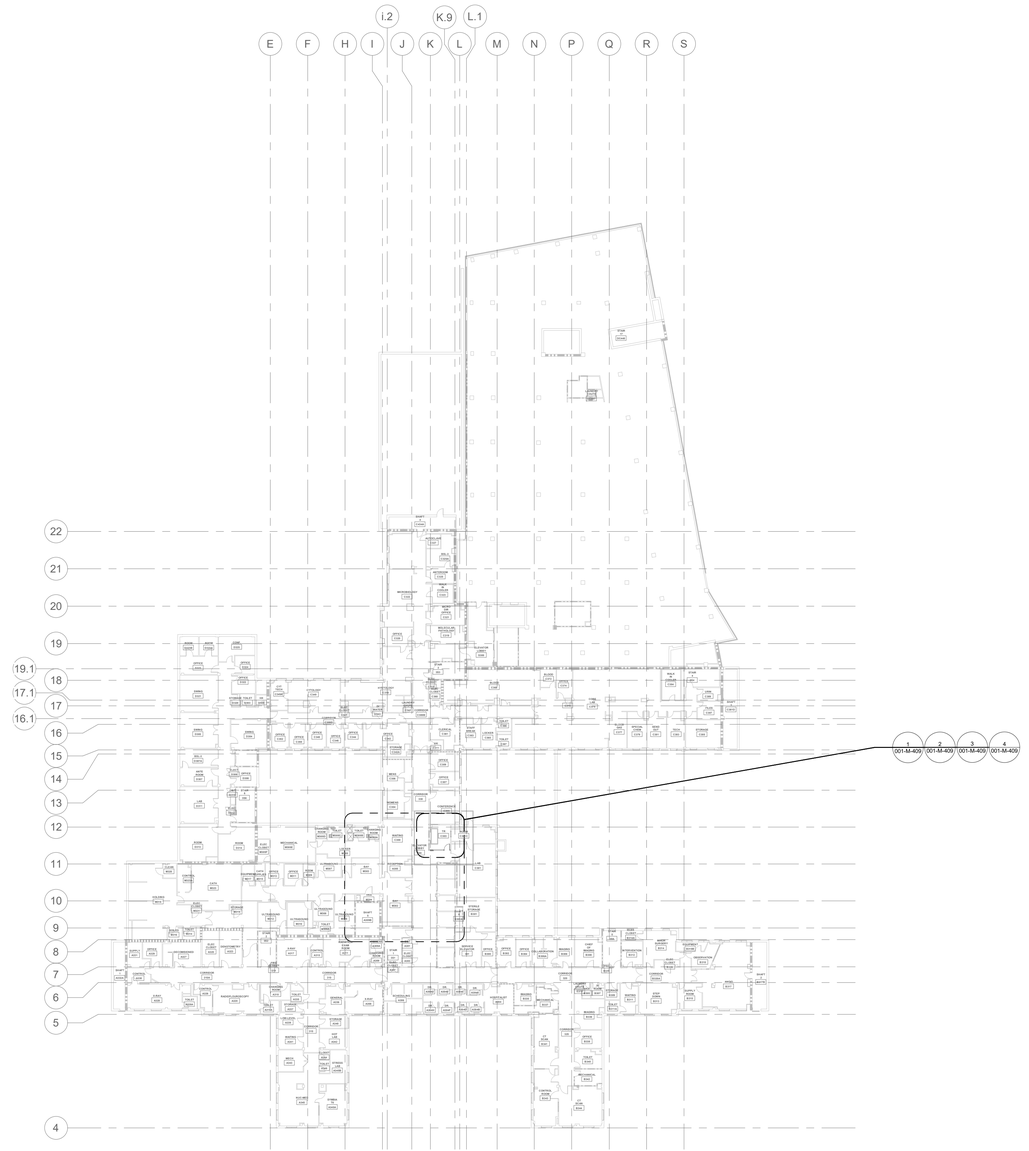
Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Drawing Number
001-M-104

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:12 PM

VA FORM 08 - 6231



1 LEVEL 03 - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	**Date:**

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

RACHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 001 - LEVEL - 03 - OVERALL PLAN

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number
528A7-22-700

Building Number
001

Approved:

FULLY SPRINKLERED

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date
08/22/2025

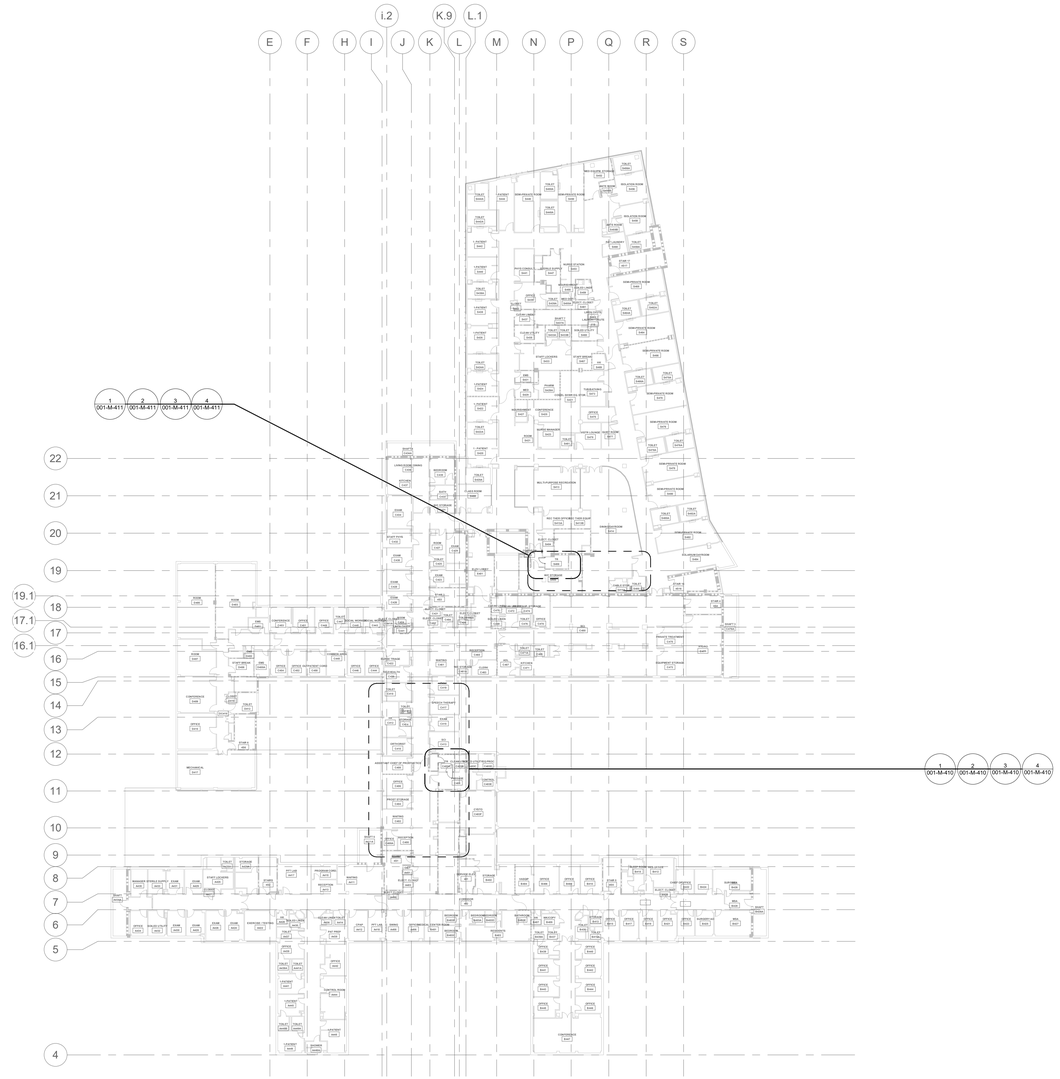
Checked
MGH/JW

Drawn
AP/CY/EA/JJ/MA

Drawing Number
001-M-105

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:16 PM

VA FORM 08 - 6231



3 LEVEL 04 - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	**Date:**

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 04 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-106
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:19 PM

VA FORM 08 - 6231

1 LEVEL 05 - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

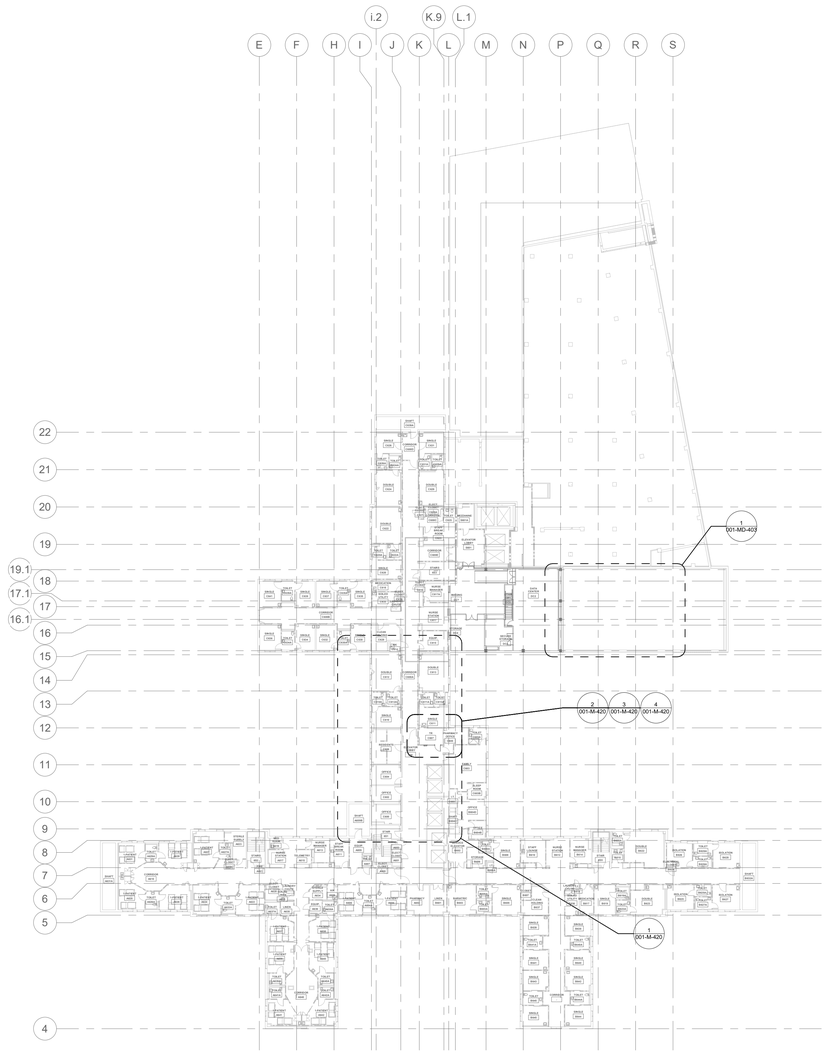
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 05 - OVERALL PLAN
Approved:	
Phase	100% CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Project Number	528A7-22-700
Building Number	001
Drawing Number	001-M-107

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:22 PM

VA FORM 08 - 6231



1 LEVEL 06 - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure Upgrades/VASY_01_ME_S2B.rvt
8/20/2025 1:16:29 PM

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

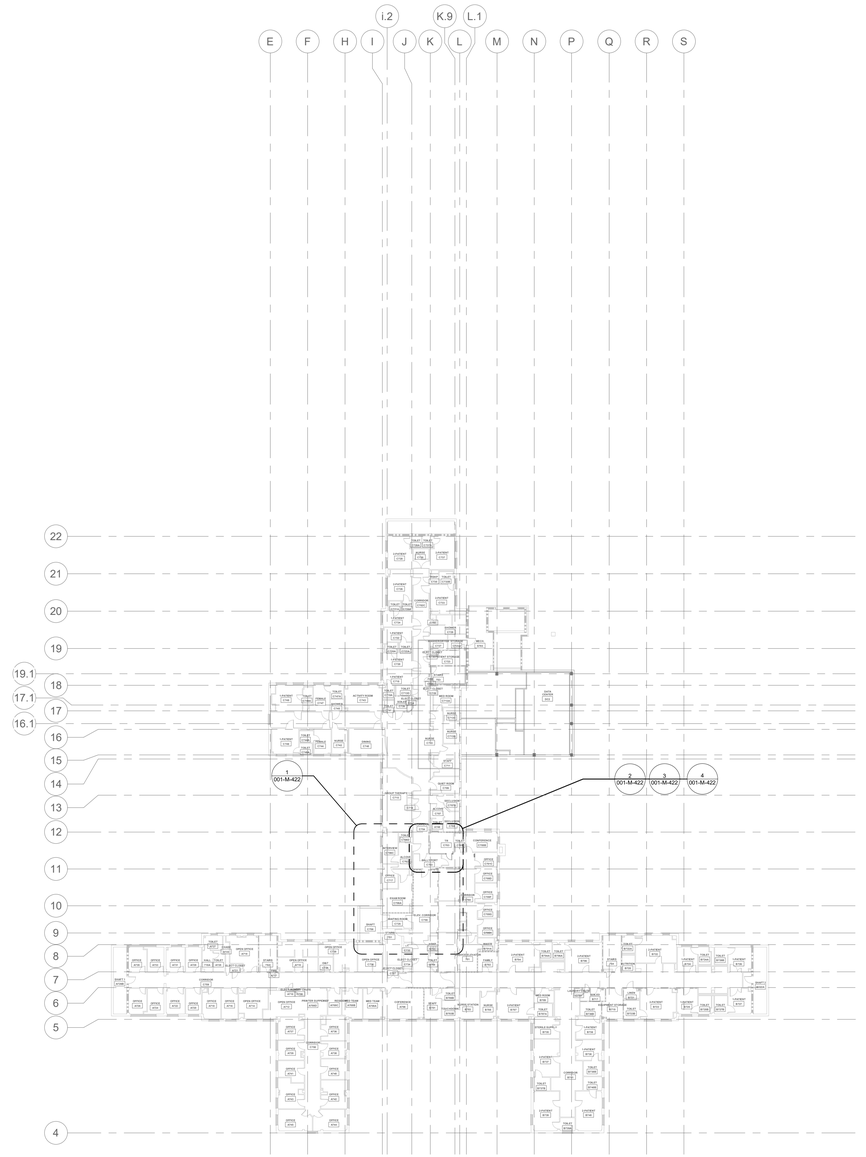
MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 06 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-M-108

VA FORM 08 - 6231



1 LEVEL 07 - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

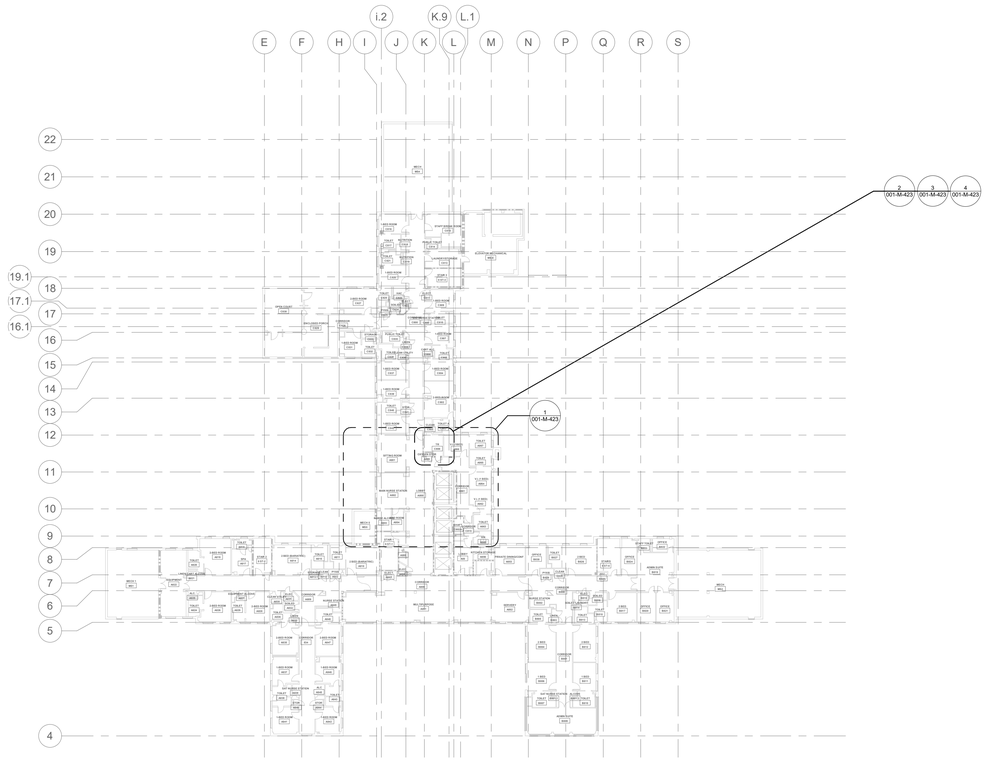
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 07 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-109
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:32 PM

VA FORM 08 - 6231



1 LEVEL 08 - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

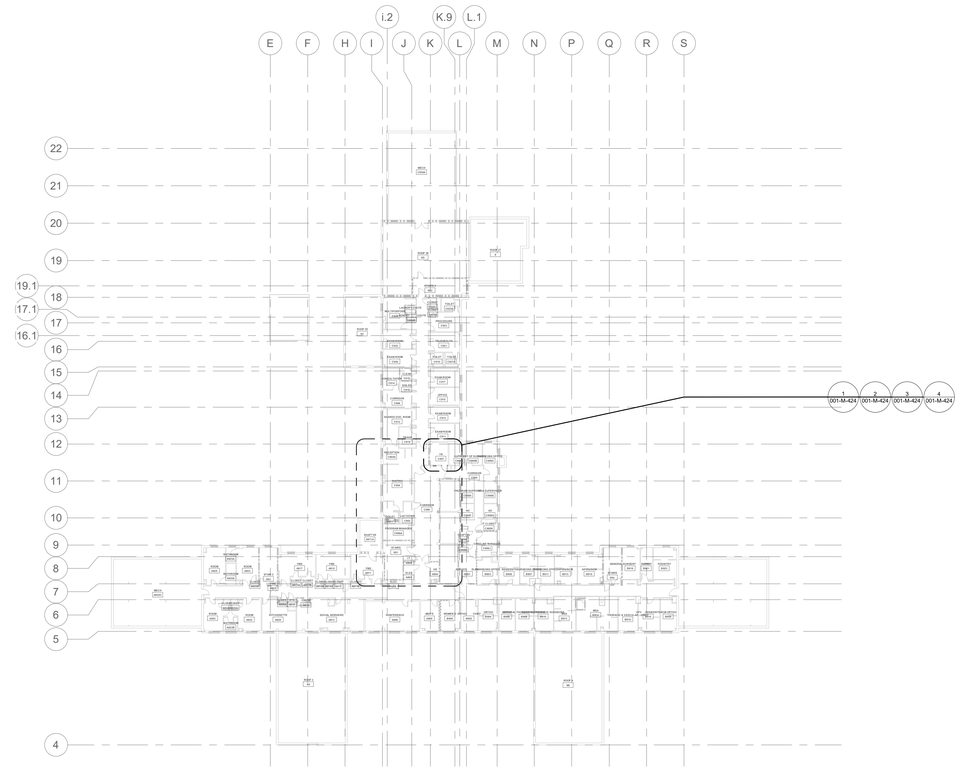
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 08 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-M-110

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:34 PM

VA FORM 08 - 6231



1 LEVEL 09 - OVERALL PLAN

1/32" = 1'-0"

PROJECT NORTH

SITE PLAN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

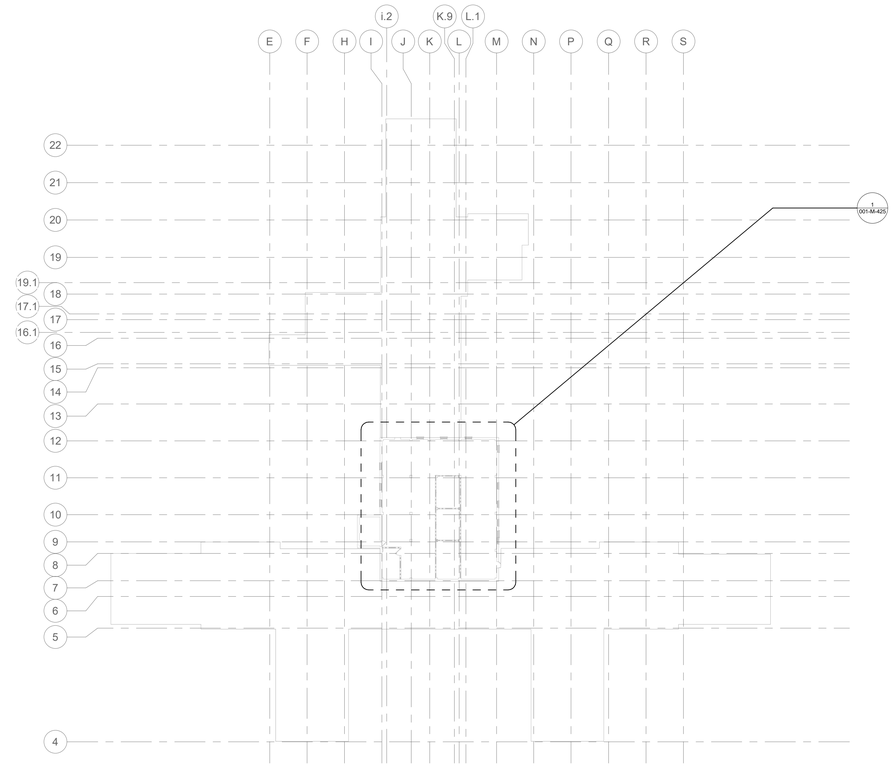
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 09 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-111
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:37 PM

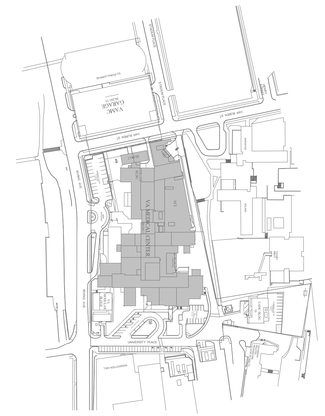
VA FORM 08 - 6231



1 LEVEL 10 - OVERALL PLAN
1/32" = 1'-0"

PROJECT NORTH

SITE PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

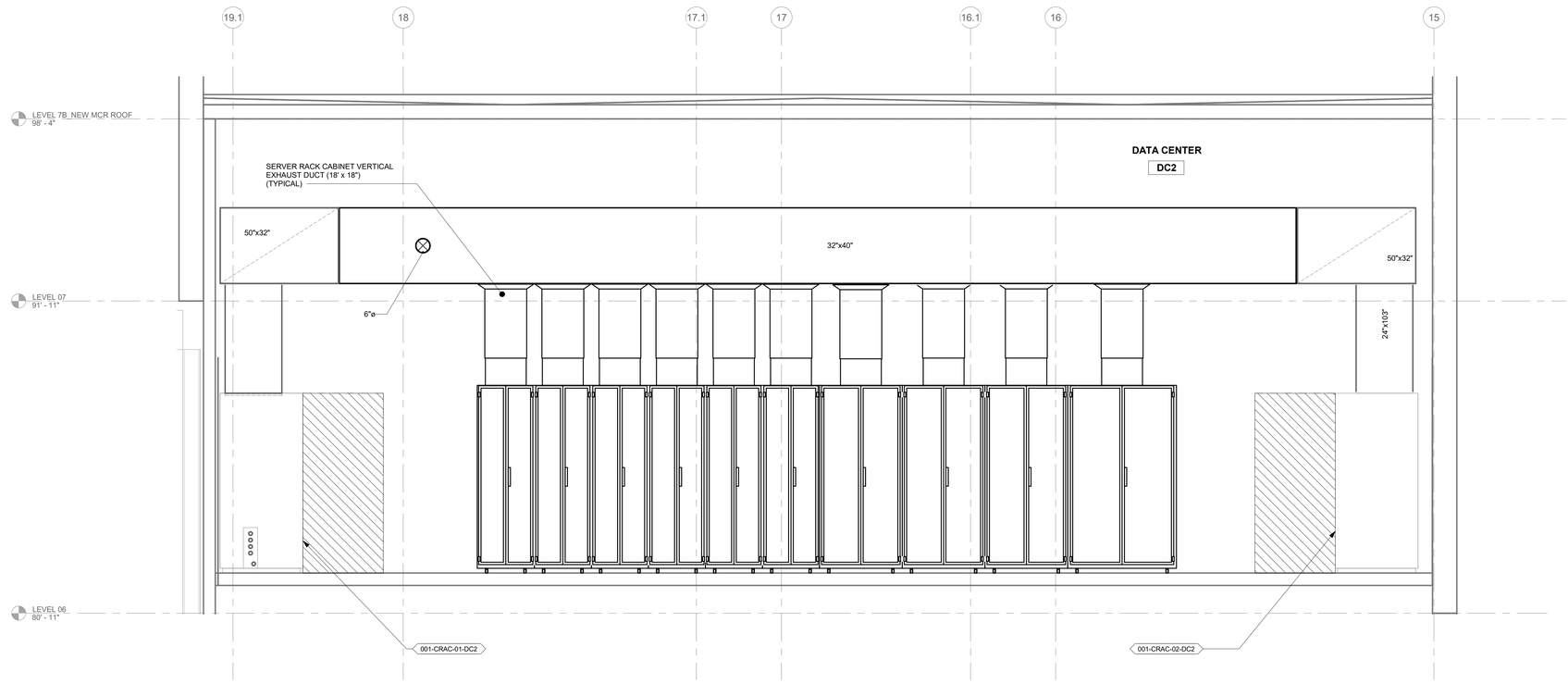
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 10 - OVERALL PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-112
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:38 PM

VA FORM 08 - 6231



1 DATA CENTER SECTION VIEW
1/2" = 1'-0"

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

RACHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
LEVEL 06 - DATA CENTER - DC2 SECTION VIEW I

Approved:

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

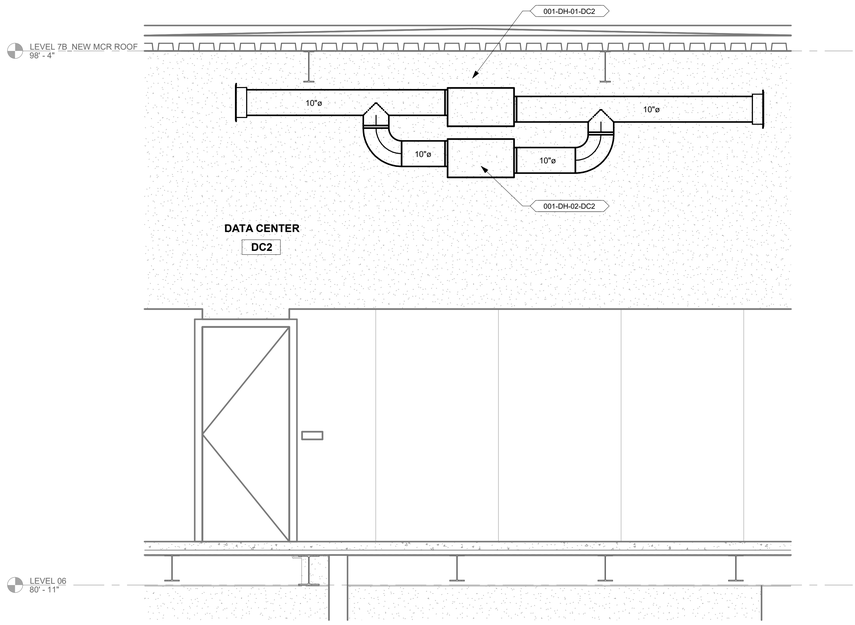
Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date 08/22/2025
Checked MGH/JW
Drawn AP/CY/EA/JJ/MA

Project Number 528A7-22-700
Building Number 001
Drawing Number 001-M-301

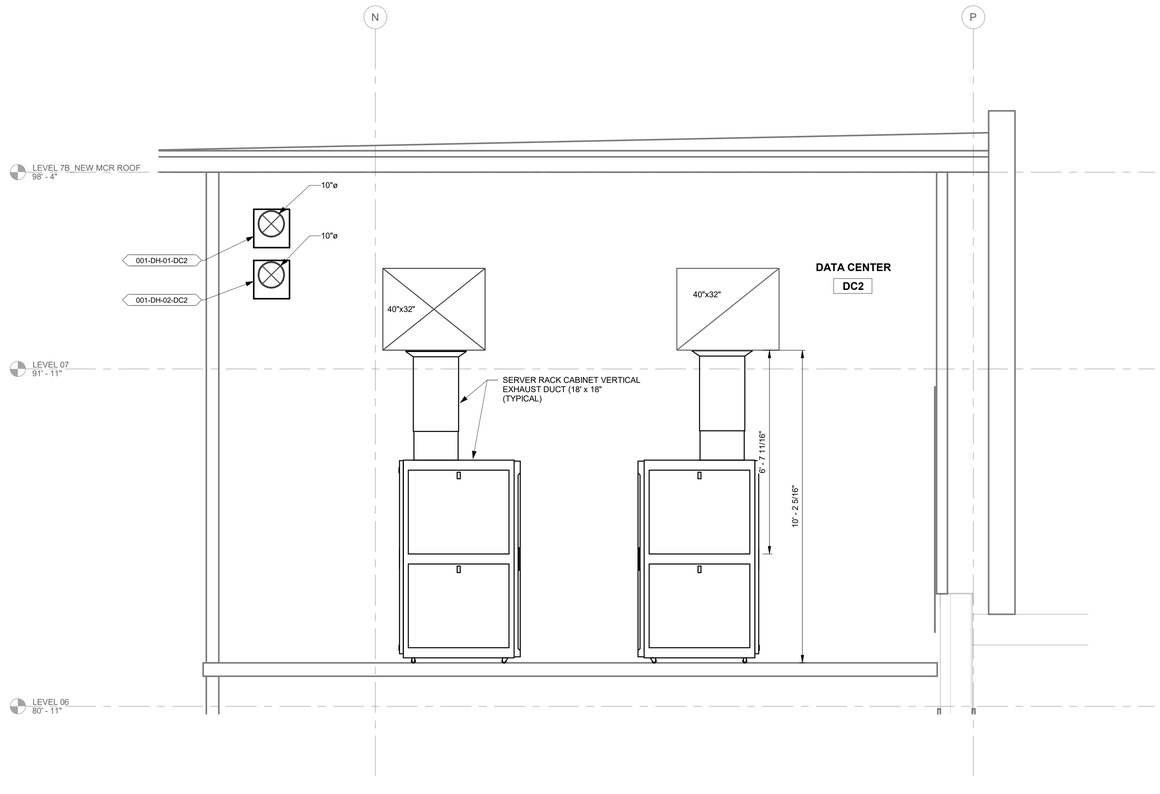
Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:38 PM

VA FORM 08 - 6231



2 DEHUMIDIFIER SECTION VIEW

1/2" = 1'-0"



1 DATA CENTER SECTION VIEW

1/2" = 1'-0"

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
LEVEL 06 - DATA CENTER - DC2 SECTION VIEW II

Approved:

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

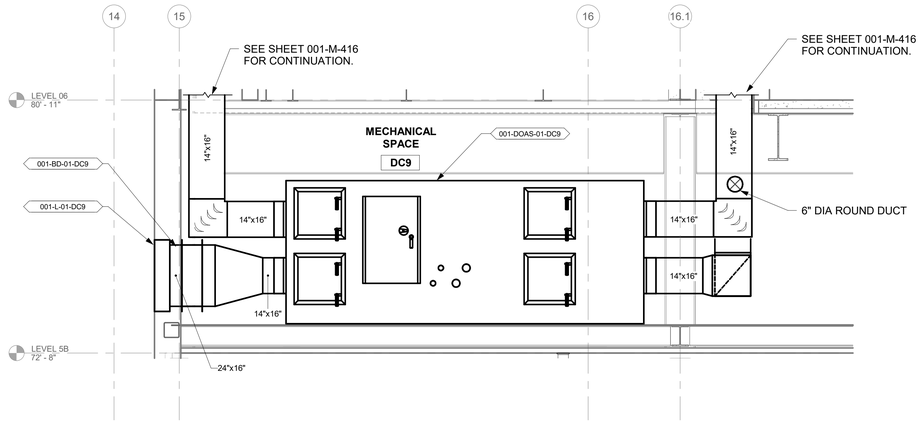
Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date 08/22/2025
Checked MGH/JW
Drawn AP/CY/EA/JJ/MA

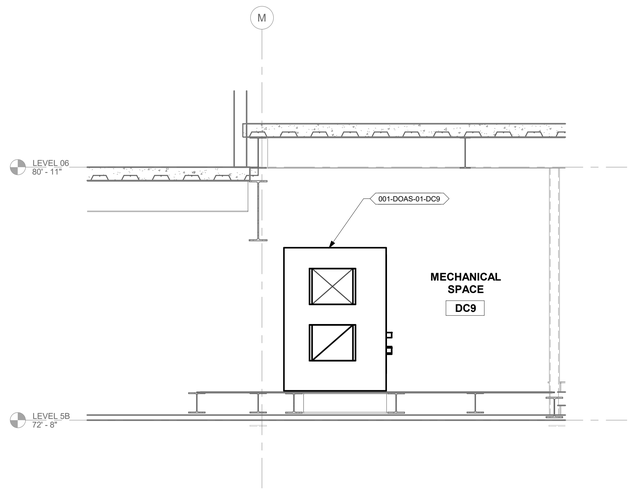
Project Number 528A7-22-700
Building Number 001
Drawing Number 001-M-302

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:40 PM

VA FORM 08 - 6231



1 DOAS SECTION VIEW
1/2" = 1'-0"



2 DOAS SECTION VIEW
1/2" = 1'-0"

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

RACHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
LEVEL 06 - DATA CENTER - DC9 DOAS SECTION VIEW

Approved:

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

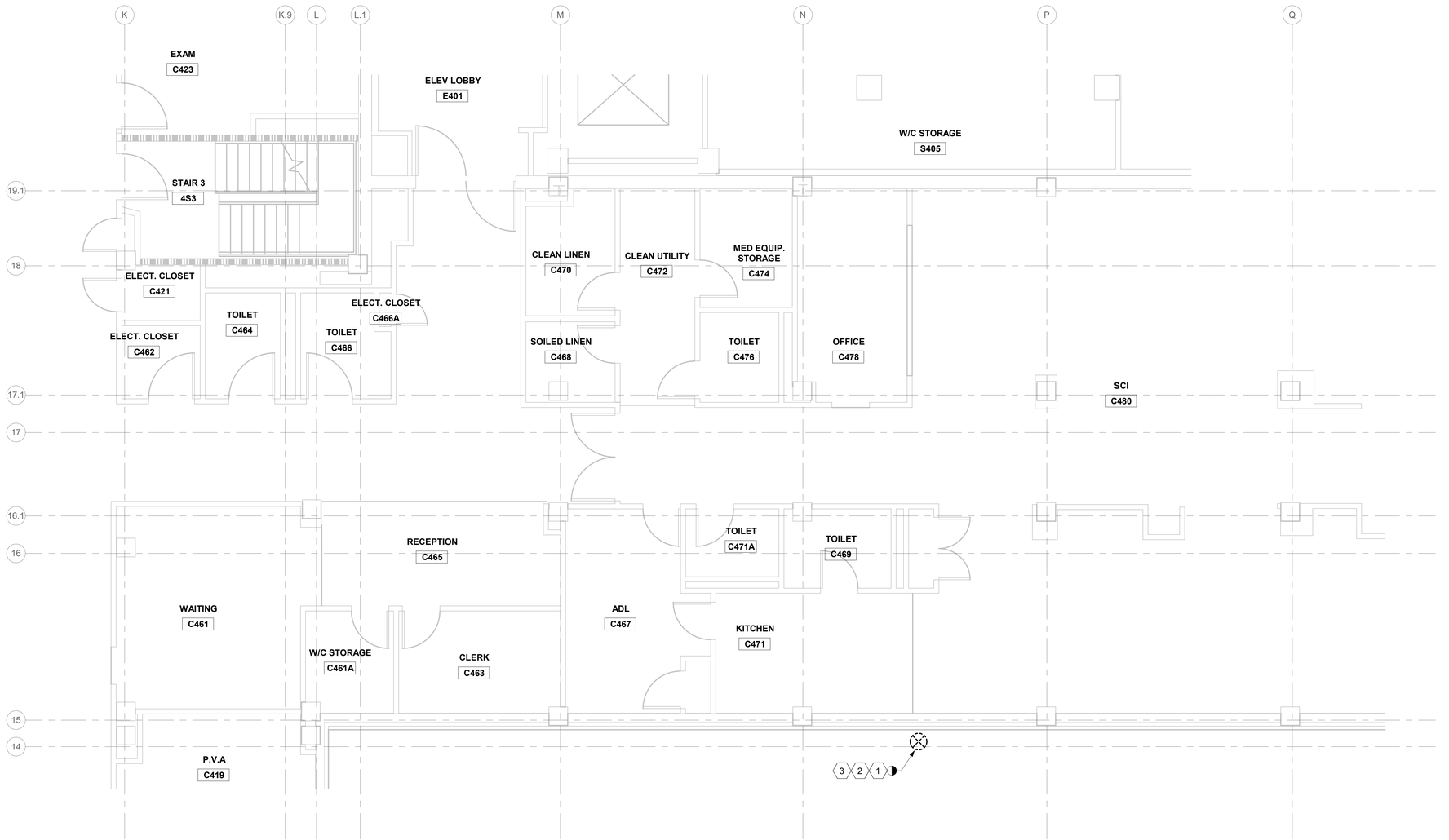
Project Number
528A7-22-700

Building Number
001

Drawing Number
001-M-303

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:41 PM

VA FORM 08 - 6231



1 LEVEL 04 - DATA CENTER - DEMOLITION HVAC DUCTING PLAN

1/4" = 1'-0"

PROJECT NORTH

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

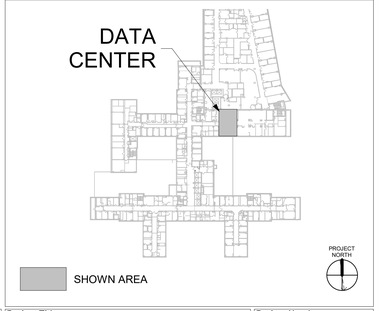
KEYNOTES (#)

(1) FOR CONTINUATION, SEE SHEET 001-MD-402.

(2) CONTRACTOR TO VERIFY SIZE AND INSTALL NEW DUCTWORK SAME SIZE AND TYPE. FOR NEW DUCTWORK SEE SHEET 001-M-411.

(3) DUCTWORK SERVES LABORATORY FUME HOODS. DUCTWORK DEMOLITION AND INSTALL SHALL BE COORDINATED WITH VA COR.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED — PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

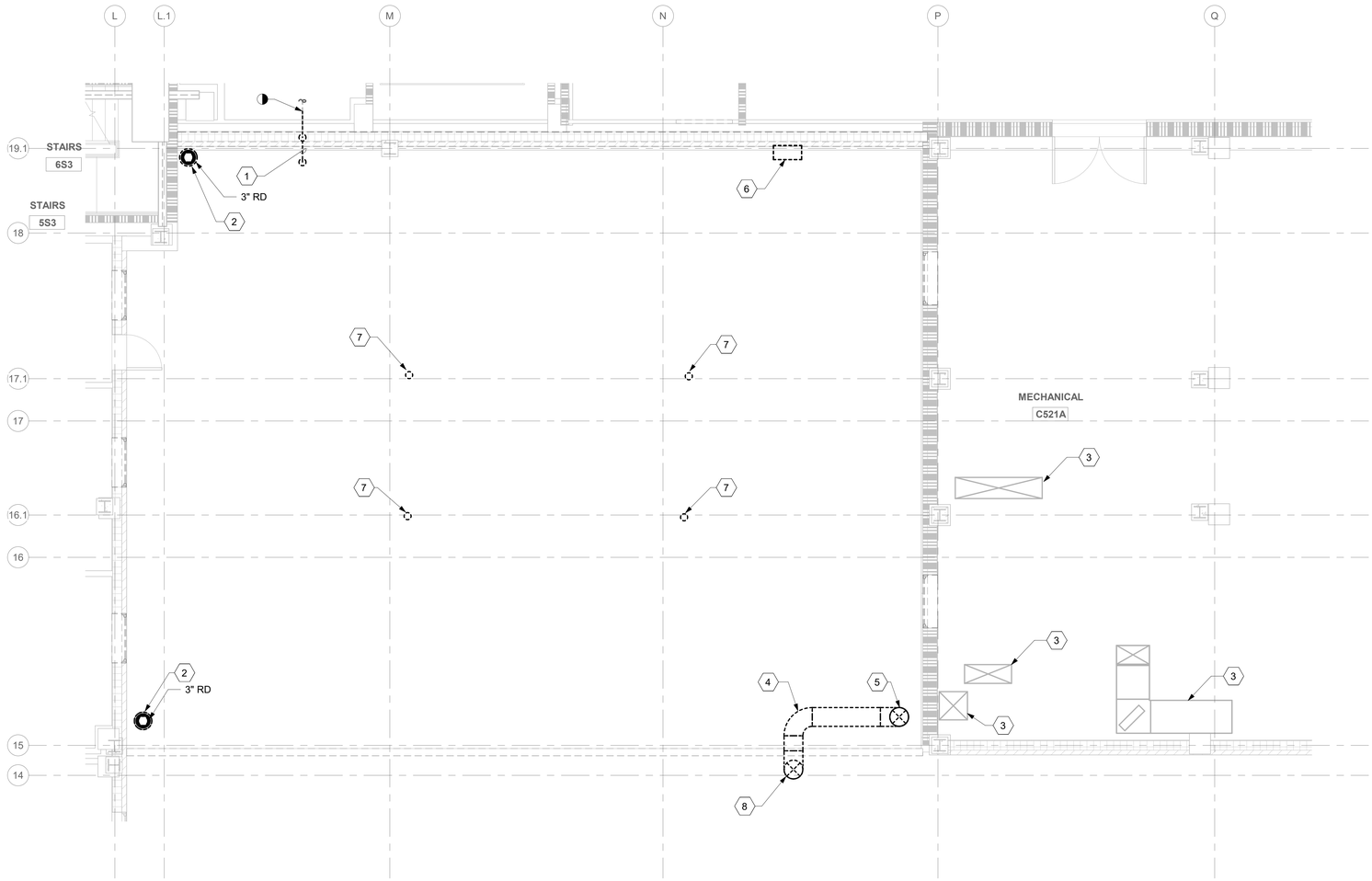
VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 04 - DUCTWORK DEMOLITION FLOOR PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA		**Project Number** 528A7-22-700
		Building Number 001
Location VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210		**Drawing Number** 001-MD-401
Issue Date 08/22/2025	**Checked** MGH/JW	**Drawn** AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:45 PM

VA FORM 08 - 6231



1 DATA CENTER - LEVEL 05 - DEMOLITION ROOF PLAN

1/4" = 1'-0"

PROJECT NORTH

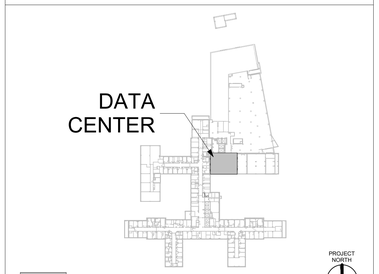
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

KEYNOTES (#)

1. DEMOLISH EXISTING CONDENSATE PIPING.
2. DEMOLISH EXISTING ROOF DRAIN.
3. EXISTING DUCTWORK TO REMAIN.
4. DEMOLISH EXISTING DUCTWORK.
5. FOR CONTINUATION, SEE SHEET 001-MD-403.
6. EXISTING TEMPERATURE SENSOR TO BE DEMOLISHED AND RETAINED, SEE SHEET 001-M-417 FOR RE-INSTALLATION LOCATION.
7. DEMOLISH VENT THROUGH ROOF, SEE SHEET 001-P-402.
8. FOR CONTINUATION, SEE SHEET 001-MD-401.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 001 - LEVEL - 05 - DATA CENTER - DEMOLITION ROOF PLAN

Approved:

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Project Number
528A7-22-700

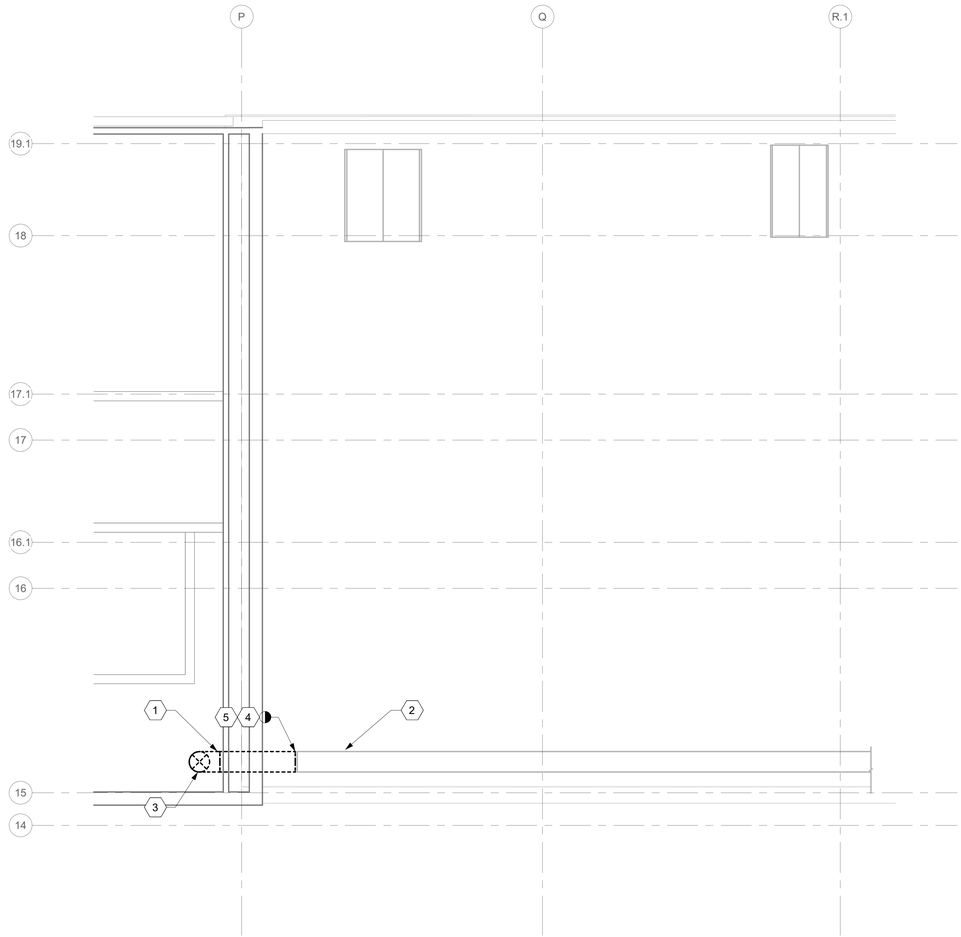
Building Number
001

Drawing Number
001-MD-402

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:48 PM

VA FORM 08 - 6231



1 BUILDING - 001 - LEVEL 06 - DEMOLITION ROOF PLAN
1/4" = 1'-0"

PROJECT NORTH

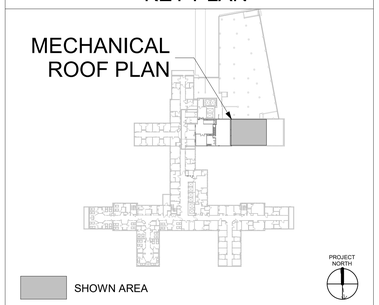
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

KEYNOTES (#)

1. DEMOLISH EXISTING DUCTWORK.
2. EXISTING WELDED DUCTWORK TO REMAIN.
3. FOR CONTINUATION, SEE SHEET 001-MD-402.
4. CONTRACTOR TO VERIFY SIZE AND INSTALL NEW DUCTWORK SAME SIZE AND TYPE. FOR NEW DUCTWORK SEE SHEET 001-M-411.
5. DUCTWORK SERVES LABORATORY FUME HOODS. DUCTWORK DEMOLITION AND INSTALL SHALL BE COORDINATED WITH VA COR.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 001 - LEVEL 06 - DEMOLITION ROOF PLAN

Phase
100% CONSTRUCTION DOCUMENTS

Approved:

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number
528A7-22-700

Building Number
001

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date
08/22/2025

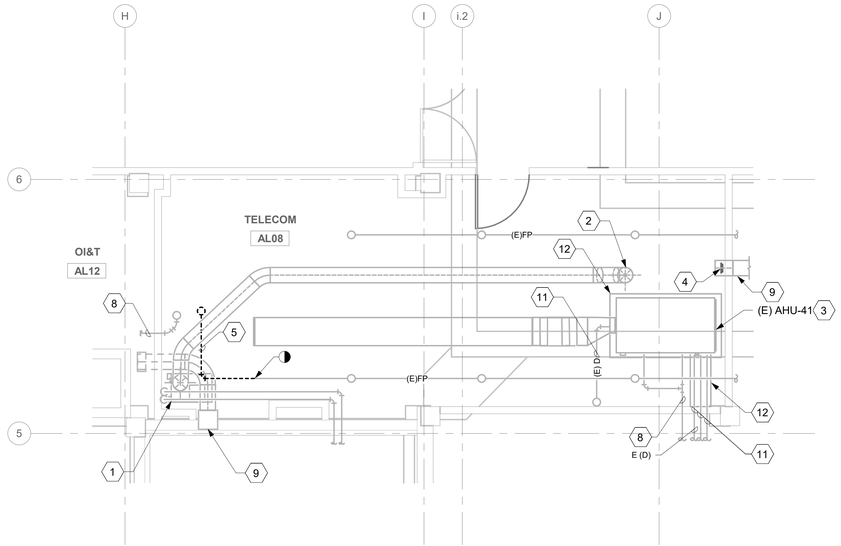
Checked
MGH/JW

Drawn
AP/CY/EA/JJ/MA

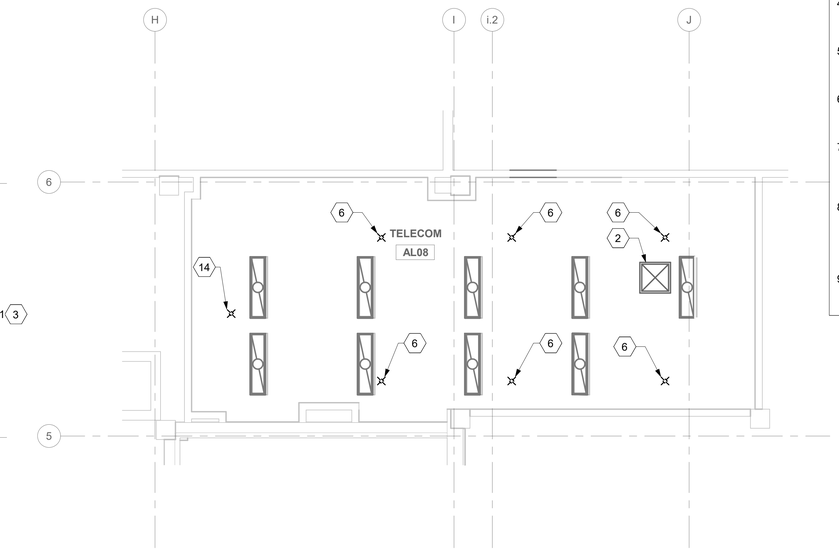
Drawing Number
001-MD-403

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:16:51 PM

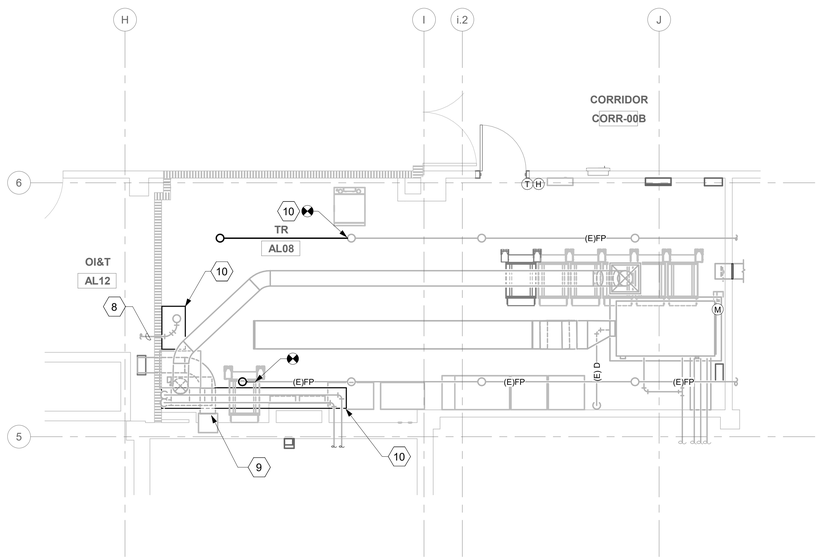
VA FORM 08 - 6231



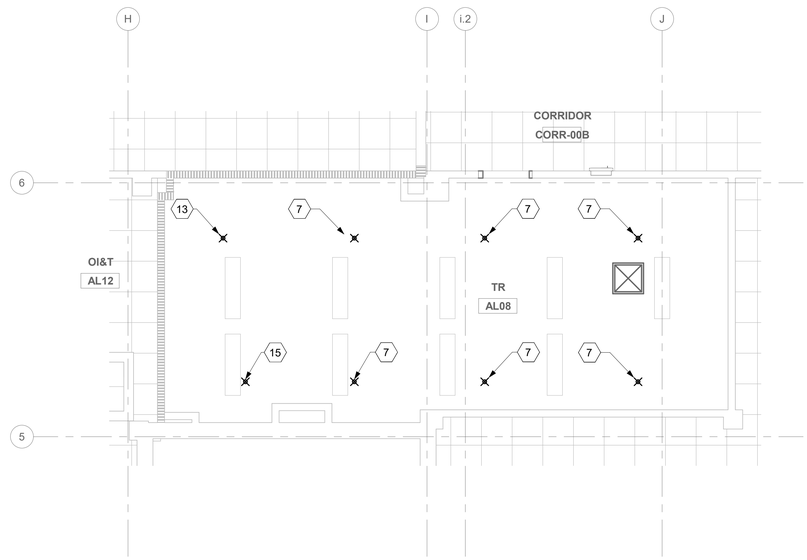
1 RM AL08 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM AL08 - DEMOLITION RCP
1/4" = 1'-0"



3 RM AL08 - FLOOR PLAN
1/4" = 1'-0"



4 RM AL08 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING PRECISION AIR CONDITIONING UNIT AND ALL ASSOCIATED DUCTWORK TO REMAIN. EXISTING REFRIGERANT PIPE SERVING PRECISION AIR CONDITIONING UNIT TO REMAIN. EXISTING CONDENSATE PIPE TO REMAIN.
2. EXISTING SUPPLY DIFFUSER TO REMAIN.
3. EXISTING AIR HANDLING UNIT TO REMAIN. EXISTING HYDRONIC PIPE SERVING AHU TO REMAIN.
4. EXISTING WALL MOUNTED SUPPLY GRILLE TO REMAIN.
5. DEMOLISH EXISTING FIRE PROTECTION PIPING.
6. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
7. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
8. EXISTING PIPING TO REMAIN.
9. EXISTING DUCTWORK TO REMAIN.
10. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.
11. ALL EXISTING PIPING SERVING EXISTING AHU TO REMAIN.
12. EXISTING DRIP PAN TO REMAIN.
13. INSTALL NEW STANDARD RESPONSE SPRINKLER IN AN UPRIGHT POSITION. INSTALL NEW BRANCH LINE, TIE-IN TO NEAREST EXISTING MAIN.
14. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER. DEMOLISH SPRINKLER BRANCH PIPE BACK TO MAIN.
15. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.

KEY PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

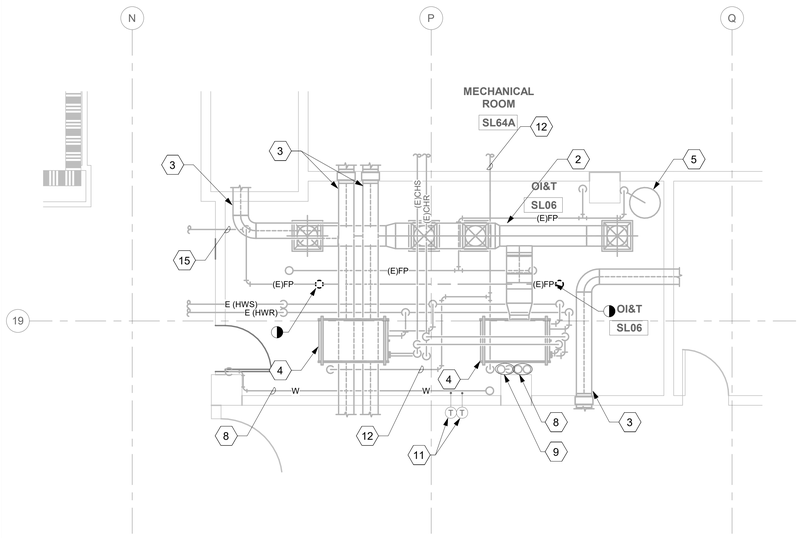
U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 00B - DEMOLITION, FLOOR PLANS & RCPS	**Phase** 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

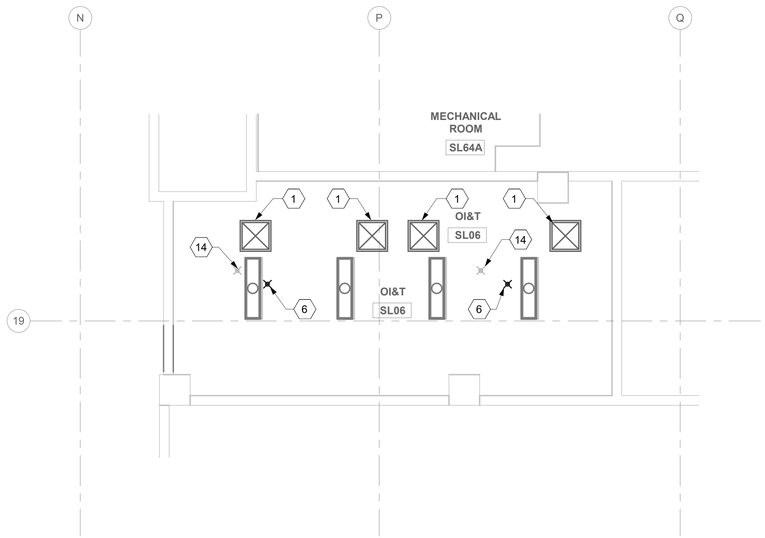
Project Title EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA			**Project Number** 528A7-22-700
			Building Number 001
Location VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210			**Drawing Number** 001-M-400
Issue Date 08/22/2025	**Checked** MGH/JW	**Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:00 PM

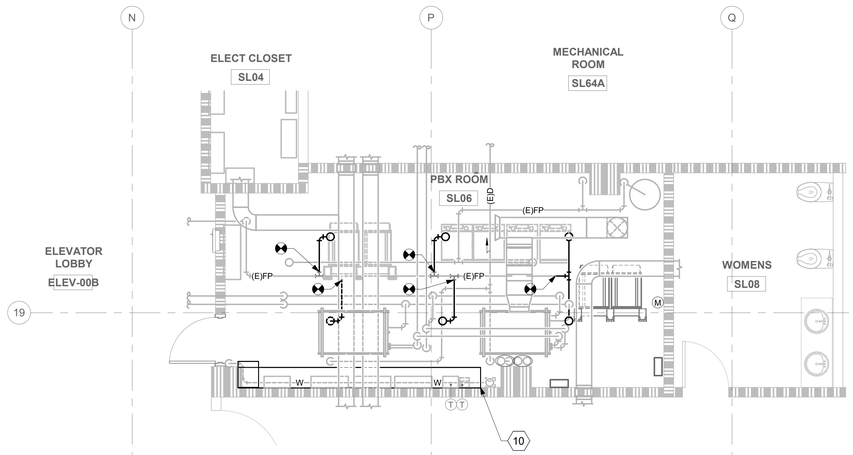
VA FORM 08 - 6231



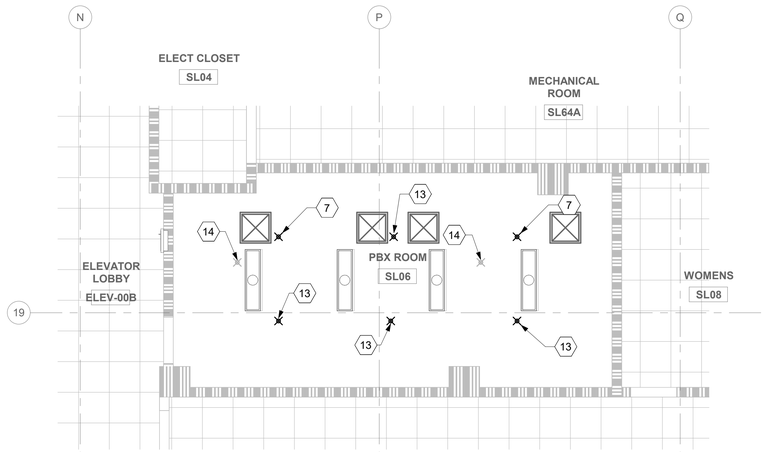
1 RM SL06 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM SL06 - DEMOLITION RCP
1/4" = 1'-0"



3 RM SL06 - FLOOR PLAN
1/4" = 1'-0"



4 RM SL06 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING CEILING SUPPLY DIFFUSER TO REMAIN.
2. EXISTING VAV UNIT AND ALL ASSOCIATED DUCTWORK TO REMAIN.
3. EXISTING DUCTWORK TO REMAIN.
4. EXISTING FAN COIL UNIT TO REMAIN. EXISTING HYDRONIC PIPE SERVING FAN COIL UNIT TO REMAIN. EXISTING CONDENSATE PIPE TO REMAIN.
5. EXISTING GAS SUPPRESSION TANK, PIPING AND ASSOCIATED PRESSURE REGULATING VALVE AND PRESSURE GAUGE TO REMAIN.
6. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
7. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
8. EXISTING SANITARY WASTE PIPING TO REMAIN.
9. EXISTING VENT PIPING TO REMAIN.
10. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.
11. EXISTING THERMOSTAT TO REMAIN.
12. EXISTING DRAIN PIPING TO REMAIN.
13. INSTALL NEW STANDARD RESPONSE SPRINKLER IN AN UPRIGHT POSITION. INSTALL NEW BRANCH LINE, TIE-IN TO NEAREST EXISTING MAIN.
14. EXISTING CLEAN AGENT FIRE SUPPRESSION NOZZLE TO REMAIN.
15. EXISTING FIRE PROTECTION PIPING TO REMAIN.

KEY PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 00B - DEMOLITION, FLOOR PLANS & RCPS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-M-401

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:09 PM

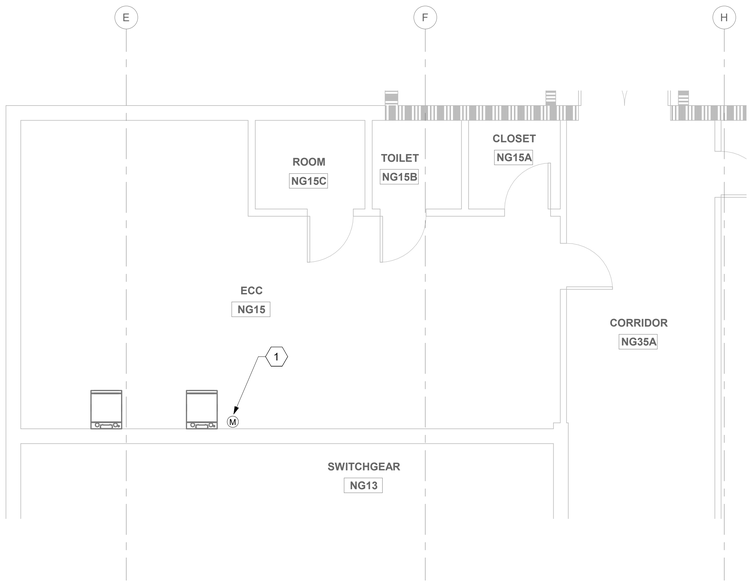
VA FORM 08 - 6231

GENERAL NOTES

1. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

KEYNOTES

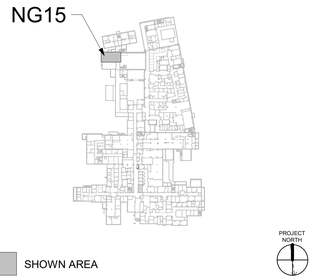
1. MOISTURE SENSOR TO BE INSTALLED AT LOWEST POINT OF SPACE.



1 RM NG15 - FLOOR PLAN
1/4" = 1'-0"

PROJECT NORTH

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED PROFESSIONAL ENGINEER
8/22/25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING - 001 - LEVEL - 00G - FLOOR PLAN

Approved:

Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210

Issue Date: 08/22/2025

Checked: MGH/JW

Drawn: AP/CY/EA/JJ/MA

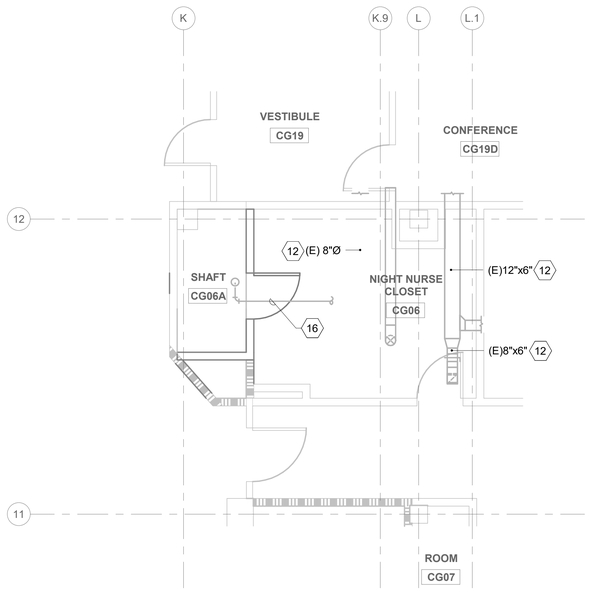
Project Number: 528A7-22-700

Building Number: 001

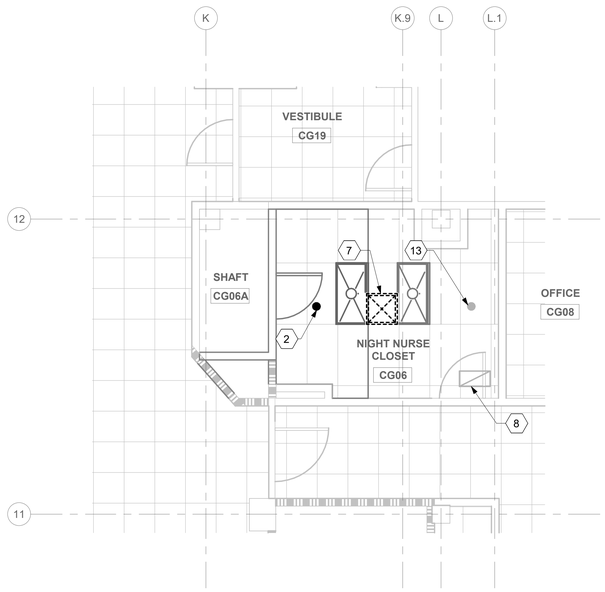
Drawing Number: 001-M-402

Autodesk Docs://528A7-22-700 VA Syracuse EHRM infrastructure Upgrades/VASY_01_ME_SDB.rvt
9/22/2025 3:01:47 PM

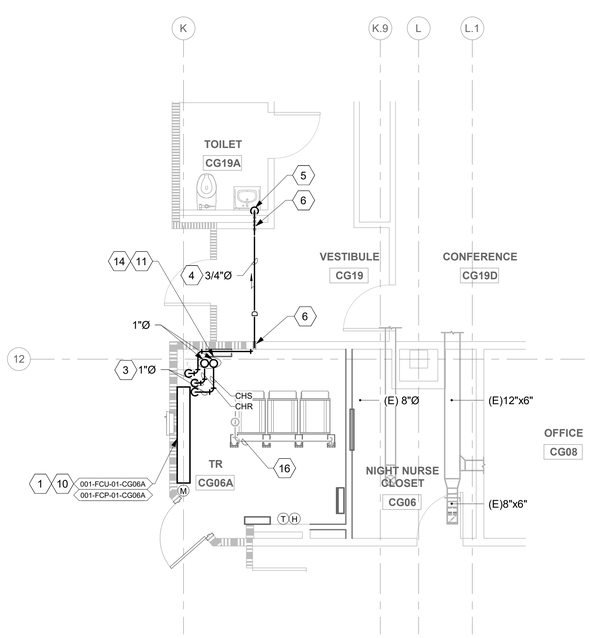
VA FORM 08 - 6231



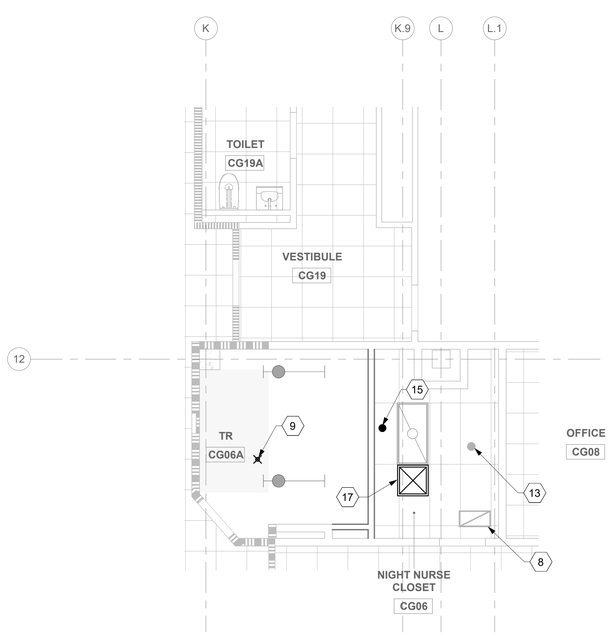
1 RM CG06 & CG06A - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM CG06 & CG06A - DEMOLITION RCP
1/4" = 1'-0"



3 RM CG06A - FLOOR PLAN
1/4" = 1'-0"



4 RM CG06A - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

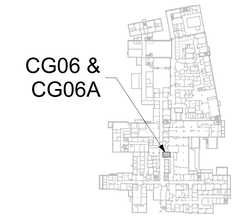
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
2. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
3. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
4. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
5. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING SINK SANITARY LINE. SEE "SINK TAILPIECE CONNECTION DETAIL" ON SHEET M-501.
6. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
7. RELOCATE EXISTING CEILING SUPPLY DIFFUSER.
8. EXISTING CEILING RETURN GRILLE TO REMAIN.
9. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
10. CONDENSATE PUMP TO BE PLACED UNDER UNIT.
11. FROM FLOOR ABOVE, FOR CONTINUATION SEE SHEET 001-M-405.
12. EXISTING DUCTWORK TO REMAIN.
13. EXISTING QUICK RESPONSE SPRINKLER TO REMAIN.
14. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPE RISER FROM THIS LEVEL TO ROOF LEVEL.
15. INSTALL NEW QUICK RESPONSE PENDENT SPRINKLER. INSTALL NEW BRANCH LINE, TIE-IN TO NEAREST EXISTING MAIN.
16. EXISTING PIPING TO REMAIN.
17. RELOCATED EXSITING CEILING SUPPLY DIFFUSER.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

RACHEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
6/22/2025

Office of Construction and Facilities Management

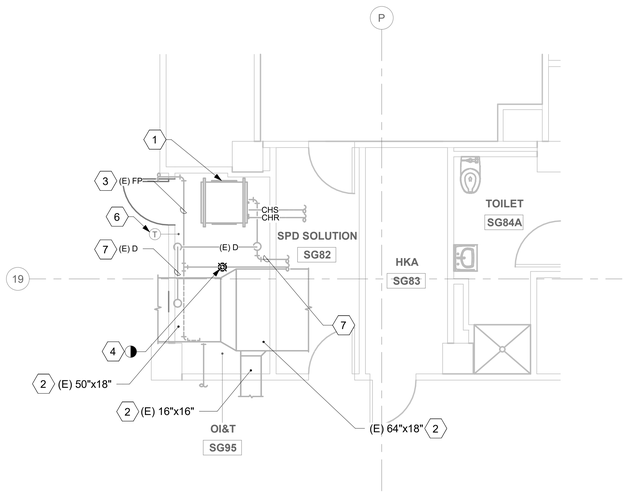
VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING - 001 - LEVEL - 00G - DEMOLITION, FLOOR PLANS & RCPS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA		Project Number: 528A7-22-700
		Building Number: 001
Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210		Drawing Number: 001-M-403
Issue Date: 08/22/2025	Checked: MGH/JW	Drawn: AP/CY/EA/JJ/MA

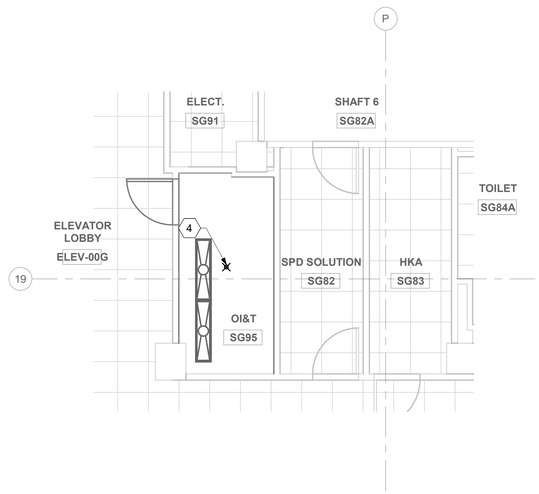
Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:22 PM

VA FORM 08 - 6231



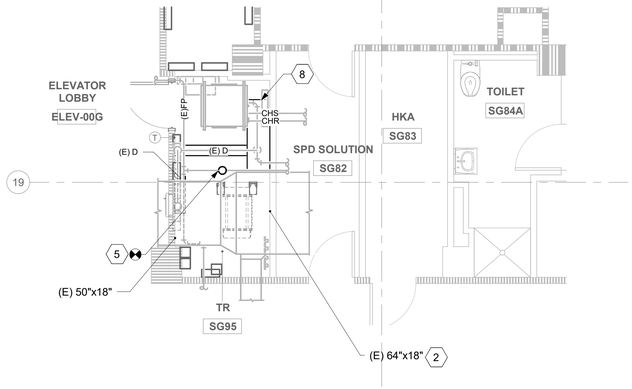
1 RM SG95 - DEMOLITION FLOOR PLAN

1/4" = 1'-0"



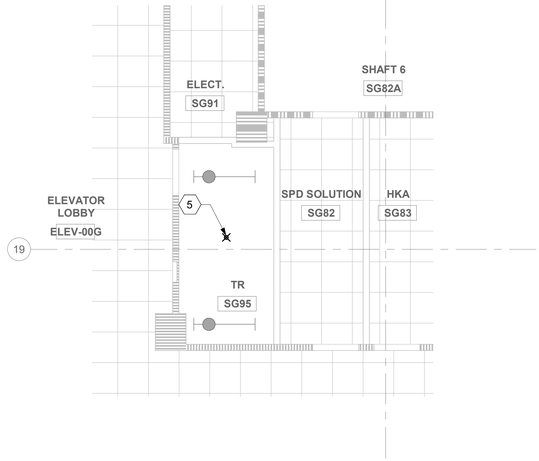
2 RM SG95 - DEMOLITION RCP

1/4" = 1'-0"



3 RM SG95 - FLOOR PLAN

1/4" = 1'-0"



4 RM SG95 - RCP

1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

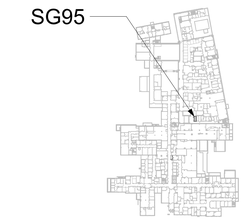
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING FAN COIL UNIT TO REMAIN. EXISTING HYDRONIC PIPE SERVING FCU TO REMAIN. EXISTING CONDENSATE PIPE TO REMAIN.
2. EXISTING DUCTWORK TO REMAIN.
3. EXISTING FIRE PROTECTION PIPE TO REMAIN.
4. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
5. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
6. EXISTING THERMOSTAT TO REMAIN.
7. EXISTING CONDENSATE DRAIN PIPING TO REMAIN.
8. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

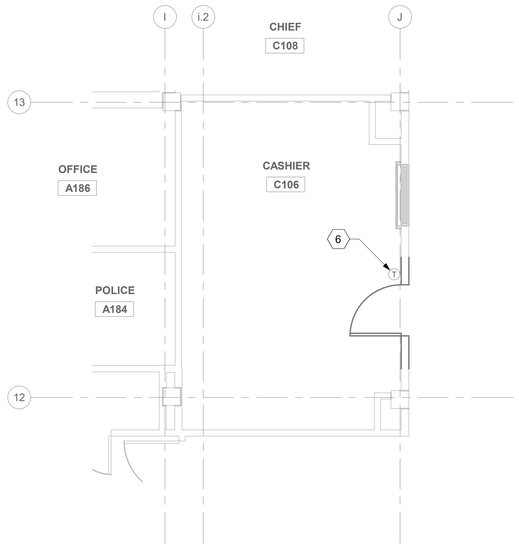
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

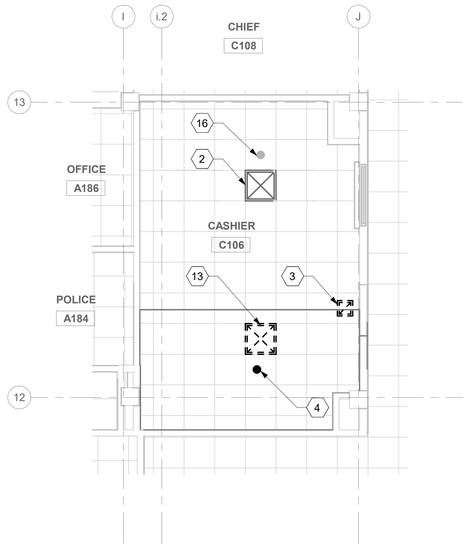
Drawing Title BUILDING - 001 - LEVEL - 00G - DEMOLITION, FLOOR PLANS & RCPS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-M-404

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:29 PM

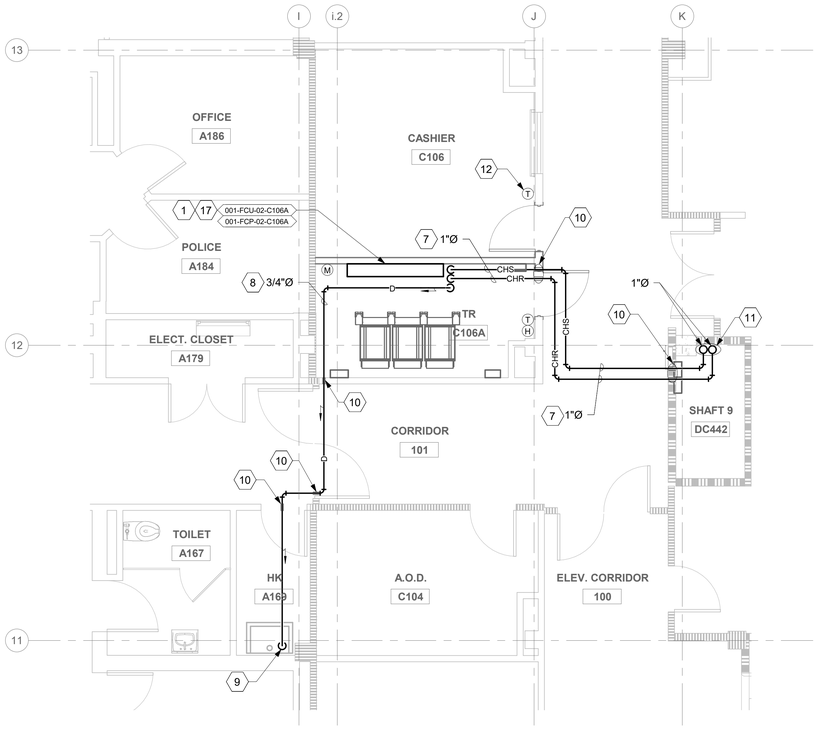
VA FORM 08 - 6231



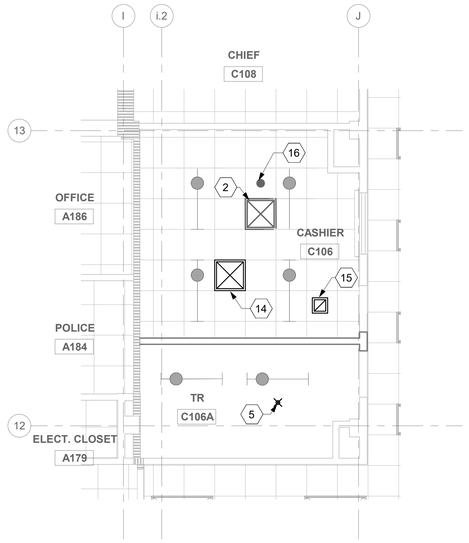
1 RM C106A - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM C106A - DEMOLITION RCP
1/4" = 1'-0"



3 RM C106A - FLOOR PLAN
1/4" = 1'-0"



4 RM C106A - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

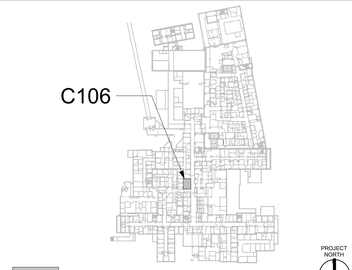
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
2. EXISTING CEILING SUPPLY DIFFUSER TO REMAIN.
3. RELOCATE EXISTING CEILING RETURN GRILLE. ADJUST DUCT LENGTH ACCORDINGLY TO THE NEW LOCATION OF THE SUPPLY DIFFUSER. ENSURE COORDINATION WITH NEW RCP.
4. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
5. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
6. REMOVE EXISTING THERMOSTAT AND RETAIN FOR REINSTALLATION. SEE DRAWINGS FOR NEW LOCATION.
7. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
8. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
9. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK. SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
10. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
11. FROM FLOOR ABOVE AND TO FLOOR BELOW, FOR CONTINUATION SEE SHEETS 001-M-407 and 001-M-403.
12. RELOCATED THERMOSTAT.
13. RELOCATE EXISTING CEILING SUPPLY DIFFUSER. ADJUST DUCT LENGTH ACCORDINGLY TO THE NEW LOCATION OF THE SUPPLY DIFFUSER. ENSURE COORDINATION WITH NEW RCP.
14. RELOCATED CEILING SUPPLY DIFFUSER.
15. RELOCATED CEILING RETURN GRILLE.
16. EXISTING QUICK RESPONSE SPRINKLER TO REMAIN.
17. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD
A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP
MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

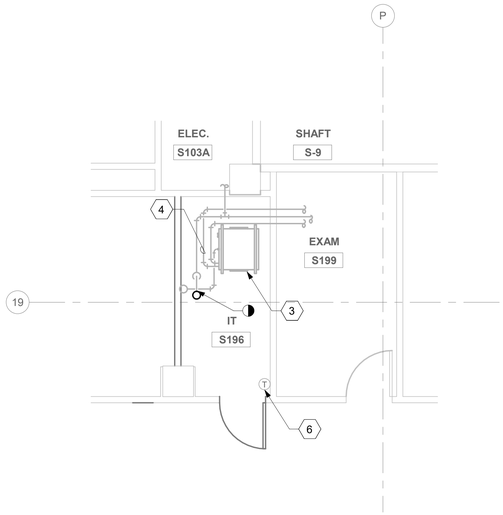
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING - 001 - LEVEL - 01 - DEMOLITION, FLOOR PLANS & RCPS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	Project Number: 528A7-22-700
	Building Number: 001
Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	Drawing Number: 001-M-405
Issue Date: 08/22/2025 / Checked: MGH/JW / Drawn: AP/CY/EA/JJ/MA	

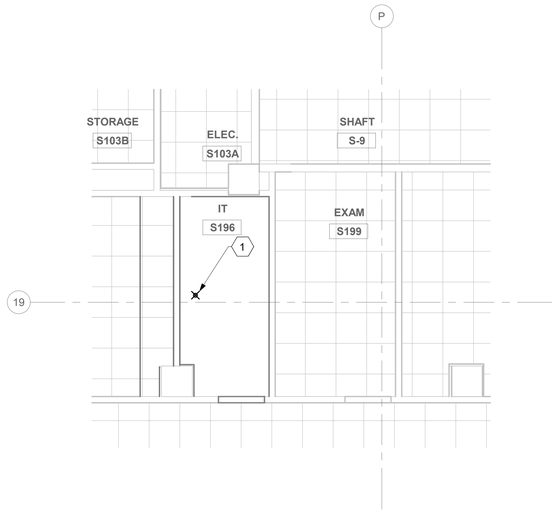
Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:38 PM

VA FORM 08 - 6231



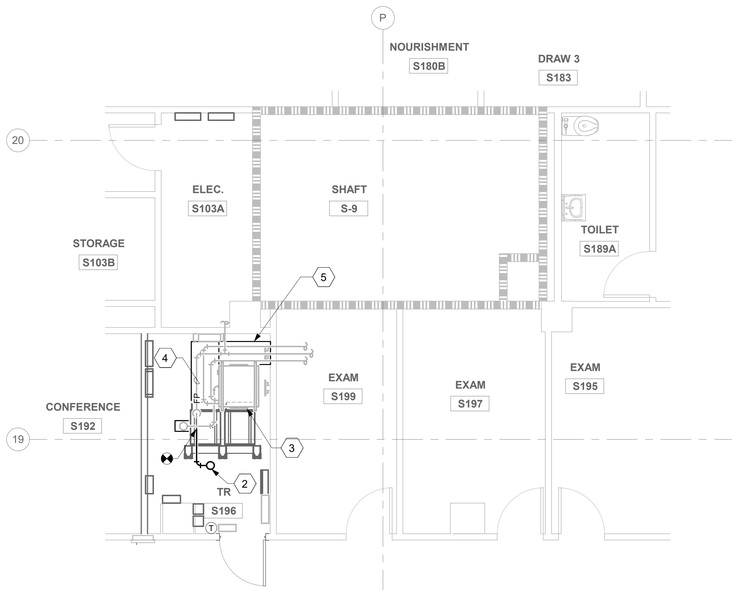
1 RM S196 - DEMOLITION FLOOR PLAN

1/4" = 1'-0"



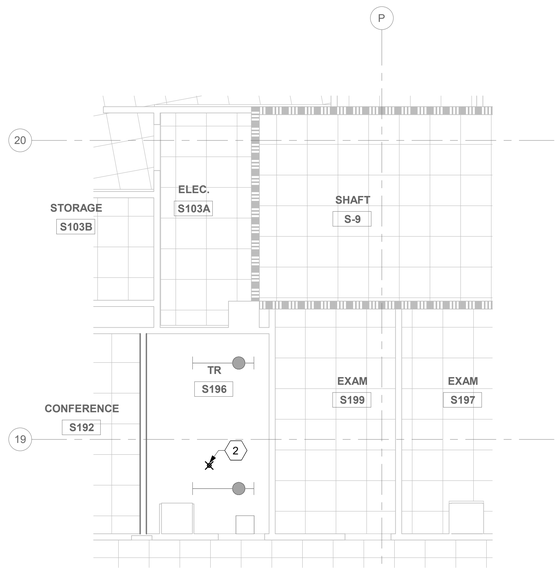
2 RM S196 - DEMOLITION RCP

1/4" = 1'-0"



3 RM S196 - FLOOR PLAN

1/4" = 1'-0"



4 RM S196 - RCP

1/4" = 1'-0"

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

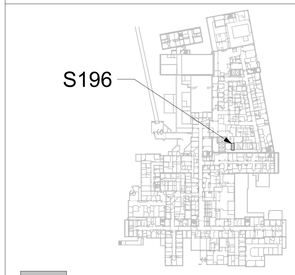
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
2. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
3. EXISTING FAN COIL UNIT TO REMAIN. ASSOCIATED HYDRONIC PIPES AND CONDENSATE DRAIN PIPE TO REMAIN.
4. EXISTING FIRE PROTECTION PIPING TO REMAIN.
5. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.
6. EXISTING THERMOSTAT TO REMAIN.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

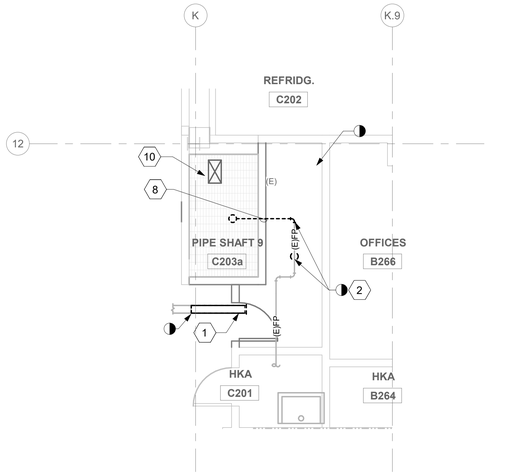
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

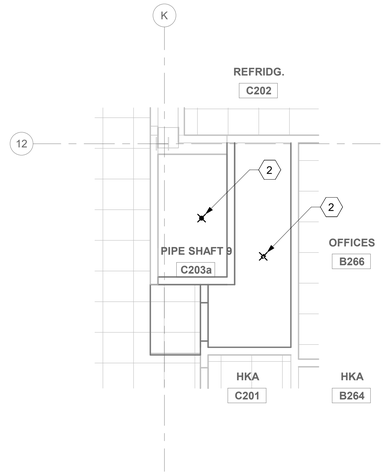
Drawing Title BUILDING - 001 - LEVEL - 01 - DEMOLITION, FLOOR PLANS & RCPS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-M-406

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:43 PM

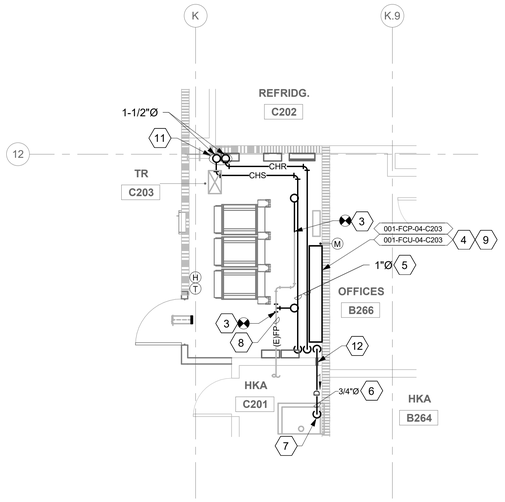
VA FORM 08 - 6231



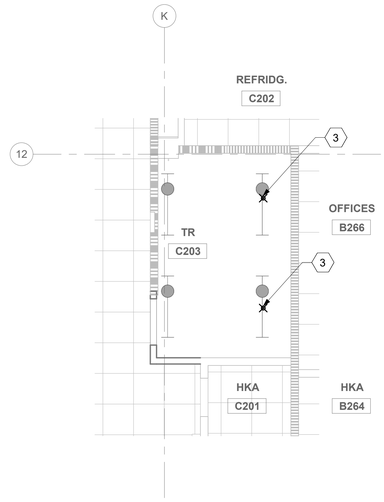
1 RM C203 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM C203 - DEMOLITION RCP
1/4" = 1'-0"



3 RM C203 - FLOOR PLAN
1/4" = 1'-0"



4 RM C203 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

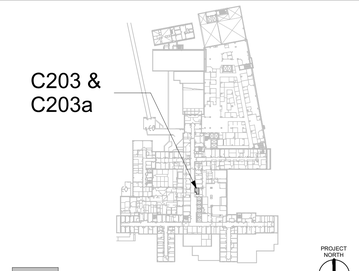
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. DEMOLISH WALL MOUNTED RETURN GRILLE. DEMOLISH BRANCH DUCTWORK BACK TO MAIN. CAP AND SEAL DUCTWORK AT MAIN.
2. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
3. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
4. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
5. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
6. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
7. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK. SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
8. EXISTING FIRE PROTECTION PIPING TO REMAIN.
9. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
10. EXISTING STAINLESS STEEL DUCT THRU TO LEVEL BELOW.
11. FROM FLOOR ABOVE AND FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-405 AND 001-M-409.
12. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

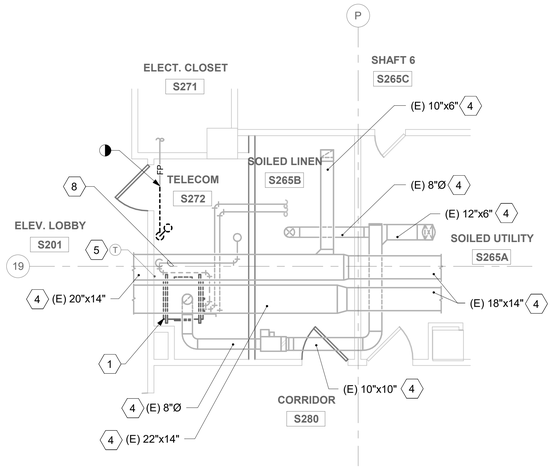
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 02 - DEMOLITION, FLOOR PLANS & RCPS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-M-407
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

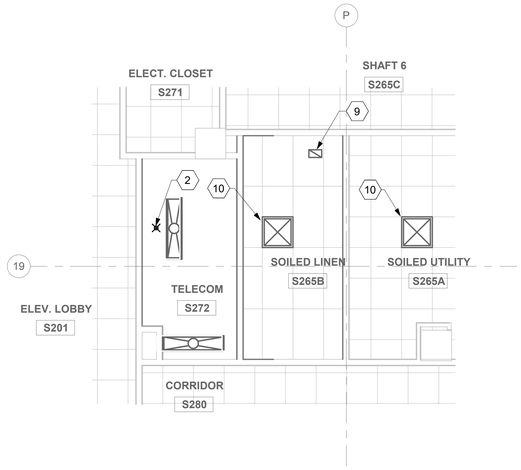
Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:49 PM

VA FORM 08 - 6231



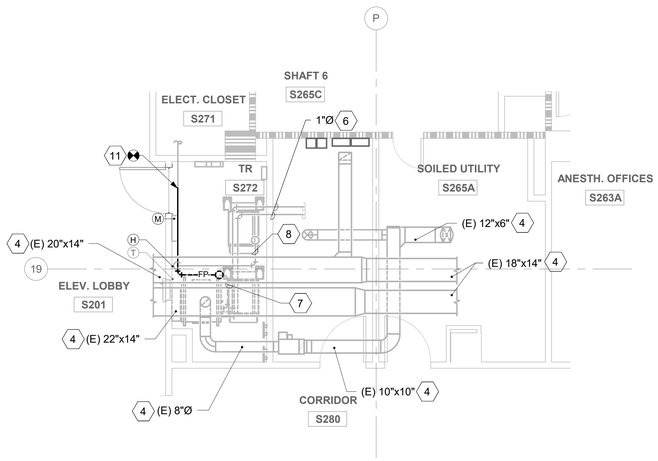
1 RM S272 & S265B - DEMOLITION FLOOR PLAN

1/4" = 1'-0"



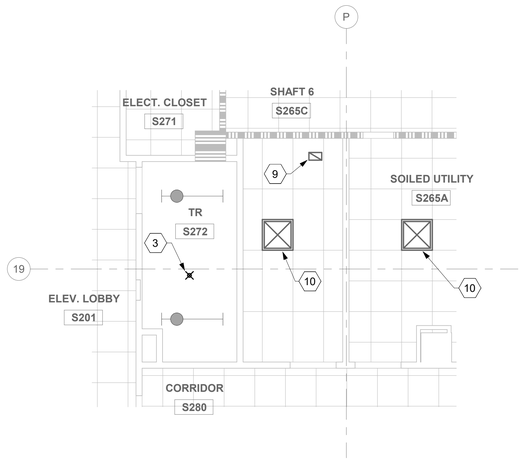
2 RM S272 & S265B - DEMOLITION RCP

1/4" = 1'-0"



3 RM S272 - FLOOR PLAN

1/4" = 1'-0"



4 RM S272 - RCP

1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

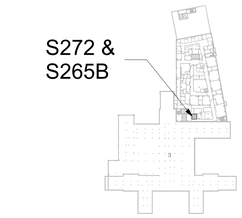
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING FAN COIL UNIT TO REMAIN.
2. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
3. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
4. EXISTING DUCTWORK TO REMAIN.
5. EXISTING THERMOSTAT TO REMAIN.
6. EXISTING CHILLED WATER SUPPLY AND RETURN TO FAN COIL UNIT.
7. EXISTING CONDENSATE LINE TO FAN COIL UNIT.
8. EXISTING CONDENSATE DRAIN PIPING TO REMAIN.
9. EXISTING CEILING RETURN GRILLE TO REMAIN.
10. EXISTING CEILING SUPPLY AIR DIFFUSER TO REMAIN.
11. TIE-IN TO EXISTING FIRE PROTECTION PIPING.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

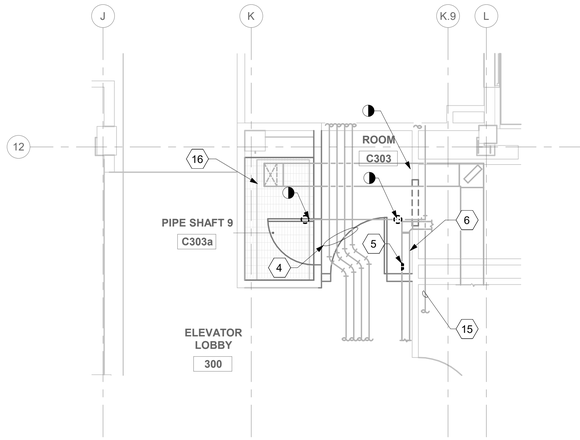
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

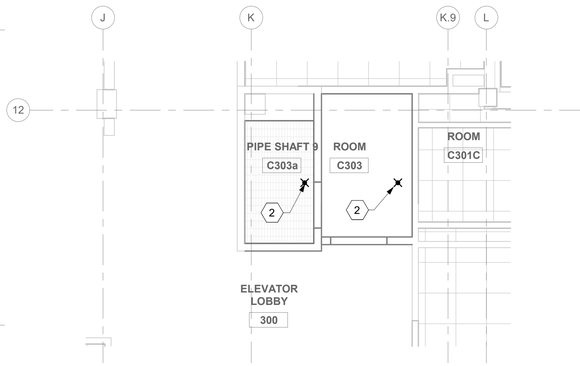
Drawing Title BUILDING - 001 - LEVEL - 02.5 - DEMOLITION, FLOOR PLANS & RCPS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-M-408

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:51 PM

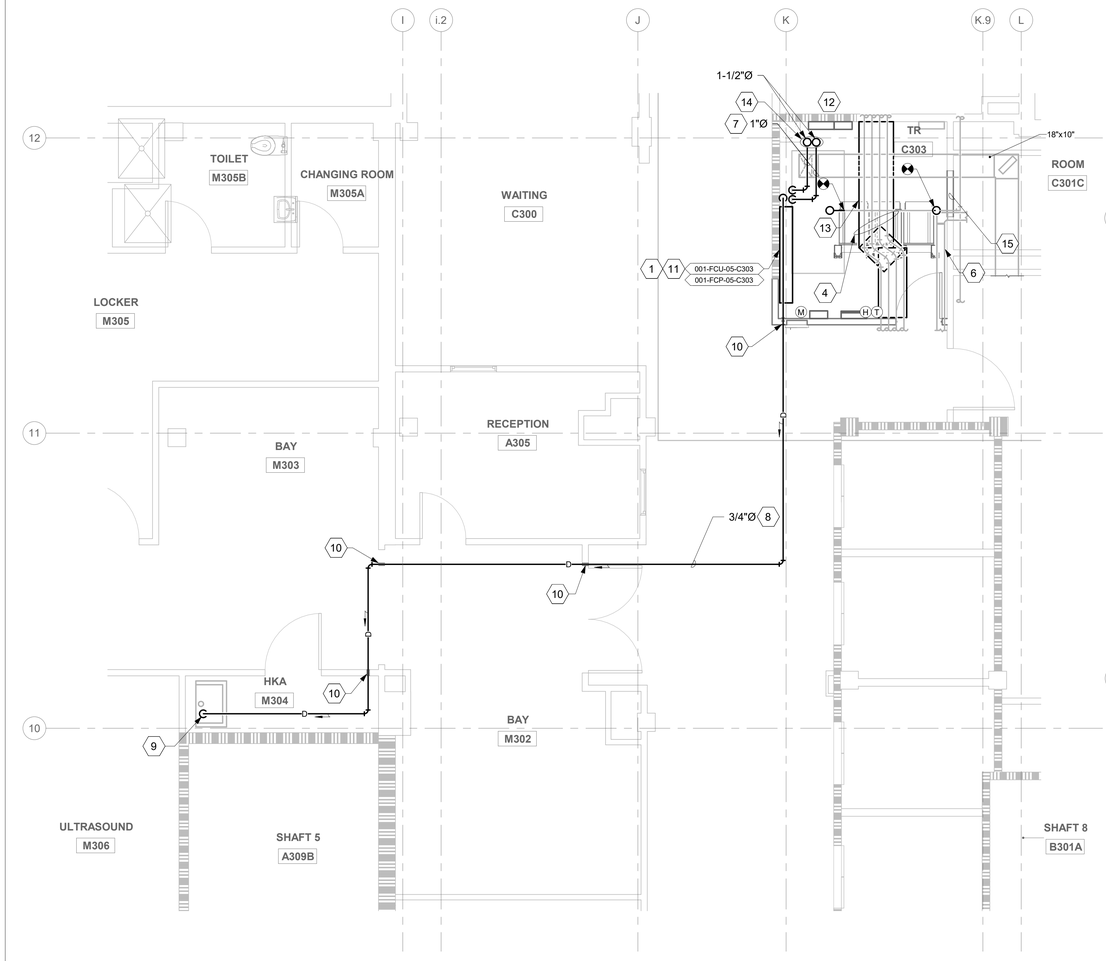
VA FORM 08 - 6231



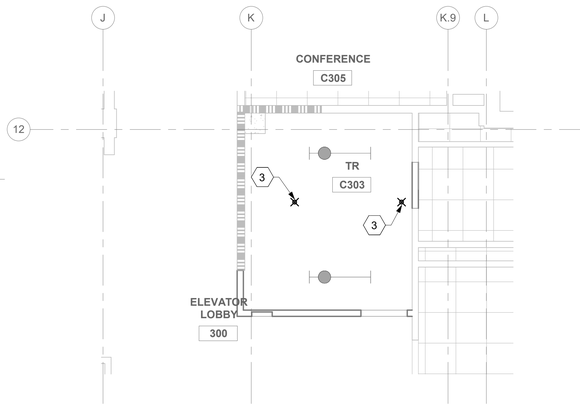
1 RM C303 & C303A - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM C303 & C303A - DEMOLITION RCP
1/4" = 1'-0"



3 RM C303 - FLOOR PLAN
1/4" = 1'-0"



4 RM C303 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

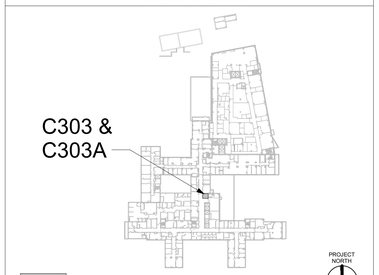
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
2. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
3. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
4. EXISTING HYDRONIC PIPES TO REMAIN.
5. DEMOLISH EXISTING RETURN AIR GRILLE, CAP AND SEAL THE OPENING.
6. EXISTING RETURN DUCT TO REMAIN.
7. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
8. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
9. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK SANITARY LINE. SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
10. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
11. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
12. FIRE DAMPER INSTALLED AT NEW FLOOR LEVEL PENETRATION. FURNISH AND INSTALL NEW STAINLESS STEEL DUCTWORK CONNECTIONS TO MATCH EXISTING.
13. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.
14. FROM FLOOR ABOVE AND FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-407 AND 001-M-410.
15. EXISTING FIRE PROTECTION PIPING TO REMAIN.
16. DEMOLISH EXISTING WELDED STAINLESS DUCTWORK TO ALLOW FOR FLOOR CONSTRUCTION. COORDINATE EXHAUST SYSTEM SHUTDOWN WITH COR.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

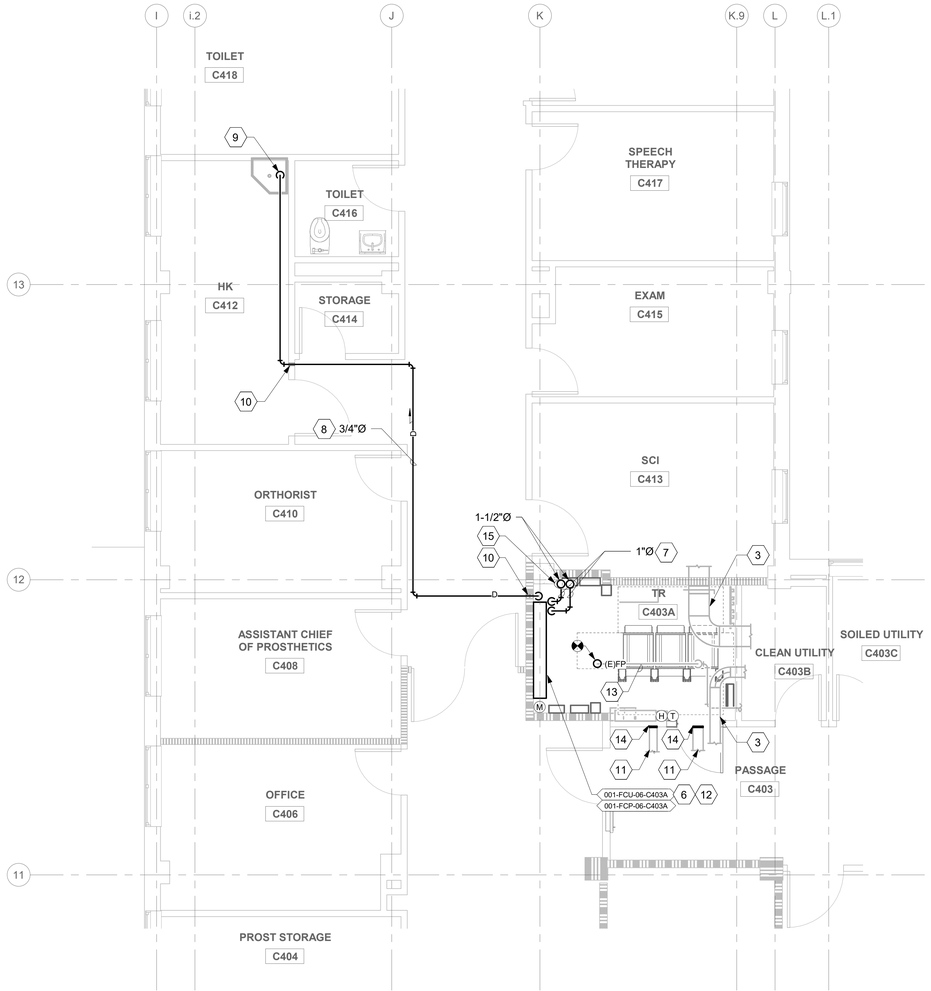
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 03 - DEMOLITION, FLOOR PLANS & RCPS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 001
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 001-M-409

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:17:54 PM

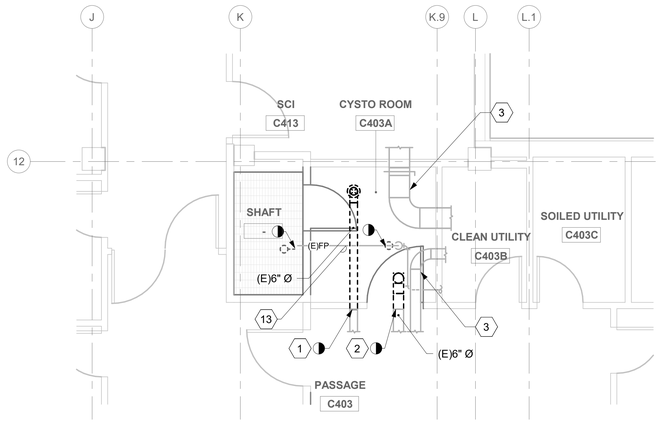
VA FORM 08 - 6231



3 RM C403A - FLOOR PLAN

1/4" = 1'-0"

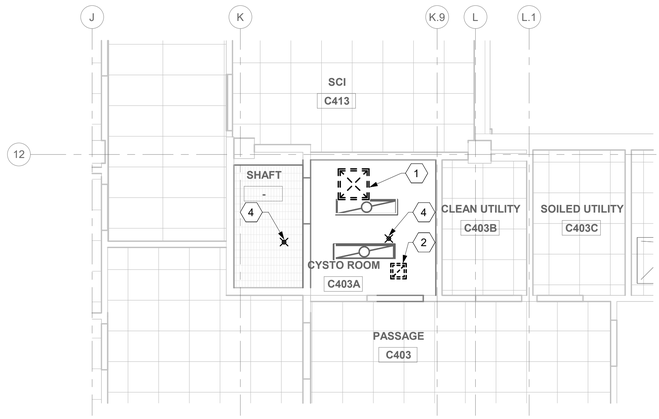
PROJECT NORTH



1 RM C403A - DEMOLITION FLOOR PLAN

1/4" = 1'-0"

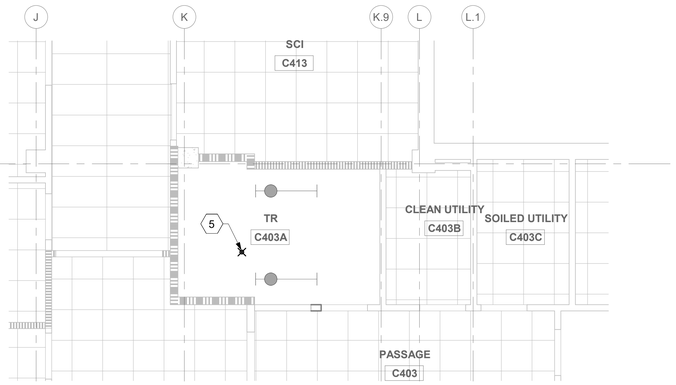
PROJECT NORTH



2 RM C403A - DEMOLITION RCP

1/4" = 1'-0"

PROJECT NORTH



4 RM C403A - RCP

1/4" = 1'-0"

PROJECT NORTH

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

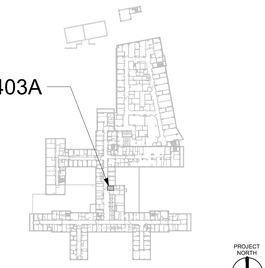
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. DEMOLISH CEILING SUPPLY DIFFUSER. DEMOLISH BRANCH DUCTWORK BACK TO MAIN AND PATCH HOLES. CAP AND SEAL DUCTWORK AT MAIN.
2. DEMOLISH CEILING RETURN GRILLE. DEMOLISH BRANCH DUCTWORK BACK TO MAIN AND PATCH HOLES. CAP AND SEAL DUCTWORK AT MAIN.
3. EXISTING DUCTWORK TO REMAIN.
4. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
5. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
6. FURNISH AND INSTALL NEW FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
7. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
8. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
9. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK. SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
10. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
11. EXISTING DUCTWORK TO REMAIN.
12. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
13. EXISTING FIRE PROTECTION PIPING TO REMAIN.
14. CAP AND SEAL OPEN ENDS, DUCT DEMOLITION SHOULD STOP AT THE WALL.
15. FROM FLOOR ABOVE AND FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-409 AND 001-M-413.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

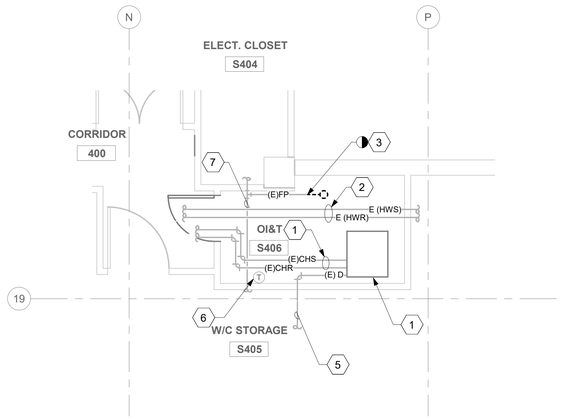
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

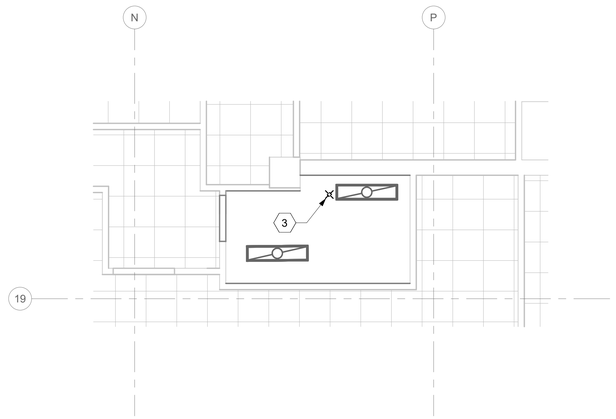
Drawing Title BUILDING - 001 - LEVEL - 04 - DEMOLITION, FLOOR PLANS & RCPS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-410
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Upgrades/Detail VA
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:01 PM

VA FORM 08 - 6231



1 RM S406 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM S406 - DEMOLITION RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

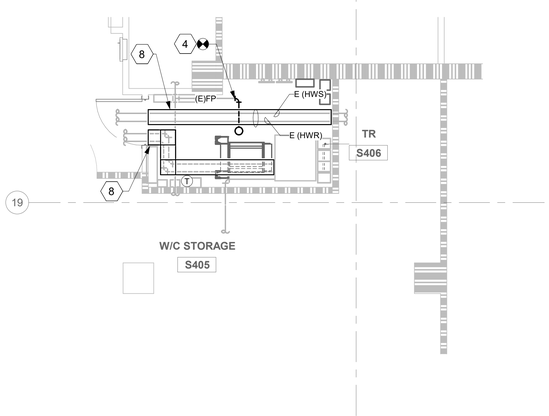
1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

DEMOLITION GENERAL NOTES

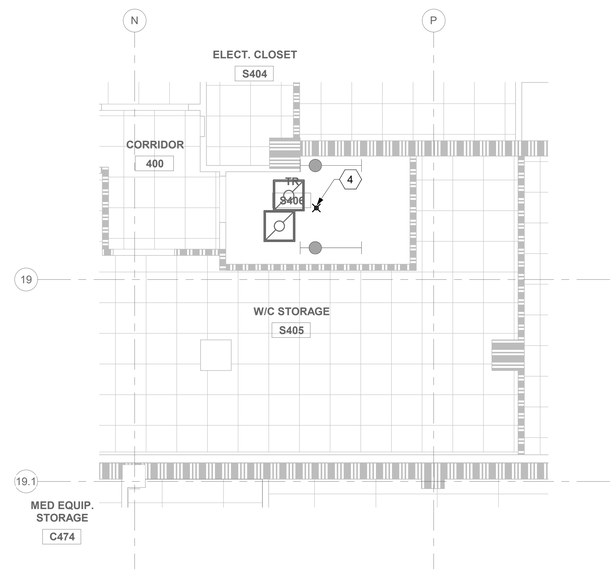
1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING FAN COIL UNIT TO REMAIN. EXISTING HYDRONIC PIPE SERVING FCU TO REMAIN.
2. EXISTING HOT WATER SUPPLY AND RETURN PIPES TO REMAIN.
3. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
4. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
5. EXISTING CONDENSATE DRAIN PIPING TO REMAIN.
6. EXISTING THERMOSTAT TO REMAIN.
7. EXISTING FIRE PROTECTION PIPING TO REMAIN.
8. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.

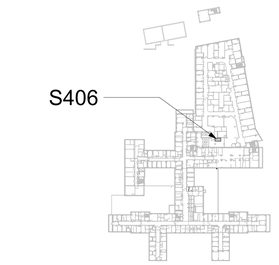


3 RM S406 - FLOOR PLAN
1/4" = 1'-0"



4 RM S406 - RCP
1/4" = 1'-0"

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE
DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD
A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP
MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

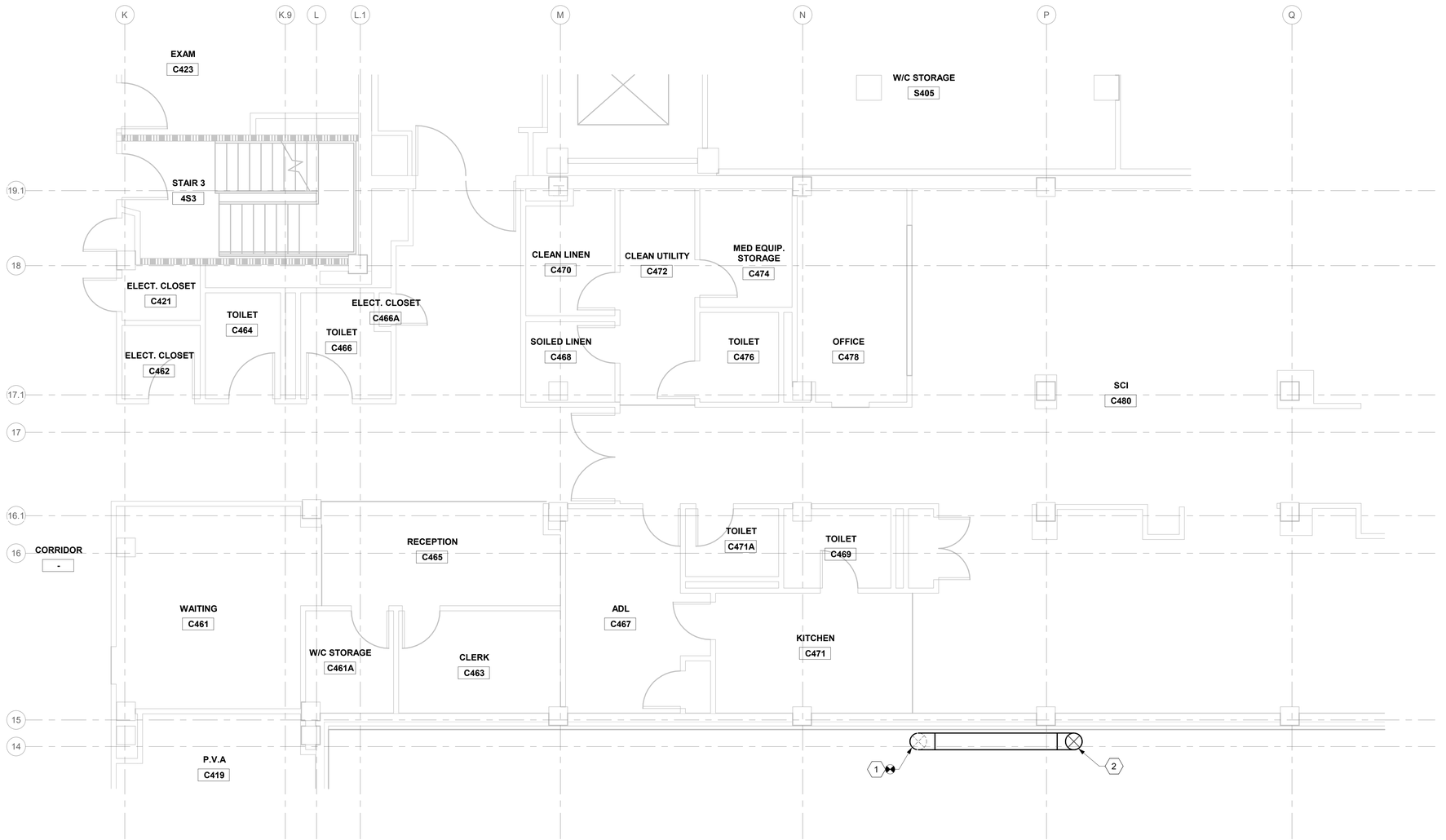
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING - 001 - LEVEL - 04 - DEMOLITION, FLOOR PLANS & RCPS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	Project Number: 528A7-22-700
	Building Number: 001
Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	Drawing Number: 001-M-411
Issue Date: 08/22/2025	Checked: MGH/JW
	Drawn: AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:07 PM

VA FORM 08 - 6231



1 LEVEL 04 - DATA CENTER - HVAC DUCTING PLAN

1/4" = 1'-0"

PROJECT NORTH

GENERAL NOTES

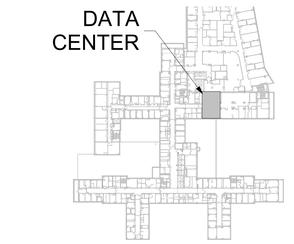
1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.
4. NEW DUCTWORK TO BE MINIMUM OF 26 GAUGE.

KEYNOTES (#)

(1) CONNECT TO EXISTING DUCTWORK, FOR DEMOLITION SEE SHEET 001-MD-401.

(2) FOR CONTINUATION, SEE SHEET 001-M-416.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

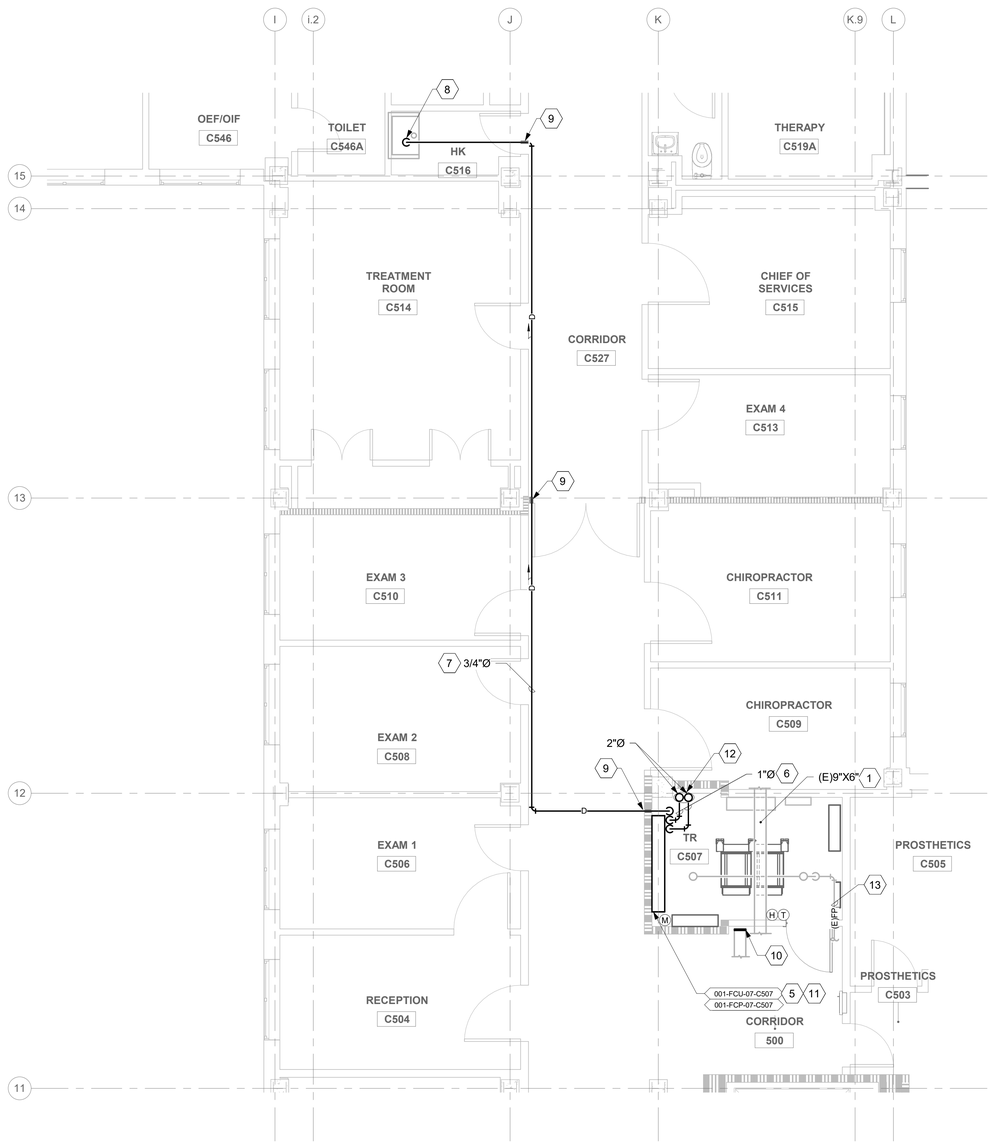
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

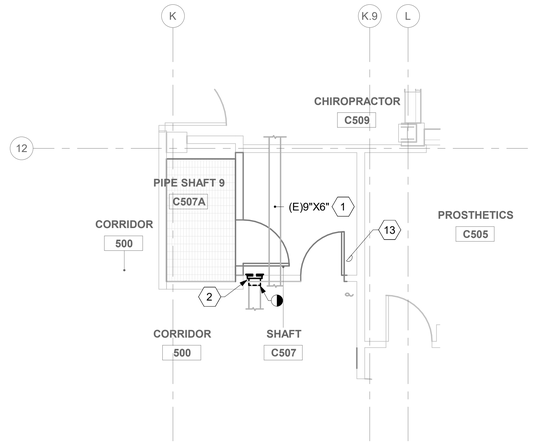
Drawing Title	BUILDING - 001 - LEVEL - 04 - DATA CENTER - HVAC DUCTING PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-M-412
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:11 PM

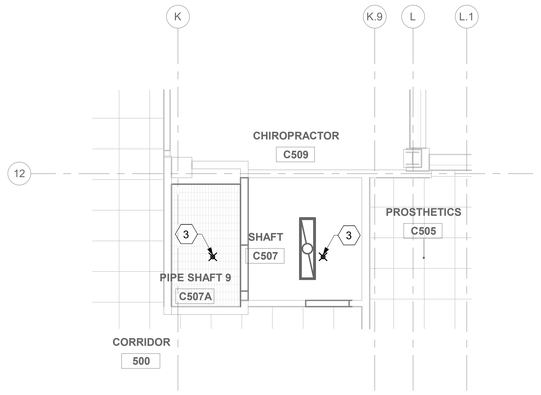
VA FORM 08 - 6231



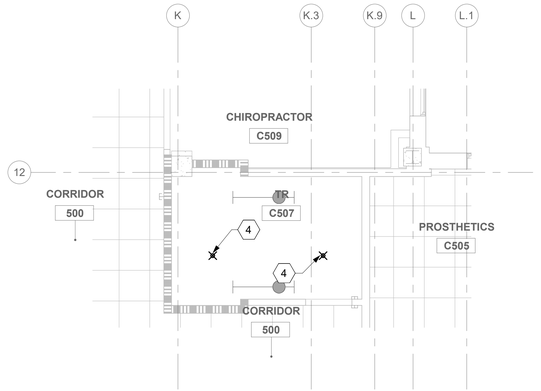
1 RM C507 - FLOOR PLAN
1/4" = 1'-0"



2 RM C507 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



3 RM C507 - DEMOLITION RCP
1/4" = 1'-0"



4 RM C507 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

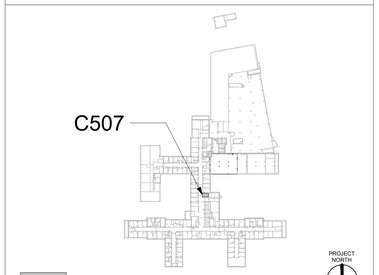
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING DUCTWORK TO REMAIN.
2. DEMOLISH WALL MOUNTED RETURN AIR GRILLE. DEMOLISH BRANCH DUCTWORK BACK TO MAIN. CAP AND SEAL DUCTWORK AT MAIN.
3. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
4. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
5. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
6. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
7. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
8. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK. SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
9. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
10. CAP OPEN ENDS, DUCT DEMOLITION SHOULD STOP AT THE WALL
11. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
12. FROM FLOOR ABOVE AND FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-410 AND 001-M-420.
13. EXISTING FIRE PROTECTION PIPING TO REMAIN.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
6/22/2025

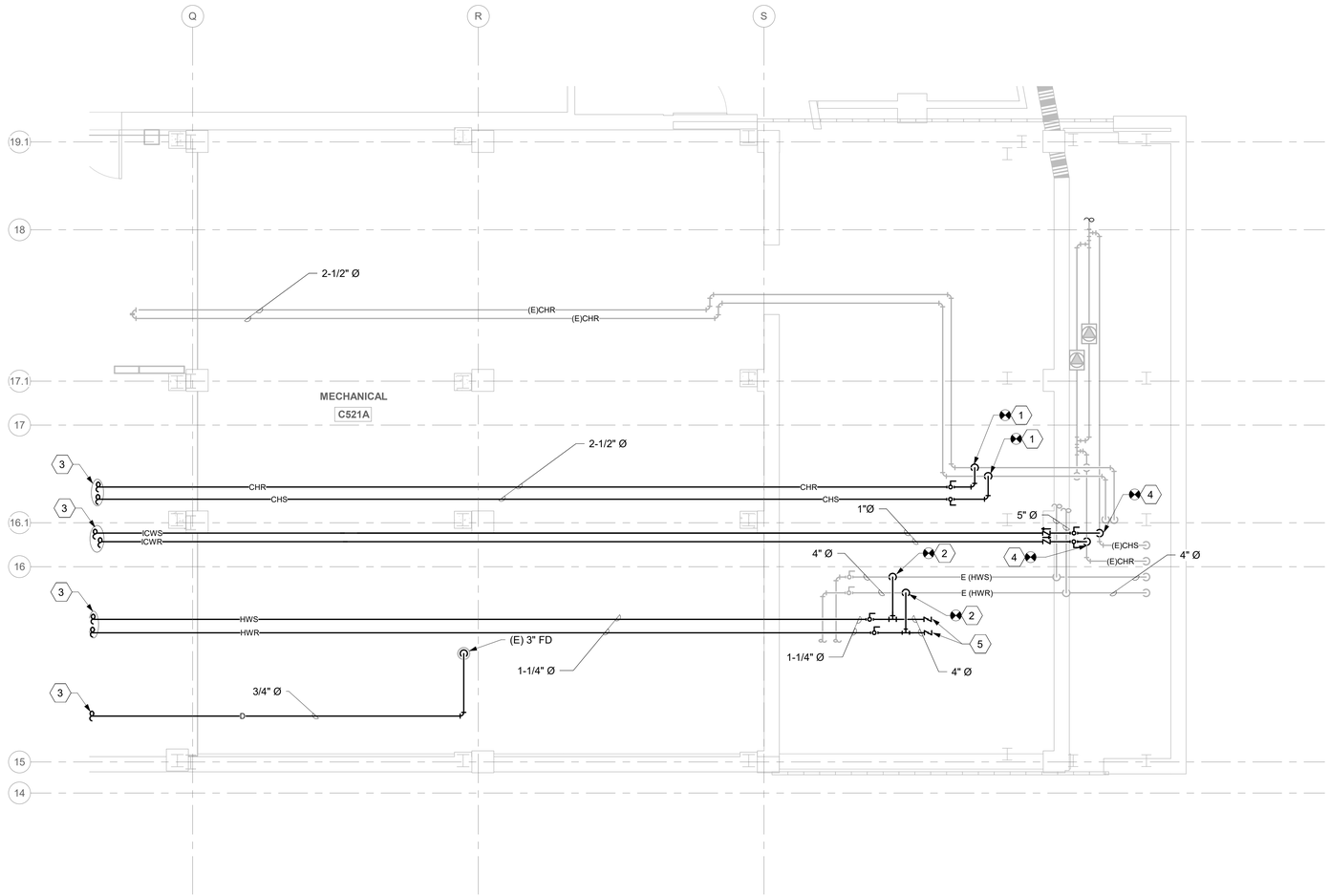
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 05 - DEMOLITION, FLOOR PLANS & RCPS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-M-413
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:17 PM

VA FORM 08 - 6231



1 LEVEL 05 - MECHANICAL ROOM

1/4" = 1'-0"

PROJECT NORTH

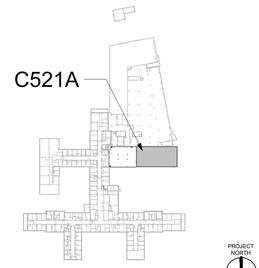
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

KEYNOTES (#)

1. TIE-IN NEW CHILLED WATER SUPPLY AND RETURN PIPES TO EXISTING CHILLED WATER LINE.
2. TIE-IN NEW HOT WATER SUPPLY AND RETURN PIPES TO EXISTING HOT WATER LINE.
3. FOR CONTINUATION, SEE SHEET 001-M-417.
4. TIE-IN NEW INTERMEDIATE CHILLED WATER SUPPLY AND RETURN PIPES TO EXISTING INTERMEDIATE CHILLED WATER LINE.
5. BUTTERFLY VALVES SHOWN ARE TO BE TERMINATION POINTS FOR FUTURE USE CONNECTIONS. CAP PIPING AFTER VALVE.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 9/22/25

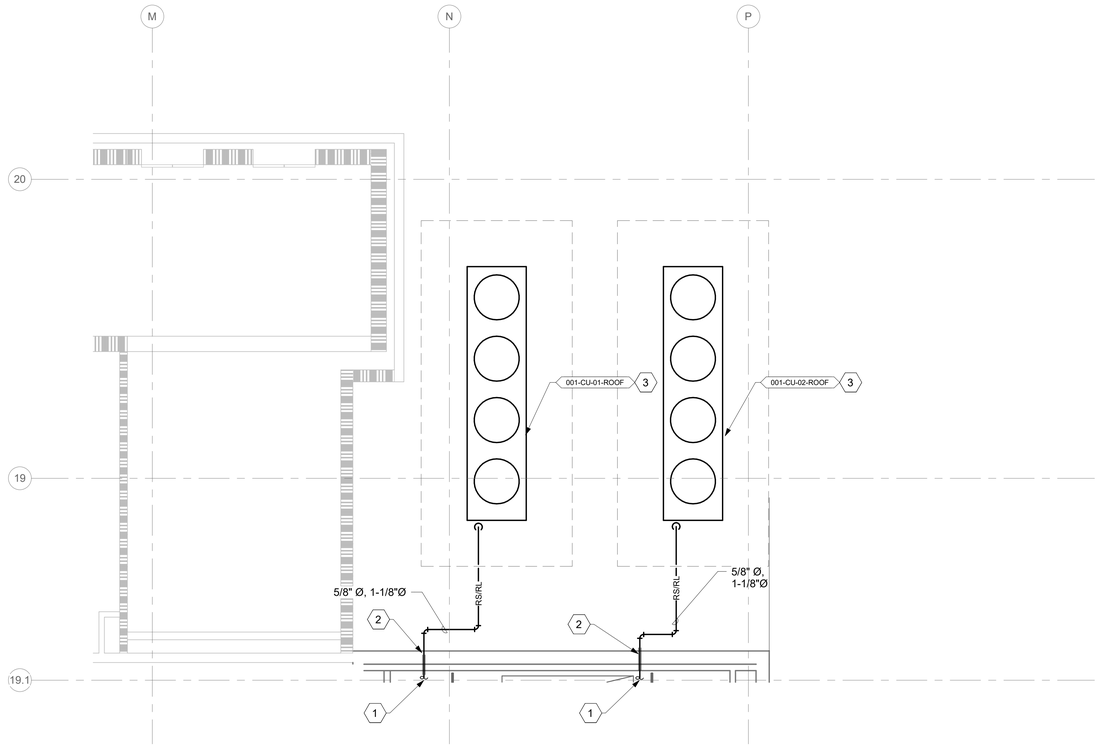
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 05 - FLOOR PLANS - MECHANICAL ROOM
Approved:	
Phase	100% CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Project Number	528A7-22-700
Building Number	001
Drawing Number	001-M-414

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
9/22/2025 3:01:49 PM

VA FORM 08 - 6231



1 LEVEL 05 - ROOF PLAN
1/4" = 1'-0"

PROJECT NORTH

GENERAL NOTES

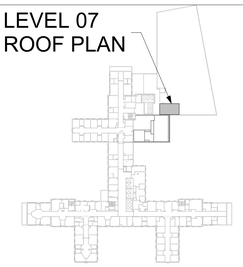
1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

KEYNOTES (#)

1. FOR CONTINUATION, SEE SHEET 001-M-419.
2. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
3. ATTACH UNIT TO RAILS PER MANUFACTURER'S REQUIREMENTS, SEE "ROOF EQUIPMENT SUPPORT DETAIL" ON SHEET M-503.

KEY PLAN

LEVEL 07
ROOF PLAN



SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

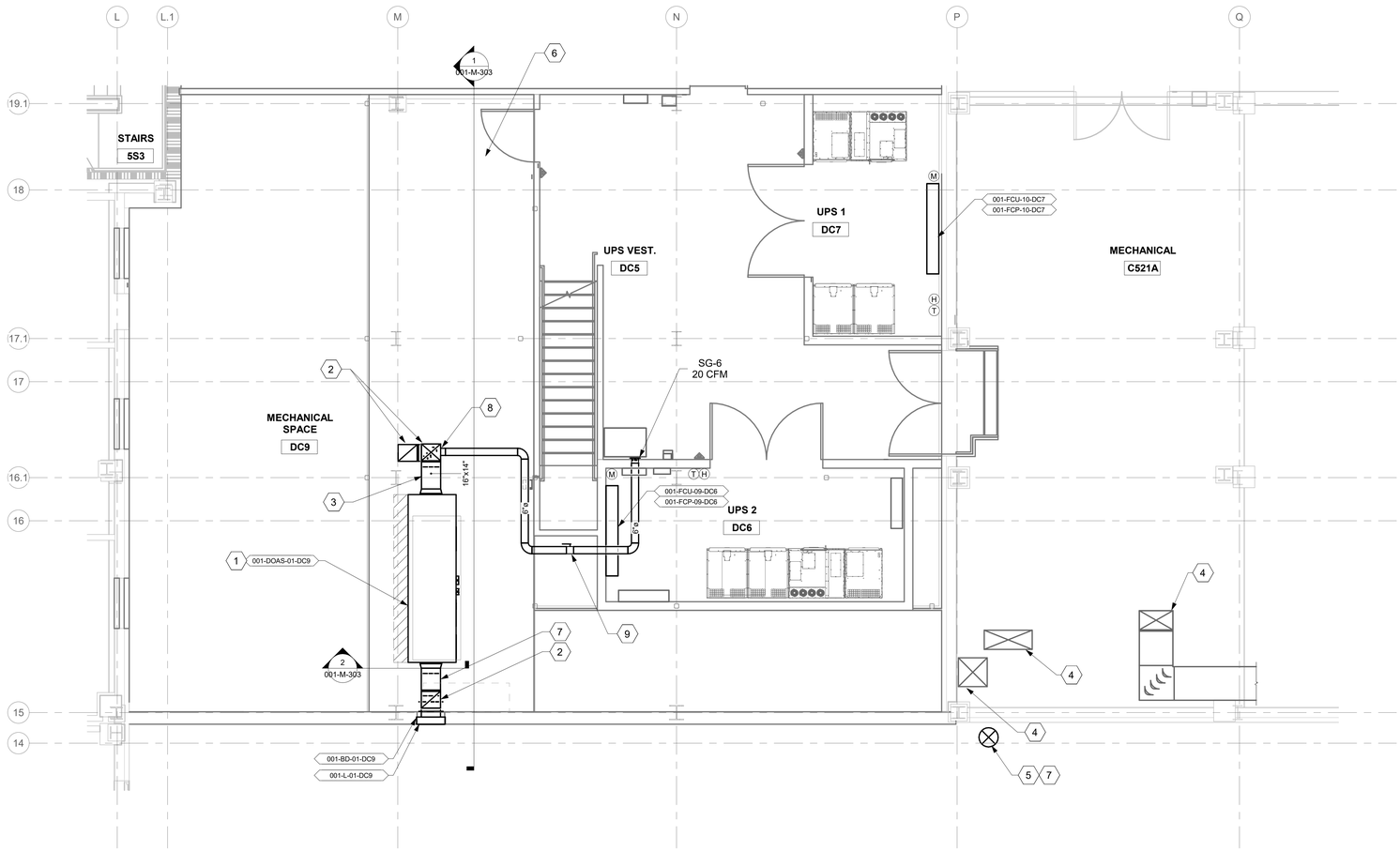
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 05 - ROOF PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-M-415
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:22 PM

VA FORM 08 - 6231



1 DATA CENTER - HVAC DUCTING PLAN

1/4" = 1'-0"

PROJECT NORTH

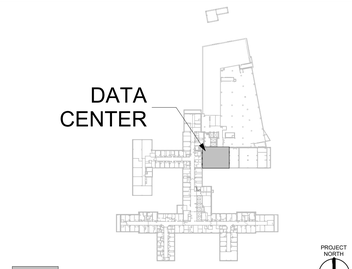
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

KEYNOTES (#)

1. FURNISH AND INSTALL NEW DOAS UNIT AND ASSOCIATED DUCTWORK AND ACCESSORIES. SEE EQUIPMENT SCHEDULES ON SHEET M-602.
2. FOR CONTINUATION, SEE SHEET 001-M-418.
3. DUCTWORK IS STACKED AT THIS LOCATION. FOR MORE CLARITY, SEE SHEET 001-M-303.
4. EXISTING DUCTWORK TO REMAIN.
5. TO LEVEL BELOW. FOR CONTINUATION, SEE SHEET 001-M-412.
6. NEW CAT WALK, SEE STRUCTURAL PLANS FOR DETAILS.
7. TO LEVEL ABOVE. FOR CONTINUATION, SEE SHEET 001-M-418.
8. TAP TO CONNECT TO DUCTWORK IN RISER AFTER TURNING VANE ELBOW.
9. PRESSURE INDEPENDENT VOLUME FLOW LIMITER TO MAINTAIN CONSTANT FLOW IN AIR STREAM.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

Office of Construction and Facilities Management

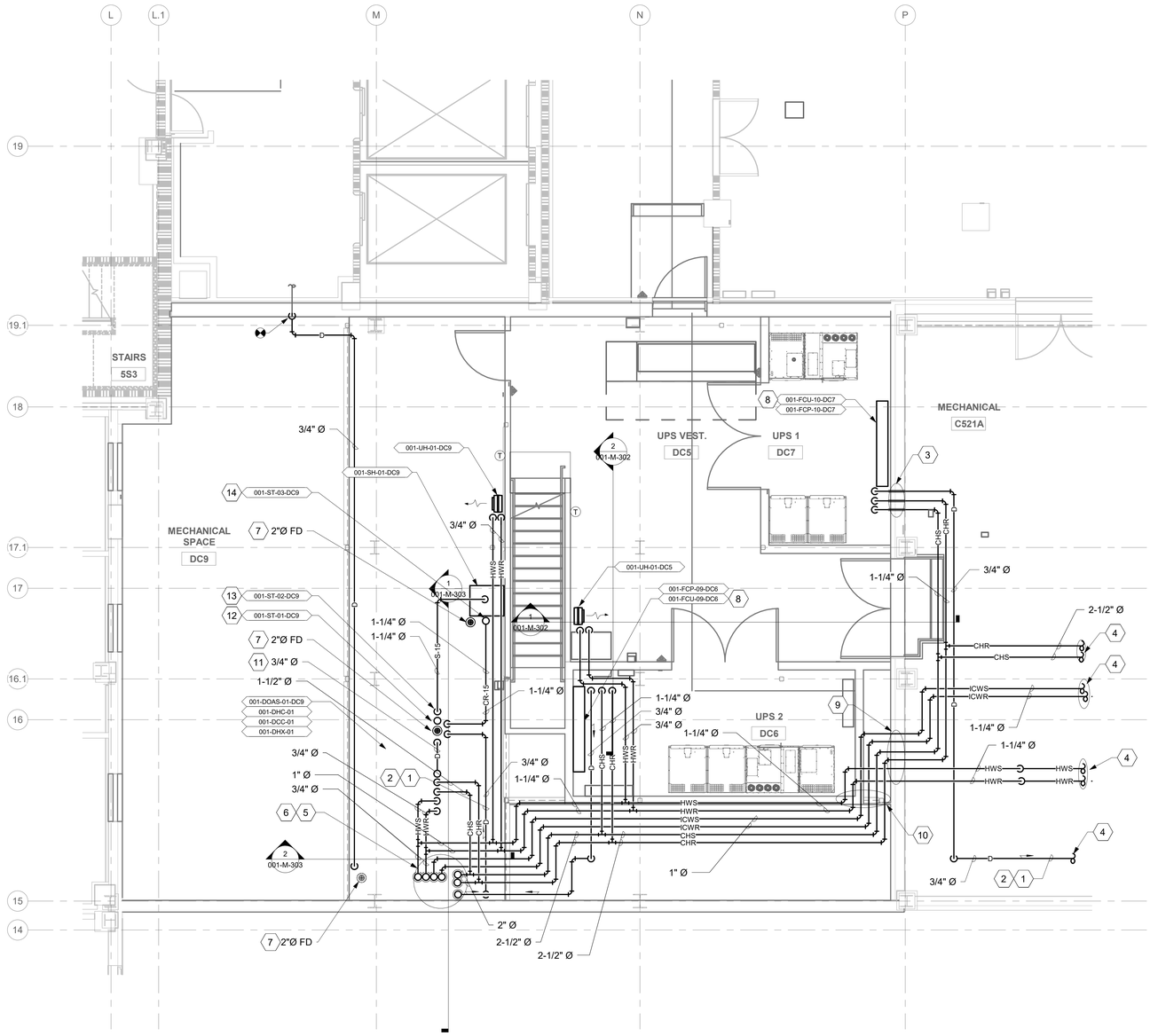
VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 001 - LEVEL - 05 - DATA CENTER - HVAC DUCTING PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
	Building Number 001
Location VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-416
Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:25 PM

VA FORM 08 - 6231



1 DATA CENTER - HVAC PIPING PLAN

1/4" = 1'-0"

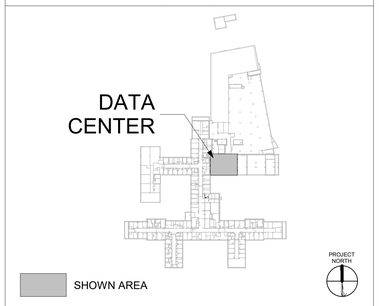
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

KEYNOTES (#)

1. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE INSULATION FOR ALL CONDENSATE LINES PER SPECIFICATION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11. PITCH CONDENSATE DRAIN LINE IN THE DIRECTION OF THE FLOW ALL CONDENSATE LINES SHALL SLOPE AT NO LESS THAN 1/8" PER LINEAR FOOT.
2. CRAC UNITS CONTAIN A FACTORY INSTALLED CONDENSATE TRAP. DO NOT TRAP EXTERNAL TO THE UNIT. PROVIDE CLEANOUTS AT EACH TURN IN THE DIRECTION OF FLOW.
3. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
4. FOR CONTINUATION, SEE SHEET 001-M-414.
5. FOR CONTINUATION, SEE SHEET 001-M-419.
6. PROVIDE FLOOR OPENING AND PIPE SLEEVE. SEE "PIPE THRU FLOOR DETAIL" ON SHEET M-501.
7. FOR CONTINUATION, SEE SHEET 001-P-402.
8. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
9. CONTRACTOR TO ROUTE PIPING THROUGH DEMOLISHED WINDOW AND VERTICALLY STACKED IN CHASE. PIPING SHALL NOT PASS THROUGH UPS 2 ROOM.
10. PIPING TO ROUTE STACKED VERTICALLY BETWEEN COLUMN AND CHASE WALL.
11. CHILLED WATER COIL CONDENSATE CONNECTION UP TO DOAS.
12. 1" STEAM CONDENSATE FROM STEAM DISPERSION TUBES, TRAP TO BE MOUNTED 12" ABOVE DRAIN LEVEL.
13. STEAM CONDENSATE FROM HUMIDIFIER, TRAP TO BE MOUNTED A MINIMUM 12" ABOVE DRAIN LEVEL AT LOWEST POINT AND BELOW DOAS DISPERSION TUBE PIPING CONNECTION.
14. STEAM CONDENSATE FROM HUMIDIFIER, TRAP TO BE MOUNTED A MINIMUM 12" ABOVE DRAIN LEVEL AND PER MANURFACTURER REQUIREMENTS.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

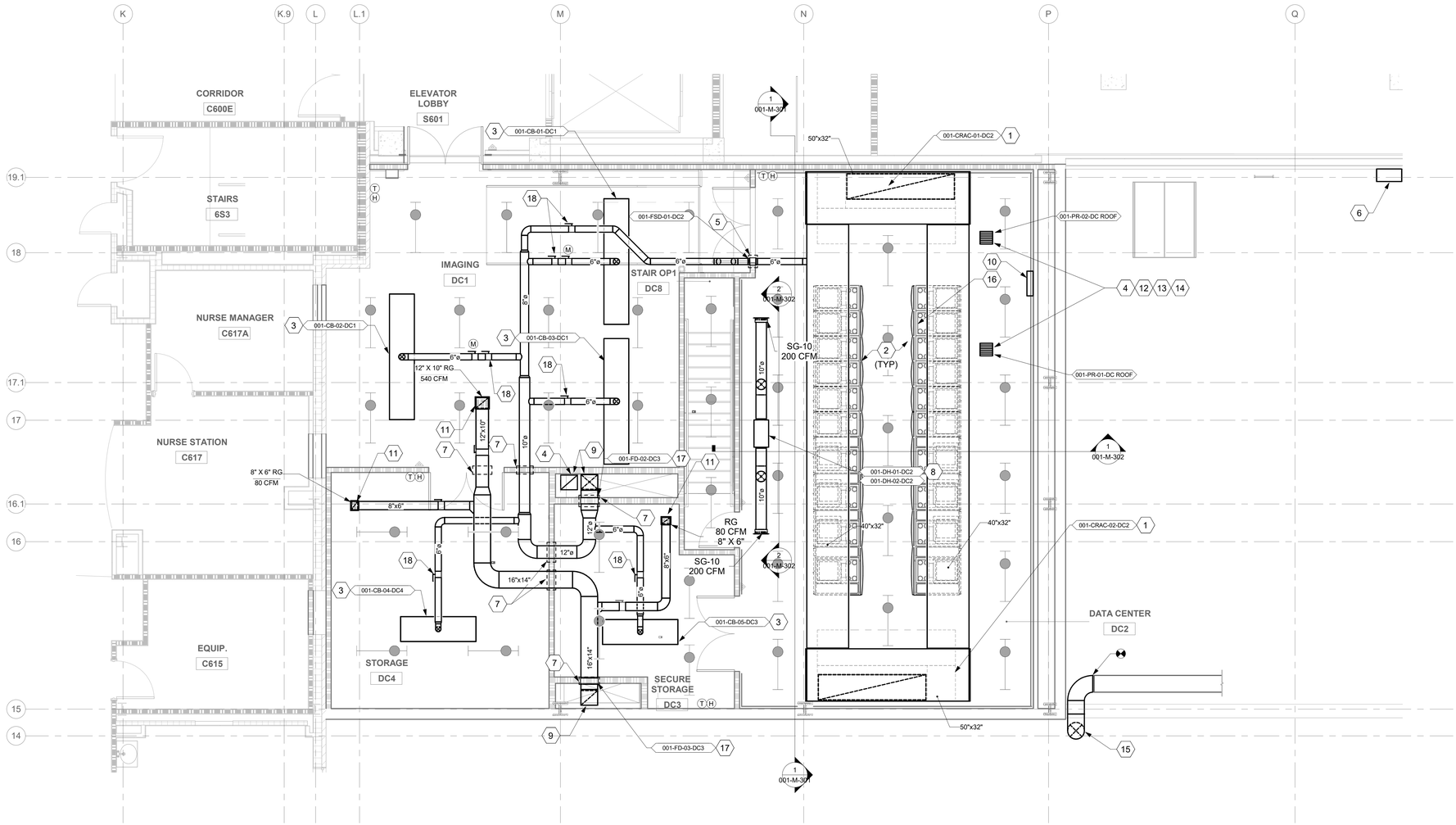
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 05 - DATA CENTER - PIPING PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-M-417
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:30 PM

VA FORM 08 - 6231



1 LEVEL 06 - DATA CENTER - HVAC DUCTING PLAN

1/4" = 1'-0"

PROJECT NORTH

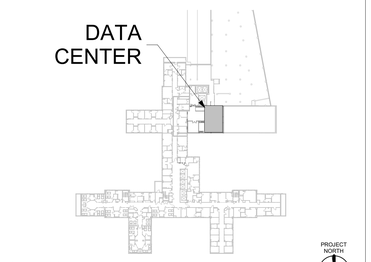
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.
4. NEW DUCTWORK TO BE MINIMUM OF 26 GAUGE.

KEYNOTES (#)

1. FURNISH AND INSTALL CRAC UNIT AND ASSOCIATED HOT AIR RETURN DUCT. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
2. FURNISH AND INSTALL VERTICAL EXHAUST DUCT KIT FOR EACH SERVER CABINET AND CONNECT VERTICAL EXHAUST DUCT KIT TO THE RETURN DUCT ABOVE.
3. FURNISH AND INSTALL NEW CHILLED BEAMS AND ASSOCIATED DUCTWORK AND ACCESSORIES. SEE EQUIPMENT SCHEDULES ON SHEET M-602.
4. FOR CONTINUATION SEE SHEET 001-M-421.
5. FURNISH AND INSTALL FIRE/SMOKE DAMPER. SEE "SECTION THRU FIRE DAMPER INSTALLATION DETAIL" ON SHEET M-503.
6. INSTALL RETAINED TEMPERATURE SENSOR RETAINED ON SHEET 001-MD-402.
7. PROVIDE WALL OPENING AND DUCT SLEEVE. SEE "DUCT THRU WALL DETAIL" ON SHEET M-502.
8. DEHUMIDIFIERS ARE STACKED, SEE SHEET 001-M-302 FOR MORE DETAIL.
9. TO LEVEL BELOW, FOR CONTINUATION SEE SHEET 001-M-416.
10. FURNISH AND INSTALL BMS JACE.
11. FURNISH AND INSTALL NEW RETURN DIFFUSERS. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
12. FURNISH AND INSTALL CLEAN AGENT FIRE SUPPRESSION RELIEF DAMPER IN VERTICAL DUCTWORK. FREE AREA FOR RELIEF VENT TO BE DETERMINED BY FIRE PROTECTION DELEGATED DESIGN CONTRACTOR.
13. FURNISH AND INSTALL EG GRILLES. SIZE OF GRILLES SHALL BE DETERMINED BY FIRE PROTECTION DELEGATED DESIGN CONTRACTOR TO ACCOUNT FOR THE RELIEF VENT SIZE.
14. THE PRESSURE RELIEF SYSTEM MUST INCLUDE BLAST PROTECTION IN THE FORM OF BLAST DAMPERS IF THE REQUIRED OPENING AREA EXCEEDS 1 SQUARE FOOT.
15. REROUTED NEW DUCTWORK. SEE SHEET 001-MD-403 FOR DEMOLITION.
16. SEE "DATA CENTER MONITERED RACK SENSOR LOCATIONS" ON SHEET M-503 AND CONTROLS DIAGRAM 6 ON SHEET M-702 FOR SENSOR LAYOUT IN MONITORED RACKS AND NUMBER OF MONITORED RACKS.
17. FIRE DAMPER THROUGH WALL ASSEMBLY. SEE "SECTION THRU FIRE DAMPER INSTALLATION" ON SHEET M-503.
18. PRESSURE INDEPENDENT VOLUME FLOW LIMITER TO MAINTAIN CONSTANT FLOW IN AIR STREAM.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

RACHEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

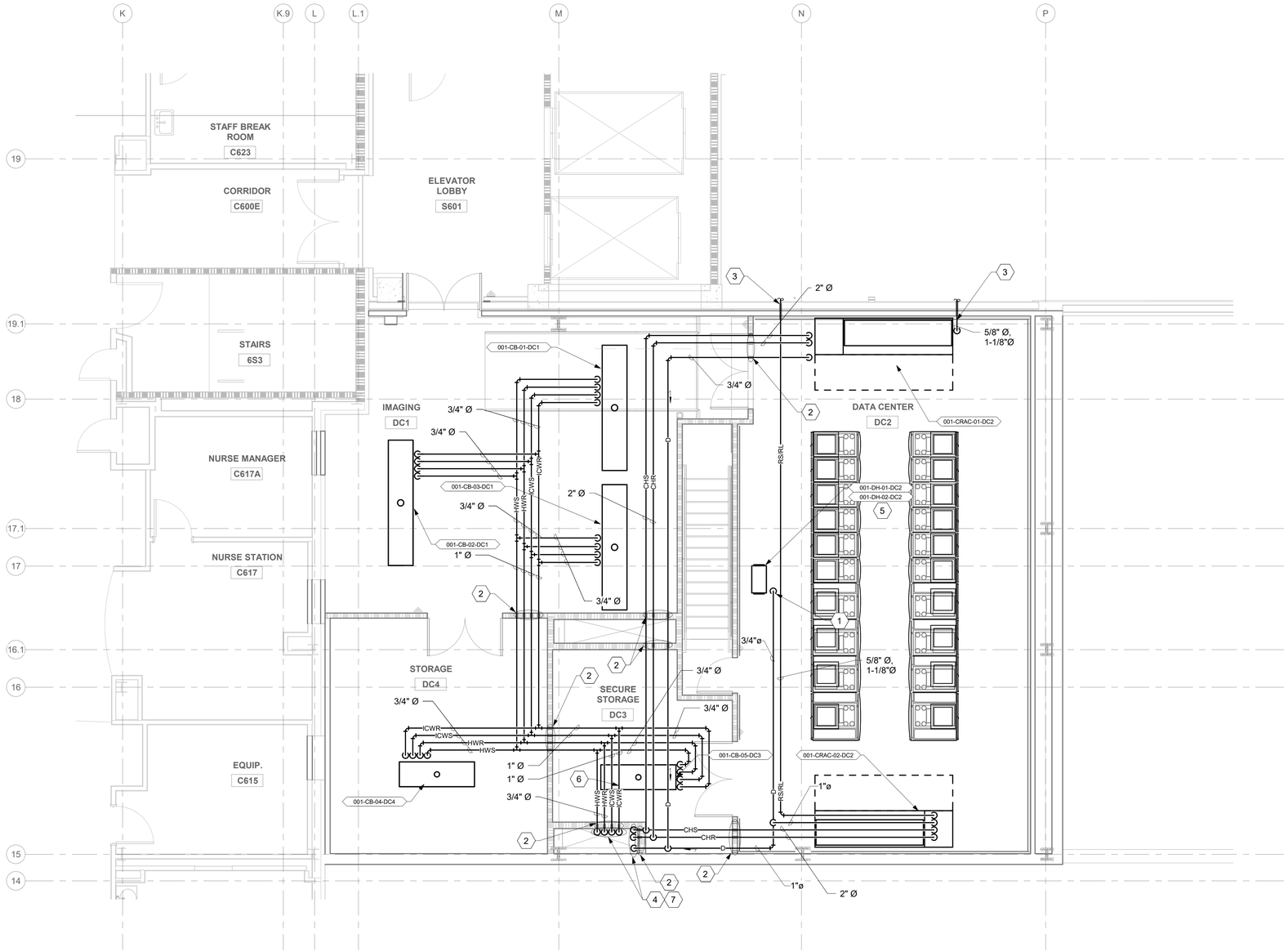
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 06 - DATA CENTER - HVAC DUCTING PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-M-418
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASy_01_ME_SDB.rvt
8/20/2025 1:18:32 PM

VA FORM 08 - 6231



1 LEVEL 06 - DATA CENTER - HVAC PIPING PLAN

1/4" = 1'-0"

PROJECT NORTH

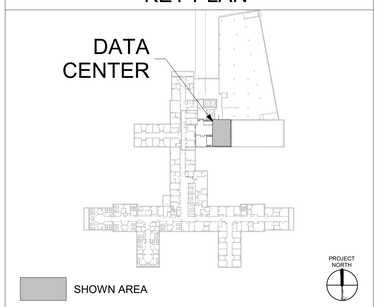
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. A SINGLE LINE IS USED TO INDICATE ALL REFRIGERANT PIPING ROUTED BETWEEN THE INDOOR AND OUTDOOR UNIT(S). THIS SINGLE LINE REPRESENTS ALL PIPING REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
4. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

KEYNOTES (#)

1. DEHUMIDIFIER CONDENSATE DRAIN LINE (STACKED).
2. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
3. FOR CONTINUATION, SEE SHEET 001-M-415.
4. FOR CONTINUATION, SEE SHEET 001-M-417.
5. DEHUMIDIFIERS ARE STACKED, SEE SHEET 001-M-302.
6. TEMPERATURE SENSOR LOCATION FOR INTERMEDIATE CHILLED WATER LOOP. SEE SHEET M-704 CHILLED BEAM SEQUENCE FOR REFERENCE.
7. PROVIDE FLOOR OPENING AND PIPE SLEEVE. SEE "PIPE THRU FLOOR DETAIL" ON SHEET M-501.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

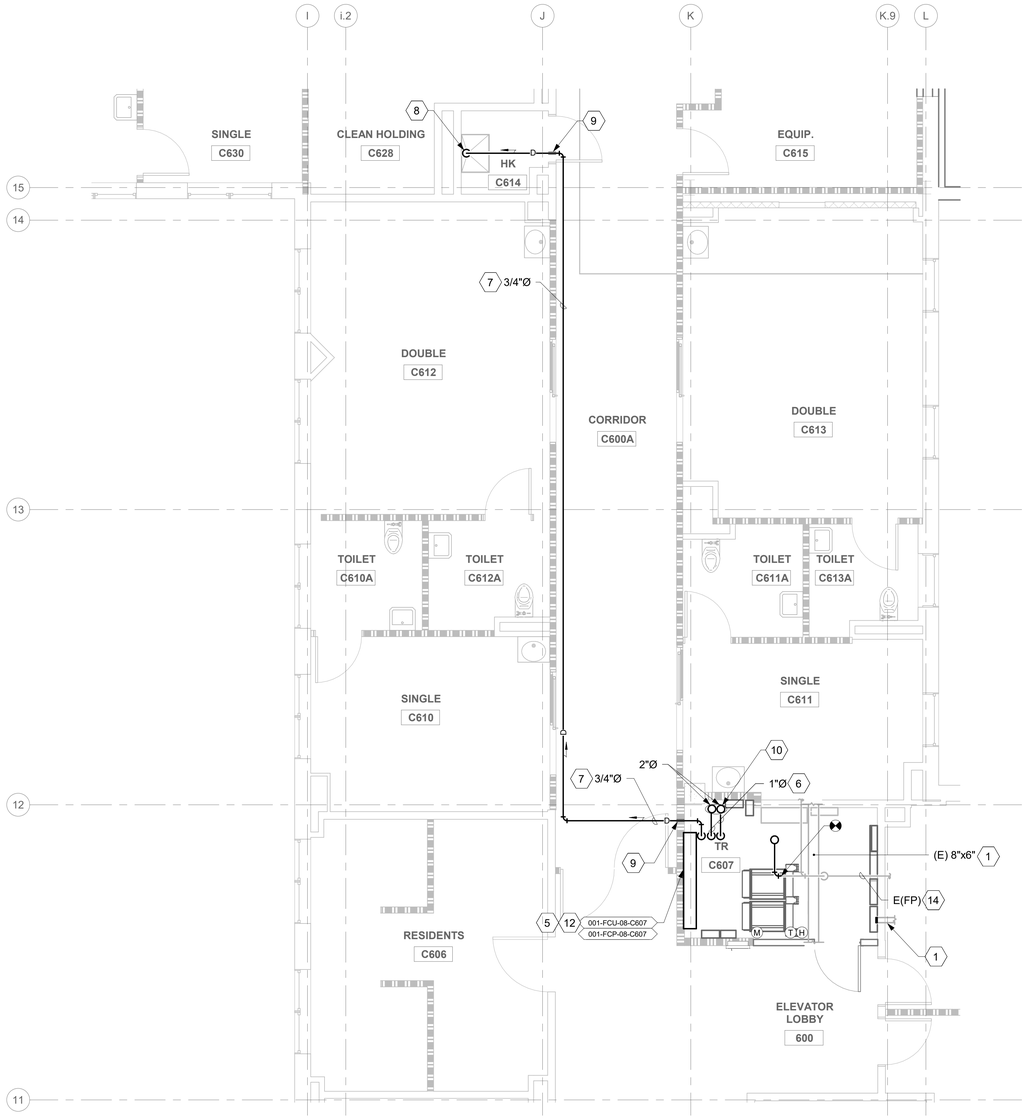
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

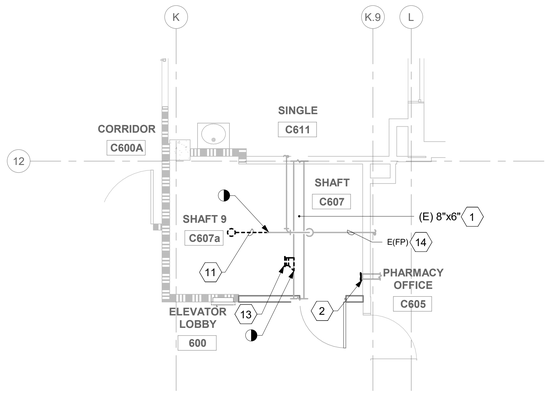
Drawing Title BUILDING - 001 - LEVEL - 06 - DATA CENTER - PIPING PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number 001
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 001-M-419
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:33 PM

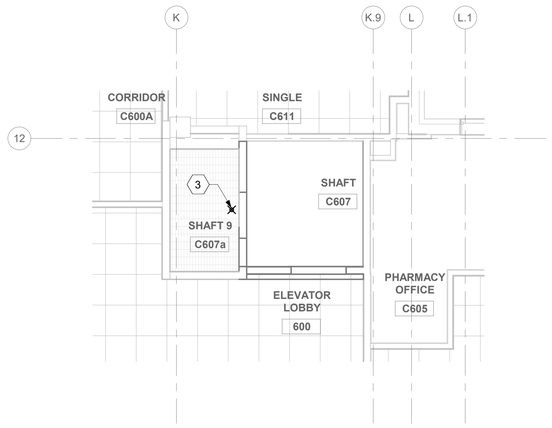
VA FORM 08 - 6231



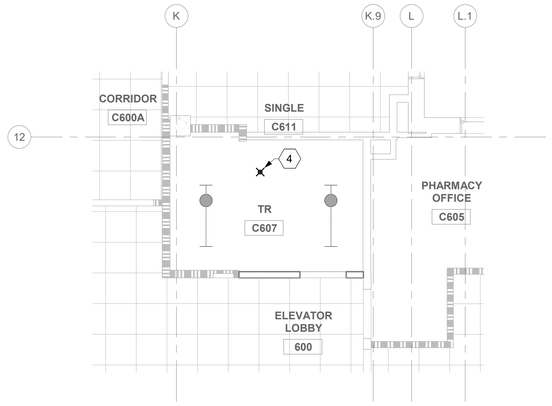
1 RM C607 - FLOOR PLAN
1/4" = 1'-0"



2 RM C607 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



3 RM C607 - DEMOLITION RCP
1/4" = 1'-0"



4 RM C607 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

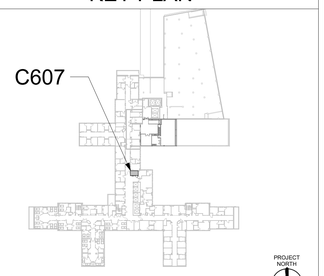
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING DUCTWORK TO REMAIN.
2. DEMOLISH WALL MOUNTED RETURN AIR GRILLE. CAP AND SEAL DUCTWORK.
3. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
4. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
5. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
6. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
7. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
8. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK . SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
9. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
10. FROM FLOOR ABOVE AND FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-413 AND 001-M-422.
11. DEMOLISH EXISTING FIRE PROTECTION PIPING.
12. RAISE UNIT 12" OFF FLOOR TO ALLOW FOR CONDENSATE RECEIVER.
13. DEMOLISH DUCT MOUNTED SUPPLY GRILLE. DEMOLISH BRANCH DUCTWORK BACK TO MAIN. CAP AND SEAL DUCTWORK AT MAIN.
14. EXISTING FIRE PROTECTION PIPING TO REMAIN.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

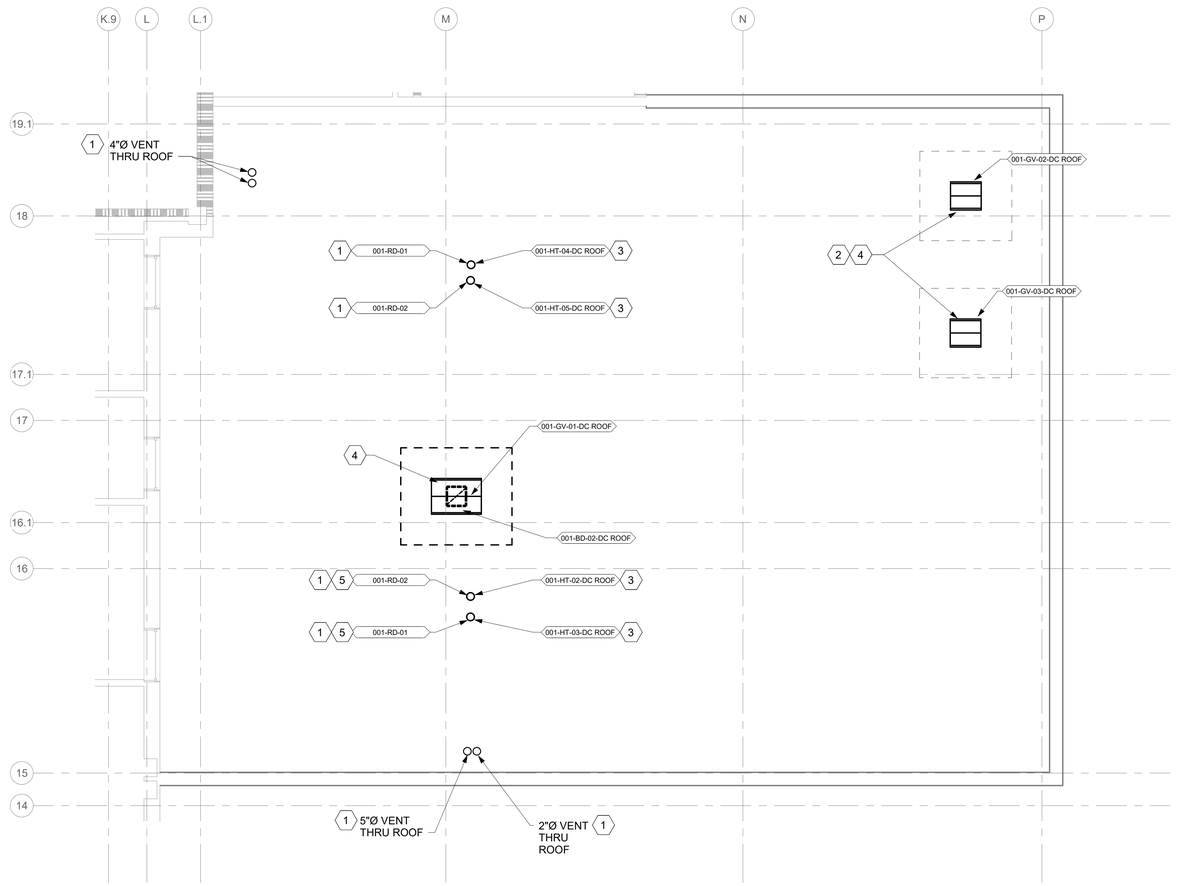
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BUILDING - 001 - LEVEL - 06 - DEMOLITION, FLOOR PLANS & RCPS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-M-420
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:41 PM

VA FORM 08 - 6231



1 LEVEL 7B NEW MCR ROOF

1/4" = 1'-0"

PROJECT NORTH

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. FOR CONTINUATION, SEE SHEET 001-P-404.
2. FOR CONTINUATION, SEE SHEET 001-M-417.
3. HEAT TRACE MINIMUM 10' FROM EXTERIOR PENETRATION. SEE MECHANICAL SHEETS FOR HEAT TRACE SCHEDULE.
4. SEE "LOW-SILHOUETTE EXHAUST OR INTAKE HOOD" ON SHEET M-502.
5. FURNISH AND INSTALL 3" DIAMETER ROOF DRAIN AND EMERGENCY OVERFLOW DRAIN. SEE EQUIPMENT SCHEDULE ON SHEET P-601.

KEY PLAN

DATA CENTER ROOF PLAN

SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

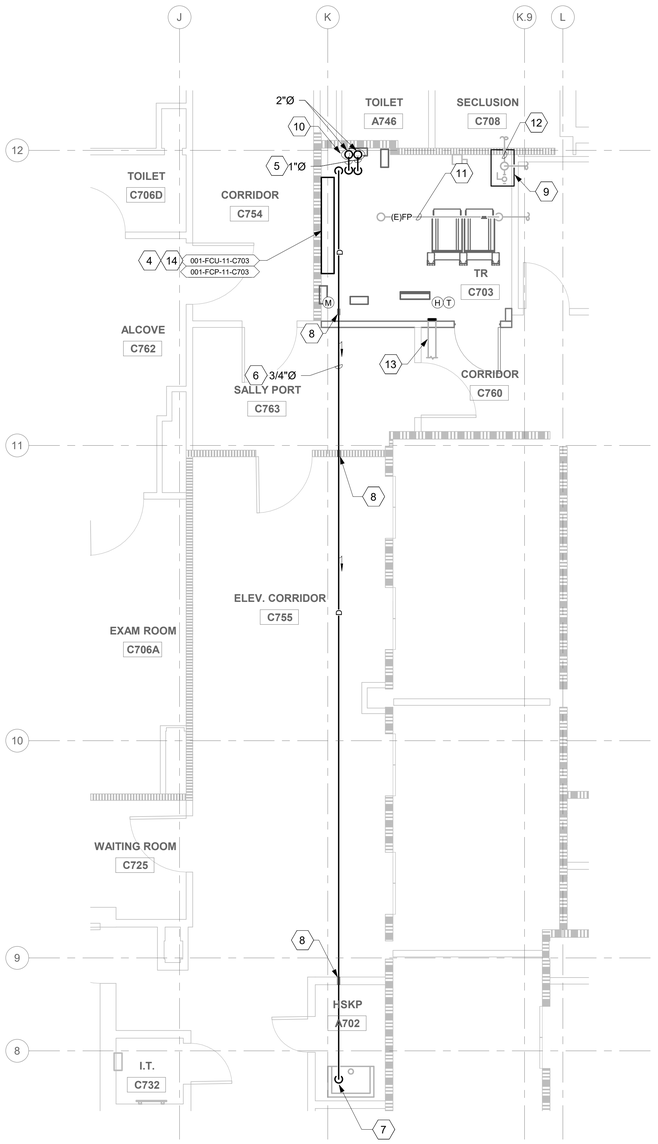
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

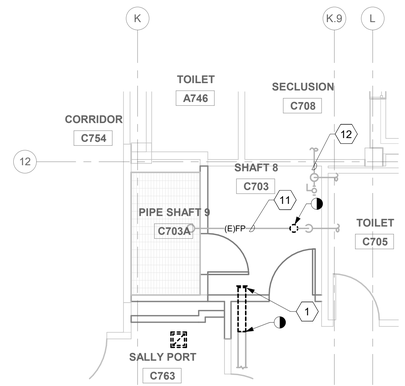
Drawing Title	BUILDING - 001 - LEVEL - 07 - DATA CENTER ROOF PLAN
Approved:	
Phase	100% CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Project Number	528A7-22-700
Building Number	001
Drawing Number	001-M-421

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:45 PM

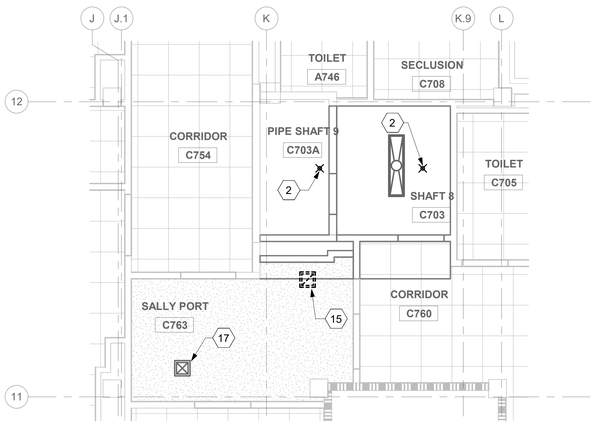
VA FORM 08 - 6231



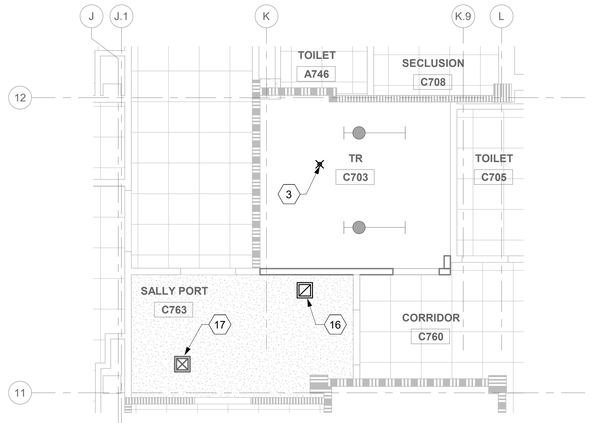
1 RM C703 - FLOOR PLAN
1/4" = 1'-0"



2 RM C703 & C703A - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



3 RM C703 & C703A - DEMOLITION RCP
1/4" = 1'-0"



4 RM C703 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

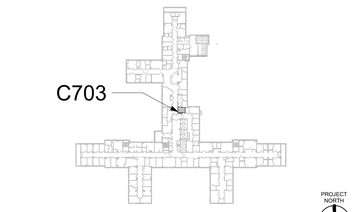
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. DEMOLISH WALL MOUNTED RETURN AIR GRILLE. CAP AND SEAL DUCTWORK.
2. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
3. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
4. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
5. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
6. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
7. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK. SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
8. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
9. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.
10. FROM FLOOR ABOVE AND FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-420 AND 001-M-423.
11. EXISTING FIRE PROTECTION PIPING TO REMAIN.
12. EXISTING PIPING TO REMAIN.
13. EXISTING DUCTWORK TO REMAIN.
14. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
15. DEMOLISH 12 X 12 CEILING RETURN GRILLE AND DUCTWORK IN LIMITS OF TELECOMMUNICATION ROOM. RETAIN CEILING GRILLE FOR INSTALLATION. SEE KEYNOTE 16.
16. INSTALL RETAINED 12 X 12 CEILING RETURN GRILLE, SEE KEYNOTE 15.
17. EXISTING SUPPLY DIFFUSER TO REMAIN.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

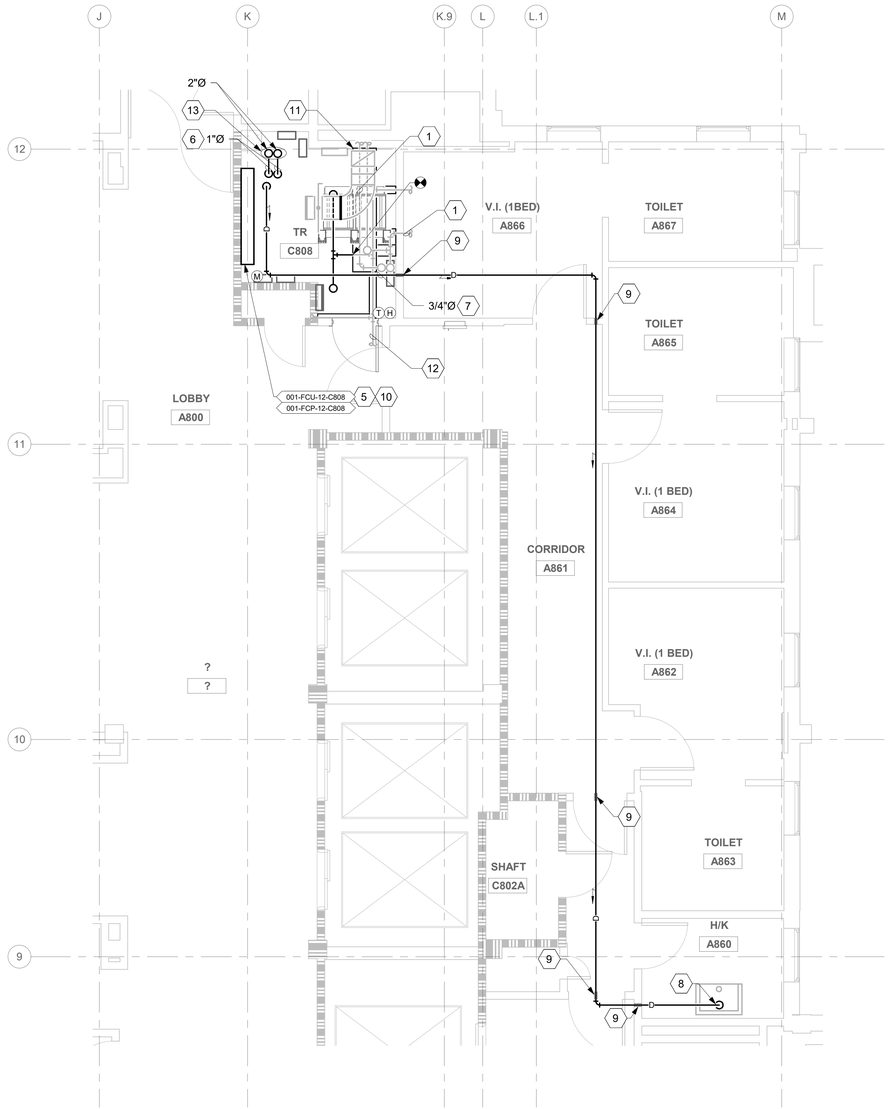
VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING - 001 - LEVEL - 07 - DEMOLITION, FLOOR PLANS & RCPS	Phase: 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

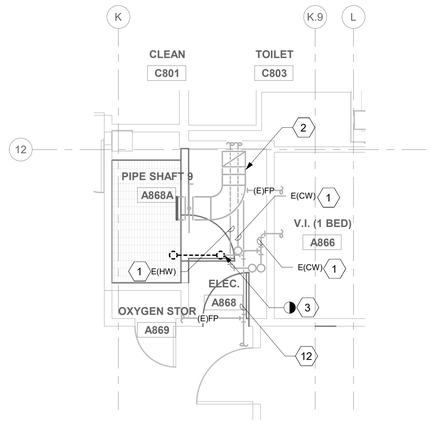
Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA			Project Number: 528A7-22-700
			Building Number: 001
Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210			Drawing Number: 001-M-422
Issue Date: 08/22/2025	Checked: MGH/JW	Drawn: AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:51 PM

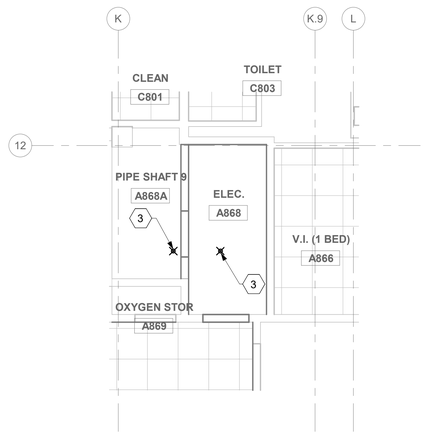
VA FORM 08 - 6231



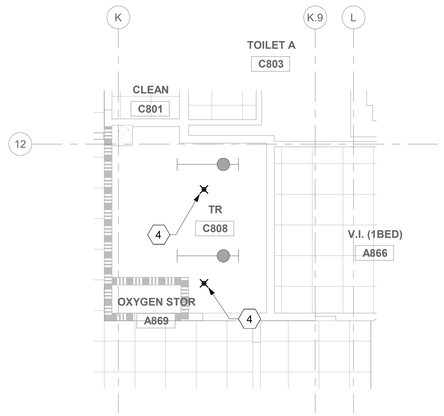
1 RM C808 - FLOOR PLAN
1/4" = 1'-0"



2 RM C808 & C808A - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



3 RM C808 & C808A - DEMOLITION RCP
1/4" = 1'-0"



4 RM C808 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

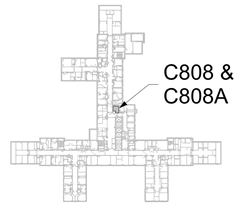
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. EXISTING DOMESTIC HOT AND COLD WATER PIPES TO REMAIN.
2. EXISTING DUCTWORK TO REMAIN.
3. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
4. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
5. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
6. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
7. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
8. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK . SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
9. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
10. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
11. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.
12. EXISTING FIRE PROTECTION PIPING TO REMAIN.
13. FROM FLOOR ABOVE AND FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-422 AND 001-M-424.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

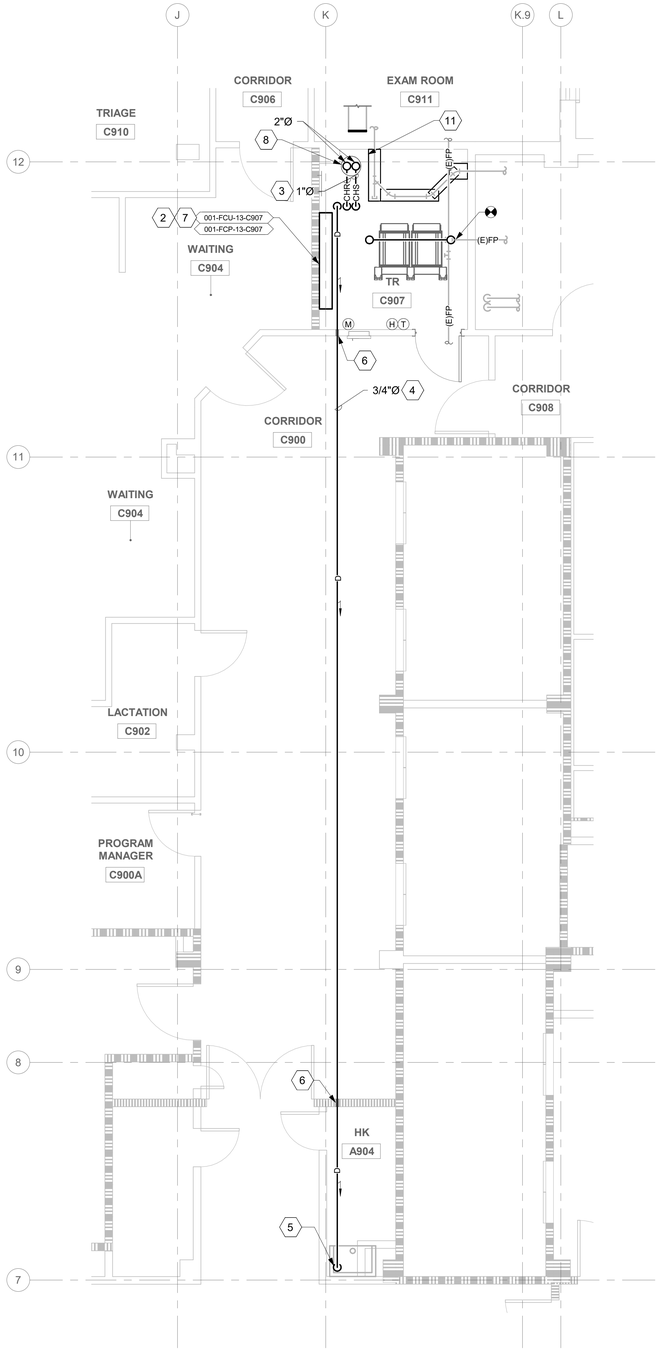
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

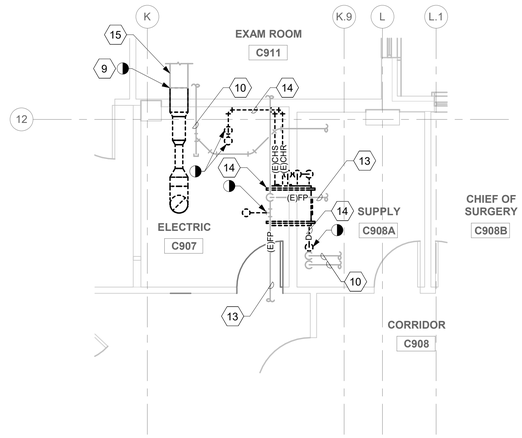
Drawing Title	BUILDING - 001 - LEVEL - 08 - DEMOLITION, FLOOR PLANS & RCPS
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Project Number	528A7-22-700
Building Number	001
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Drawing Number	001-M-423
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:18:57 PM

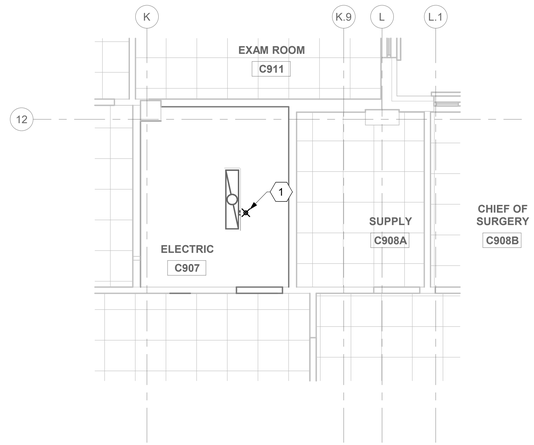
VA FORM 08 - 6231



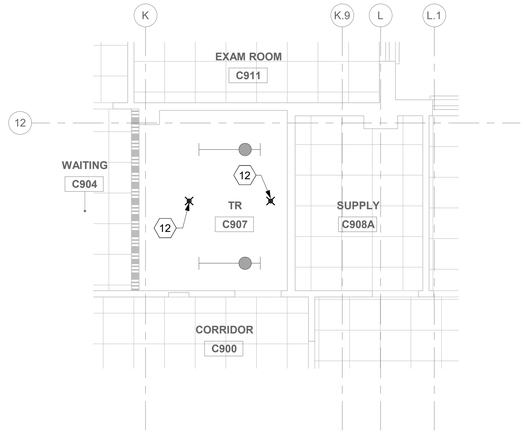
3 RM C907 - FLOOR PLAN
1/4" = 1'-0"



1 RM C907 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM C907 - DEMOLITION RCP
1/4" = 1'-0"



4 RM C907 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

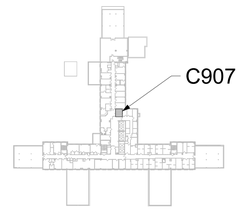
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

KEYNOTES (#)

1. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
2. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
3. FURNISH AND INSTALL NEW CHILLED WATER SUPPLY AND RETURN PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
4. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
5. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK. SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
6. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
7. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
8. FROM FLOOR ABOVE AND FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-423 AND 001-M-425.
9. DEMOLISH EXISTING BRANCH DUCTWORK BACK TO MAIN. CAP AND SEAL DUCTWORK AT MAIN.
10. EXISTING PIPING TO REMAIN.
11. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.
12. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
13. EXISTING FIRE PROTECTION PIPING TO REMAIN.
14. DEMOLISH EXISTING FAN COIL UNIT. DEMOLISH HYDRONIC PIPE SERVING FCU BACK TO MAIN. DEMOLISH CONDENSATE PIPE AND PATCH HOLES.
15. EXISTING DUCTWORK TO REMAIN.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

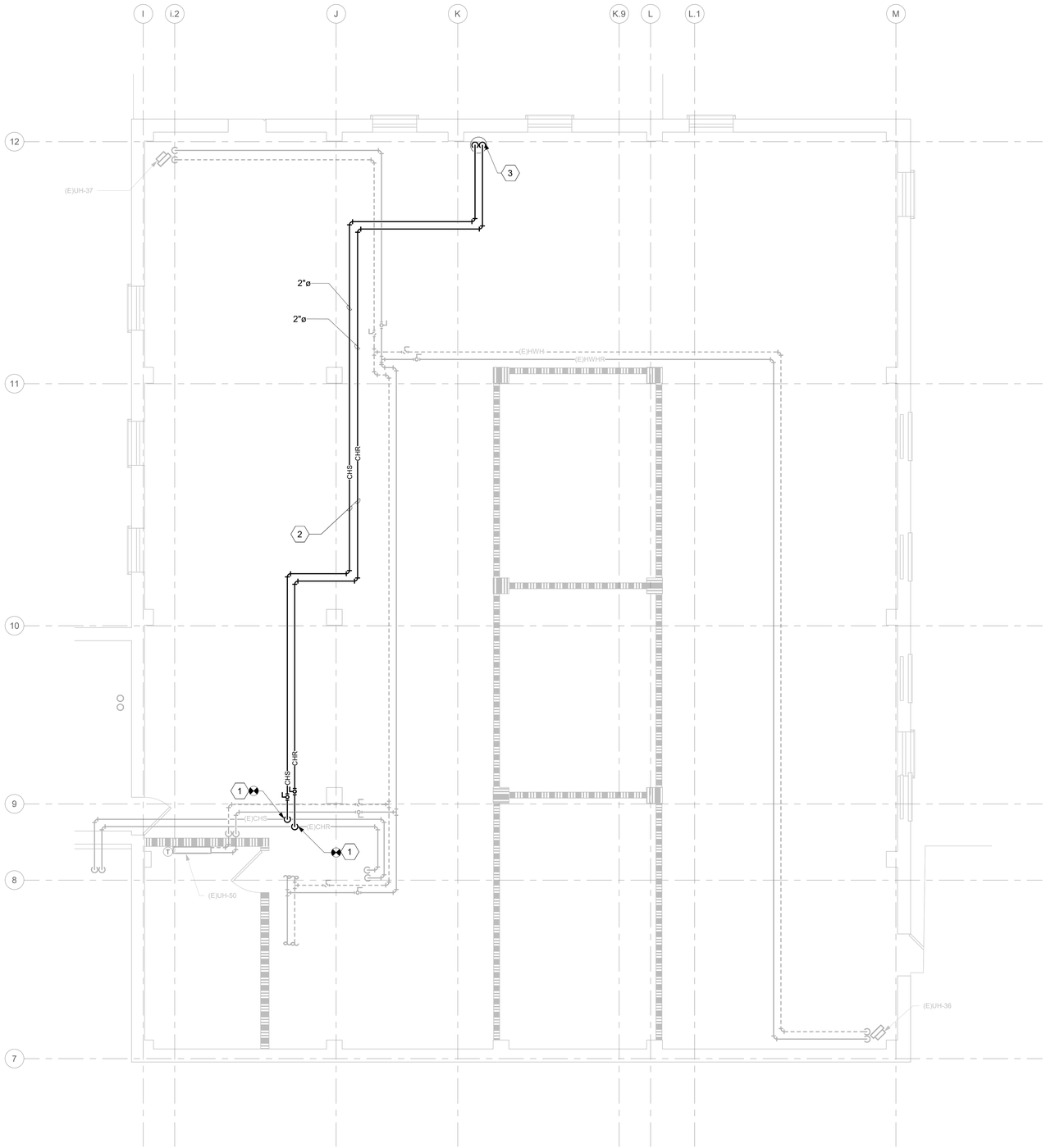
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: BUILDING - 001 - LEVEL - 09 - DEMOLITION, FLOOR PLANS & RCPS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	Project Number: 528A7-22-700
			Building Number: 001
Approved:	FULLY SPRINKLERED	Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	Drawing Number: 001-M-424
		Issue Date: 08/22/2025 / Checked: MGH/JW / Drawn: AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:19:02 PM

VA FORM 08 - 6231



1 LEVEL 10 - MECH ROOM - A1000
1/4" = 1'-0"

PROJECT NORTH

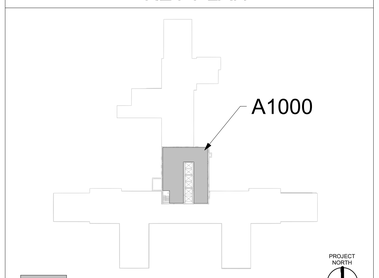
GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

KEYNOTES (#)

1. CONNECTION TO EXISTING CHILLED WATER SYSTEM. SHUTDOWN OF EXISTING CHILLED WATER SYSTEM IS PROHIBITED. A/E UNAWARE OF EXISTENCE OF LOCAL ISOLATION VALVES CONTRACTOR TO COORDINATE FREEZING LINE WITH COR.
2. PIPING TO ROUTE ABOVE EXISTING DUCT.
3. FROM FLOOR BELOW, FOR CONTINUATION SEE SHEET 001-M-424.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

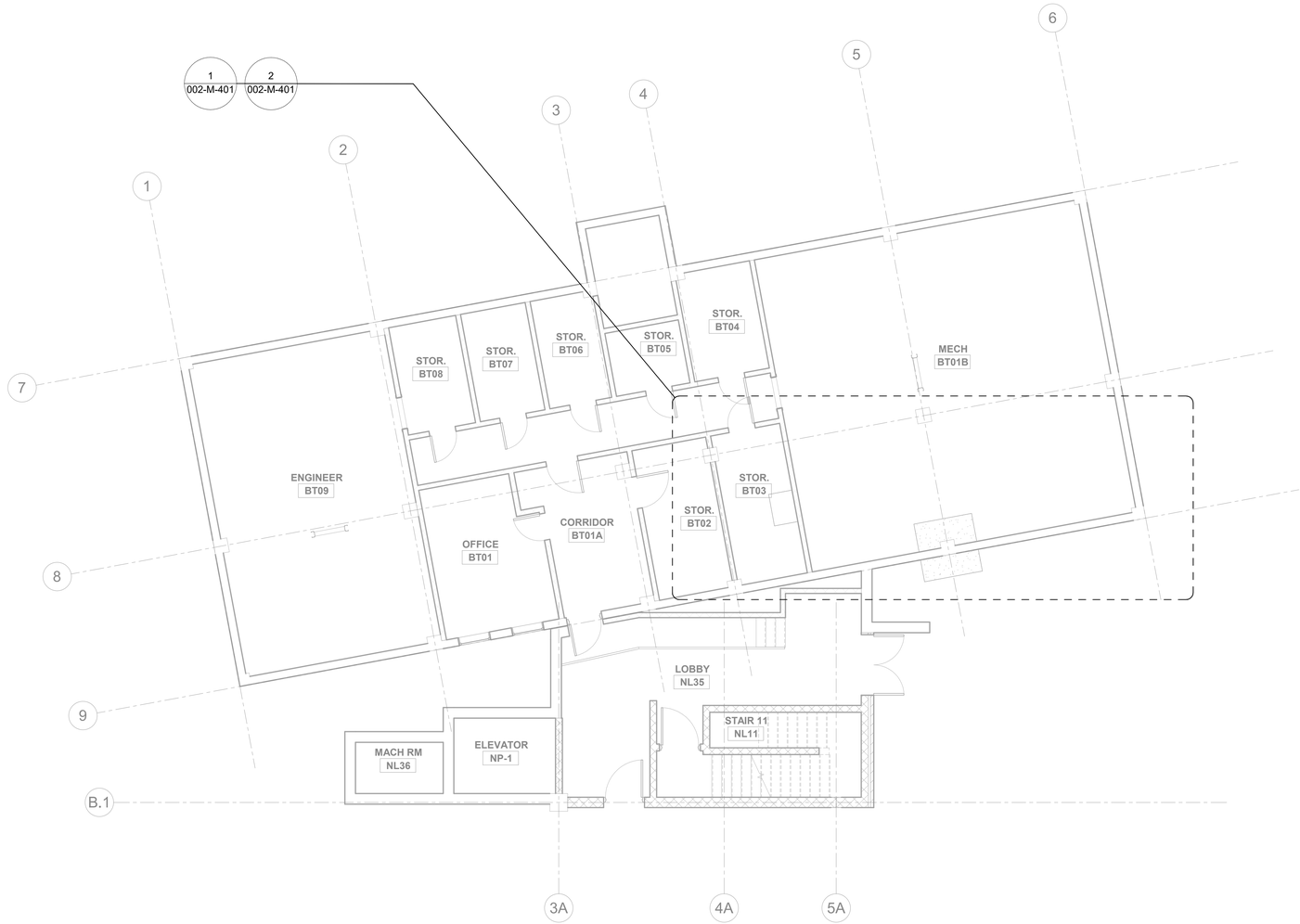
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING - 001 - LEVEL - 10 - FLOOR PLAN	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	Project Number: 528A7-22-700
Approved:	FULLY SPRINKLERED	Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	Building Number: 001
		Issue Date: 08/22/2025 / Checked: MGH/JW / Drawn: AP/CY/EA/JJ/MA	Drawing Number: 001-M-425

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 1:19:20 PM

VA FORM 08 - 6231

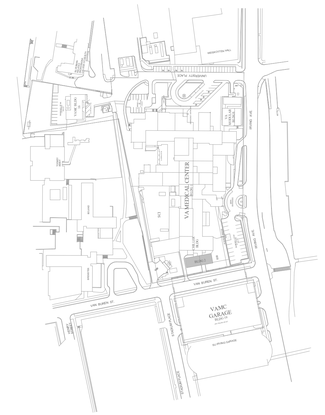


1 LEVEL 00B - OVERALL PLAN

3/16" = 1'-0"

PROJECT NORTH

SITE PLAN



SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

RACHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 002 - LEVEL - 00B - OVERALL PLAN

Approved:

Phase
100% CONSTRUCTION DOCUMENTS

NON SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

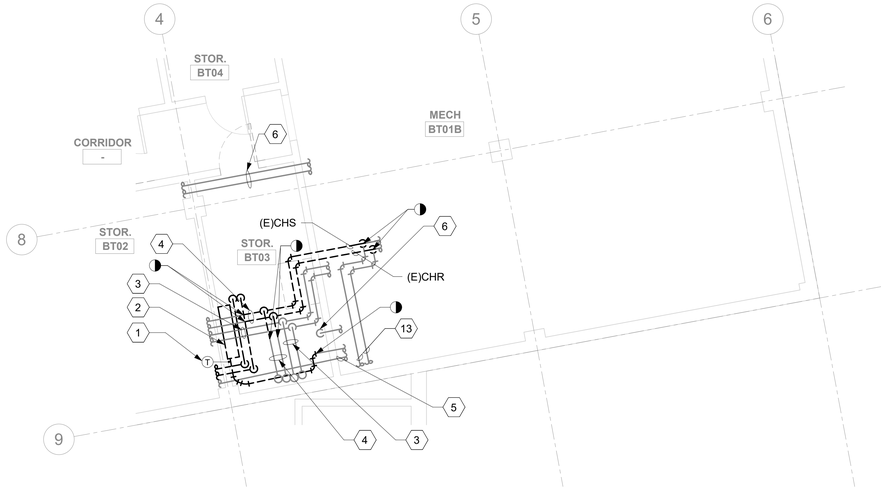
Project Number
528A7-22-700

Building Number
002

Drawing Number
002-M-101

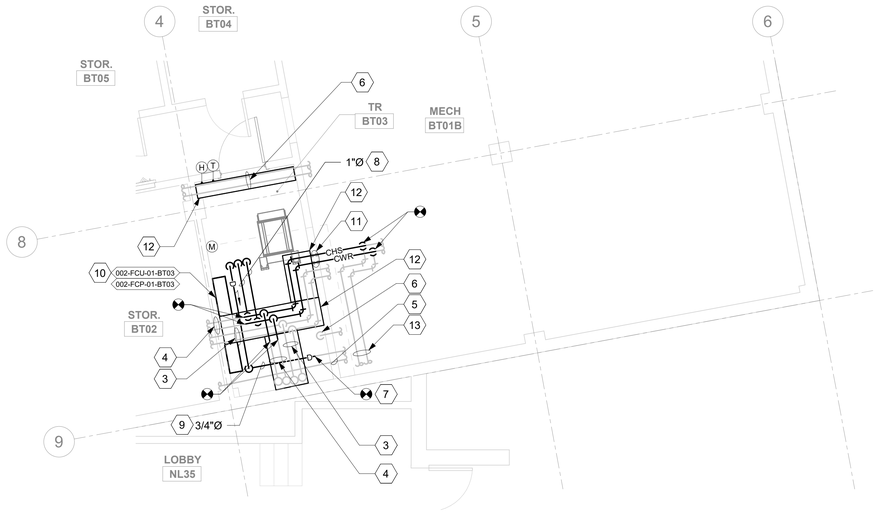
Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_02_ME_SDB.rvt
8/20/2025 8:14:45 AM

VA FORM 08 - 6231



1 RM BT03 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"

PROJECT NORTH



2 RM BT03 - FLOOR PLAN
1/4" = 1'-0"

PROJECT NORTH

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

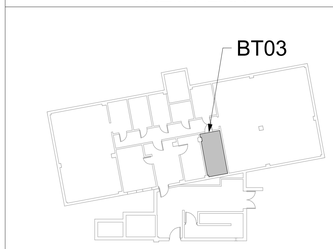
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK AND DASHED, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. DEMOLISH EXISTING WALL MOUNTED THERMOSTAT.
2. DEMOLISH EXISTING WALL MOUNTED AC UNIT. DEMOLISH HYDRONIC PIPE SERVING AC UNIT BACK TO MAIN. DEMOLISH CONDENSATE PIPE.
3. EXISTING GLYCOL HEATING SUPPLY AND RETURN PIPES TO REMAIN.
4. EXISTING COOLING WATER SUPPLY AND RETURN PIPES TO REMAIN.
5. EXISTING SANITARY PIPING TO REMAIN.
6. EXISTING PIPING TO REMAIN.
7. TIE-IN NEW CONDENSATE PIPING INTO THE EXISTING CONDENSATE PIPING.
8. FURNISH AND INSTALL NEW HYDRONIC PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
9. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
10. CONDENSATE PUMP TO BE PLACED UNDERNEATH UNIT.
11. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
12. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING PROVIDE DRAIN LINE. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.
13. EXISTING HYDRONIC PIPING TO REMAIN.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

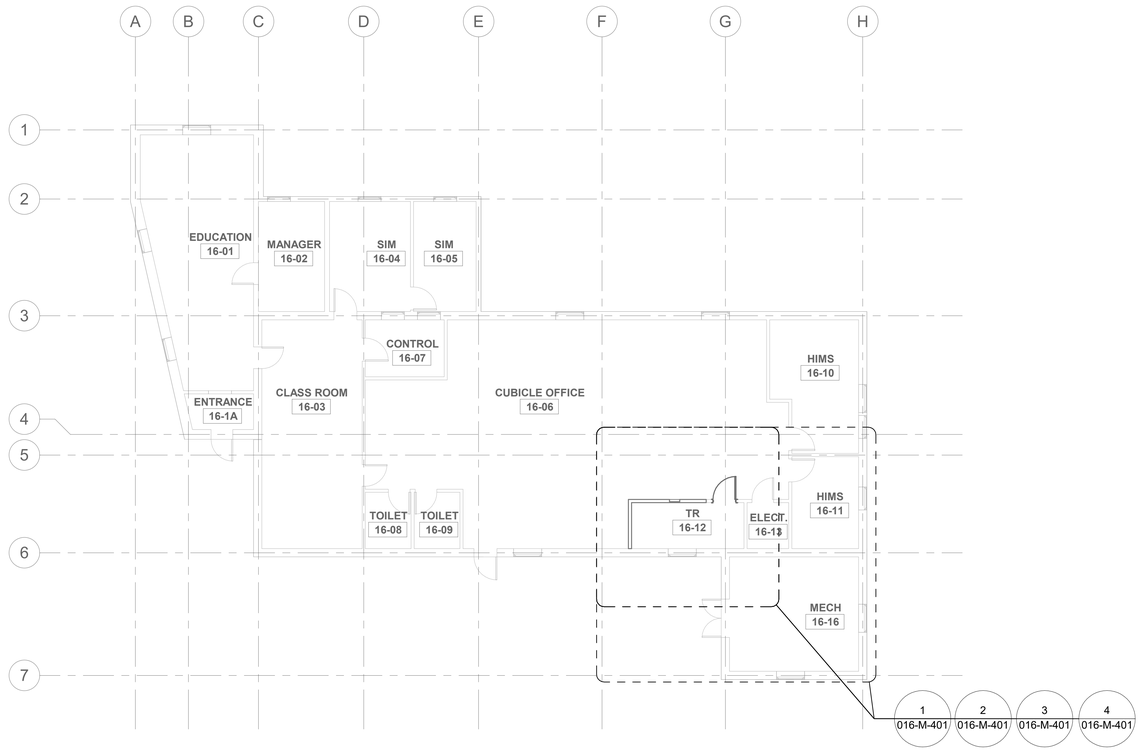
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 002 - LEVEL - 00B - DEMOLITION & FLOOR PLANS	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:	NON SPRINKLERED	**Location** VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** 002
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** 002-M-401

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_02_ME_SDB.rvt
8/20/2025 8:14:46 AM

VA FORM 08 - 6231



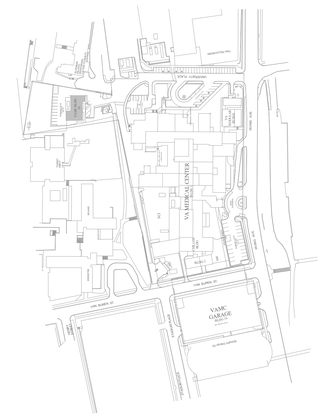
1 LEVEL 00 - OVERALL PLAN

1/8" = 1'-0"

PROJECT NORTH

0 2' 4' 8'

SITE PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - 016 - LEVEL - 00 - OVERALL PLAN

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number
528A7-22-700

Building Number
016

Approved:

FULLY SPRINKLERED

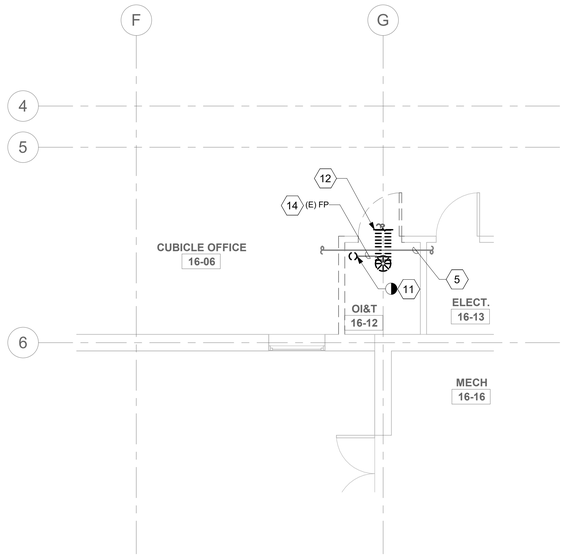
Location
VA NY SYRACUSE
800,IRVING AVE., SYRACUSE, NY 13210

Issue Date 08/22/2025
Checked MGH/JW
Drawn AP/CY/EA/JJ/MA

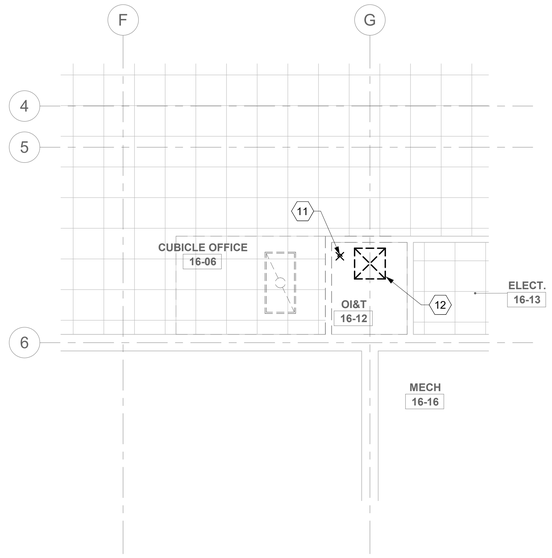
Drawing Number
016-M-101

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_16_ME_S0B.rvt
8/20/2025 8:15:03 AM

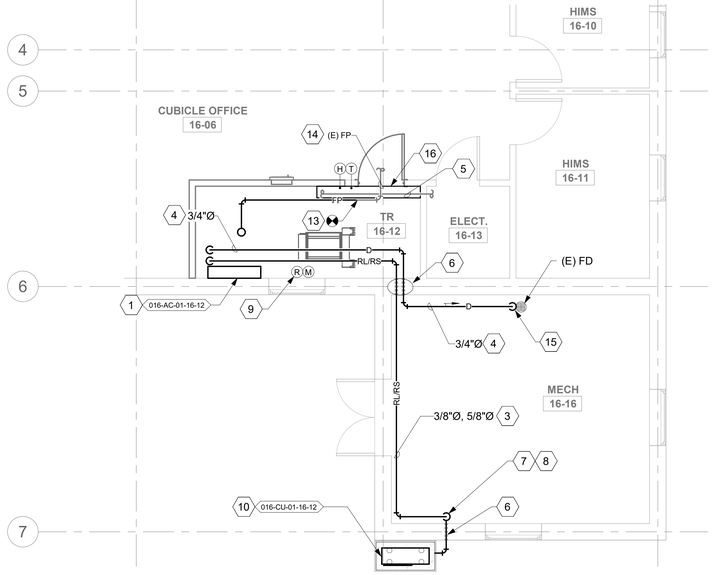
VA FORM 08 - 6231



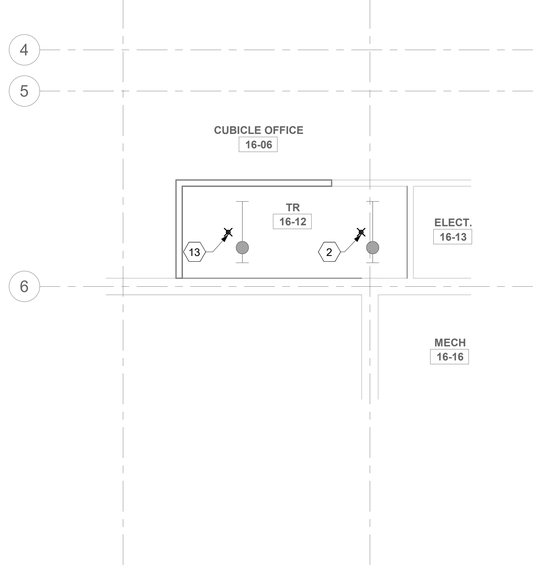
1 RM 16-12 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 RM 16-12 - DEMOLITION RCP
1/4" = 1'-0"



3 RM 16-12 - FLOOR PLAN
1/4" = 1'-0"



4 RM 16-12 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY. CONTRACTOR SHALL RACK PIPING AS CLOSE AS POSSIBLE TO INSIDE WALL OF TELECOM ROOM.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE AND REFRIGERANT PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

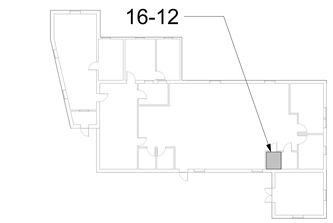
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK AND DASHED, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. INSTALL NEW DUCTLESS SPLIT COOLING UNIT. SEE EQUIPMENT SCHEDULE ON SHEET M-601.
2. INSTALL NEW STANDARD RESPONSE SPRINKLER IN AN UPRIGHT POSITION. INSTALL NEW BRANCH LINE, TIE-IN TO NEAREST EXISTING MAIN.
3. INSTALL NEW REFRIGERANT LINES PER MANUFACTURER REQUIREMENTS (INDOOR UNIT TO OUTDOOR UNIT). PROVIDE PIPE INSULATION FOR ALL REFRIGERANT LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11. PIPE SIZES SHOWN ON PLANS ARE ONLY APPLICABLE TO BASIS OF DESIGN MANUFACTURER.
4. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
5. EXISTING PIPING TO REMAIN.
6. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
7. CONTRACTOR TO PROVIDE 20 GAGE METAL SHEET SHROUDING/CLADDING TO COVER REFRIGERANT PIPING. USE LOW PROFILE UNISTRUT FOR REFRIGERANT PIPING. PAINT SHROUD TO MATCH ADJACENT WALL AND COORDINATE COLOR WITH COR.
8. ROUTE REFRIGERANT LINE DOWN TO 1'-0" ABOVE FINISH FLOOR LEVEL BEFORE PENETRATING WALL.
9. INSTALL REFRIGERANT SENSOR AT A HEIGHT OF NOT MORE THAN 1 FT. ABOVE FINISHED FLOOR.
10. SEE "CONDENSING UNIT GROUND MOUNT SUPPORT DETAIL" ON SHEET M-501.
11. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
12. DEMOLISH CEILING SUPPLY DIFFUSER. DEMOLISH BRANCH DUCTWORK BACK TO MAIN. CAP AND SEAL DUCTWORK AT MAIN.
13. EXTEND NEW SPRINKLER LINE OFF EXISTING BRANCH LINE. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
14. EXISTING FIRE PROTECTION PIPING TO REMAIN.
15. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING FLOOR SINK SANITARY LINE. SEE "INDIRECT DRAIN FLOOR SINK DETAIL" ON SHEET M-501.
16. PROVIDE DRIP PAN WITH MOISTURE SENSOR FOR EXISTING OVERHEAD PIPING. TIE MOISTURE SENSOR INTO EXISTING BMS AS AN ALARM POINT.

KEY PLAN



SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED — PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

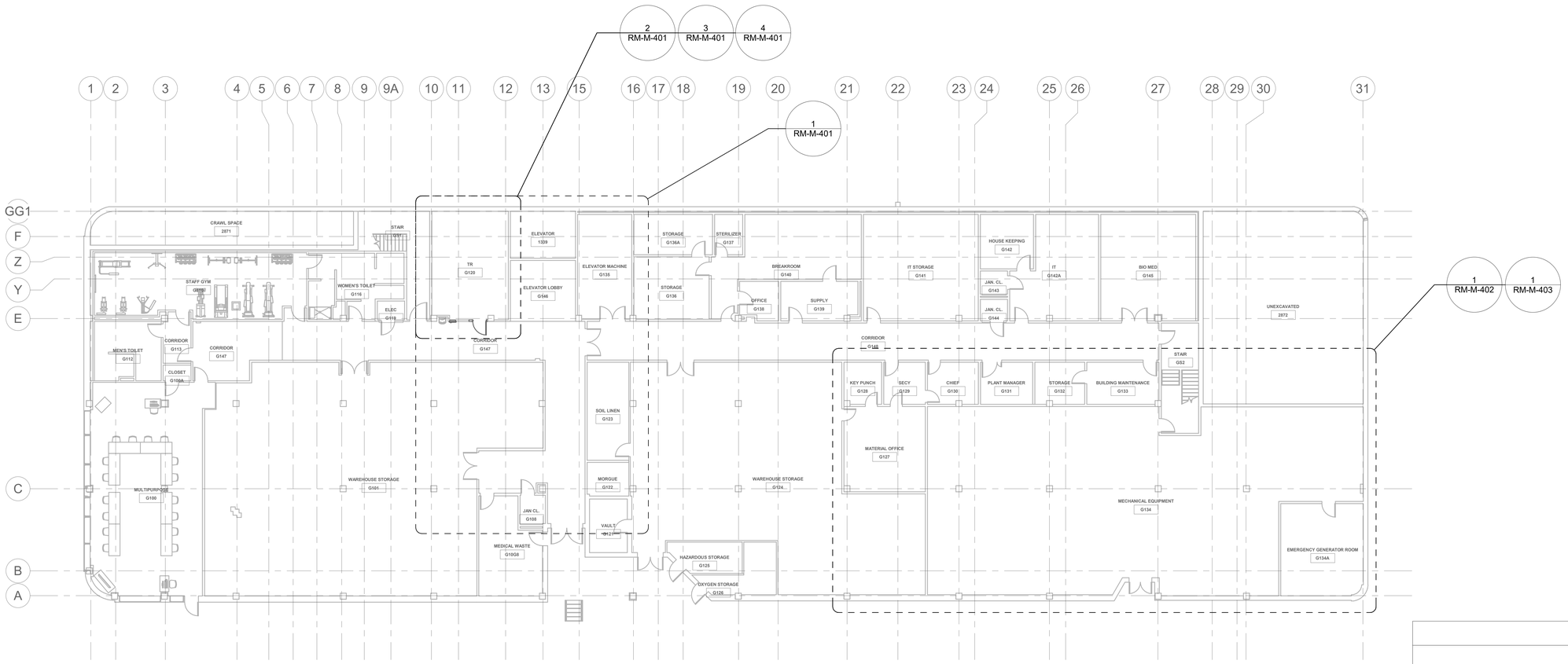
VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - 016 - LEVEL - 00 - DEMOLITION, FLOOR PLANS & RCPS	**Phase** 100% CONSTRUCTION DOCUMENTS
Approved:	FULLY SPRINKLERED

Project Title EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
	Building Number 016
Location VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210	**Drawing Number** 016-M-401
Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_16_ME_SDB.rvt
8/20/2025 8:15:04 AM

VA FORM 08 - 6231



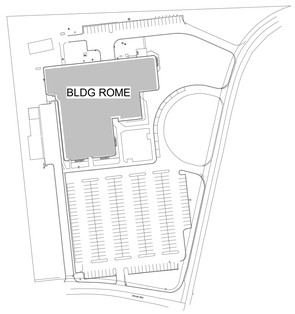
1 LEVEL 00 - OVERALL PLAN

3/32" = 1'-0"

PROJECT NORTH

0' 8' 16' 32'

SITE PLAN



SHOWN AREA

PROJECT NORTH

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/25

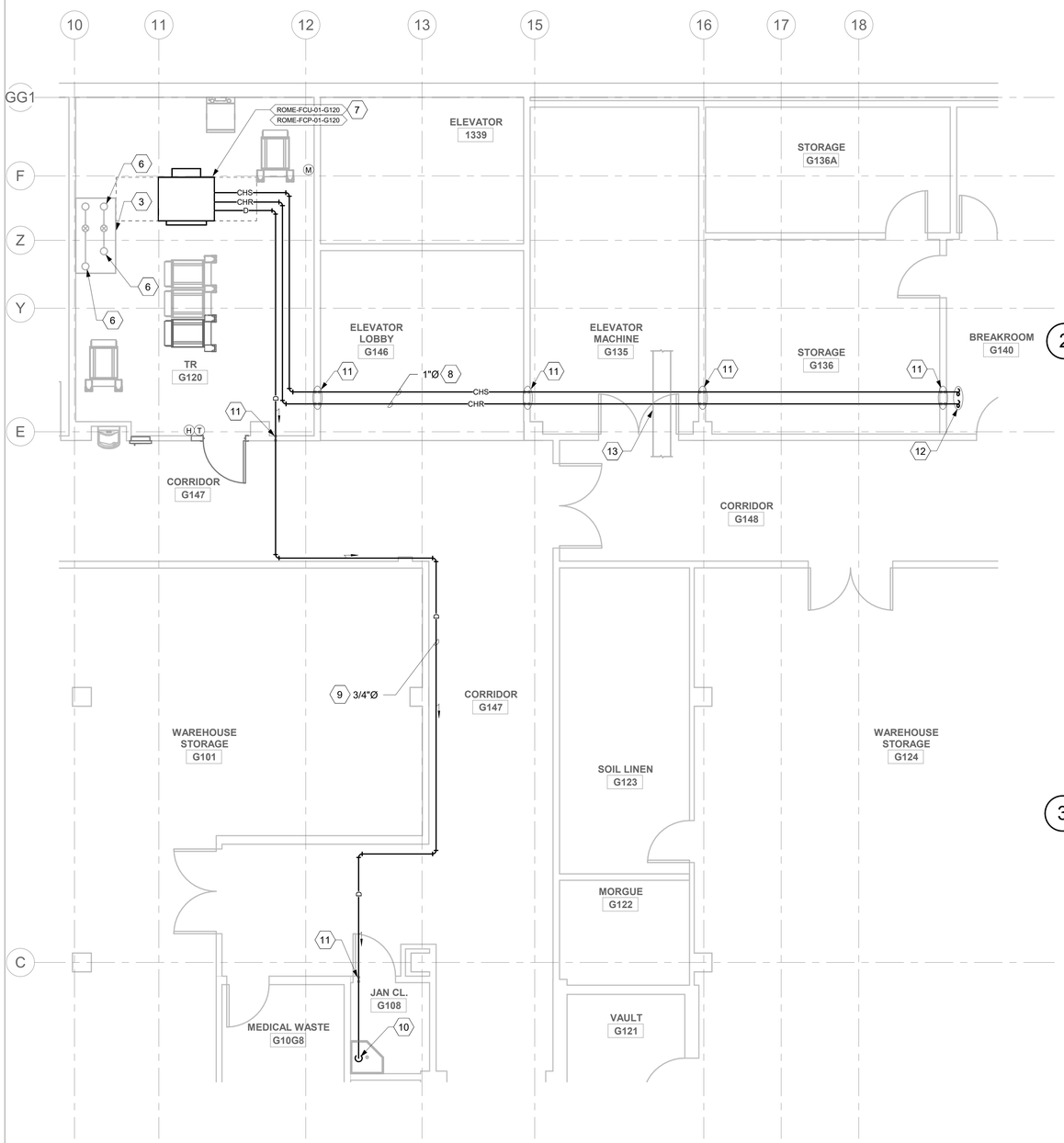
Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

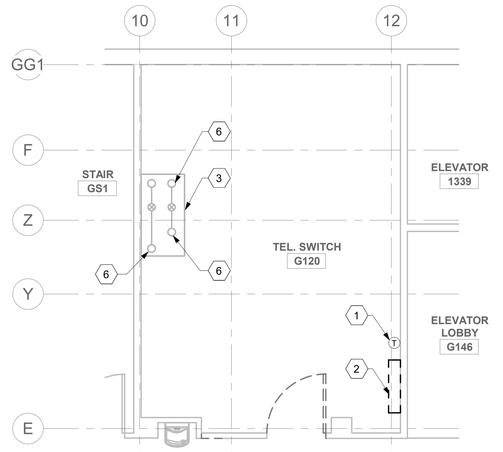
Drawing Title	BUILDING - ROME - LEVEL - 00 - OVERALL PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Location	VA NY SYRACUSE 125 BROOKLEY RD., ROME, NY 13441
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Project Number	528A7-22-700
Building Number	ROME
Drawing Number	RM-M-101

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_ROME_ME_SDB.rvt
9/22/2025 2:55:44 PM

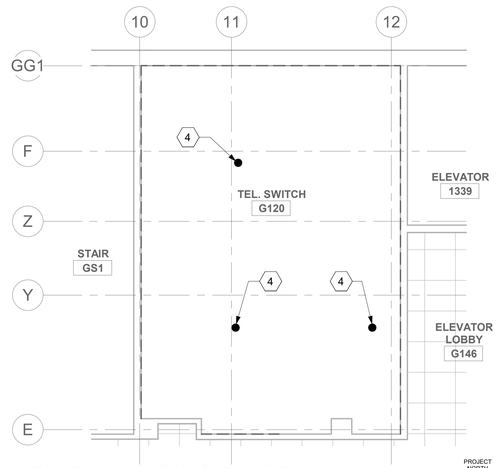
VA FORM 08 - 6231



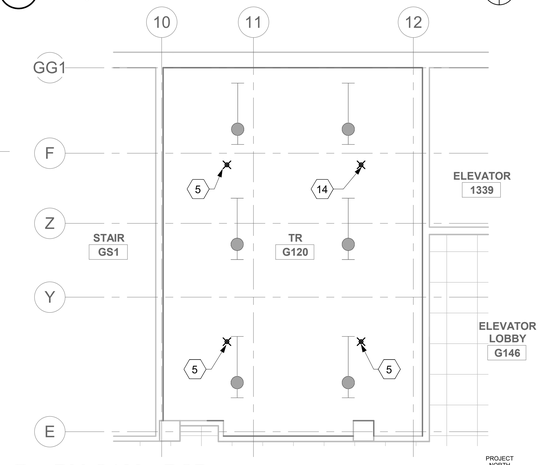
1 RM G120 - FLOOR PLAN
1/4" = 1'-0"



2 RM G120 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



3 RM G120 - DEMOLITION RCP
1/4" = 1'-0"



4 RM G120 - RCP
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. FOR THE PURPOSES OF CLEARNESS AND LEGIBILITY, DRAWINGS ARE DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
2. ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE CURRENT VA GUIDES AND LOCAL FIRE PROTECTION CODES AND ORDINANCES.
3. CONTRACTOR SHALL HAVE NICET III/IV TECHNICIAN DESIGN DRAWINGS OR A LICENSED FIRE PROTECTION ENGINEER STAMP ON ALL SHOP DRAWINGS.
4. COORDINATE EXACT LOCATION OF PIPING, SPRINKLERS, EQUIPMENT AND MATERIALS WITH OTHER TRADES IN ACCORDANCE WITH NFPA 13.
5. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND VA COR PRIOR TO ANY CUTTING OF WALLS AND ROOF.
6. THE CONTRACTOR SHALL PROVIDE FIRE CAULKING AT ALL PIPING PENETRATIONS OF FIRE RATED ASSEMBLIES AS REQUIRED.
7. TELECOM ROOMS SHALL HAVE FM APPROVED, UPRIGHT, STANDARD RESPONSE SPRINKLERS WITH FUSIBLE LINKS. PROVIDE LISTED MECHANICAL GUARDS. ALL EXPOSED FIRE PROTECTION LINES SHALL BE PAINTED RED.
8. TELECOM ROOMS ARE CONSIDERED LIGHT HAZARD FOR SPRINKLER HEAD DENSITY. ANY OTHER HAZARD CLASSIFICATION AND SPRINKLER DENSITY ARE TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF NFPA 13 AND VA FIRE PROTECTION DESIGN GUIDE.
9. DO NOT INSTALL SPRINKLER HEADS OR PIPING ABOVE TELECOMMUNICATION RACKS WHERE FEASIBLE BUT STILL IN ACCORDANCE WITH NFPA 13.

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.
3. ROUTE ALL CONDENSATE PIPING CONCEALED IN WALLS, CHASES OR CEILING SPACES.

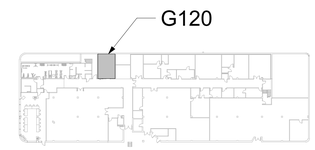
DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK AND DASHED, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

1. DEMOLISH EXISTING WALL MOUNTED THERMOSTAT.
2. DEMOLISH EXISTING DUCTLESS AC UNIT AND ASSOCIATED CONDENSING UNIT. DEMOLISH REFRIGERANT PIPE SERVING DUCTLESS AC UNIT. DEMOLISH CONDENSATE PIPE.
3. EXISTING DRAIN PAN TO REMAIN.
4. DEMOLISH EXISTING QUICK RESPONSE SPRINKLER.
5. ALL NEW SPRINKLER PIPING SHALL MATCH EXISTING PIPE SIZES. INSTALL NEW STANDARD RESPONSE SPRINKLER IN UPRIGHT POSITION.
6. EXISTING STERILIZER STEAM PIPING TO REMAIN. ENSURE STEAM TRAPS ARE ACCESSIBLE FOR MAINTENANCE.
7. FURNISH AND INSTALL NEW DUCTLESS FCU. SEE EQUIPMENT SCHEDULES ON SHEET M-601.
8. FURNISH AND INSTALL NEW HYDRONIC PIPES SERVING FCU. PROVIDE PIPE INSULATION FOR ALL HYDRONIC PIPES LINES PER SPECIFICATION SECTION 23 07 11. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
9. INSTALL NEW CONDENSATE LINE. PROVIDE PIPE SUPPORT PER SPECIFICATION SECTION 23 05 11.
10. CONDENSATE LINE TO BE DISCHARGED TO THE EXISTING MOP SINK. SEE "INDIRECT DRAIN MOP SINK DETAIL" ON SHEET M-502.
11. PROVIDE WALL OPENING AND PIPE SLEEVE. SEE "PIPE THRU WALL (RATED/UNRATED) DETAIL" ON SHEET M-501.
12. FOR CONTINUATION, SEE SHEET RM-M-403.
13. ROUTE PIPING CLOSE TO WALL AND ABOVE EXISTING DUCT.
14. INSTALL NEW STANDARD RESPONSE SPRINKLER IN AN UPRIGHT POSITION. INSTALL NEW BRANCH LINE, TIE-IN TO NEAREST EXISTING MAIN.

KEY PLAN



Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/25

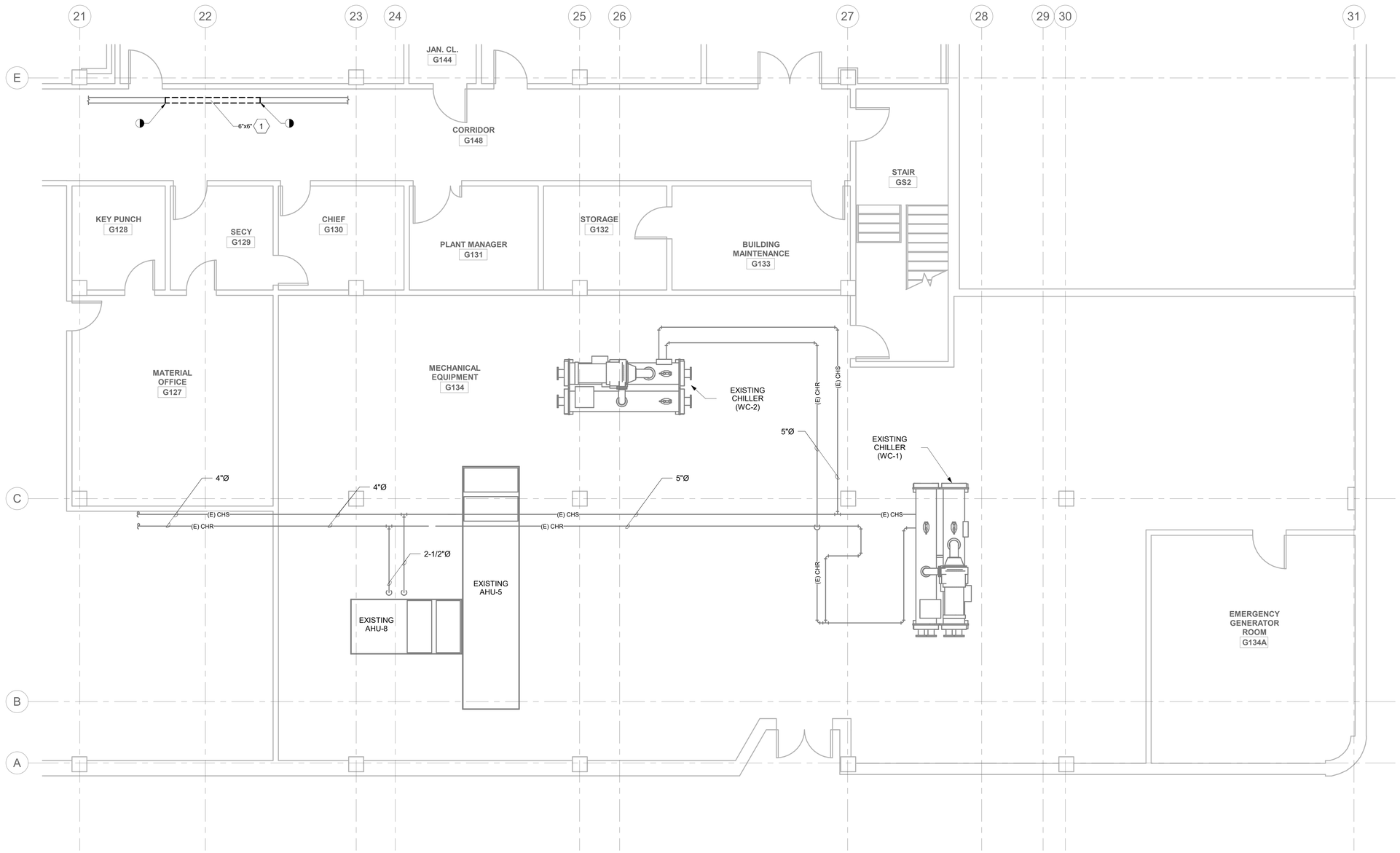
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BUILDING - ROME - LEVEL - 00 - DEMOLITION, FLOOR PLANS & RCPS	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	Project Number: 528A7-22-700
Approved:	FULLY SPRINKLERED	Location: VA NY SYRACUSE, 125 BROOKLEY RD., ROME, NY 13441	Building Number: ROME
		Issue Date: 08/22/2025 / Checked: MGH/JW / Drawn: AP/CY/EA/JJ/MA	Drawing Number: RM-M-401

Autodesk Docs://528A7-22-700 VA Syracuse EHRM Infrastructure Upgrades/VASY_ROME_ME_SDB.rvt
9/22/2025 2:55:46 PM

VA FORM 08 - 6231



1 LEVEL 00 - DEMOLITION MECHANICAL PLAN
1/4" = 1'-0"

PROJECT NORTH

0' 8' 16' 32'

DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK AND DASHED, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

(1) DEMOLISH EXISTING DUCTWORK.

KEY PLAN

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING - ROME - LEVEL - 00 - DEMOLITION MECHANICAL PIPING PLAN

Approved:

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

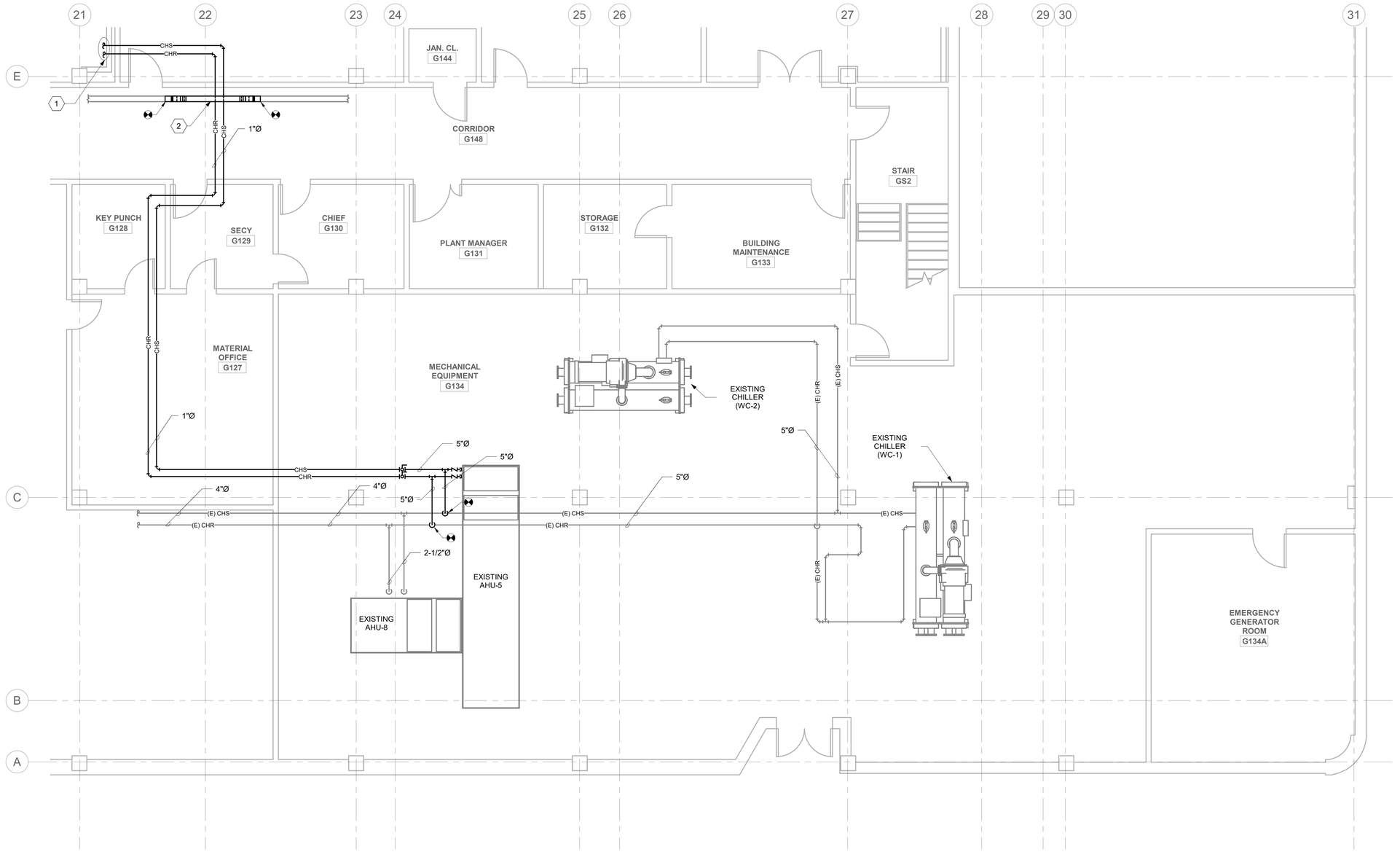
Location
VA NY SYRACUSE
125 BROOKLEY RD., ROME, NY 13441

Issue Date 08/22/2025
Checked MGH/JW
Drawn AP/CY/EA/JJ/MA

Project Number 528A7-22-700
Building Number ROME
Drawing Number RM-M-402

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Mechanical/VASY_
Upgrades/VASY_ROME_ME_SDB.rvt
9/22/2025 2:55:47 PM

VA FORM 08 - 6231



1 LEVEL 00 - MECHANICAL PLAN
1/4" = 1'-0"

PROJECT NORTH

0' 8' 16' 32'

GENERAL NOTES

1. ALL PIPING IS SHOWN OFFSET AND DIAGRAMMATIC FOR CLARITY.
2. NEW WORK SHOWN DARK, EXISTING WORK SHOWN LIGHT.

DEMOLITION GENERAL NOTES

1. WORK TO BE DEMOLISHED SHOWN DARK AND DASHED, EXISTING WORK TO REMAIN SHOWN LIGHT.

KEYNOTES (#)

(1) FOR CONTINUATION, SEE SHEET RM-M-401.

(2) NEW DUCTWORK MODIFIED TO 45 DEGREE CONNECTIONS TO ALLOW FOR CHILLED WATER PIPING TO PASS UNDERNEATH.

KEY PLAN

SHOWN AREA

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED PROFESSIONAL ENGINEER
8/22/25

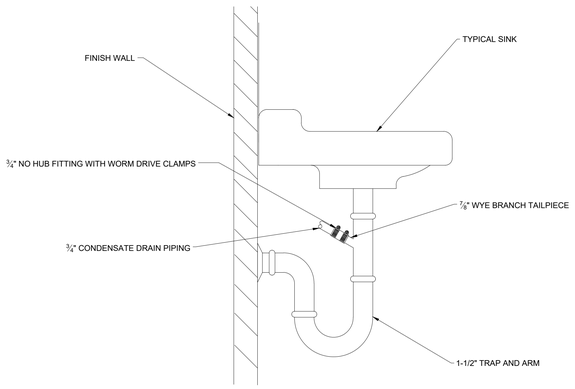
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title BUILDING - ROME - LEVEL - 00 - MECHANICAL PIPING PLAN	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
			Building Number ROME
Approved:	FULLY SPRINKLERED	**Location** VA NY SYRACUSE 125 BROOKLEY RD., ROME, NY 13441	**Drawing Number** RM-M-403
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	

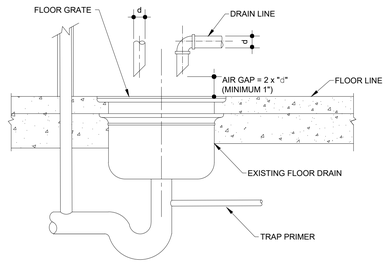
Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_ROME_ME_SDB.rvt
9/22/2025 2:55:48 PM

VA FORM 08 - 6231



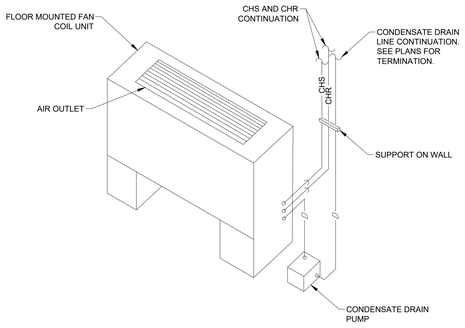
1 SINK TAILPIECE CONNECTION DETAIL

SCALE: NTS



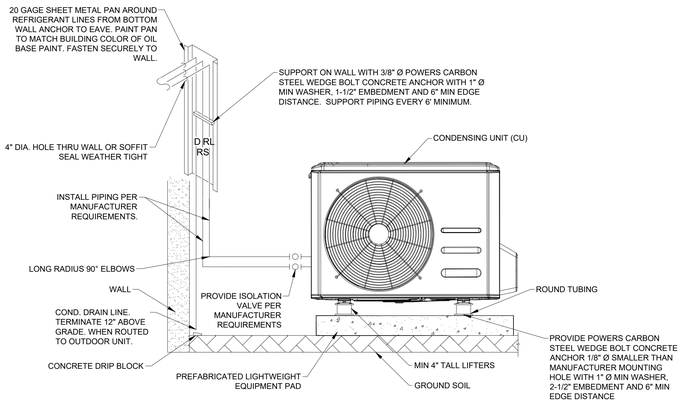
2 INDIRECT DRAIN FLOOR SINK DETAIL

SCALE: NTS



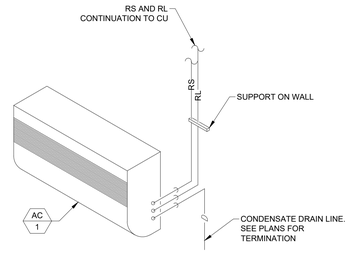
3 FLOOR MOUNTED CHILLED WATER FAN COIL UNIT

SCALE: NTS



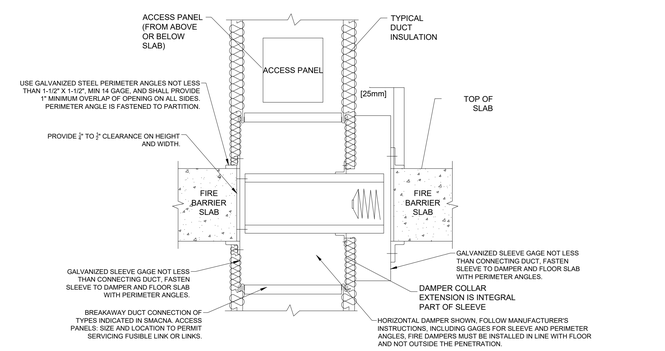
4 CONDENSING UNIT GROUND MOUNT SUPPORT DETAIL

SCALE: NTS



5 DUCTLESS SPLIT SYSTEM DETAIL

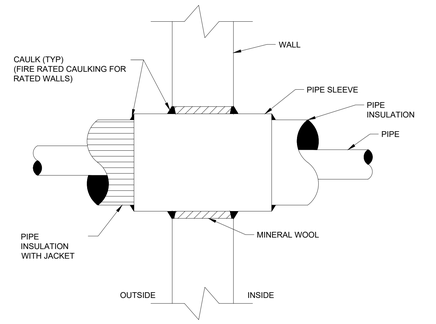
SCALE: NTS



NOTES:
1. ALL DUCTWORK RISERS THAT RUN EXPOSED, SUCH AS THROUGH ATTIC FLOORS AND MECHANICAL ROOM FLOORS SHALL BE PROVIDED WITH 3" (75mm) HIGH CONCRETE CURB AROUND OPENING FOR DUCT.
2. ALL DETAILS SHALL COMPLY WITH FIRE DAMPER MANUFACTURER'S UL MOUNTING AND INSTALLATION REQUIREMENTS.
3. WHERE HVAC AIR DUCT PENETRATES ONLY ONE FLOOR AND PROTECTED WITH A FIRE DAMPER, AN AIR DUCT ENCLOSURE IS NOT REQUIRED.

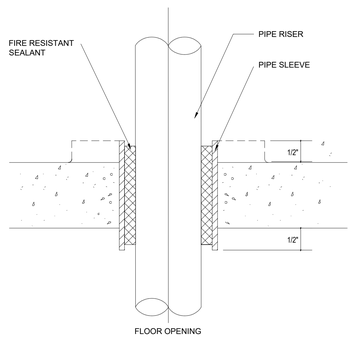
6 FIRE DAMPER AT FLOOR PENETRATION

SCALE: NTS



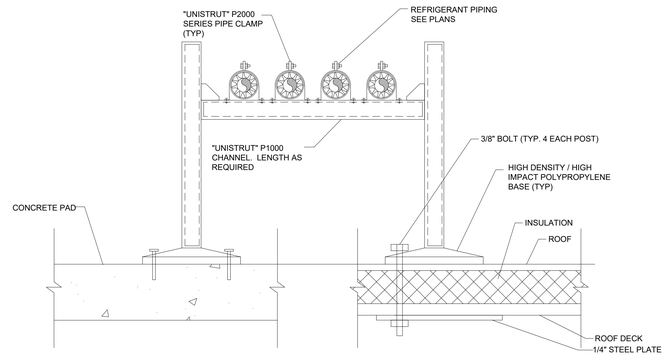
7 PIPE THRU WALL (RATED/UNRATED) DETAIL

SCALE: NTS



8 PIPE THRU FLOOR DETAIL

SCALE: NTS



9 PIPE ROOF MOUNTING DETAIL

SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL DETAILS I

Phase
100% CONSTRUCTION DOCUMENTS

Approved:

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

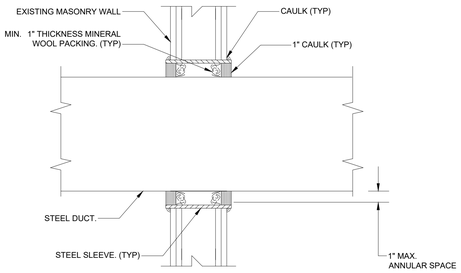
Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

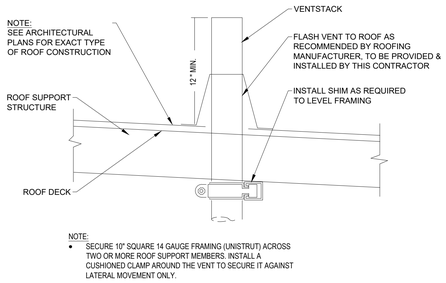
Project Number
528A7-22-700

Building Number
-

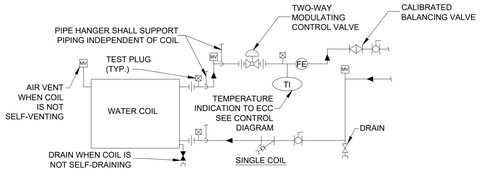
Drawing Number
M-501

VA FORM 08 - 6231



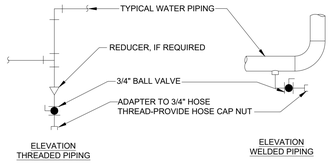


NOTE:
- SECURE 10" SQUARE 14 GAUGE FRAMING (UNISTRUT) ACROSS TWO OR MORE ROOF SUPPORT MEMBERS. INSTALL A CUSHIONED CLAMP AROUND THE VENT TO SECURE IT AGAINST LATERAL MOVEMENT ONLY.



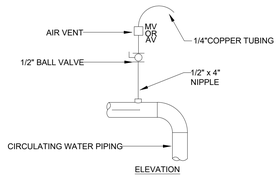
NOTES:
1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE. TYPE "H" FOR 4"Ø PIPE & SMALLER. TYPE "H-P" FOR 5"Ø PIPE & LARGER.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALES, OR EQUIPMENT.
3. THE FLOW ELEMENT MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPING.

10 DUCT THRU WALL DETAIL
SCALE: NTS



TYPICAL CHILLED AND HOT WATER PIPING DRAIN VALVE CONNECTIONS

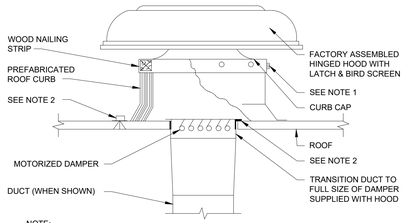
NOTES:
1. DRAIN ALL LOW POINTS AS INDICATED ABOVE.
2. WHERE SCALE POCKETS ARE SHOWN ON PIPE RISER DIAGRAMS AND/OR PLANS LOCATE DRAIN AT BOTTOM OF SCALE POCKET.



TYPICAL MANUAL AIR VENT

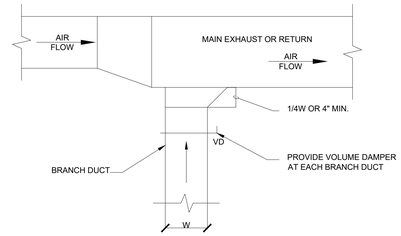
NOTES:
1. VENT ALL HIGH POINTS AS INDICATED ABOVE.
2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO DRAIN.

11 VENT THRU ROOF DETAIL
SCALE: NTS

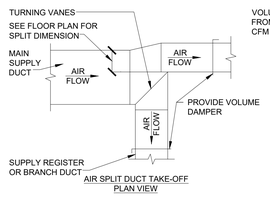


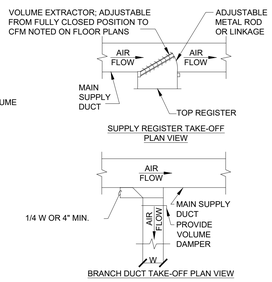
NOTE:
1. SECURE HOOD TO WOOD NAILING STRIP WITH 3/8" CADMIUM PLATED LAG BOLTS NOT OVER 12" ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH EXPANSION BOLTS (CONCRETE ROOF) OR RUST RESISTANT BOLTS (MENTAL DECK & BAR JOIST ROOF).

12 WATER COILS - PIPING CONNECTIONS
SCALE: NTS



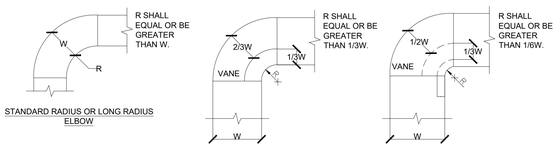
13 TYPICAL DRAIN AND AIR VENTS
SCALE: NTS





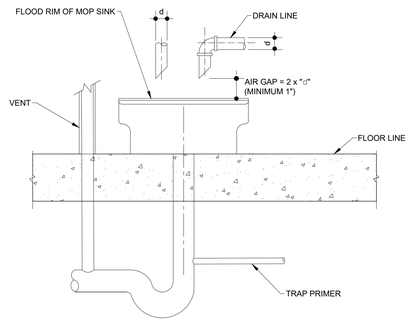
DESIGNER'S NOTES:
1. THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP UP TO 25% OF THE MAIN DUCT CFM. THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES AND MAY BE USED AT ANYTIME.
2. SHOW ALL VOLUME DAMPERS ON FLOOR PLANS.

14 LOW-SILHOUETTE EXHAUST OR INTAKE HOOD
SCALE: NTS



NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS 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.

15 EXHAUST OR RETURN BRANCH DUCTWORK
SCALE: NTS



16 SUPPLY DUCTWORK TAKEOFFS
SCALE: NTS

17 DUCTWORK RADIUS ELBOWS
SCALE: NTS

18 INDIRECT DRAIN MOP SINK DETAIL
SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

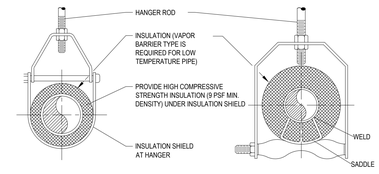
Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title MECHANICAL DETAILS II	**Phase** 100% CONSTRUCTION DOCUMENTS
Approved:	

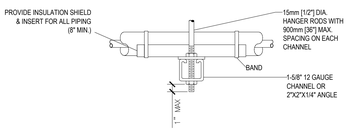
Project Title EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA		**Project Number** 528A7-22-700
		Building Number -
Location VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210		**Drawing Number** M-502
Issue Date 08/22/2025	**Checked** MGH/JW	**Drawn** AP/CY/EA/JJ/MA

VA FORM 08 - 6231



ADJUSTABLE CLEVIS HANGER TYPE 1 - SEE SPECIFICATIONS

ADJUSTABLE CLEVIS HANGER TYPE 43 - SEE SPECIFICATIONS

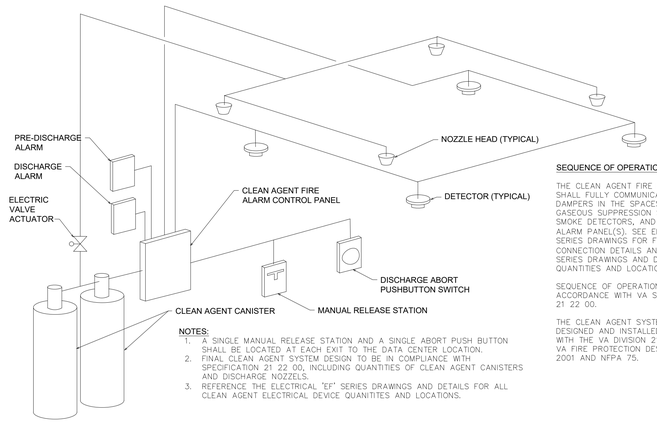


SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING																		
NOM. SIZE	IN	THRU 1/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE	FT	7	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING	FT	5	6	7	8	8	9	10	12	13	14	16	- -	- -	- -	- -	- -	- -	- -
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																			

19 PIPE HANGERS

SCALE: NTS



NOTES:
1. A SINGLE MANUAL RELEASE STATION AND A SINGLE ABORT PUSH BUTTON SHALL BE LOCATED AT EACH EXIT TO THE DATA CENTER LOCATION.
2. FINAL CLEAN AGENT SYSTEM DESIGN TO BE IN COMPLIANCE WITH SPECIFICATION 21 22 00, INCLUDING QUANTITIES OF CLEAN AGENT CANISTERS AND DISCHARGE NOZZELS.
3. REFERENCE THE ELECTRICAL "EF" SERIES DRAWINGS AND DETAILS FOR ALL CLEAN AGENT ELECTRICAL DEVICE QUANITITES AND LOCATIONS.

SEQUENCE OF OPERATION

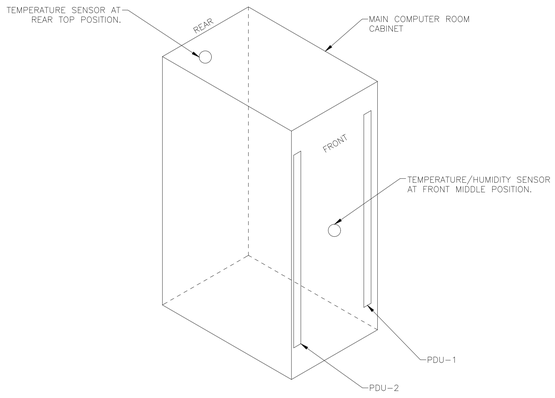
THE CLEAN AGENT FIRE PROTECTION PANEL SHALL FULLY COMMUNICATE WITH SMOKE DAMPERS IN THE SPACES SERVED BY THE GASEOUS SUPPRESSION SYSTEM, THE SPACE SMOKE DETECTORS, AND THE BUILDING FIRE ALARM PANEL(S). SEE ELECTRICAL "EP" SERIES DRAWINGS FOR FIRE ALARM PANEL CONNECTION DETAILS AND ELECTRICAL "EF" SERIES DRAWINGS AND DETAILS FOR DEVICE QUANTITIES AND LOCATIONS.

SEQUENCE OF OPERATION SHALL BE IN ACCORDANCE WITH VA SPECIFICATION 21 22 00.

THE CLEAN AGENT SYSTEM SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH THE VA DIVISION 21 SPECIFICATIONS, VA FIRE PROTECTION DESIGN MANUAL, NFPA 2001 AND NFPA 75.

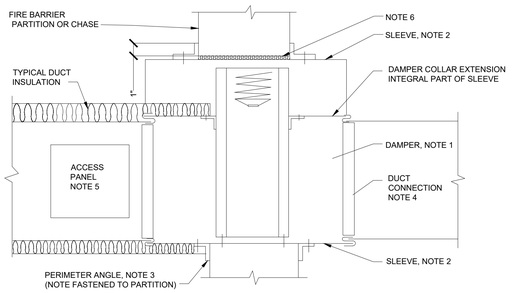
22 CLEAN AGENT SYSTEM DETAIL

SCALE: NTS



25 DATA CENTER MONITERED RACK SENSOR LOCATIONS

SCALE: NTS

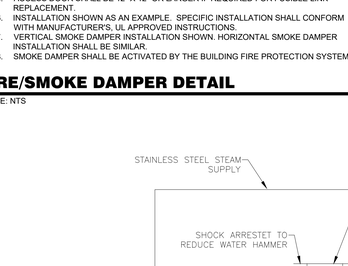


NOTES:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1 1/2"x1 1/2", 14 GAGE, TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
5. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH. FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.

20 SECTION THRU FIRE DAMPER INSTALLATION

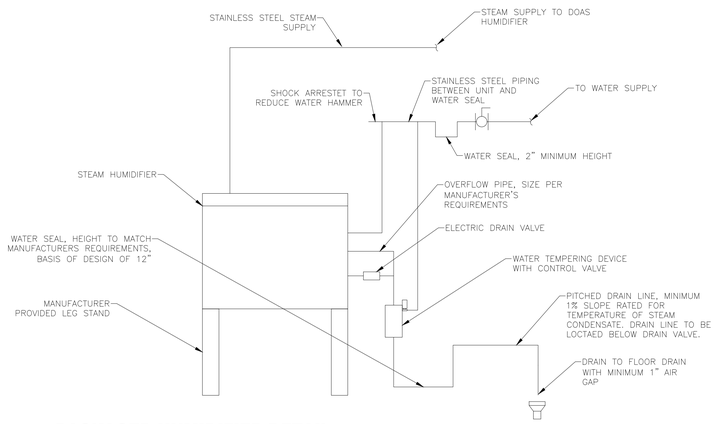
SCALE: NTS



NOTES:
1. INSTALL PER MANUFACTURES RECOMMENDATIONS.
2. DAMPER BLADES SHALL BE OPPOSED BLADE TYPE (SEE UL 555S LEAKAGE CLASS I OR II) DAMPERS SHALL BEAR UL LABEL AND BE MANUFACTURED FOR USE IN SMOKE CONTROL.
3. PROVIDE SPRING BLADE EDGE SEALS SHALL BE SILICONE RUBBER DESIGNED TO WITHSTAND 450 °F. JAMB SEALS SHALL BE SS FLEXIBLE COMPRESSION METAL.
4. WHEN DUCTWORK IS INSULATED OR LINED, PROVIDE INSULATED ACCESS DOOR.
5. ACCESS DOOR SHALL BE 12" X 12" OR LARGER IF REQUIRED FOR FUSIBLE LINK REPLACEMENT.
6. INSTALLATION SHOWN AS AN EXAMPLE. SPECIFIC INSTALLATION SHALL CONFORM WITH MANUFACTURER'S, UL APPROVED INSTRUCTIONS.
7. VERTICAL SMOKE DAMPER INSTALLATION SHOWN. HORIZONTAL SMOKE DAMPER INSTALLATION SHALL BE SIMILAR.
8. SMOKE DAMPER SHALL BE ACTIVATED BY THE BUILDING FIRE PROTECTION SYSTEM.

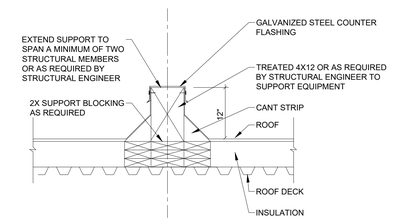
23 FIRE/SMOKE DAMPER DETAIL

SCALE: NTS



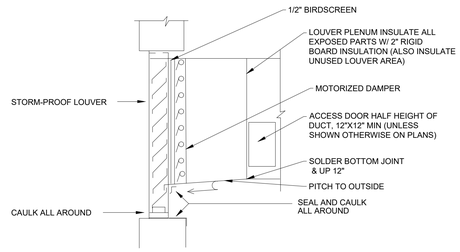
26 PACKAGED HUMIDIFIER DETAIL

SCALE: NTS



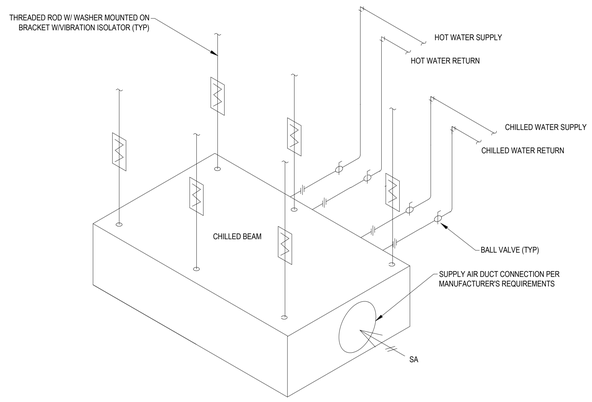
22 ROOF EQUIPMENT SUPPORT DETAIL

SCALE: NTS



24 LOUVER CONNECTION DETAIL

SCALE: NTS



27 CHILLED BEAM DETAIL

SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL DETAILS III

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210

Project Number: 528A7-22-700

Building Number: -

Drawing Number: M-503

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

VA FORM 08 - 6231

TWO-PIPE FAN COIL UNIT SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION	TYPE	FAN AIR FLOW (CFM)	COOLING REQUIREMENTS								FILTER	ELECTRICAL DATA								DIMENSIONS			WEIGHT (LBS)	REMARKS
						MIN SENSIBLE CAPACITY (BTUH)	MIN TOTAL CAPACITY (BTUH)	EAT		FLOW (GPM)	EWT (°F)	LWT (°F)	WPD (FT)	MERV RATING	POWER (HP)	PHASE	VOLT	HZ	SPEED CONTROL	MOP (A)	MCA (A)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
								DB (°F)	WB (°F)																		
001-FCU-01-CG06A	TRANE	FCBJ100	CG06A	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-02-C106A	TRANE	FCBJ100	C106A	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-04-C203	TRANE	FCBJ100	C203	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-05-C303	TRANE	FCBJ100	C303	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-06-C403A	TRANE	FCBJ100	C403A	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-07-C507	TRANE	FCBJ100	C507	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-08-C607	TRANE	FCBJ100	C607	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-09-DC6	TRANE	FCBJ100	DC6	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-10-DC7	TRANE	FCBJ100	DC7	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-11-C703	TRANE	FCBJ100	C703	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-12-C808	TRANE	FCBJ100	C808	FLOOR	900	18,500	21,000	80	67	3.5	48	60	3.54	8	1/4	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
001-FCU-13-C907	TRANE	FCBJ100	C907	FLOOR	1200	25,700	30,000	80	67	3.5	48	65.4	4.30	8	1/2	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
002-FCU-01-BT03	TRANE	FCBJ100	BT-03	FLOOR	900	18,500	21,000	80	67	3.5	48	60	3.54	8	1/4	1	115	60	3-STAGE	15	6.07	75.25	10	28.5	218	1,2
ROME-FCU-01-G120	TRANE	BCHE054	G120	CEILING	1700	36,910	41,000	80	67	4.9	48	65	1.67	8	1	1	115	60	3-STAGE	25	16.63	35.8	46	18	188	1,2

REMARKS:
1. PROVIDE 2-WAY MODULATING CONTROL VALVE.
2. PROVIDE VIBRATION ISOLATION PER 23 05 41.

HEAT PUMP UNIT SCHEDULE

INDOOR UNIT (WALL MOUNTED)													OUTDOOR UNIT											REMARKS
EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ROOM	STYLE	OPERATING WEIGHT (LBS)	AIRFLOW RANGE (CFM)	COOLING CAPACITY		HEATING CAPACITY	ELECTRICAL			EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	COOLING CAPACITY	HEATING CAPACITY	OPERATING WEIGHT (LBS)	EER	AMBIENT AIR OPERATING RANGE (°F)	ELECTRICAL					
							TOTAL (BTU/H)	SENSIBLE (BTU/H)	SENSIBLE (BTU/H)	V	PH	HZ									V	PH	HZ	MCA	MOP	
016-AC-01-16-12	LG	LAN240HYV3	16-12	WALL MOUNTED	37.7	389-811	22,540	17,050	12,958	208	1	60	016-CU-01-16-12	LG	LAU240HYV3	21,995	25,995	135.4	13	-4-118	208V	1PH	60	19	30	1,2,3,4,5,6,7,8,9,10

REMARKS:
1. BASIS OF DESIGN -OTHER EQUIVALENT UNITS THAT MEET SPECIFICATIONS AND COMPLY WITH THE REQUIREMENTS OF THE BUY AMERICAN ACT MAY BE SUBMITTED FOR REVIEW.
2. PROVIDE WITH BACNET CONTROL INTERFACE. SEE SPECIFICATIONS AND CONTROL DIAGRAM FOR ADDITIONAL INFORMATION. PROVIDE WITH TEMPERATURE AND HUMIDITY SENSOR. FURNISH WITH AN ADAPTER FOR INTEGRATION WITH VA CAMPUS BMS VIA BACNET. BACNET INTERFACE SHALL ALLOW READ/WRITE ACCESS TO THE FOLLOWING POINTS: ON/OFF, SETPOINT, ROOM TEMPERATURE, MODE, FAN SPEED, LOUVER POSITION AND ERROR CODE.
3. PROVIDE LOW AMBIENT TEMPERATURE CONTROLS & CRANK CASE HEATER.
4. PROVIDE LIGHTWEIGHT PRECAST EQUIPMENT PAD FOR GROUND MOUNTED CONDENSING UNIT.
5. PROVIDE FACTORY WALL MOUNTING HARDWARE FOR INDOOR UNIT.
6. PROVIDE SLIDE-IN AIR FILTER.
7. PROVIDE CONDENSATE DRAIN PUMP.
8. INDOOR UNIT POWERED BY OUTDOOR UNIT.
9. CONTRACTOR SHALL INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ASHRAE 15-2022 SECTION 9.13.1 THROUGH 9.13.7. THIS INCLUDES PIPE STRENGTH TESTING VIA APPROVED TEST GASES, VISUAL INSPECTIONS AND LEAKAGE TESTING. REFERENCE TABLE 9-13 FOR TEST PARAMETERS. CONTRACTOR DECLARATION SHALL BE PROVIDED TO VA FOR SYSTEMS INCLUDING 55 LBS OF REFRIGERANT OR MORE IN ACCORDANCE WITH 9.13.7.
10. DUE TO THE EPA AMERICAN INNOVATION AND MANUFACTURING (AIM) ACT, R410A SYSTEMS ARE BEING PHASED OUT. R410A SYSTEMS WILL BE REPLACED BY R-32 AND R-454B SYSTEMS. AT THE TIME OF THE DATE ISSUED ON THE DRAWINGS, THERE ARE MINIMAL R-32 AND R-454B SELECTIONS AVAILABLE FROM MANUFACTURES. AS THE A/E IS UNABLE TO SCHEDULE SYSTEMS WITH THE NEW REFRIGERANTS IN THE APPROPRIATE SIZES AND CAPACITIES, THE SYSTEMS SHOWN ON THIS SCHEDULE ARE R410A SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FUNCTIONING SYSTEM THAT MEETS THE SCHEDULED CAPACITIES SHOWN AND THE EPA REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION. THIS MAY REQUIRE THE CONTRACTOR TO PURCHASE R-32 OR R-454B SYSTEMS RATHER THAN THE SCHEDULED R410A SYSTEMS. THE CONTRACTOR IS REPSONIBLE FOR ALL REQUIRED COORDINATION AND ADJUSTMENTS REQUIRED TO ACCOMMODATE THE EPA COMPLIANT SYSTEMS INCLUDING, BUT NOT LIMITED TO, ELECTRICAL LOAD CHANGES, REFRIGERANT PIPE SIZE CHANGES, INCREASED VENTILATION REQUIREMENTS, AND SPACE COORDINATION.

CRAC UNIT SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION	ASSOCIATED CONDENSING UNIT	AIRFLOW RATE (CFM)	DX PERFORMANCE						CHILLED WATER PERFORMANCE								CHILLED WATER VALVE	ELECTRICAL					DISCONNECT FURNISHED BY	FILTERS	WEIGHT (LBS)	REMARKS
						TOTAL (BTU/H)	SENSIBLE (BTU/H)	SUPPLY AIR TEMP		RETURN AIR TEMP		TOTAL (BTU/H)	SENSIBLE (BTU/H)	LEAVING AIR TEMP		RETURN AIR TEMP		EWT (°F)	LWT (°F)	P.D. (FT H20)		VOLT	PH	HZ	FLA	OPD				
								°F DB	°F WB	°F DB	°F WB			°F DB	°F WB	°F DB	°F WB													
001-CRAC-01-DC2	LIEBERT	DS105	DATA CENTER	001-CU-01-ROOF	12,600	392,000	358,000	72	63.4	95	70.7	300,000	300,000	72	63.4	95	70.7	48	72.1	3.7	3-WAY	208	3	60	171.5	225	EC	MERV 8	3,750	1,2,3,4,5,6,7,8
001-CRAC-02-DC2	LIEBERT	DS105	DATA CENTER	001-CU-02-ROOF	12,600	392,000	358,000	72	63.4	95	70.7	300,000	300,000	72	63.4	95	70.7	48	72.1	3.7	2-WAY	208	3	60	171.5	225	EC	MERV 8	3,750	1,2,3,4,5,6,7,8

REMARKS:
1. PROVIDE WITH SINGLE POINT POWER CONNECTION.
2. DOWNFLOW OVERHEAD DUCTED RETURN UNIT WITH ECM MOTORS.
3. PROVIDE WITH A RUNTIME COUNTER THAT ALARMS THROUGH THE BMS AT HUMIDIFICATION BULB REPLACEMENT INTERVALS.
4. UNITS ARE FULLY REDUNDANT AND SHALL BE INTERLOCKED THROUGH A STANDALONE CONTROLLER.
5. PROVIDE WITH MANUFACTURER'S INTEGRAL HUMIDIFIER OPTION WITH A MINIMUM OF 22 LB/HR HUMIDIFICATION.
6. PROVIDE WITH INTEGRAL CONDENSATE PUMP.
7. CONTRACTOR SHALL INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ASHRAE 15-2022 SECTION 9.13.1 THROUGH 9.13.7. THIS INCLUDES PIPE STRENGTH TESTING VIA APPROVED TEST GASES, VISUAL INSPECTIONS AND LEAKAGE TESTING. REFERENCE TABLE 9-13 FOR TEST PARAMETERS. CONTRACTOR DECLARATION SHALL BE PROVIDED TO VA FOR SYSTEMS INCLUDING 55 LBS OF REFRIGERANT OR MORE IN ACCORDANCE WITH 9.13.7.
8. DUE TO THE EPA AMERICAN INNOVATION AND MANUFACTURING (AIM) ACT, R410A SYSTEMS ARE BEING PHASED OUT. R410A SYSTEMS WILL BE REPLACED BY R-32 AND R-454B SYSTEMS. AT THE TIME OF THE DATE ISSUED ON THE DRAWINGS, THERE ARE MINIMAL R-32 AND R-454B SELECTIONS AVAILABLE FROM MANUFACTURES. AS THE A/E IS UNABLE TO SCHEDULE SYSTEMS WITH THE NEW REFRIGERANTS IN THE APPROPRIATE SIZES AND CAPACITIES, THE SYSTEMS SHOWN ON THIS SCHEDULE ARE R410A SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FUNCTIONING SYSTEM THAT MEETS THE SCHEDULED CAPACITIES SHOWN AND THE EPA REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION. THIS MAY REQUIRE THE CONTRACTOR TO PURCHASE R-32 OR R-454B SYSTEMS RATHER THAN THE SCHEDULED R410A SYSTEMS. THE CONTRACTOR IS REPSONIBLE FOR ALL REQUIRED COORDINATION AND ADJUSTMENTS REQUIRED TO ACCOMMODATE THE EPA COMPLIANT SYSTEMS INCLUDING, BUT NOT LIMITED TO, ELECTRICAL LOAD CHANGES, REFRIGERANT PIPE SIZE CHANGES, INCREASED VENTILATION REQUIREMENTS, AND SPACE COORDINATION.

CRAC AIR-COOLED CONDENSING UNIT

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	MODEL	COOLING CAPACITY		ELECTRICAL					WEIGHT (LBS)	REMARKS
			AIRFLOW (CFM)	AMBIENT DESIGN (°F DB)	V	PH	HZ	FLA	OPD		
001-CU-01-ROOF	LIEBERT	MCM160E8	22,000	89.1	208	3	60	11.4	15	766	1
001-CU-02-ROOF	LIEBERT	MCM160E8	22,000	89.1	208	3	60	11.4	15	766	1

REMARKS:
1. PROVIDE WITH SINGLE POINT POWER CONNECTION.

GRILLE AND DIFFUSER SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	MODEL	AIR PATTERN	COLOR	REMARKS
EG	TITUS	50F	N/A	COORDINATE W/ ARCHITECTURAL	1,2,3
RG	TITUS	350R	N/A	COORDINATE W/ ARCHITECTURAL	1,2,3
SG	TITUS	R300F	CIRCULAR	COORDINATE W/ ARCHITECTURAL	-

REMARKS:
1. PROVIDE HARDWARE AND LAY-IN PAN AS NEEDED.
2. PROVIDE BALANCING DAMPER IN BRANCH DUCT SERVING AIR OUTLET AT TAKEOFF FROM TRUNK DUCT. (ADDITIONAL DAMPERS FOR SYSTEM BALANCING ARE SHOWN ON DRAWINGS)
3. PROVIDE SQUARE TO ROUND ADAPTER AS REQUIRED

GRAVITY VENTILATOR SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION	TYPE	MAX PRESSURE DROP (IN W.C.)	MAX HOOD INTAKE/EXHAUST VELOCITY (FPM)	MAX AIRFLOW (CFM)	THROAT DIMENSIONS		OVERALL DIMENSIONS			REMARKS
								WIDTH (IN)	LENGTH (IN)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	
001-GV-01-DC ROOF	GREENHECK	FGR	DATA CENTER	EXHAUST	0.1	620	950	14	18	28	28	39	1,2
001-GV-02-DC ROOF	GREENHECK	FGI	DATA CENTER	INTAKE	-	-	-	-	-	-	-	-	1,2,3
001-GV-03-DC ROOF	GREENHECK	FGR	DATA CENTER	EXHAUST	-	-	-	-	-	-	-	-	1,2,3

REMARKS:
1. INSTALL ROOF HOODS HINGED TO ALLOW FOR MAINTENANCE TO BLAST DAMPERS.
2. PROVIDE WITH MANUFACTURERS ROOF CURB, 24" MINIMUM HEIGHT.
3. GRAVITY VENTILATOR SIZE TO BE DETERMINED BY DELEGATED DESIGN CONTRACTOR TO ACCOMMODATE PRESSURE RELIEF DAMPERS.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES I

Phase: 100% CONSTRUCTION DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number: 528A7-22-700

Building Number: -

Approved:

Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210

Drawing Number: M-601

Issue Date	Checked	Drawn
08/22/2025	MGH/JW	AP/CY/EA/JJ/MA

VA FORM 08 - 6231

DOAS SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION	SUPPLY FAN			OUTDOOR AIR				EXHAUST FAN			CHILLED WATER COIL	HOT WATER COIL	HEAT EXCHANGER								DIMENSIONAL DATA			FILTERS	WEIGHT (LBS)	REMARKS
				POWER (HP)	AIRFLOW RATE (CFM)	ESP (IN W.C.)	COOLING		HEATING		POWER (HP)	AIRFLOW RATE (CFM)	ESP (IN W.C.)				V	PH	HZ	MCA	MOP	STARTER FURNISHED BY	DISCONNECT FURNISHED BY	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)			
							DB (°F)	WB (°F)	DB (°F)	WB (°F)																			
001-DOAS-01-DC9	XETEX	CUSTOM	DC9	1	950	1.5	89.2	73.2	-1.2	-2	1	950	1.5	001-DCC-01	001-DHC-01	001-DHX-01	208	3	60	13.5	19.5	EC	EC	120	40	56	MERV 8	516	1,2,3,4

REMARKS:
1. PROVIDE WITH A SINGLE POINT POWER CONNECTION.
2. CONTRACTOR TO LEVEL UNIT ON FABRICATED FLOOR.
3. PROVIDE DOAS WITH CORE HEAT EXCHANGER.
4. PROVIDE DOAS WITH SINGLE SIDE ACCESS.
5. PROVIDE WITH INTEGRAL HUMIDIFICATION DISPERSION SYSTEM. DISPERSION SYSTEM CAPABLE OF 25 LB/HR HUMIDIFICATION AND DIRECT STEAM CONNECTION FROM HUMIDIFIER.

DOAS HOT WATER HEATING COIL SCHEDULE

EQUIPMENT TAG	FACE VELOCITY (FT/S)	COIL ROWS	FLOW (GPM)	HEAD LOSS (FT H2O)	AIR PRESSURE DROP OVER COIL (IN W.C.)	HEATING PERFORMANCE (MBH)	AIR		FLUID	
							ENTERING DB/WB (°F)	LEAVING DB/WB(°F)	ENTERING (°F)	LEAVING (°F)
001-DHC-01	475	1	2.1	1.6	0.07	20.9	44.9	65.2	160	140

DOAS CHILLED WATER COOLING COIL SCHEDULE

EQUIPMENT TAG	FACE VELOCITY (FT/S)	COIL ROWS	FLOW (GPM)	HEAD LOSS (FT H2O)	AIR PRESSURE DROP OVER COIL (IN W.C.)	TOTAL COOLING PERFORMANCE (MBH)	SENSIBLE COOLING PERFORMANCE (MBH)	AIR		FLUID	
								ENTERING DB/WB (°F)	LEAVING DB/WB(°F)	ENTERING (°F)	LEAVING (°F)
001-DCC-01	475	12	9.4	17.3	0.88	46.9	28.9	80.2/68.1	52/52	48	58

DOAS HEAT EXCHANGER SCHEDULE

ASSOCIATED EQUIPMENT	WINTER TEMPERATURES			SUMMER TEMPERATURES			SUPPLY AIR PRESSURE DROP (IN WC)	EXHUAST AIR PRESSURE DROP (IN WC)	ENERGY RECOVERY EFFECTIVESNESS			
	SUPPLY		EXHAUST	SUPPLY		EXHAUST			WINTER		SUMMER	
	ENTERING DB/WB (°F)	LEAVING DB/WB (°F)	ENTERING DB/WB (°F)	ENTERING DB/WB (°F)	LEAVING DB/WB (°F)	ENTERING DB/WB (°F)			SENSIBLE (%)	TOTAL (%)	SENSIBLE (%)	TOTAL (%)
001-DHX-01	1.2/0.0	44.9/39.1	70/58	89.2/73.2	80.2/68.1	75/62.5	0.21	0.41	63.5	57.6	63.4	50.5

CHILLED BEAM SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN	MODEL	LOCATION	PRESSURE DROP (INCH OF WC)	PRIMARY AIR (CFM)	COOLING COIL								HEATING COIL							MAX ALLOWABLE NC SOUND	REMARKS
						WATER FLOW RATE (GPM)	EWT °F	LWT °F	COIL EAT DB °F	COIL EAT WB °F	LAT DB °F	FLUID PD (FT. H2O)	SENSIBLE COOLING (BTU/H)	VALVE TYPE	WATER FLOW RATE (GPM)	EWT °F	LWT (°F)	COIL EAT DB °F (ROOM RETURN)	LAT DB °F	FLUID PD (FT H2O)	TOTAL SENSIBLE (BTU/H)	VALVE TYPE	
001-CB-01-DC1	PRICE	ACBL24 2W	DC1	0.66	200	1	58	70.1	75	62.5	64.1	4.3	6,085	3-WAY	0.5	160	96.3	70	84.1	0.5	13580	3-WAY	28	1,2
001-CB-02-DC1	PRICE	ACBL24 2W	DC1	0.66	200	1	58	70.1	75	62.5	64.1	4.3	6,085	2-WAY	0.5	160	96.3	70	84.1	0.5	13580	2-WAY	28	1
001-CB-03-DC1	PRICE	ACBL24 2W	DC1	0.66	200	1	58	70.1	75	62.5	64.1	4.3	6,085	2-WAY	0.5	160	96.3	70	84.1	0.5	13580	2-WAY	28	1,2
001-CB-04-DC4	PRICE	ACBL24 2W	DC4	0.51	125	0.5	58	69.7	75	62.5	64.1	0.8	2,935	2-WAY	0.5	160	116	70	87.5	0.3	9615	2-WAY	25	1
001-CB-05-DC3	PRICE	ACBL24 2W	DC3	0.51	125	0.5	58	69.7	75	62.5	64.1	0.8	2,935	2-WAY	0.5	160	116	70	87.5	0.3	9615	2-WAY	25	1

REMARKS:
1. PROVIDE WITH MANUFACTURER RECOMMENDED VOLUME FLOW REGULATOR.
2. PROVIDE SUPPLY DUCTWORK WITH DAMPER AND ACTUATOR WITH TIGHT SHUTOFF CAPABILITY.

PRESSURE RELIEF DAMPER SCHEDULE

EQUIPMENT TAG	BOD MANUFACTUER	BOD MODEL	LOCATION	TYPE	MOUNTING ORIENTATION	INSTALLATION ARRANGEMENT	DESIGN PRESSURE (PA)	FREE AREA %	THROAT DIMENSIONS		OVERALL DIMENSIONS (IN)			REMARKS
									WIDTH (IN)	LENGTH (IN)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	
001-PR-01-DC ROOF	MAT	BD-200-HD	BUILDING 001	ONE-WAY	HORIZONTAL	DUCTED	100	-	12	12	12.6	12.6	4.5	1,2,3
001-PR-02-DC ROOF	MAT	BD-200-HD	BUILDING 001	ONE-WAY	HORIZONTAL	DUCTED	100	-	12	12	12.6	12.6	4.5	1,3

REMARKS:
1. FINAL VENT FREE AREA TO BE DETERMINED BY DELEGATED GASEOUS SUPRESSION DESIGN. FINAL BLAST CONSIDERATIONS MADE FROM 3RD PARTY BLAST REVIEWER AFTER FINAL SIZE DETERMINATION.
2. IF VENT IS TWO WAY, PR-02 MAY BE UNECESSARY. GASEOUS SUPPRESSION AGENT WILL DETERMINE IF TWO WAY VENT IS REQUIRED.
3. FINAL THROAT AND OVERALL DIMENSIONS OF THE PRESSURE RELIEF DAMPERS WILL BE SELECTED BY THE DELEGATED DESGN CONTRACTOR BASED ON THE SIZE OF THE CLEAN AGENT SUPPRESSION SYSTEM.

BLAST SUPPRESSION DAMPER SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION	MOUNTING ORIENTATION	INSTALLATION ARRANGEMENT	MAXIMUM NORMAL AIRFLOW (CFM)	MAXIMUM ALLOWABLE PRESSURE DROP AT MAXIMUM NORMAL AIRFLOW (IN W.C.)	DIMENSIONS			REMARKS
								HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)	
001-BD-01-DC9	RUSKIN	CBS8BL	DC9	VERTICAL	DUCTED	950	0.10	24	24	12	1
001-BD-02-DC ROOF	RUSKIN	CBS8BL	ROOF	ROOF	DUCTED	950	0.12	18	14	12	1

REMARKS:
1. SEE SPECIFICATION 23 31 00 FOR PERFORMANCE REQUIREMENTS.

HUMIDIFIER SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION	TYPE	TOTAL HUMIDICATION (LB/H)	QUANTITY STEAM OUTLETS	COLD WATER PRESSURE RANGE (PSIG)	HEADER						DISCONNECT FURNISHED BY	FULL WEIGHT (LBS)	REMARKS
								TYPE	TUBE LENGTH (IN)	V	PH	HZ	FLA			
001-SH-01-DC9	DRISTEEM	VAPORSTREAM 9-1	DC9	DISPERSION TUBE	25.0	1	25-80	DISPERSION TUBES	NOTE 2	480	3	60	10.8	EC	212	1,2,3

REMARK:
1. PROVIDE WITH A SINGLE POINT POWER CONNECTION.
2. CONTRACTOR TO PROVIDE CONNECTION BETWEEN HUMIDIFIER AND 001-DOAS-01-DC9 DISPERSION SYSTEM.
3. HUMIDIFIER TO BE PROVIDED WITH MANUFACTURER RECOMMENDED DRAIN WATER TEMPERING DEVICE.
4. UNIT SHALL BE RATED FOR POTABLE WATER OR CONTRACTOR TO PROVIDE REVERSE OSMOSIS UNIT.

LOUVER SCHEDULE

TAG	MANUF.	MODEL NO.	SERVICE	TYPE	MATERIAL	AIR FLOW (CFM)	VELOCITY (FPM)	PRESS. DROP ("WC)	SIZE			MIN. FREE AREA (SF)	DAMPER		REMARKS
									WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)		ACTUATOR	POWER	
001-L-01-DC9	GREENHECK	ELF375DXH	INTAKE	STATIONARY	ALUMINUM	950	420	0.05	24	28	6	2.3	OPEN/CLOSE	24V	1, 2, 3

REMARKS:
1. PROVIDE 1/2"x1/2" 19 GAUGE ALUMINUM BIRD SCREEN ON INSIDE OF LOUVER
2. PROVIDE BAKED ENAMEL FINISH OF COLOR SELECTED BY COR FROM MANUFACTURERS STANDARD COLORS.
3. PROVIDE BACKDRAFT DAMPER WITH ACTUATOR. DAMPER SHALL BE LOW LEAKAGE TYPE NOT TO EXCEED 4 CFM/SF LEAKAGE WHEN TESTED IN ACCORDANCE WITH AMCA 5000 @ 1.0" WC.

FIRE DAMPER SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	BUILDING	LOCATION	UL RATING	TYPE	BLADE POSITION	SHAPE	INSTALLATION ARRANGEMENT	MAX PRESSURE DROP (IN WC)	REMARKS
001-FD-02-DC3	RUSKIN	DIBD2	BLDG 001	DC3	1-1/2 HOUR	DYNAMIC CURTAIN	BLADES OUT OF AIR STREAM	RECTANGULAR	VERTICAL MOUNT	0.03	1,2,3,4
001-FD-03-DC3	RUSKIN	DIBD2	BLDG 001	DC3	1-1/2 HOUR	DYNAMIC CURTAIN	BLADES OUT OF AIR STREAM	RECTANGULAR	VERTICAL MOUNT	0.03	1,2,3,4

REMARKS:
1. LEAKAGE CLASS I PER UL STANDARD 555S.
2. PROVIDE SQUARE TO ROUND ADAPTOR AS REQUIRED.
3. SEE DRAWINGS FOR DUCT SIZE.
4. PROVIDE WITH FUSIBLE LINK.

DEHUMIDIFIER SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION		TYPE	AIRFLOW RATE (CFM)	CAPACITY (PPD)	ELECTRICAL					DISCONNECT FURNISHED BY	FULL WEIGHT (LBS)	REMARKS
			BUILDING	ROOM				V	PH	HZ	MCA	MOP			
001-DH-01-DC2	CARRIER	DEHXXCDA1100	01	DC2	CONDENSING	210	85.0	120	1	60	12	20	EC	64	1,2,3
001-DH-02-DC2	CARRIER	DEHXXCDA1100	01	DC2	CONDENSING	210	85.0	120	1	60	12	20	EC	64	1,2,3

REMARKS:
1. PROVIDE WITH A SINGLE POINT POWER CONNECTION.
2. PROVIDE WITH CONDENSATE DRAIN PAN.
3. DUE TO THE EPA AMERICAN INNOVATION AND MANUFACTURING (AIM) ACT, R410A SYSTEMS ARE BEING PHASED OUT. R410A SYSTEMS WILL BE REPLACED BY R-32 AND R-454B SYSTEMS. AT THE TIME OF THE DATE ISSUED ON THE DRAWINGS, THERE ARE MINIMAL R-32 AND R-454B SELECTIONS AVAILABLE FROM MANUFACTURES. AS THE A/E IS UNABLE TO SCHEDULE SYSTEMS WITH THE NEW REFRIGERANTS IN THE APPROPRIATE SIZES AND CAPACITIES, THE SYSTEMS SHOWN ON THIS SCHEDULE ARE R410A SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FUNCTIONING SYSTEM THAT MEETS THE SCHEDULED CAPACITIES SHOWN AND THE EPA REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION. THIS MAY REQUIRE THE CONTRACTOR TO PURCHASE R-32 OR R-454B SYSTEMS RATHER THAN THE SCHEDULED R410A SYSTEMS. THE CONTRACTOR IS REPSONIBLE FOR ALL REQUIRED COORDINATION AND ADJUSTMENTS REQUIRED TO ACCOMMODATE THE EPA COMPLIANT SYSTEMS INCLUDING, BUT NOT LIMITED TO, ELECTRICAL LOAD CHANGES, REFRIGERANT PIPE SIZE CHANGES, INCREASED VENTILATION REQUIREMENTS, AND SPACE COORDINATION.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

RACHEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES II

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210

Issue Date: 08/22/2025 | **Checked:** MGH/JW | **Drawn:** AP/CY/EA/JJ/MA

Project Number: 528A7-22-700

Building Number: -

Drawing Number: M-602

VA FORM 08 - 6231

HOT WATER UNIT HEATER SCHEDULE

EQUIPMENT TAG	LOCATION	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	PERFORMANCE	WATER DATA						WEIGHT (LB)	ELECTRICAL DATA						CONFIGURATION	REMARKS
				HEATING CAPACITY (BTU/H)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	FLOW (GPM)	PRESSURE DROP (IN W.C.)		POWER (W)	VOLTAGE	PHASE	TOTAL AMPS	MCA	MAX FUSE		
001-UH-01-DC5	MECHANICAL SPACE	VULKAN RADIATOR	HV-18	8,383	160	140	60	82	1	0.01	26	16	208	1	0.4	0.5	15	WALL MOUNTED	1,2,3
001-UH-01-DC9	MECHANICAL SPACE	VULKAN RADIATOR	HV-18	8,383	160	140	60	82	1	0.01	26	16	208	1	0.4	0.5	15	WALL MOUNTED	1,2,3

REMARKS:
1. PROVIDE WALL MOUNTING KIT.
2. PROVIDE WITH WALL MOUNTED T-STAT.
3. UNIT SHALL BE FURNISHED WITH MANUFACTURERS STARTER.

FIRE AND SMOKE DAMPER SCHEDULE

EQUIPMENT TAG	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LOCATION	UL RATING	BLAD POSITION	INSTALLATION ARRANGEMENT	MAX PRESSURE DROP (IN WC)	ELECTRICAL		REMARKS
								VOLT	PHASE	
001-FSD-01-DC2	RUSKIN	FSD60	DC2	1-1/2 HOUR	OPPOSED BLADE IN AIR STREAM	HORZONTAL MOUNT	0.03	120	1	1,2,3,4,5,6

REMARKS:
1. LEAKAGE CLASS I PER UL STANDARD 555S.
2. PROVIDE SQUARE TO ROUND ADAPTOR AS REQUIRED.
3. INTERLOCK FIRE/SMOKE DAMPER WITH FIRE ALARM SYSTEM.
4. PROVIDE WITH 120V ACTUATOR AND FUSIBLE LINK.
5. ACCESS AND LABELING OF SMOKE SHALL COMPLY WITH THE CURRENT IMC.
6. DAMPER SHALL COMPLY WITH BOTH FIRE DAMPER AND SMOKE DAMPER SECTIONS OF SPECIFICATION 23 31 00.

HEAT TRACE SCHEDULE

EQUIPMENT TAG	LOCATION	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	TEMPERATURE			ELECTRICAL DATA				REMARKS
				DESIGN TEMP (°F)	DESIGN LENGTH (FT)	V	HZ	PH	MOP	
001-HT-01-DC428	DC428	RAYCHEM	3BTV1-CT	-10	46	10	120	60	1	30	1
001-HT-02-DC ROOF	DATA CENTER	RAYCHEM	3BTV1-CT	-10	46	10	120	60	1	30	1
001-HT-03-DC ROOF	DATA CENTER	RAYCHEM	3BTV1-CT	-10	46	10	120	60	1	30	1
001-HT-04-DC ROOF	DATA CENTER	RAYCHEM	3BTV1-CT	-10	46	10	120	60	1	30	1
001-HT-05-DC ROOF	DATA CENTER	RAYCHEM	3BTV1-CT	-10	46	10	120	60	1	30	1

REMARKS:
1. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE THAT APPROPRIATE ELECTRICAL CIRCUIT IS USED IF LENGTH AND WATTAGE EXCEEDS THAT SHOWN ON THIS SCHEDULE.

CONDENSATE PUMP SCHEDULE

EQUIPMENT TAG	BOD EQUIPMENT		ROOM	OPERATING POINT @10' WC (GPM)	ELECTRICAL					REMARKS
	MANUFACTURER	MODEL			POWER (HP)	V	PH	HZ	FLA	
001-FCP-01-CG06A	LITTLEGIANT	VCMA-20-ULST	CG06A	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-02-C106A	LITTLEGIANT	VCMA-20-ULST	C106A	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-04-C203	LITTLEGIANT	VCMA-20-ULST	C203	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-05-C303	LITTLEGIANT	VCMA-20-ULST	C303	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-06-C403A	LITTLEGIANT	VCMA-20-ULST	C403A	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-07-C507	LITTLEGIANT	VCMA-20-ULST	C507	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-08-C607	LITTLEGIANT	VCMA-20-ULST	C607	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-09-DC6	LITTLEGIANT	VCMA-20-ULST	DC6	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-10-DC7	LITTLEGIANT	VCMA-20-ULST	DC7	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-11-C703	LITTLEGIANT	VCMA-20-ULST	C703	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-12-C808	LITTLEGIANT	VCMA-20-ULST	C808	0.8	1/30	115 VAC	1	60	1.5	1,2
001-FCP-13-C907	LITTLEGIANT	VCMA-20-ULST	C907	0.8	1/30	115 VAC	1	60	1.5	1,2
002-FCP-01-BT03	LITTLEGIANT	VCMA-20-ULST	BT-03	0.8	1/30	115 VAC	1	60	1.5	1,2
ROME-FCP-01-G120	LITTLEGIANT	VCMA-20-ULST	G120	0.8	1/30	115 VAC	1	60	1.5	1,2

REMARKS:
1. PROVIDE WITH A SINGLE POINT POWER CONNECTION.
2. PROVIDE WITH CHECK VALVE.
3. PROVIDE WITH MOISTURE COLLECTION AND SENSOR FOR EARLY MOISTURE DETECTION.

STEAM TRAP SCHEDULE

EQUIPMENT TAG	LOCATION	SYSTEM AND/OR SERVICE	CAPACITY AT MIN DIFF PRESS (LBS/HR)	MIN DIFF PRESS (PSI)	MIN INLET PRESS (PSI)	TRAP TYPE	TRAP SIZE (IN)	REMARKS
001-ST-01-DC9	DATA CENTER	DISPERSION TUBES	25	0.3	NOTE 1	F&T	3/4	1
001-ST-02-DC9	DATA CENTER	DISPERSION TUBES	25	0.3	NOTE 1	F&T	3/4	1
001-ST-03-DC9	DATA CENTER	HUMIDIFIER	10	0.3	NOTE 1	F&T	3/4	1

REMARKS:
1. HUMIDIFIER MANUFACTURER LEAVING STEAM PRESSURE.

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
9/22/25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES III

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location: VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date: 08/22/2025

Checked: MGH/JW

Drawn: AP/CY/EA/JJ/MA

Project Number: 528A7-22-700

Building Number: -

Drawing Number: M-603

VA FORM 08 - 6231

CONTROLS SYMBOLS

T	ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT
M	ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER - WALL MOUNT
TT	TEMPERATURE TRANSMITTER
TT	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
MT	MOISTURE (HUMIDITY) TRANSMITTER
PT	PRESSURE TRANSMITTER
SPS	STATIC PRESSURE SENSOR
FT	FLOW TRANSMITTER
CS	CURRENT TRANSMITTER
CT	CONDUCTIVITY TRANSMITTER
SD	SMOKE DETECTOR
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PDS	PRESSURE DIFFERENTIAL SWITCH
HS	HAND SWITCH (HAND-OFF-AUTO SWITCH)
ZC	VALVE OR DAMPER POSITION CONTROLLER
KR	LOCAL RECORDING TIME CLOCK (RUNTIME)
TSL	TEMPERATURE SWITCH, LOW (FREEZESTAT)
TSH	TEMPERATURE SWITCH, HIGH (FREEZESTAT)
LC	LEVEL CONTROLLER
LT	LEVEL TRANSMITTER
RHC	RE HEAT COIL
FE	AIRFLOW SENSOR
TE	TEMPERATURE SENSOR
ATU	AIR TERMINAL UNITS

CONTROLS SYMBOLS

PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
EPT	ELECTRONIC TO PNEUMATIC TRANSDUCER
AT CO2	CARBON DIOXIDE TRANSMITTER
AT CO	CARBON MONOXIDE TRANSMITTER
AT OC	OCCUPANCY SENSOR
LTCP	LOCAL TEMPERATURE CONTROL PANEL
HVAC	HVAC CONTROL PANEL
VSMC	VARIABLE SPEED MOTOR CONTROLLER
ECC	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
TC	TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION
PC	PRESSURE CONTROLLER. SEE SEQUENCE OF OPERATION
SC	SPEED CONTROLLER. SEE SEQUENCE OF OPERATION
FC	FLOW CONTROLLER. SEE SEQUENCE OF OPERATION
FSH	FLOW SWITCH HIGH
FSL	FLOW SWITCH LOW
KC	TIME CLOCK CONTROLLING EQUIPMENT ON A SCHEDULE

CONTROLS SYMBOLS

	TEMPERATURE SENSING ELEMENT FOR TRANSMITTING TEMPERATURE TO EMCS (PROVIDE 12 INCHES [200mm] MINIMUM LENGTH IN DUCT WHEN SPACE PERMITS.)
A	SENSOR WITH AVERAGING ELEMENT TO TRANSMIT TEMPERATURE TO EMCS
	MOTOR STARTER
M	ELECTRIC OPERATED CONTROL DAMPER/OR VALVE

VALVE SYMBOLS

	GATE VALVE - THREADED/FLANGED
	GLOBE VALVE - THREADED/FLANGED
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	FLEXIBLE CONNECTION
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	MODULATING CONTROL BUTTERFLY VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY VALVE
	AUTOMATIC BALANCING CONTROL VALVE
	WATER BALANCE DEVICE
	CIRCUIT SETTER VALVE
	GATE VALVE WITH GLOBE-VALVED BYPASS
	PLUG VALVE
	CONTROL VALVE (CV) - FLOAT-OPERATED
	PRESSURE REDUCING VALVE (PRV)
LC	WATER LEVEL CONTROLLER
M	FLOW METER

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SDB SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL CONTROLS I

Phase
100% CONSTRUCTION DOCUMENTS

Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number
528A7-22-700

Building Number
-

Approved:

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date
08/22/2025

Checked
MGH/JW

Drawn
AP/CY/EA/JJ/MA

Drawing Number
M-701

VA FORM 08 - 6231

1 SEQUENCE OF OPERATION FOR CRAC UNITS PLC CONTROLLER

SCALE: NTS

1. GENERAL

1.1 UNITS ARE STARTED AND STOPPED REMOTELY VIA MANUFACTURER'S STAND ALONE CONTROLLERS. STAND ALONE CONTROLLERS FOR EACH CRAC UNIT SHALL COMMUNICATE WITH THE OTHER STAND ALONE CONTROLLER(S) TO COMMUNICATE STATUS OF CRAC UNITS.

1.2 AVERAGE RACK TEMPERATURE AND HUMIDITY SHALL BE REPORTED TO THE STAND ALONE CONTROLLERS FROM THE PLC.

2. TEMPERATURE CONTROL

2.1 THE AVERAGE INLET RACK TEMPERATURE SETPOINT SHALL BE 75°F (ADJ) WITH A 2°F (ADJ) DRIFT POINT.

2.2 IN DX MODE THE AVERAGE INLET RACK TEMPERATURE SHALL BE CONTROLLED BY MODULATING THE SUPPLY AIRFLOW PER THE SEQUENCE LISTED IN 3.1 BELOW AS THE FIRST STAGE OF COOLING AND THEN STAGING THE COMPRESSOR(S) AS THE SECOND STAGE OF COOLING.

2.3 IN CHILLED WATER MODE THE AVERAGE INLET RACK TEMPERATURES SHALL BE CONTROLLED BY MODULATING THE SUPPLY FAN PER THE SEQUENCE LISTED IN 3.1 BELOW AS THE FIRST STAGE OF COOLING AND THEN MODULATING THE CHILLED WATER CONTROL VALVE FROM FULLY CLOSED TO FULLY OPEN AS THE SECOND STAGE OF COOLING AS DESCRIBED IN SECTION 4.1 BELOW.

3. AIRFLOW CONTROL

3.1 THE SUPPLY AIRFLOW SHALL BE CONTROLLED BY MODULATING ALL OF THE SUPPLY FANS SPEEDS UNIFORMLY FROM A MINIMUM OF 60% (ADJ) OF THE SCHEDULED AIRFLOW TO A MAXIMUM OF 100% (ADJ) OF THE SCHEDULED AIRFLOW TO MAINTAIN AN AVERAGE INLET RACK TEMPERATURE SETPOINT. IF BOTH CRAC UNITS ARE AT MINIMUM VALVE POSITION OR THE LOWEST COMPRESSOR STAGE, ONE CRAC UNIT SHALL BE TURNED OFF. THE OTHER CRAC UNIT WILL RUN FROM 60% (ADJ) TO MAXIMUM AS THE LOAD IN THE SPACE REQUIRES. THE CRAC UNIT WILL BE TURNED BACK ON WHEN THE VALVE POSITION (CHILLED WATER MODE) REACHES 50% (ADJ) OF THE RUNNING CRAC UNIT OR COMPRESSOR ON THE RUNNING CRAC UNIT (DX MODE) HAS STAGED TO FULL CAPACITY.

4. INFRARED INTEGRAL HUMIDIFIER

4.1 THE INTEGRAL HUMIDIFIER SHALL PROVIDE PROPORTIONAL HUMIDIFICATION TO THE SUPPLY AIRSTREAM TO MAINTAIN THE SPACE HUMIDITY SETPOINT OF 30% (ADJ) RELATIVE HUMIDITY.

4.2 THE HUMIDIFIER SHALL NOT OPERATE IF THE RELATIVE HUMIDITY OF THE SUPPLY AIR EXCEEDS 95% (ADJ).

5. DX AND CHILLED WATER SWITCH OVER AND CYCLING

5.1 THE CRAC UNITS SHALL USE CHILLED WATER WHENEVER POSSIBLE. IF RACK INLET TEMPERATURE EXCEEDS DRIFT POINT FOR MORE THAN 15 MINUTES, THEN THE OPERATOR WORKSTATION SHALL BE NOTIFIED.

5.2 IF THE CRAC UNITS ARE IN DX MODE AND THE CHILLER PLANT IS RUNNING, THEN EVERY 24 HOURS (ADJ) THERE SHALL BE A REMINDER AT THE OPERATOR WORKSTATION THAT THE SYSTEM IS IN DX MODE.

5.3 IF THE CRAC DX UNITS HAVE NOT RUN IN 14 DAYS (ADJ), THEN THERE SHALL BE A NOTIFICATION AT THE OPERATOR WORKSTATION TO PROMPT THE OPERATOR TO MANUALLY SWITCH TO DX MODE FOR 24 HOURS (ADJ). AFTER 24 HOURS, THERE SHALL BE A NOTIFICATION PROMPTING THE OPERATOR TO MANUALLY SWITCH BACK TO CHILLED WATER MODE.

5.4 IF THE AVERAGE RACK INLET TEMPERATURE EXCEEDS 100°F (ADJ) THE UNITS SHALL AUTOMATICALLY FAILOVER TO EITHER DX OR CHILLED WATER MODE BASED ON THEIR CURRENT MODE UNLESS ONE UNIT HAS FAILED AND THE OTHER UNIT IS IN DX MODE, THEN THE SWITCHOVER SHALL NOT OCCUR.

6. ALARMS

6.1 IF THE SUPPLY AIR DISCHARGE TEMPERATURE DROPS BELOW 50°F (ADJ) THE UNIT SHALL GENERATE AN ALARM AT THE OPERATOR WORKSTATION.

6.2 IF THE SPACE TEMPERATURE EXCEEDS 85°F (ADJ) OR DROPS BELOW 50°F (ADJ), ALARM AT THE OPERATOR WORKSTATION.

6.3 IF THE SPACE HUMIDITY SENSOR EXCEEDS 55% (ADJ) OR DROPS BELOW 20% (ADJ), ALARM AT THE OPERATOR WORKSTATION.

6.4 IF THE SPACE MOISTURE SENSOR(S) IN THE DATA CENTER DETECTS MOISTURE, ALARM AT OPERATOR WORKSTATION.

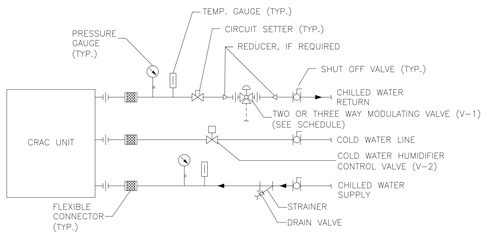
7. EMERGENCY SHUTDOWN

7.1 UPON DETECTION OF SMOKE IN THE DATA CENTER SPACE FROM THE ROOM SMOKE DETECTOR THE FIRE ALARM SYSTEM SHALL SHUT DOWN THE CRAC UNIT AND THE FIRE/SMOKE DAMPER(S) IN THE VENTILATION DUCTWORK SHALL CLOSE. FANS SHALL RESTART AND SMOKE DAMPERS SHALL OPEN WHEN THE FIRE ALARM CIRCUIT IS RESET.

7.2 THE CRAC UNIT SHALL BE SHUT DOWN VIA THE EMERGENCY MUSHROOM PUSHBUTTONS LOCATED AT BOTH ENTRANCES TO THE DATA CENTER. THIS SHALL BE A HARD SHUTDOWN. THE UNIT SHALL NOT RESTART UNTIL MANUALLY RESET. SEE ELECTRICAL DRAWINGS FOR WIRING DETAILS.

2 SEQUENCE OF OPERATION FOR CRAC UNITS STANDALONE CONTROLLER (CRAC 01 & 02)

SCALE: NTS



3 CRAC UNIT CHILLED WATER AND COLD WATER PIPING CONNECTIONS (CRAC 01 & 02)

SCALE: NTS

JOB: 528A7-22-700
BUILDING: DATA CENTER

SYSTEM: CRAC UNITS STANDALONE CONTROLLER

POINT LEGEND | SYSTEM OUTPUTS: BINARY, ANA-LOG | SYSTEM INPUTS: BINARY, ANALOG | SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING, APPLICATION/FUNCTION | PAGE:

SYSTEM COMPONENT:	POINT ID	ABBREVIATION	REMARKS
RETURN AIR TEMPERATURE	AI-1	RAT	
RETURN AIR HUMIDITY	AI-2	RAH	
SYSTEM AIR FLOW (CFM)	AI-3	SAF	
SUPPLY AIR TEMPERATURE	AI-4	SAT	
CHILLED WATER VALVE V-1	AI-5	CLG-V1	
INFRARED HUMIDIFIER STATUS	AI-6	HUM	
CHILLED WATER SUPPLY TEMP.	AI-7	CLG-EWT	
CHILLED WATER RETURN TEMP.	AI-8	CLG-LWT	
SUCTION LINE TEMP.	AI-9	DX-SLT	
LIQUID LINE TEMP.	AI-10	DX-LLT	
HUMIDIFIER VALVE V-2	AI-11	HUM-V2	
EQUIPMENT MODE	AI-12	MODE	
SUPPLY FAN STATUS	BI-1	SF-STS	
MOISTURE SENSOR	BI-2	MS	
CONDENSER STATUS	BI-3	COND-STS	

4 POINTS LIST FOR CRAC UNITS PLC CONTROLLER

SCALE: NTS

JOB: 528A7-22-700
BUILDING: DATA CENTER

SYSTEM: CRAC UNITS PLC

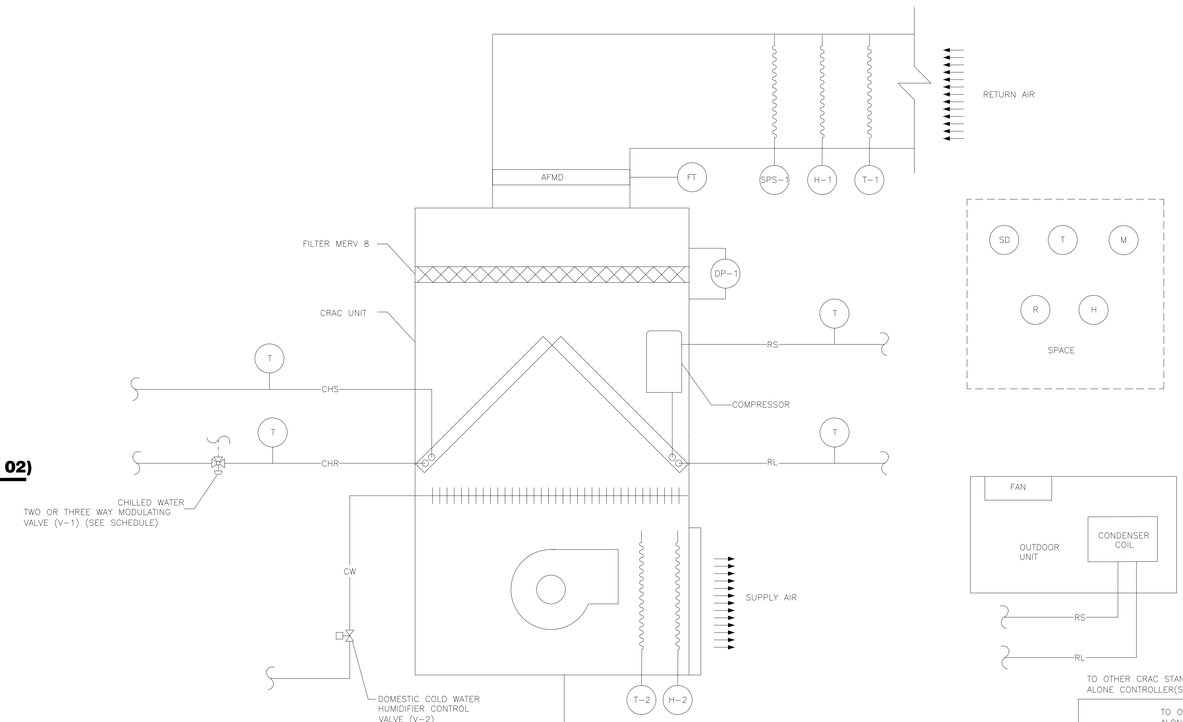
POINT LEGEND | SYSTEM OUTPUTS: BINARY, ANA-LOG | SYSTEM INPUTS: BINARY, ANALOG | SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING, APPLICATION/FUNCTION | PAGE:

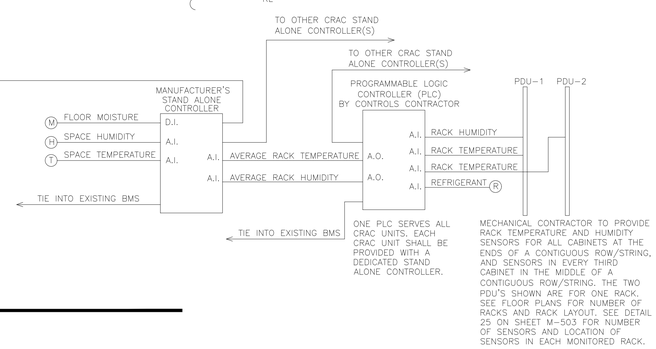
SYSTEM COMPONENT:	POINT ID	ABBREVIATION	REMARKS
RACK INLET TEMPERATURE PDU-1	AI-1	RIT-01	REMARK 1
RACK INLET TEMPERATURE PDU-2	AI-2	RIT-02	REMARK 1
RACK INLET HUMIDITY PDU-1	AI-3	RIH-01	REMARK 1
RACK INLET HUMIDITY AVERAGE	AI-4	RIH-AVG	
RACK INLET TEMPERATURE AVERAGE	AI-5	RIT-AVG	
REFRIGERANT SENSOR	AI-6	RS	
SPACE AIR TEMPERATURE	AI-7	SAT	
STATIC PRESSURE	AI-8	SPS-1	
FILTER DIFFERENTIAL PRESSURE	AI-9	DP-1	
SPACE AIR HUMIDITY	AI-11	SAH	
SPACE SMOKE DETECTOR	BI-1	SD	

REMARK 1: SENSORS LISTED FOR PDU-1 AND PDU-2 ARE FOR 1 RACK. SEE PLANS FOR NUMBER OF RACKS IN DATA CENTER.

5 POINTS LIST FOR CRAC UNITS STANDALONE CONTROLLER (CRAC 01 & 02)

SCALE: NTS





6 CRAC UNIT CONTROL DIAGRAM (CRAC 01 & 02)

SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title MECHANICAL CONTROLS II	**Phase** 100% CONSTRUCTION DOCUMENTS	**Project Title** EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	**Project Number** 528A7-22-700
Approved:		**Location** VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	**Building Number** -
		Issue Date 08/22/2025 / **Checked** MGH/JW / **Drawn** AP/CY/EA/JJ/MA	**Drawing Number** M-702

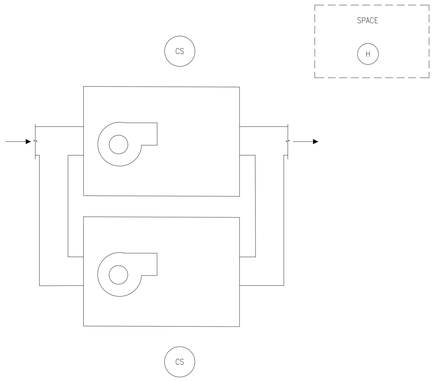
VA FORM 08 - 6231

JOB: 528A7-22-700 BUILDING: 01				POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS		SYSTEM SOFTWARE/CONTROL		PAGE:
					BINARY	ANA-LOG	BINARY	ANALOG	ALARM PROCESSING	APPLICATION/FUNCTION	
SYSTEM: DATA CENTER DEHUMIDIFIERS											
SYSTEM COMPONENT:	POINT ID	ABBREVIATION	PRIORITY ALPHA/NUMERIC (1-16)	SYSTEM ON/OFF CONTROL	SPACE HUMIDITY SETPOINT	SPACE HUMIDITY SENSOR	SUPPLY FAN PROVEN	SUPPLY FAN TROUBLE/ PROTECTIVE DEVICE	SPACE HUMIDITY	SUPPLY FAN STATUS	SUPPLY FAN RUNTIME HOURS	SPACE HUMIDITY ALARM	SUPPLY FAN TROUBLE ALARM	PROGRAM CONTROL ALARM	SPACE HUMIDITY CONTROL	PROGRAM CONTROL SETPOINTS	REMARKS
SPACE AIR HUMIDITY	AI-2	SAH					●										
SUPPLY FAN STATUS	BI-1	SF-STS					●										
SUPPLY FAN START/STOP	BO-1	SF-SST		●									●			●	

1. GENERAL
1.1 THE UNIT IS STARTED AND STOPPED REMOTELY BY THE ECC.
1.2 DEHUMIDIFIER SHALL READ FROM THE SAME ROOM HUMIDISTAT AS CRAC UNITS.
1.3 ONLY ONE UNIT SHALL BE IN OPERATION AT A GIVEN TIME.

2. HUMIDITY CONTROL
2.1 IF THE ROOM HUMIDITY SENSOR, H, SENSES A ROOM RELATIVE HUMIDITY OF 55% (VAR) OR GREATER, THE DEHUMIDIFIER SHALL BE ENABLED.
2.2 WHEN THE ROOM RELATIVE HUMIDITY LEVEL, AS SENSED BY H, FALLS BELOW 45% (VAR) THE DEHUMIDIFIER SHALL BE DISABLED.

3. ALARM:
3.1 IF DEHUMIDIFIER IS ENABLED BUT CS DOES NOT SENSE ANY CURRENT, ALARM AT OPERATOR WORK STATION.
3.2 IF SPACE HUMIDITY, SENSED BY H, RISES ABOVE 60% (VAR), ALARM AT OPERATOR WORK STATION.



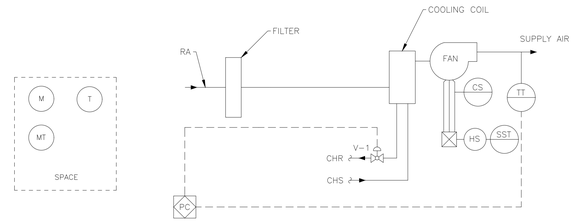
1 DE-HUMIDIFIER SEQUENCE

SCALE: NTS

JOB: 528A7-22-700 BUILDING: 01/02/ROME				POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS		SYSTEM SOFTWARE/CONTROL		PAGE:
					BINARY	ANA-LOG	BINARY	ANALOG	ALARM PROCESSING	APPLICATION/FUNCTION	
SYSTEM: COOLING ONLY FAN COIL UNIT											
SYSTEM COMPONENT:	POINT ID	ABBREVIATION	PRIORITY ALPHA/NUMERIC (1-16)	SYSTEM ON/OFF CONTROL	SPACE TEMPERATURE SETPOINT	SPACE TEMPERATURE SENSOR	SUPPLY FAN PROVEN	SUPPLY FAN TROUBLE/ PROTECTIVE DEVICE	SPACE TEMPERATURE	SUPPLY FAN STATUS	SUPPLY FAN RUNTIME HOURS	SPACE TEMPERATURE ALARM	SUPPLY FAN TROUBLE ALARM	PROGRAM CONTROL ALARM	SPACE TEMPERATURE CONTROL	PROGRAM CONTROL SETPOINTS	REMARKS
SPACE AIR TEMPERATURE	AI-1	SAT			●	●											
SPACE AIR HUMIDITY	AI-2	SAH							●								
SUPPLY FAN STATUS	BI-1	SF-STS					●										
SUPPLY FAN VSMC ALARM	BI-2	SF-ALA					●										
SUPPLY FAN VSMC	AO-1	SF-SPD															FULL COMMUNICATION
COILING VALVE V-1	AO-2	CLG-V1															
SUPPLY FAN START/STOP	BO-1	SF-SST		●													

FAN COIL SEQUENCE OF OPERATION (NONPATIENT ROOMS):

1. GENERAL
1.1 FAN COIL SHALL OPERATE ON A SCHEDULE AS SET BY ECC. FAN SHALL RUN CONTINUOUSLY IN OCCUPIED MODE.
1.2 SPACE TEMPERATURE SETPOINT IS 76 F° (VAR) AS SENSED BY T-1.
2. TEMPERATURE CONTROL
2.1 MODULATE V-1 TO MAINTAIN SPACE TEMPERATURE SET POINT.
3. AIRFLOW CONTROL
3.1 IF V-1 IS FULL OPEN AND TEMPERATURE IN SPACE IS ABOVE 80°F, FAN SHALL STAGE TO NEXT HIGHEST SPEED.
3.2 UPON FALL IN TEMPERATURE BELOW 74°F (VAR) FAN SHALL STAGE TO LOWEST SPEED.
3.3 UPON TEMPERATURE BELOW 70°F V-1 SHALL FULLY CLOSE AND FAN SHALL SHUT OFF.
4. ALARMS
4.1 FAN STATUS SHALL BE MONITORED AND AN ALARM MESSAGE SHALL BE GENERATED IN THE EVENT THE UNIT FAILS TO RUN.
4.2 IF THE SPACE TEMPERATURE AS SENSED BY T-1 FALLS OUTSIDE OF THE RANGE OF 65°F-80°F (VAR) AN ALARM SHALL BE GENERATED.
4.3 IF THE SPACE HUMIDITY AS SENSED BY H-1 FALLS OUTSIDE OF 40%-60% RH, GENERATE AN ALARM MESSAGE THROUGH THE BMS.



2 2-PIPE FAN COIL UNIT CONTROL DIAGRAM

SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL CONTROLS III

Phase
100% CONSTRUCTION DOCUMENTS

Approved:

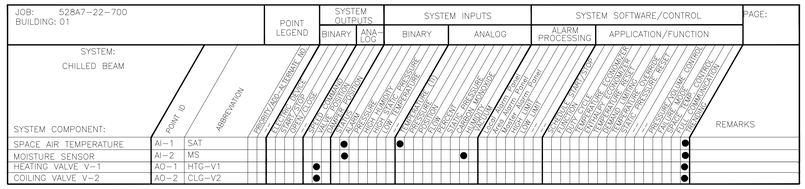
Project Title
EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Location
VA NY SYRACUSE
800 IRVING AVE., SYRACUSE, NY 13210

Issue Date 08/22/2025
Checked MGH/JW
Drawn AP/CY/EA/JJ/MA

Project Number 528A7-22-700
Building Number -
Drawing Number M-703

VA FORM 08 - 6231



CONSTANT VOLUME 4-PIPE ACTIVE CHILLED BEAM

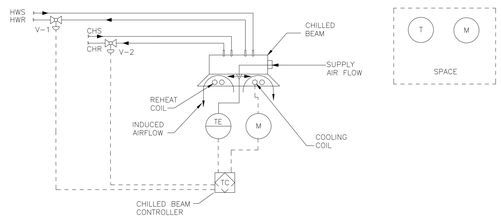
W/DEADBAND

1. GENERAL
1.1 WHERE MULTIPLE CHILLED BEAMS ARE IN A SINGLE SPACE, CHILLED BEAMS SHALL ALL BE IN HEATING OR ALL BE IN COOLING.
1.2 CHILLED BEAM SHALL BE INTERLOCKED WITH CORRESPONDING CAV UNIT. IF CAV DAMPER IS FULLY CLOSED, CLOSE V-1 AND V-2

2. TEMPERATURE CONTROL
2.1 SET POINTS SHALL BE AS FOLLOWS:
COOLING 75° F (VAR), HEATING 70° F (VAR) DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINT WILL BE MAINTAINED.
UPON FALL IN SPACE TEMPERATURE BELOW SET POINT VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT ± 2°F,THE ADJUSTABLE TOLERANCE OF ± 2°F HAS BEEN SELECTED TO PREVENT VALVE HUNTING.
UPON RISE IN TEMPERATURE ABOVE 75°F (VAR), VALVE V-2 WILL MODULATE TO MAINTAIN SET POINT ± 2°F,THE ADJUSTABLE TOLERANCE OF ± 2°F HAS BEEN SELECTED TO PREVENT CONDENSATE FROM DEVELOPING ON THE COOLING COIL.

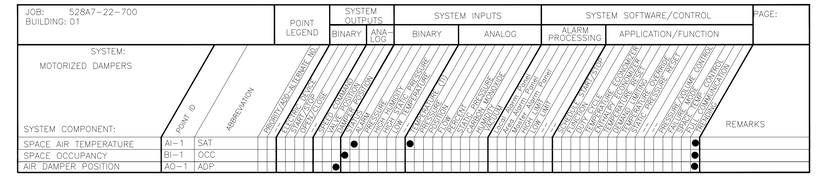
3. MOISTURE CONTROL
3.1 WHILE MOISTURE IS DETECTED BY MOISTURE SENSOR, V-2 SHALL CLOSE FOR A PERIOD OF 30 MINUTES OR UNTIL MOISTURE SENSOR NO LONGER DETECTS MOISTURE ON THE COIL. COOLING COIL VALVE SHALL THEN MODULATE OPEN FROM CLOSED IN NO GREATER THAN 10% INCREMENTS PER 5 MINUTES UNTIL ROOM TEMPERATURE SET POINT IS MET.

4. ALARMS
4.1 UPON DETECTION OF MOISTURE, ALARM AT ECC.
4.2 DEW POINT SHALL BE CALCULATED BETWEEN HUMIDISTAT AND SPACE TEMPERATURE. IF DEW POINT IS WITHIN 2°F OF INTERMEDIATE CHILLED WATER TEMPERATURE, CLOSE CHILLED WATER CONTROL VALVES ON ALL CHILLED BEAMS SERVING SPACE, ALARM AT ECC.
4.3 UPON SPACE TEMPERATURE FALLING OUTSIDE OF RANGE BETWEEN 65°F-80°F, ALARM AT ECC.



1 4-PIPE CHILLED BEAM CONTROL DIAGRAM

SCALE: NTS

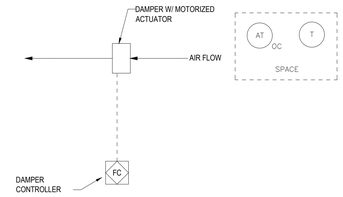


MOTORIZED DAMPER CONTROL SEQUENCE

1. GENERAL
1.1 OCCUPANCY MODES AS DESCRIBED BELOW SHALL ONLY BE FOR SPACES WITH MORE THAN ONE CHILLED BEAM. IF THE SPACE HAS A SINGLE CHILLED BEAM ONLY, THE UNIT SHALL MAINTAIN CONSTANT AIRFLOW VIA THE AIR FLOW REGULATOR. THE NEED FOR ADDITIONAL COOLING OR HEATING AT CHILLED BEAM SHALL OVERRIDE UNOCCUPIED MODE.

2. MODES
DAMPER WITH ACTUATOR SHALL HAVE TWO MODES, OCCUPIED AND UNOCCUPIED.
2.1 OCCUPANCY MODE SHALL BE DETERMINED PER SPACE OCCUPANCY SENSOR.

3. AIRFLOW CONTROL
3.1 IN OCCUPIED MODE, DAMPER SHALL FULLY OPEN.
3.2 IN UNOCCUPIED MODE, DAMPER SHALL FULLY CLOSE.



2 MOTORIZED DAMPER SEQUENCE AND POINTS LIST

SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032
SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	MECHANICAL CONTROLS IV
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Project Number	528A7-22-700
Building Number	-
Drawing Number	M-704

VA FORM 08 - 6231

SEQUENCE OF OPERATION FOR DOAS

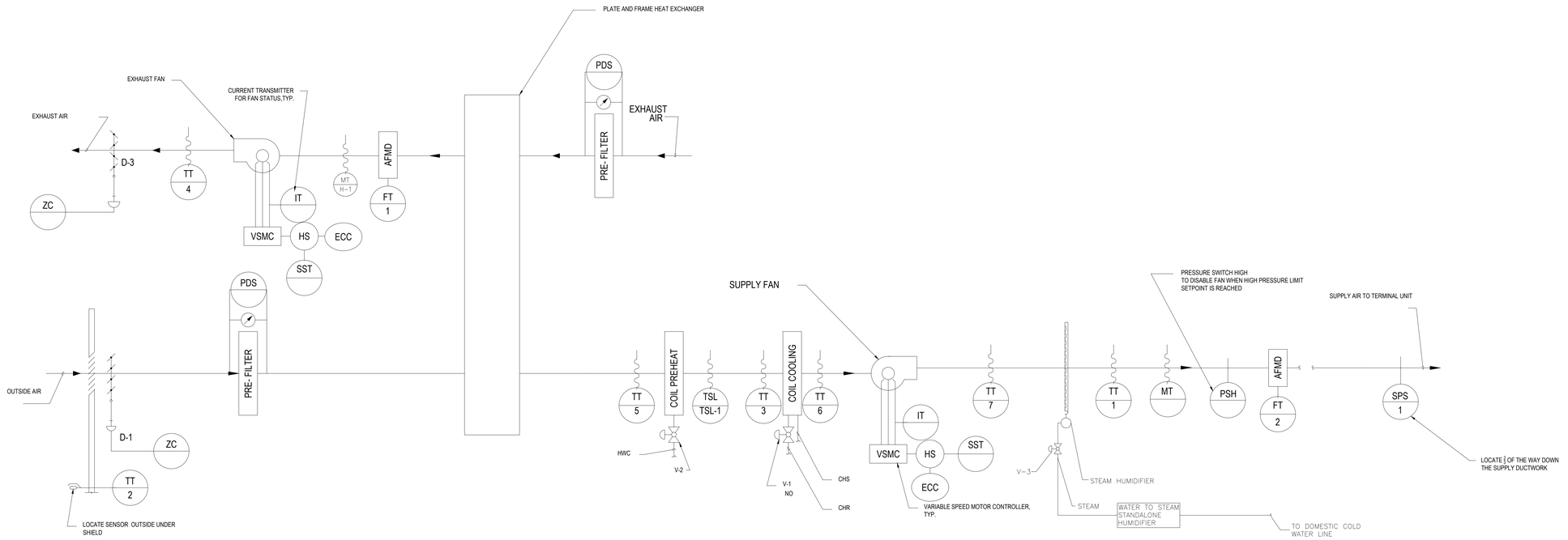
1. GENERAL
1.1 UNIT IS NORMALLY STARTED AND STOPPED REMOTELY AT THE ECC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE. WHEN THE UNIT IS "OFF" D-1, D-3, SHALL BE FULLY CLOSED.
2. TEMPERATURE CONTROL
2.1 SUPPLY AIR TEMPERATURE, SENSED BY TT-1, SHALL BE MAINTAINED AT SETPOINT OF 53 °F VIA DIGITAL CONTROL PANEL BY MODULATING V-1 AND V-2.
2.3 V-1 AND V-2 SHALL NOT BE OPEN AT THE SAME TIME.
3. AIRFLOW CONTROL
3.1 THE SUPPLY AIR FLOW SHALL BE CONTROLLED BY THE DIGITAL CONTROL PANEL MODULATING THE SUPPLY FAN VARIABLE SPEED MOTOR CONTROLLER TO MAINTAIN 1.0" (VAR) OF DUCT STATIC PRESSURE (FIELD ADJUSTABLE). FINAL DUCT STATIC PRESSURE SET POINT SHALL BE DETERMINED BY TAB CONTRACTOR AS SENSED BY SPS-1.
3.2 THE EXHAUST FAN SHALL MODULATE SUCH THAT THE EXHAUST AIRFLOW AS SENSED BY FT-1 IS 140 CFM (VAR) LESS THAN THE SUPPLY AIRFLOW AS SENSED BY FT-2.
3.3 USING HIGH PRESSURE SENSOR SPS-1 LOCATED AT THE SUPPLY FAN DISCHARGE, SHALL PREVENT THE SUPPLY FAN FROM DEVELOPING OVER 3" OF STATIC PRESSURE (FIELD ADJUSTABLE). IF STATIC PRESSURE AT SPS-1 DOES EXCEED 3" THE SUPPLY AIR FAN SHALL STOP. SPS-1 SHALL BE HARDWIRED TO THE SUPPLY FAN VSMC.
4. HUMIDITY CONTROL
4.1 UPON CALL FOR HUMIDITY, HUMIDIFIER SHALL TURN ON.
4.2 WHEN THE DIGITAL CONTROL PANEL IS NOT CALLING FOR HUMIDITY, SENSED BY EXHAUST AIR HUMIDITY SENSOR H-1, 2-WAY "ON-OFF" CONTROL VALVE V-3 SHALL REMAIN CLOSED. WHEN THE DIGITAL CONTROL PANEL IS CALLING FOR HUMIDITY, V-3 SHALL REMAIN OPEN.
4.3 EXHAUST AIR HUMIDITY, AS SENSED BY H-1, SHALL BE MAINTAINED AT SET POINT OF 35% RH (ADJ) VIA DIGITAL CONTROL PANEL BY MODULATING CONTROL VALVE V-3 TO MAINTAIN THE DESIRED HUMIDITY. DCP SHALL CLOSE VALVE V-3 WHENEVER THE SUPPLY FAN IS OFF. VALVE V-3 SHALL BE INTERLOCKED WITH A TEMPERATURE SWITCH TO KEEP THE HUMIDIFIER OFF UNTIL CONDENSATE TEMPERATURE APPROACHES STEAM TEMPERATURE.
4.4 IF HUMIDITY AS SENSED BY H-1 DROPS BELOW 25% ALARM AT ECC.

5. FREEZE PROTECTION
5.1 IF THE AIR TEMPERATURE AS SENSED BY TT-3 FALLS BELOW 45°F, AN ALARM SIGNAL SHALL INDICATE AT THE DCP AND ECC. IF THIS TEMPERATURE FALLS BELOW 40°F [4.4°C], AS SENSED BY THE TSL THE SUPPLY AND RETURN FANS SHALL SHUT DOWN AND A CRITICAL ALARM SHALL INDICATE AT THE DIGITAL CONTROL PANEL AND ECC. TSL SHALL BE HARDWIRED TO THE SUPPLY FAN UFD AND UNIT SHALL BE SHUTDOWN IN HAND,AUTO OR BYPASS MODE. TSL WILL REQUIRE MANUAL RESET AT THE DEVICE.
5.2 IF THE AIR TEMPERATURE AS SENSED BY TT-5 FALLS BELOW 45°F, AN ALARM SIGNAL SHALL INDICATE AT THE DCP AND ECC. IF THIS TEMPERATURE FALLS BELOW 40°F [4.4°C], AS SENSED BY THE TSL THE SUPPLY AND RETURN FANS SHALL SHUT DOWN AND A CRITICAL ALARM SHALL INDICATE AT THE DIGITAL CONTROL PANEL AND ECC. TSL SHALL BE HARDWIRED TO THE SUPPLY FAN UFD AND UNIT SHALL BE SHUTDOWN IN HAND,AUTO OR BYPASS MODE. TSL WILL REQUIRE MANUAL RESET AT THE DEVICE.
6. AUTOMATIC SHUTDOWN/RESTART
6.1 WHEN SMOKE IS DETECTED IN THE SPACES SERVED BY THE DOAS AND RELAYED TO THE LOCAL FIRE ALARM CONTROL PANEL. THE UNIT SHALL SHUT OFF.
7. EMERGENCY CONSTANT SPEED OPERATION
7.1 UPON FAILURE OF THE VSMC, THE SUPPLY AND EXHAUST FANS SHALL BE STARTED/STOPPED MANUALLY AT THE DIGITAL CONTROL PANEL OR THE ECC THROUGH THE SPEED CONTROLLER. FANS SHALL THEN BE OPERATED AT CONSTANT SPEED.

JOB: 528A7-22-700
BUILDING: BUILDING 01

PAGE:

SYSTEM: DATA CENTER DOAS			POINT LEGEND	SYSTEM OUTPUTS		SYSTEM INPUTS		SYSTEM SOFTWARE/CONTROL		
				BINARY	ANA-LOG	BINARY	ANALOG	ALARM PROCESSING	APPLICATION/FUNCTION	
SYSTEM COMPONENT:	POINT ID	ABBREVIATION	PRIORITY(HAR,ALT,REMOTE NO) / STOP/START DEVICE / START/STOP CIRCUITRY / ANALOG OUTPUT / DAMPER CONTROL / VALVE CONTROL / LOCKOUT RELAY / ALARM / PRESSURE SWITCH / FAN TEMPERATURE / PRESSURE TO ATMOSPHERE / FLOW / FILTER / PRESSURE DIFFERENTIAL / STATUS / SMOKE ALARM / FAN ALARM / FAN ON/OFF	CONTINUITY MONITOR / TEMPERATURE / TEMPERATURE DIFFERENTIAL / DIGITAL ON/OFF / DIGITAL ALARM / TEMPERATURE / HUMIDITY / PRESSURE / FLOW / PRESSURE/TEMPERATURE COMPENSATED FLOW	REMARKS
EXHAUST AIRFLOW (CFM)	AI-1	RAF								
PRE-HEAT TEMPERATURE	AI-2	PHT								
COOLING COIL TEMPERATURE	AI-3	CCT								
DISCHARGE AIR TEMPERATURE	AI-4	DAT								
DISCHARGE STATIC PRESSURE	AI-5	DASP								
DISCHARGE AIR HUMIDITY	AI-6	DAH								
SUPPLY AIRFLOW (CFM)	AI-7	SAF								
OUTSIDE AIR TEMPERATURE	AI-8	OAT								
EXHAUST AIR HUMIDITY	AI-9	EAH								
EXHAUST LOW PRESSURE	BI-1	RLP								
EXHAUST FAN STATUS	BI-2	RF-STS								
SUPPLY FAN STATUS	BI-3	SF-STS								
STATIC PRESSURE HIGH LIMIT	BI-4	SPS-2								
FIRE ALARM SIGNAL	BI-5	FAS								
SUPPLY FAN VSMC ALARM	BI-6	SF-ALA								
EXHAUST FAN VSMC ALARM	BI-7	RF-ALA								
EXHAUST FAN VSMC	AO-1	RF-SPD								FULL COMMUNICATION
SUPPLY FAN VSMC	AO-2	SF-SPD								FULL COMMUNICATION
OUTSIDE AIR DAMPER	AO-3	OAD								
EXHAUST AIR DAMPER	AO-4	RAD								
EXHAUST AIR DAMPER	AO-5	EAD								
PRE-HEAT VALVE V-2	AO-6	PHT-V1								
COOLING VALVE V-1	AO-7	CLG-V1								
STEAM HUMIDIFIER VALVE V-3	AO-8	HUM-V3								
EXHAUST FAN START/STOP	BO-1	RF-SST								
SUPPLY FAN START/STOP	BO-2	SF-SST								



1 DOAS UNIT CONTROL DIAGRAM

SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

MICHAEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL CONTROLS V

Phase: 100% CONSTRUCTION DOCUMENTS

Approved:

Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA

Project Number: 528A7-22-700

Building Number: -

Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210

Issue Date: 08/22/2025

Checked: MGH/JW

Drawn: AP/CY/EA/JJ/MA

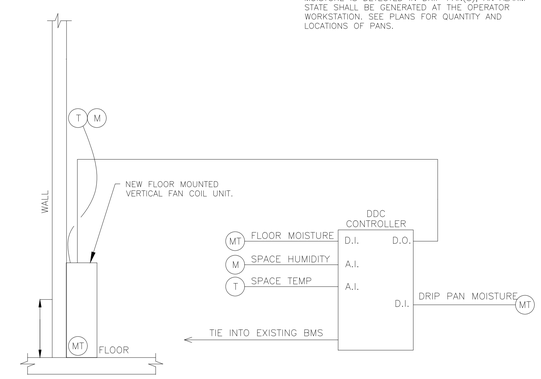
Drawing Number: M-705

VA FORM 08 - 6231

SEQUENCE OF OPERATION

1. TEMPERATURE CONTROL AND MONITORING
1.1 THE FAN COIL UNIT SHALL OPERATE CONTINUOUSLY TO MAINTAIN A SPACE TEMPERATURE OF 75°(ADJ).
1.2 SHOW SPACE TEMPERATURE AND HUMIDITY AT THE BMS GRAPHIC DISPLAY. PROVIDE TEMPERATURE TRENDS.
1.3 SHOW RACK TEMPERATURE AND HUMIDITY. SEE PLANS FOR NUMBER OF RACKS PER TR. PROVIDE TEMPERATURE TRENDS.

2. ALARMS
2.1 IF THE TEMPERATURE EXCEEDS 80°F IN THE TR, AN ALARM STATE SHALL BE GENERATED AT THE OPERATOR WORKSTATION.
2.2 IF MOISTURE IS DETECTED ON FLOOR, AN ALARM STATE SHALL BE GENERATED AT THE OPERATOR WORKSTATION.
2.3 IF DRIP PAN(S) EXIST IN THE TELECOM ROOM AND MOISTURE IS DETECTED IN DRIP PAN(S), AN ALARM STATE SHALL BE GENERATED AT THE OPERATOR WORKSTATION. SEE PLANS FOR QUANTITY AND LOCATIONS OF PANS.



1 TELECOMMUNICATION ROOM CONTROL DIAGRAM (FAN COIL)

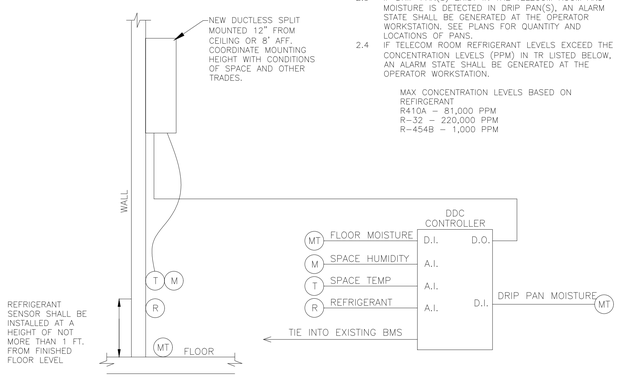
SCALE: NTS

SEQUENCE OF OPERATION

1. TEMPERATURE CONTROL AND MONITORING
1.1 THE DUCTLESS SPLIT(S) SHALL OPERATE CONTINUOUSLY TO MAINTAIN A SPACE TEMPERATURE OF 75°(ADJ).
1.2 SHOW SPACE TEMPERATURE AND HUMIDITY AT THE BMS GRAPHIC DISPLAY. PROVIDE TEMPERATURE TRENDS.
1.3 SHOW RACK TEMPERATURE AND HUMIDITY. SEE PLANS FOR NUMBER OF RACKS PER TR. PROVIDE TEMPERATURE TRENDS.

2. ALARMS
2.1 IF THE TEMPERATURE EXCEEDS 80°F IN THE TR, AN ALARM STATE SHALL BE GENERATED AT THE OPERATOR WORKSTATION.
2.2 IF MOISTURE IS DETECTED ON FLOOR, AN ALARM STATE SHALL BE GENERATED AT THE OPERATOR WORKSTATION.
2.3 IF DRIP PAN(S) EXIST IN THE TELECOM ROOM AND MOISTURE IS DETECTED IN DRIP PAN(S), AN ALARM STATE SHALL BE GENERATED AT THE OPERATOR WORKSTATION.
2.4 IF TELECOM ROOM REFRIGERANT LEVELS EXCEED THE CONCENTRATION LEVELS (PPM) IN TR LISTED BELOW, AN ALARM STATE SHALL BE GENERATED AT THE OPERATOR WORKSTATION.

MAX CONCENTRATION LEVELS BASED ON REFRIGERANT
R410A – 81,000 PPM
R–32 – 220,000 PPM
R–454B – 1,000 PPM



2 TELECOMMUNICATION ROOM CONTROL DIAGRAM (DUCTLESS SPLIT)

SCALE: NTS

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

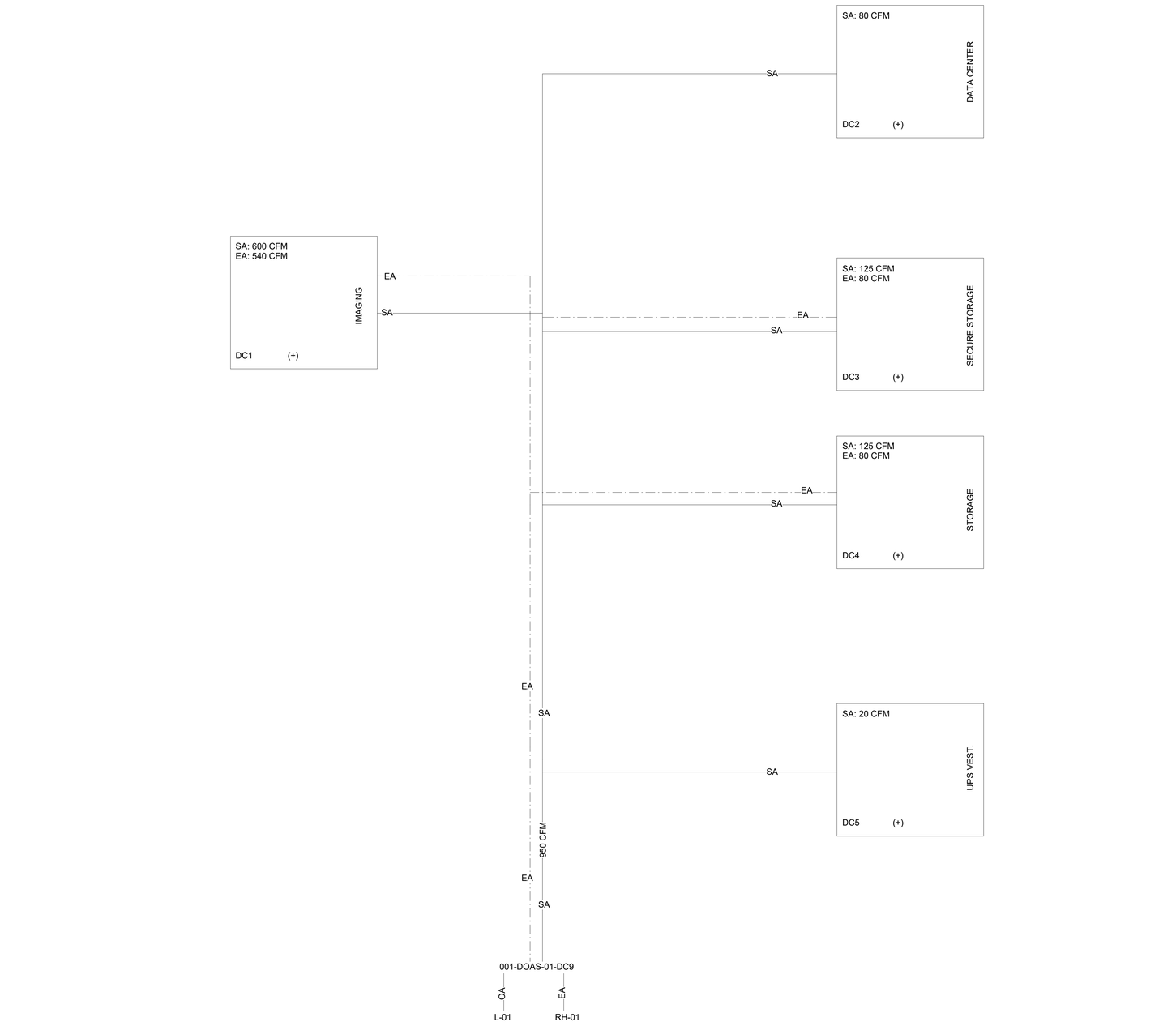
MICHAEL G. HUBBARD
STATE OF WASHINGTON
39485
REGISTERED
PROFESSIONAL ENGINEER
8/22/25

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL CONTROLS VI	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA	Project Number: 528A7-22-700
Approved:			Building Number: -
		Location: VA NY SYRACUSE, 800 IRVING AVE., SYRACUSE, NY 13210	Drawing Number: M-706
		Issue Date: 08/22/2025 / Checked: MGH/JW / Drawn: AP/CY/EA/JJ/MA	

VA FORM 08 - 6231



1 DATA CENTER -PRESSURE MAP

1/4" = 1'-0"

Revisions:	Date:

CONSULTANT/ DISCIPLINE

DISCIPLINE: MECHANICAL

ARCHITECT/ ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
23830 PACIFIC HIGHWAY S. SUITE 300
KENT, WA 98032

SPEESDESIGNBUILD

STAMP

RACHEL G. HUBBARD — STATE OF WASHINGTON — 39485 — REGISTERED PROFESSIONAL ENGINEER
8/22/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	DATA CENTER - PRESSURE MAP PLAN
Phase	100% CONSTRUCTION DOCUMENTS
Approved:	
	FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - SYRACUSE VA
Location	VA NY SYRACUSE 800 IRVING AVE., SYRACUSE, NY 13210
Issue Date	08/22/2025
Checked	MGH/JW
Drawn	AP/CY/EA/JJ/MA
Project Number	528A7-22-700
Building Number	001
Drawing Number	001-M-801

Autodesk Docs://528A7-22-700
VA Syracuse EHRM
Infrastructure
Upgrades/VASY_01_ME_SDB.rvt
8/20/2025 8:13:00 AM

VA FORM 08 - 6231