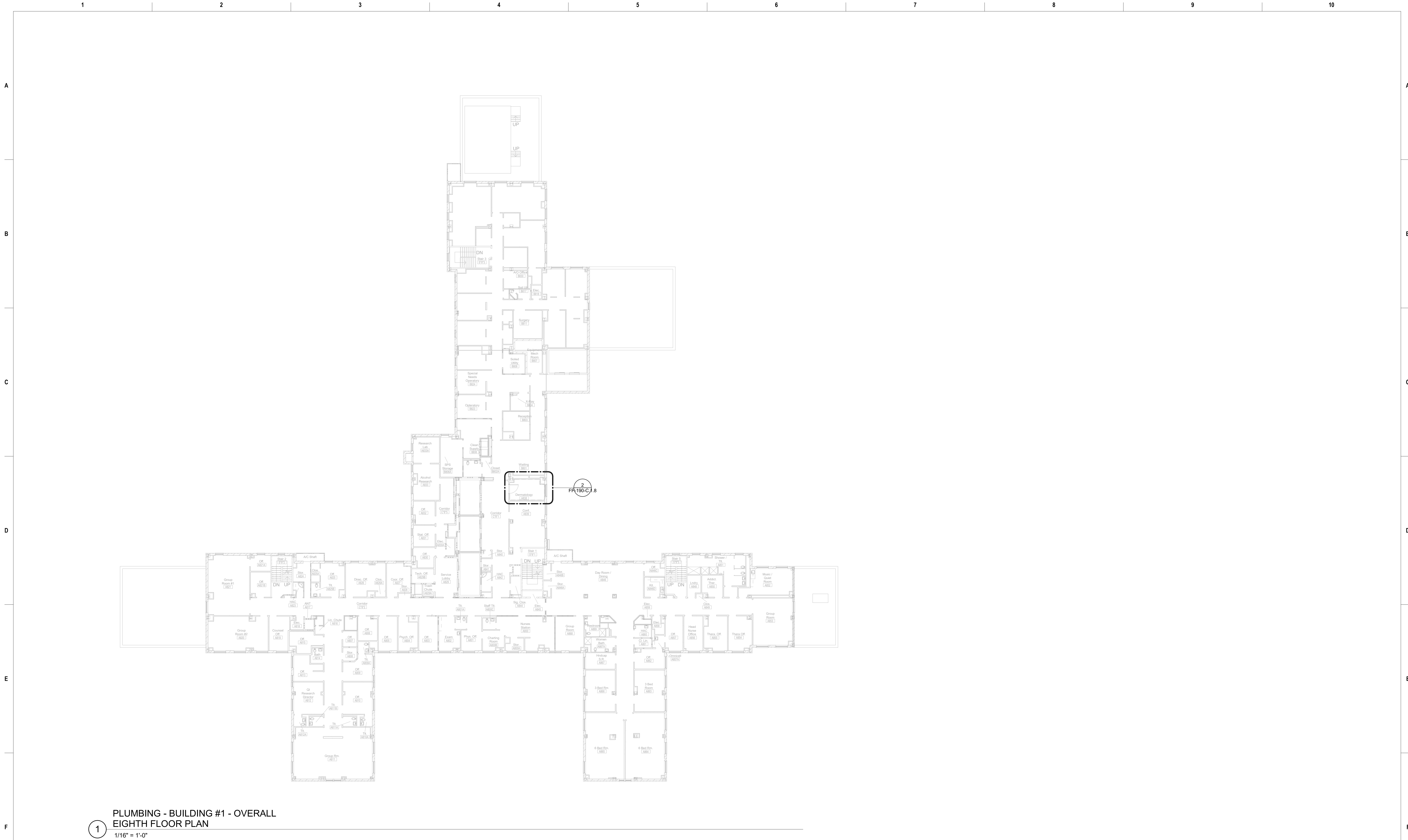


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Revisions:	Date:

CONSULTANT

Ross & Baruzzini

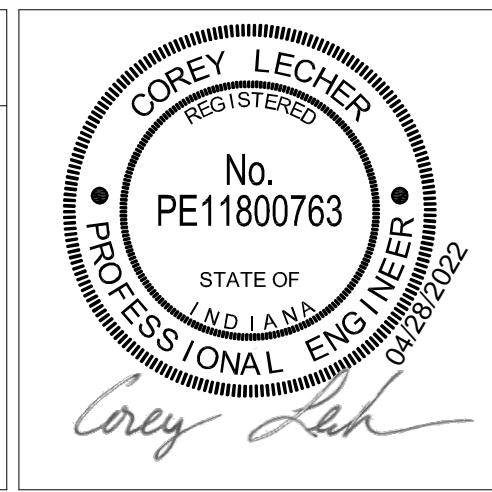
6 SOUTH OLD ORCHARD
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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

PLUMBING EIGHTH FLOOR OVERALL & ENLARGED PLANS

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location

3200 VINE ST. CINCINNATI, OH.

Issue Date

04-MAY-2022

Checked Approver

Drawn Author

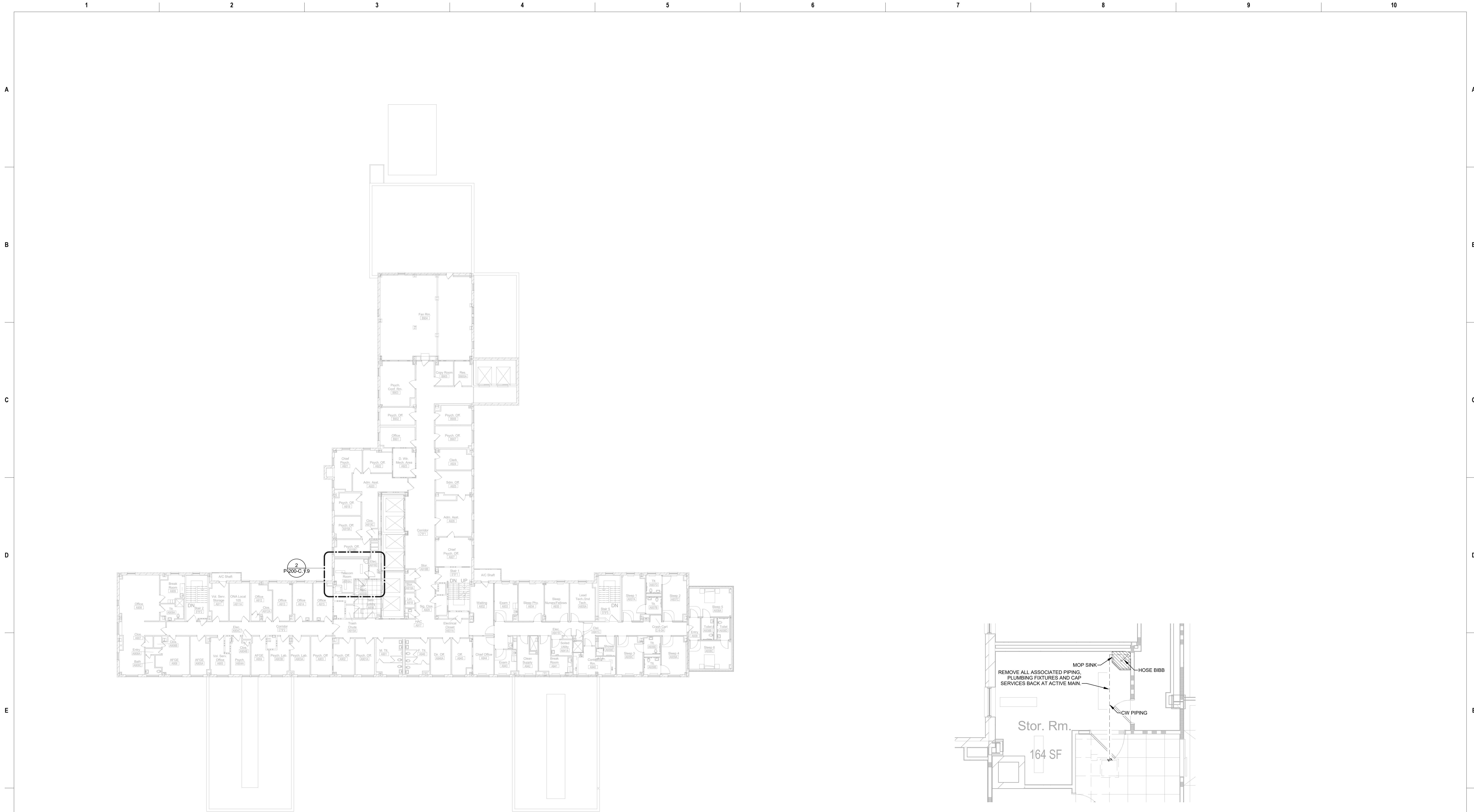
Project Number

539-21-701

Building Number

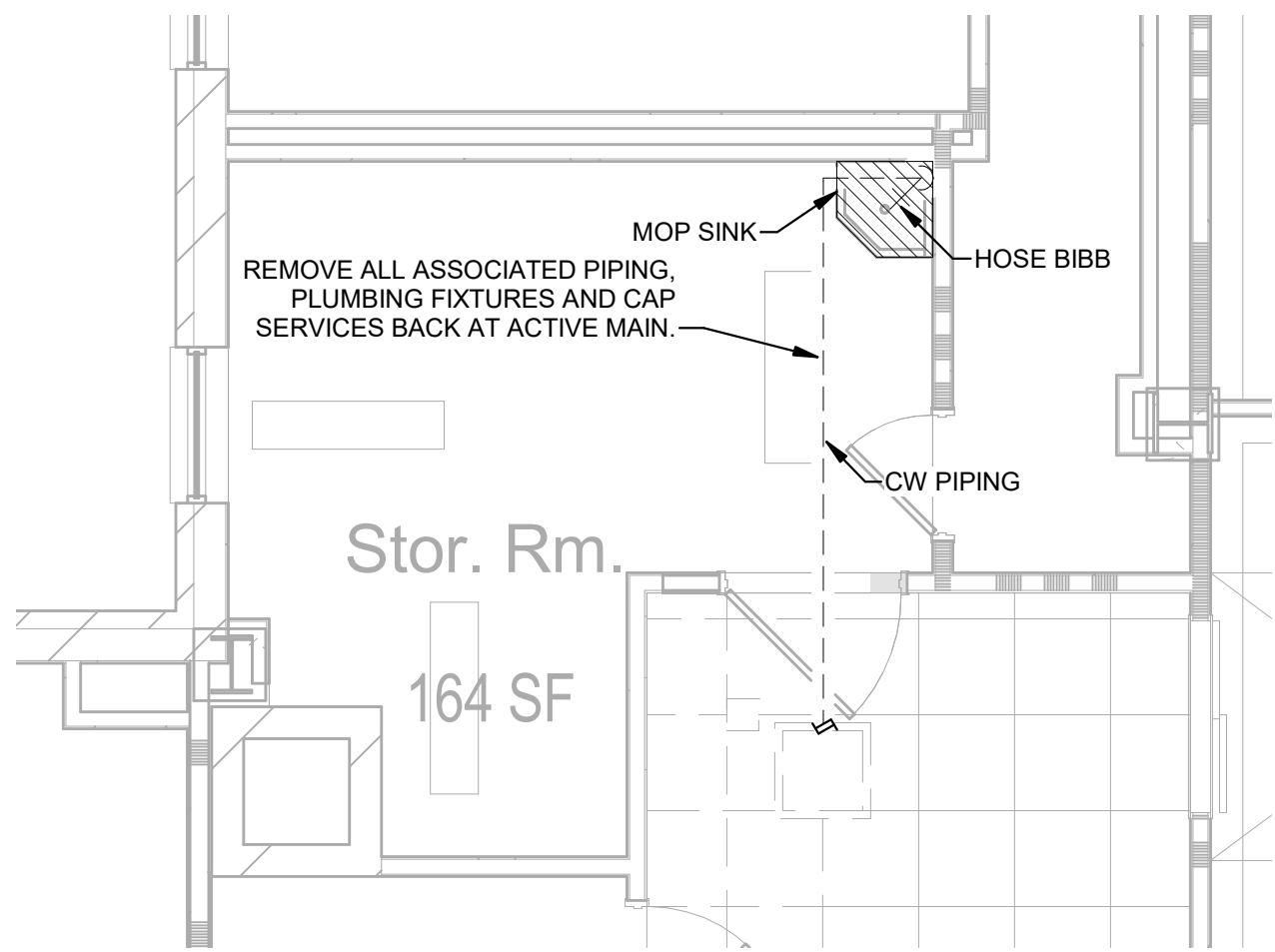
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P-190-C.1.8







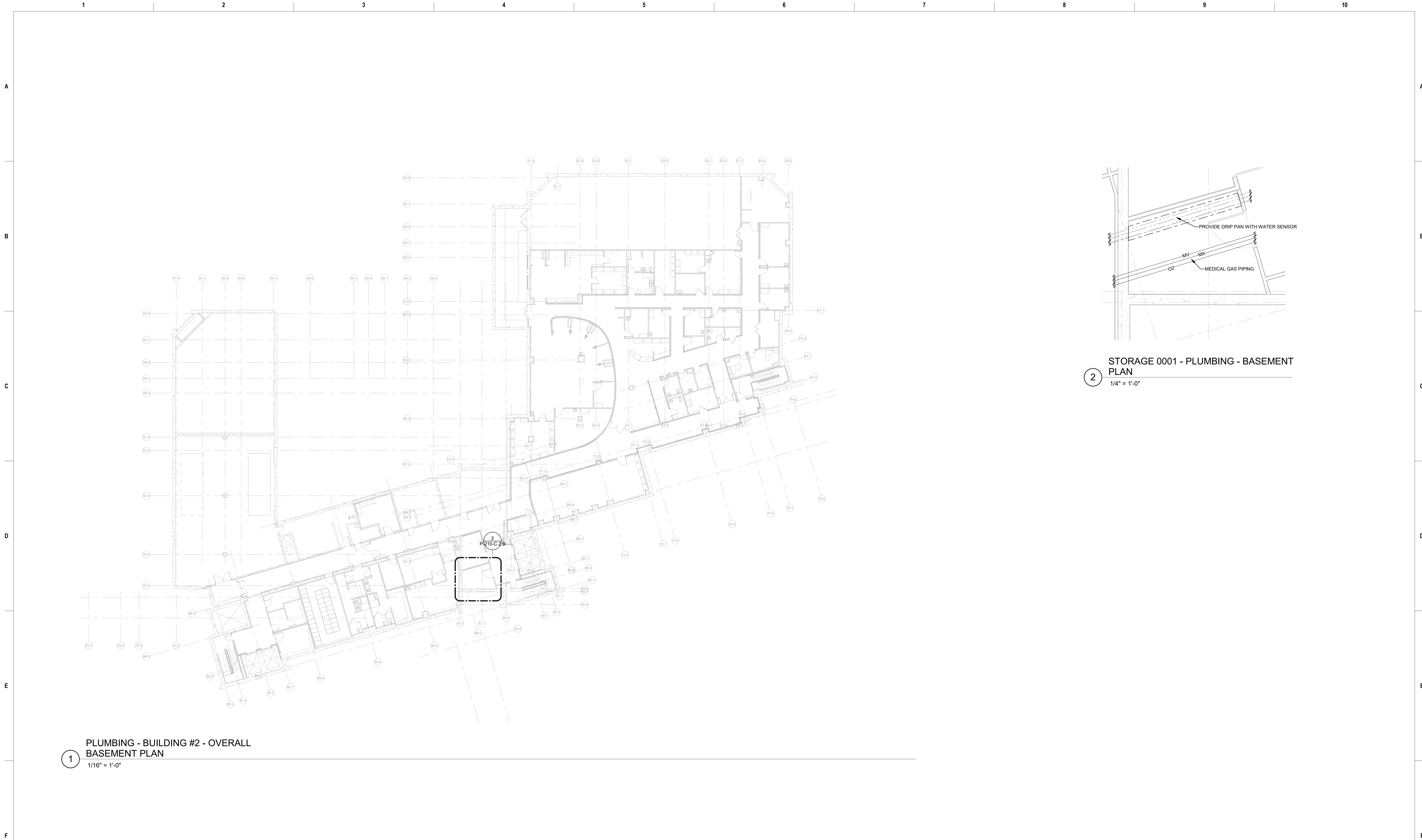
1 PLUMBING - BUILDING #1 - OVERALL NINTH FLOOR PLAN
1/16" = 1'-0"

2 STORAGE ROOM 916A - NINTH FLOOR PLAN - PLUMBING DEMOLITION
1/4" = 1'-0"

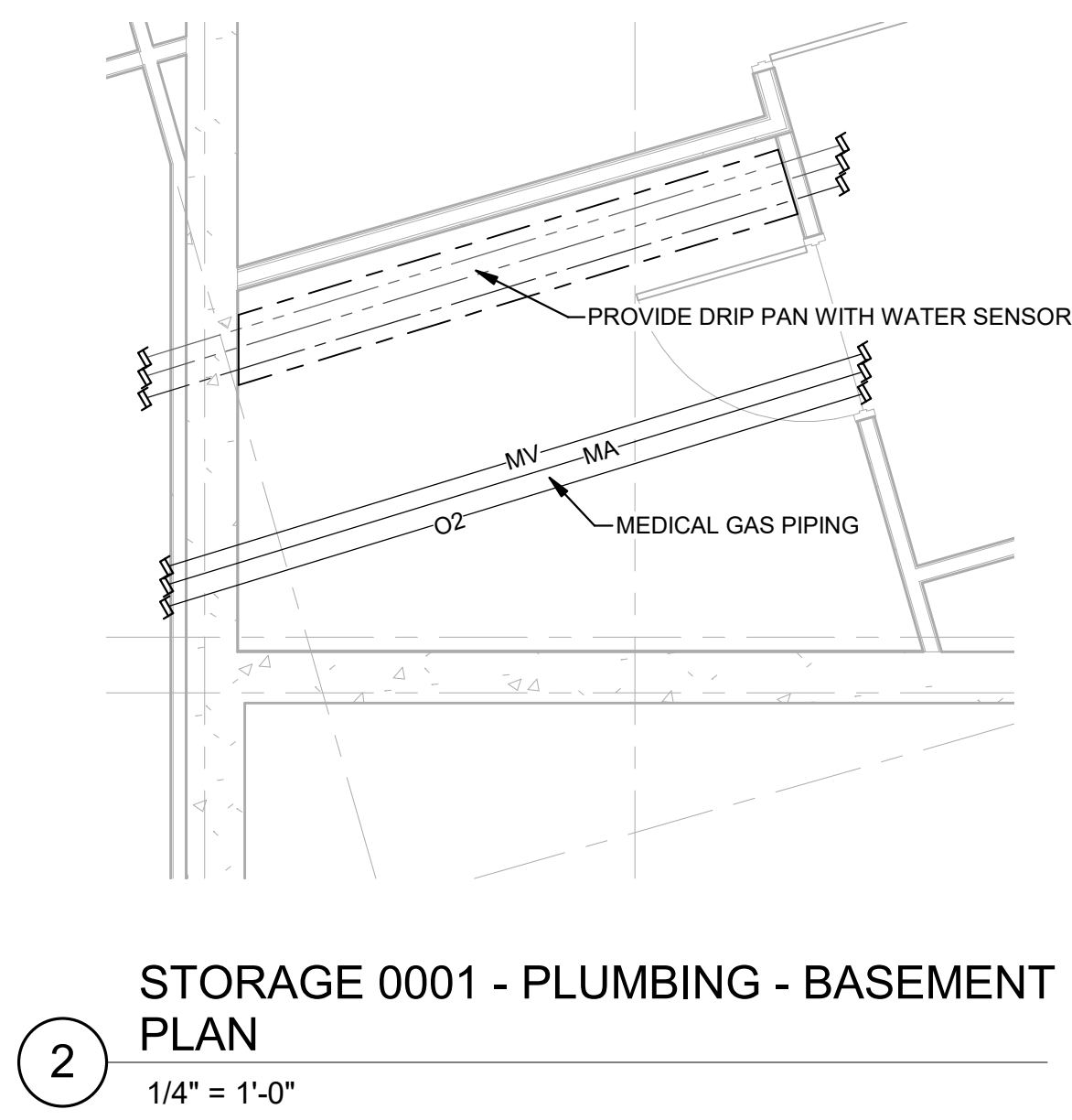


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Revisions:		Date:	CONSULTANT		ARCHITECT/ENGINEER OF RECORD				Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
			Ross & Baruzzini		 C O M P A N Y						PLUMBING NINTH FLOOR OVERALL & ENALRGED PLANS		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701	
			6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		8718 Botts Lane San Antonio, Texas 78217 www.hfscompany.com jbianco@hfscompany.com		Phone: (210) 816-4784 Fax: (210) 881-6808				Approved: Project Director		FULLY SPRINKLED		Location 3200 VINE ST. CINCINNATI, OH.		Building Number 1	
															Issue Date 04-MAY-2022		Checked JDB	
									 U.S. Department of Veterans Affairs									



1 PLUMBING - BUILDING #2 - OVERALL
BASEMENT PLAN
1/16" = 1'-0"



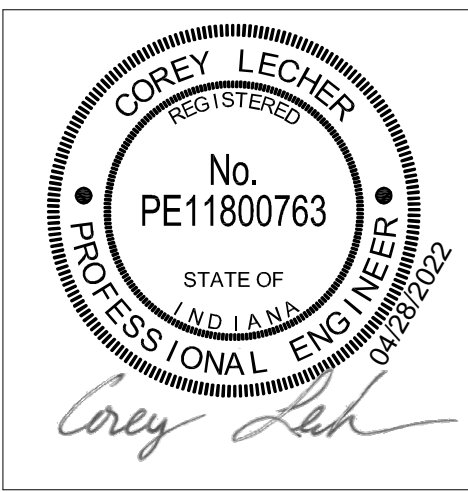
2 STORAGE 0001 - PLUMBING - BASEMENT
PLAN
1/4" = 1'-0"

4/29/2022 9:03:01 AM

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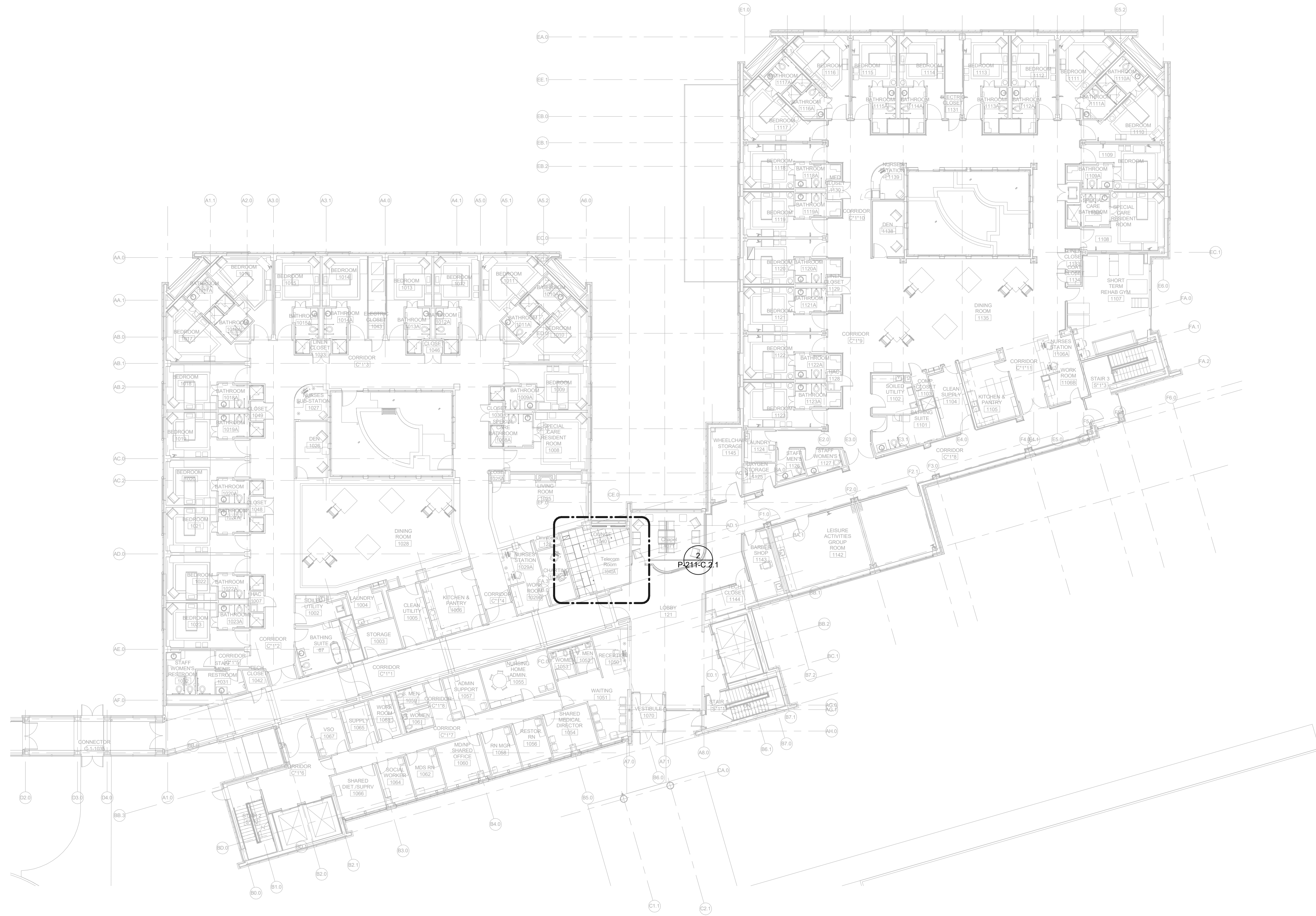
Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
PLUMBING BASEMENT OVERALL & ENLARGED PLANS
Approved: Project Director

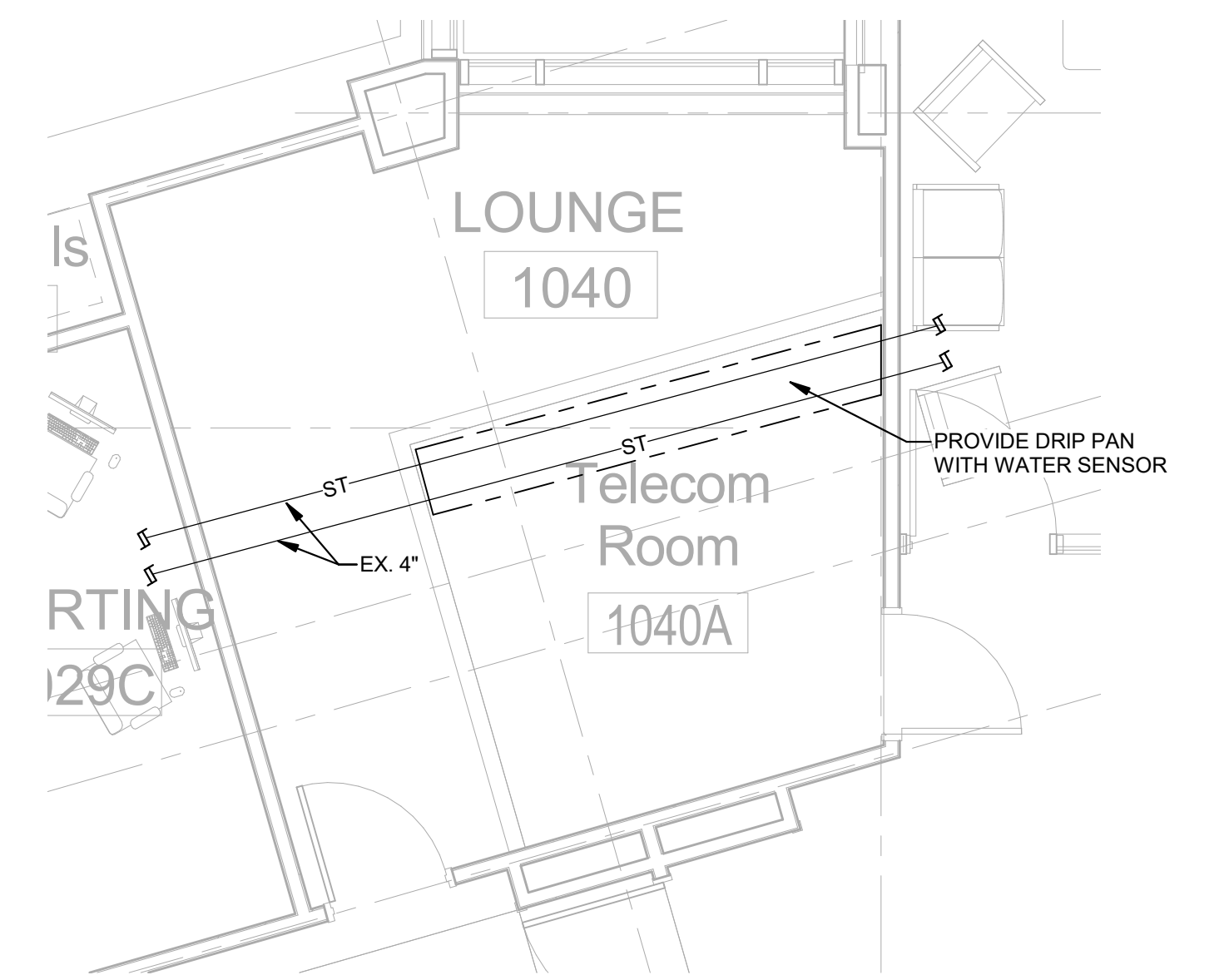
Phase
100% CONSTRUCTION DOCUMENTS
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Project Title
CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES
Location
3200 VINE ST. CINCINNATI, OH.
Issue Date
04-MAY-2022
Checked
JDB
Drawn
DDP

Project Number
539-21-701
Building Number
2
Drawing Number
P-210-C.2.B



1 PLUMBING - BUILDING #2 - OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"



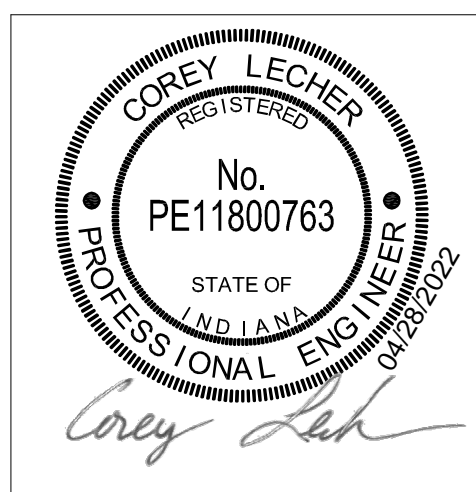
2 TELE ROOM 1040A - PLUMBING - FIRST FLOOR PLAN
1/4" = 1'-0"

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

Drawing Title
PLUMBING SECOND FLOOR OVERALL & ENLARGED PLANS
Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLED

Project Title
CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES
Location
3200 VINE ST. CINCINNATI, OH.
Issue Date
04-MAY-2022
Checked
JDB
Drawn
DDP

Project Number
539-21-701
Building Number
2
Drawing Number
P-211-C.2.1

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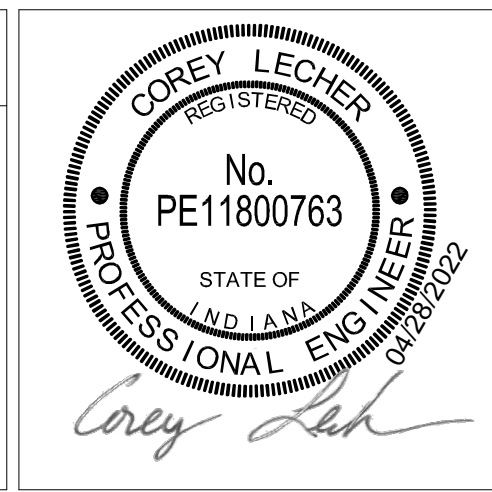
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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

PLUMBING SECOND FLOOR OVERALL & ENLARGED PLANS

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location
3200 VINE ST. CINCINNATI, OH.

Issue Date
04-MAY-2022

Checked
JDB

Drawn
DDP

Project Number
539-21-701

Building Number
8

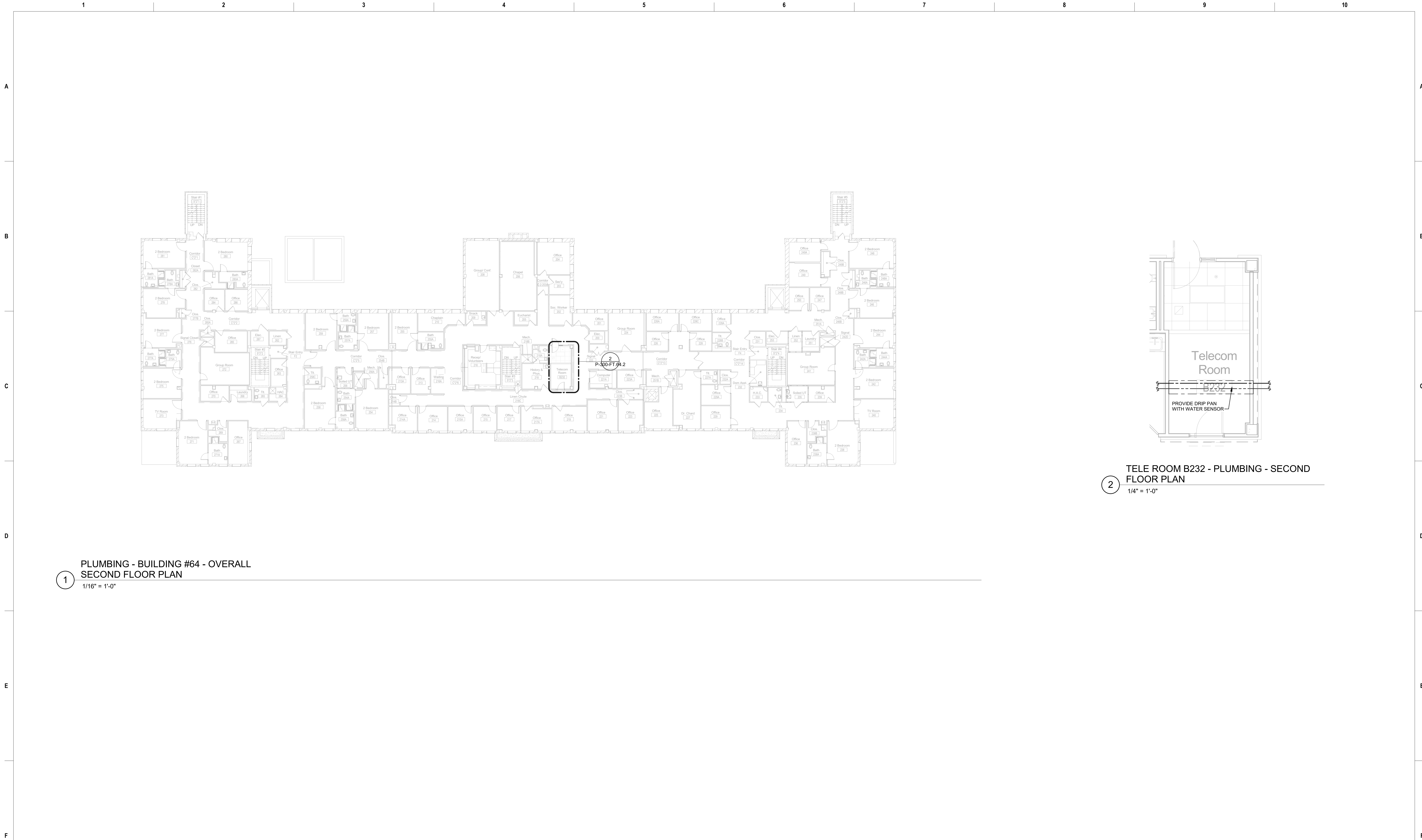
Drawing Number
P-240-C.8.2


$$1/16'' = 1'-0''$$

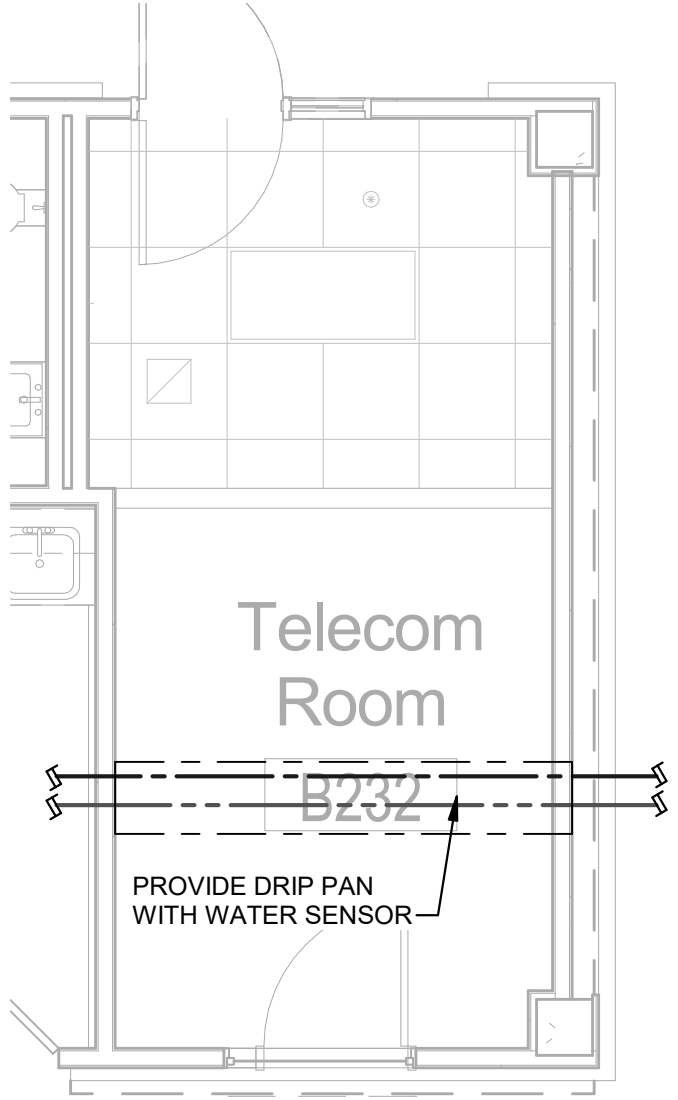

1/4" = 1'-0"

- A. ALL EXISTING WATER PIPING ABOVE THE HARD CEILING TO BE EITHER REMOVED IF NOT BEING USED, OR RELOCATED IF BEING USED. CONTRACTOR TO VERIFY EXACT AMOUNT OF WORK AFTER CEILING DEMOLITION.
- B. ALL WATER AND OTHER SERVICES BEING REMOVED SHALL BE REMOVED BACK TO ACTIVE MAIN.

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1 PLUMBING - BUILDING #64 - OVERALL
SECOND FLOOR PLAN
1/16" = 1'-0"

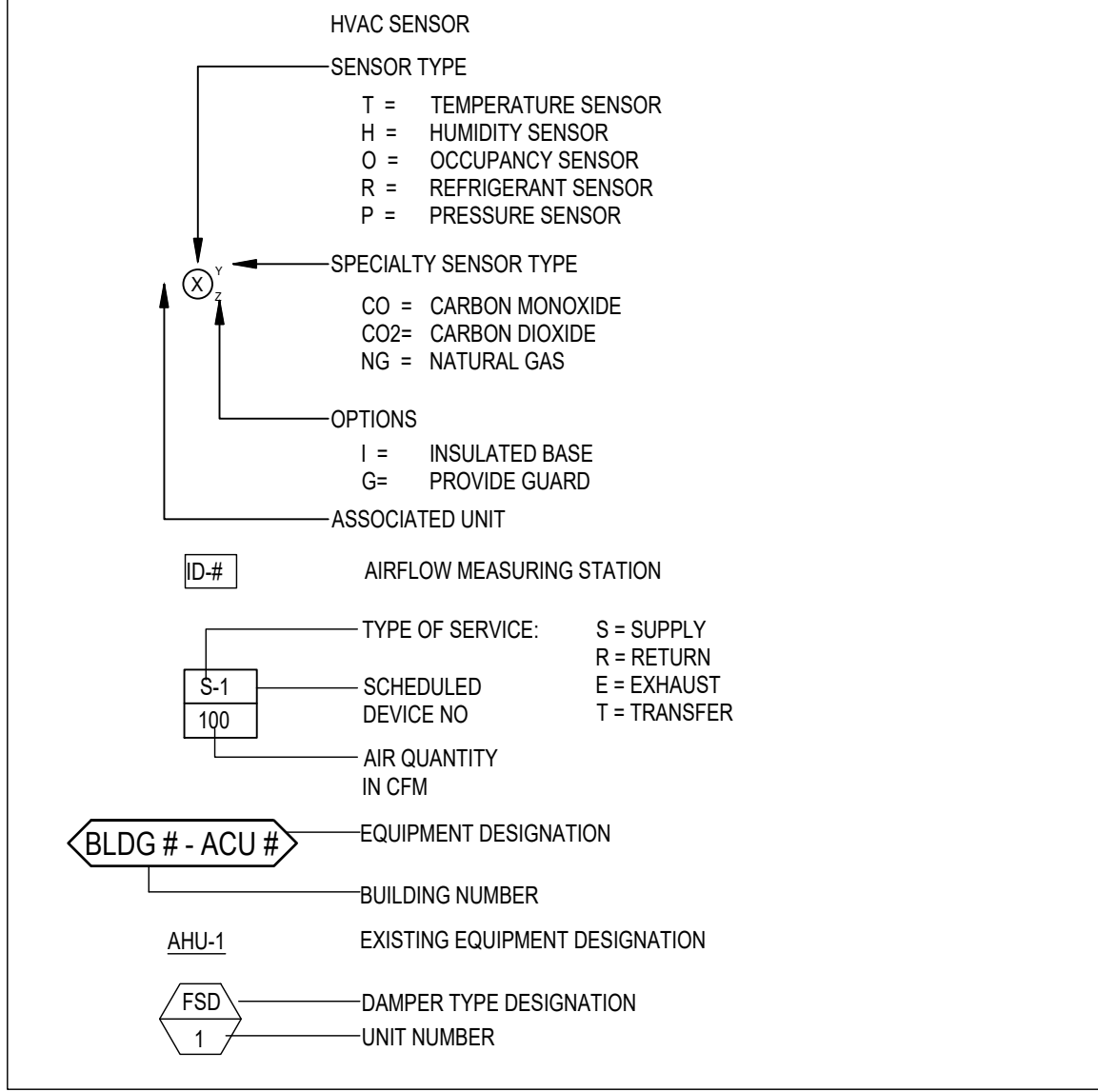


2 TELE ROOM B232 - PLUMBING - SECOND
FLOOR PLAN
1/4" = 1'-0"

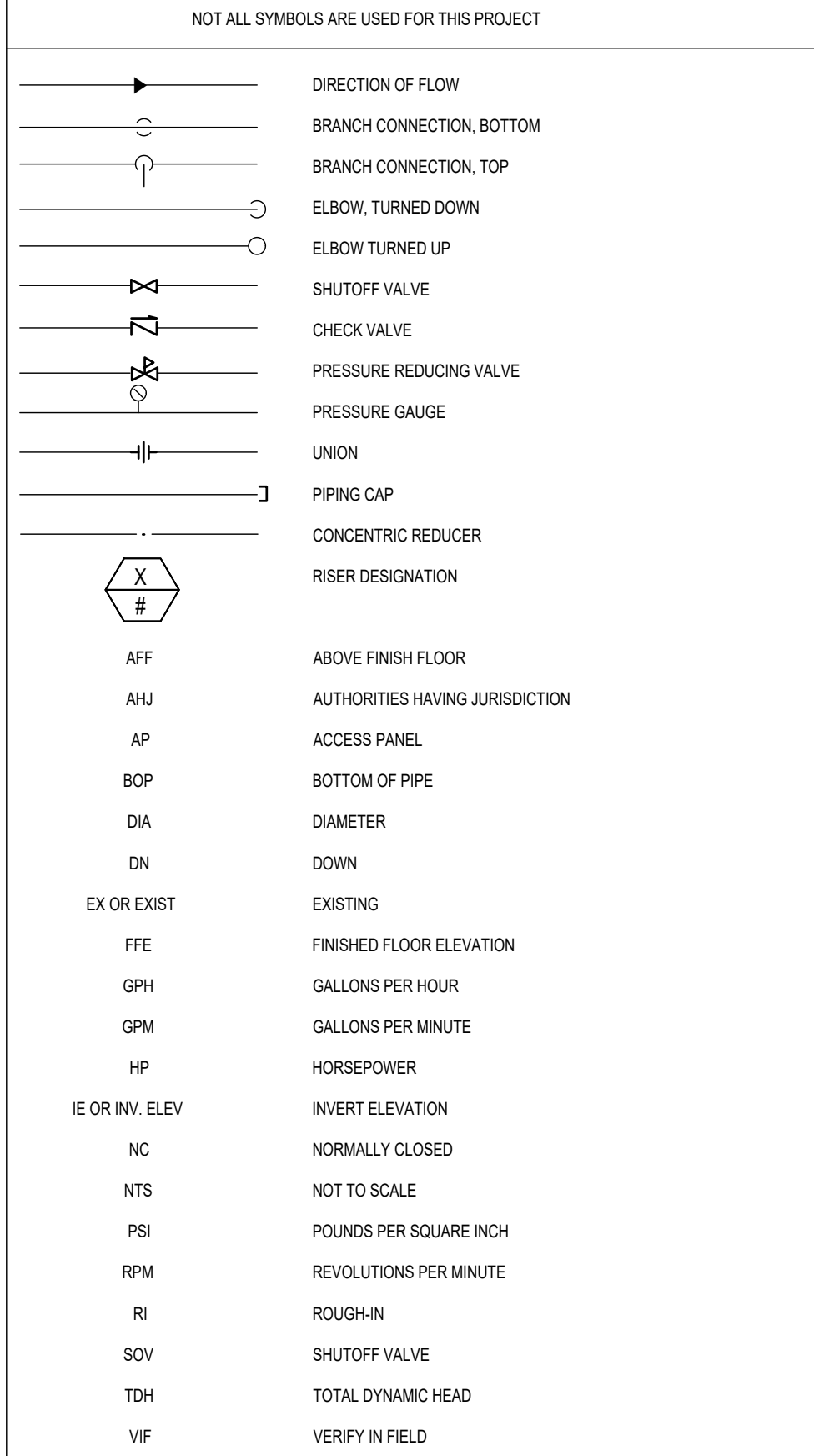
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Revisions:	Date:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD		Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number										
										PLUMBING SECOND FLOOR OVERALL & ENLARGED PLANS	100% CONSTRUCTION DOCUMENTS	CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES	539-21-701						
														Approved: Project Director	FULLY SPRINKLED	Location	Drawing Number		
																		3200 VINE ST. CINCINNATI, OH.	P-300-FT.64.2

MECHANICAL SYMBOLS



COMMON PIPING SYMBOLS & ABBREVIATIONS



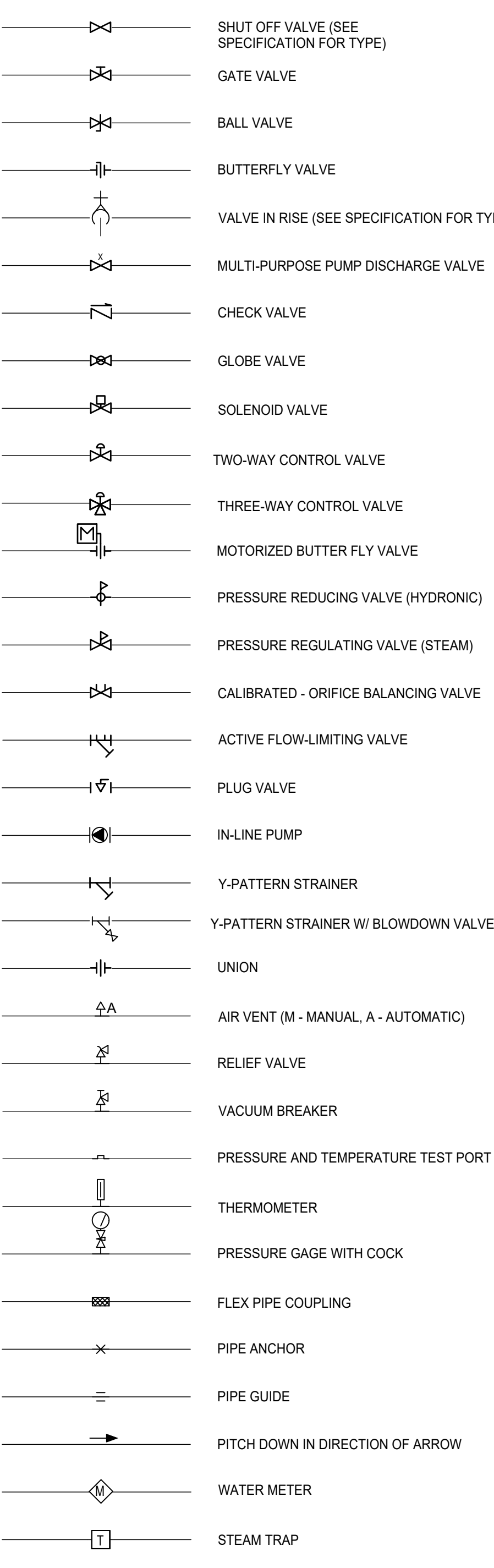
MECH MAIN GENERAL NOTES

- ALL ELBOWS, FITTINGS, ETC., IN PIPING AND DUCTWORK REQUIRED TO CLEAR ALL JOB OBSTRUCTIONS ARE NOT NECESSARILY INDICATED. ALL NECESSARY TRANSITIONS, FITTINGS AND OFFSETS ARE REQUIRED WHETHER SHOWN OR NOT.
- BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE MECHANICAL WORK, COORDINATION BETWEEN THE VARIOUS TRADES IS OF THE UTMOST IMPORTANCE.
- THE CONTRACTOR SHALL COORDINATE STAGING AND SCHEDULING WITH THE OWNER'S REPRESENTATIVE.
- EXISTING CONDITIONS ARE BASED ON INFORMATION OBTAINED FROM PREVIOUS CONSTRUCTION DOCUMENTS AND INFORMAL FIELD OBSERVATION AND SHALL NOT BE CONSTITUTED AS "AS BUILT." THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS BEFORE THE ONSET OF CONSTRUCTION.
- DEMOLISH ALL PIPING, DUCTWORK EQUIPMENT, ETC., SHOWN TO BE REMOVED, IN ITS ENTIRETY, INCLUDING ALL HANGERS AND SUPPORTS.
- WHERE CONTRACTOR IS REQUIRED TO CONCEAL NEW WORK, REMOVE OR MODIFY EXISTING CONSTRUCTION OR EQUIPMENT, OR ATTACH TO EXISTING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION AND MATERIALS TO MATCH CONDITIONS AT THE ONSET OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE EXISTING CEILINGS AND WALLS REQUIRED FOR INSTALLATION OF MECHANICAL SYSTEMS.
- THE OWNER SHALL MAINTAIN ALL SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES BY THIS CONTRACTOR.
- ALL WORK SHALL BE INSTALLED PER THE REFERENCE DETAILS, REGARDLESS OF WHETHER OR NOT THE DETAILS ARE CALLED OUT ON THE PLANS.
- THE CONTRACTOR SHALL VERIFY ALL REFRIGERANT PIPE SIZING AND ROUTINGS WITH THE EQUIPMENT MANUFACTURER. THE CONTRACTOR SHALL ALSO PROVIDE ALL REQUIRED REFRIGERANT ACCESSORIES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER FOR COMPLETE AND FULLY FUNCTIONAL SYSTEMS.
- DO NOT SCALE THE LOCATION OF HVAC CEILING ELEMENTS, SUCH AS AIR INLETS AND OUTLETS, FROM THE MASTER'S DRAWINGS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT HVAC CEILING ELEMENT LOCATIONS. REFLECTED CEILING PLANS GOVERN THE LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES. MESSAGES GOVERN TYPE, STYLE, AND SIZE OF DIFFUSERS, REGISTERS, AND GRILLES.
- ALL DUCTWORK SHALL COMPLY WITH "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," 3RD EDITION, SMACNA 2005, EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED. ANY PLAN REFERENCES TO "SMACNA FIGURE 1" REFERS TO THIS STANDARD. SEE SPECIFICATIONS FOR SCHEDULE OF DUCT PRESSURE CLASS AND SEAL CLASS.
- IN GENERAL, THE FINAL FLEX DUCT RUNOUT TO EACH DIFFUSER, REGISTER, OR GRILLE IS NOT SIZED ON PLANS. FLEX DUCT RUNOUT SIZE SHALL MATCH AIR OUTLET NECK SIZE, UNO.
- IT IS THE INTENT OF THESE DRAWINGS THAT A MANUAL BALANCING DAMPER BE PROVIDED AT EVERY INDIVIDUAL DUCTED CONNECTION TO AN AIR DEVICE, UNLESS A BALANCING DAMPER IS SCHEDULED TO BE FURNISHED WITH AIR DEVICE. VAV BOXES WITH SINGLE DIFFUSERS ARE NOT REQUIRED TO HAVE A BALANCING DAMPER. ALL NEW DUCTWORK SIZES SHOWN ON PLANS ARE CLEAR INCH DIMENSIONS. CONTRACTOR SHALL ADJUST SHEET METAL SIZES AS NECESSARY TO ACCOMMODATE INTERNAL DUCT LINER, IF SPECIFIED.
- ALL EXISTING TEMPERATURE CONTROLS THAT ARE BEING DEMOLISHED OR DISABLED AS WORK OF THIS CONTRACT SHALL BE COMPLETELY REMOVED FROM BUILDING.
- THE CONTRACTOR SHALL CONNECT THE NEW HVAC SYSTEM TO THE OWNER'S EXISTING BUILDING CONTROL SYSTEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL HAVE THE DOCUMENTS REVIEWED COMPLETELY BY A CERTIFIED BALANCING CONTRACTOR FOR THE INCLUSION OF THE NECESSARY ADDITIONAL AIR AND HYDROLOGIC SYSTEM BALANCING DEVICES NOT SHOWN IN THESE DOCUMENTS FOR COMPLETE HVAC SYSTEM BALANCING. REFER TO SPECIFICATION SECTION 230593 FOR CONSTRUCTION DOCUMENT EXAMINATION REPORT.
- IT SHOULD BE NOTED THAT SOME SYSTEMS (I.E. GENERAL AND ISOLATION EXHAUST) ARE REQUIRED TO BE BALANCED MORE THAN ONCE TO ASSURE DESIGN AIRFLOWS ARE PROVIDED.
- FOR ALL SUSPENDED HVAC EQUIPMENT THAT WEIGHS 31 LBS OR MORE, LOCATED IN OR ABOVE OCCUPIED SPACES, THE CONTRACTOR SHALL SUPPORT THE EQUIPMENT TO PREVENT IT FROM FALLING FROM OR THROUGH THE CEILING IN THE EVENT OF A TERRORIST ATTACK (EXPLOSION). THIS SHALL INCLUDE BUT IS NOT LIMITED TO ALL VAV BOXES, ETC. SUPPORTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW. SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF UFC 4-010-01, DOJ MINIMAL ANTI-TERRORISM STANDARDS FOR BUILDINGS.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO THE EXACT LOCATION OF DUCTWORK, PIPING AND EQUIPMENT FROM THE LOCATION INDICATED ON THESE DRAWINGS TO FIT ACTUAL JOB CONDITIONS.
- WHERE MECHANICAL WORK IS REQUIRED ABOVE CEILINGS, REMOVE AND REPLACE EXISTING CEILINGS AS REQUIRED.

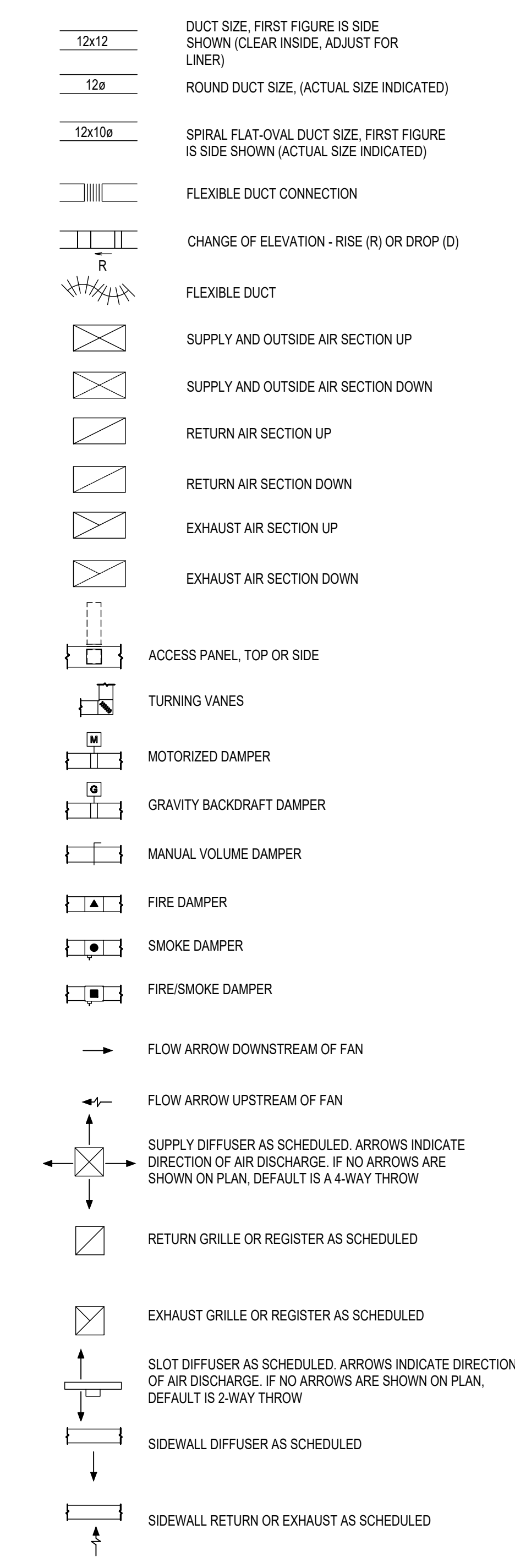
PIPE SYSTEM ABBREVIATIONS

BD	BLOW DOWN
CA	COMPRESSED AIR
CD	CONDENSATE (STEAM) DRAIN
CF	CHEMICAL FEED
CHWR	CHILLED HOT WATER RETURN
CHWS	CHILLED HOT WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	COLD WATER, DOMESTIC
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DRAIN
E	EQUALIZING LINE
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
G	NATURAL GAS
GLR	GLYCOL RETURN
GLS	GLYCOL SUPPLY
HG	REFRIGERANT HOT GAS
HPR	HIGH PRESSURE CONDENSATE RETURN (100 PSIG)
HPS	HIGH PRESSURE STEAM SUPPLY (100 PSIG)
HW	DOMESTIC HOT WATER
HWWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LFG	LIQUEFIED PETROLEUM GAS
LPR	LOW PRESSURE CONDENSATE RETURN (15 PSIG)
LPS	LOW PRESSURE STEAM SUPPLY (15 PSIG)
MRR	MEDIUM PRESSURE CONDENSATE RETURN (60 PSIG)
MPS	MEDIUM PRESSURE STEAM SUPPLY (60 PSIG)
MU	MAKE-UP WATER (NON-POTABLE)
PC	PUMPED CONDENSATE
PD	PUMP DISCHARGE
POWR	PRIMARY CHILLED WATER RETURN
POWS	PRIMARY CHILLED WATER SUPPLY
PHWR	PRIMARY HEATING WATER RETURN
PHWS	PRIMARY HEATING WATER SUPPLY
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RV	REFRIGERANT VENT
SCWR	SECONDARY CHILLED WATER RETURN
SCWS	SECONDARY CHILLED WATER SUPPLY
SHWR	SECONDARY HEATING WATER RETURN
SHWS	SECONDARY HEATING WATER SUPPLY
SRV	STEAM RELIEF VENT
V	VENT

PIPE LINE SYMBOLS



DUCT SYSTEM SYMBOLS



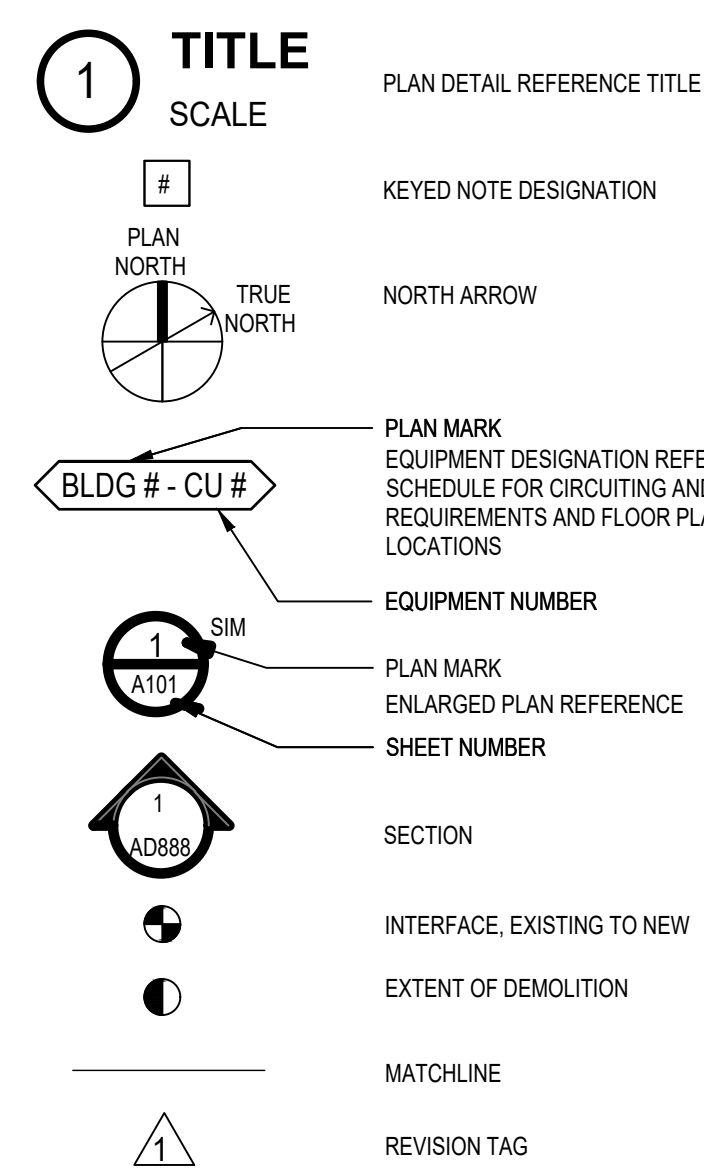
MECHANICAL ABBREVIATIONS

A	AIR OR AMP (PER CONTEXT)	JS	JOIST SPACE
ACC	ACCESSORIES	KW	KILOWATTS
AD	ACCESS DOOR	KL	LENGTH
AFF	ABOVE FINISHED FLOOR	LA	LEAVING AIR TEMPERATURE
AFS	AIR FLOW SWITCH	LB(S)	POUNDS
AHRI	AIR HANDLING, HEATING AND REFRIGERATION INSTITUTE	LRA	LINEAR FEET
AI	ANALOG SIGNAL INPUT	LS	LOCKED ROTOR AMPS
AIB	AMBIENT	LVL	LEVEL
AO	ANALOG SIGNAL OUTPUT	LWT	LEAVING WATER TEMPERATURE
AP	ACCESS PANEL	MAN	MANUAL
APD	AIR PRESSURE DROP	MANU	MANUFACTURER
APLV	APPLICATION PART LOAD VALUE	MAX	MAXIMUM
APPROX	APPROXIMATE	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
ARCH	ARCHITECTURE/ARCHITECT	MCA	MINIMUM CIRCUIT AMPS
AUX	AUXILIARY	MCC	MOTOR CONTROL CENTER
AV	AUTOMATIC VENT	MCH	MECHANICAL
AVG	AVERAGE	MERV	MINIMUM EFFICIENCY REPORTING VALUE (ASHRAE 52.2)
BDD	BACK DRAFT DAMPER	MFR	MINIMUM OR MINUTE (PER CONTEXT)
BFC	BELOW FINISHED CEILING	MIN	MINIMUM
BFP	BACKFLOW PREVENTER	MTD	MOUNTED
BHP	BRAKE HORSEPOWER	MTL	METAL
BI	BINARY SIGNAL INPUT	WV	MANUAL VENT
BMIS	BUILDING MANAGEMENT SYSTEM	NC	NORMALLY CLOSED OR NOISE CRITERIA (PER CONTEXT)
BO	BINARY SIGNAL OUTPUT	NIC	NOT IN CONTRACT
BOB	BOTTOM OF BEAM	NO	NORMALLY OPEN OR NUMBER (PER CONTEXT)
BOD	BOTTOM OF DUCT	NOM	NOMINAL
BOP	BOTTOM OF PIPE	NPLV	NON-STANDARD PART LOAD VALUE
BS	BEAM SPACE	NPSH	NET POSITIVE SUCTION HEAD
BTU	BRITISH THERMAL UNIT	NOT TO SCALE	
BTUH	BRITISH THERMAL UNITS PER HOUR	OA	OUTSIDE AIR
BWE	BAKED WHITE ENAMEL	OB	OPPOSED BLADE DAMPER
CAP	CAPACITY	OC	ON CENTER
CAV	CONSTANT AIR VOLUME	OD	OUTSIDE DIAMETER
CFH	CUBIC FEET PER HOUR	OT	OIL TRAP
CFM	CUBIC FEET PER MINUTE	PA	PIPE ANCHOR
CI	CAST IRON	PBD	PARALLEL BLADE DAMPER
CLG	COOLING DUCT (COLD DUCT)	PD	PRESSURE DROP
CLEAN OUT		PENTHUS	PENTHOUSE
COMP	COMPRESSOR	PH	PHASE
CONC	CONCRETE	PHC	PREHEAT COIL
COND	CONDENSATE	PLUMB	PLUMBING
CONN	CONNECTION	PNEU	PNEUMATIC
CORR	CORRIDOR	PHS	POUNDS PER HOUR
CV	CONTROL VALVE	PI	PRESSURE
D	DEPTH	PIES	PRESSURE
DB	DRY BULB	PHS	POUNDS PER SQUARE INCH
DBA	A-WEIGHTED DECIBELS	PSIA	POUNDS PER SQUARE INCH-ABSOLUTE
DEFL	DEFLECTION	PSIG	POUNDS PER SQUARE INCH GAUGE
DEG	DEGREES	QTY	QUANTITY
DEG F	DEGREES FAHRENHEIT	RA	RETURN AIR
DES	DESIGN	RAD	RADIATED
DIA	DIAMETER	RD	ROOF DRAIN
DIM	DIMENSION	REFR	REFRIGERANT
DISCH	DISCHARGE	REQ	REQUIRED
DIV	DIVISION	RH	RELATIVE HUMIDITY
DN	DOWN	RPM	REVOLUTIONS PER MINUTE
DP	DIFFERENTIAL PRESSURE SENSOR	SA	SUPPLY AIR
DPS	DIFFERENTIAL PRESSURE SWITCH	SAN	SANITARY
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	SECN	SECTION
DTL	DETAIL	SEER	SEASONAL ENERGY EFFICIENCY RATIO
DWG(S)	DRAWING(S)	SENS	SENSIBLE
E	EXHAUST AIR OR EACH (PER CONTEXT)	SECT	SECTION
EAT	ENTERING AIR TEMPERATURE	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EER	ENERGY EFFICIENT RATIO	SH	SHOULDER
EFF	EFFICIENCY	SHT	SHEET
ELEV	ELEVATION	SND	SOUND
EQ	EQUAL	SOL	SOLENOID
ESP	EXTERNAL STATIC PRESSURE	SP	STATIC PRESSURE
EWB	ENTERING AIR WET BULB TEMPERATURE	SPD	STATIC PRESSURE DIFFERENTIAL
EWT	ENTERING WATER TEMPERATURE	SPT	STATIC PRESSURE TRANSMITTER
EXH	EXHAUST	SQ	SQUARE
EXIST, EX	EXISTING	SST	STAINLESS STEEL
EXT	EXTERNAL	STL	STEEL
F&T	FLOAT AND THERMOSTATIC	STM	STEAM
FC	FLEXIBLE CONNECTION	TP	TEMPERATURE AND PRESSURE
FD	FLOOR DRAIN	TPC	TEMPERATURE CONTROL
FDC	FIRE DEPARTMENT CONNECTION	TD	THERMODYNAMIC OR TEMPERATURE DIFFERENTIAL (PER CONTEXT)
FIN	FINISHED	TDM	TOTAL DYNAMIC HEAD
FLR	FLOOR	TEMP	TEMPERATURE
FPM	FPM PER FOOT	TOT	TOTAL
FS	FEET PER MINUTE	TPD	TOTAL PRESSURE DROP
FT-HD	FEET IN FEET	TSP	TOTAL STATIC PRESSURE
GA	GAUGE	TYP	TYPICAL
GAL	GALLONS	UC	UNDERCUT DOOR
GALV	GALVANIZED	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
GPH	GALLONS PER HOUR	V	VOLTS
GPM	GALLONS PER MINUTE	VAC	VACUUM
HP	HORSEPOWER	VD	VOLUME DAMPER (MANUAL)
H	HEAD	VEL	VELOCITY
HD	HOSE END VALVE	VERT	VERTICAL
HEV	HORSE END VALVE	VFD	VARIABLE FREQUENCY DRIVE
HORIZ	HORIZONTAL	VOL	VOLUME
HP	HORSEPOWER	VTR	VENT THRU ROOF
HR	HOUR	W	WATT OR WIDTH (PER CONTEXT)
HTG	HEATING DUCT (HOT DECK)	W	WITH
HVAC	HEATING, VENTILATING & AIR CONDITIONING	WO	WITHOUT
HW	HOT WATER	WB	WATER COLUMN
HZ	HERTZ	WC	WATER COLUMN
IB	INVERTED BUCKET	WG	WATER GAUGE
IE	INVERT ELEVATION	WPD	WATER PRESSURE DIFFERENTIAL
IN	INCHES	WT	WEIGHT
INDIC	INDICATOR		
IPLV	INTEGRATED PART-LOAD VALUE		
ISP	INTERNAL STATIC PRESSURE		

MECH EQUIPMENT DESIGNATION

MECH	EQUIPMENT DESIGNATION
AC	AIR CURTAIN
ACC	AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
ACV	AIR CONTROL VALVE
AF	AIR FILTER
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
ATU	AIR TERMINAL UNIT
B	BLOWER
BCU	BLOWER COIL UNIT
BS	BAKET STRAINER
BT	BUFFER TANK
CAV	CONSTANT AIR VOLUME
CC	CHILLED BEAM
CC	COOLING COIL
CB	CHEMICAL FEED PUMP
CH	CHILLER
COND	CONDENSING UNIT
CP	CONDENSER WATER PUMP
CRP	COMPUTER ROOM AIR CONDITIONING UNIT
CSC	CONDENSATE RETURN PUMP
CRC	CLEAN STEAM GENERATOR
CT	COOLING TOWER
CTF	COOLING TOWER FILTER
CU	CONDENSING UNIT
CUR	CABINET UNIT HEATER
CVR	CONNECTOR
CWP	CHILLED WATER PUMP
DC	DEAERATING FEEDWATER HEATER
DFH	DESSICANT DEHUMIDIFICATION UNIT
DM	DUCT MOUNTED COIL
EAV	EXHAUST AIR VALVE
EF	EXHAUST FAN
EJ	EXPANSION JOINT
OB	OPPOSED BLADE DAMPER
ON	ON CENTER
OD	OUTSIDE DIAMETER
OT	OIL TRAP
PA	PIPE ANCHOR
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP
PENTH	PENTHOUSE
PH	PHASE
PHC	PREHEAT COIL
PLUMB	PLUMBING
PNEU	PNEUMATIC
PHS	POUNDS PER HOUR
PI	PRESSURE
PIES	PRESSURE
PHS	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH-ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAD	RADIATED
RD	ROOF DRAIN
REFR	REFRIGERANT
REQ	REQUIRED
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAN	SANITARY
SECN	SECTION
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
SECT	SECTION
SH	SHOULDER
SHT	SHEET
SND	SOUND
SOL	SOLENOID
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DIFFERENTIAL
SPT	STATIC PRESSURE TRANSMITTER
SQ	SQUARE
SST	STAINLESS STEEL
STL	STEEL
STM	STEAM
TP	TEMPERATURE AND PRESSURE
TPC	TEMPERATURE CONTROL
TD	THERMODYNAMIC OR TEMPERATURE DIFFERENTIAL (PER CONTEXT)
TDM	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TOT	TOTAL
TPD	TOTAL PRESSURE DROP
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT DOOR
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAC	VACUUM
VD	VOLUME DAMPER (MANUAL)
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THRU ROOF
W	WATT OR WIDTH (PER CONTEXT)
W	WITH
WO	WITHOUT
WB	WATER COLUMN
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DIFFERENTIAL
WT	WEIGHT

DRAWING REFERENCES



LINE TYPE LEGEND

---	EXISTING TO REMAIN OR NEW WORK BY OTHERS (LIGHT, SOLID LINE)
---	NEW WORK BY THIS CONTRACTOR (DARK, SOLID LINE)
---	EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK, DASHED LINE, DEMOLITION PLANS)
---	NEW WORK BY THIS CONTRACTOR TO BE INSTALLED UNDERGROUND, OR BELOW FLOOR (DARK, LONG DASHED LINE)

Revisions:	Date:

CONSULTANT

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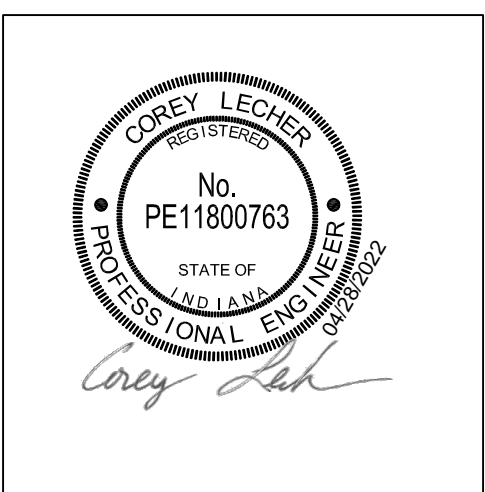
PROJECT MANAGEMENT

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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

MECHANICAL SYMBOLS & ABBREVIATIONS

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location
3200 VINE ST., CINCINNATI, OH

Issue Date
04-MAY-2022

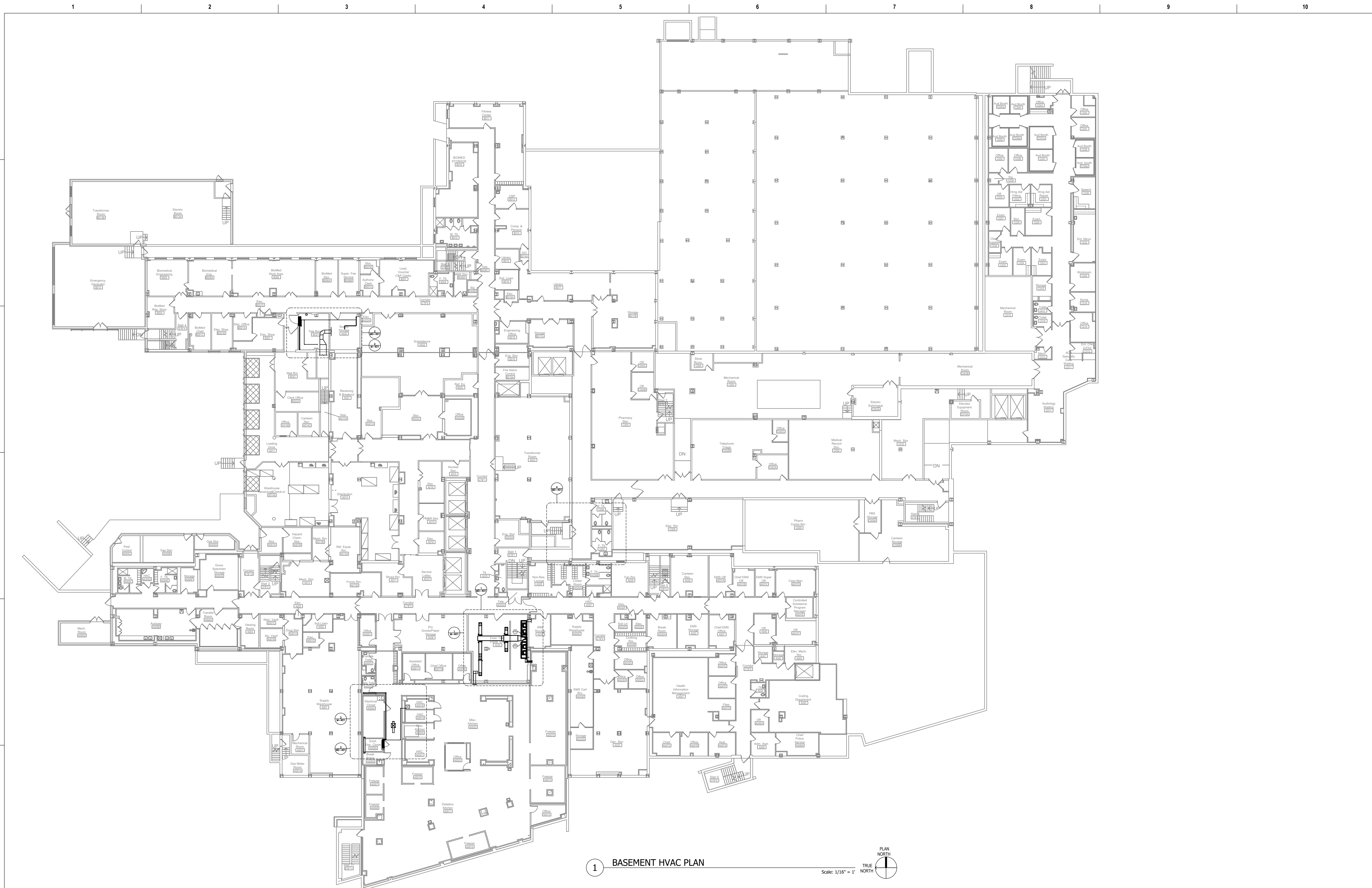
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CL / KW

Drawing Number
M-000

Project Number
539-21-701

Building Number
N/A

Drawing Number
M-000



Revisions:	Date:

CONSULTANT

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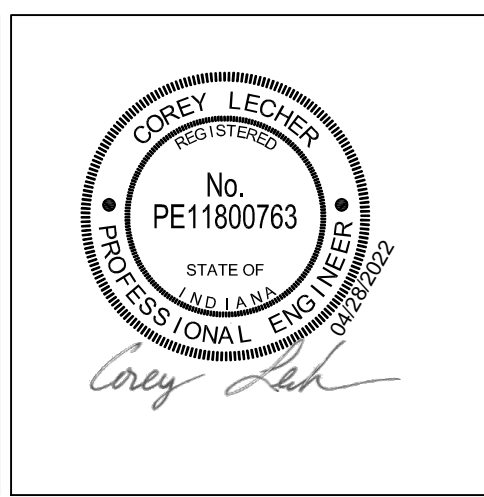
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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

BASEMENT OVERALL HVAC NEW WORK PLAN

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location
3200 VINE ST., CINCINNATI, OH

Issue Date
04-MAY-2022

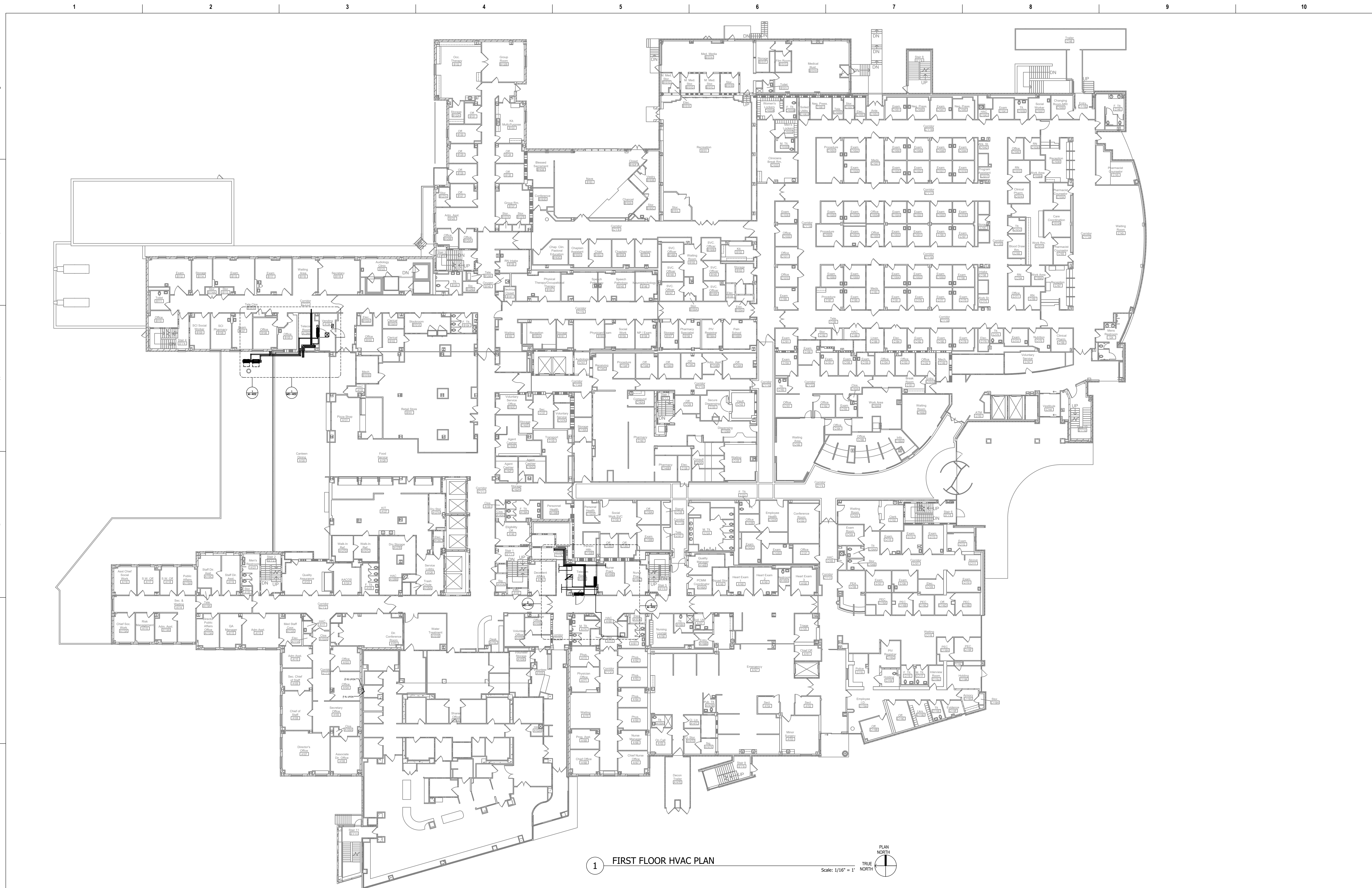
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Drawn
CL / KW

Project Number
539-21-701

Building Number
1

Drawing Number
M-101-C.1.B



1 FIRST FLOOR HVAC PLAN

Scale: 1/16" = 1'



Revisions:	Date:

CONSULTANT

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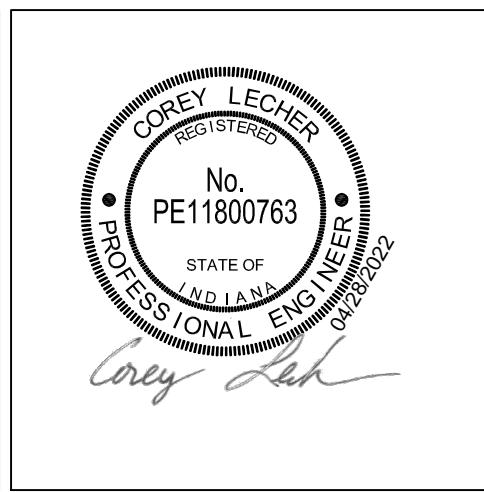
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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

FIRST FLOOR OVERALL HVAC NEW WORK PLAN

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location

3200 VINE ST., CINCINNATI, OH

Issue Date

04-MAY-2022

Checked

Drawn

CL / KW

Project Number

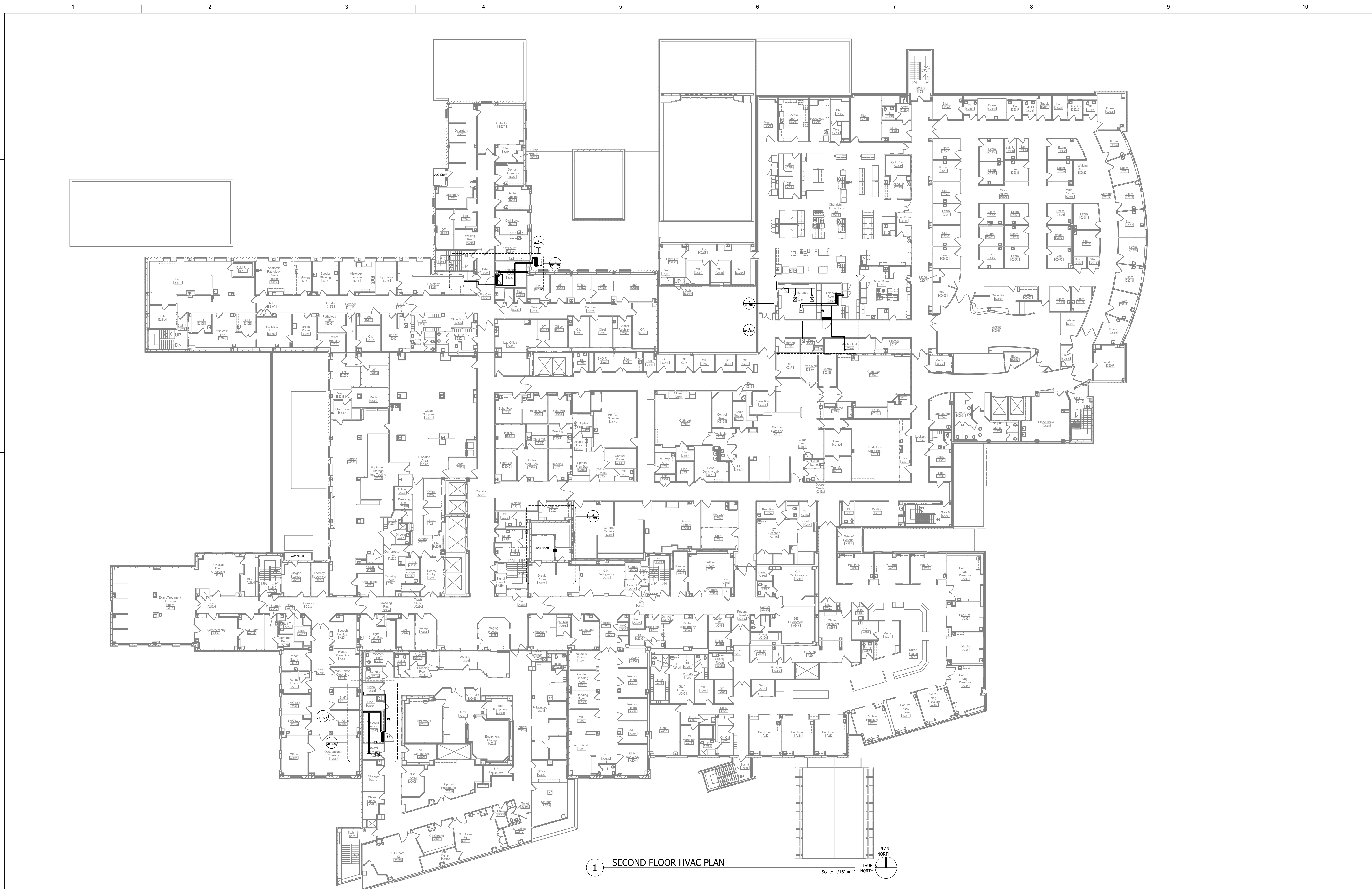
539-21-701

Building Number

1

Drawing Number

M-102-C.1.1



Revisions:	Date:

CONSULTANT

Ross & Baruzzini

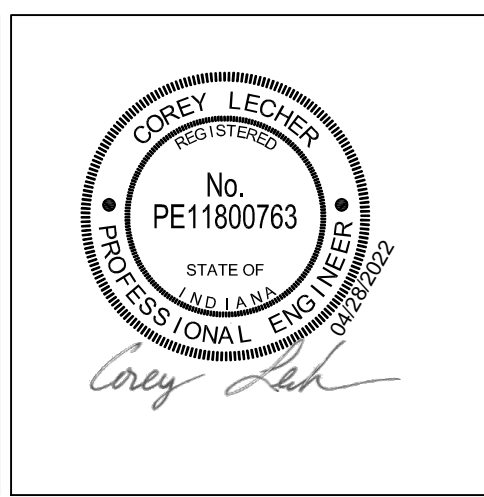
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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

**SECOND FLOOR OVERALL HVAC
NEW WORK PLAN**

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

**CINCINNATI VAMC EHRM
INFRASTRUCTURE UPGRADES**

Location
3200 VINE ST., CINCINNATI, OH

Issue Date
04-MAY-2022

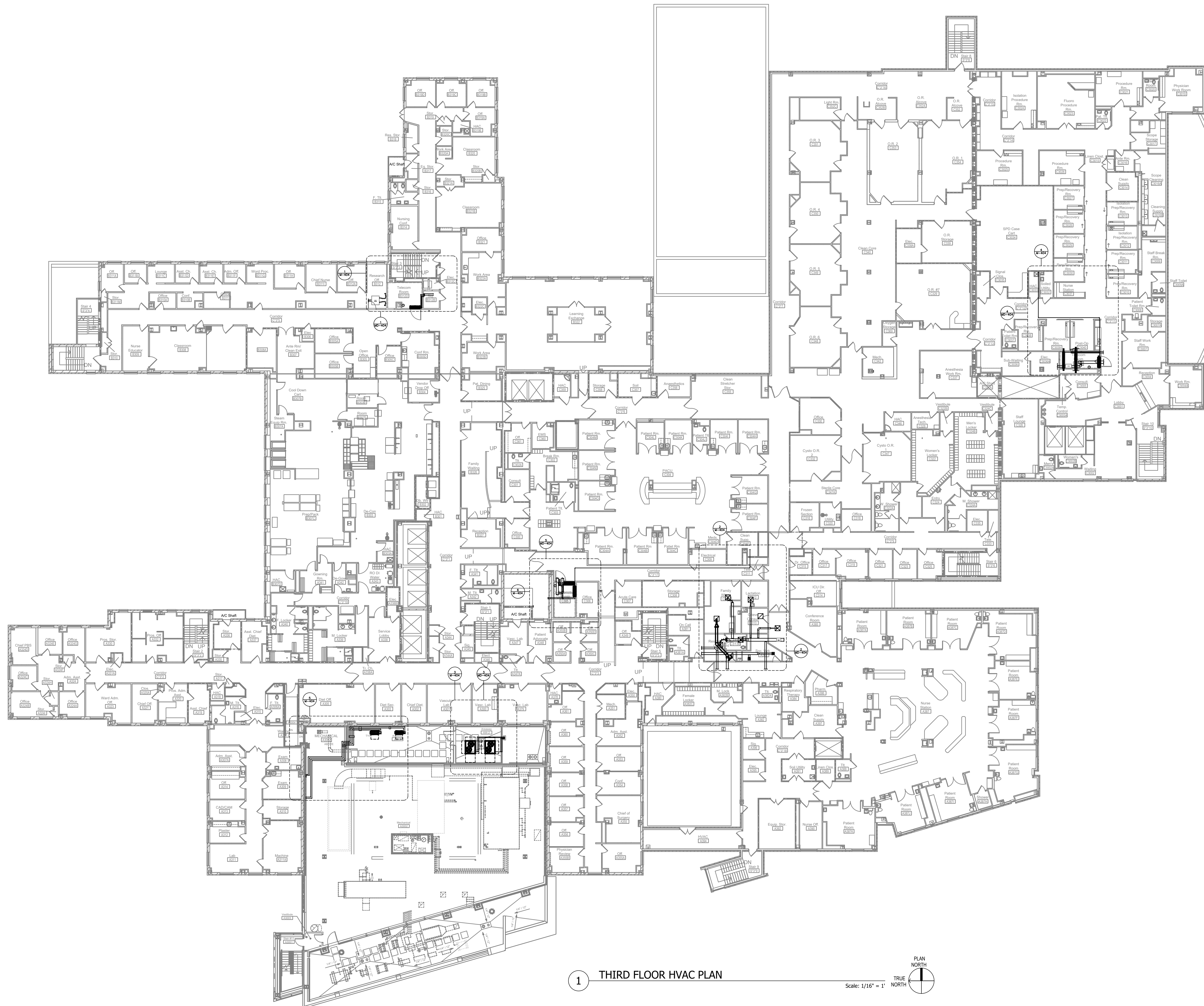
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Drawn
CL / KW

Project Number
539-21-701

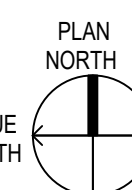
Building Number
1

Drawing Number
M-103-C.1.2



1 THIRD FLOOR HVAC PLAN

Scale: 1/16" = 1'



Revisions:	Date:

CONSULTANT

Ross & Baruzzini

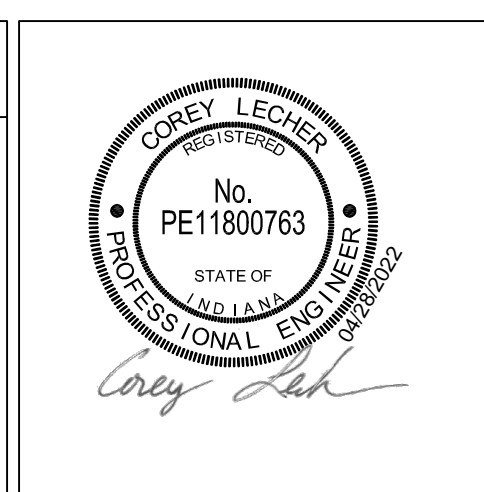
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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

THIRD FLOOR OVERALL HVAC NEW WORK PLAN

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location

3200 VINE ST., CINCINNATI, OH

Issue Date

04-MAY-2022

Checked

Drawn

CL / KW

Project Number

539-21-701

Building Number

1

Drawing Number

M-104-C.1.3



GENERAL NOTES

- ALL EXISTING PIPING TO REMAIN IN A NEW TELECOM ROOM SHALL HAVE A CATCH PAN BELOW THE ENTIRE LENGTH OF PIPE PER DETAIL 1 ON SHEET M-500.
- ALL NEW PIPING PENETRATIONS THROUGH FLOORS OR ROOFS SHOULD COORDINATE WITH STRUCTURAL. PROVIDE A SEAL AROUND NEW PENETRATION.
- LOCATE BOTTOM OF ACUs APPROXIMATELY 1'-0" ABOVE TOP OF DOOR FRAME. COORDINATE FINAL ACU INSTALLATION HEIGHTS WITH OTHER TRADES.
- REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.
- REFRIGERANT LINE SIZES AND LENGTHS TO BE CONFIRMED BY THE CONTRACTOR FOR ACTUAL EQUIPMENT BEING PROVIDED.
- CONTRACTOR TO COORDINATE LOCATION AND MOUNTING OF MAG LOCK AND DOOR SECURITY PANEL WITH THE MECHANICAL EQUIPMENT IN THE SPACE.
- WHERE CONDENSATE PIPING TERMINATES, THE PIPING IS TO BE AIR-GAPPED TO DRAIN.

KEYED NOTES

- ROUTE REFRIGERANT DOWN TO FOURTH FLOOR. SEE M-405-C.1.4 FOR CONTINUATION.

Revisions:	Date:

CONSULTANT

Ross & Baruzzini

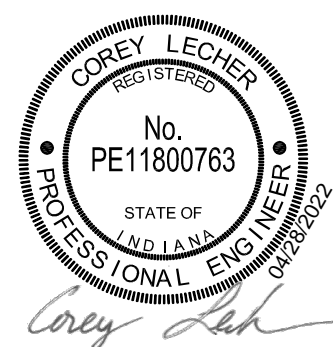
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Construction
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VA U.S. Department
of Veterans Affairs

Drawing Title

FLOOR PLAN PARTIAL - FIFTH FLOOR

Approved: Project Director

Phase

100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM
INFRASTRUCTURE UPGRADES

Location
3200 VINE ST., CINCINNATI, OH

Issue Date
04-MAY-2022

Checked

Drawn
CL / KW

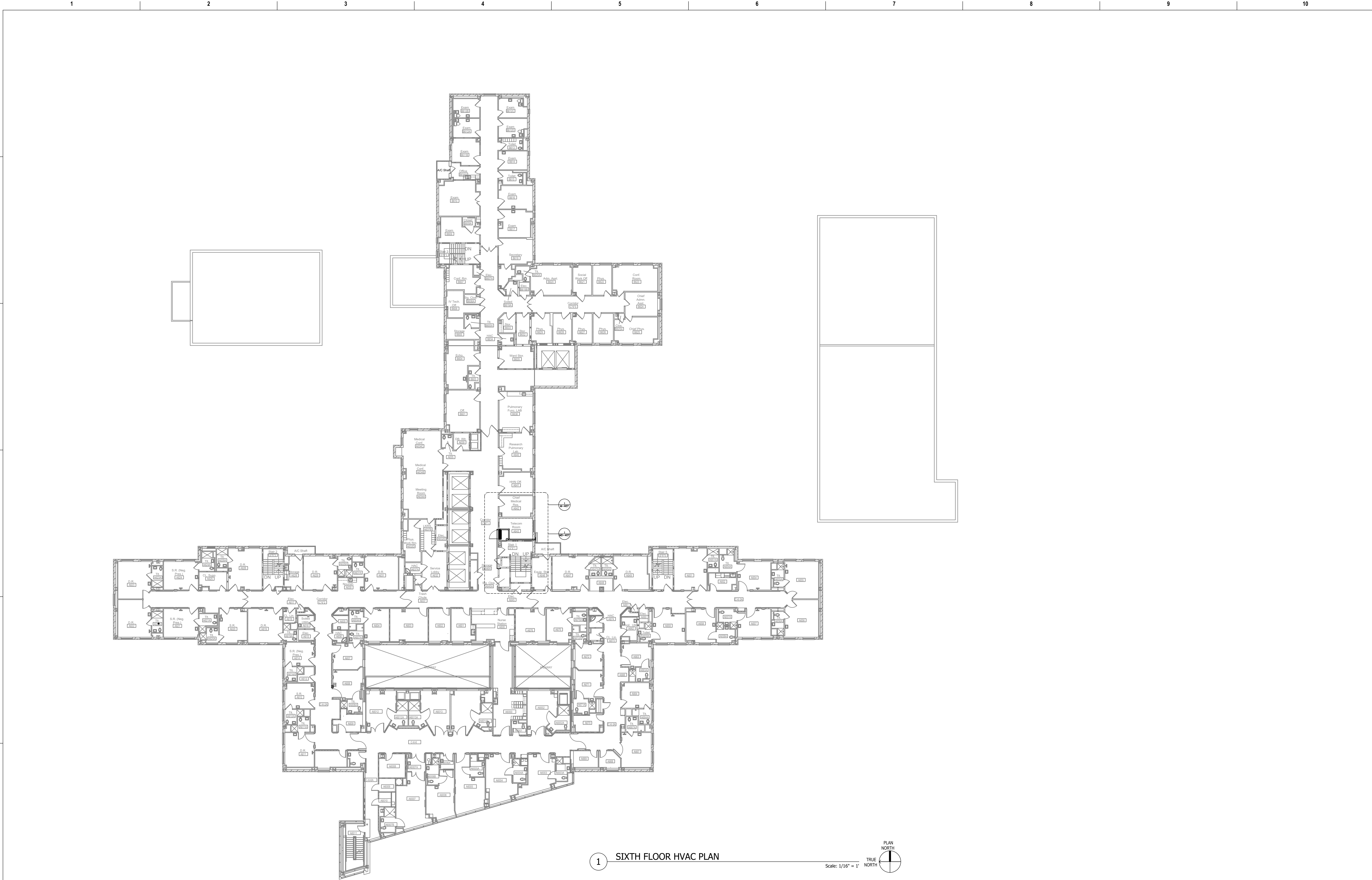
Project Number

539-21-701

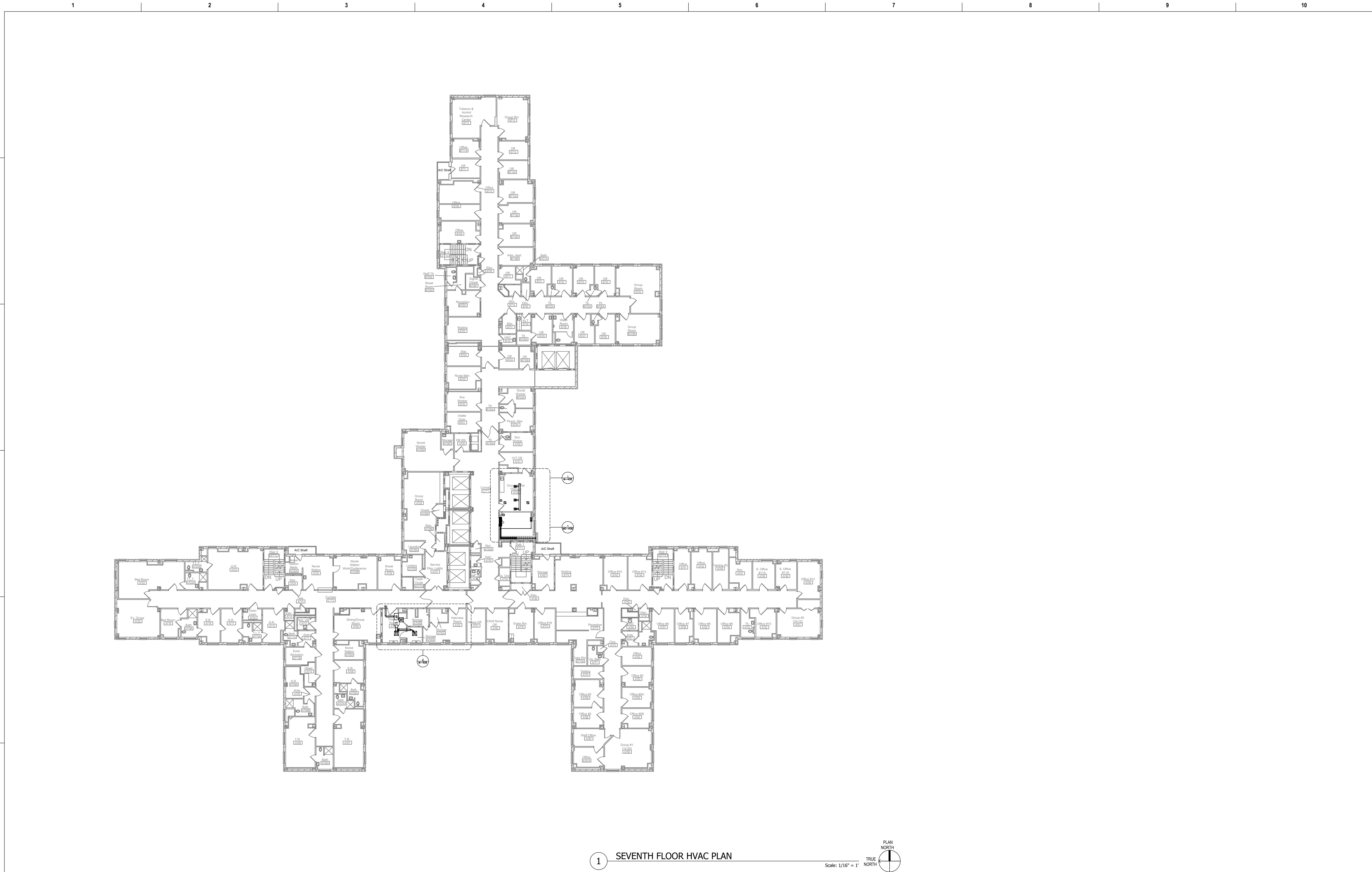
Building Number
1

Drawing Number

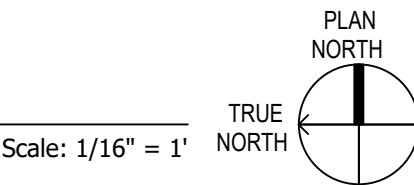
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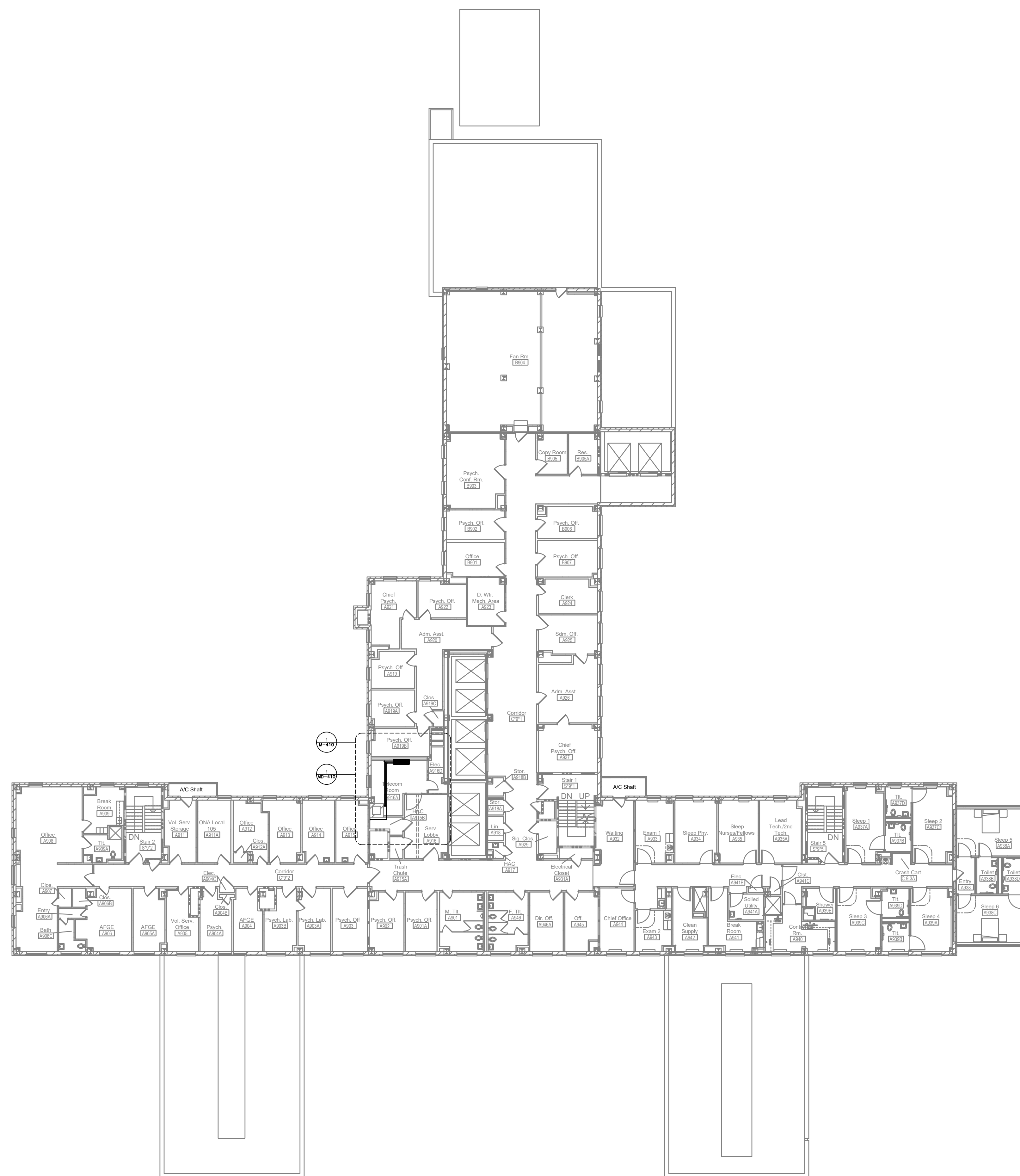
Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT		Drawing Title		Phase		Project Title		Project Number	
			Ross & Baruzzini 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		HFS C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com		SIXTH FLOOR OVERALL HVAC NEW WORK PLAN		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701	
							Approved: Project Director		FULLY SPRINKLERED		Location 3200 VINE ST., CINCINNATI, OH		Building Number 1	
											Issue Date 04-MAY-2022		Drawing Number M-107-C.1.6	
											Checked		Drawn CL / KW	



1 SEVENTH FLOOR HVAC PLAN

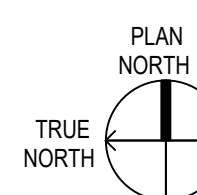





Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT		Drawing Title		Phase		Project Title		Project Number	
			Ross & Baruzzini		HFS		SEVENTH FLOOR OVERALL HVAC		100% CONSTRUCTION		CINCINNATI VAMC EHRM		539-21-701	
			6 SOUTH OLD ORCHARD		C O M P A N Y		NEW WORK PLAN		DOCUMENTS		INFRASTRUCTURE UPGRADES		Building Number	
			WEBSTER GROVES, MO. 63119		8718 Botts Lane		Approved: Project Director		FULLY SPRINKLERED		3200 VINE ST., CINCINNATI, OH		1	
			T: 314.918.8383		Phone: (210) 816-4784						Issue Date		Checked	
			F: 314.918.1766		Fax: (210) 851-6808						04-MAY-2022		Drawn	
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					jbianco@hfscorporation.com								M-108-C.1.7	

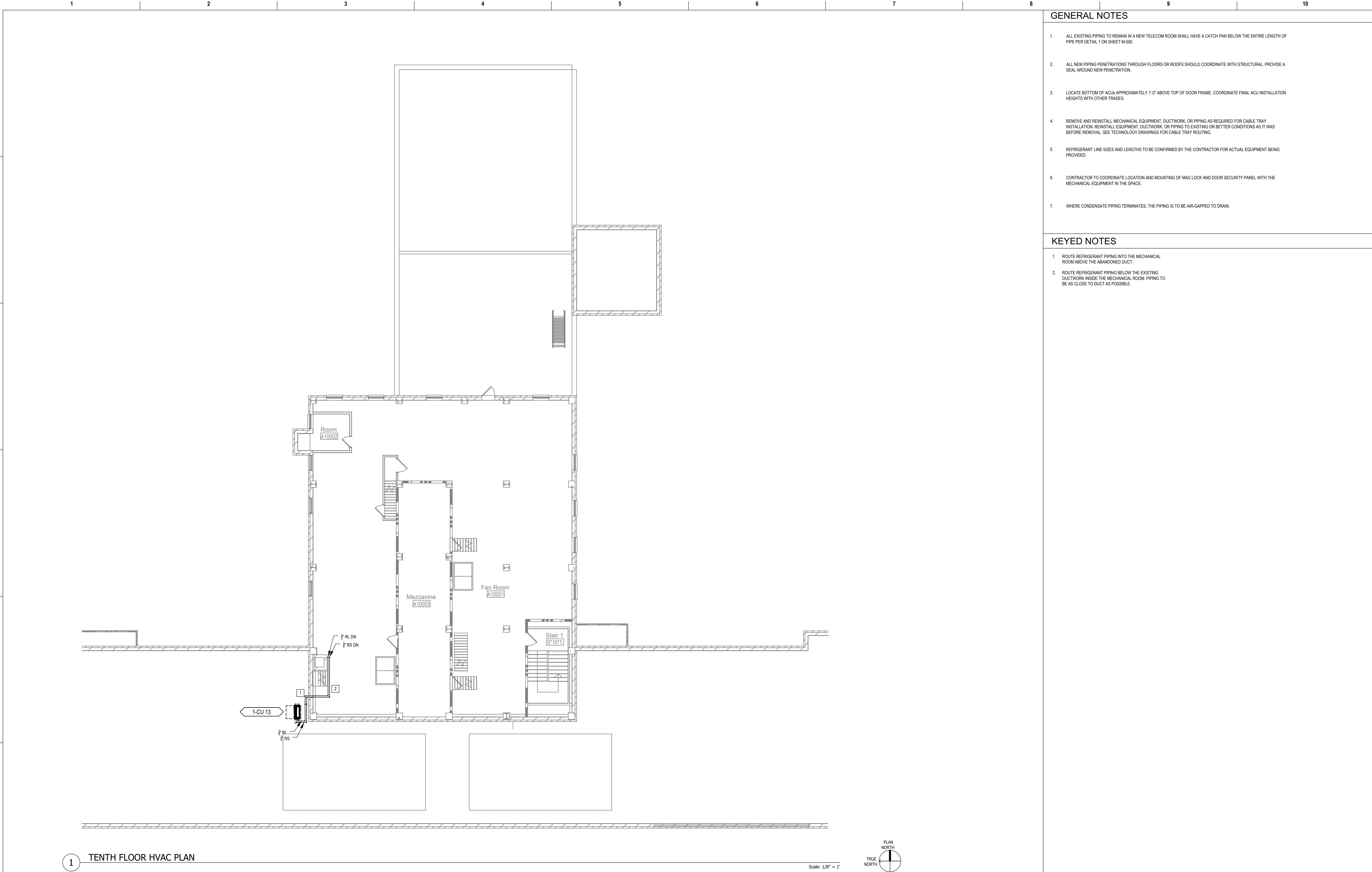


1 NINTH FLOOR HVAC PLAN

Scale: 1/16" = 1'



Revisions:	Date:	CONSULTANT	PROJECT MANAGEMENT		Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number	
		 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766	 C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscompany.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscompany.com			NINTH FLOOR OVERALL HVAC NEW WORK PLAN	100% CONSTRUCTION DOCUMENTS	CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES	539-21-701	
						Approved: Project Director		Location 3200 VINE ST., CINCINNATI, OH	Building Number 1	
							FULLY SPRINKLERED	Issue Date 04-MAY-2022	Checked	Drawing Number M-110-C.1.9
								Drawn CL / KW		



GENERAL NOTES

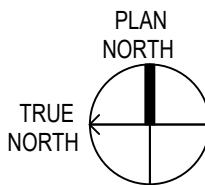
- ALL EXISTING PIPING TO REMAIN IN A NEW TELECOM ROOM SHALL HAVE A CATCH PAN BELOW THE ENTIRE LENGTH OF PIPE PER DETAIL 1 ON SHEET M-500.
- ALL NEW PIPING PENETRATIONS THROUGH FLOORS OR ROOFS SHOULD COORDINATE WITH STRUCTURAL. PROVIDE A SEAL AROUND NEW PENETRATION.
- LOCATE BOTTOM OF ACUs APPROXIMATELY 1'-0" ABOVE TOP OF DOOR FRAME. COORDINATE FINAL ACU INSTALLATION HEIGHTS WITH OTHER TRADES.
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- REFRIGERANT LINE SIZES AND LENGTHS TO BE CONFIRMED BY THE CONTRACTOR FOR ACTUAL EQUIPMENT BEING PROVIDED.
- CONTRACTOR TO COORDINATE LOCATION AND MOUNTING OF MAG LOCK AND DOOR SECURITY PANEL WITH THE MECHANICAL EQUIPMENT IN THE SPACE.
- WHERE CONDENSATE PIPING TERMINATES, THE PIPING IS TO BE AIR-GAPPED TO DRAIN.

KEYED NOTES

- ROUTE REFRIGERANT PIPING INTO THE MECHANICAL ROOM ABOVE THE ABANDONED DUCT.
- ROUTE REFRIGERANT PIPING BELOW THE EXISTING DUCTWORK INSIDE THE MECHANICAL ROOM. PIPING TO BE AS CLOSE TO DUCT AS POSSIBLE.

1 TENTH FLOOR HVAC PLAN

Scale: 1/8" = 1'



Revisions:	Date:

CONSULTANT

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U.S. Department
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Drawing Title
TENTH FLOOR OVERALL HVAC NEW WORK PLAN
Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title
CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES
Location
3200 VINE ST., CINCINNATI, OH
Issue Date
04-MAY-2022
Checked
Drawn
CL / KW

Project Number
539-21-701
Building Number
1
Drawing Number
M-111-C.1.10



Revisions:	Date:

CONSULTANT

Ross & Baruzzini

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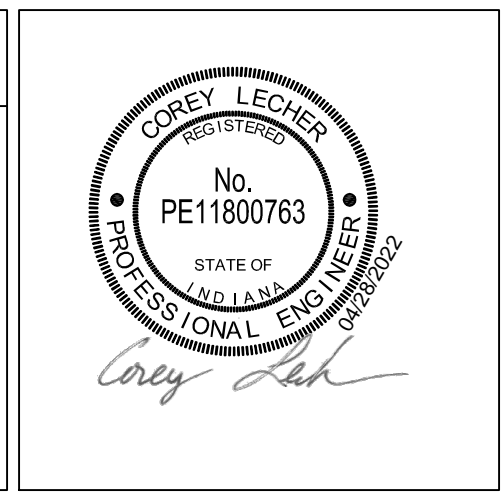
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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

FIRST FLOOR OVERALL HVAC NEW WORK PLAN

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location
3200 VINE ST., CINCINNATI, OH

Issue Date
04-MAY-2022

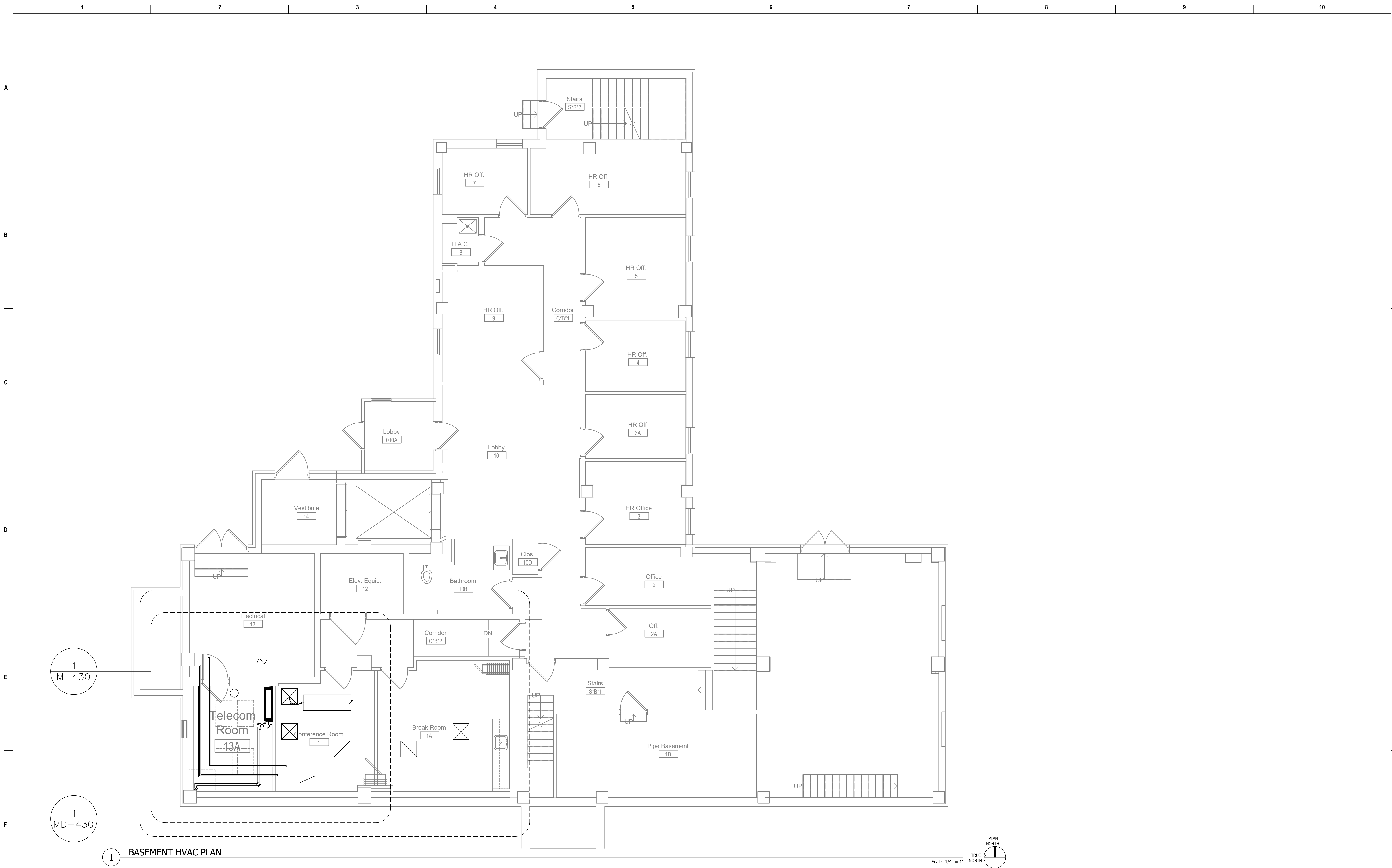
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Drawn
CL / KW

Project Number
539-21-701

Building Number
2

Drawing Number
M-121-C.2.1



Revisions:	Date:

CONSULTANT

Ross & Baruzzini

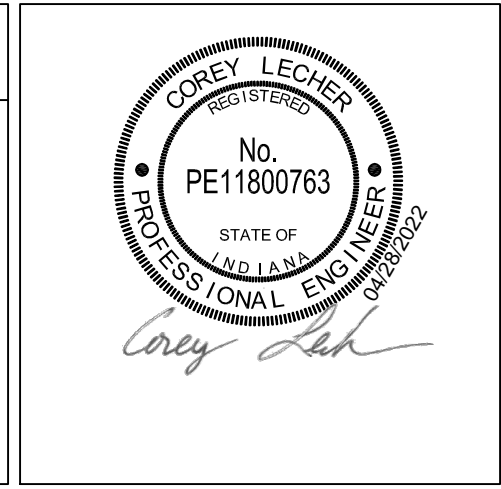
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Construction
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Management

VA U.S. Department
of Veterans Affairs

Drawing Title

**BASEMENT OVERALL HVAC NEW
WORK PLAN**

Approved: Project Director

Phase

**100% CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title

**CINCINNATI VAMC EHRM
INFRASTRUCTURE UPGRADES**

Location 3200 VINE ST., CINCINNATI, OH

Issue Date 04-MAY-2022

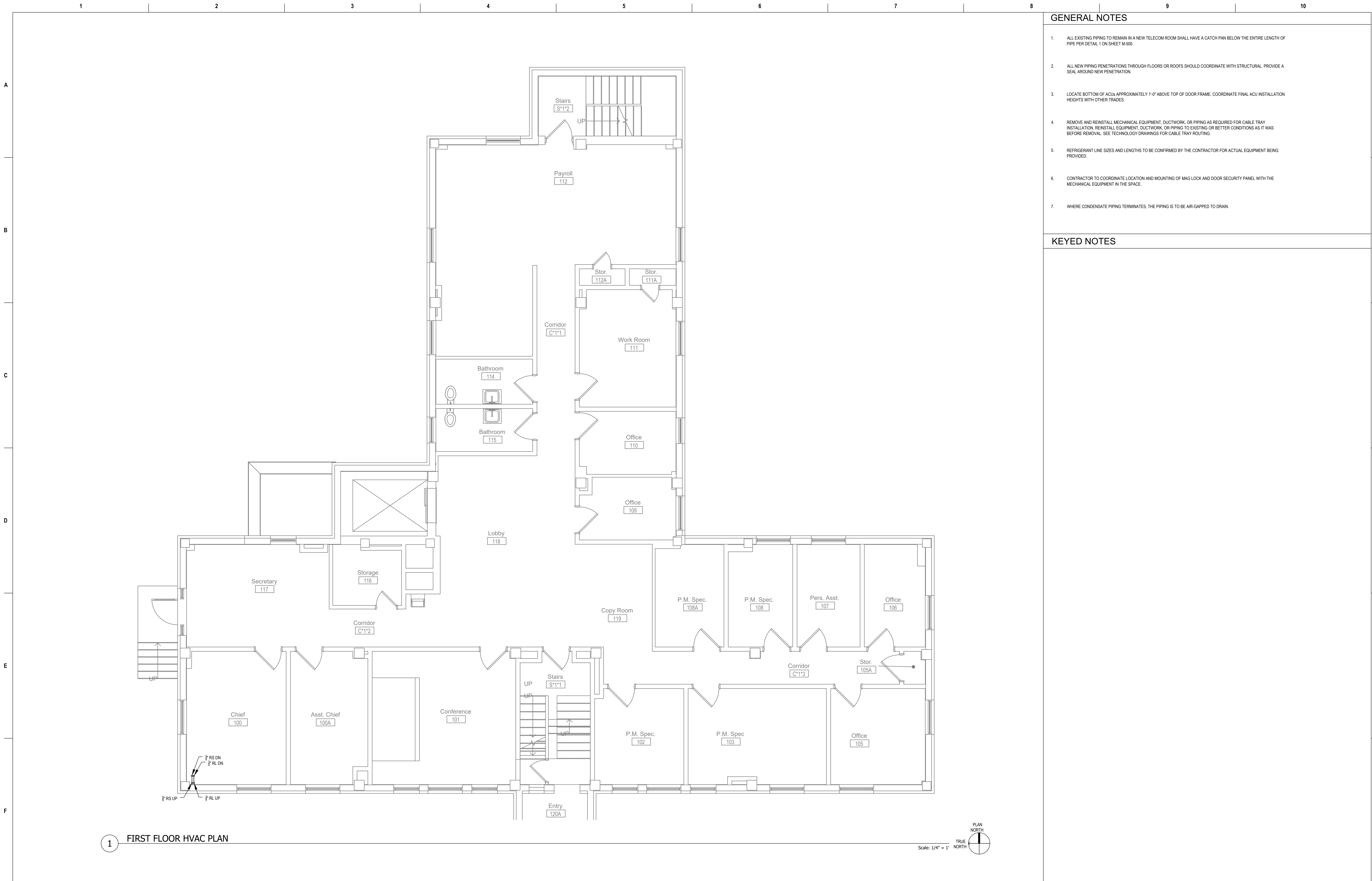
Checked

Drawn CL / KW

Project Number 539-21-701

Building Number 3

Drawing Number M-130-C.3.B



1 FIRST FLOOR HVAC PLAN

GENERAL NOTES

1. ALL EXISTING PIPING TO REMAIN IN A NEW TELECOM ROOM SHALL HAVE A CATCH PAN BELOW THE ENTIRE LENGTH OF PIPE PER DETAIL 1 ON SHEET M-500.
2. ALL NEW PIPING PENETRATIONS THROUGH FLOORS OR ROOFS SHOULD COORDINATE WITH STRUCTURAL. PROVIDE A SEAL AROUND NEW PENETRATION.
3. LOCATE BOTTOM OF ACU APPROXIMATELY 1'-0" ABOVE TOP OF DOOR FRAME. COORDINATE FINAL ACU INSTALLATION HEIGHTS WITH OTHER TRADES.
4. REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.
5. REFRIGERANT LINE SIZES AND LENGTHS TO BE CONFIRMED BY THE CONTRACTOR FOR ACTUAL EQUIPMENT BEING PROVIDED.
6. CONTRACTOR TO COORDINATE LOCATION AND MOUNTING OF MAG LOCK AND DOOR SECURITY PANEL WITH THE MECHANICAL EQUIPMENT IN THE SPACE.
7. WHERE CONDENSATE PIPING TERMINATES, THE PIPING IS TO BE AIR-GAPPED TO DRAIN.

KEYED NOTES

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT		Drawing Title		Phase	Project Title		Project Number	
			Ross & Baruzzini		HFS		FIRST FLOOR OVERALL HVAC NEW WORK PLAN		100% CONSTRUCTION DOCUMENTS	CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701	
			6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		C O M P A N Y 8718 Botts Lane Phone: (210) 816-4784 San Antonio, Texas 78217 Fax: (210) 881-6808 www.hfscorporation.com jbianco@hfscorporation.com		Approved: Project Director		FULLY SPRINKLERED	Location 3200 VINE ST., CINCINNATI, OH		Building Number 3	
										Issue Date 04-MAY-2022		Drawing Number M-131-C.3.1	
										Checked		Drawn CL / KW	



Scale: $1/4'' = 1'$

CONSULTANT

Ross & Baruzzini

6 SOUTH OLD ORCHARD
WEBSTER GROVES, MO. 63119
T: 314.918.8383
F: 314.918.1766

VA U.S. Department
of Veterans Affairs

Drawing Title

SECOND FLOOR OVERALL HVAC
NEW WORK PLAN

Approved: Project Director

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM
INFRASTRUCTURE UPGRADES

Location 3200 VINE ST., CINCINNATI, OH

Issue Date
04-MAY-2022

Checked

awn

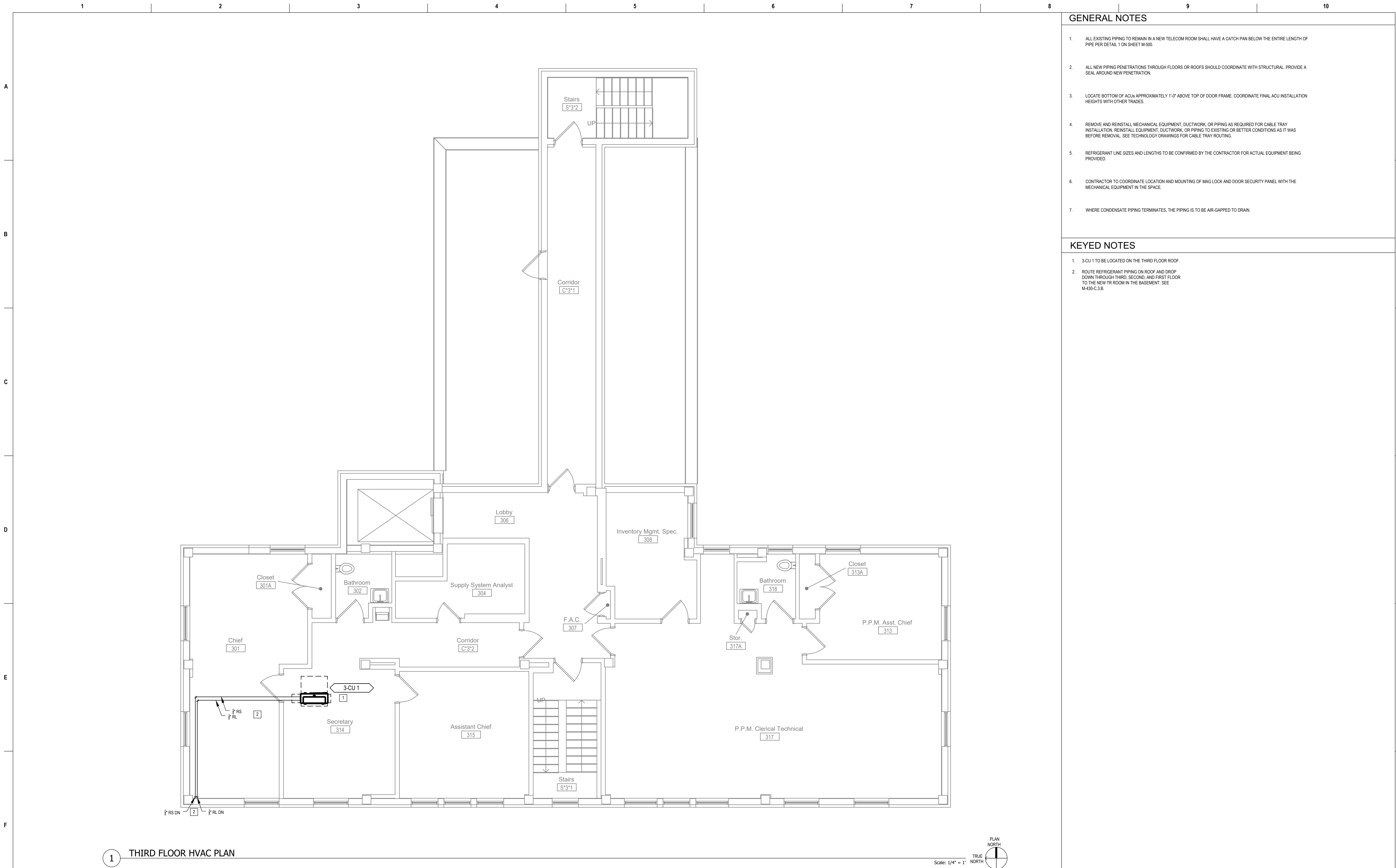
CL / KW

Project Number
539-21-701

Filing Number
3

Living Number

M-132-C.3.2



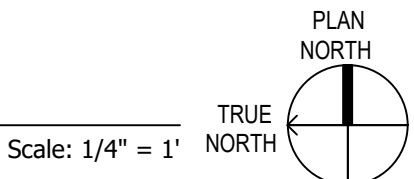
GENERAL NOTES

- ALL EXISTING PIPING TO REMAIN IN A NEW TELECOM ROOM SHALL HAVE A CATCH PAN BELOW THE ENTIRE LENGTH OF PIPE PER DETAIL 1 ON SHEET M-500.
- ALL NEW PIPING PENETRATIONS THROUGH FLOORS OR ROOFS SHOULD COORDINATE WITH STRUCTURAL. PROVIDE A SEAL AROUND NEW PENETRATION.
- LOCATE BOTTOM OF ACU APPROXIMATELY 1'-0" ABOVE TOP OF DOOR FRAME. COORDINATE FINAL ACU INSTALLATION HEIGHTS WITH OTHER TRADES.
- REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.
- REFRIGERANT LINE SIZES AND LENGTHS TO BE CONFIRMED BY THE CONTRACTOR FOR ACTUAL EQUIPMENT BEING PROVIDED.
- CONTRACTOR TO COORDINATE LOCATION AND MOUNTING OF MAG LOCK AND DOOR SECURITY PANEL WITH THE MECHANICAL EQUIPMENT IN THE SPACE.
- WHERE CONDENSATE PIPING TERMINATES, THE PIPING IS TO BE AIR-GAPPED TO DRAIN.

KEYED NOTES

- 3-CU 1 TO BE LOCATED ON THE THIRD FLOOR ROOF.
- ROUTE REFRIGERANT PIPING ON ROOF AND DROP DOWN THROUGH THIRD, SECOND, AND FIRST FLOOR TO THE NEW TR ROOM IN THE BASEMENT. SEE M-430-C.3.B.

1 THIRD FLOOR HVAC PLAN



Revisions:	Date:

CONSULTANT

Ross & Baruzzini

6 SOUTH OLD ORCHARD
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PROJECT MANAGEMENT

HFS
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San Antonio, Texas 78217 Fax: (210) 881-6808
www.hfscmpany.com jbianco@hfscmpany.com



Construction
and Facilities
Management



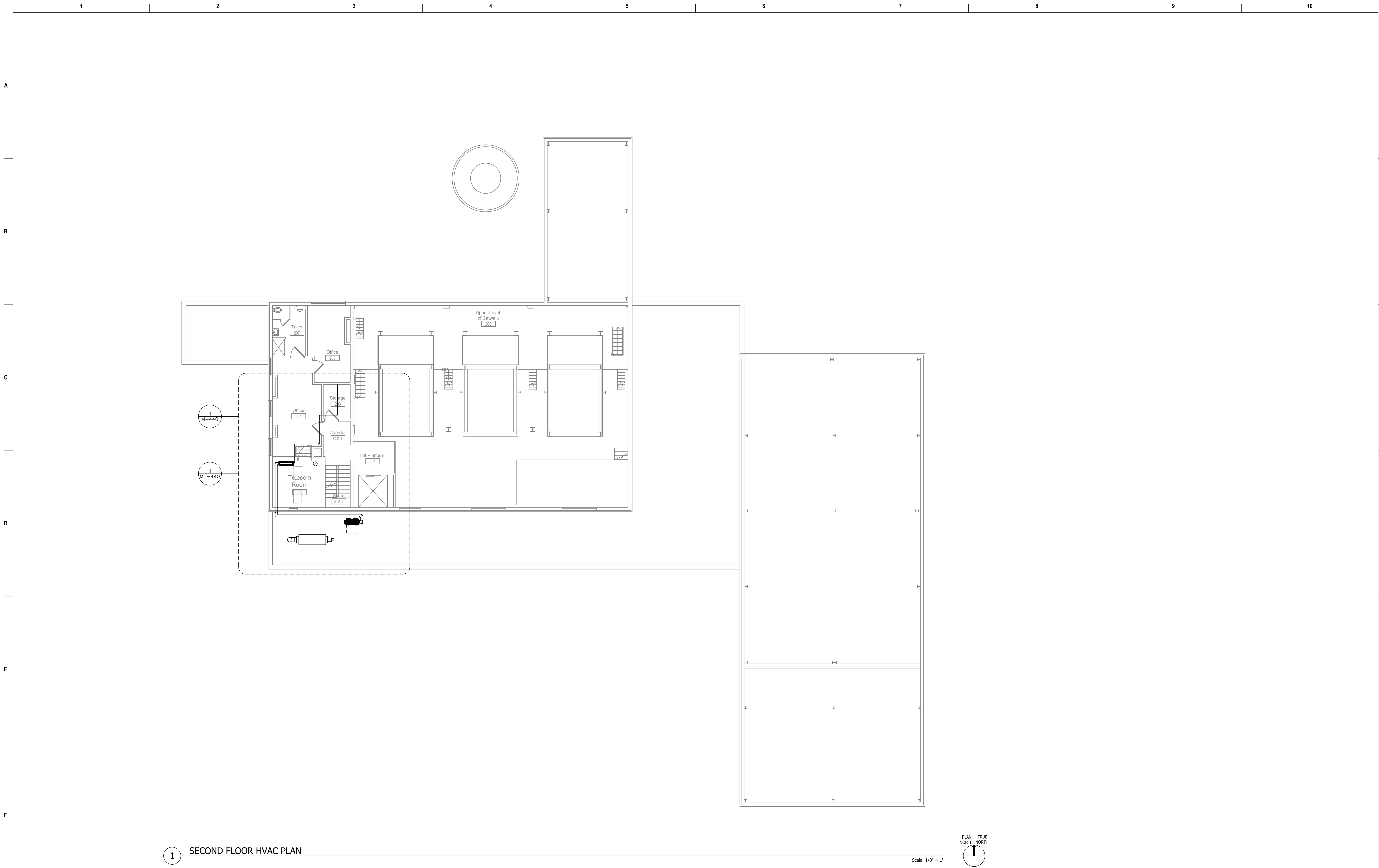
U.S. Department
of Veterans Affairs

Drawing Title
THIRD FLOOR OVERALL HVAC NEW WORK PLAN
Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

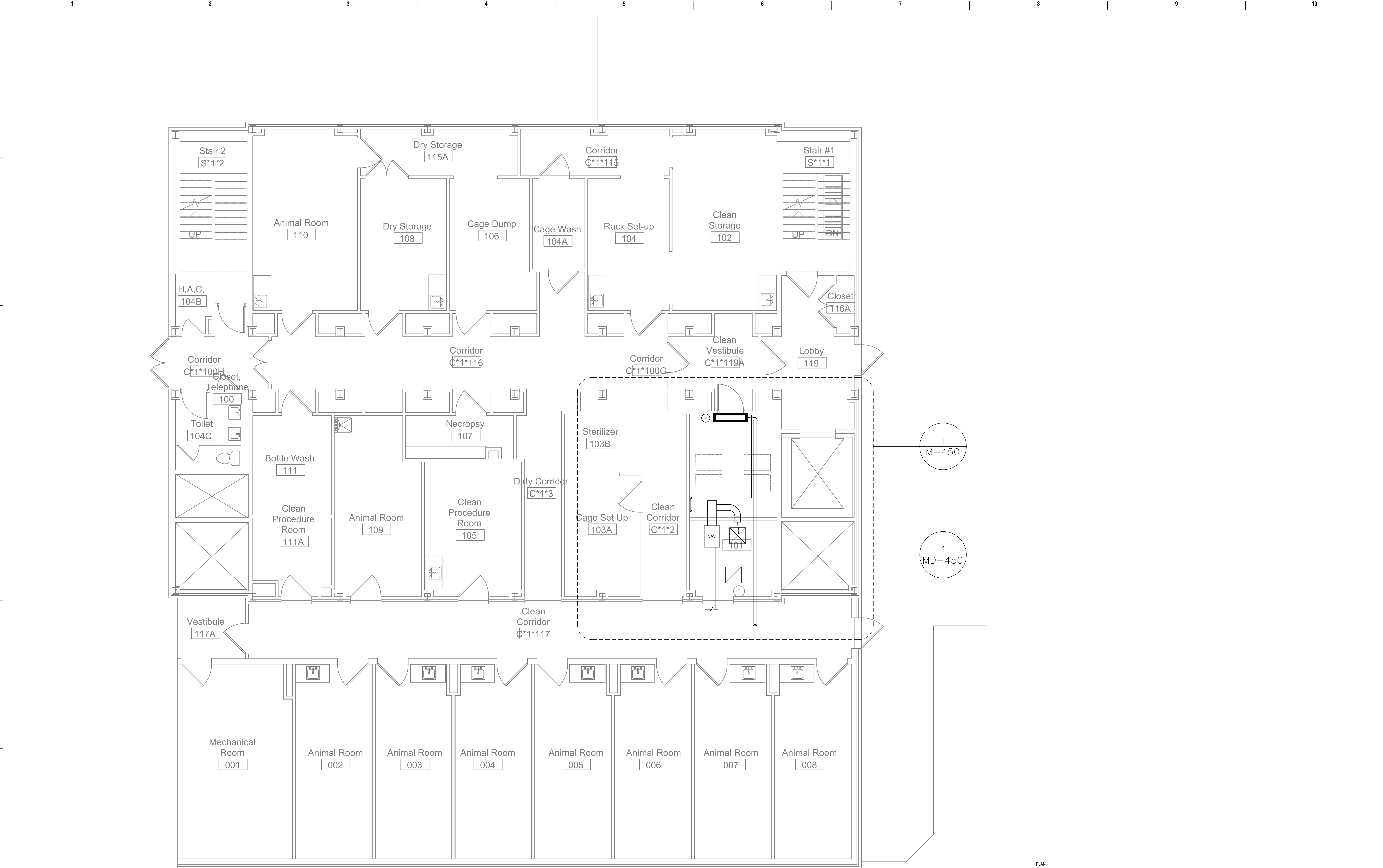
Project Title
CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES
Location
3200 VINE ST., CINCINNATI, OH
Issue Date
04-MAY-2022
Checked
Drawn
CL / KW

Project Number
539-21-701
Building Number
3
Drawing Number
M-133-C.3.3

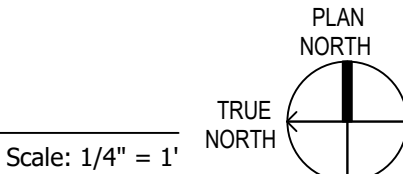


1 SECOND FLOOR HVAC PLAN

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT		Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
			Ross & Baruzzini 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		HFS C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscompany.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscompany.com		 Corey Lecher		SECOND FLOOR OVERALL HVAC NEW WORK PLAN		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701	
													3200 VINE ST., CINCINNATI, OH		Building Number 8	
													Issue Date		Checked	
													04-MAY-2022			
													Drawn		CL / KW	
							VA U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED				Drawing Number M-140-C.8.2	



1 FIRST FLOOR HVAC PLAN



Revisions:	Date:

CONSULTANT

Ross & Baruzzini

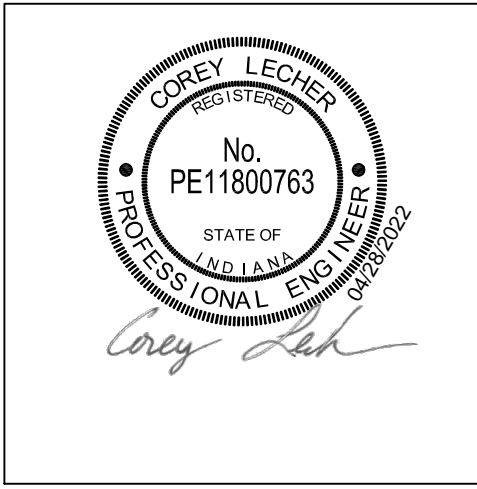
6 SOUTH OLD ORCHARD
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F: 314.918.1766

PROJECT MANAGEMENT

HFS

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Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

**FIRST FLOOR OVERALL HVAC NEW
WORK PLAN**

Approved: Project Director

Phase

**100% CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title

**CINCINNATI VAMC EHRM
INFRASTRUCTURE UPGRADES**

Location 3200 VINE ST., CINCINNATI, OH

Issue Date 04-MAY-2022

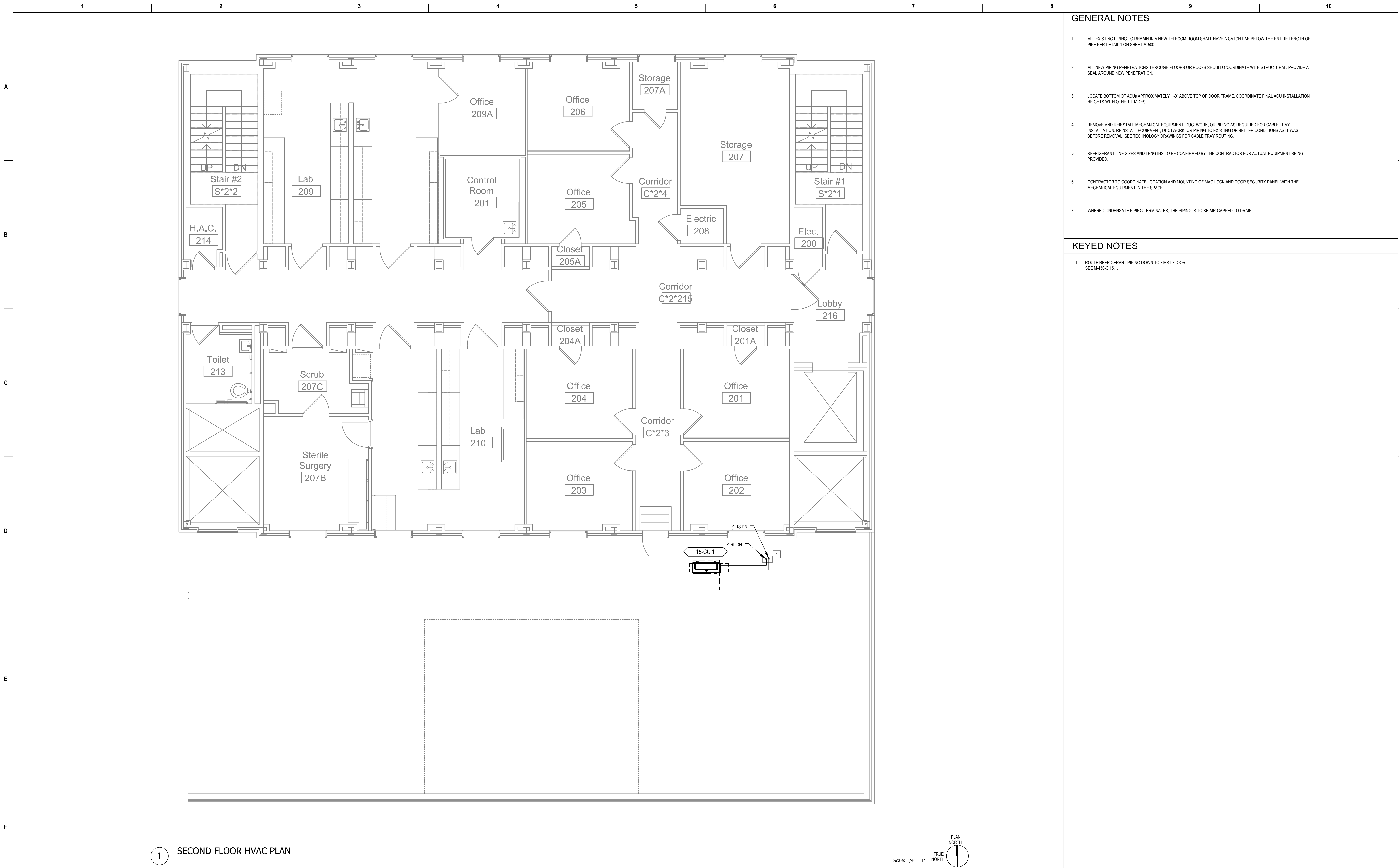
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Drawn CL / KW

Project Number 539-21-701

Building Number 15

Drawing Number **M-150-C.15.1**



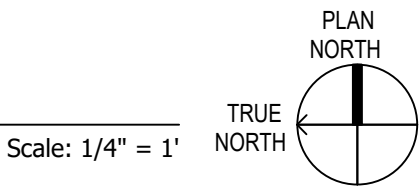
GENERAL NOTES

- ALL EXISTING PIPING TO REMAIN IN A NEW TELECOM ROOM SHALL HAVE A CATCH PAN BELOW THE ENTIRE LENGTH OF PIPE PER DETAIL 1 ON SHEET M-500.
- ALL NEW PIPING PENETRATIONS THROUGH FLOORS OR ROOFS SHOULD COORDINATE WITH STRUCTURAL. PROVIDE A SEAL AROUND NEW PENETRATION.
- LOCATE BOTTOM OF ACU APPROXIMATELY 1'-0" ABOVE TOP OF DOOR FRAME. COORDINATE FINAL ACU INSTALLATION HEIGHTS WITH OTHER TRADES.
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- WHERE CONDENSATE PIPING TERMINATES, THE PIPING IS TO BE AIR-GAPPED TO DRAIN.

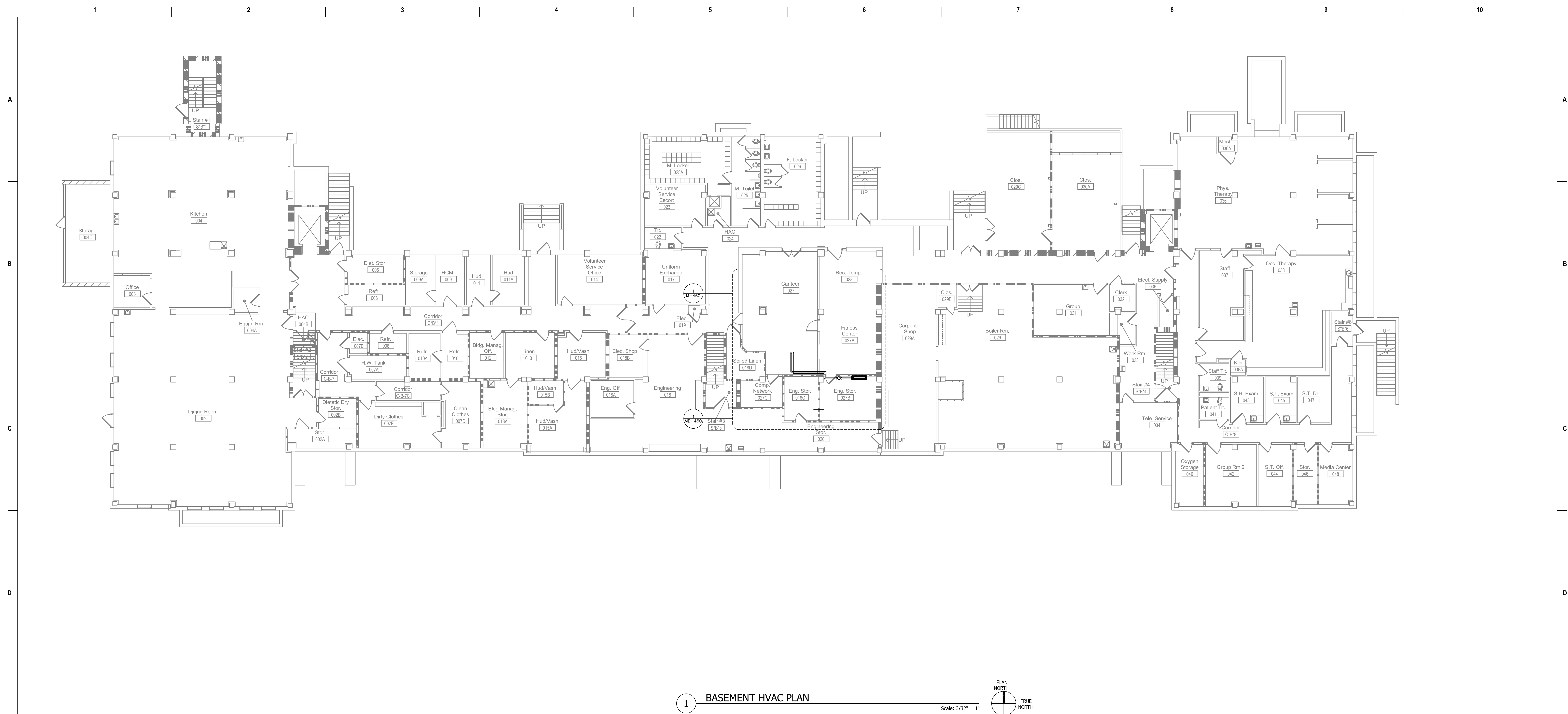
KEYED NOTES

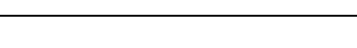


- ROUTE REFRIGERANT PIPING DOWN TO FIRST FLOOR. SEE M-450-C.15.1.

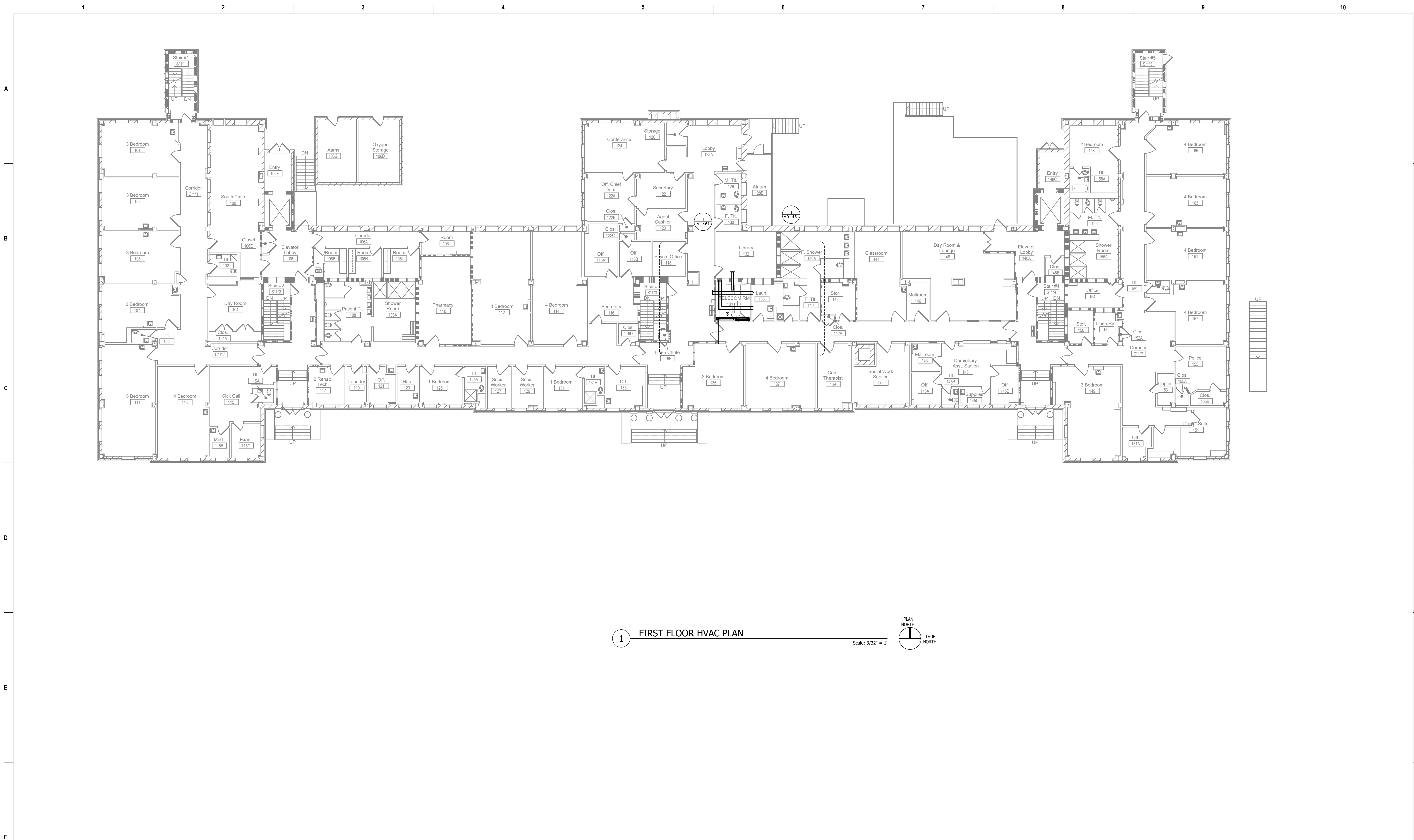
1 SECOND FLOOR HVAC PLAN






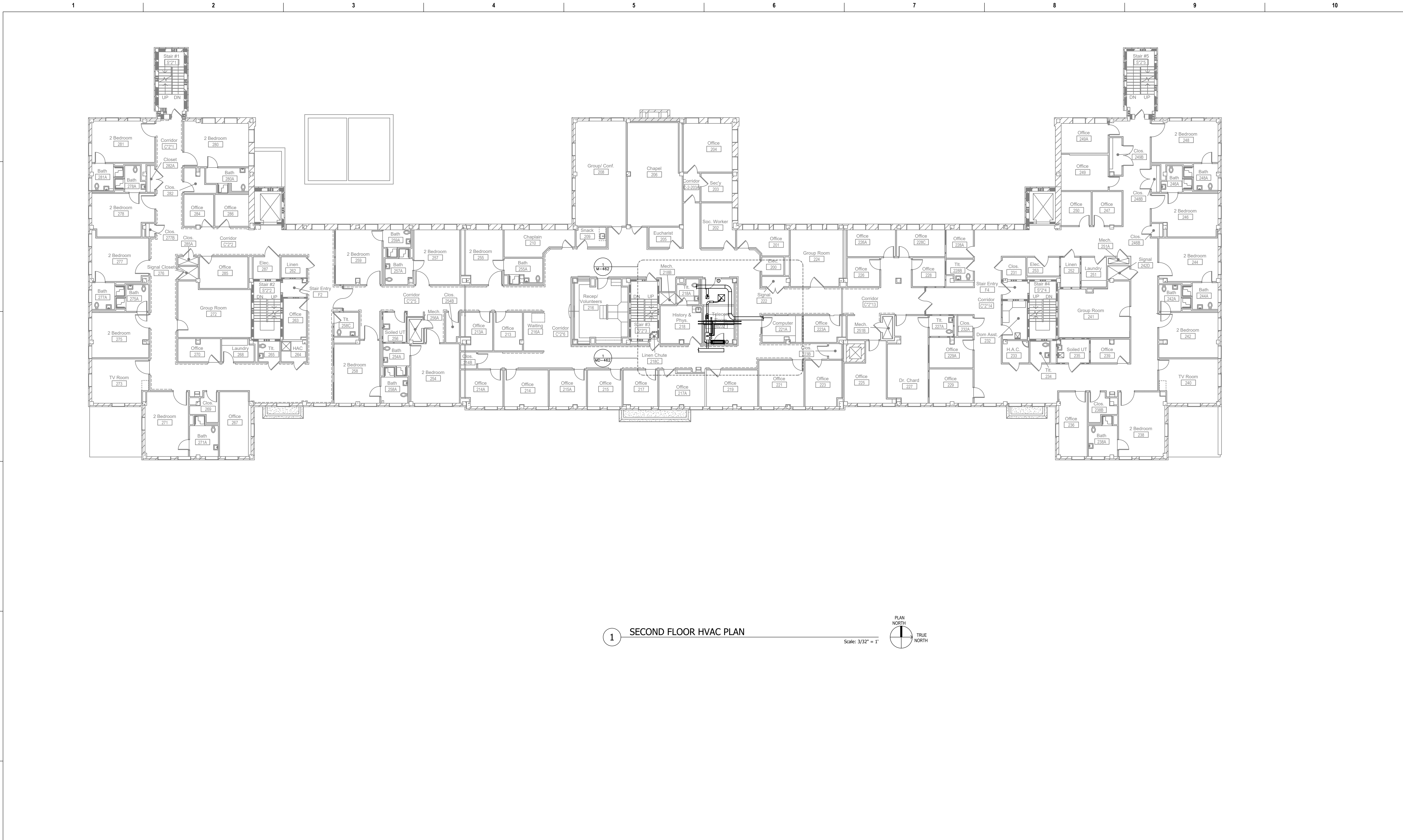
Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT		Drawing Title		Phase	Project Title		Project Number	
			Ross & Baruzzini		HFS		SECOND FLOOR OVERALL HVAC		100% CONSTRUCTION	CINCINNATI VAMC EHRM		539-21-701	
			6 SOUTH OLD ORCHARD		C O M P A N Y		NEW WORK PLAN		DOCUMENTS	INFRASTRUCTURE UPGRADES		Building Number	
			WEBSTER GROVES, MO. 63119		8718 Botts Lane		Approved: Project Director		FULLY SPRINKLERED	Location		15	
			T: 314.918.8383		Phone: (210) 816-4784					3200 VINE ST., CINCINNATI, OH		Drawing Number	
			F: 314.918.1766		Fax: (210) 881-6808					Issue Date		M-151-C.15.2	
					www.hfscorporation.com					Checked		CL / KW	
										04-MAY-2022			



Revisions:	Date:	CONSULTANT	PROJECT MANAGEMENT	 <div>Construction and Facilities Management</div> <div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div>	<div>Drawing Title</div> <div>BASEMENT OVERALL HVAC NEW WORK PLAN</div> <div>Approved: Project Director</div>	<div>Phase</div> <div>100% CONSTRUCTION DOCUMENTS</div> <div>FULLY SPRINKLERED</div>	<div>Project Title</div> <div>CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES</div> <div>Location</div> <div>3200 VINE ST., CINCINNATI, OH</div> <div><div>Issue Date</div><div>15-JUNE-2022</div><div>Checked</div><div>Drawn</div><div>CL / KW</div></div>	<div>Project Number</div> <div>539-21-701</div> <div>Building Number</div> <div>64</div> <div>Drawing Number</div> <div>M-160-FT.64.B</div>
		 <div>6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766</div>	 <div>8718 Botts Lane San Antonio, Texas 78217 www.hfscompany.com</div> <div>Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscompany.com</div>					

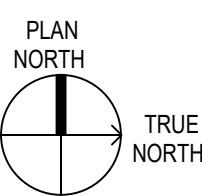





Revisions:			Date:			CONSULTANT			PROJECT MANAGEMENT						Construction and Facilities Management			Drawing Title			Phase			Project Title			Project Number		
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						6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766			C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com									Approved: Project Director			FULLY SPRINKLERED			Location 3200 VINE ST., CINCINNATI, OH			Building Number 64		
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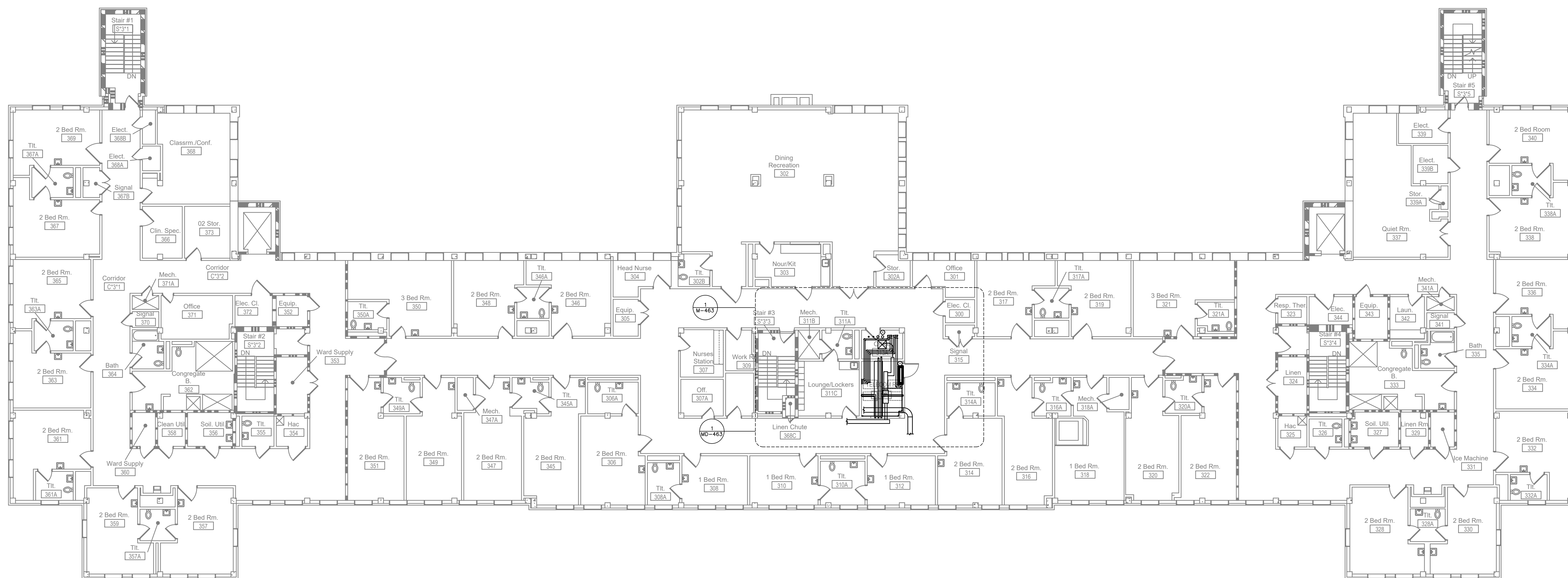


1 SECOND FLOOR HVAC PLAN

Scale: 3/32" = 1'

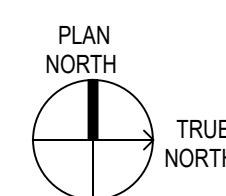






Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT				Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
									SECOND FLOOR OVERALL HVAC NEW WORK PLAN		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701		Building Number	
			6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscompany.com		Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscompany.com		VA U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED		Location 3200 VINE ST., CINCINNATI, OH		Drawing Number	
													Issue Date 04-MAY-2022		Checked		Drawn CL / KW	
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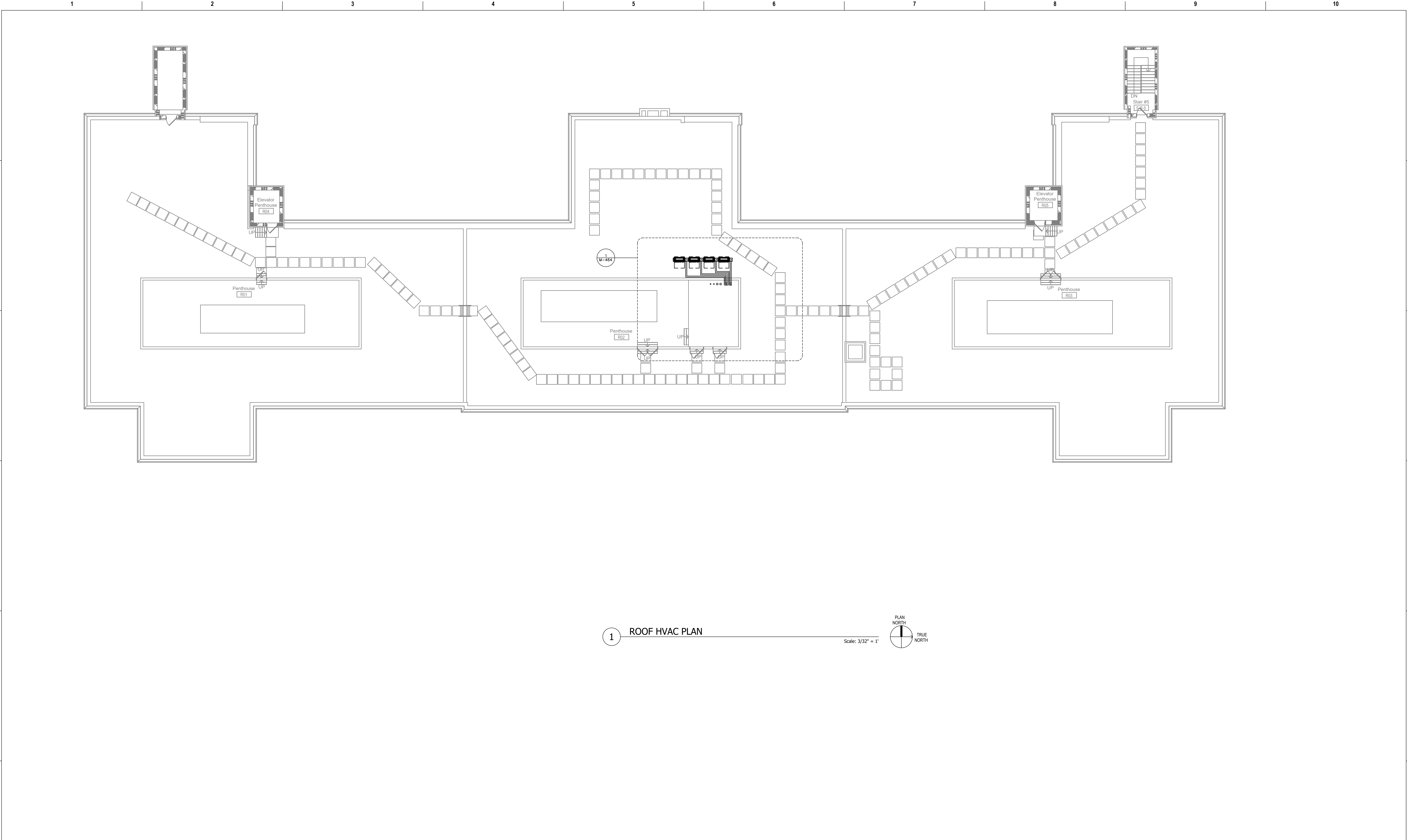


1 THIRD FLOOR HVAC PLAN

Scale: $3/32" = 1'$



Revisions:	Date:	CONSULTANT	PROJECT MANAGEMENT		Construction and Facilities Management	Drawing Title	Project Title	Phase	Project Title	Project Number
		 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766 www.hfscompany.com	 C O M P A N Y 8718 Botts Lane Phone: (210) 816-4784 San Antonio, Texas 78217 Fax: (210) 881-6808 www.hfscompany.com jbianco@hfscompany.com			THIRD FLOOR OVERALL HVAC NEW WORK PLAN	100% CONSTRUCTION DOCUMENTS	CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES	539-21-701	
						Approved: Project Director		FULLY SPRINKLERED	Location 3200 VINE ST., CINCINNATI, OH	Drawing Number
					 U.S. Department of Veterans Affairs				Issue Date 04-MAY-2022	M-163-FT.64.3
									Checked	
									Drawn CL / KW	



Revisions:	Date:

CONSULTANT

Ross & Baruzzini

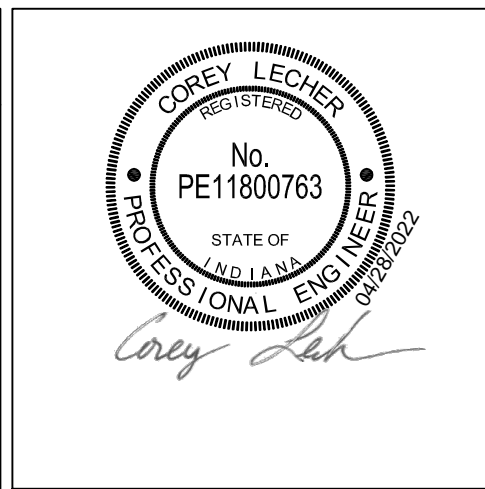
6 SOUTH OLD ORCHARD
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PROJECT MANAGEMENT

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Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

ROOF OVERALL HVAC NEW WORK PLAN

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location 3200 VINE ST., CINCINNATI, OH

Issue Date 04-MAY-2022

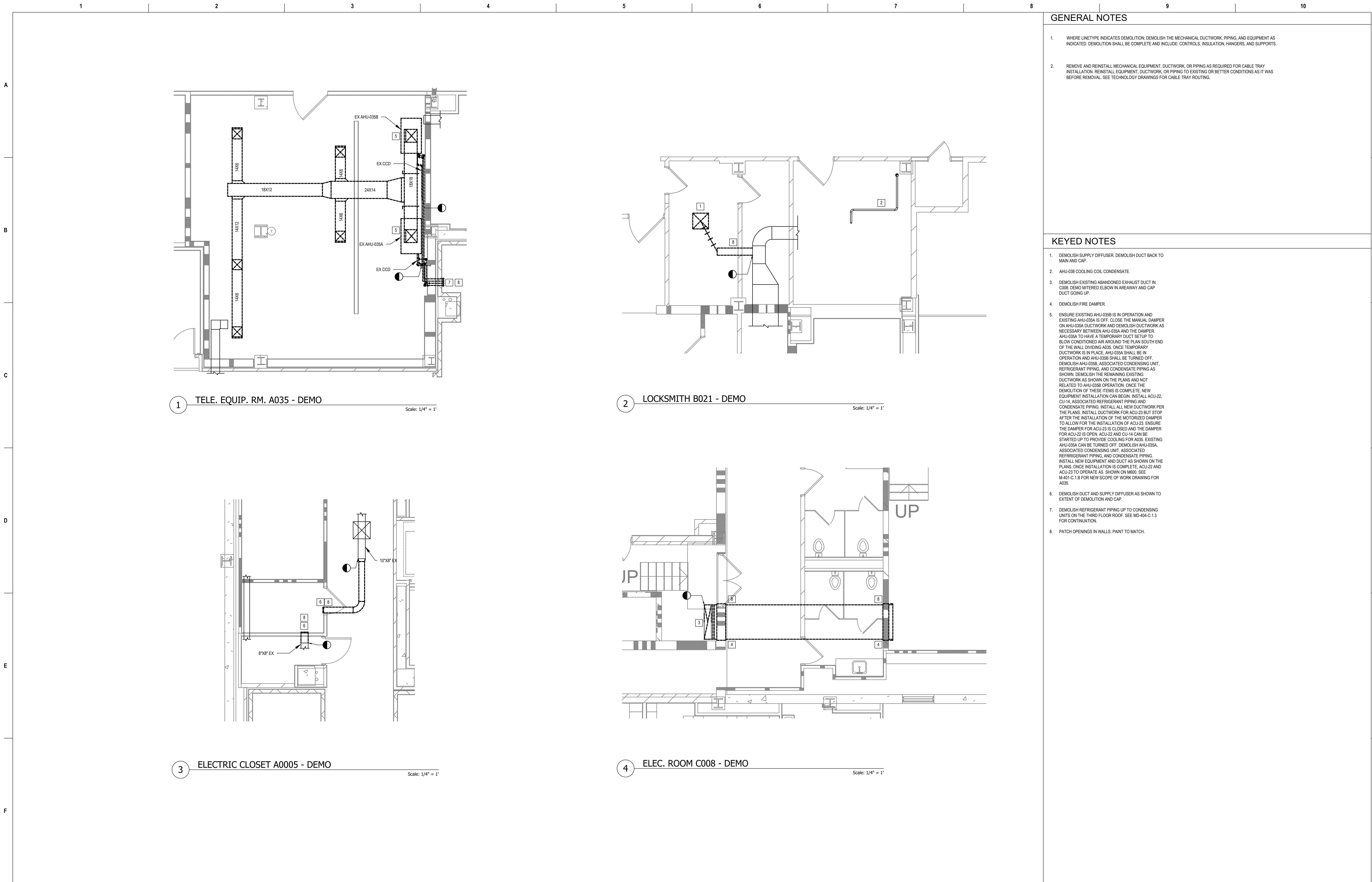
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Drawn CL / KW

Project Number 539-21-701

Building Number 64

Drawing Number **M-164-FT.64.4**



Revisions:	Date:

CONSULTANT

Ross & Baruzzini

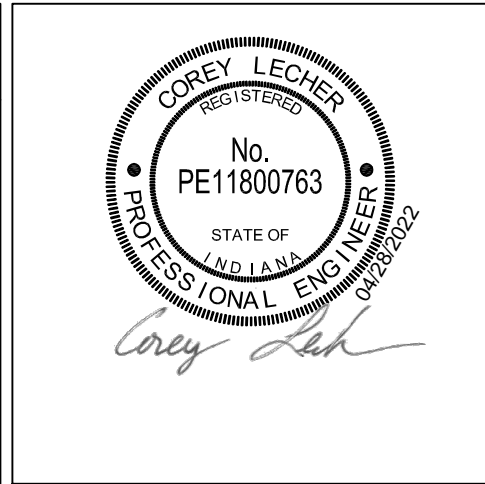
6 SOUTH OLD ORCHARD
WEBSTER GROVES, MO. 63119
T: 314.918.8383
F: 314.918.1766

PROJECT MANAGEMENT

HFS

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www.hfscorporation.com jbianco@hfscorporation.com



Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

**ENLARGED FLOOR PLANS -
BASEMENT**

Approved: Project Director

Phase

**100% CONSTRUCTION
DOCUMENTS**

FULLY SPRINKLERED

Project Title

**CINCINNATI VAMC EHRM
INFRASTRUCTURE UPGRADES**

Location **3200 VINE ST., CINCINNATI, OH**

Issue Date **04-MAY-2022**

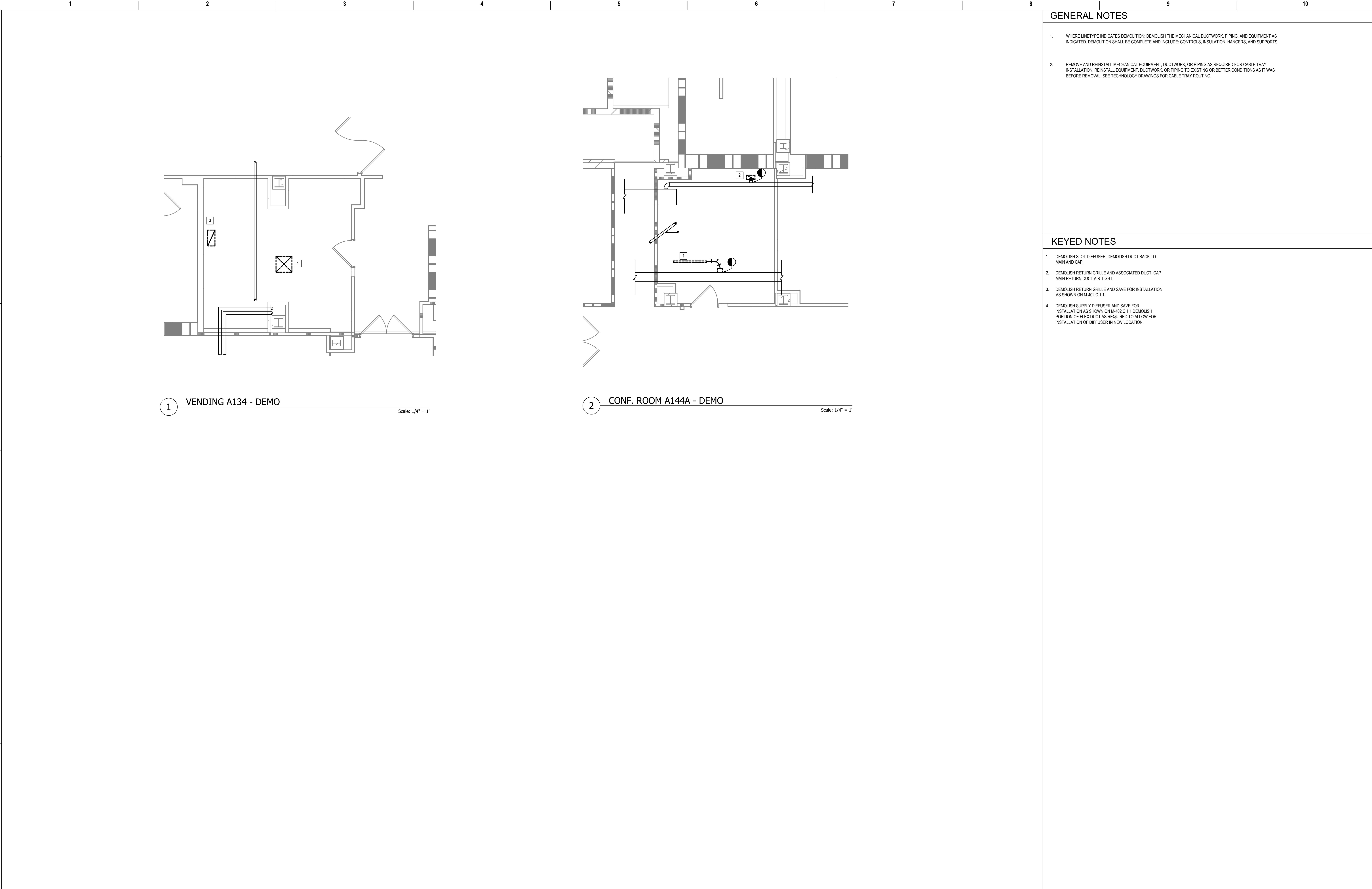
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Drawn **CL / KW**

Project Number **539-21-701**

Building Number **1**

Drawing Number **MD-401-C.1.B**



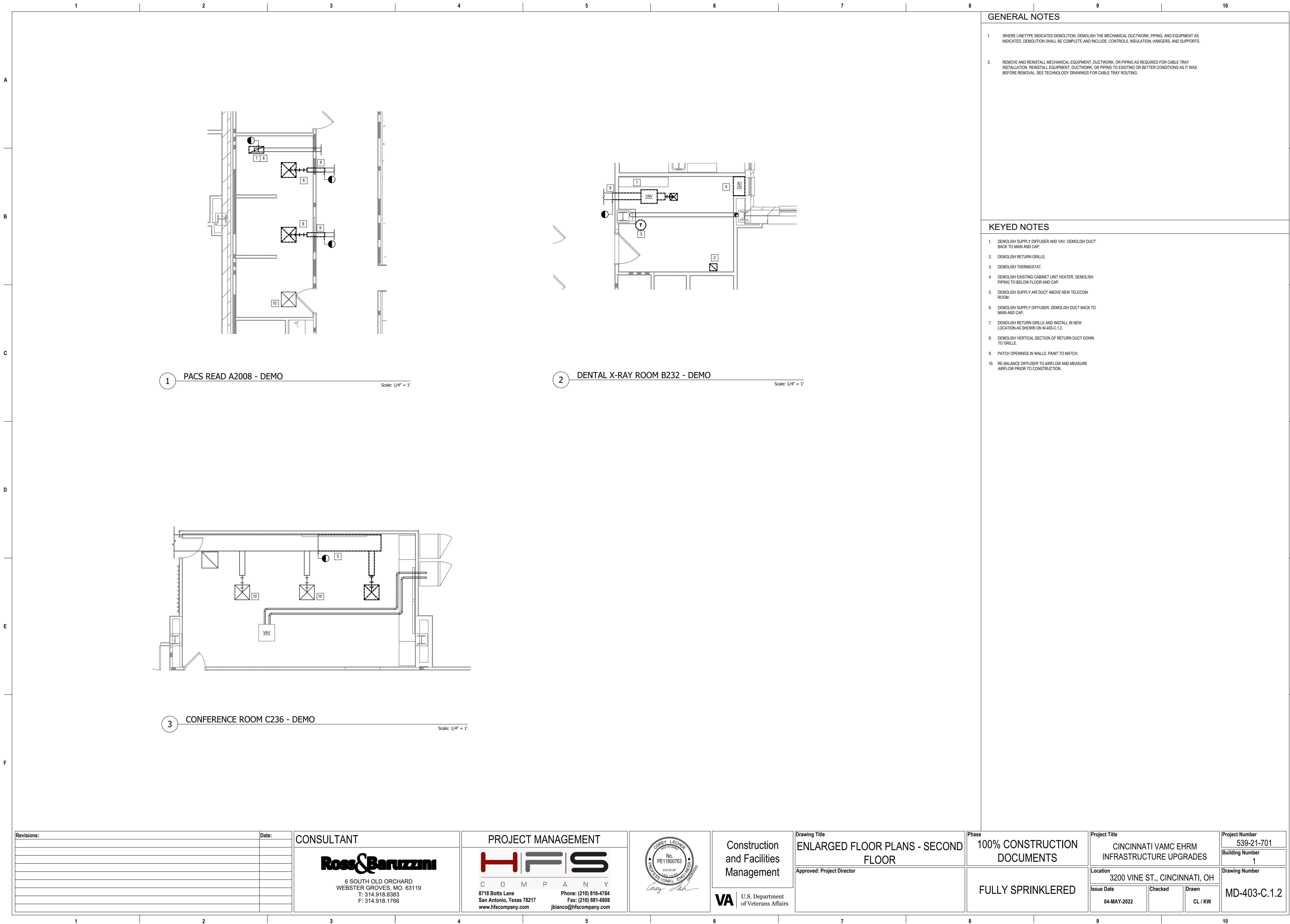
GENERAL NOTES

- 1. WHERE LINE TYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
- 2. REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.

KEYED NOTES

- 1. DEMOLISH SLOT DIFFUSER. DEMOLISH DUCT BACK TO MAIN AND CAP.
- 2. DEMOLISH RETURN GRILLE AND ASSOCIATED DUCT. CAP MAIN RETURN DUCT AIR TIGHT.
- 3. DEMOLISH RETURN GRILLE AND SAVE FOR INSTALLATION AS SHOWN ON M-402 C.1.1.
- 4. DEMOLISH SUPPLY DIFFUSER AND SAVE FOR INSTALLATION AS SHOWN ON M-402 C.1.1. DEMOLISH PORTION OF FLEX DUCT AS REQUIRED TO ALLOW FOR INSTALLATION OF DIFFUSER IN NEW LOCATION.

Revisions:		Date:	CONSULTANT Ross & Baruzzini 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		PROJECT MANAGEMENT HFS C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com		 Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title ENLARGED FLOOR PLANS - FIRST FLOOR Approved: Project Director		Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED		Project Title CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES Location 3200 VINE ST., CINCINNATI, OH Issue Date 04-MAY-2022		Project Number 539-21-701 Building Number 1 Drawing Number MD-402-C.1.1	
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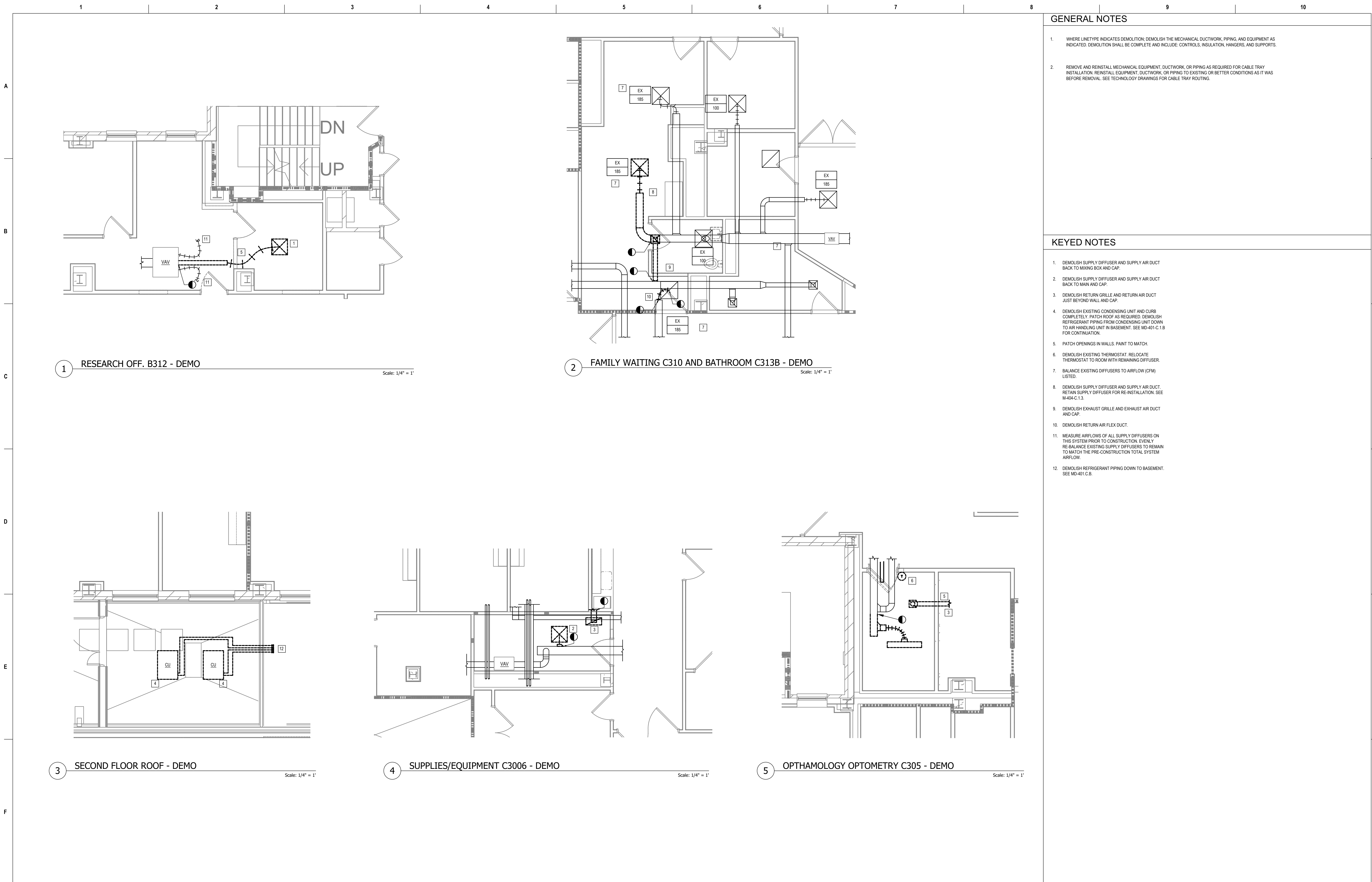
GENERAL NOTES

- 1. WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
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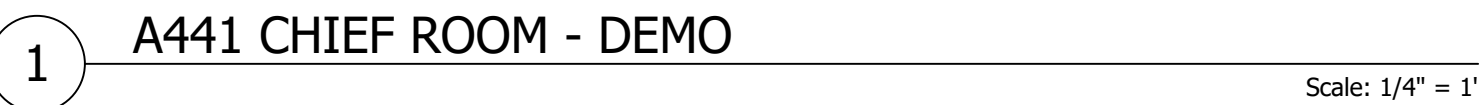
KEYED NOTES

- 1. DEMOLISH SUPPLY DIFFUSER AND VAV. DEMOLISH DUCT BACK TO MAIN AND CAP.
- 2. DEMOLISH RETURN GRILLE.
- 3. DEMOLISH THERMOSTAT.
- 4. DEMOLISH EXISTING CABINET UNIT HEATER. DEMOLISH PIPING TO BELOW FLOOR AND CAP.
- 5. DEMOLISH SUPPLY AIR DUCT ABOVE NEW TELECOM ROOM.
- 6. DEMOLISH SUPPLY DIFFUSER. DEMOLISH DUCT BACK TO MAIN AND CAP.
- 7. DEMOLISH RETURN GRILLE AND INSTALL IN NEW LOCATION AS SHOWN ON M-403-C.1.2.
- 8. DEMOLISH VERTICAL SECTION OF RETURN DUCT DOWN TO GRILLE.
- 9. PATCH OPENINGS IN WALLS. PAINT TO MATCH.
- 10. RE-BALANCE DIFFUSER TO AIRFLOW AND MEASURE AIRFLOW PRIOR TO CONSTRUCTION.

Revisions:		Date:	CONSULTANT Ross & Baruzzini 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		PROJECT MANAGEMENT HFS C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com		 Corey Lecher		Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title ENLARGED FLOOR PLANS - SECOND FLOOR Approved: Project Director		Phase 100% CONSTRUCTION DOCUMENTS FULLY SPRINKLERED		Project Title CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES Location 3200 VINE ST., CINCINNATI, OH Issue Date 04-MAY-2022		Project Number 539-21-701 Building Number 1 Drawing Number MD-403-C.1.2	
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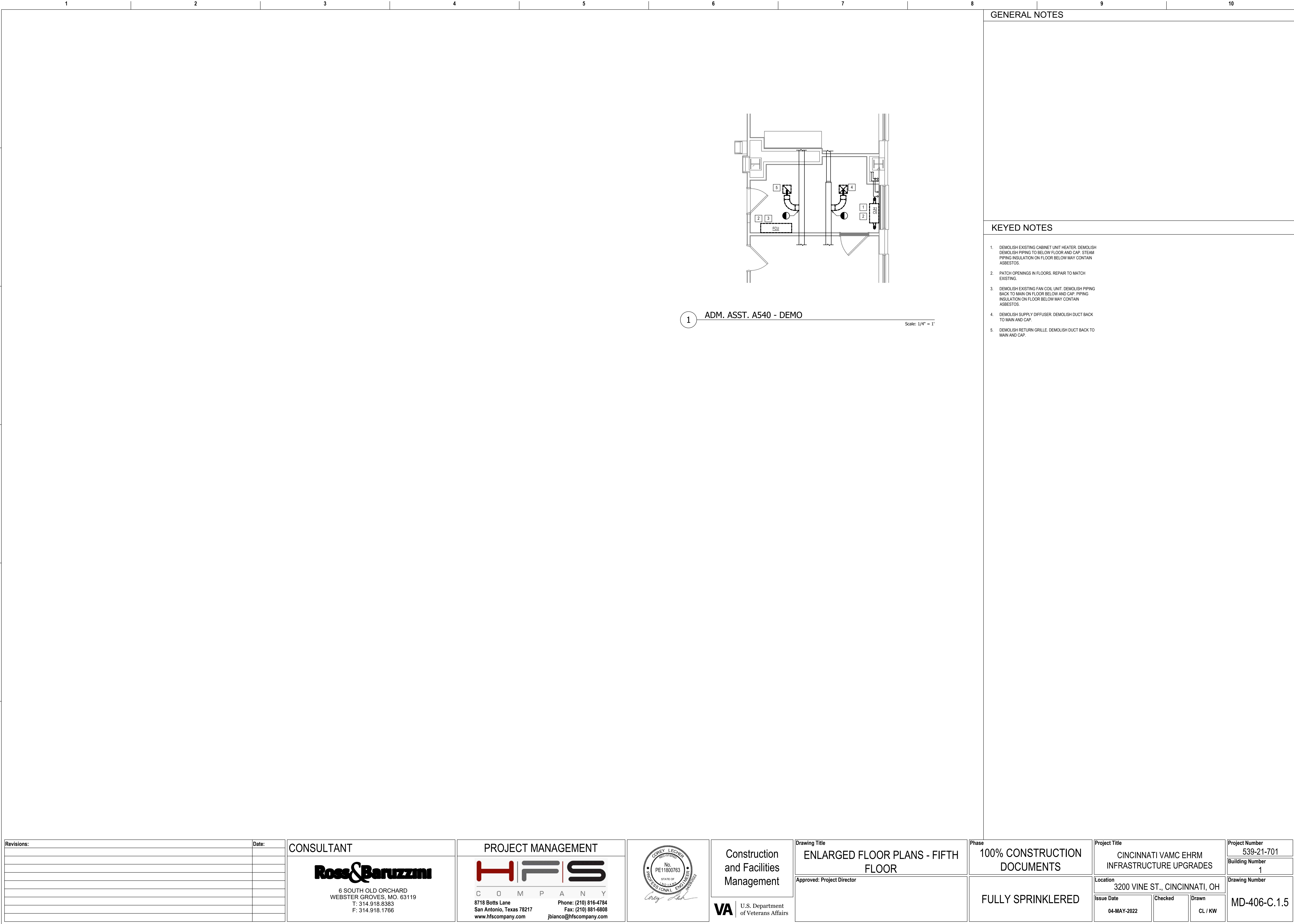
Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT		Drawing Title		Phase		Project Title		Project Number	
			Ross & Baruzzini		HFS		ENLARGED FLOOR PLANS - THIRD FLOOR		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701	
			6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com		Approved: Project Director		FULLY SPRINKLERED		Location 3200 VINE ST., CINCINNATI, OH		Building Number 1	
					Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com						Issue Date 04-MAY-2022		Drawing Number MD-404-C.1.3	
											Checked		Drawn CL / KW	



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1. DEMOLISH EXISTING CABINET UNIT HEATER. DEMOLISH PIPING TO BELOW FLOOR AND CAP. STEAM PIPING INSULATION ON FLOOR BELOW MAY CONTAIN ASBESTOS.
2. PATCH OPENINGS IN FLOORS. REPAIR TO MATCH EXISTING.
3. DEMO SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK. CAP OPENING AT FCU AIR TIGHT. MEASURE AIRFLOW IN A440 PRIOR TO CONSTRUCTION. RE-BALANCE FCU AND DIFFUSER AFTER DEMOLITION OF DIFFUSER IN A441

[illegible]



GENERAL NOTES

KEYED NOTES

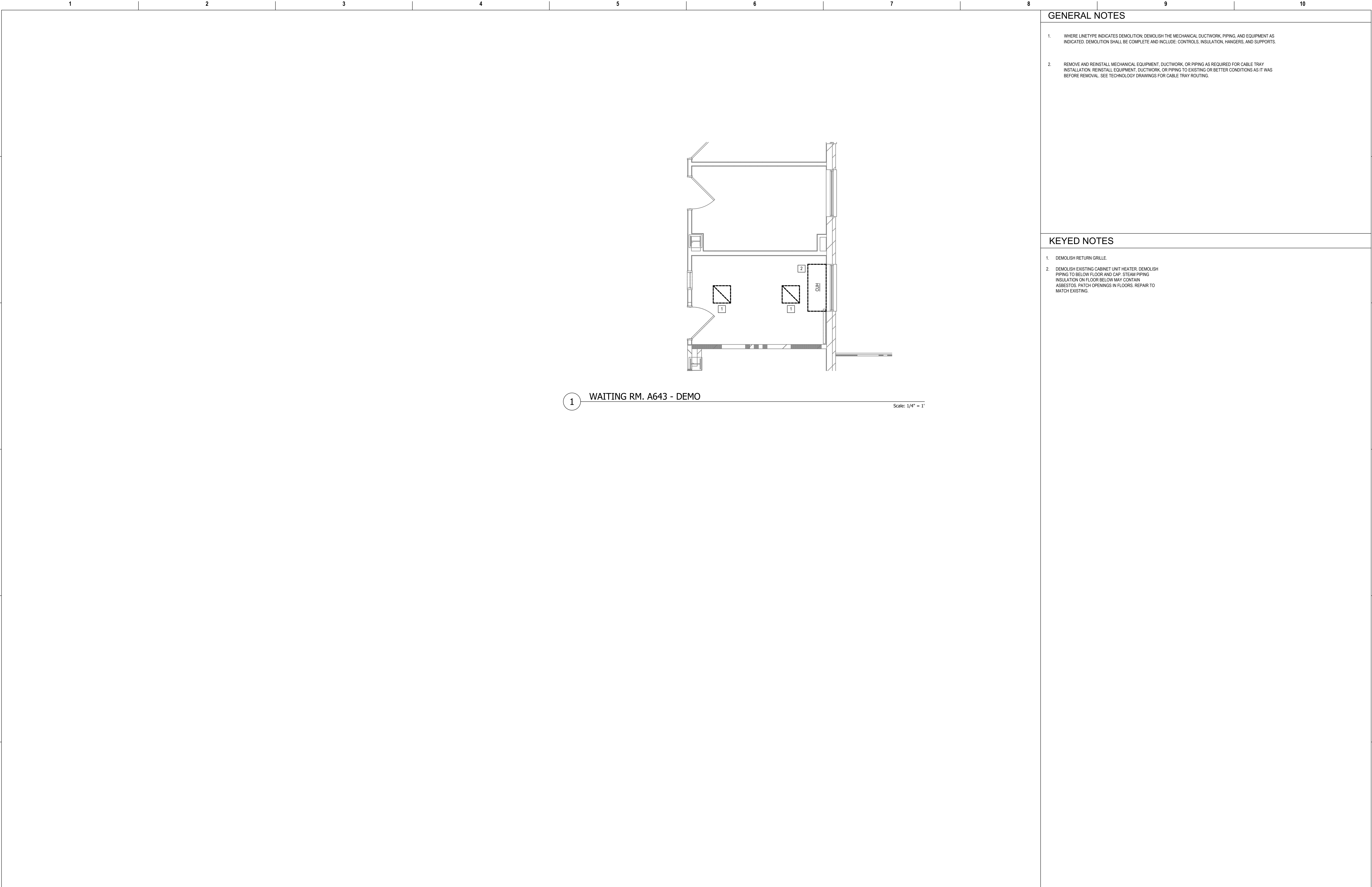
1. DEMOLISH EXISTING CABINET UNIT HEATER. DEMOLISH DEMOLISH PIPING TO BELOW FLOOR AND CAP. STEAM PIPING INSULATION ON FLOOR BELOW MAY CONTAIN ASBESTOS.
2. PATCH OPENINGS IN FLOORS. REPAIR TO MATCH EXISTING.
3. DEMOLISH EXISTING FAN COIL UNIT. DEMOLISH PIPING BACK TO MAIN ON FLOOR BELOW AND CAP. PIPING INSULATION ON FLOOR BELOW MAY CONTAIN ASBESTOS.
4. DEMOLISH SUPPLY DIFFUSER. DEMOLISH DUCT BACK TO MAIN AND CAP.
5. DEMOLISH RETURN GRILLE. DEMOLISH DUCT BACK TO MAIN AND CAP.

1 ADM. ASST. A540 - DEMO

Scale: 1/4" = 1'

Revisions:	Date:

CONSULTANT Ross & Baruzzini 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766	PROJECT MANAGEMENT HFS C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com	 <i>Corey Lecher</i>	Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title ENLARGED FLOOR PLANS - FIFTH FLOOR	Phase 100% CONSTRUCTION DOCUMENTS	Project Title CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES	Project Number 539-21-701		
				Approved: Project Director	FULLY SPRINKLERED	Location 3200 VINE ST., CINCINNATI, OH	Building Number 1		
						Issue Date 04-MAY-2022	Checked	Drawn CL / KW	Drawing Number MD-406-C.1.5

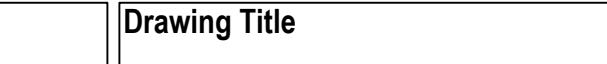





GENERAL NOTES

- WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
- REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.

KEYED NOTES

- DEMOLISH RETURN GRILLE.
- DEMOLISH EXISTING CABINET UNIT HEATER. DEMOLISH PIPING TO BELOW FLOOR AND CAP. STEAM PIPING INSULATION ON FLOOR BELOW MAY CONTAIN ASBESTOS. PATCH OPENINGS IN FLOORS. REPAIR TO MATCH EXISTING.

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT				Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
			 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		 C O M P A N Y 8718 Botts Lane Phone: (210) 816-4784 San Antonio, Texas 78217 Fax: (210) 881-6808 www.hfscorporation.com jbianco@hfscorporation.com		 U.S. Department of Veterans Affairs		ENLARGED FLOOR PLANS - SIXTH FLOOR		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701			
					Approved: Project Director		FULLY SPRINKLERED		Location		Drawing Number							
				3200 VINE ST., CINCINNATI, OH		MD-407-C.1.6												
				Issue Date					Checked		Drawn							
				04-MAY-2022							CL / KW							

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1 OCCUPATIONAL THERAPY A732 - DEMO

Scale: 1/4" = 1'

GENERAL NOTES

1. WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.

2. REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.

KEYED NOTES

1. DEMOLISH EXISTING CABINET UNIT HEATER. DEMOLISH PIPING TO BELOW FLOOR AND CAP. STEAM PIPING INSULATION ON FLOOR BELOW MAY CONTAIN ASBESTOS.

2. PATCH OPENINGS IN FLOORS. REPAIR TO MATCH EXISTING.

3. MEASURE AIRFLOWS OF ALL SUPPLY DIFFUSERS ON THIS SYSTEM PRIOR TO CONSTRUCTION. EVENLY RE-BALANCE EXISTING SUPPLY DIFFUSERS TO REMAIN TO MATCH THE PRE-CONSTRUCTION TOTAL SYSTEM AIRFLOW.

4. REMOVE EXISTING THERMOSTAT AND INSTALL IN NEW LOCATION AS SHOWN IN M-408-C.1.7.

5. EXISTING PIPES TO REMAIN.

6. EXISTING PIPING SERVING CUH ON FLOOR ABOVE TO REMAIN.

7. MOVE RETURN GRILLES TO BE WITHIN NEW A732 WALLS AS SHOWN IN M-408-C.1.7.

8. MOVE SUPPLY DIFFUSER TO BE WITHIN NEW A732 WALLS AS SHOWN IN M-408-C.1.7.

9. DEMOLISH SUPPLY DIFFUSER. DEMOLISH SUPPLY DUCT BACK TO NEW A732 WALLS AS SHOWN IN M-408-C.1.7 AND CAP.

Revisions:

Date:

CONSULTANT

Ross & Baruzzini

6 SOUTH OLD ORCHARD
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COREY LECHER
No. PE11800763
STATE OF INDIANA
PROFESSIONAL ENGINEER

Corey Lecher

Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

ENLARGED FLOOR PLAN - SEVENTH FLOOR

Approved: Project Director

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES

Location3200 VINE ST., CINCINNATI, OH

Issue Date04-MAY-2022

Checked

DrawnCL / KW

Project Number539-21-701

Building Number1

Drawing NumberMD-408-C.1.7


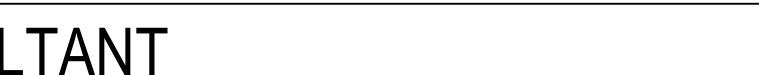


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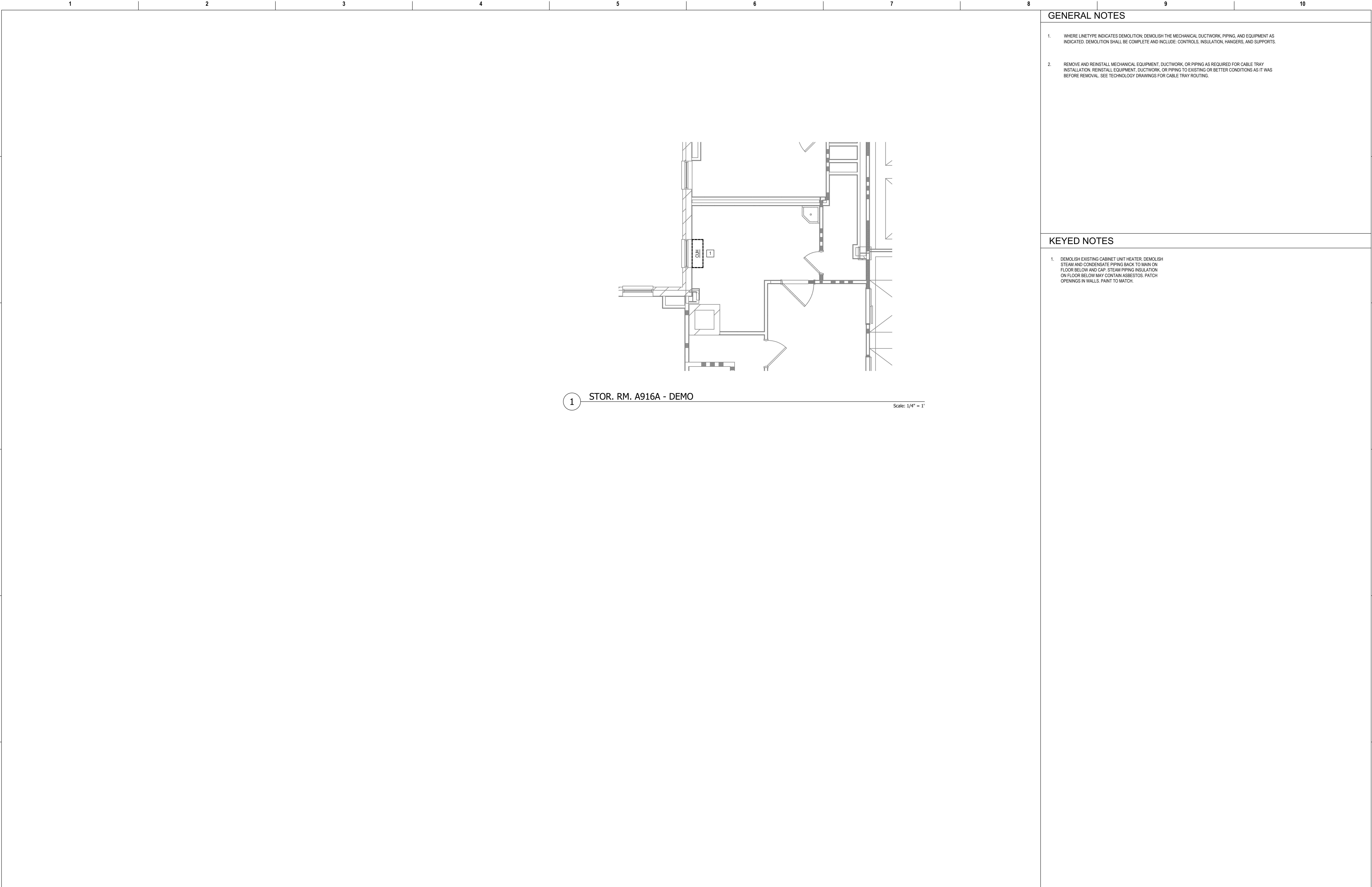


Scale: 1/4" = 1'

1. WHERE (LINE TYPE INDICATES DEMOLITION; DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS
2. REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.

1. DEMOLISH EXISTING CABINET UNIT HEATER. DEMOLISH STEAM AND CONDENSATE PIPING BACK TO MAIN ON FLOOR BELOW AND CAP. STEAM PIPING INSULATION ON FLOOR BELOW MAY CONTAIN ASBESTOS.
2. PATCH OPENINGS IN WALLS. PAINT TO MATCH.
3. DEMOLISH EXISTING FAN COIL UNIT. DEMOLISH PIPING BACK TO MAIN AND CAP. PIPING INSULATION MAY CONTAIN ASBESTOS.
4. DEMOLISH EXHAUST AIR DUCT OUTSIDE OF ROOM AND CAP.
5. EXISTING PIPING TO REMAIN.

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT			Construction and Facilities Management	Drawing Title		Phase	Project Title		Project Number		
			 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		 C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com				ENLARGED FLOOR PLAN - EIGHTH FLOOR		100% CONSTRUCTION DOCUMENTS	CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701		
								VA U.S. Department of Veterans Affairs	Approved: Project Director		FULLY SPRINKLERED	Location		Building Number		
												3200 VINE ST., CINCINNATI, OH		1		
												Issue Date		Checked	Drawn	Drawing Number
												04-MAY-2022			CL / KW	



GENERAL NOTES

- WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
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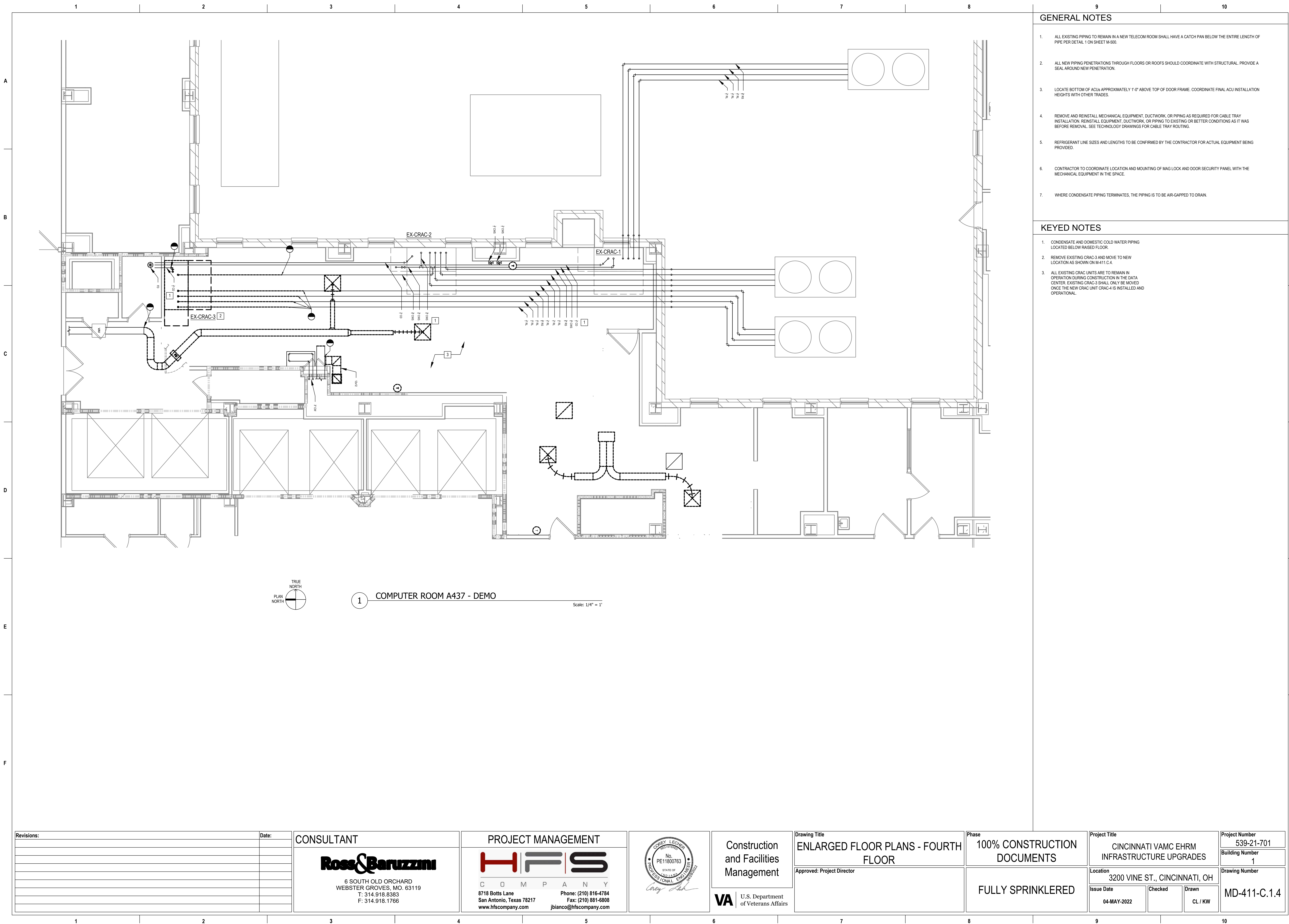
KEYED NOTES

- DEMOLISH EXISTING CABINET UNIT HEATER. DEMOLISH STEAM AND CONDENSATE PIPING BACK TO MAIN ON FLOOR BELOW AND CAP. STEAM PIPING INSULATION ON FLOOR BELOW MAY CONTAIN ASBESTOS. PATCH OPENINGS IN WALLS. PAINT TO MATCH.

1 STOR. RM. A916A - DEMO

Scale: 1/4" = 1'

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT				Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
											ENLARGED FLOOR PLANS - NINTH FLOOR		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701	
			6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com		Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com		U.S. Department of Veterans Affairs		Approved: Project Director				3200 VINE ST., CINCINNATI, OH		Building Number 1	
													FULLY SPRINKLERED		Issue Date 04-MAY-2022		Checked	
															Drawn CL / KW		Drawing Number MD-410-C.1.9	

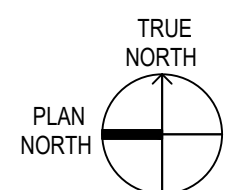


GENERAL NOTES

1. ALL EXISTING PIPING TO REMAIN IN A NEW TELECOM ROOM SHALL HAVE A CATCH PAN BELOW THE ENTIRE LENGTH OF PIPE PER DETAIL 1 ON SHEET M-500.
2. ALL NEW PIPING PENETRATIONS THROUGH FLOORS OR ROOFS SHOULD COORDINATE WITH STRUCTURAL. PROVIDE A SEAL AROUND NEW PENETRATION.
3. LOCATE BOTTOM OF ACUs APPROXIMATELY 1'-0" ABOVE TOP OF DOOR FRAME. COORDINATE FINAL ACU INSTALLATION HEIGHTS WITH OTHER TRADES.
4. REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.
5. REFRIGERANT LINE SIZES AND LENGTHS TO BE CONFIRMED BY THE CONTRACTOR FOR ACTUAL EQUIPMENT BEING PROVIDED.
6. CONTRACTOR TO COORDINATE LOCATION AND MOUNTING OF MAG LOCK AND DOOR SECURITY PANEL WITH THE MECHANICAL EQUIPMENT IN THE SPACE.
7. WHERE CONDENSATE PIPING TERMINATES, THE PIPING IS TO BE AIR-GAPPED TO DRAIN.

KEYED NOTES

1. CONDENSATE AND DOMESTIC COLD WATER PIPING LOCATED BELOW RAISED FLOOR.
2. REMOVE EXISTING CRAC-3 AND MOVE TO NEW LOCATION AS SHOWN ON M-411.C.4.
3. ALL EXISTING CRAC UNITS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION IN THE DATA CENTER. EXISTING CRAC-3 SHALL ONLY BE MOVED ONCE THE NEW CRAC UNIT CRAC-4 IS INSTALLED AND OPERATIONAL.



1 COMPUTER ROOM A437 - DEMO

Scale: 1/4" = 1'

Revisions:	Date:

CONSULTANT

Ross & Baruzzini

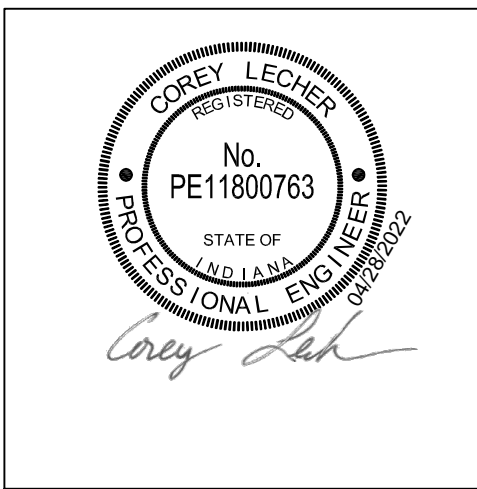
6 SOUTH OLD ORCHARD
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www.hfscorporation.com jbianco@hfscorporation.com



Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title

ENLARGED FLOOR PLANS - FOURTH
FLOOR

Approved: Project Director

Phase

100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title

CINCINNATI VAMC EHRM
INFRASTRUCTURE UPGRADES

Location 3200 VINE ST., CINCINNATI, OH

Issue Date 04-MAY-2022

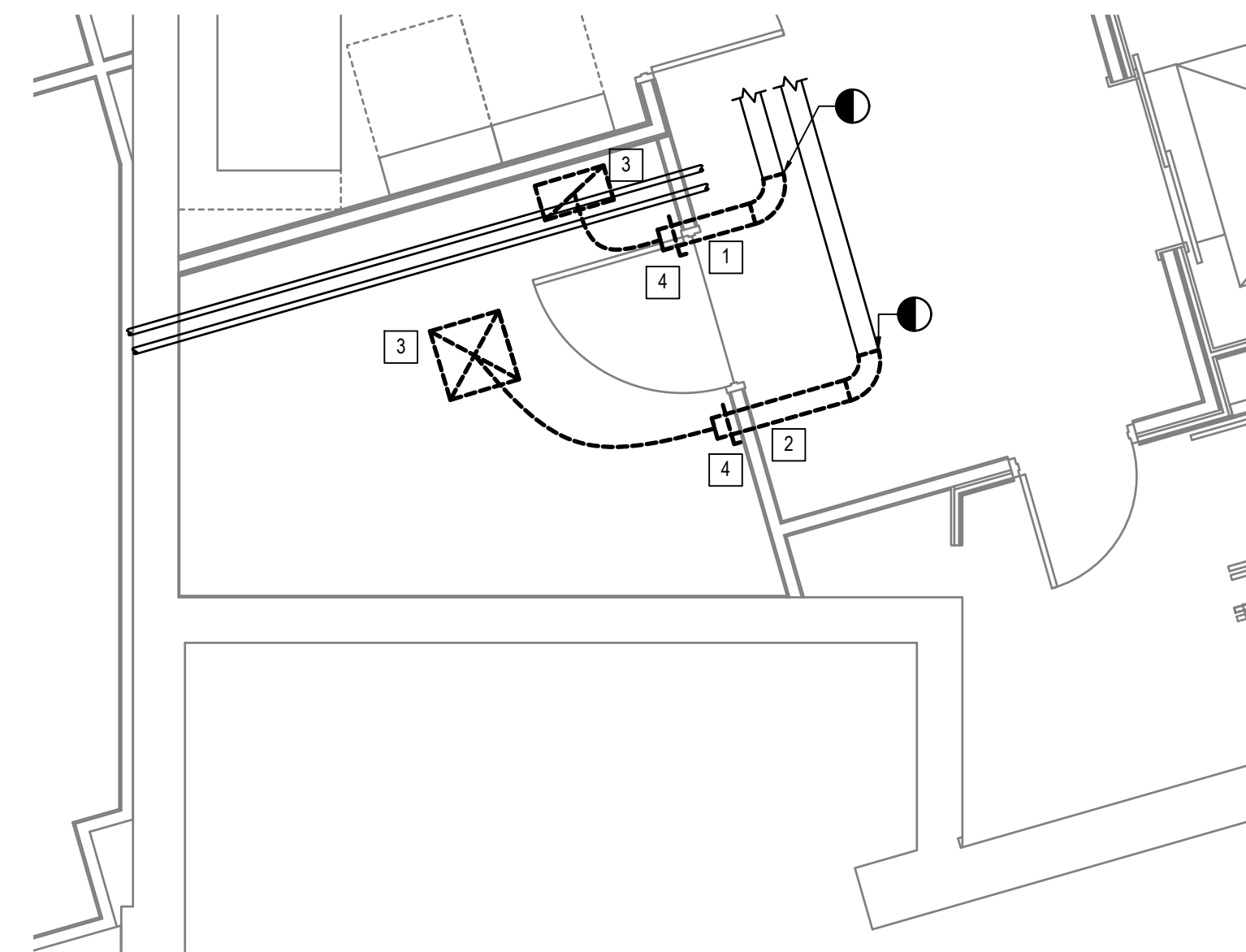
Checked

Drawn CL / KW

Project Number 539-21-701

Building Number 1

Drawing Number MD-411-C.1.4



1 STORAGE 0001 - DEMO

Scale: 1/4" = 1'

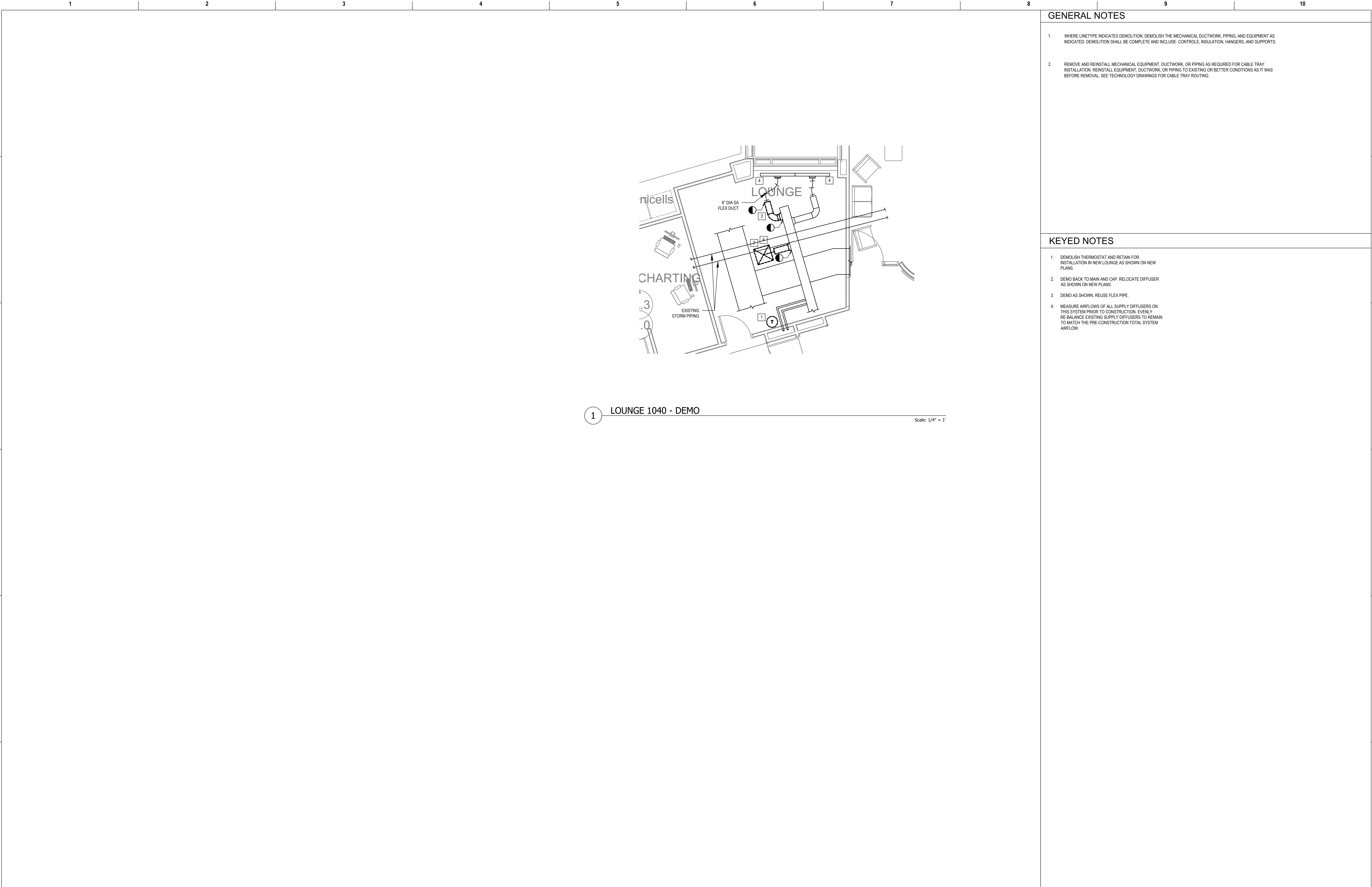
GENERAL NOTES

1. WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
2. REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.

KEYED NOTES

1. DEMO RETURN AIR DUCT BACK TO ELBOW AND CAP.
2. DEMO SUPPLY AIR DUCT BACK TO ELBOW AND CAP.
3. DEMO SUPPLY AND RETURN AIR DIFFUSERS.
4. PATCH OPENINGS IN WALLS. PAINT TO MATCH.

Revisions:	Date:	CONSULTANT <div>Ross & Baruzzini</div> 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314-918-8383 F: 314-918-1766 www.hfscompany.com	PROJECT MANAGEMENT <div>HFS</div> C O M P A N Y 8718 Botts Lane Phone: (210) 816-4784 San Antonio, Texas 78217 Fax: (210) 881-6808 www.hfscompany.com jbianco@hfscompany.com	<div><div><div>COREY LECHER</div><div>2017-2022</div><div>NO. PE11800763</div><div>STATE OF MISSOURI</div><div>PROFESSIONAL ENGINEER</div></div><div>Corey Lecher</div></div>	Construction and Facilities Management	<div>VA</div> <div>U.S. Department of Veterans Affairs</div>	Drawing Title	Phase	Project Title	Project Number	
	ENLARGED FLOOR PLANS - BASEMENT						100% CONSTRUCTION DOCUMENTS	CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES	539-21-701		
	Approved: Project Director							Location	Building Number		
								3200 VINE ST., CINCINNATI, OH	2		
								Issue Date	Checked	Drawn	Drawing Number
								04-MAY-2022		CL / KW	MD-420-C.2.B



GENERAL NOTES





- WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
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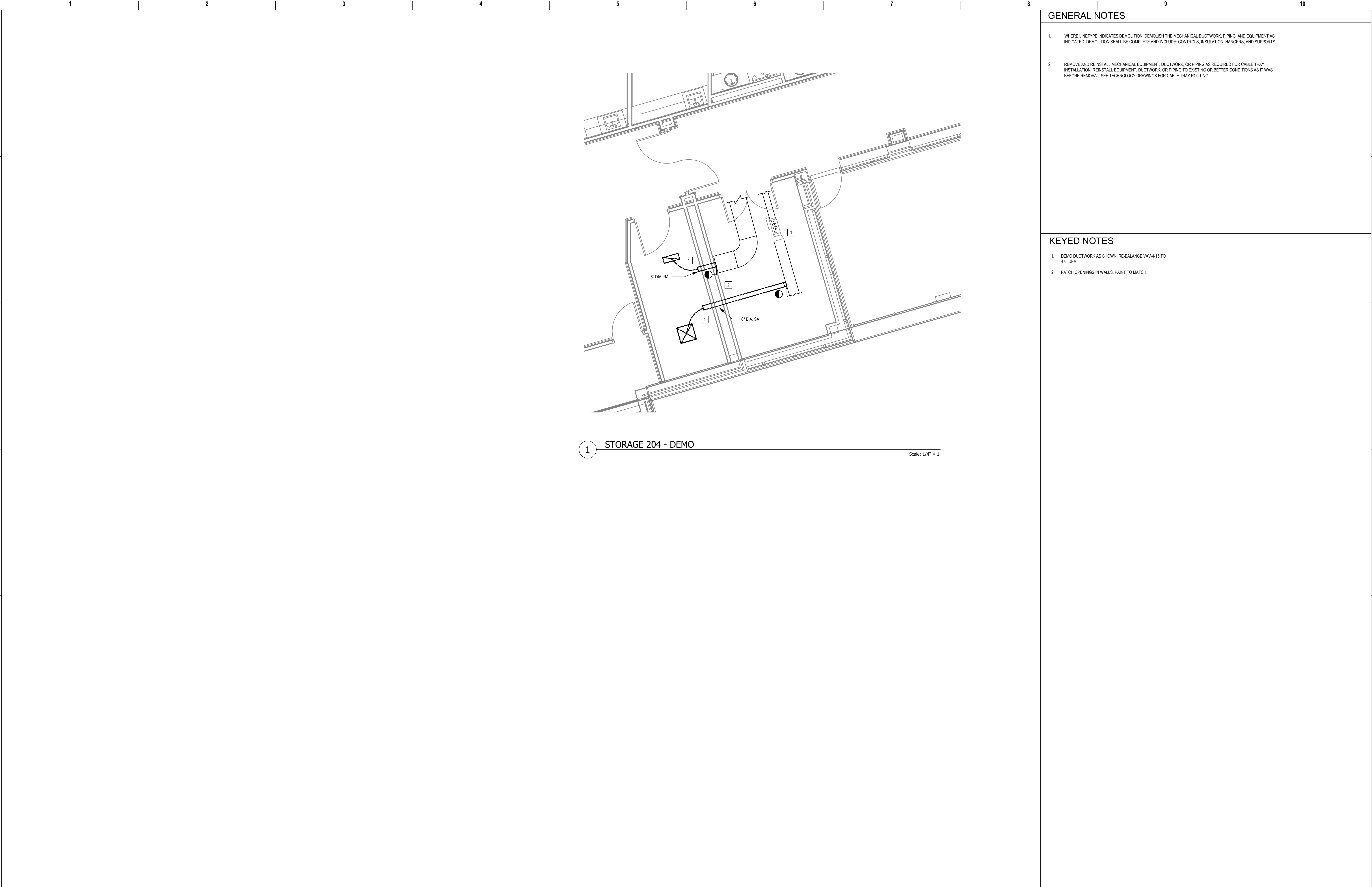
KEYED NOTES

- DEMOLISH THERMOSTAT AND RETAIN FOR INSTALLATION IN NEW LOUNGE AS SHOWN ON NEW PLANS.
- DEMO BACK TO MAIN AND CAP. RELOCATE DIFFUSER AS SHOWN ON NEW PLANS.
- DEMO AS SHOWN. REUSE FLEX PIPE.
- MEASURE AIRFLOWS OF ALL SUPPLY DIFFUSERS ON THIS SYSTEM PRIOR TO CONSTRUCTION. EVENLY RE-BALANCE EXISTING SUPPLY DIFFUSERS TO REMAIN TO MATCH THE PRE-CONSTRUCTION TOTAL SYSTEM AIRFLOW.

1 LOUNGE 1040 - DEMO

Scale: 1/4" = 1'

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT				Construction and Facilities Management		Drawing Title ENLARGED FLOOR PLANS - FIRST LEVEL		Phase 100% CONSTRUCTION DOCUMENTS		Project Title CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES			Project Number 539-21-701	
			 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		 C O M P A N Y 8718 Botts Lane Phone: (210) 816-4784 San Antonio, Texas 78217 Fax: (210) 881-6608 www.hfscorporation.com jbianco@hfscorporation.com		 U.S. Department of Veterans Affairs				Approved: Project Director		FULLY SPRINKLERED		Location 3200 VINE ST., CINCINNATI, OH			Building Number 2	
															Issue Date 04-MAY-2022			Checked	
															Drawn CL / KW				





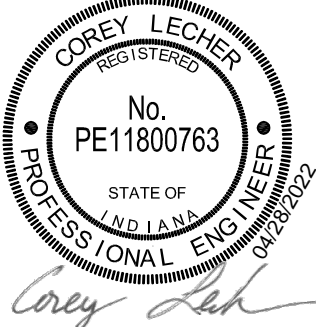
GENERAL NOTES

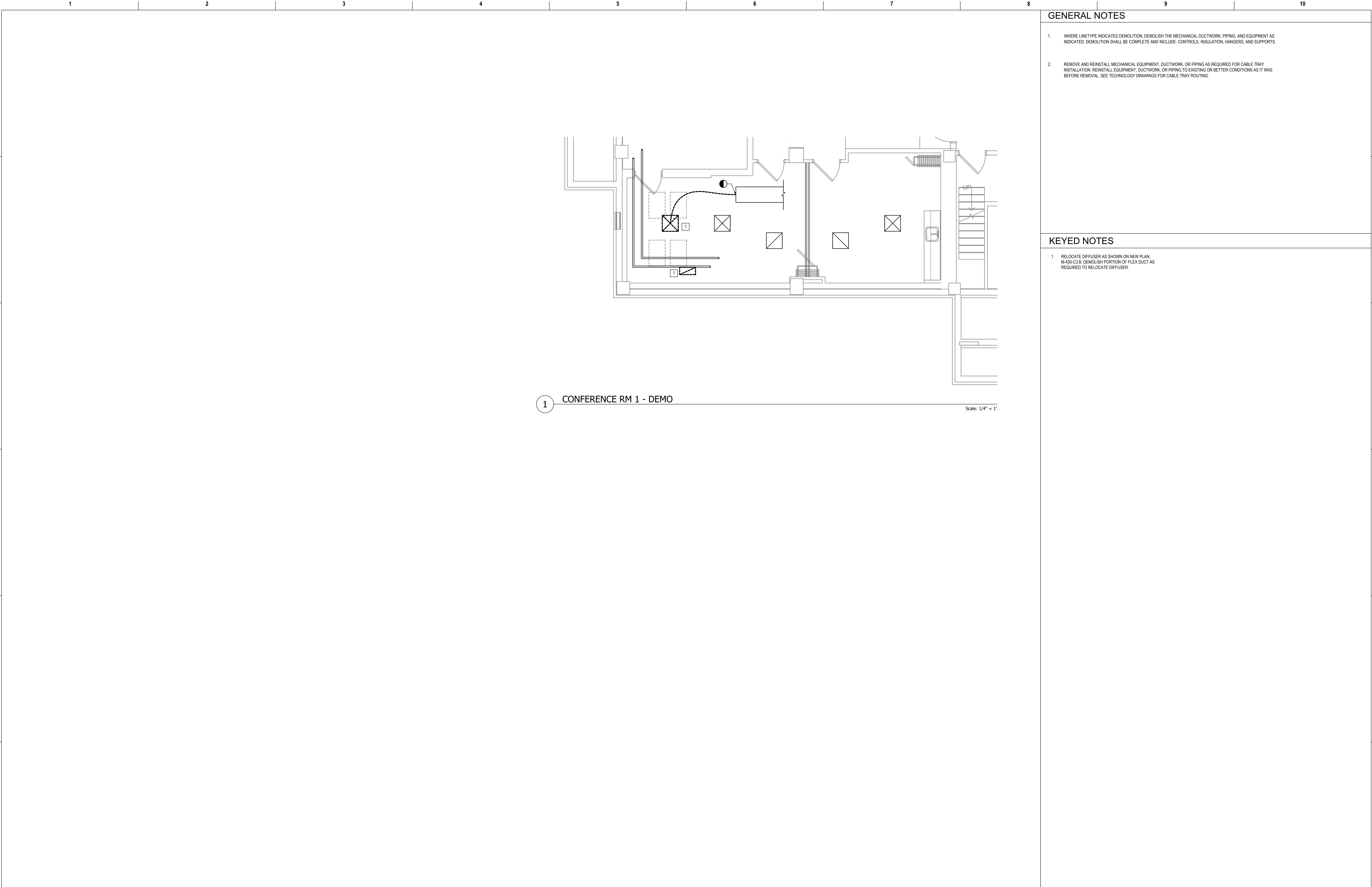
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KEYED NOTES

- DEMO DUCTWORK AS SHOWN. RE-BALANCE VAV-4-15 TO 475 CFM.
- PATCH OPENINGS IN WALLS. PAINT TO MATCH.

1 STORAGE 204 - DEMO
Scale: 1/4" = 1'

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT		Drawing Title		Phase	Project Title		Project Number	
			 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		 C O M P A N Y 8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com		ENLARGED FLOOR PLANS - SECOND LEVEL		100% CONSTRUCTION DOCUMENTS	CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701	
							Approved: Project Director		FULLY SPRINKLERED	Location 3200 VINE ST., CINCINNATI, OH		Building Number 2	
										Issue Date 04-MAY-2022		Drawing Number MD-422-C.2.2	
										Checked		Drawn	
												CL / KW	
					 Corey Lecher		Construction and Facilities Management			U.S. Department of Veterans Affairs			



1 CONFERENCE RM 1 - DEMO

Scale: 1/4" = 1'

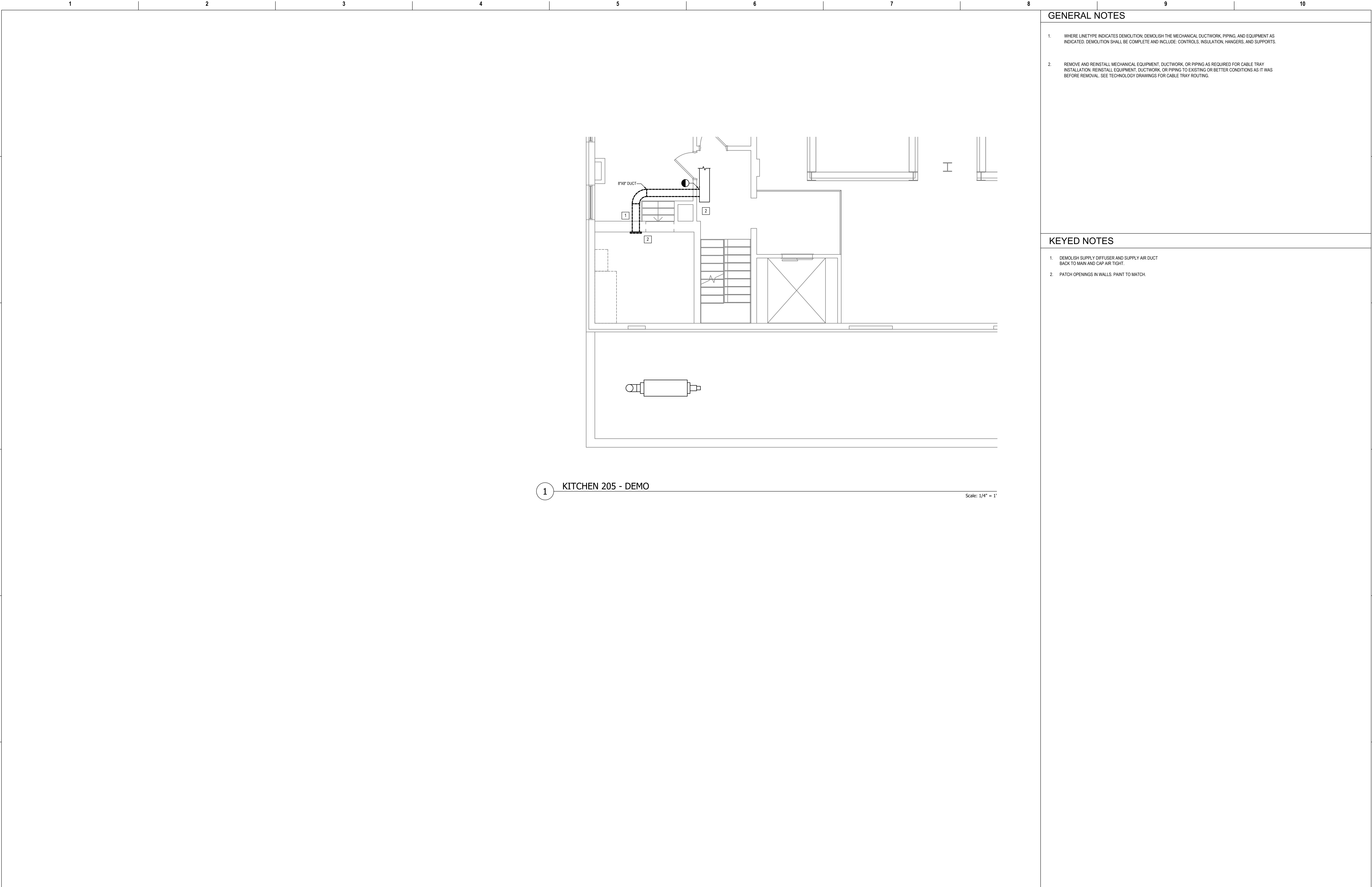
GENERAL NOTES

- 1. WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
- 2. REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.

KEYED NOTES

- 1. RELOCATE DIFFUSER AS SHOWN ON NEW PLAN, M-430-C3.B. DEMOLISH PORTION OF FLEX DUCT AS REQUIRED TO RELOCATE DIFFUSER.

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT			Construction and Facilities Management	Drawing Title		Phase	Project Title		Project Number		
									ENLARGED FLOOR PLANS - BASEMENT		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701	
			6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		8718 Botts Lane San Antonio, Texas 78217 www.hfscorporation.com				Approved: Project Director		FULLY SPRINKLERED		Location 3200 VINE ST., CINCINNATI, OH		Building Number 3	
					Phone: (210) 816-4784 Fax: (210) 881-6808 jbianco@hfscorporation.com								Issue Date 04-MAY-2022		Drawn CL / KW	
													MD-430-C.3.B			



GENERAL NOTES





- WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
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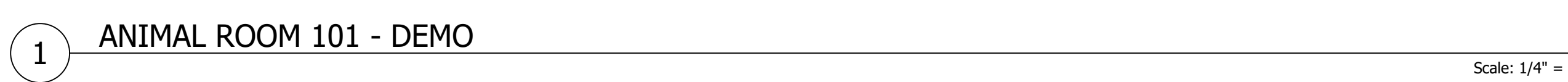
KEYED NOTES

- DEMOLISH SUPPLY DIFFUSER AND SUPPLY AIR DUCT BACK TO MAIN AND CAP AIR TIGHT.
- PATCH OPENINGS IN WALLS. PAINT TO MATCH.

1 KITCHEN 205 - DEMO


Scale: 1/4" = 1'

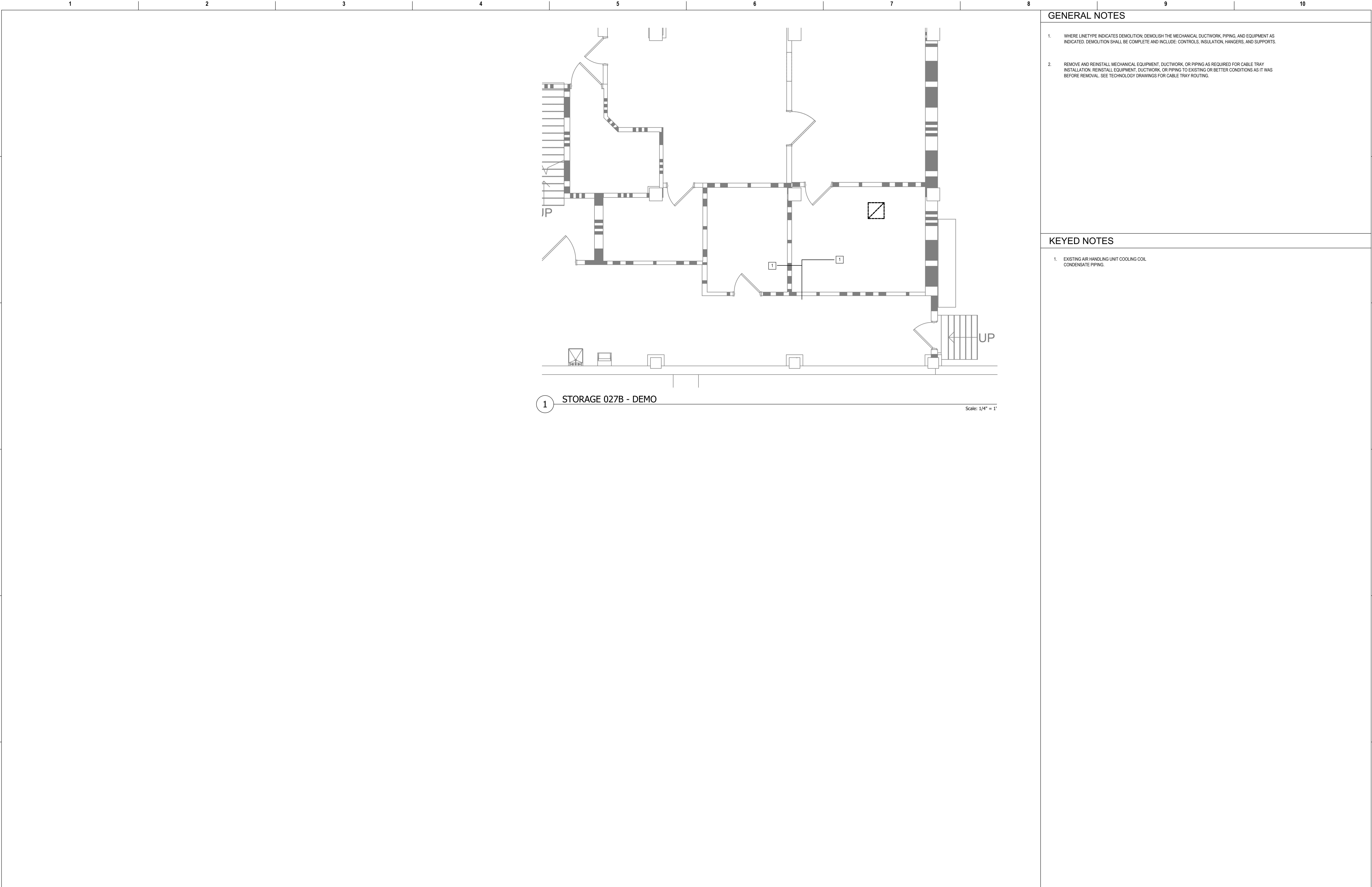
Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT				Construction and Facilities Management		Drawing Title ENLARGED FLOOR PLANS - SECOND FLOOR		Phase 100% CONSTRUCTION DOCUMENTS		Project Title CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES			Project Number 539-21-701	
			 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		 C O M P A N Y 8718 Botts Lane Phone: (210) 816-4784 San Antonio, Texas 78217 Fax: (210) 881-6808 www.hfscorporation.com jbianco@hfscorporation.com				VA U.S. Department of Veterans Affairs		Approved: Project Director		FULLY SPRINKLERED		Location 3200 VINE ST., CINCINNATI, OH			Building Number 8	
		Drawing Number MD-440-C.8.2																	



1. WHERE LINE TYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
2. REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.

1. DEMOLISH ALL EXISTING LAB CONTROLS AND SENSORS.
2. MEASURE AIRFLOW OF EXISTING DIFFUSER TO REMAIN PRIOR TO CONSTRUCTION. ADJUST VAV AIRFLOW TO CFM OF DIFFUSER TO REMAIN.

Revisions:	Date:	CONSULTANT Ross & Baruzzini 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314-918-8383 F: 314-918-1766 www.hfscompany.com	PROJECT MANAGEMENT H F S C O M P A N Y 8718 Botts Lane Phone: (210) 816-4784 San Antonio, Texas 78217 Fax: (210) 881-6808 www.hfscompany.com jbianco@hfscompany.com	 <i>Corey Lecher</i>	Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title	ENLARGED FLOOR PLANS - FIRST FLOOR	Phase	100% CONSTRUCTION DOCUMENTS	Project Title	CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES	Project Number	539-21-701				
											Bidding Number	15					
											Drawing Number						
											Location	3200 VINE ST., CINCINNATI, OH					
											Issue Date	04-MAY-2022	Checked		Drawn	CL / KW	MD-450-C.15.1
								FULLY SPRINKLERED									






GENERAL NOTES

- WHERE LINETYPE INDICATES DEMOLITION, DEMOLISH THE MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT AS INDICATED. DEMOLITION SHALL BE COMPLETE AND INCLUDE: CONTROLS, INSULATION, HANGERS, AND SUPPORTS.
- REMOVE AND REINSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING AS REQUIRED FOR CABLE TRAY INSTALLATION. REINSTALL EQUIPMENT, DUCTWORK, OR PIPING TO EXISTING OR BETTER CONDITIONS AS IT WAS BEFORE REMOVAL. SEE TECHNOLOGY DRAWINGS FOR CABLE TRAY ROUTING.

KEYED NOTES

- EXISTING AIR HANDLING UNIT COOLING COIL CONDENSATE PIPING.

Revisions:		Date:	CONSULTANT		PROJECT MANAGEMENT				Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
			 6 SOUTH OLD ORCHARD WEBSTER GROVES, MO. 63119 T: 314.918.8383 F: 314.918.1766		 C O M P A N Y 8718 Botts Lane Phone: (210) 816-4784 San Antonio, Texas 78217 Fax: (210) 881-6808 www.hfscorporation.com jbianco@hfscorporation.com		VA U.S. Department of Veterans Affairs		ENLARGED FLOOR PLANS - BASEMENT		100% CONSTRUCTION DOCUMENTS		CINCINNATI VAMC EHRM INFRASTRUCTURE UPGRADES		539-21-701			
		Building Number																
		64																
		Drawing Number																
		MD-460-FT.64.B																
							Approved: Project Director		FULLY SPRINKLERED		Location		3200 VINE ST., CINCINNATI, OH					
											Issue Date		04-MAY-2022					
											Checked		Drawn					
													CL / KW					