

## A

## B

## C

D

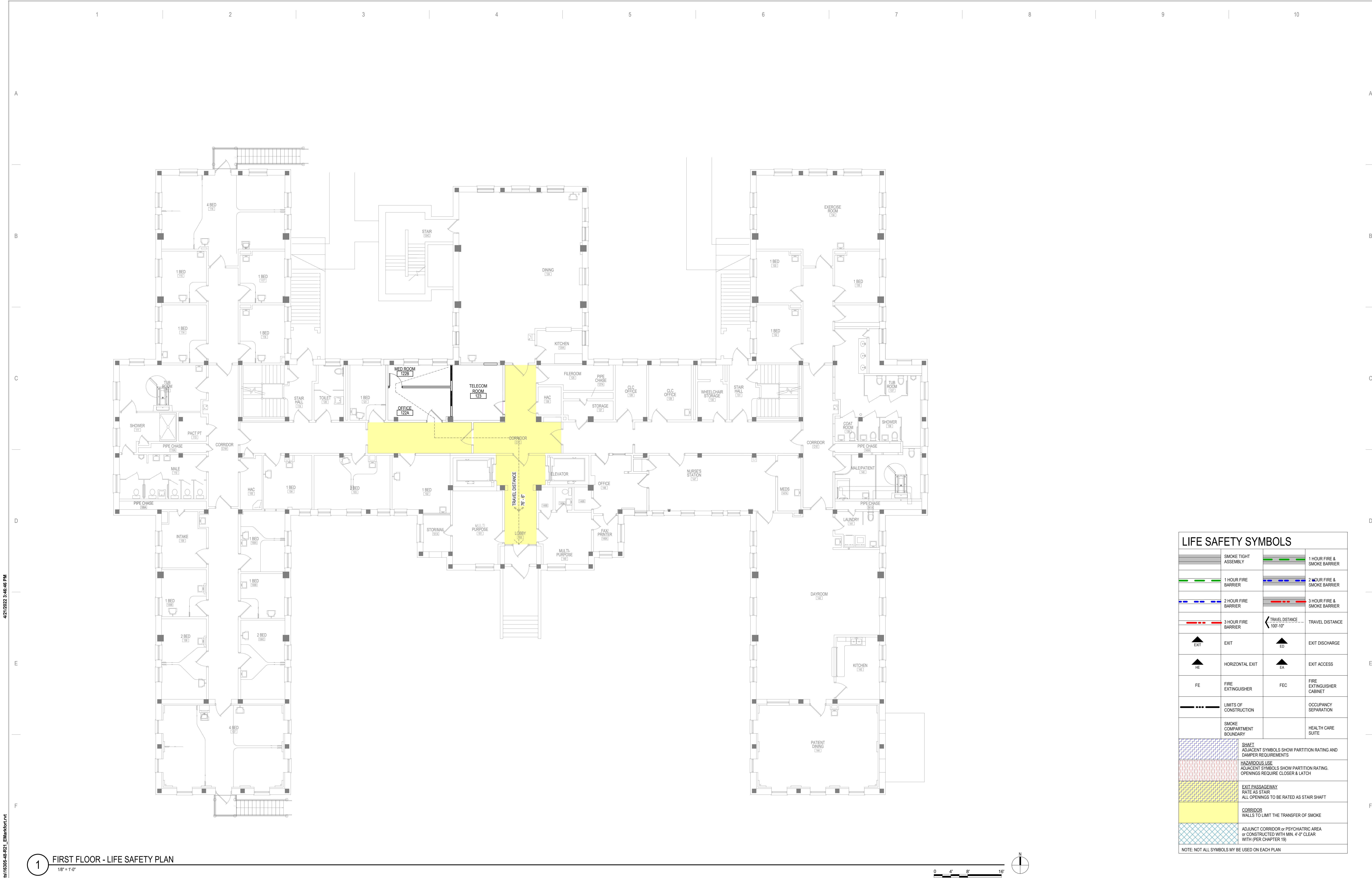
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## 1

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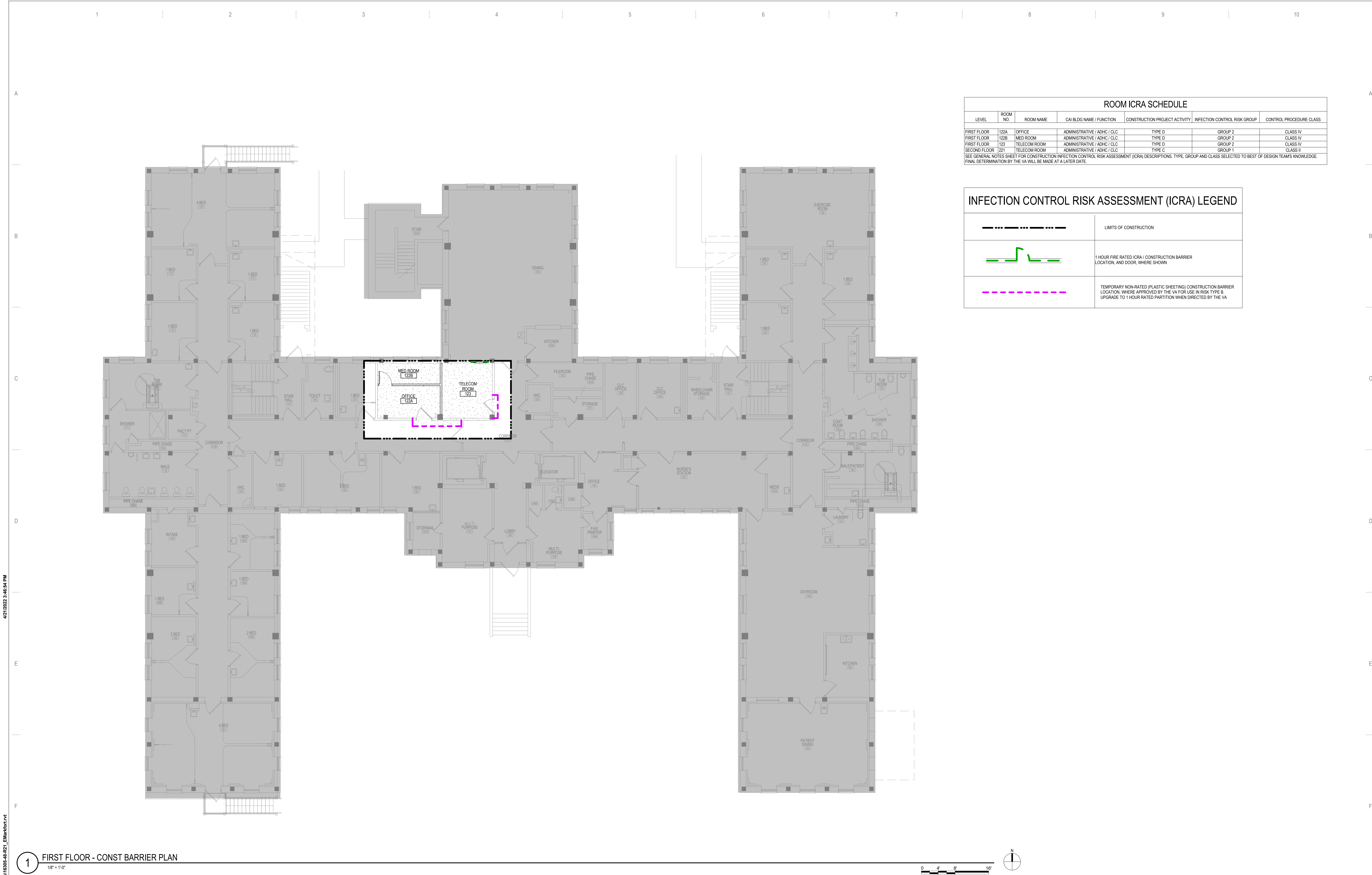
**U.S. Department  
of Veterans Affairs**  
Veterans Health  
Administration  
St. Cloud VA  
Health Care System



LIFE SAFETY SYMBOLS			
	SMOKE TIGHT ASSEMBLY		1 HOUR FIRE & SMOKE BARRIER
	1 HOUR FIRE BARRIER		2 HOUR FIRE & SMOKE BARRIER
	2 HOUR FIRE BARRIER		3 HOUR FIRE & SMOKE BARRIER
	3 HOUR FIRE BARRIER		TRAVEL DISTANCE
	EXIT		EXIT DISCHARGE
	HORIZONTAL EXIT		EXIT ACCESS
	FIRE EXTINGUISHER		FIRE EXTINGUISHER CABINET
	LIMITS OF CONSTRUCTION		OCCUPANCY SEPARATION
	SMOKE COMPARTMENT BOUNDARY		HEALTH CARE SUITE
	SHAFT ADJACENT SYMBOLS SHOW PARTITION RATING AND DAMPER REQUIREMENTS		
	HAZARDOUS USE ADJACENT SYMBOLS SHOW PARTITION RATING. OPENINGS REQUIRE CLOSER & LATCH		
	EXIT PASSAGEWAY RATE AS STAIR ALL OPENINGS TO BE RATED AS STAIR SHAFT		
	CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE		
	ADJUNCT CORRIDOR or PSYCHIATRIC AREA or CONSTRUCTED WITH MIN. 4'-0" CLEAR WITH (PER CHAPTER 19)		
NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN			

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

<div>CONSULTANT</div> <div> SPECIALIZED ENGINEERING SOLUTIONS</div> <div>10360 Ellison Circle Omaha, NE 68134 Phone: 402.991.5530 www.specializedeng.com</div>	<div>ARCHITECT/ENGINEER OF RECORD</div> <div></div> <div>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000   F 763.412.4090   <a href="http://ae-mn.com">ae-mn.com</a> Anderson Engineering of Minnesota, LLC   Proj # 16305</div>	<div>STAMP</div> <div>I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.</div> <div>Name: </div> <div>Typed or Printed Name: Tom Olesak Date: 03/30/2022 License Number: MN# 18157</div>	<div>DRAWING TITLE</div> <div>FIRST FLOOR - LIFE SAFETY PLAN</div>	<div>PROJECT FILE</div> <div>EHRM INFRASTRUCTURE UPGRADES</div> <div>DATE: 03/30/2022 PLOT SCALE: PROJECT NO: 656-21-235 DRAWING NO: 48-G110 BUILDING NO: 48 CHECKED BY: EM DRAWN BY: BMW LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303 FULLY SPRINKLERED DWS. OF</div>	<div> U.S. Department of Veterans Affairs Veterans Health Administration St. Cloud VA Health Care System</div>
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ROOM ICRA SCHEDULE						
LEVEL	ROOM NO.	ROOM NAME	CAI BLDG NAME / FUNCTION	CONSTRUCTION PROJECT ACTIVITY	INFECTION CONTROL RISK GROUP	CONTROL PROCEDURE CLASS
FIRST FLOOR	122A	OFFICE	ADMINISTRATIVE / ADHC / CLC	TYPE D	GROUP 2	CLASS IV
FIRST FLOOR	122B	MED ROOM	ADMINISTRATIVE / ADHC / CLC	TYPE D	GROUP 2	CLASS IV
FIRST FLOOR	123	TELECOM ROOM	ADMINISTRATIVE / ADHC / CLC	TYPE D	GROUP 2	CLASS IV
SECOND FLOOR	121	TELECOM ROOM	ADMINISTRATIVE / ADHC / CLC	TYPE C	GROUP 1	CLASS II

SEE GENERAL NOTES SHEET FOR CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA) DESCRIPTIONS. TYPE, GROUP AND CLASS SELECTED TO BEST OF DESIGN TEAM'S KNOWLEDGE. FINAL DETERMINATION BY THE VA WILL BE MADE AT A LATER DATE.

INFECTION CONTROL RISK ASSESSMENT (ICRA) LEGEND	
	LIMITS OF CONSTRUCTION
	1 HOUR FIRE RATED ICRA / CONSTRUCTION BARRIER LOCATION, AND DOOR, WHERE SHOWN
	TEMPORARY NON-RATED (PLASTIC SHEETING) CONSTRUCTION BARRIER LOCATION, WHERE APPROVED BY THE VA FOR USE IN RISK TYPE B. UPGRADE TO 1 HOUR RATED PARTITION WHEN DIRECTED BY THE VA

1 FIRST FLOOR - CONST BARRIER PLAN

No.	REVISION	DATE

CONSULTANT

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Omaha, NE 68134

Phone: 402.991.5520  
www.specializedeng.com

ARCHITECT/ENGINEER OF RECORD

**ANDERSON**

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Anderson Engineering of Minnesota, LLC | Proj # 16305

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Date: 03/30/2022 License Number: MN# 18157

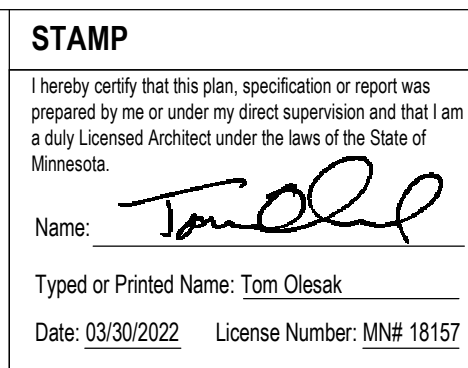
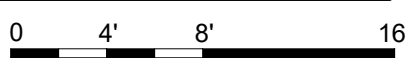
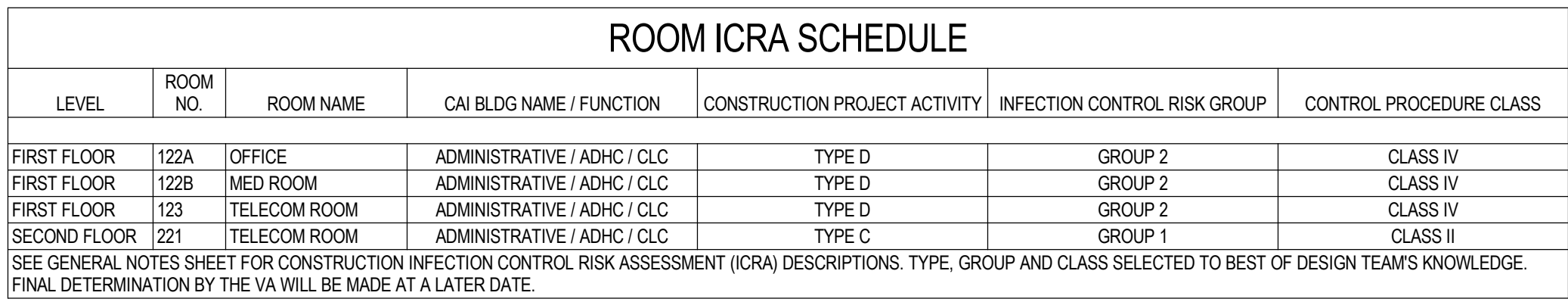
DRAWING TITLE

FIRST FLOOR - INFECTION CONTROL & PHASING PLAN

PROJECT FILE	DATE
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
PLOT SCALE	
PROJECT NO.	DRAWING NO.
656-21-235	48-G111
BUILDING NO.	CHECKED BY
48	EM
DRAWN	BMW
LOCATION	FULLY SPRINKLERED
VA MEDICAL CENTER ST. CLOUD, MN 56303	DWG. OF

**VA**

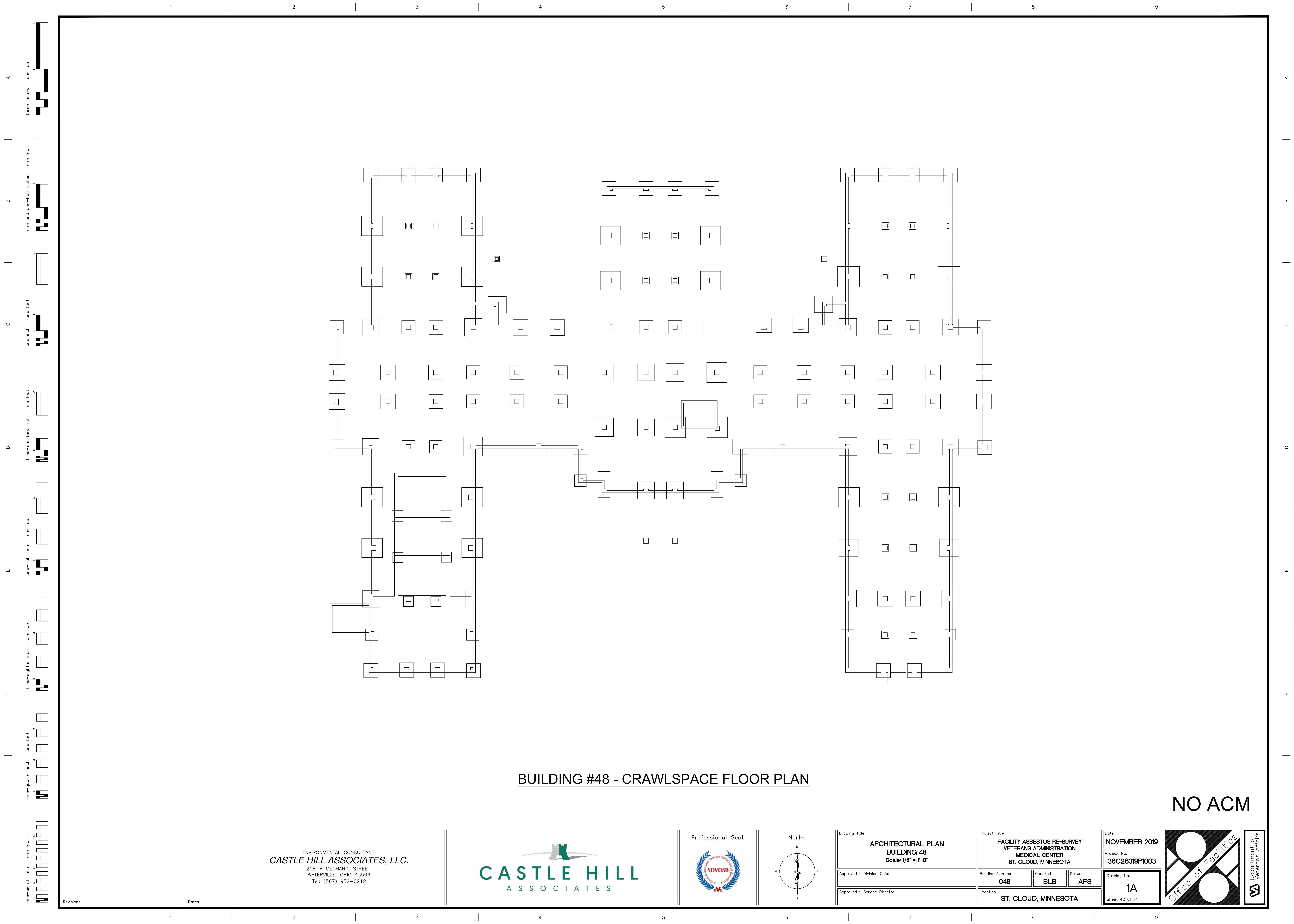
U.S. Department of Veterans Affairs  
Veterans Health Administration  
St. Cloud VA Health Care System



PROJECT TITLE <b>EHRM INFRASTRUCTURE UPGRADES</b>			DATE: <b>03/30/2022</b>	
			PLOT SCALE	
			PROJECT NO. <b>656-21-235</b>	
BUILDING NO <b>48</b>	CHECKED BY <b>EM</b>	DRAWN <b>BMW</b>	DRAWING NO <b>48-GI121</b>	
LOCATION VA MEDICAL CENTER ST.CLOUD, MN 56303			FULLY SPRINKLERED	
			DWG. OF	



**U.S. Department  
of Veterans Affairs**  
Veterans Health  
Administration  
St. Cloud VA  
Health Care System











BUILDING #48 - CRAWLSPACE FLOOR PLAN

NO ACM

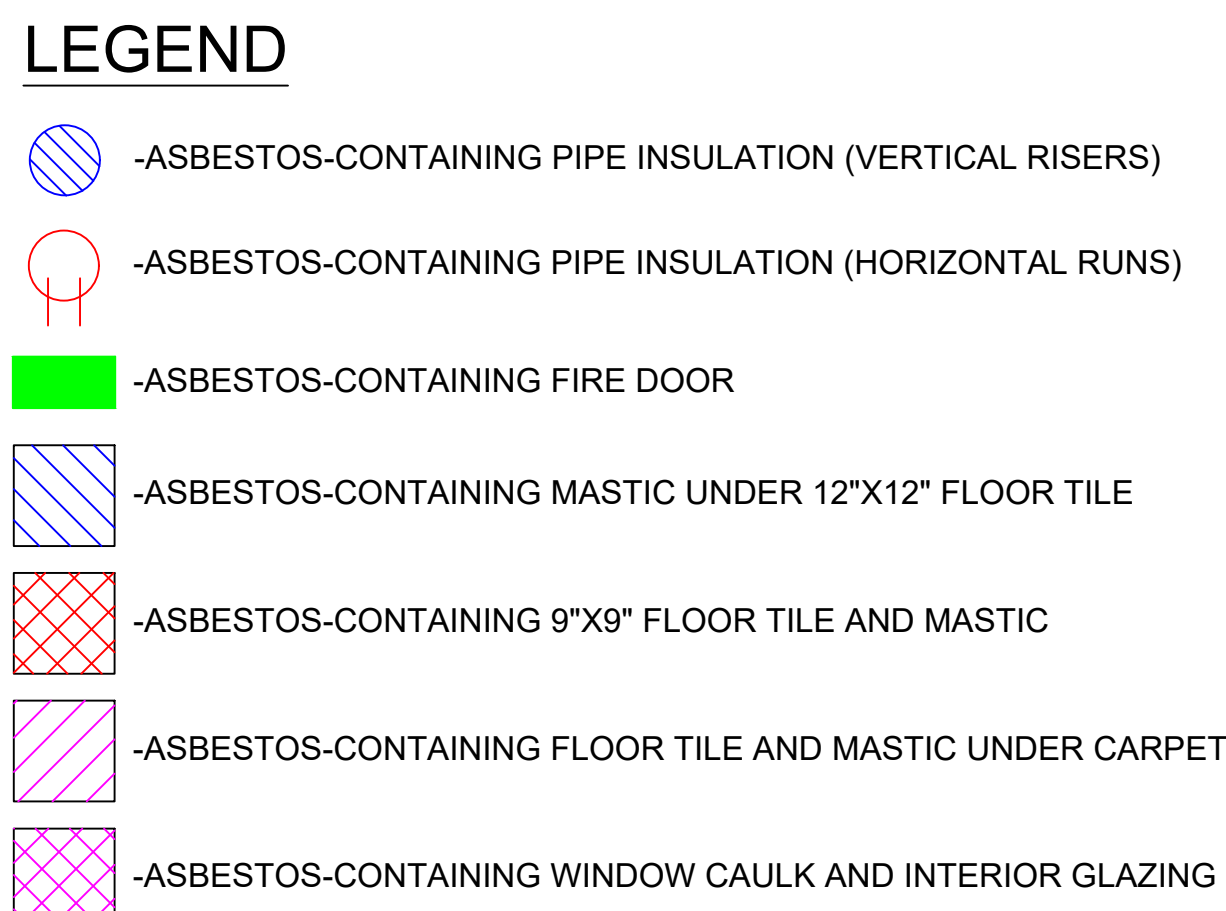
<div>Revisions</div>	<div>Dates</div>	<div>ENVIRONMENTAL CONSULTANT: <b>CASTLE HILL ASSOCIATES, LLC.</b> 218-A MECHANIC STREET, WATERVILLE, OHIO 43566 Tel: (567) 952-0212</div>	<div> <b>CASTLE HILL</b> ASSOCIATES</div>	<div>Professional Seal: </div>	<div>North: </div>	<div>Drawing Title <b>ARCHITECTURAL PLAN BUILDING 48 Scale: 1/8" = 1'-0"</b></div>	<div>Project Title <b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b></div>	<div>Date <b>NOVEMBER 2019</b></div>	<div></div>	<div>Department of Veterans Affairs </div>
						<div>Approved : Division Chief</div>	<div>Building Number <b>048</b></div>	<div>Checked <b>BLB</b></div>		

### LEGEND

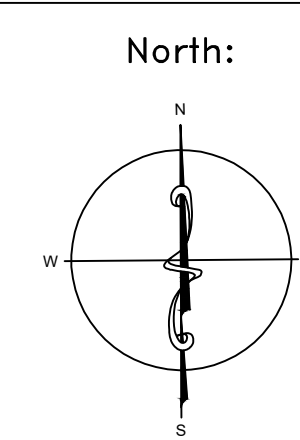
-  -ASBESTOS-CONTAINING PIPE INSULATION (VERTICAL RISERS)
-  -ASBESTOS-CONTAINING PIPE INSULATION (HORIZONTAL RUNS)
-  -ASBESTOS-CONTAINING FIRE DOOR
-  -ASBESTOS-CONTAINING MASTIC UNDER 12"X12" FLOOR TILE
-  -ASBESTOS-CONTAINING MASTIC UNDER CARPET
-  -ASBESTOS-CONTAINING WINDOW CAULK AND INTERIOR GLAZING
-  -ASBESTOS-CONTAINING VENT CAULK
-  -ASBESTOS-CONTAINING BRICK SEAM CAULK

## BUILDING #48 - BASEMENT FLOOR PLAN

		ENVIRONMENTAL CONSULTANT: <b>CASTLE HILL ASSOCIATES, LLC.</b> 218-A MECHANIC STREET, WATERVILLE, OHIO 43566 Tel: (567) 952-0212	 <b>CASTLE HILL</b> ASSOCIATES	Professional Seal: 	North: 	Drawing Title <b>ARCHITECTURAL PLAN BUILDING 48 Scale: 1/8" = 1'-0"</b>	Project Title <b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b>	Date <b>NOVEMBER 2019</b>	 Department of Veterans Affairs		
						Approved : Division Chief	Building Number <b>048</b>	Checked <b>BLB</b>		Drawn <b>AFS</b>	Project No. <b>36C26319P1003</b>
Revisions	Dates					Approved : Service Director	Location <b>ST. CLOUD, MINNESOTA</b>	Drawing No. <b>2A</b>		Sheet 43 of 71	



ENVIRONMENTAL CONSULTANT:  
**CASTLE HILL ASSOCIATES, LLC.**  
218-A MECHANIC STREET,  
WATERVILLE, OHIO 43566  
Tel: (567) 952-0212

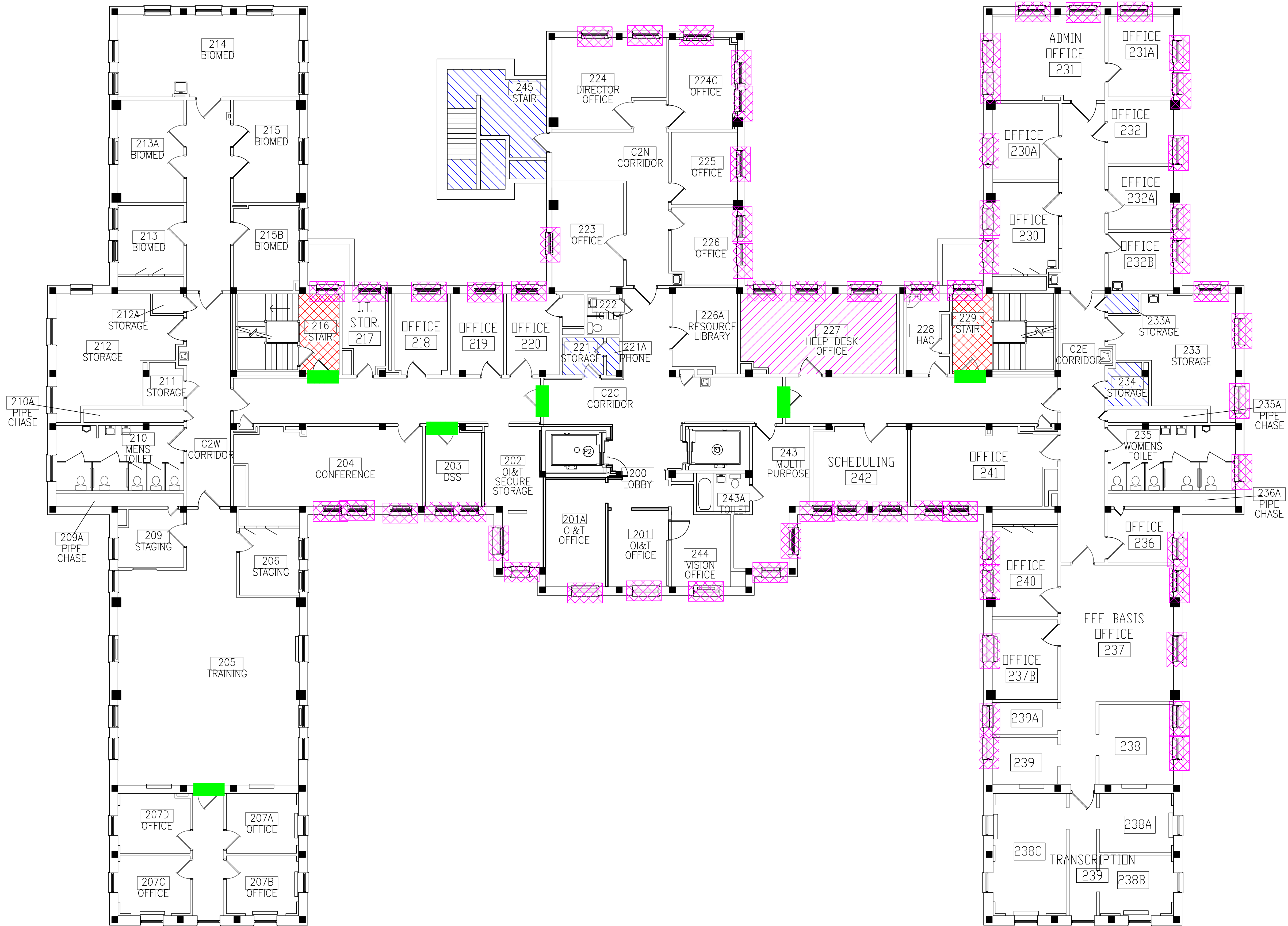


Approved : Service Director

3A  
Sheet 44 of 71



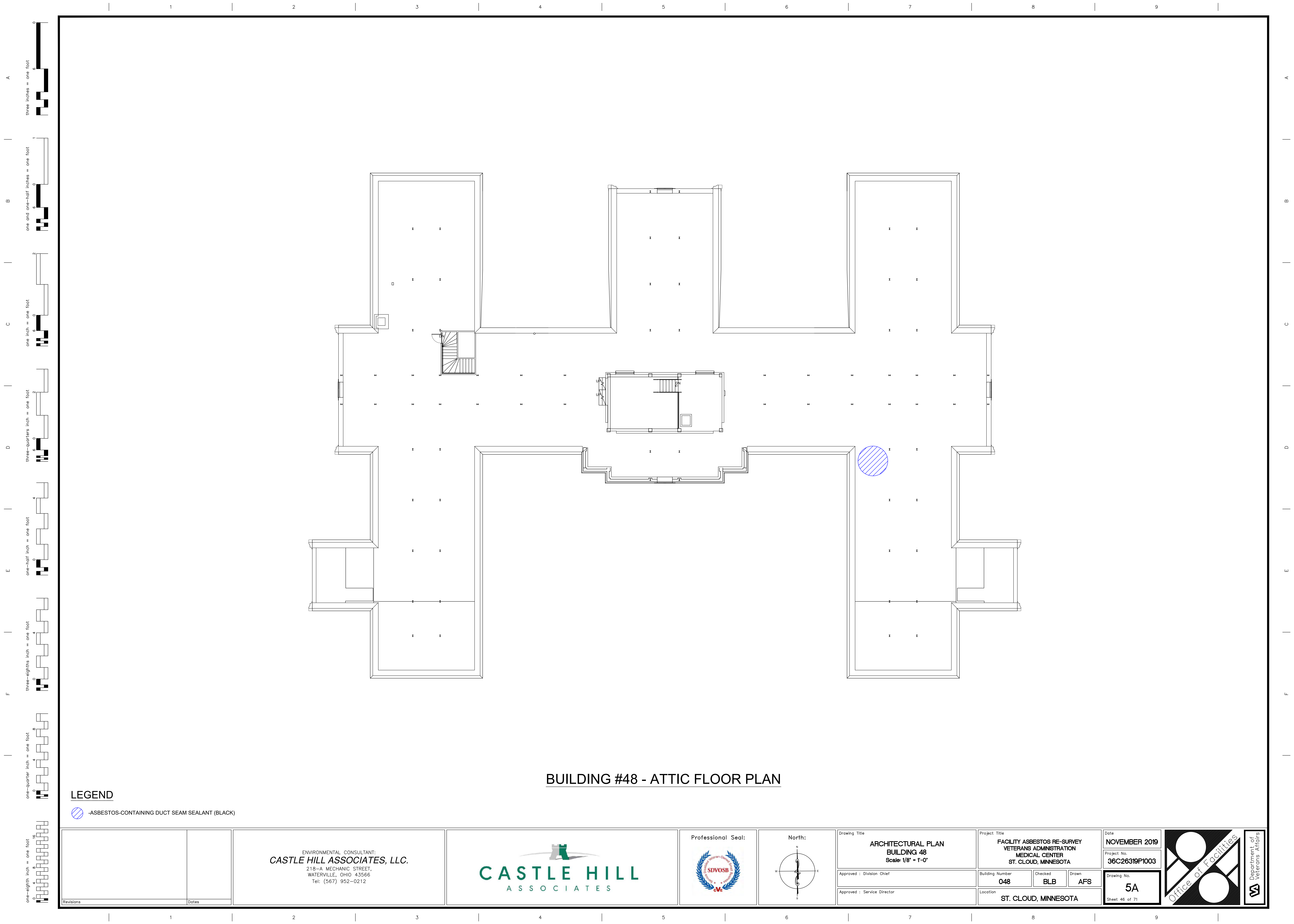
Department of  
Veterans Affairs



BUILDING #48 - SECOND FLOOR PLAN

- LEGEND**
- ASBESTOS-CONTAINING FIRE DOOR
  - ASBESTOS-CONTAINING MASTIC UNDER 12"x12" FLOOR TILE
  - ASBESTOS-CONTAINING 9"x9" FLOOR TILE AND MASTIC
  - ASBESTOS-CONTAINING FLOOR TILE AND MASTIC UNDER CARPET
  - ASBESTOS-CONTAINING WINDOW CAULK AND INTERIOR GLAZING

Revisions	Dates	ENVIRONMENTAL CONSULTANT: <b>CASTLE HILL ASSOCIATES, LLC.</b> 218-A MECHANIC STREET, WATERVILLE, OHIO 43566 Tel: (567) 952-0212		Professional Seal: 	North: 	Drawing Title <b>ARCHITECTURAL PLAN BUILDING 48 Scale: 1/8" = 1'-0"</b>	Project Title <b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b>	Date <b>NOVEMBER 2019</b>		Department of Veterans Affairs
						Approved : Division Chief	Building Number <b>048</b>	Checked <b>BLB</b>		
						Approved : Service Director	Location <b>ST. CLOUD, MINNESOTA</b>		Sheet 45 of 71	

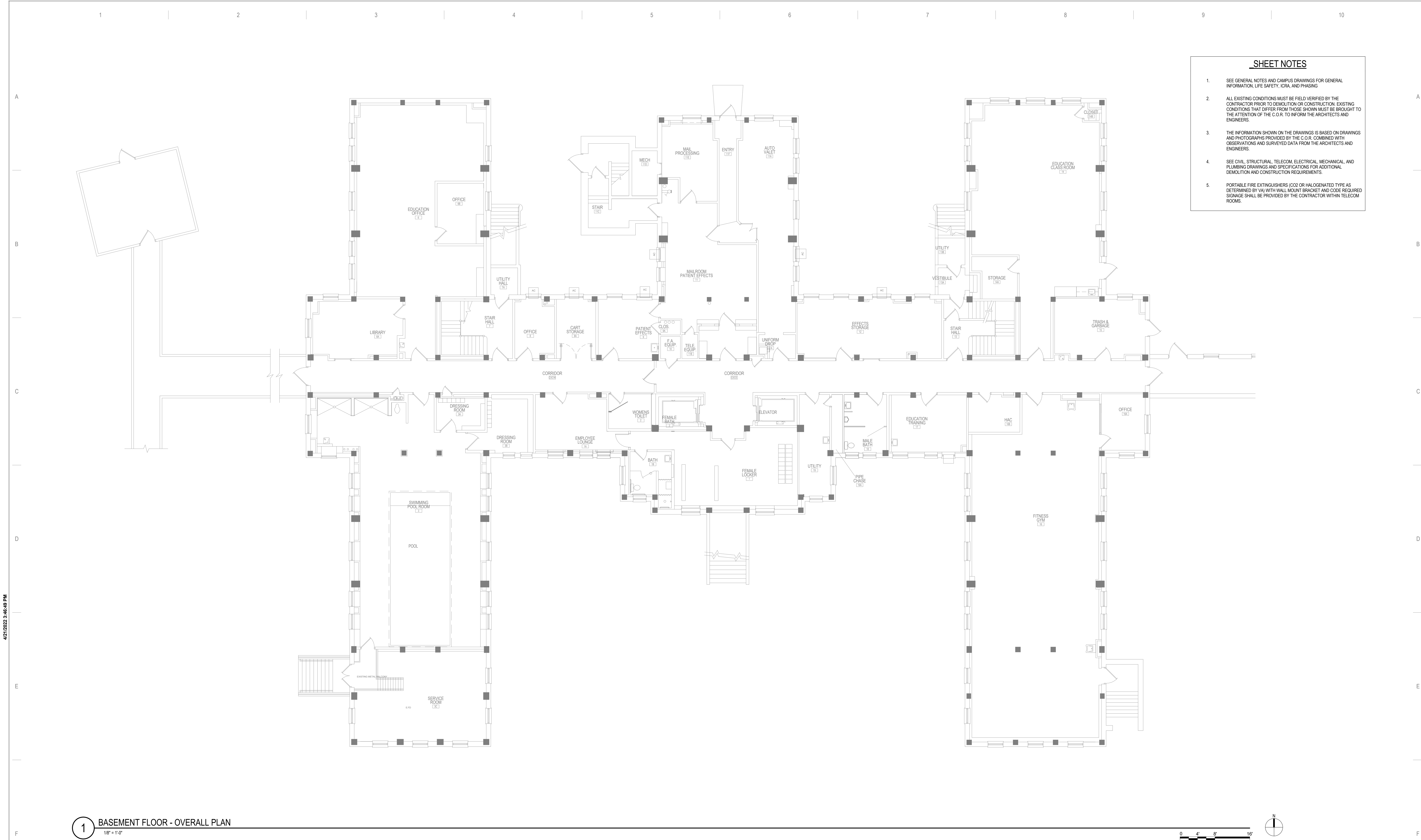


BUILDING #48 - ATTIC FLOOR PLAN

LEGEND

 -ASBESTOS-CONTAINING DUCT SEAM SEALANT (BLACK)

<div>Revisions</div> <div>Dates</div>		<div>ENVIRONMENTAL CONSULTANT: <b>CASTLE HILL ASSOCIATES, LLC.</b> 218-A MECHANIC STREET, WATERVILLE, OHIO 43566 Tel: (567) 952-0212</div>	<div> <b>CASTLE HILL</b> ASSOCIATES</div>	<div>Professional Seal: </div>	<div>North: </div>	<div>Drawing Title <b>ARCHITECTURAL PLAN BUILDING 48 Scale: 1/8" = 1'-0"</b></div> <div>Approved : Division Chief</div> <div>Approved : Service Director</div>	<div>Project Title <b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b></div> <div>Building Number <b>048</b></div> <div>Location <b>ST. CLOUD, MINNESOTA</b></div>	<div>Checked <b>BLB</b></div> <div>Drawn <b>AFS</b></div>	<div>Date <b>NOVEMBER 2019</b></div> <div>Project No. <b>36C26319P1003</b></div> <div>Drawing No. <b>5A</b></div> <div>Sheet 46 of 71</div>	<div> Office of Facilities</div> <div> Department of Veterans Affairs</div>
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SHEET NOTES

1. SEE GENERAL NOTES AND CAMPUS DRAWINGS FOR GENERAL INFORMATION, LIFE SAFETY, ICRA, AND PHASING.
2. ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION OR CONSTRUCTION. EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN MUST BE BROUGHT TO THE ATTENTION OF THE C.O.R. TO INFORM THE ARCHITECTS AND ENGINEERS.
3. THE INFORMATION SHOWN ON THE DRAWINGS IS BASED ON DRAWINGS AND PHOTOGRAPHS PROVIDED BY THE C.O.R. COMBINED WITH OBSERVATIONS AND SURVEYED DATA FROM THE ARCHITECTS AND ENGINEERS.
4. SEE CIVIL, STRUCTURAL, TELECOM, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION AND CONSTRUCTION REQUIREMENTS.
5. PORTABLE FIRE EXTINGUISHERS (CO2 OR HALOGENATED TYPE AS DETERMINED BY VA) WITH WALL MOUNT BRACKET AND CODE REQUIRED SIGNAGE SHALL BE PROVIDED BY THE CONTRACTOR WITHIN TELECOM ROOMS.

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No	REVISION	DATE

CONSULTANT



ARCHITECT/ENGINEER OF RECORD



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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.  
Name: *Tom Olesak*  
Typed or Printed Name: Tom Olesak  
Date: 03/30/2022 License Number: MN# 18157

DRAWING TITLE  
BASEMENT FLOOR - OVERALL PLAN

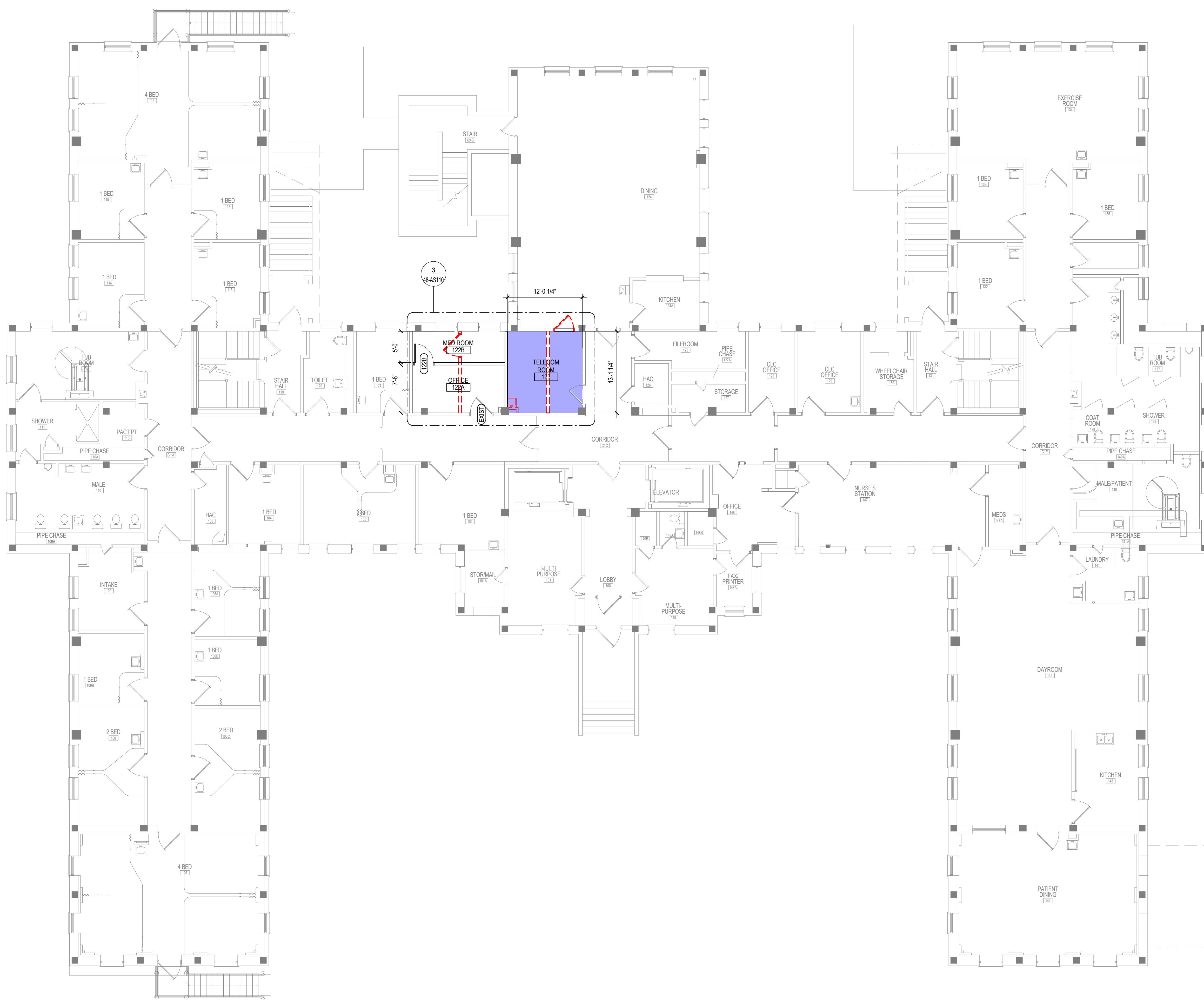
PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES	DATE 03/30/2022
BUILDING NO. 48	PLOT SCALE 656-21-235
CHECKED BY EM	DRAWN BY EM, BW
LOCATION VA MEDICAL CENTER ST. CLOUD, MN 56303	DWG. OF 48-AS100



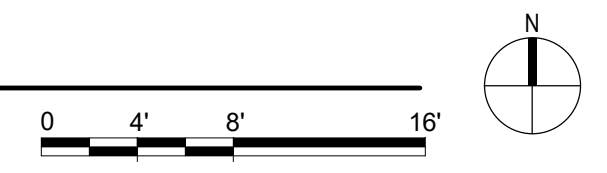
U.S. Department of Veterans Affairs  
Veterans Health Administration  
St. Cloud VA Health Care System

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A  
B  
C  
D  
E  
F



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



DEMOLITION PLAN KEYED NOTES

- DE1 PREPARE WALL FOR PLYWOOD BACKBOARD INSTALLATION AND EHRM REQUIREMENTS. SEE FLOOR PLAN AND TELECOM DRAWINGS
  - DE2 REMOVE AND SALVAGE DOOR AND PREPARE OPENING TO ACCOMMODATE PLAN. SEE FLOOR PLAN AND DOOR SCHEDULE
  - DE3 REMOVE WALL PARTITION IN ITS ENTIRETY.
  - DE4 CAREFULLY REMOVE AND SALVAGE EXISTING ACT CEILING SYSTEM AS REQUIRED FOR NEW CONSTRUCTION.
  - DE19 REMOVE EXISTING VCT FLOORING TO THE EXTENTS SHOWN. PREPARE FOR INSTALLATION OF NEW FLOORING.
  - DE30 REMOVE SINK AND ASSOCIATED PLUMBING. SEE MECHANICAL
  - DE31 PREPARE WINDOW FOR SECURITY INFILL. REMOVE WINDOW SILL
  - DE32 PREPARE WALL PARTITION FOR SECURITY UPGRADE. REMOVE GYP BD
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

FLOOR PLAN KEYED NOTES

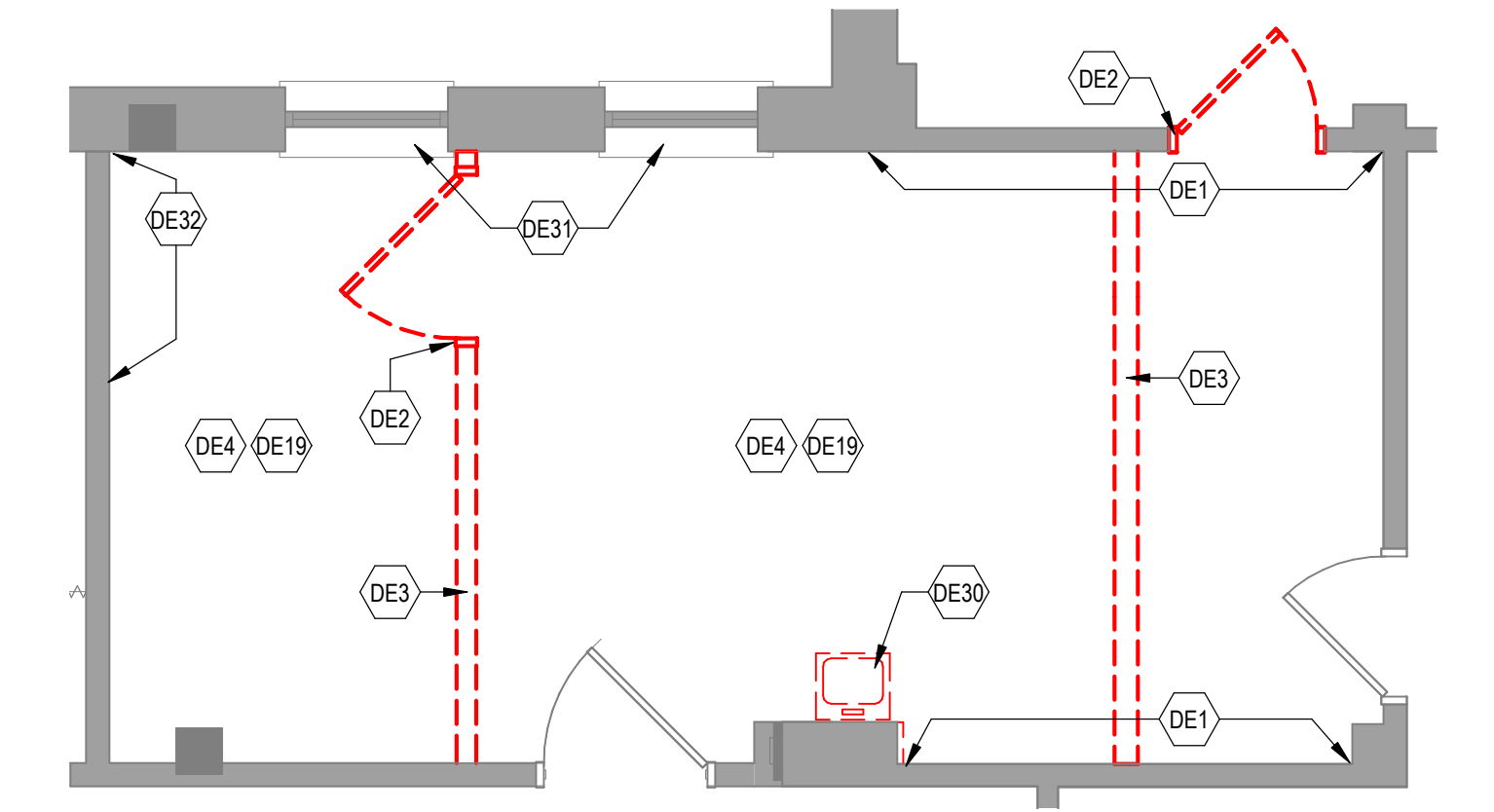
- FL1 ALL FOUR PERIMETER WALL PARTITIONS APPLY 4' BY 8' AC GRADE 3/4" TRADE SIZE FIRE RATED PLYWOOD BACKBOARD FINISHED WITH HIGH-GLOSS WHITE PAINT OVER TWO COATS OF FIRE RESISTANT PAINT FOR SERVICE PROVIDER / SECURITY / VIDEO / ET CETERA. DO NOT PAINT OVER FIRE RATING STAMP.
  - FL3 UPGRADE PARTITION TO 1 HOUR FIRE AND SMOKE BARRIER. PROVIDE TESTED HEAD OF PARTITION ASSEMBLY WITH MATERIALS THAT RESIST THE PASSAGE OF SMOKE. SEAL JOINT AT HEAD AND ALL PENETRATIONS WITH FIRE CAULK.
  - FL6 FINISH NEW WALLS TO MATCH EXISTING WALLS THIS AREA
  - FL13 DRYWALL PENETRATION BARRIER MESH
  - FL15 PROVIDE BLACK OUT FILM AT EXISTING WINDOW. NOTED WINDOW SIZE IS APPROXIMATE. PROVIDE METAL SECURITY SCREEN AT EXTERIOR WINDOW. INFILL INTERIOR OF WINDOW WITH METAL STUD PARTITION.
  - FL20 TELECOM EQUIPMENT. SEE TELECOM DRAWINGS.
  - FL21 OVERHEAD LEAK DIVERTER. SEE PLUMBING.
  - FL22 LEAK PREVENTION BARRIER WATERPROOFING DETAIL AT EXISTING PARTITION. SEE AS801.
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

REFLECTED CEILING PLAN KEYED NOTES

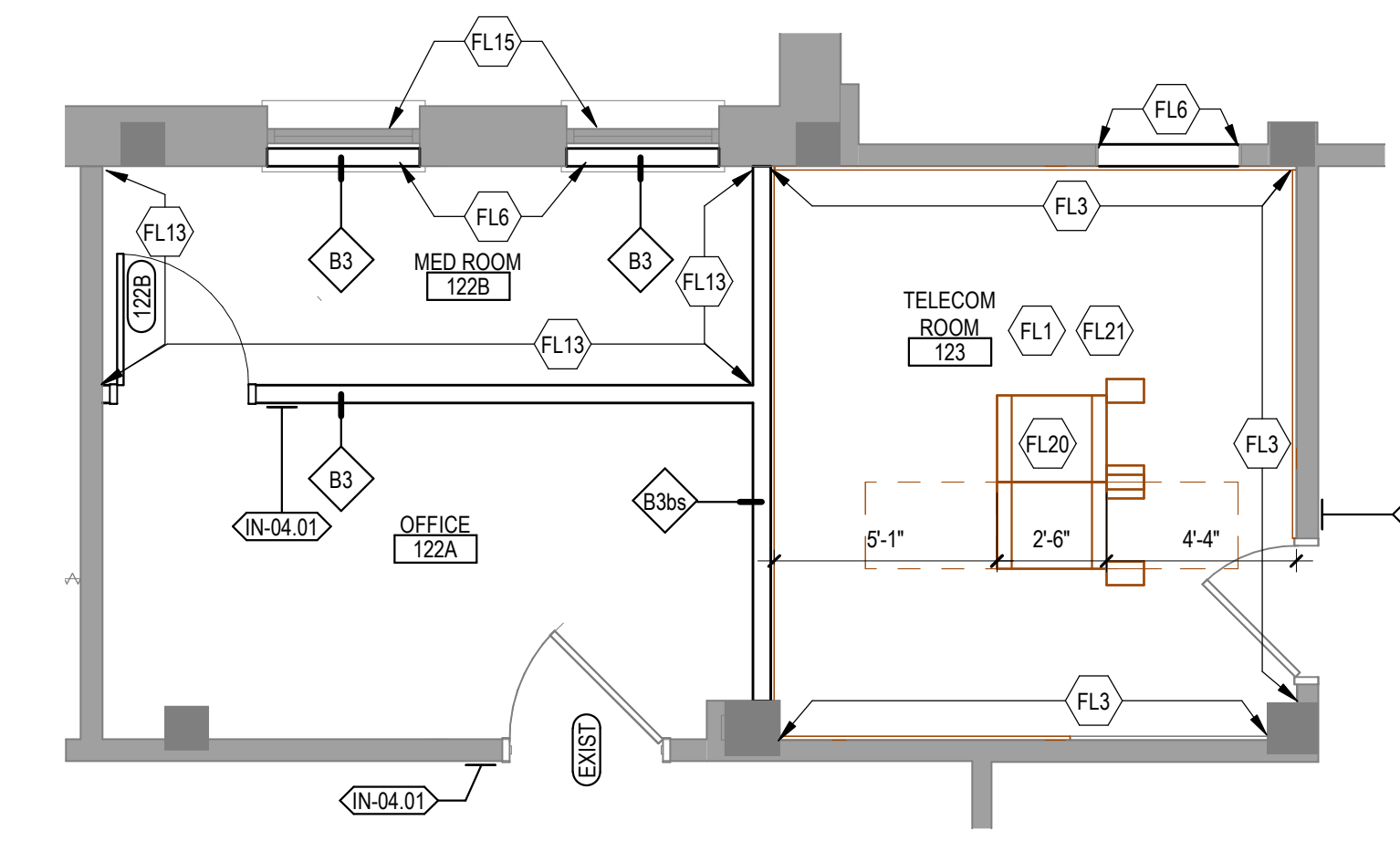
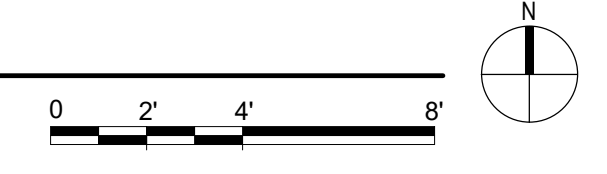
- RC1 LED LIGHTING. SEE ELECTRICAL. IN FRONT OF AND BEHIND CABINET ROWS PROVIDE 500 LUMENS IN HORIZONTAL AND 200 LUMENS IN THE VERTICAL AT 3 FT AFF. OPERATED BY MOTION SENSOR PER CABINET ROW OR SECTION.
  - RC2 OPEN TO STRUCTURAL FLOOR ABOVE
  - RC3 ACT SYSTEM AND 2X4 LIGHT FIXTURE. MATCH EXIST ADJACENT CEILING. SEE ELECTRICAL.
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

SHEET NOTES

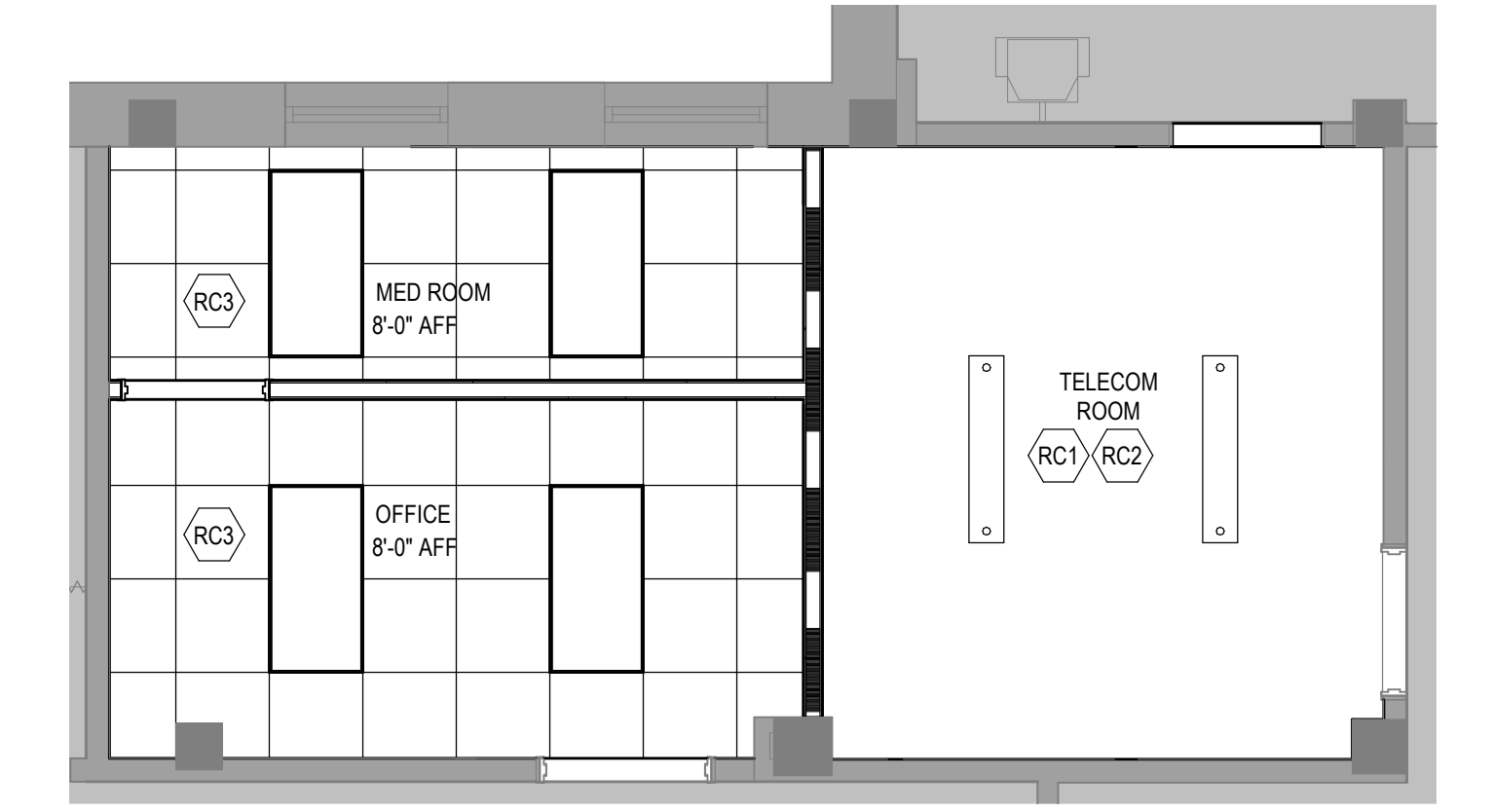
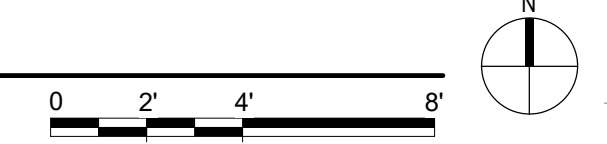
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- THE INFORMATION SHOWN ON THE DRAWINGS IS BASED ON DRAWINGS AND PHOTOGRAPHS PROVIDED BY THE C.O.R. COMBINED WITH OBSERVATIONS AND SURVEYED DATA FROM THE ARCHITECTS AND ENGINEERS.
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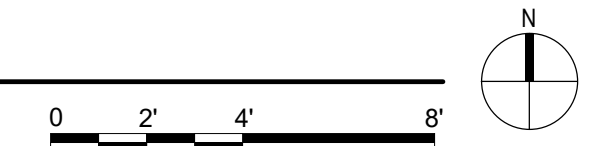
2 DEMOLITION PLAN  
1/4" = 1'-0"



3 ENLARGED FLOOR PLAN  
1/4" = 1'-0"



4 REFLECTED CEILING PLAN  
1/4" = 1'-0"



No	REVISION	DATE

CONSULTANT

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Name:

Typed or Printed Name: Tom Olesek  
Date: 03/30/2022 License Number: MN# 18157

DRAWING TITLE

FIRST FLOOR PLANS

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE  
PROJECT NO: 656-21-235  
BUILDING NO: 48  
CHECKED BY: EM  
DRAWN BY: EM, BMW  
DRAWING NO: 48-AS110  
LOCATION: VA MEDICAL CENTER ST CLOUD, MN 56303  
FULLY SPRINKLERED  
DWS OF

U.S. Department of Veterans Affairs  
Veterans Health Administration  
St. Cloud VA Health Care System



2 DEMOLITION PLAN

1/4" = 1'-0"

0 2' 4' 8'

N

3 ENLARGED FLOOR PLAN

1/4" = 1'-0"

0 2' 4' 8'

N

4 REFLECTED CEILING PLAN

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5. PORTABLE FIRE EXTINGUISHERS (G20 OR HALOGENATED TYPE AS DETERMINED BY WA) WITH WALL MOUNT BRACKET AND CODE REQUIRED SIGNAGE SHALL BE PROVIDED BY THE CONTRACTOR WITHIN TELECOM ROOMS.

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**VA**



**U.S. Department  
of Veterans Affairs**

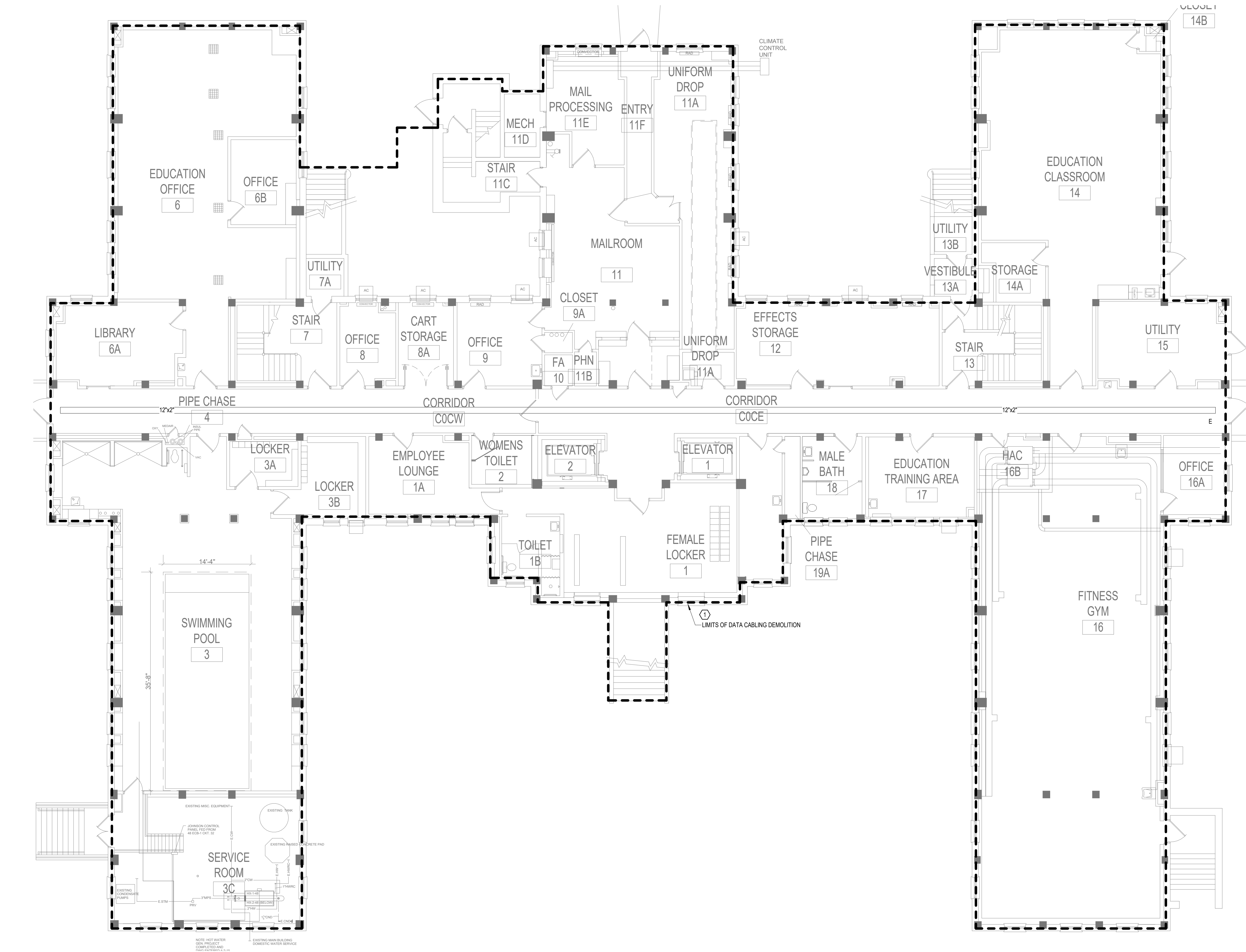
Veterans Health  
Administration

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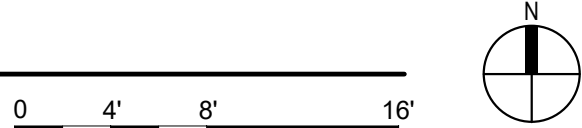
**GENERAL NOTES:**  
A. REFER TO GENERAL DEMOLITION NOTES ON SHEET T000 FOR ADDITIONAL DEMOLITION SCOPE.

**SHEET NOTES:**

1. REMOVE AND REPLACE EXISTING DATA CABLE. REMOVE ALL EXISTING DATA CABLES AND JACKS THROUGHOUT THIS AREA. REPLACE CABLES AND JACKS 1 FOR 1, AS REQUIRED BY THE NEW WORK PLANS. REFER TO NEW WORK PLANS FOR SERVING COMMUNICATIONS ROOM LOCATION AND NEW CABLING ROUTES.



1 BASEMENT FLOOR PLAN - TELECOM - DEMOLITION  
1/8" = 1'-0"



No	REVISION	DATE

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Nathan Timm  
BICS1 ID # 346555  
EXPIRES 12-31-24

*Nathan M. Timm*

DRAWING TITLE

BASEMENT FLOOR PLAN -  
TELECOM - DEMOLITION

PROJECT FILE

EHRM INFRASTRUCTURE  
UPGRADES

DATE  
03/30/2022

PLOT SCALE

PROJECT NO.  
656-21-235

DRAWING NO.  
48-TD100

BUILDING NO.  
48

CHECKED BY  
KSB

DRAWN  
SSK

LOCATION  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

FULLY  
SPRINKLERED

DWG. OF

**VA**

**U.S. Department  
of Veterans Affairs**

Veterans Health  
Administration  
St. Cloud VA  
Health Care System

A

B

C

D

E

F

GENERAL NOTES:

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET T000 FOR ADDITIONAL DEMOLITION SCOPE.

SHEET NOTES:

1. REMOVE AND REPLACE EXISTING DATA CABLE. REMOVE ALL EXISTING DATA CABLES AND JACKS THROUGHOUT THIS AREA. REPLACE CABLES AND JACKS 1 FOR 1, AS REQUIRED BY THE NEW WORK PLANS. REFER TO NEW WORK PLANS FOR SERVING COMMUNICATIONS ROOM LOCATION AND NEW CABLING ROUTES.
2. EXISTING TELECOMMUNICATIONS CAGE AND RACK SHALL BE INCLUDED WITHIN THE SCOPE OF DEMOLITION. EXISTING CABLING AND ASSOCIATED OUTLETS SHALL BE REMOVED AND REPLACED 1 FOR 1 AND REPEATED FROM DISTRIBUTION EQUIPMENT LOCATED WITHIN THE NEW TELECOMMUNICATIONS ROOM. REFER TO GENERAL CABLING NOTES FOR APPROXIMATE QUANTITIES. REFER TO NEW WORK PLANS FOR SERVING COMMUNICATIONS ROOM LOCATION AND NEW CABLING ROUTES.

CABLING NOTE:

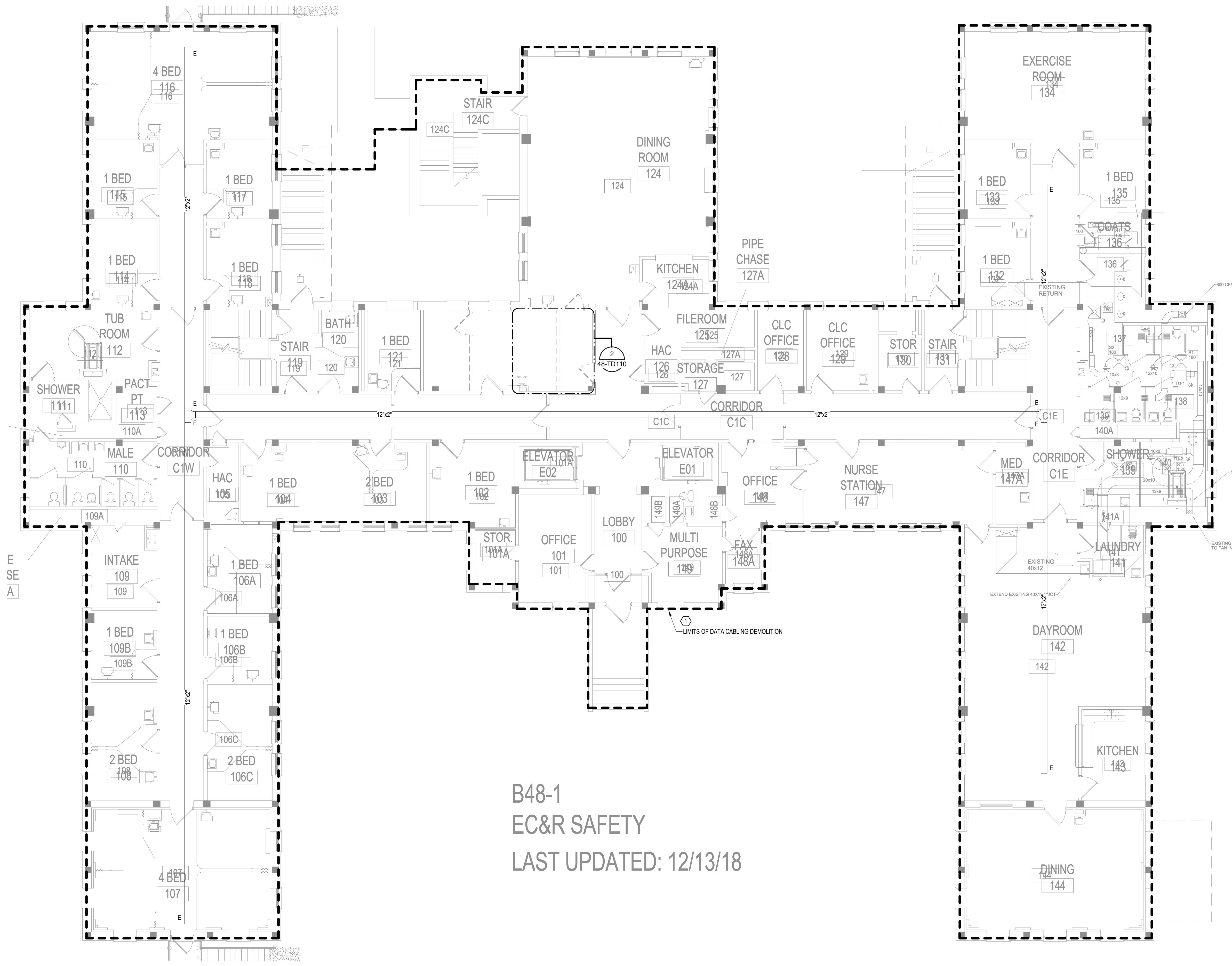
CABLING NOTES:  
A. THE EXISTING CABLE COUNT ARE THE CABLES CURRENTLY PRESENT IN THE SPACE. THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT.

1. ROOM 123  
EXISTING CABLE COUNT  
DATA (CAT6): 0  
DATA (CAT5e): 240  
DATA (CAT5): 0  
DATA (CAT3): 0

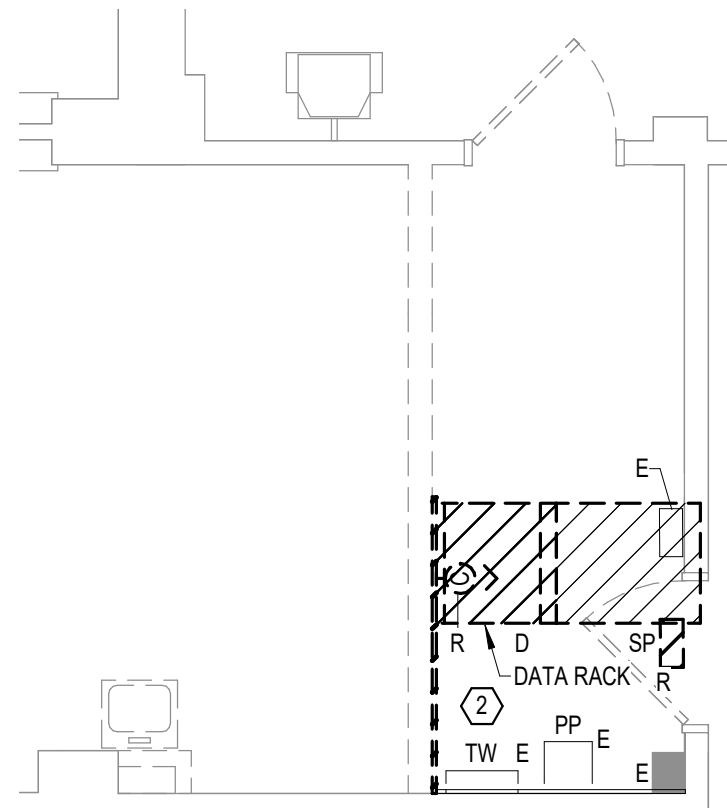
CABLE RELOCATION COUNT  
DATA (CAT6): 0  
DATA (CAT5e): 0  
DATA (CAT5): 0  
DATA (CAT3): 0

EXISTING CABLE TO REMAIN  
DATA (CAT6): 0  
DATA (CAT5e): 0  
DATA (CAT5): 0  
DATA (CAT3): 0

FINAL CABLE COUNT  
DATA (CAT6): 0  
DATA (CAT5e): 0  
DATA (CAT5): 0  
DATA (CAT3): 0

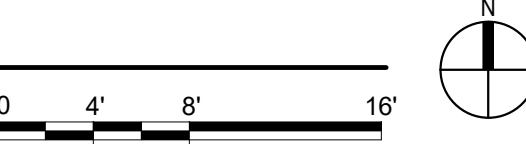


B48-1  
EC&R SAFETY  
LAST UPDATED: 12/13/18



2 TELECOM DEMO - ENLARGED PLAN - EXIST TR 123  
NOT TO SCALE 0 4 8 16'

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



5/11/2022 4:30:21 PM

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No	REVISION	DATE

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EXPIRES 12-31-24

DRAWING TITLE

FIRST FLOOR PLAN -  
TELECOM - DEMOLITION

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
DRAWING NO: 48-TD110

BUILDING NO: 48  
CHECKED BY: KSB  
DRAWN BY: SSK

LOCATION: VA MEDICAL CENTER  
ST. CLOUD, MN 56303

FULLY  
SPRINKLERED

DWG. OF

**VA**

**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
St. Cloud VA Health Care System

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B

C

D

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F

GENERAL NOTES:

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET 1000 FOR ADDITIONAL DEMOLITION SCOPE.

SHEET NOTES:

1. REMOVE AND REPLACE EXISTING DATA CABLE. REMOVE ALL EXISTING DATA CABLES AND JACKS THROUGHOUT THIS AREA. REPLACE CABLES AND JACKS 1 FOR 1, AS REQUIRED BY THE NEW WORK PLANS. REFER TO NEW WORK PLANS FOR SERVING COMMUNICATIONS ROOM LOCATION AND NEW CABLING ROUTES.
2. EXISTING TELECOMMUNICATIONS CAGE AND RACK SHALL BE INCLUDED WITHIN THE SCOPE OF DEMOLITION. EXISTING CABLING AND ASSOCIATED OUTLETS SHALL BE REMOVED AND REPLACED 1 FOR 1 AND REPEATED FROM DISTRIBUTION EQUIPMENT LOCATED WITHIN THE NEW TELECOMMUNICATIONS ROOM. REFER TO GENERAL CABLING NOTES FOR APPROXIMATE QUANTITIES. REFER TO NEW WORK PLANS FOR SERVING COMMUNICATIONS ROOM LOCATION AND NEW CABLING ROUTES.

CABLING NOTE:

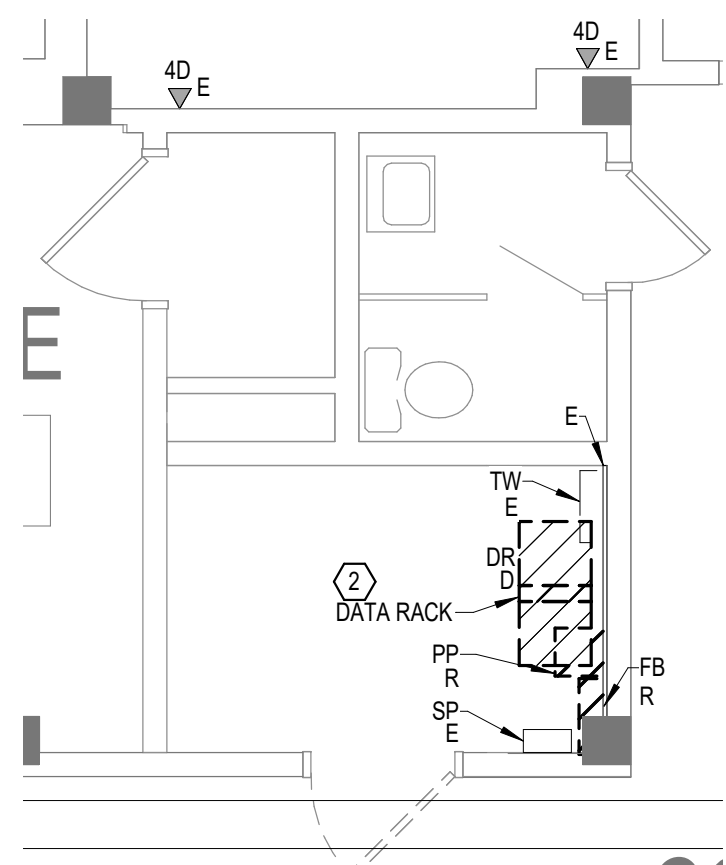
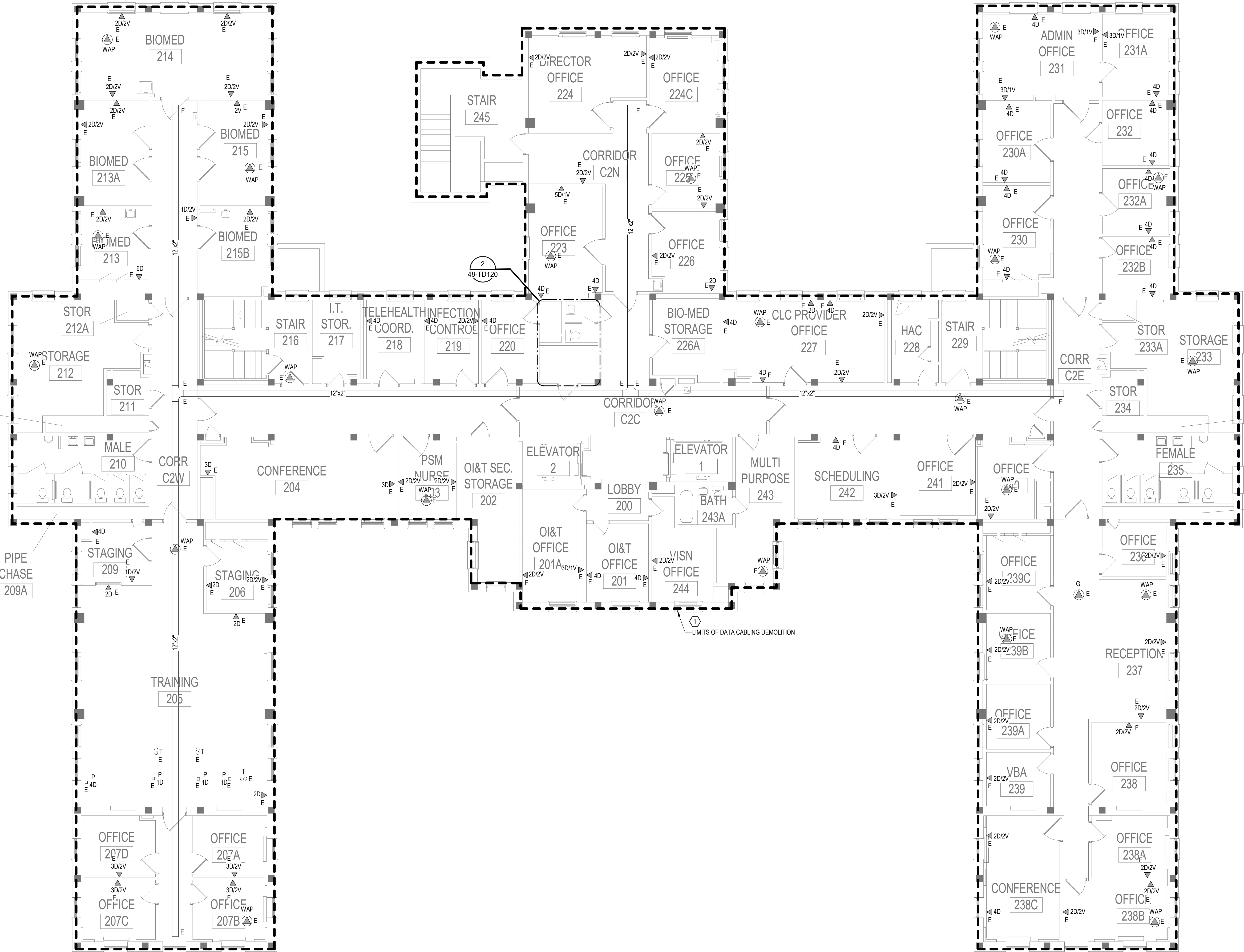
CABLING NOTES  
A. THE EXISTING CABLE COUNT ARE THE CABLES CURRENTLY PRESENT IN THE SPACE. THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT.

1. ROOM 221  
EXISTING CABLE COUNT  
DATA (CAT6): 0  
DATA (CAT5e): 295  
DATA (CAT3): 0  
DATA (CAT3): 0

CABLE RELOCATION COUNT  
DATA (CAT6): 0  
DATA (CAT5e): 0  
DATA (CAT3): 0  
DATA (CAT3): 0

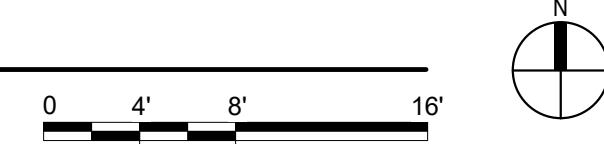
EXISTING CABLE TO REMAIN  
DATA (CAT6): 0  
DATA (CAT5e): 0  
DATA (CAT3): 0  
DATA (CAT3): 0

FINAL CABLE COUNT  
DATA (CAT6): 0  
DATA (CAT5e): 0  
DATA (CAT3): 0  
DATA (CAT3): 0



1 SECOND FLOOR PLAN - TELECOM - DEMOLITION  
1/8" = 1'-0"

2 TELECOM DEMO - ENLARGED PLAN - EXIST TR 221  
1/4" = 1'-0"



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No	REVISION	DATE

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Nathan Timm  
BICS ID # 346555  
Expires 12-31-24

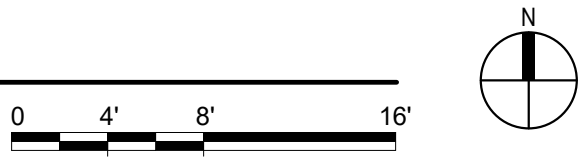
*Nathan M. Timm*

DRAWING TITLE  
SECOND FLOOR PLAN -  
TELECOM - DEMOLITION

PROJECT TITLE <b>EHRM INFRASTRUCTURE UPGRADES</b>	DATE <b>03/30/2022</b>
BUILDING No <b>48</b>	CHECKED BY <b>KSB</b>
LOCATION VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWN BY <b>SSK</b>
PROJECT NO <b>656-21-235</b>	DRAWING NO <b>48-TD120</b>
FULLY SPRINKLERED	DWG. OF

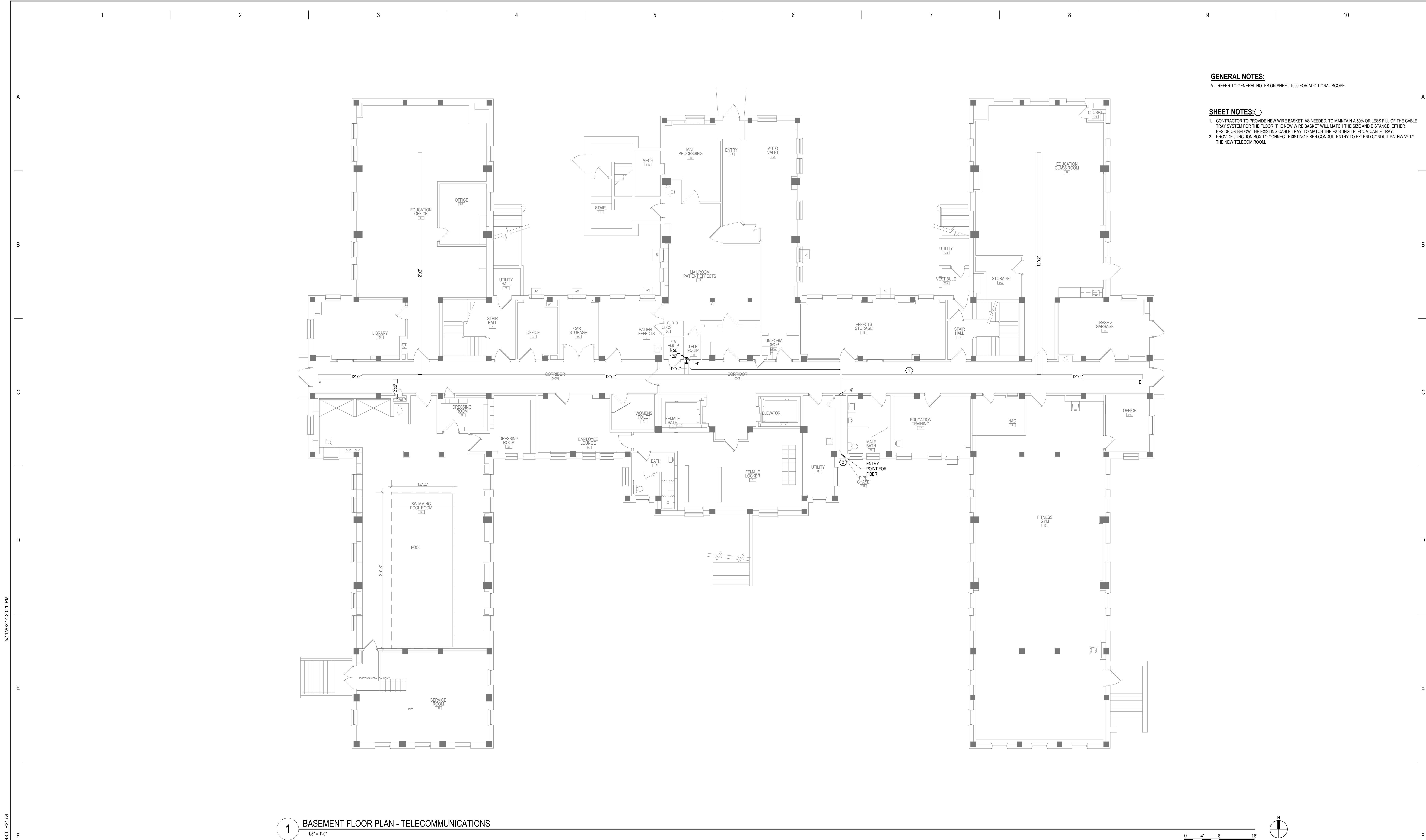
**VA**

**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
St. Cloud VA Health Care System



**VA** |  **U.S. Department  
of Veterans Affairs**  
Veterans Health  
Administration  
*St. Cloud VA  
Health Care System*

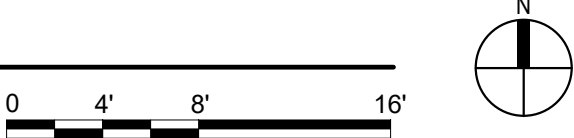
BIM 360://21102.001 - VA St Cloud EHRM Infrastructure Upgrades/656-235 B46.T\_R21.rvt  
5/11/2022 4:30:28 PM



**GENERAL NOTES:**  
A. REFER TO GENERAL NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

**SHEET NOTES:**  
1. CONTRACTOR TO PROVIDE NEW WIRE BASKET, AS NEEDED, TO MAINTAIN A 50% OR LESS FILL OF THE CABLE TRAY SYSTEM FOR THE FLOOR. THE NEW WIRE BASKET WILL MATCH THE SIZE AND DISTANCE, EITHER BESIDE OR BELOW THE EXISTING CABLE TRAY, TO MATCH THE EXISTING TELECOM CABLE TRAY.  
2. PROVIDE JUNCTION BOX TO CONNECT EXISTING FIBER CONDUIT ENTRY TO EXTEND CONDUIT PATHWAY TO THE NEW TELECOM ROOM.

1 BASEMENT FLOOR PLAN - TELECOMMUNICATIONS  
1/8" = 1'-0"



No	REVISION	DATE

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**Bicsi**  
Nathan Timm  
BICSID ID # 346555  
EXPIRES 12-31-24

DRAWING TITLE

**BASEMENT FLOOR PLAN -  
TELECOMMUNICATIONS**

PROJECT TITLE

**EHRM INFRASTRUCTURE  
UPGRADES**

DATE  
03/30/2022

PLOT SCALE

PROJECT NO.  
656-21-235

DRAWING NO.  
48-TN100

BUILDING NO.  
48

CHECKED BY  
KSB

DRAWN  
SSK

LOCATION  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

FULLY  
SPRINKLERED

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**U.S. Department  
of Veterans Affairs**

Veterans Health  
Administration  
St. Cloud VA  
Health Care System

GENERAL NOTES:

A. REFER TO GENERAL NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

SHEET NOTES:

1. CONTRACTOR TO PROVIDE NEW WIRE BASKET, AS NEEDED, TO MAINTAIN A 50% OR LESS FILL OF THE CABLE TRAY SYSTEM FOR THE FLOOR. THE NEW WIRE BASKET WILL MATCH THE SIZE AND DISTANCE, EITHER BESIDE OR BELOW THE EXISTING CABLE TRAY, TO MATCH THE EXISTING TELECOM CABLE TRAY.

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No	REVISION	DATE

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BICS ID # 346555  
EXPIRES 12-31-24

*Nathan M. Timm*

DRAWING TITLE

**FIRST FLOOR PLAN - TELECOMMUNICATIONS**

PROJECT FILE

**EHRM INFRASTRUCTURE UPGRADES**

DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
DRAWING NO: 48-TN110

BUILDING NO: 48  
CHECKED BY: KSB  
DRAWN: SSK

LOCATION: VA MEDICAL CENTER  
ST. CLOUD, MN 56303

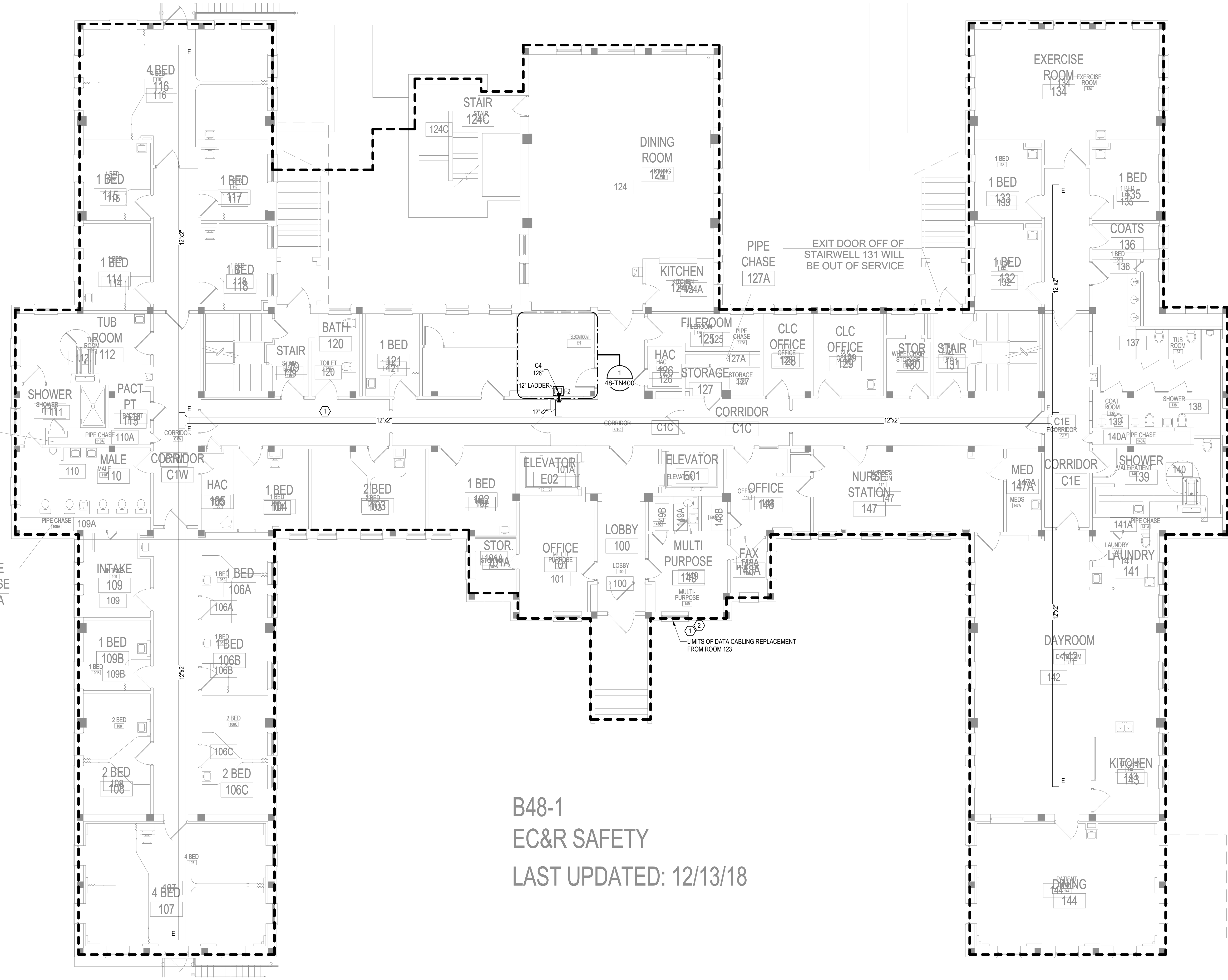
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**VA**



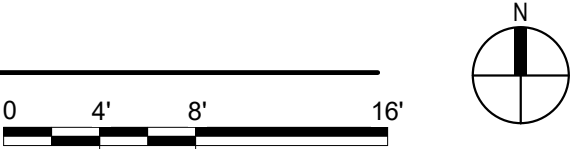
**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
St. Cloud VA Health Care System




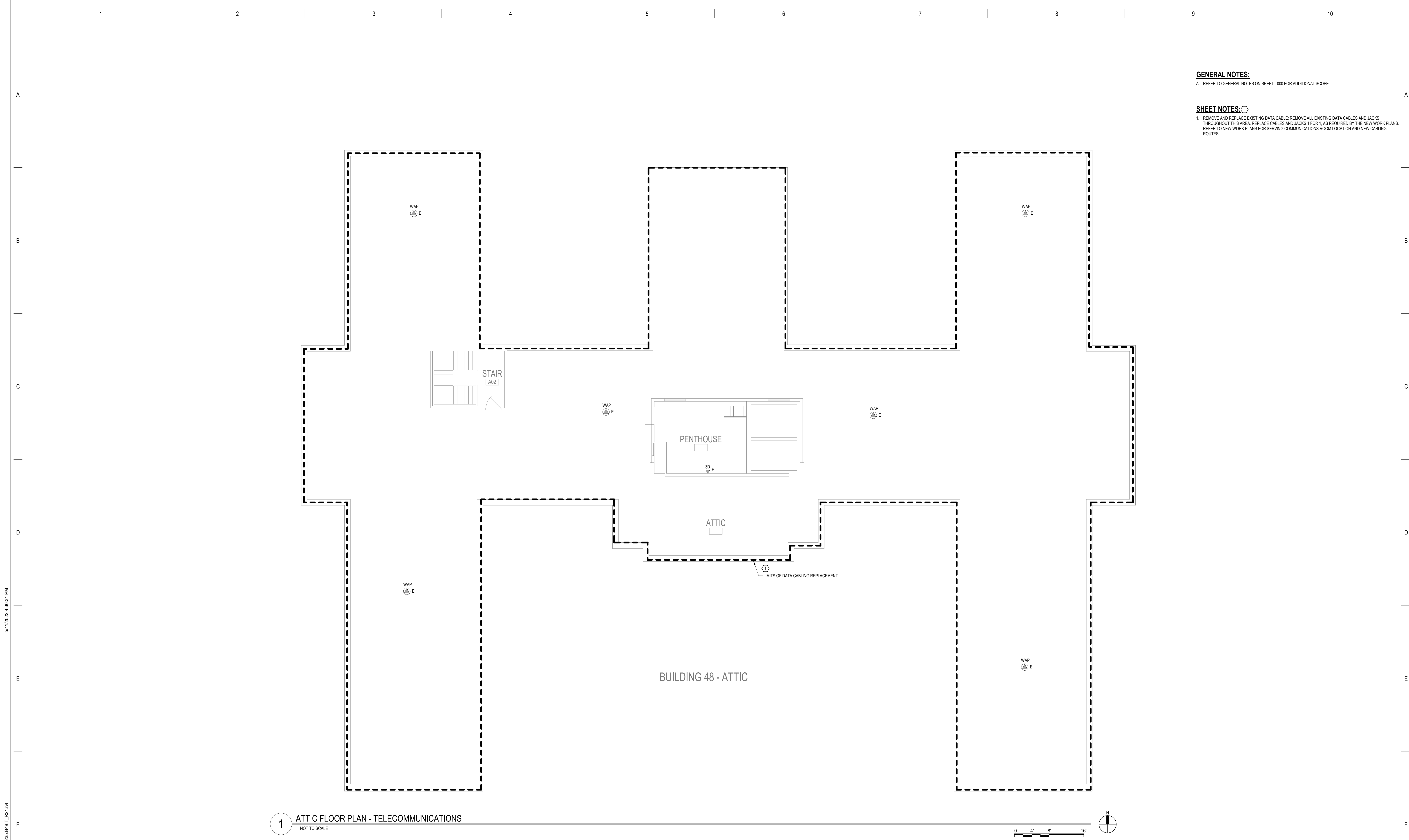
1 FIRST FLOOR PLAN - TELECOMMUNICATIONS  
1/8" = 1'-0"



1. CONTRACTOR TO PROVIDE NEW WIRE BASKET, AS NEEDED, TO MAINTAIN A 50% OR LESS FILL OF THE CABLE TRAY SYSTEM FOR THE FLOOR. THE NEW WIRE BASKET WILL MATCH THE SIZE AND DISTANCE, EITHER BESIDE OR BELOW THE EXISTING CABLE TRAY, TO MATCH THE EXISTING TELECOM CABLE TRAY.



**VA** |  **U.S. Department  
of Veterans Affairs**  
Veterans Health  
Administration  
St. Cloud VA  
Health Care System

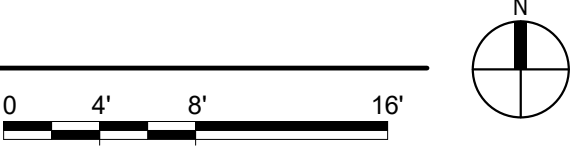




**GENERAL NOTES:**  
A. REFER TO GENERAL NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

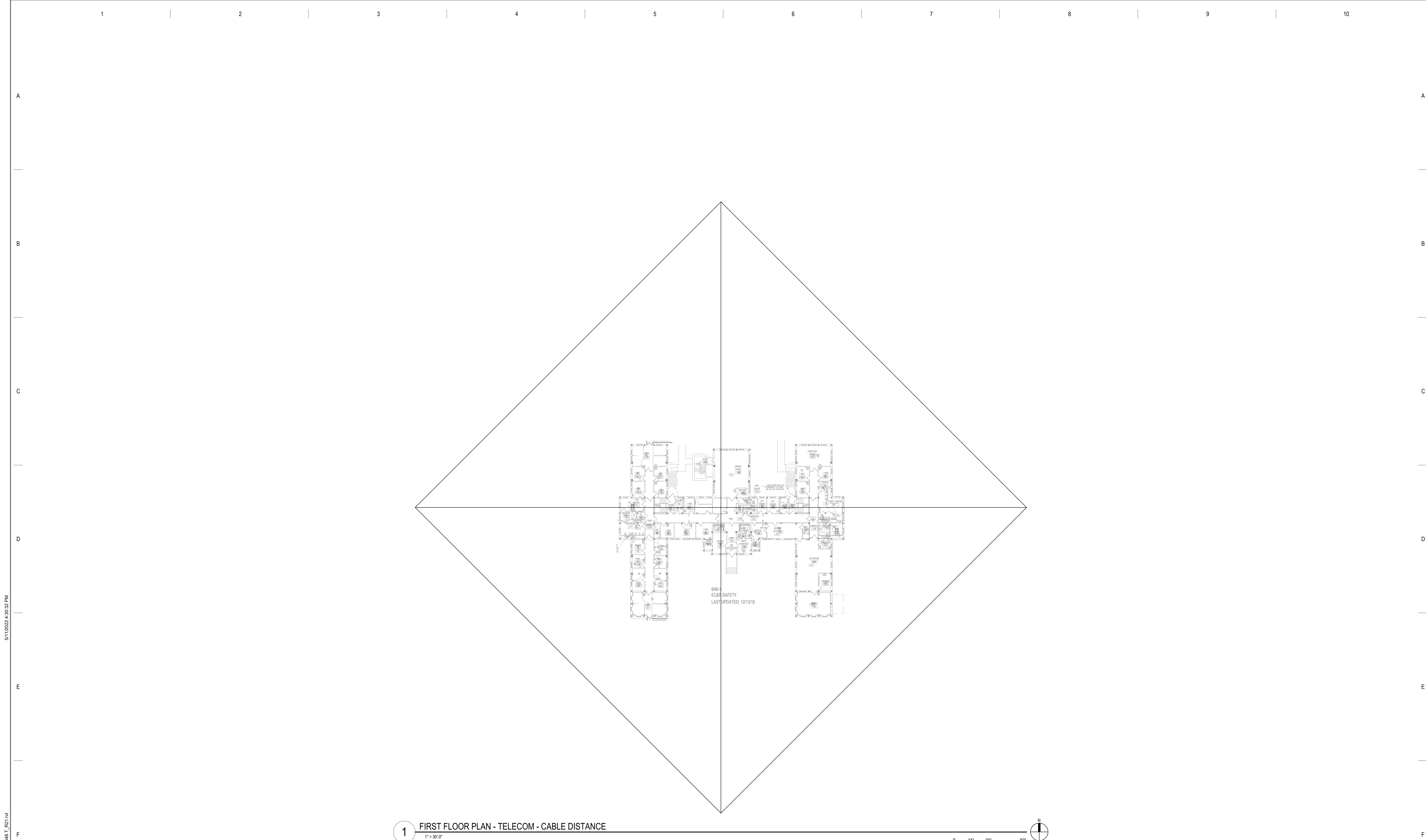
**SHEET NOTES:**  
1. REMOVE AND REPLACE EXISTING DATA CABLE; REMOVE ALL EXISTING DATA CABLES AND JACKS THROUGHOUT THIS AREA. REPLACE CABLES AND JACKS 1 FOR 1, AS REQUIRED BY THE NEW WORK PLANS. REFER TO NEW WORK PLANS FOR SERVING COMMUNICATIONS ROOM LOCATION AND NEW CABLING ROUTES.

BIM 360/21102.001 - VA St Cloud EHRM Infrastructure Upgrades 656-235 B48.T\_R21.rvt 5/11/2022 4:30:31 PM

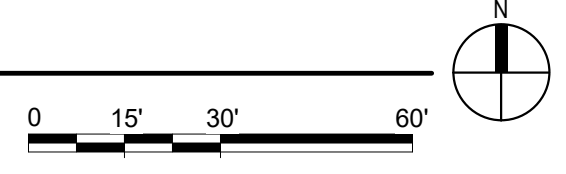
1 ATTIC FLOOR PLAN - TELECOMMUNICATIONS  
NOT TO SCALE



<div>CONSULTANT</div> <div><div><b>SPECIALIZED ENGINEERING SOLUTIONS</b></div><div>10360 Ellipse Circle Omaha, NE 68134 Phone: 402.991.5520 www.specializedeng.com</div></div>			<div>ARCHITECT/ENGINEER OF RECORD</div> <div><b>ANDERSON</b> 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000   F 763.412.4090   ae-mn.com Anderson Engineering of Minnesota, LLC   Proj # 16305</div>			<div>STAMP</div> <div><div><b>Bicsi</b> Nathan Timm BICS1 ID # 346555 EXPIRES 12-31-24 Nathan M. Timm</div></div>			<div>DRAWING TITLE</div> <div>ATTIC FLOOR PLAN - TELECOMMUNICATIONS</div>			<div>PROJECT TITLE</div> <div>EHRM INFRASTRUCTURE UPGRADES</div>			<div>DATE</div> <div>03/30/2022</div>			<div>U.S. Department of Veterans Affairs</div>		
									<div>PROJECT NO.</div> <div>656-21-235</div>			<div>U.S. Department of Veterans Affairs</div>								
									<div>DRAWING NO.</div> <div>48-TN130</div>			<div>U.S. Department of Veterans Affairs</div>								
									<div>LOCATION</div> <div>VA MEDICAL CENTER ST. CLOUD, MN 56303</div>			<div>U.S. Department of Veterans Affairs</div>								
									<div>FULLY SPRINKLERED</div>			<div>U.S. Department of Veterans Affairs</div>								
									<div>DWG. OF</div>			<div>U.S. Department of Veterans Affairs</div>								



1 FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE  
1" = 30'-0"



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Nathan Timm  
BICS1 ID # 346555  
Expires 12-31-24

  
Nathan M. Timm

DRAWING TITLE

FIRST FLOOR PLAN -  
TELECOM - CABLE DISTANCE

PROJECT TITLE

**EHRM INFRASTRUCTURE  
UPGRADES**

DATE  
03/30/2022

PLOT SCALE

PROJECT NO.  
656-21-235

DRAWING NO.  
48-TN210

BUILDING NO.  
48

CHECKED BY  
KSB

DRAWN  
SSK

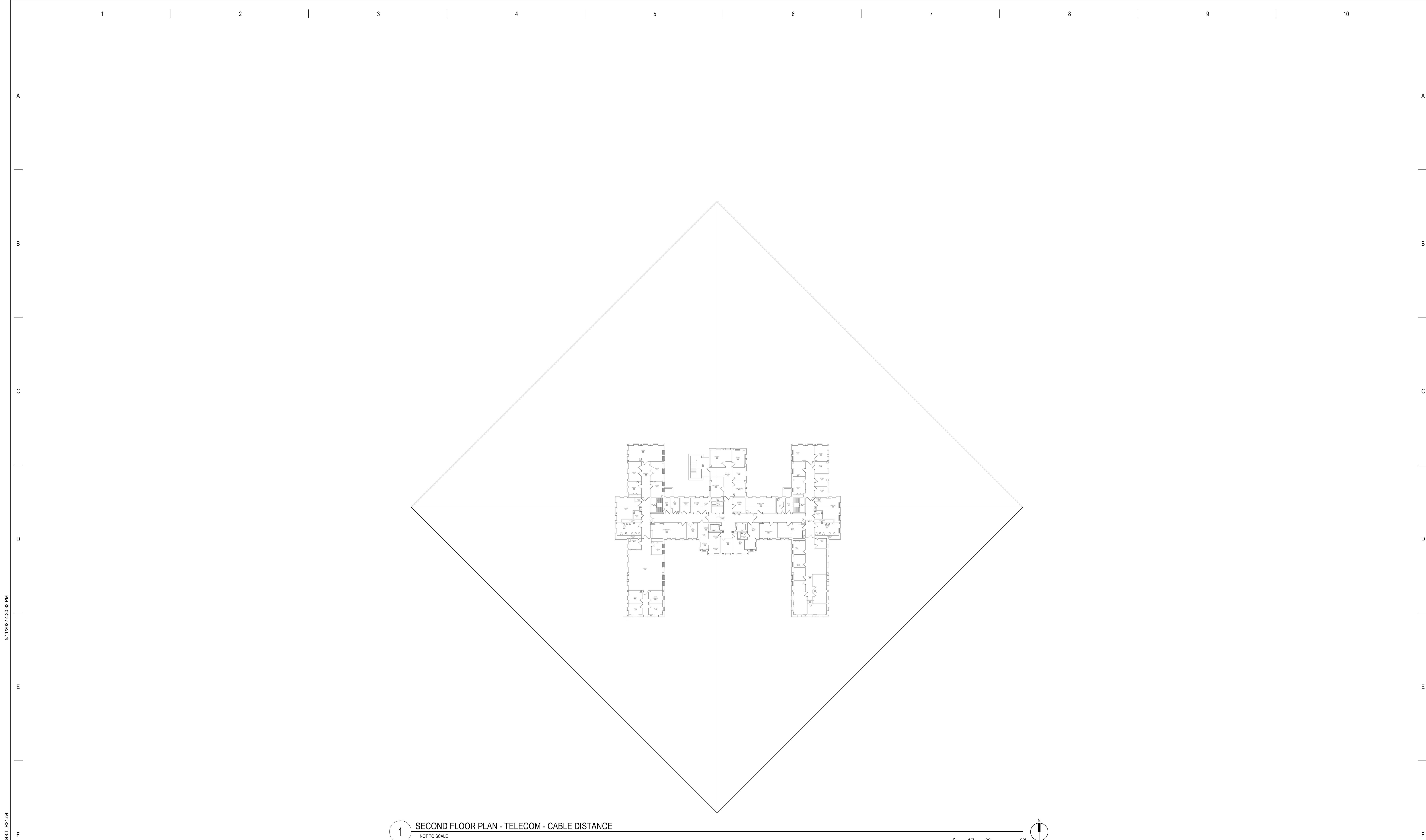
LOCATION  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

FULLY  
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DWG. OF



**U.S. Department  
of Veterans Affairs**  
Veterans Health  
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St. Cloud VA  
Health Care System



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No	REVISION	DATE

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Expires 12-31-24

Signature

Nathan M. Timm

DRAWING TITLE

SECOND FLOOR PLAN -  
TELECOM - CABLE DISTANCE

PROJECT TITLE

EHRM INFRASTRUCTURE  
UPGRADES

BUILDING NO.  
48

CHECKED BY  
KSB

DRAWN  
SSK

DATE  
03/30/2022

PLOT SCALE

PROJECT NO.  
656-21-235

DRAWING NO.  
48-TN220

LOCATION  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

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U.S. Department  
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Veterans Health  
Administration  
St. Cloud VA  
Health Care System

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C  
D  
E  
F

1 2 3 4 5 6 7 8 9 10

GENERAL NOTES:

A. REFER TO GENERAL NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

CABLING NOTE:

CABLING NOTES:  
A. THE EXISTING CABLE COUNT ARE THE CABLES CURRENTLY PRESENT IN THE SPACE.  
THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT.

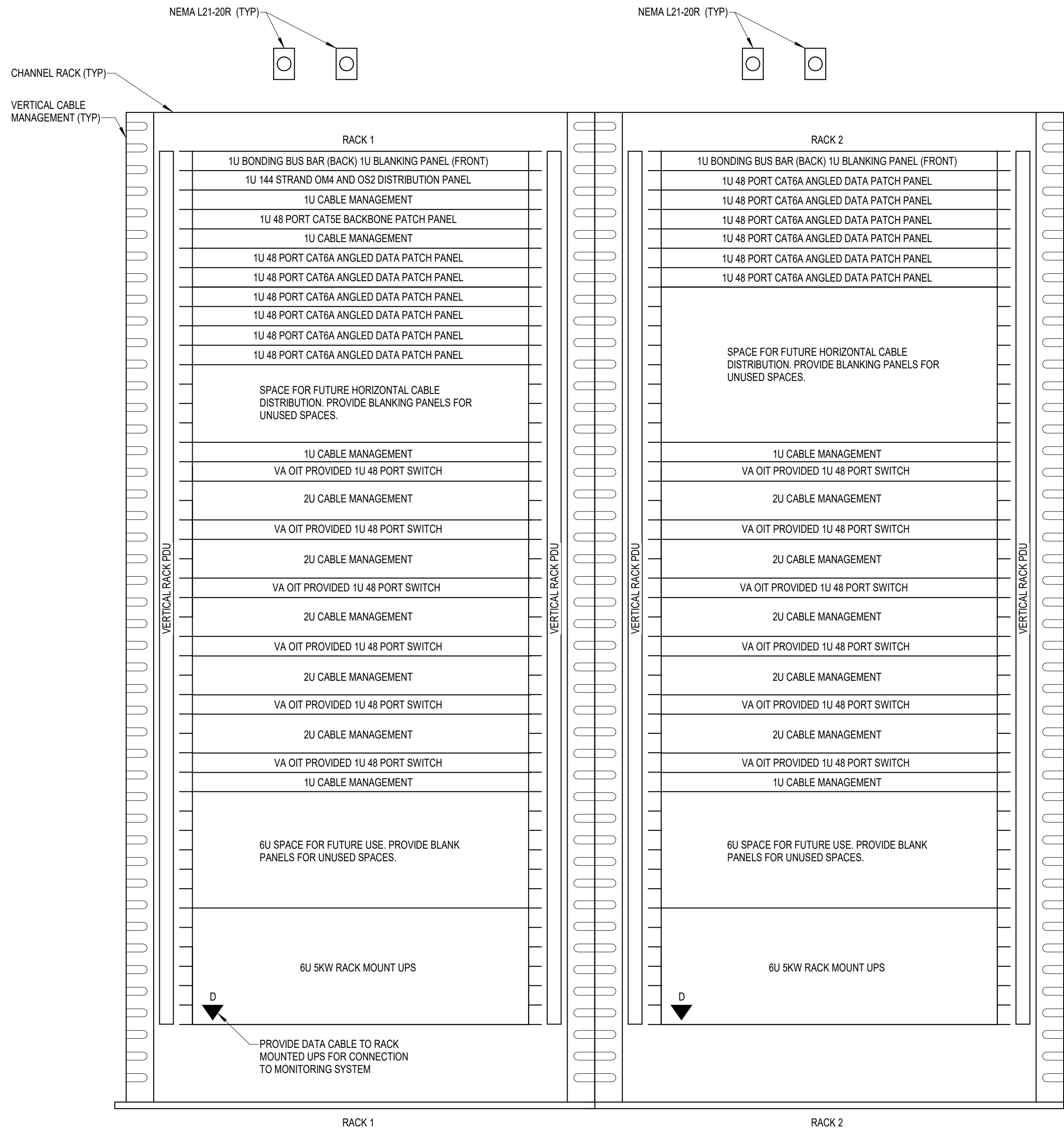
1. ROOM 123  
EXISTING CABLE COUNT  
DATA (CAT5): 0  
DATA (CAT5e): 240  
DATA (CAT6): 0  
DATA (CAT6): 0

CABLE RELOCATION COUNT  
DATA (CAT5): 0  
DATA (CAT5e): 0  
DATA (CAT6): 0  
DATA (CAT6): 0

EXISTING CABLE TO REMAIN  
DATA (CAT5): 0  
DATA (CAT5e): 0  
DATA (CAT6): 0  
DATA (CAT6): 0

FINAL CABLE COUNT  
DATA (CAT5): 240  
DATA (CAT6): 0

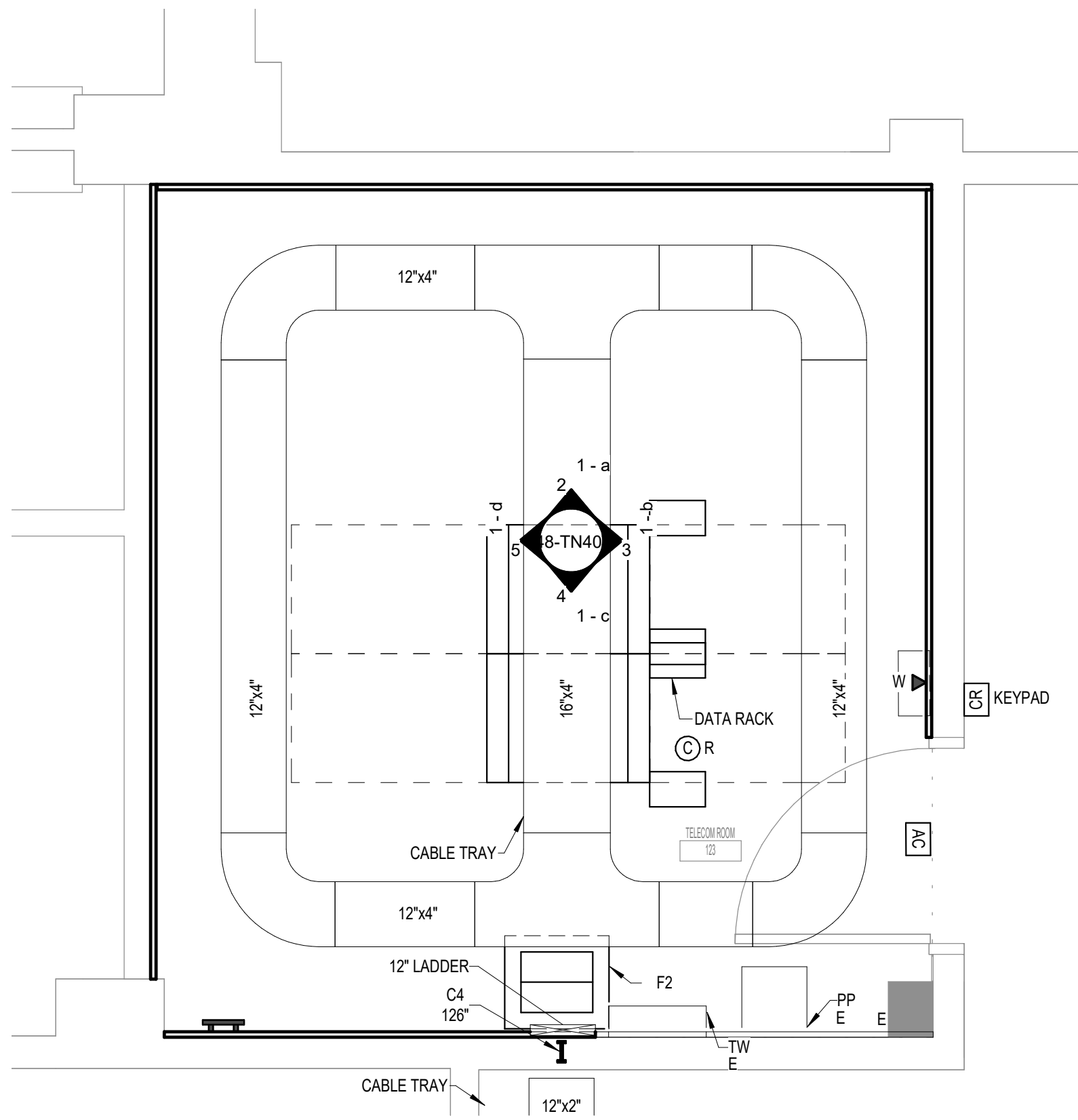
2 1-a NOT TO SCALE 0 2' 4' 8'  
3 1-b NOT TO SCALE 0 2' 4' 8'  
4 1-c NOT TO SCALE 0 2' 4' 8'  
5 1-d NOT TO SCALE 0 2' 4' 8'



- NOTES:  
1. REFER TO NEW WORK PLAN FOR RACK LOCATIONS.  
2. COORDINATE EXACT RACK COUNT AND LOCATION WITH OWNER PRIOR TO PERMANENT INSTALLATION.  
3. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL RACK COMPONENTS.  
4. RACK ELEVATION SHOWS A FULLY CONFIGURED SAMPLE RACK. CONTRACTOR TO PROVIDE REQUIRED EQUIPMENT TO SUPPORT THE FINAL DATA COUNT FROM THE ENLARGED NEW SHEET. (NOT TO EXCEED 288 PORTS PER RACK).  
5. COORDINATE FINAL RACK COMPONENT LAYOUT WITH OWNER'S ISIT REPRESENTATIVE.  
6. CONTRACTOR IS RESPONSIBLE FOR FINAL CABLE COUNT, QUANTITY OF PATCH PANELS, SWITCHES, FIBER ENCLOSURES, BLANKING PANELS, CABLE MANAGEMENT, AND MOUNTING HARDWARE. NOT MARKED AS 'OIT PROVIDED'.  
7. PUNCHDOWN COPPER BACKBONES ON RACK MOUNT PATCH PANELS. TERMINATE ONE (1) PAIR PER PATCH PANEL PORT.

6 COMMUNICATIONS - TYPICAL TWO RACK ELEVATION WITH RACK MOUNT UPS - EXIST TR 123  
NOT TO SCALE

1 ENLARGED PLAN - EXIST TR 123 - TELECOM  
NOT TO SCALE 0 1' 2' 4' N



No	REVISION	DATE

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**Bicsi**  
Nathan Timm  
BICS ID # 346555  
EXPIRES 12-31-24

*Nathan M. Timm*

DRAWING TITLE  
ENLARGED PLANS -  
TELECOMMUNICATIONS

PROJECT FILE  
EHRM INFRASTRUCTURE  
UPGRADES

DATE  
03/30/2022

PLOT SCALE

PROJECT NO.  
656-21-235

DRAWING NO.  
48-TN400

BUILDING NO.  
48

CHECKED BY  
KSB

DRAWN  
SSK

LOCATION  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

FULLY  
SPRINKLERED

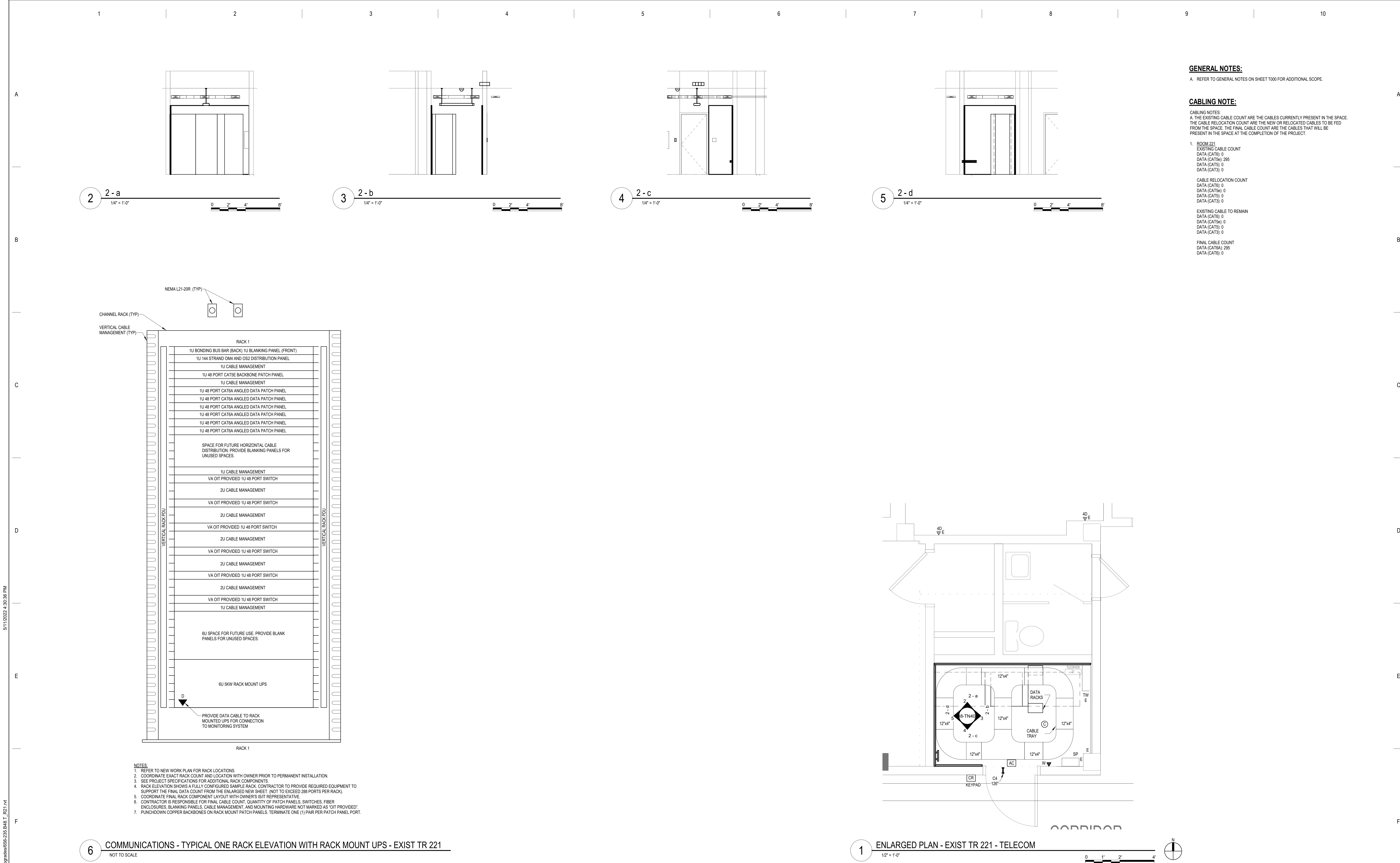
DWG. OF

**VA**

U.S. Department  
of Veterans Affairs

Veterans Health  
Administration  
St. Cloud VA  
Health Care System

BIM 360://21102.001 - VA St Cloud EHRM Infrastructure Upgrades/656-235 B448\_T\_R21.rvt 5/11/2022 4:30:38 PM



No	REVISION	DATE

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DRAWING TITLE

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TELECOMMUNICATIONS

PROJECT FILE

EHRM INFRASTRUCTURE  
UPGRADES

DATE  
03/30/2022

PLOT SCALE

PROJECT NO.  
656-21-235

DRAWING NO.  
48-TN401

BUILDING NO.  
48

CHECKED BY  
KSB

DRAWN  
SSK

LOCATION  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

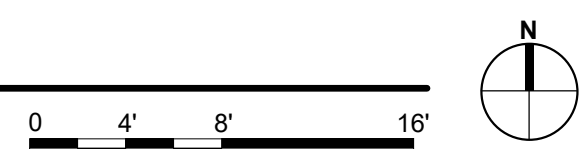
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DWG. OF

**VA**

**U.S. Department of Veterans Affairs**

Veterans Health Administration  
St. Cloud VA Health Care System



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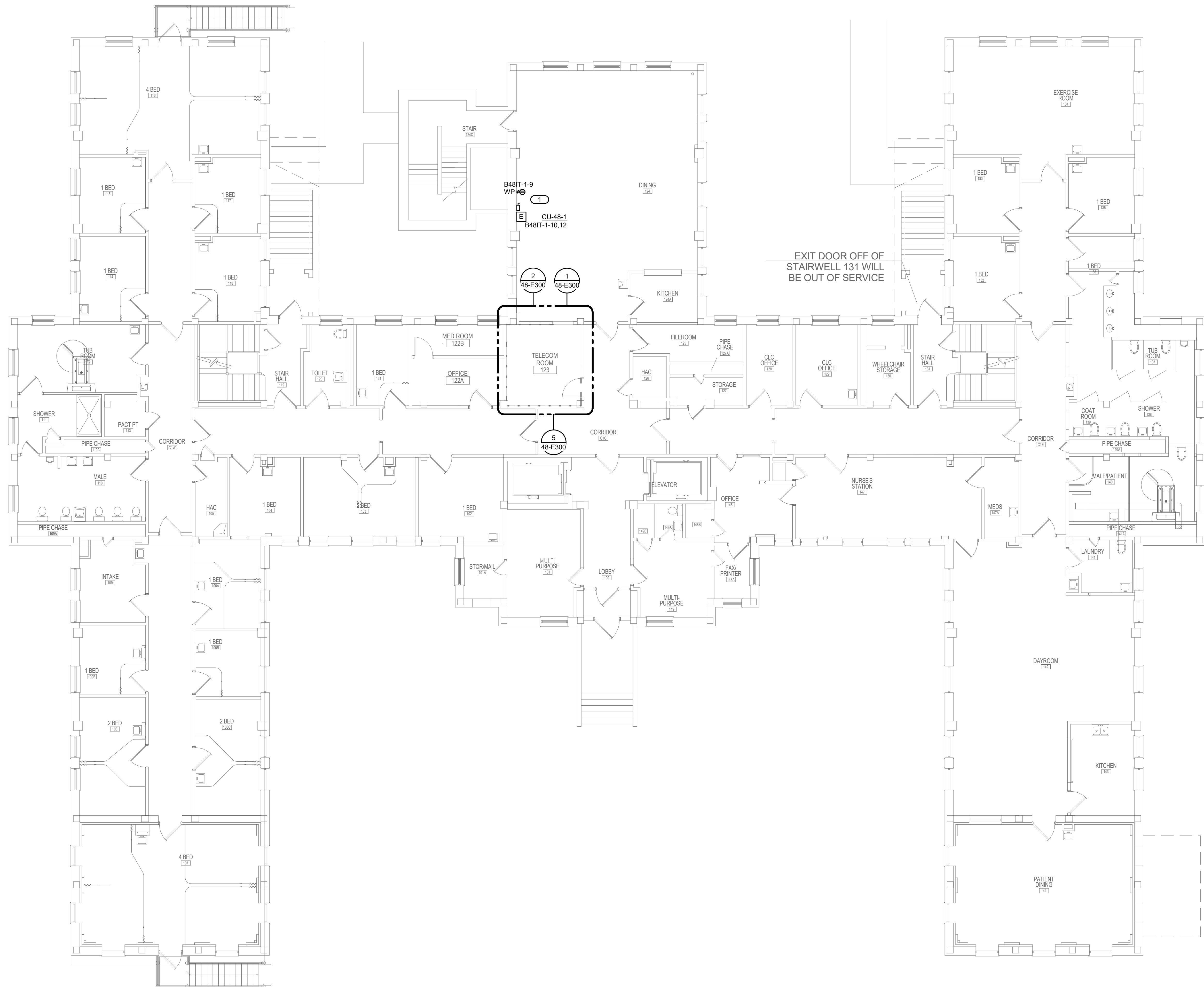
Date: 03/30/2022

License Number: MN# \_\_\_\_\_

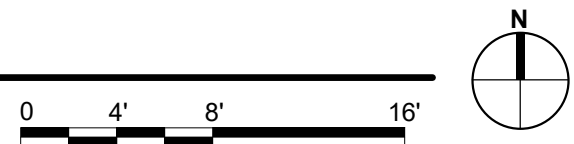
PROJECT TITLE		DATE	
EHM INFRASTRUCTURE UPGRADES		03/30/2022	
		PILOT SCALE	
		PROJECT NO.	
		656-21-235	
BUILDING No	CHECKED BY	DRAWN	DRAWING NO.
48	TBD	G.J.L	48-E200
LOCATION		FULLY SPRINKLERED	
VA MEDICAL CENTER ST.CLOUD, MN 56303		DWG. OF	



**KEYNOTES:** (1)  
1. PROVIDE ELECTRICAL CONNECTION TO CONDENSING UNIT, AS REQUIRED. COORDINATE FINAL LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL.



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



BIM 360/12102.001 - VA St Cloud EHRM Infrastructure Upgrades\656-235-B448-E-R21.dwg 5/6/2022 11:36:27 AM

No.	REVISION	DATE
100% CD		03/30

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Date: 03/30/2022  
License Number: MN# \_\_\_\_\_

**DRAWING TITLE**

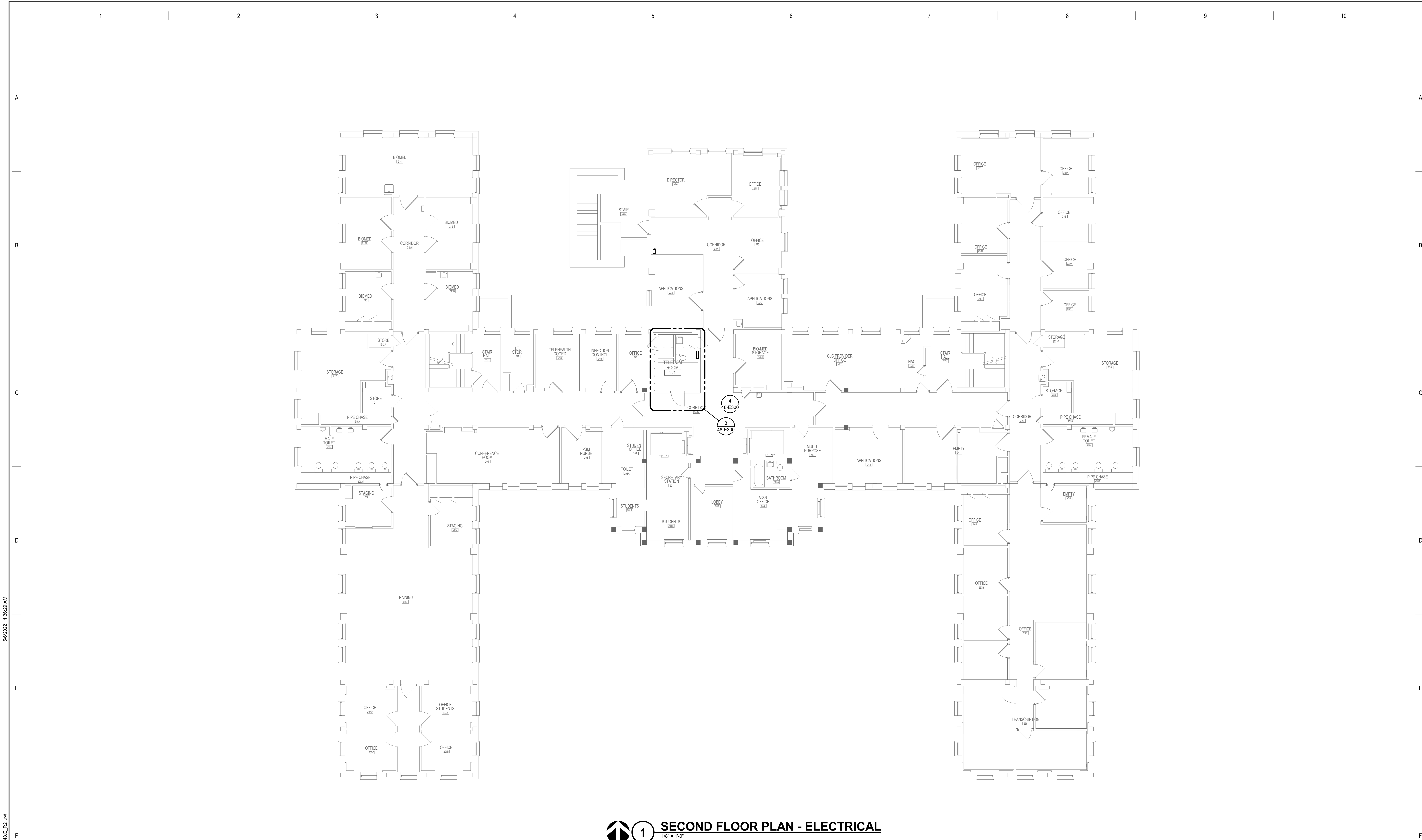
FIRST FLOOR PLAN - ELECTRICAL

PROJECT FILE	DATE
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
BUILDING No.	CHECKED BY
48	TBD
LOCATION	DRAWN
VA MEDICAL CENTER ST. CLOUD, MN 56303	GJL
FULLY SPRINKLERED	DWG. OF

**VA**

**U.S. Department of Veterans Affairs**

Veterans Health Administration  
St. Cloud VA Health Care System



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

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Name:

Date: 03/30/2022

License Number: MN#

DRAWING TITLE

ELECTRICAL ENLARGED PLANS

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

DATE

03/30/2022

PLOT SCALE

PROJECT NO.

656-21-235

DRAWING NO.

48-E300

LOCATION

VA MEDICAL CENTER  
ST. CLOUD, MN 56303

FULLY  
SPRINKLERED

DWG. OF

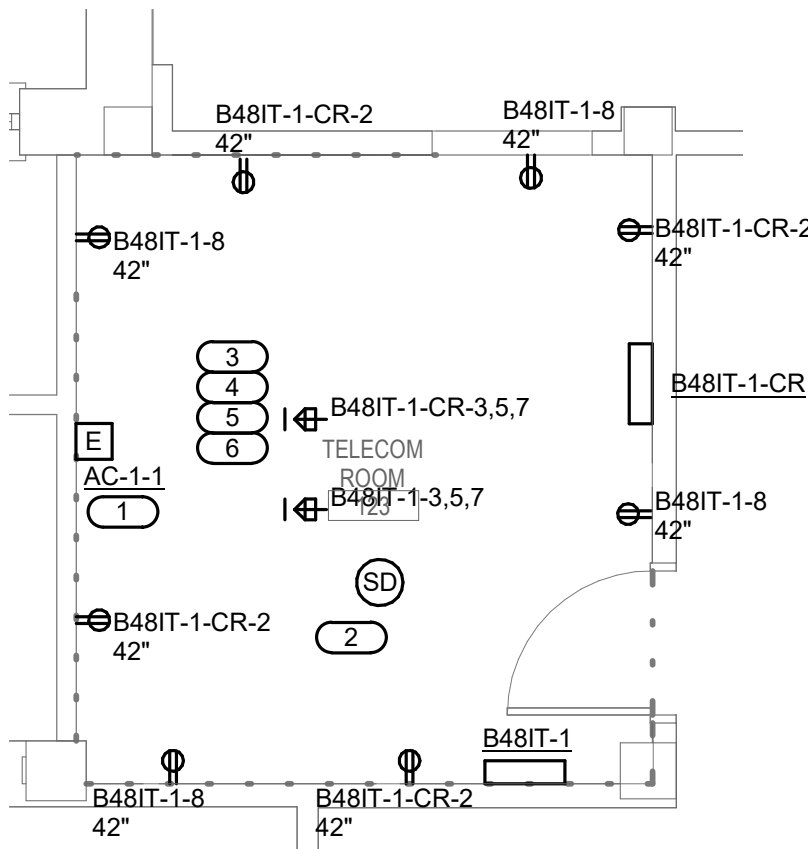
VA

U.S. Department  
of Veterans Affairs

Veterans Health  
Administration  
St. Cloud VA  
Health Care System

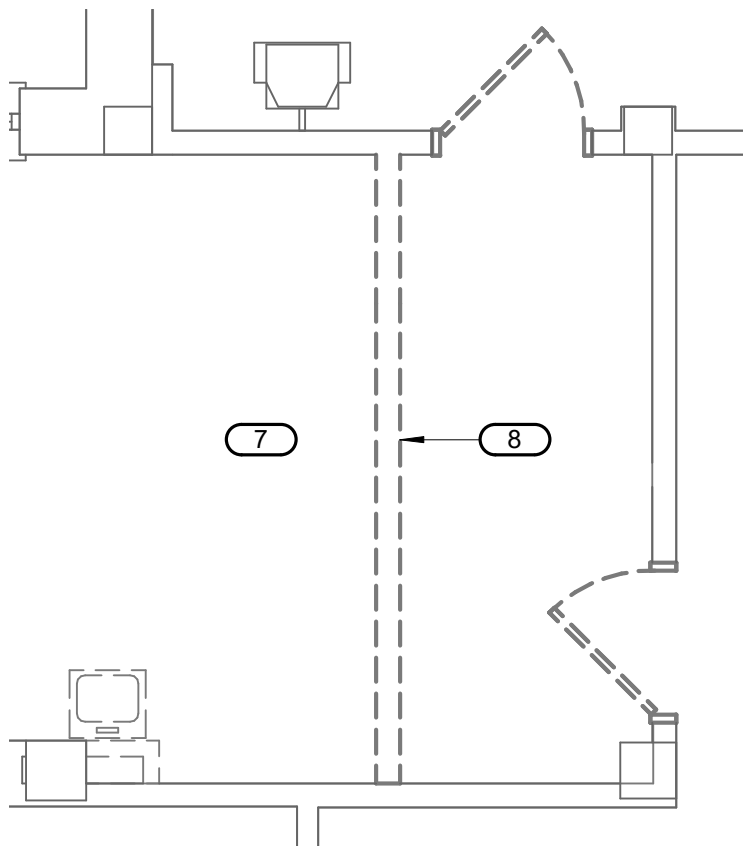
1 FIRST FLOOR - ENLARGED - TR123 - LIGHTING

1/4" = 1'-0"



2 FIRST FLOOR - ENLARGED - TR123 - POWER & SYSTEM

1/4" = 1'-0"

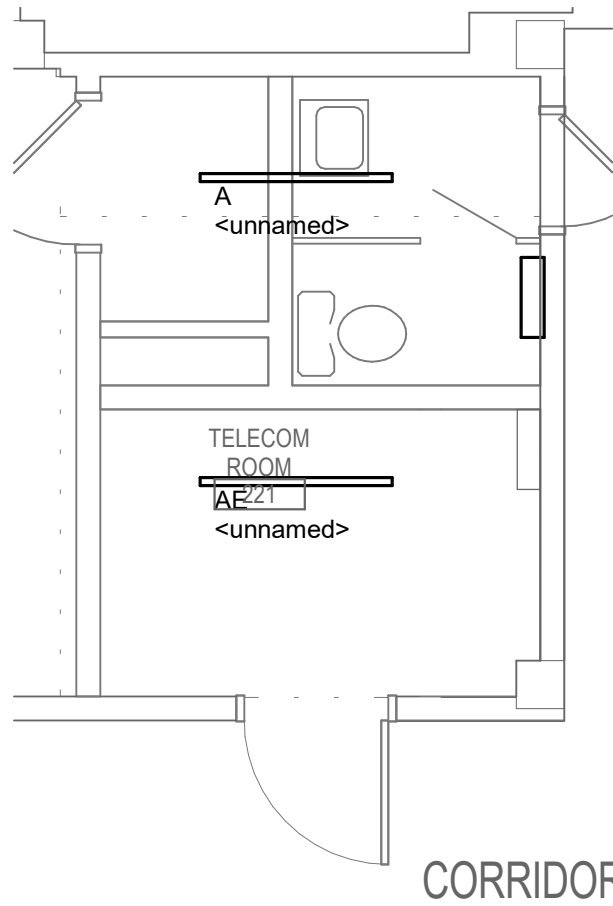


5 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

1/4" = 1'-0"

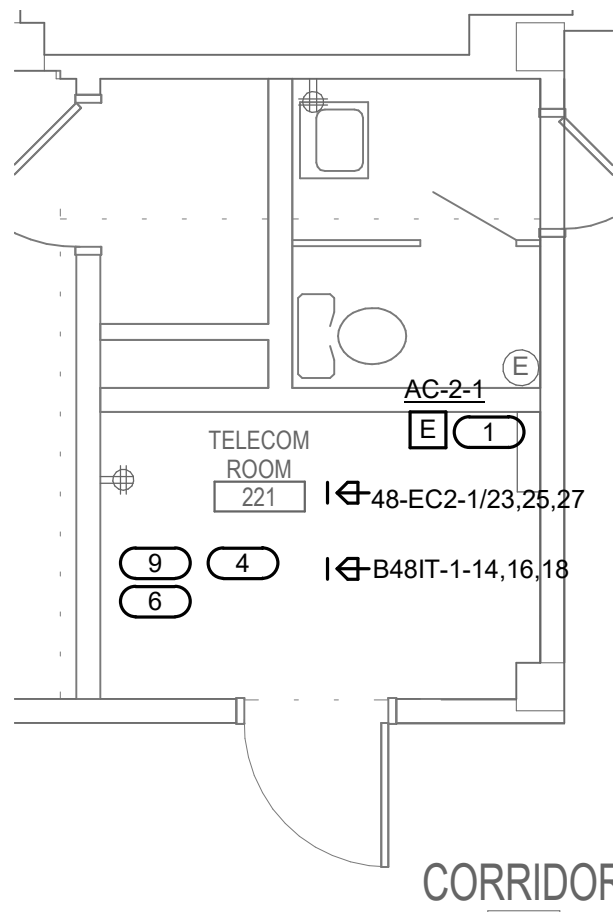
4 SECOND FLOOR PLAN - ELECTRICAL - Callout 1

1/4" = 1'-0"



3 SECOND FLOOR - ENLARGED - TR 221 - POWER & SYSTEM

1/4" = 1'-0"



**SHEET NOTES:**

1. REFER TO TECHNOLOGY PLANS FOR IT ROOM LAYOUT AND RACK LAYOUT/DETAILS.
2. REFER TO SHEET 0-GE400 DETAIL LAYOUT & ONE-LINE OF RACK.

**KEYNOTES:** ( # )

1. INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT. COORDINATE EXACT LOCATION WITH M.C.
2. CONNECT SMOKE DETECTOR TO NEAREST EXISTING SLC.
3. COORDINATE FINAL LOCATION OF RECEPTACLE L21-30R WITH TELECOM CONTRACTOR. PROVIDE 3/4"C-4#10, 1#10 GND TO PANEL FOR EACH RECEPTACLE.
4. PROVIDE EATON BLADEUPS, SKW, 120/208V, 3-PHASE, 4-WIRE RACK MOUNTED UPS FOR EACH RACK TOWER.
5. PROVIDE ONE RACK MOUNTED ZONE PDU UNIT, 30 AMP 3 PHASE, 120/208V, 5-WIRE WITH (4) L21-30R, (6) 5-20R AND TWO 10' POWER CORDS. ZONIT#ZPDS-208V-30A-L21-4L21-20R-CR.
6. PROVIDE APCMAP8861 RPOU RACK PDU 2G WITH L21-20P CORD, (120/208V, 3-PHASE, 20A, ZERO U, 5.7 KW, 208V, (36) C13 (6) C19 (2) 5-20R OUTLETS. PROVIDE TWO PER RACK, MOUNTED PER MANUFACTURER'S REQUIREMENTS.
7. DISCONNECT AND REMOVE LIGHTS AND RECEPTACLES IN AREA OF NEW IT ROOM. MAINTAIN CIRCUIT CONTINUITY TO ADJOINING SPACES.
8. DEMO ALL ELECTRICAL ON WALL, DEMO ALL LTG IN ROOM.
9. COORDINATE FINAL LOCATION OF RECEPTACLE L21-20R WITH TELECOM CONTRACTOR. PROVIDE 3/4"C-4#12, 1#12 GND TO PANEL FOR EACH RECEPTACLE.

KEYNOTES: C #  
1. PROVIDE NEW 100A/3P CIRCUIT BREAKER IN EXISTING PANEL TO MATCH EXISTING TYPE AND AIC RATING.

MOUNTING: SURFACE  
ENCLOSURE: NEMA PB 1  
FED FROM: B-MDP  
LOCATION: TELECOM ROOM 123

PANEL B48IT-1

MAIN: 100 A MCB  
VOLTS: 120/208 Wye  
PHASE: 3  
WIRE: 4  
SCCR: 10 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE			A	B	C	WIRE SIZE			OCPD	LOAD DESCRIPTION	CKT NO.	KEY	
			AMPS	P	H	N	G				G	N	H					P
	1	LIGHTING	20 A	1			0.44	0					1	20 A	SPARE	2		
	3	L21-30R RACK	20 A	3				1.67	0				1	20 A	SPARE	4		
--	5	--	--	--	--	--				1.67	0	--	1	20 A	SPARE	6		
--	7	--	--	--	--	--	1.67	0.72				--	1	20 A	EP GFI REC.	8		
	9	WP GFI REC.	20 A	1				0.18	1			2	20 A	CU48-1	10			
--	11	SPARE	20 A	1	--	--	--			0	1	--	--	--	--	12		
--	13	SPARE	20 A	1	--	--	--	0	1.67			3	30 A	L21-30R 2ND FLOOR	14			
--	15	SPARE	20 A	1	--	--	--			0	1.67	--	--	--	--	16		
--	17	SPARE	20 A	1	--	--	--			0	1.67	--	--	--	--	18		
--	19	SPARE	20 A	1	--	--	--	0	0			--	--	1	20 A	SPARE	20	
--	21	SPARE	20 A	1	--	--	--			0	0	--	--	1	20 A	SPARE	22	
--	23	SPARE	20 A	1	--	--	--			0	0	--	--	1	20 A	SPARE	24	
--	25	SPARE	20 A	1	--	--	--	0	0			--	--	1	20 A	SPARE	26	
--	27	SPARE	20 A	1	--	--	--			0	0	--	--	1	20 A	SPARE	28	
--	29	SPARE	20 A	1	--	--	--				0	0	--	1	20 A	SPARE	30	
Total Load:			4.50 kVA		4.51 kVA			4.33 kVA										
Total Amps:			37.69		37.82			36.11										

LOAD CLASSIFICATION

CONNECTED LOAD

DEMAND FACTOR

ESTIMATED DEMAND

TOTALS\*

Lighting	0.444 kVA	100.00%	0.444 kVA	
Power	12 kVA	100.00%	12 kVA	TOTAL CONNECTED LOAD: 13.34 kVA
Receptacles	0.9 kVA	100.00%	0.9 kVA	TOTAL ESTIMATED DEMAND LOAD: 13.344 kVA
				TOTAL CONNECTED AMPS: 37.04 A
				TOTAL ESTIMATED DEMAND AMPS: 37 A

\*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

MOUNTING: SURFACE  
ENCLOSURE: NEMA PB 1  
FED FROM: 48-EDC  
LOCATION: TELECOM ROOM 123

PANEL B48IT-1-CR

MAIN: 100 A MCB  
VOLTS: 120/208 Wye  
PHASE: 3  
WIRE: 4  
SCCR: 10 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE			A	B	C	WIRE SIZE			OCPD	LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G				G	N	H				
	1	LIGHTING TR123	20 A	1			0.44	0.72	1.67	0			1	20 A	RECEPTACLE TR123	2	
	3	L21-30R TR123	20 A	3					1.67	0			1	20 A	SPARE	4	
--	5	--	--	--	--	--			1.67	0		--	1	20 A	SPARE	6	
--	7	--	--	--	--	--	1.67	0				--	1	20 A	SPARE	8	
--	9	SPARE	20 A	1	--	--	--		0	0		--	1	20 A	SPARE	10	
--	11	SPARE	20 A	1	--	--	--			0	0	--	1	20 A	SPARE	12	
--	13	SPARE	20 A	1	--	--	--	0	0			--	1	20 A	SPARE	14	
--	15	SPARE	20 A	1	--	--	--		0	0		--	1	20 A	SPARE	16	
--	17	SPARE	20 A	1	--	--	--			0	0	--	1	20 A	SPARE	18	
--	19	SPARE	20 A	1	--	--	--	0	0			--	1	20 A	SPARE	20	
--	21	SPARE	20 A	1	--	--	--		0	0		--	1	20 A	SPARE	22	
--	23	SPARE	20 A	1	--	--	--			0	0	--	1	20 A	SPARE	24	
--	25	SPARE	20 A	1	--	--	--	0	0			--	1	20 A	SPARE	26	
--	27	SPARE	20 A	1	--	--	--		0	0		--	1	20 A	SPARE	28	
--	29	SPARE	20 A	1	--	--	--			0	0	--	1	20 A	SPARE	30	
Total Load:			2.83 kVA		1.67 kVA			1.67 kVA									
Total Amps:			23.59		13.89			13.89									

LOAD CLASSIFICATION

CONNECTED LOAD

DEMAND FACTOR

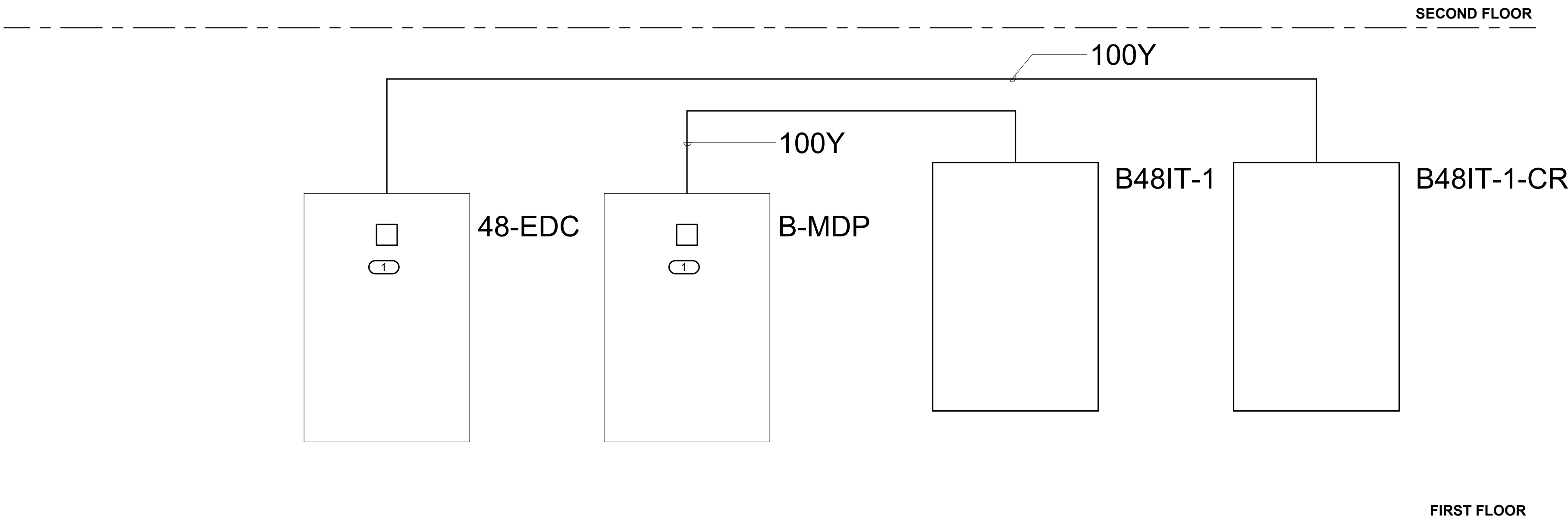
ESTIMATED DEMAND

TOTALS\*

Lighting	0.444 kVA	100.00%	0.444 kVA	
Power	5 kVA	100.00%	5 kVA	TOTAL CONNECTED LOAD: 6.16 kVA
Receptacles	0.72 kVA	100.00%	0.72 kVA	TOTAL ESTIMATED DEMAND LOAD: 6.164 kVA
				TOTAL CONNECTED AMPS: 17.11 A
				TOTAL ESTIMATED DEMAND AMPS: 17.1 A

\*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:



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Date: 03/30/2022

License Number: MN#

DRAWING TITLE

ELECTRICAL ONE-LINE  
DIAGRAMS & SCHEDULES

PROJECT FILE

EHRM INFRASTRUCTURE  
UPGRADES

DATE: 03/30/2022

PLOT SCALE

PROJECT NO: 656-21-235

DRAWING NO: 48-E500

BUILDING NO: 48

CHECKED BY: TBD

DRAWN: GJL

LOCATION: VA MEDICAL CENTER  
ST. CLOUD, MN 56303

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VA

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of Veterans Affairs  
Veterans Health  
Administration  
St. Cloud VA  
Health Care System

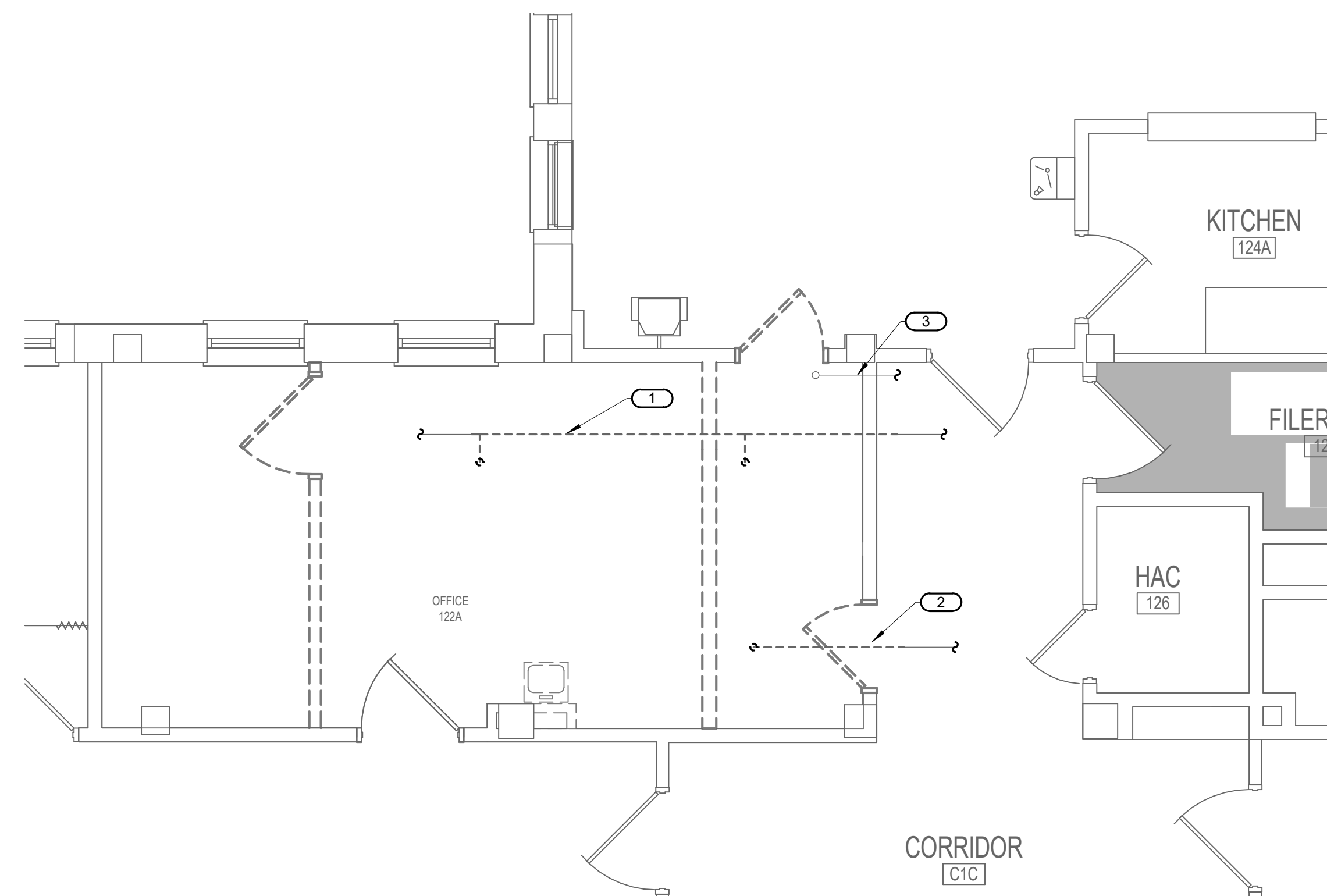
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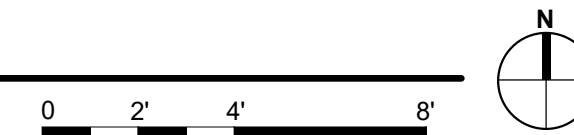
[illegible]

1. THE HVAC CONTRACTOR SHALL VISIT THE SITE **PRIOR TO BID** TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID. THE FOLLOWING ITEMS SHALL BE VERIFIED:
  - A. EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER, AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER EXPLICITLY SHOWN OR NOT.
  - B. SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
  - C. SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS AND DIFFUSERS.
  - D. SIZE AND LOCATION OF ALL EXISTING THERMOSTATIC CONTROL DEVICES.
  - E. SIZE AND LOCATION OF ALL EXISTING PLUMBING AND HYDRONIC PIPING
2. ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, THERMOSTATS AND PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN THEIR BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
3. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
4. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.

1. DEMOLISH EXISTING FIRE SPRINKLER HEADS AND BRANCH LINE AS SHOWN. PREPARE FOR RECONNECTION.
2. DEMOLISH EXISTING FIRE SPRINKLER HEAD AND BRANCH LINE AS SHOWN. PREPARE FOR RECONNECTION.
3. 3/4" COPPER WATER PIPE TO REMAIN.



**1 FIRST FLOOR DEMOLITION PLAN - MECHANICAL - TELECOM 123**  
1/4" = 1'-0"



	<b>100% CD</b>	<b>03/30</b>
No	REVISION	DATE



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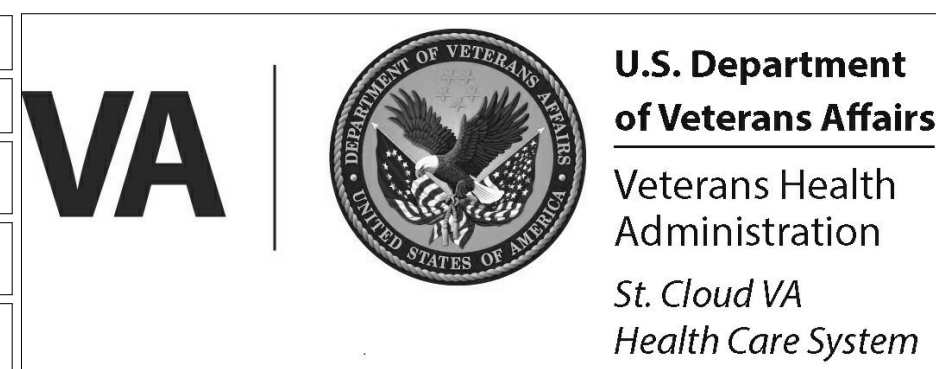
Date: 03/30/2022

License Number: MN# \_\_\_\_\_

DRAWING TITLE

**FIRST FLOOR  
DEMOLITION PLAN -  
MECHANICAL**

PROJECT TITLE		DATE: <b>03/30/2022</b>	
<b>EHRM INFRASTRUCTURE UPGRADES</b>		PLOT SCALE	
		PROJECT NO: <b>656-21-235</b>	
BUILDING NO: <b>48</b>	CHECKED BY: <b>RDL</b>	DRAWN <b>DJC</b>	DRAWING NO: <b>48-M101</b>
LOCATION VIA MEDICAL CENTER ST. CLOUD, MN 56303		FULLY SPRINKLERED DWG. OF	

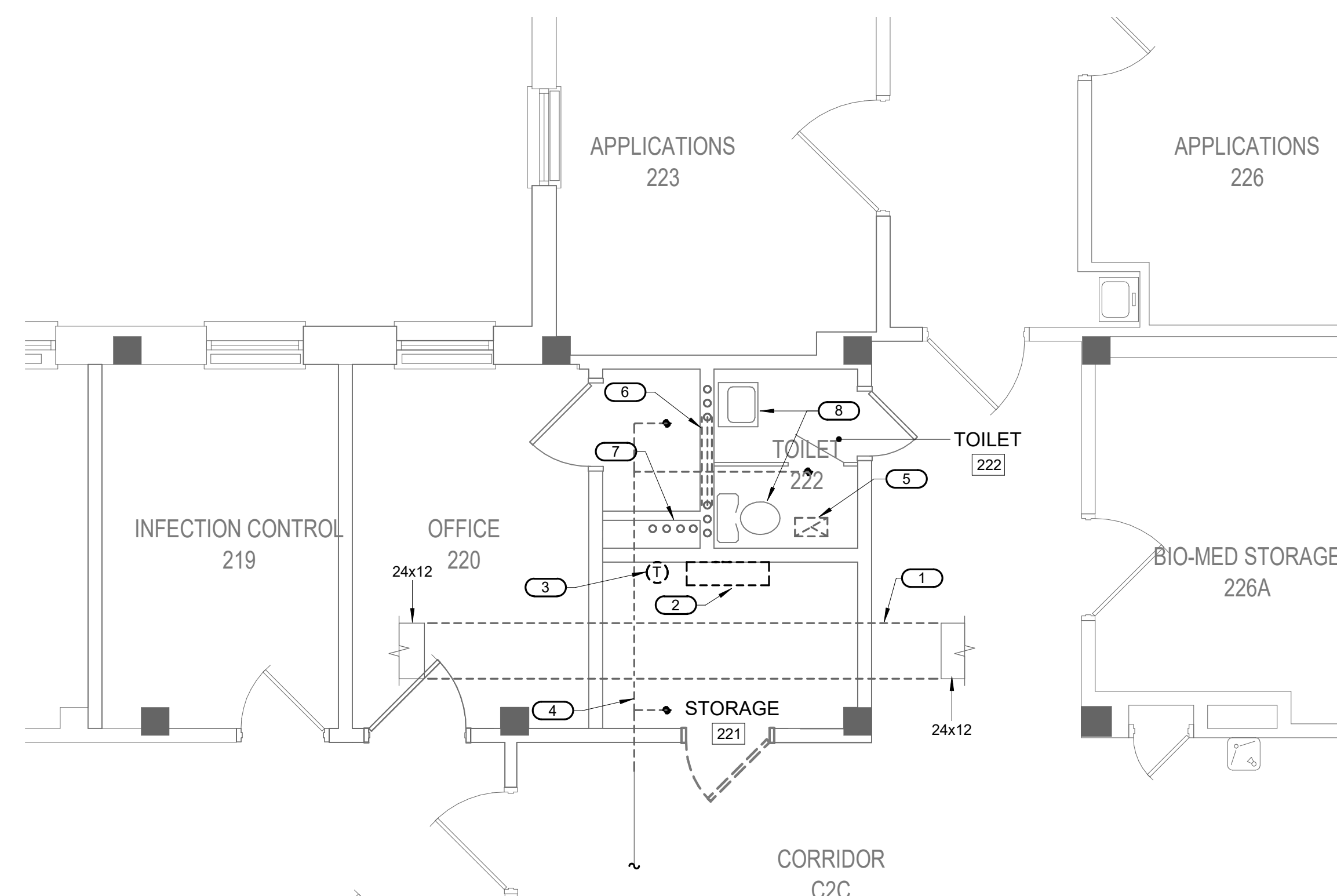


**FIELD VERIFICATION NOTES**

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  - B. SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
  - C. SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS AND DIFFUSERS.
  - D. SIZE AND LOCATION OF ALL EXISTING THERMOSTATIC CONTROL DEVICES.
  - E. SIZE AND LOCATION OF ALL EXISTING PLUMBING AND HYDRONIC PIPING
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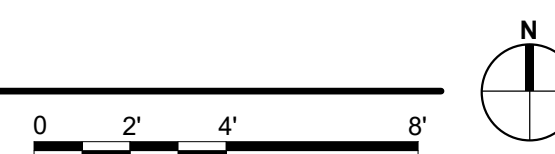
## KEYNOTES 1/48-M102: #

1. REMOVE AND DISPOSE OF EXISTING SUPPLY AIR DUCT AS SHOWN. PREPARE FOR RECONNECTION. FIELD VERIFY EXIST REQUIREMENTS.
2. EVACUATE AND CAPTURE EXISTING REFRIGERANT, AND DISPOSE OF IN ACCORDANCE WITH SPECIFICATIONS AND ALL REGULATORY REQUIREMENTS. REMOVE AND DISPOSE OF EXISTING DUCTLESS SPLIT AC UNIT ALONG WITH ALL ASSOCIATED REFRIGERANT PIPING, CONDENSING UNIT, CONDENSING PANS AND CONTROLS.
3. REMOVE AND DISPOSE OF EXISTING THERMOSTAT AND ASSOCIATED WIRING.
4. REMOVE AND DISPOSE OF EXISTING FIRE SPRINKLER HEADS AND BRANCH LINES BACK TO LOCATION SHOWN PREPARE FOR RECONNECTION.
5. REMOVE/AND DISPOSE OF EXISTING EXHAUST REGISTER AND ASSOCIATED DUCTWORK. CAP DUCT IN ATTIC.
6. REMOVE AND DISPOSE OF EXISTING PLUMBING PIPING IN WALL AND CAP BACK AT MAINS.
7. REMOVE AND DISPOSE OF EXISTING 3" SANITARY, 2" VENT, 1" CW AND 3/4" HW PIPING IN CHASE FROM CEILING OF FIRST FLOOR TO ATTIC. PREP VENT PIPE FOR REROOFING.
8. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES.



**1 SECOND FLOOR DEMOLITION PLAN - MECHANICAL - STORAGE 221**  
1/4" = 1'-0"

1/4" = 1'-0"



	<b>100% CD</b>	<b>03/30</b>
No	REVISION	DATE

CONSULTA



ARCHITECT/ENGINEER OF

# ANDERSON

13605 1st Ave. N. #100 Plymouth, MN 55441  
P 763.412.4000 | F 763.412.4090 | ae-mn.com  
Anderson Engineering of Minnesota, LLC | Proj # 16305

STAM

I hereby certify that this plan, specification or report was prepared by me and under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota.

Name: \_\_\_\_\_

Date: 03/30/2022

License Number: MN# \_\_\_\_\_

	DRAWING TITLE
--	---------------

**SECOND FLOOR  
DEMOLITION PLAN -  
MECHANICAL**

PROJECT TITLE

## EHRM INFRASTRUCTURE

## UPGRADES

Page 10 of 10

BUILDING NO.	CHECKED BY	DRAWN BY
48	RDL	DJ

DATE: 03/30/2022

PLOT SCALE

PROJECT NO.  
656 91 885

656-21-235

DRAWING NO.  
**48-M102**



**U.S. Department  
of Veterans Affairs**  
Veterans Health  
Administration  
St. Cloud VA  
Health Care System

FIELD VERIFICATION NOTES

1. THE HVAC CONTRACTOR SHALL VISIT THE SITE **PRIOR TO BID** TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID. THE FOLLOWING ITEMS SHALL BE VERIFIED:
- A.

EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER, AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER EXPLICITLY SHOWN OR NOT.
- B.

SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
- C.

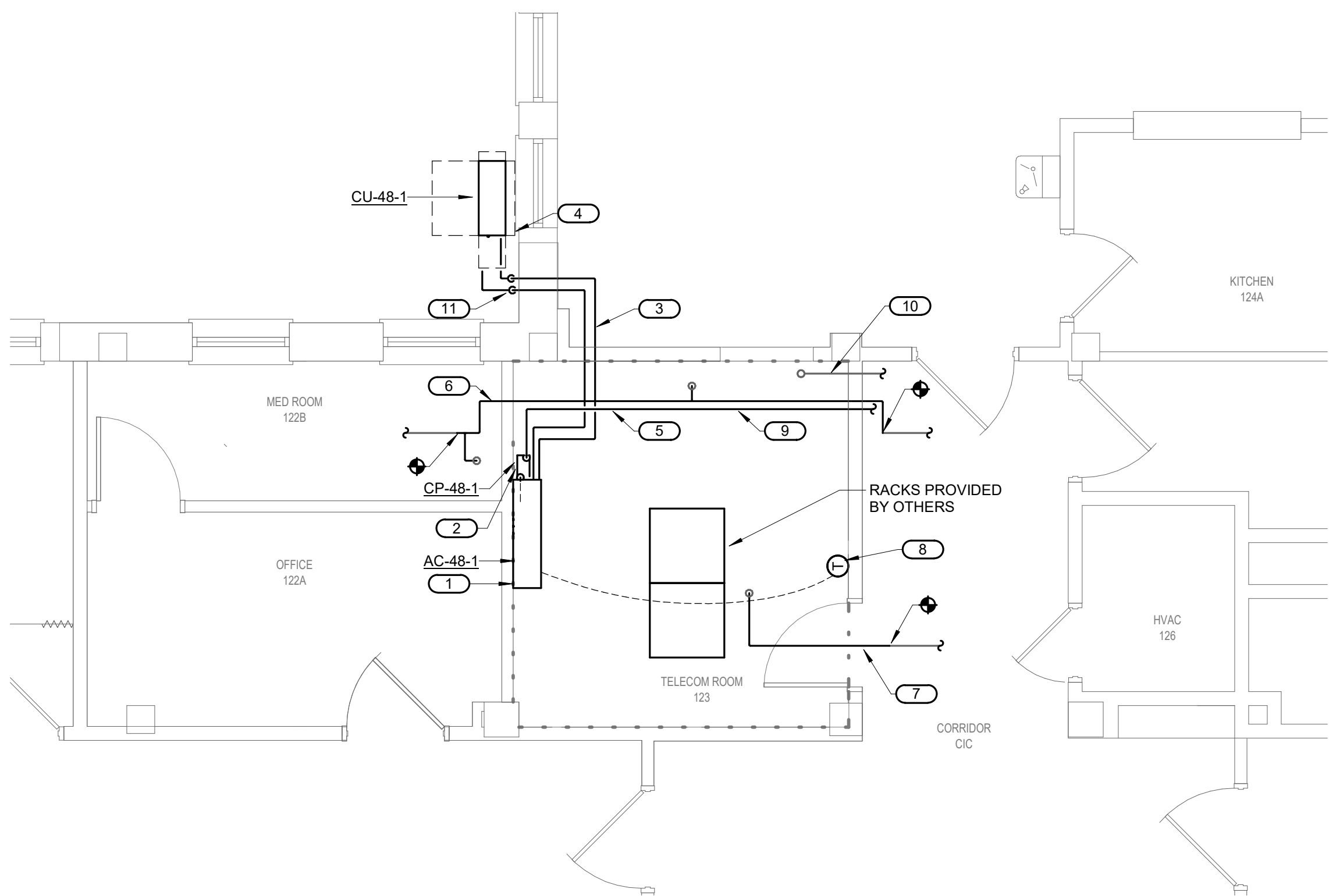
SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS AND DIFFUSERS.
- D.

SIZE AND LOCATION OF ALL EXISTING THERMOSTATIC CONTROL DEVICES.
- E.

SIZE AND LOCATION OF ALL EXISTING PLUMBING AND HYDRONIC PIPING
2. ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, THERMOSTATS AND PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN THEIR BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
3. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
4. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.

KEYNOTES 1/48-M201: 8

1. PROVIDE NEW WALL-MOUNTED DUCTLESS COOLING UNIT AC-48-1.
2. PROVIDE CONDENSATE PUMP.
3. ROUTE NEW REFRIGERANT PIPING TO NEW AIR-COOLED CONDENSING UNIT ON GRADE.
4. PROVIDE NEW AIR-COOLED CONDENSING UNIT CU-48-1. PROVIDE CONCRETE PAD. REFER TO REFRIGERANT PIPING DETAIL 1/0-GM400 AND PAD MOUNTING DETAIL 3/0-GM401
5. ROUTE 1" PUMPED CONDENSATE PIPE TO MOP SINK IN HAC 126, APPROXIMATELY 25 FEET EAST. COORDINATE FINAL ROUTING IN FIELD.
6. REROUTE EXISTING FIRE SPRINKLER LINE AND PROVIDE NEW SPRINKLER HEADS AS REQUIRED.
7. EXTEND EXISTING FIRE SPRINKLER LINE AND PROVIDE NEW SPRINKLER HEAD.
8. PROVIDE NEW THERMOSTAT.
9. PROVIDE DRIP PAN FOR CONDENSATE PIPE IN TR ROOM. SEE DETAIL FOR REQUIREMENTS
10. 3/4" COPPER WATER PIPE TO REMAIN, PROVIDE DRIP PAN AND PIPE WRAP. SEE 8/0-GM400 FOR REQUIREMENTS.
11. REFERE TO 4/0-GM401 FOR WALL PENETRATION SEALING DETAIL.



1 FIRST FLOOR PLAN - MECHANICAL - TELECOM 123  
1/4" = 1'-0"

