

# BUILDING 51 - EHRM INFRASTRUCTURE UPGRADES

## St. Cloud VA Health Care System Main Campus, St. Cloud, Minnesota

### OWNER AND CONSULTANTS:

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ADDRESS: ST CLOUD VA MEDICAL CENTER  
4801 VETERANS DRIVE  
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PHONE: 320-252-1670

PROGRAM MANAGER:  
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4801 VETERANS DRIVE  
ST. CLOUD, MN 56303  
PHONE: 504-250-2699  
EMAIL: Jonathan.West@vcaint.com

CIVIL ENGINEER:  
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PHONE: 763-412-4000

ARCHITECT:  
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EDINA, MN 55439

CONTACT: ZACHARY CRAIG  
PHONE: 952-854-9302

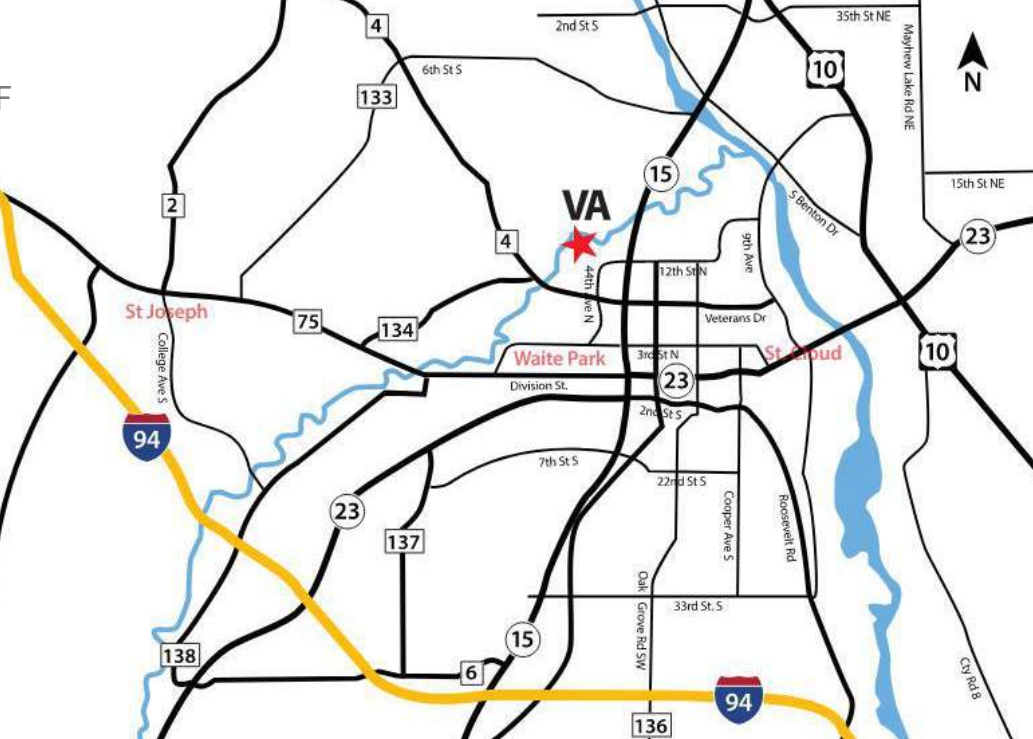
TELECOMMUNICATIONS ENGINEER:  
NAME: SPECIALIZED ENGINEERING SOLUTIONS  
ADDRESS: 10360 ELLISON CIRCLE  
OMAHA, NE 68134

CONTACT: KRIS BURNHAM  
PHONE: 402-991-5520

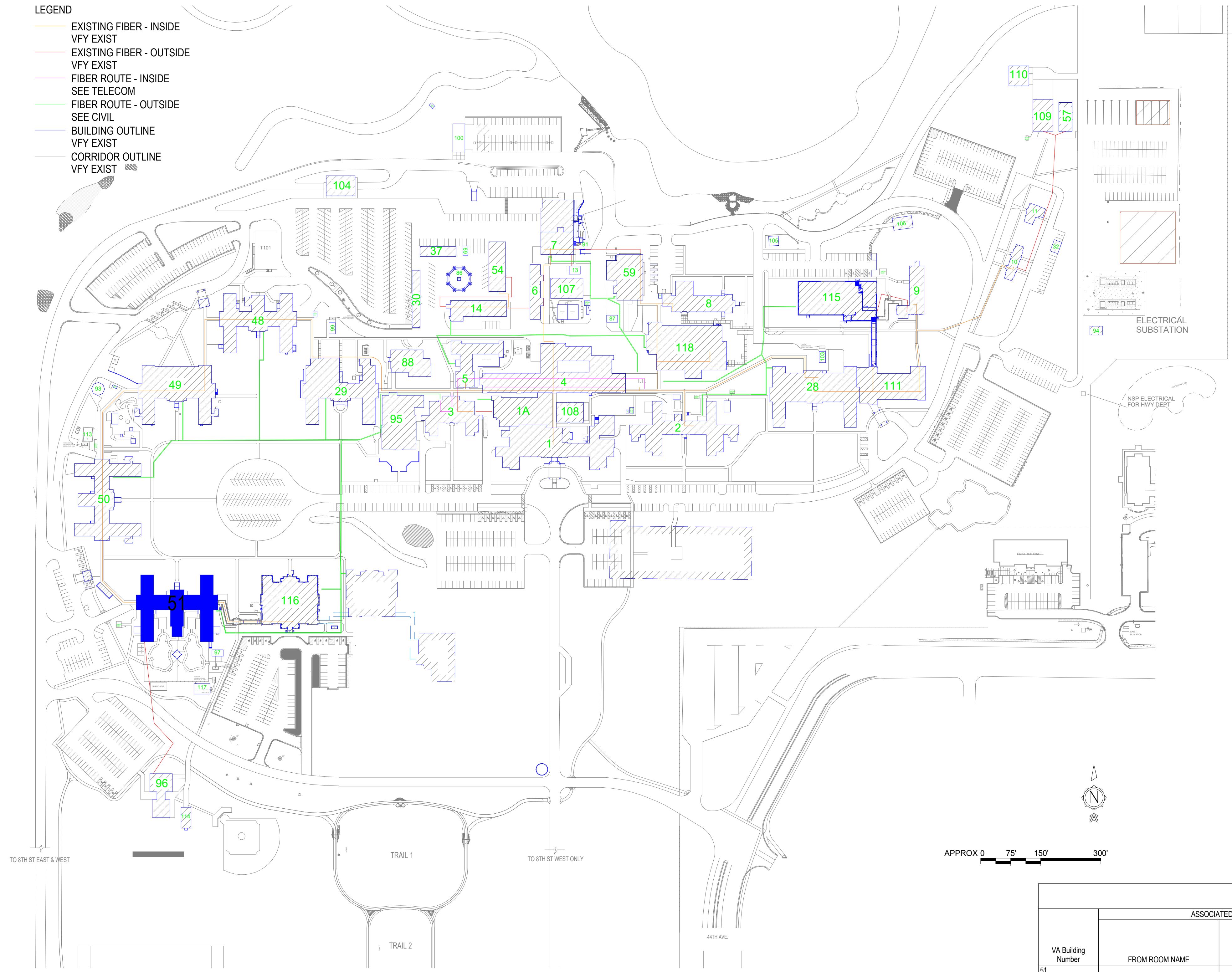
MECHANICAL/PLUMBING/FIRE ENGINEER:  
NAME: SPECIALIZED ENGINEERING SOLUTIONS  
ADDRESS: 10360 ELLISON CIRCLE  
OMAHA, NE 68134

CONTACT: KRIS BURNHAM  
PHONE: 402-991-5520

### VICINITY MAP:



- LEGEND
- EXISTING FIBER - INSIDE VFY EXIST
  - EXISTING FIBER - OUTSIDE VFY EXIST
  - FIBER ROUTE - INSIDE SEE TELECOM
  - FIBER ROUTE - OUTSIDE SEE CIVIL
  - BUILDING OUTLINE VFY EXIST
  - CORRIDOR OUTLINE VFY EXIST



SHEET INDEX - BUILDING 51	
SHEET NO.	SHEET TITLE
51-G1000	BUILDING 51 COVER SHEET & SHEET INDEX
51-G101	BASEMENT FLOOR - INFECTION CONTROL & PHASING PLAN
51-G111	FIRST FLOOR - INFECTION CONTROL & PHASING PLAN
51-HA-1A	REFERENCE - SUBBASEMENT FLOOR ASBESTOS RE-SURVEY
51-HA-2A	REFERENCE - BASEMENT FLOOR ASBESTOS RE-SURVEY
51-HA-3A	REFERENCE - FIRST FLOOR ASBESTOS RE-SURVEY
51-HA-4A	REFERENCE - SECOND FLOOR ASBESTOS RE-SURVEY
51-AS100	BASEMENT FLOOR PLANS
51-AS110	FIRST FLOOR - OVERALL PLAN
51-AS120	SECOND FLOOR - OVERALL PLAN
51-TD100	BASEMENT FLOOR PLAN - ELECTRICAL DEMOLITION
51-TD110	FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
51-TD120	SECOND FLOOR PLAN - ELECTRICAL DEMOLITION
51-TN100	BASEMENT FLOOR PLAN - TELECOMMUNICATIONS
51-TN110	FIRST FLOOR PLAN - TELECOMMUNICATIONS
51-TN120	SECOND FLOOR PLAN - TELECOMMUNICATIONS
51-TN200	BASEMENT FLOOR PLAN - TELECOM - CABLE DISTANCE
51-TN400	ENLARGED PLANS - TELECOMMUNICATIONS
51-E100	BASEMENT FLOOR PLAN - ELECTRICAL
51-E101	FIRST FLOOR PLAN - ELECTRICAL
51-E300	ENLARGED PLANS - ELECTRICAL
51-E500	ELECTRICAL DIAGRAMS
51-E600	ELECTRICAL SCHEDULES
51-M100	BASEMENT DEMOLITION PLAN - MECHANICAL
51-M200	BASEMENT FLOOR PLAN - MECHANICAL
SEE GENERAL SHEETS FOR ADDITIONAL INFORMATION	

ROOM SCHEDULE																	
NO.	NAME	CABING	PATCH/PANEL	FIBER	POWER	BONDING	UPS	DEDICATED COOLING	TEMPERATURE	HUMIDITY	RACK/SENSOR	SPACE	AREA	WIDTH (FT)	LENGTH (FT)	HT TO CLC STRUCT	REMARKS
BASEMENT																	
001	TELECOM ROOM	X	X	X	X	X	X	X	X	X	X	X	147 SF	8.2	18.2		CONSTRUCT TO EHRM TELECOM ROOM STANDARDS. SEE TELECOM DRAWINGS
FIRST FLOOR																	
103A	EXIST RM												23 SF	7.3	6.2	11.50	DECOMMISSION EXIST IT/DATA ROOM. SEE TELECOM DRAWINGS RELOCATE FUNCTIONS TO ROOM 001

HAZARDOUS MATERIAL SCHEDULE				
LEVEL	ROOM NO.	ROOM NAME	QUESTIONABLE HAZARDOUS ELEMENT	POSSIBLE ABATEMENT ACTION
BASEMENT	001	TELECOM ROOM	ASBESTOS CONTAINING MASTIC UNDER T.I.C. SEE 51-HA-2A	REMOVE HAZARDOUS MATERIAL UNDER FULL CONTAINMENT
FIRST FLOOR	103A	EXIST RM	NONE. SEE 51-HA-3A	NONE. ACM TO REMAIN UNDISTURBED

HAZARDOUS MATERIALS MAY BE ENCOUNTERED THROUGHOUT THE DISTRIBUTION ROUTING THROUGH CEILING PLENUMS AND UTILITY TUNNELS. INSTALLATION OF DISTRIBUTION SHALL NOT DISTURB QUESTIONABLE HAZARDOUS MATERIAL.

ICRA PHASE CONSTRUCTION ROOM SCHEDULE									
LEVEL	ROOM NO.	ROOM NAME	CAI BLDG NAME / FUNCTION	CONSTRUCTION PROJECT ACTIVITY	INFECTION CONTROL RISK GROUP	CONTROL PROCEDURE CLASS	SECTION	CONSTRUCTION ZONE / OCCUPIED CONSTR	DAY / NIGHT
BASEMENT	001	TELECOM ROOM	EXTENDED CARE	TYPE C	GROUP 1	CLASS II	WEST	ZONES1	DAY
FIRST FLOOR	103A	EXIST RM	EXTENDED CARE	TYPE B	GROUP 1	CLASS II	WEST	OCCUPIED CONSTRUCTION	DAY

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

LEAK PREVENTION / DIVERTER SCHEDULE				
LEVEL	ROOM NO.	ROOM NAME	OVERHEAD LEAK DIVERTER AND DRAIN PIPING	LEAK PREVENTION BARRIER WATERPROOFING
BASEMENT	001	TELECOM ROOM		MWP INT: EAST
FIRST FLOOR	103A	EXIST RM		

SEE GENERAL NOTES SHEET FOR DETAIL. MWP = MEMBRANE WATERPROOFING. INT = INTERIOR. EXT = EXTERIOR

OPENING SCHEDULE															
VA Building Number	ASSOCIATED ROOMS		OPENING			FRAME INFORMATION			PANEL INFORMATION			COMMENTS			
	FROM ROOM NAME	TO ROOM NAME	NUMBER	WIDTH	HEIGHT	PANEL TYPE	2ND PANEL TYPE	PANEL GLAZING	FRAME TYPE	FRAME GLAZING	HW GROUP		FIRE LABEL (MIN)		
51	TELECOM ROOM	TELECOM ROOM	001	3'-6"	7'-0"	WD-F	NONE	NONE	HMS-1	NONE	HW-3.2B	4S	Y	Y	Y

NO.	REVISION	DATE

CONSULTANT

**AST** SPECIALIZED ENGINEERING SOLUTIONS  
10360 Ellison Circle Omaha, NE 68134  
Phone: 402-991-5520 www.specializedeng.com

ARCHITECT/ENGINEER OF RECORD

**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

STAMP

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

APPROVED: PROJECTOR	DATE:	APPROVED: PATIENT SAFETY	DATE:	APPROVED: O&M MANAGER	DATE:	APPROVED: DIRECTOR/FM	DATE:
APPROVED: SERVICE LINE DIRECTOR	DATE:	APPROVED: SAFETY MANAGER	DATE:	APPROVED: MO MANAGER	DATE:	APPROVED: ASSOCIATE DIRECTOR	DATE:
APPROVED: O&M COORDINATOR	DATE:	APPROVED: CHIEF OF POLICE	DATE:	APPROVED: PROJECTS SECTION MANAGER	DATE:	APPROVED: NURSE EXECUTIVE	DATE:
APPROVED: INFECTION CONTROL NURSE	DATE:	APPROVED: O&M MANAGER	DATE:	APPROVED: ASSISTANT CHIEF ENGINEER	DATE:	APPROVED: CHIEF OF STAFF	DATE:

DRAWING TITLE: BUILDING 51 COVER SHEET & SHEET INDEX

DATE: 03/30/2022

PROJECT NO: 656-21-235

BUILDING NO: 51

CHECKED BY: EM

DRAWN BY: EM

PROJECT NO: 51-G1000

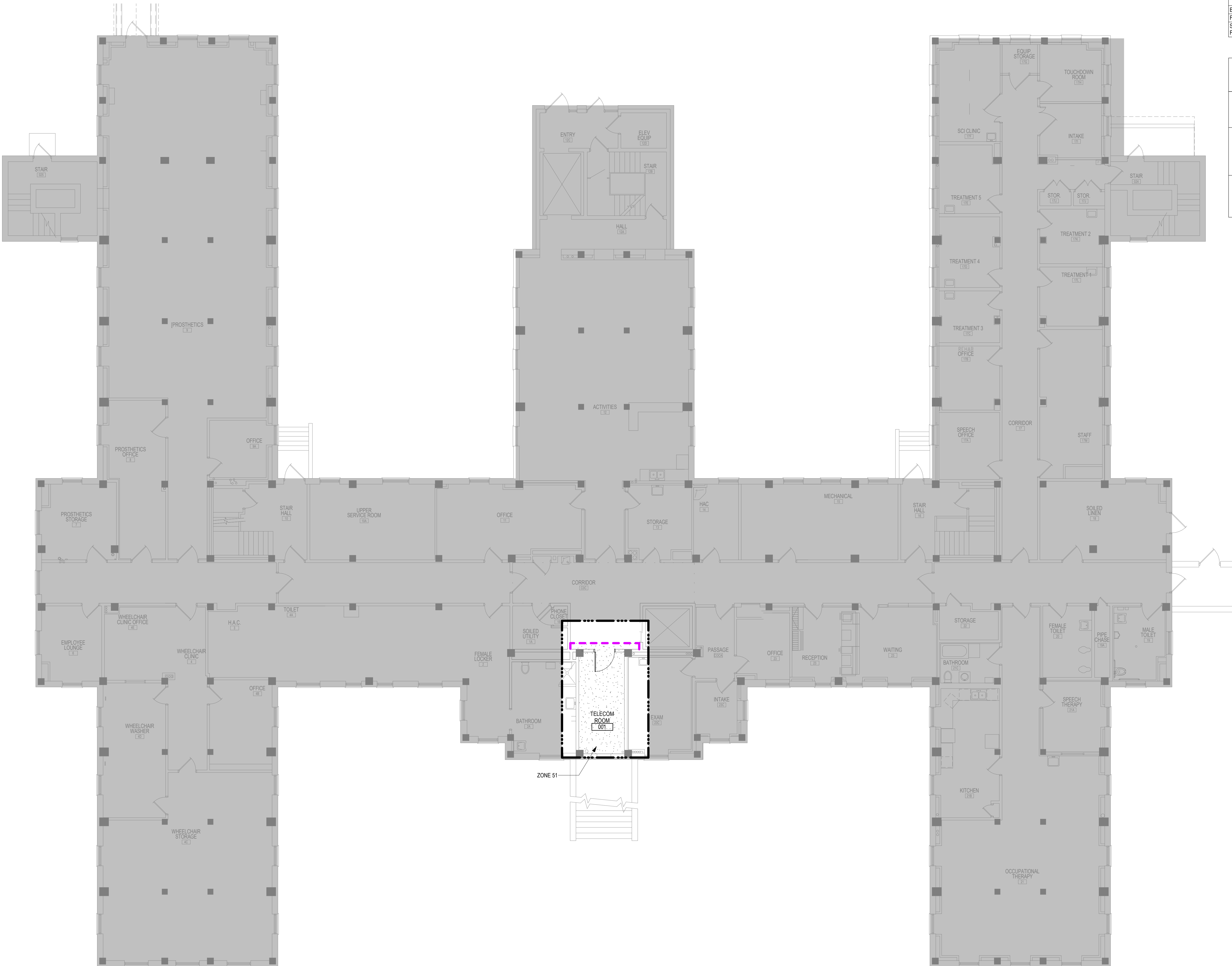
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303

FULLY SPRINKLERED

COVER

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

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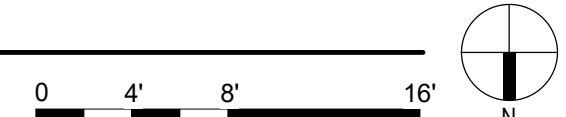


ROOM ICRA SCHEDULE						
LEVEL	ROOM NO.	ROOM NAME	CAI BLDG NAME / FUNCTION	CONSTRUCTION PROJECT ACTIVITY	INFECTION CONTROL RISK GROUP	CONTROL PROCEDURE CLASS
BASEMENT	001	TELECOM ROOM	EXTENDED CARE	TYPE C	GROUP 1	CLASS II
FIRST FLOOR	103A	EXIST FM	EXTENDED CARE	TYPE B	GROUP 1	CLASS II

SEE GENERAL NOTES SHEET FOR CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA) DESCRIPTIONS, TYPE, GROUP AND CLASS SELECTED TO BEST OF DESIGN TEAMS 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 BASEMENT FLOOR - CONST BARRIER PLAN  
1/8" = 1'-0"



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No.	REVISION	DATE

**CONSULTANT**

**SPECIALIZED ENGINEERING SOLUTIONS**  
10360 Illinois Circle  
Omaha, NE 68134  
Phone: 402.991.5530  
www.specializedeng.com

**ARCHITECT/ENGINEER OF RECORD**

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

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

**DRAWING TITLE**  
BASEMENT FLOOR - INFECTION CONTROL & PHASING PLAN

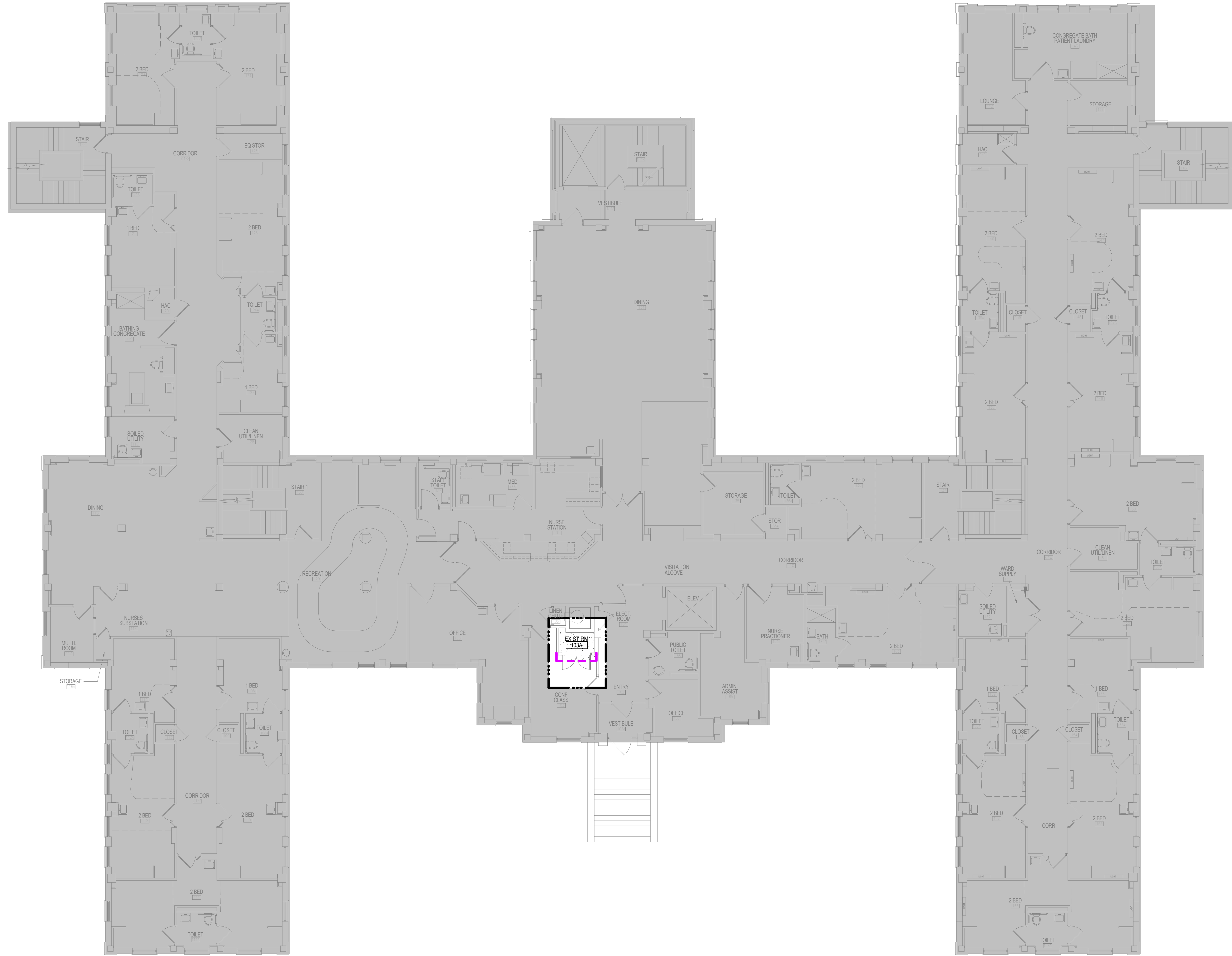
**PROJECT FILE**  
EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE: 1/8" = 1'-0"  
PROJECT NO: 656-21-235

BUILDING No: 51  
CHECKED BY: EM  
DRAWN BY: BMW  
DRAWING No: 51-G101

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

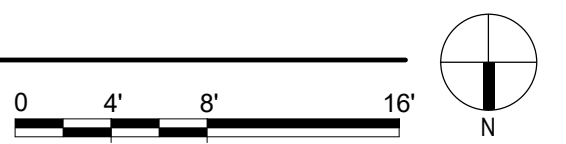


ROOM ICRA SCHEDULE						
LEVEL	ROOM NO.	ROOM NAME	CAI BLDG NAME / FUNCTION	CONSTRUCTION PROJECT ACTIVITY	INFECTION CONTROL RISK GROUP	CONTROL PROCEDURE CLASS
BASEMENT	001	TELECOM ROOM	EXTENDED CARE	TYPE C	GROUP 1	CLASS II
FIRST FLOOR	103A	EXIST RM	EXTENDED CARE	TYPE B	GROUP 1	CLASS II

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INFECTION CONTROL RISK ASSESSMENT (ICRA) LEGEND	
	LIMITS OF CONSTRUCTION
	1 HOUR FIRE RATED ICRA / CONSTRUCTION BARRIER LOCATION, AND DOOR, WHERE SHOWN
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**1** FIRST FLOOR - CONST BARRIER PLAN  
1/8" = 1'-0"



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No.	REVISION	DATE

**CONSULTANT**

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Omaha, NE 68134  
Phone: 402.991.5530  
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**ARCHITECT/ENGINEER OF RECORD**

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

**DRAWING TITLE**  
FIRST FLOOR - INFECTION CONTROL & PHASING PLAN

**PROJECT FILE**  
EHRM INFRASTRUCTURE UPGRADES

**DATE**  
03/30/2022

**PLOT SCALE**  
656-21-235

**BUILDING No.** 51  
**CHECKED BY** EM  
**DRAWN BY** BMW  
**SHOWN BY** 51-G111

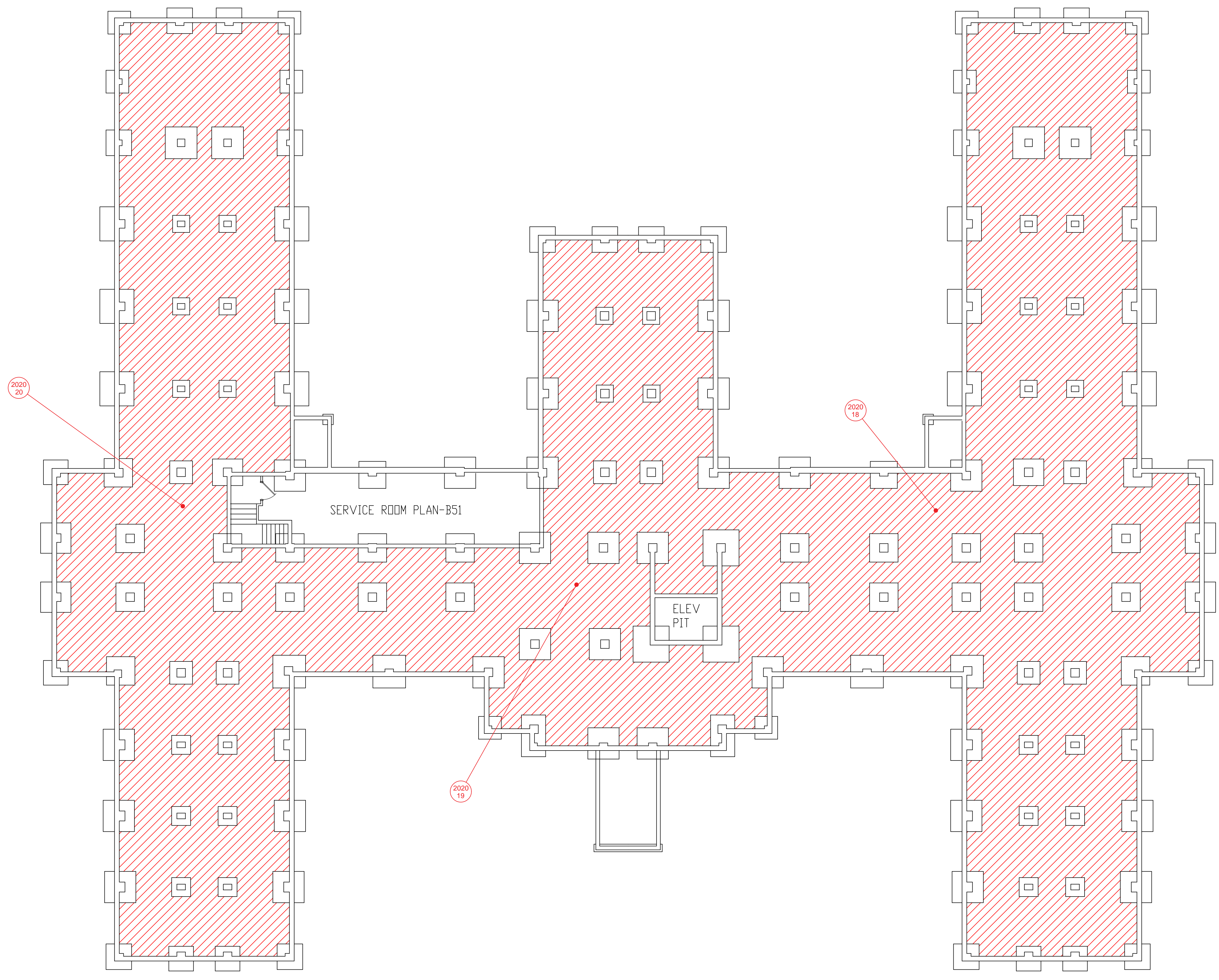
**LOCATION**  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

**FULLY SPRINKLERED**

DWG. OF

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

three inches = one foot  
 one and one-half inches = one foot  
 one inch = one foot  
 three-quarters inch = one foot  
 one-half inch = one foot  
 three-eighths inch = one foot  
 one-quarter inch = one foot  
 one-eighth inch = one foot

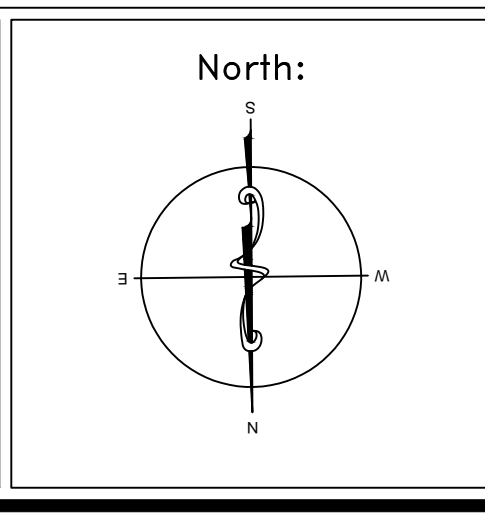


**BUILDING #51 - SUB-BASEMENT FLOOR PLAN**

- LEGEND**
- SAMPLE LOCATION
  - POSITIVE SAMPLE LOCATION
  - ASBESTOS-CONTAMINATED SOIL

Revisions	Dates

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



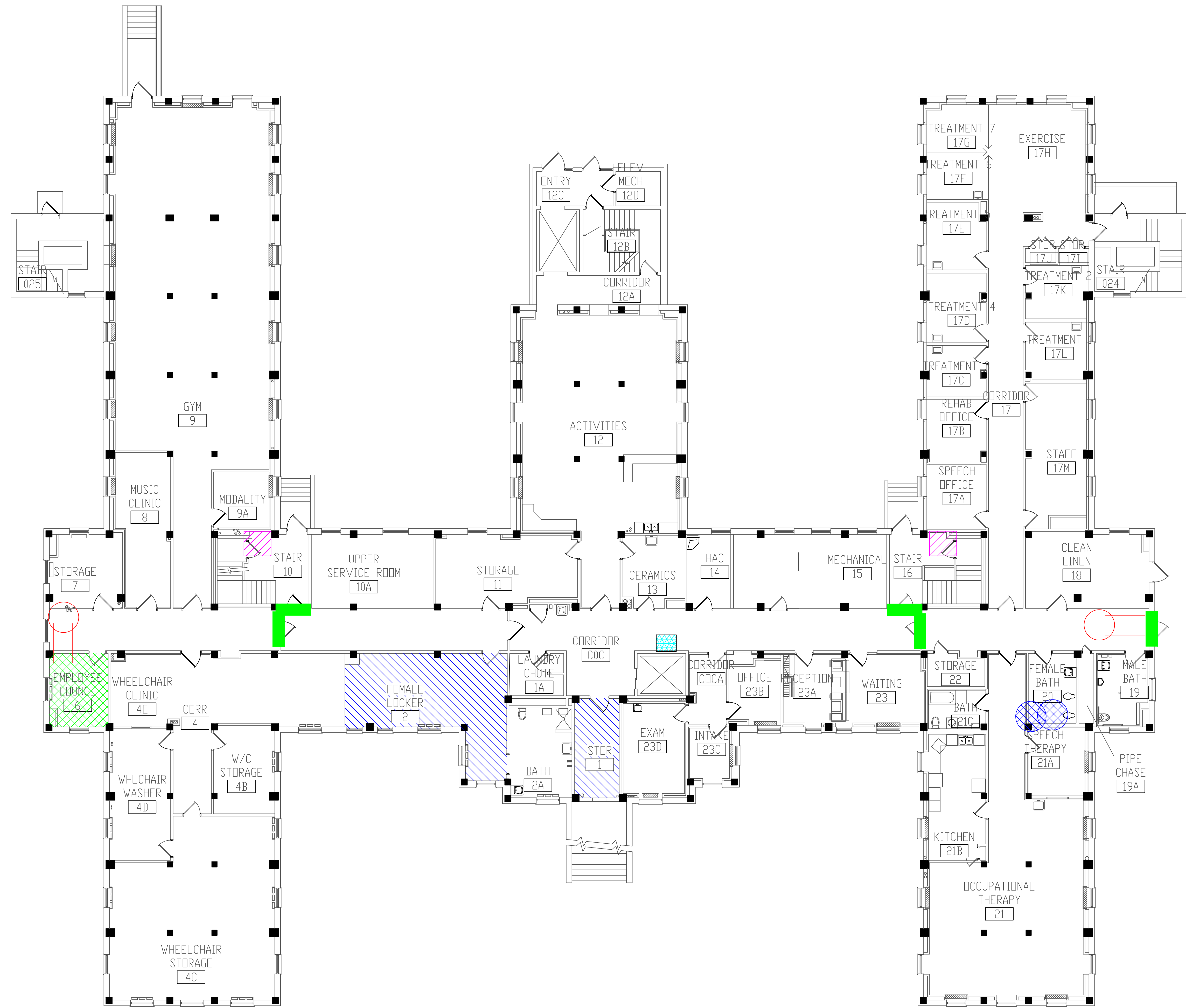
Drawing Title	<b>ARCHITECTURAL PLAN BUILDING 51 Scale: 1/8" = 1'-0"</b>
Approved : Division Chief	
Approved : Service Director	

Project Title	<b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b>		
Building Number	051	Checked	BLB
Drawn	AFS		
Location	ST. CLOUD, MINNESOTA		

Date	<b>NOVEMBER 2019</b>
Project No.	<b>36C26319P1003</b>
Drawing No.	<b>1A</b>
Sheet	56 of 71



three inches = one foot  
 one and one-half inches = one foot  
 one inch = one foot  
 three-quarters inch = one foot  
 one-half inch = one foot  
 three-eighths inch = one foot  
 one-quarter inch = one foot  
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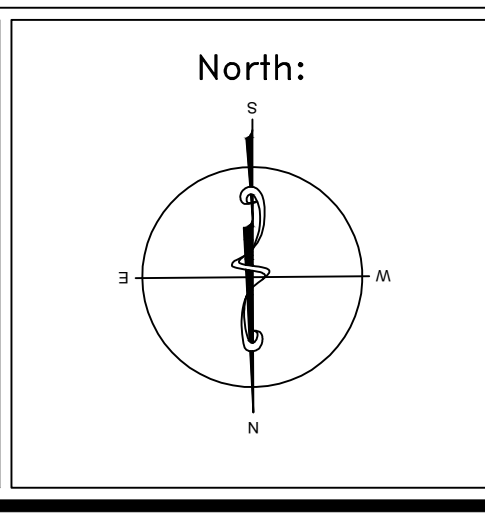


**BUILDING #51 - BASEMENT FLOOR PLAN**

- 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 FLOOR TILE AND CARPET
  - ASBESTOS-CONTAINING WHITE PAPER IN ELECTRICAL BOX
  - ASBESTOS-CONTAINING TRANSITE INSIDE CONVECTOR

Revisions	Dates

ENVIRONMENTAL CONSULTANT:  
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 218-A MECHANIC STREET,  
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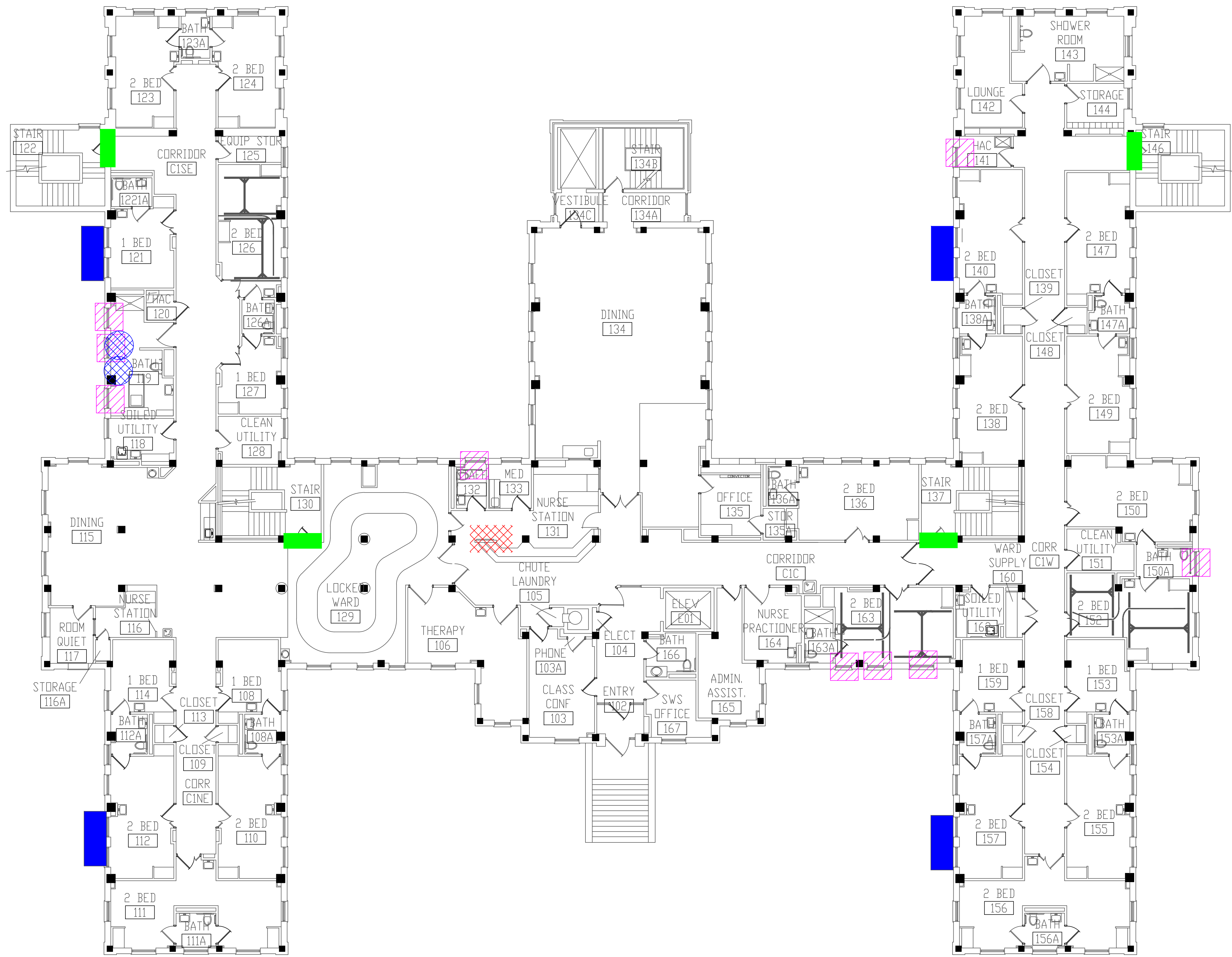
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Approved: Service Director	

Project Title	<b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b>		
Building Number	051	Checked	BLB
Drawn	AFS		
Location	ST. CLOUD, MINNESOTA		

Date	NOVEMBER 2019
Project No.	36C26319P1003
Drawing No.	2A
Sheet	57 of 71



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 one and one-half inches = one foot  
 one inch = one foot  
 three-quarters inch = one foot  
 one-half inch = one foot  
 three-eighths inch = one foot  
 one-quarter inch = one foot  
 one-eighth inch = one foot

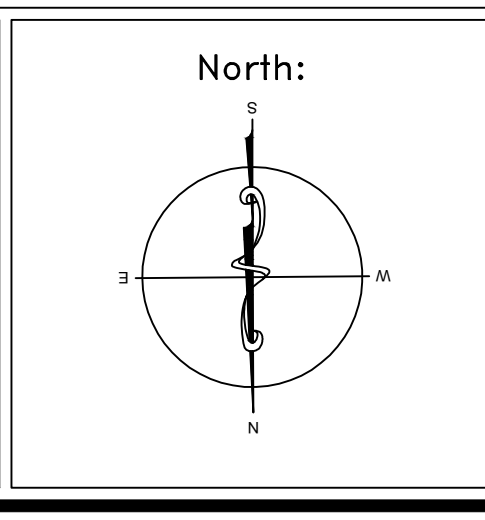


**BUILDING #51 - FIRST FLOOR PLAN**

- LEGEND**
- ASBESTOS-CONTAINING PIPE INSULATION (VERTICAL RISERS)
  - ASBESTOS-CONTAINING FIRE DOOR
  - ASBESTOS-CONTAINING EXTERIOR WALL CAULK
  - ASBESTOS-CONTAINING CEILING TILE MASTIC
  - ASBESTOS-CONTAINING TRANSITE INSIDE CONVECTOR

Revisions	Dates

ENVIRONMENTAL CONSULTANT:  
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 218-A MECHANIC STREET,  
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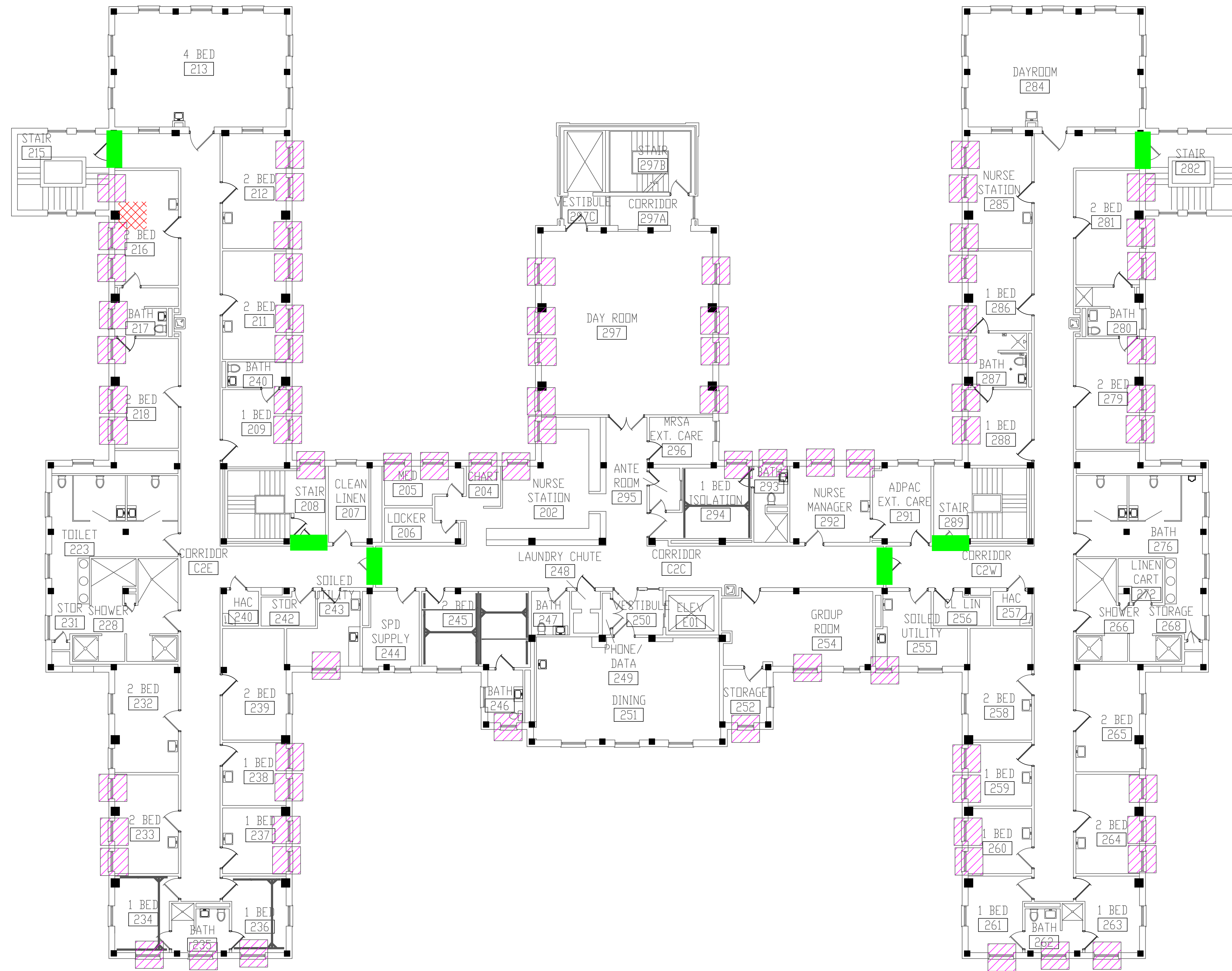
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Approved: Division Chief	
Approved: Service Director	

Project Title	<b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b>		
Building Number	051	Checked	BLB
Drawn	AFS		
Location	ST. CLOUD, MINNESOTA		

Date	NOVEMBER 2019
Project No.	36C26319P1003
Drawing No.	3A
Sheet	58 of 71



three inches = one foot  
 one and one-half inches = one foot  
 one inch = one foot  
 three-quarters inch = one foot  
 one-half inch = one foot  
 three-eighths inch = one foot  
 one-quarter inch = one foot  
 one-eighth inch = one foot

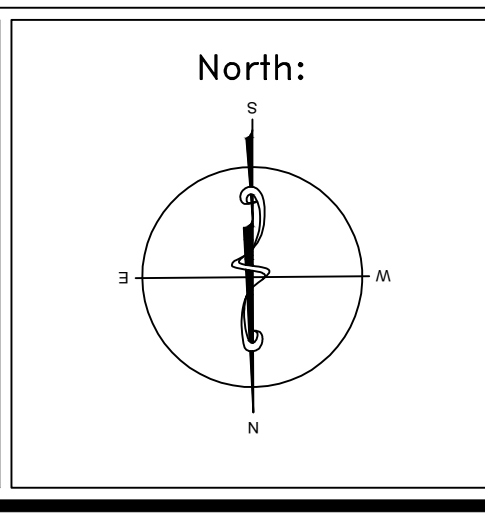


**BUILDING #51 - SECOND FLOOR PLAN**

- LEGEND**
- ASBESTOS-CONTAINING FIRE DOOR
  - ASBESTOS-CONTAINING CEILING TILE MASTIC
  - ASBESTOS-CONTAINING TRANSITE INSIDE CONVECTOR

Revisions	Dates

ENVIRONMENTAL CONSULTANT:  
**CASTLE HILL ASSOCIATES, LLC.**  
 218-A MECHANIC STREET,  
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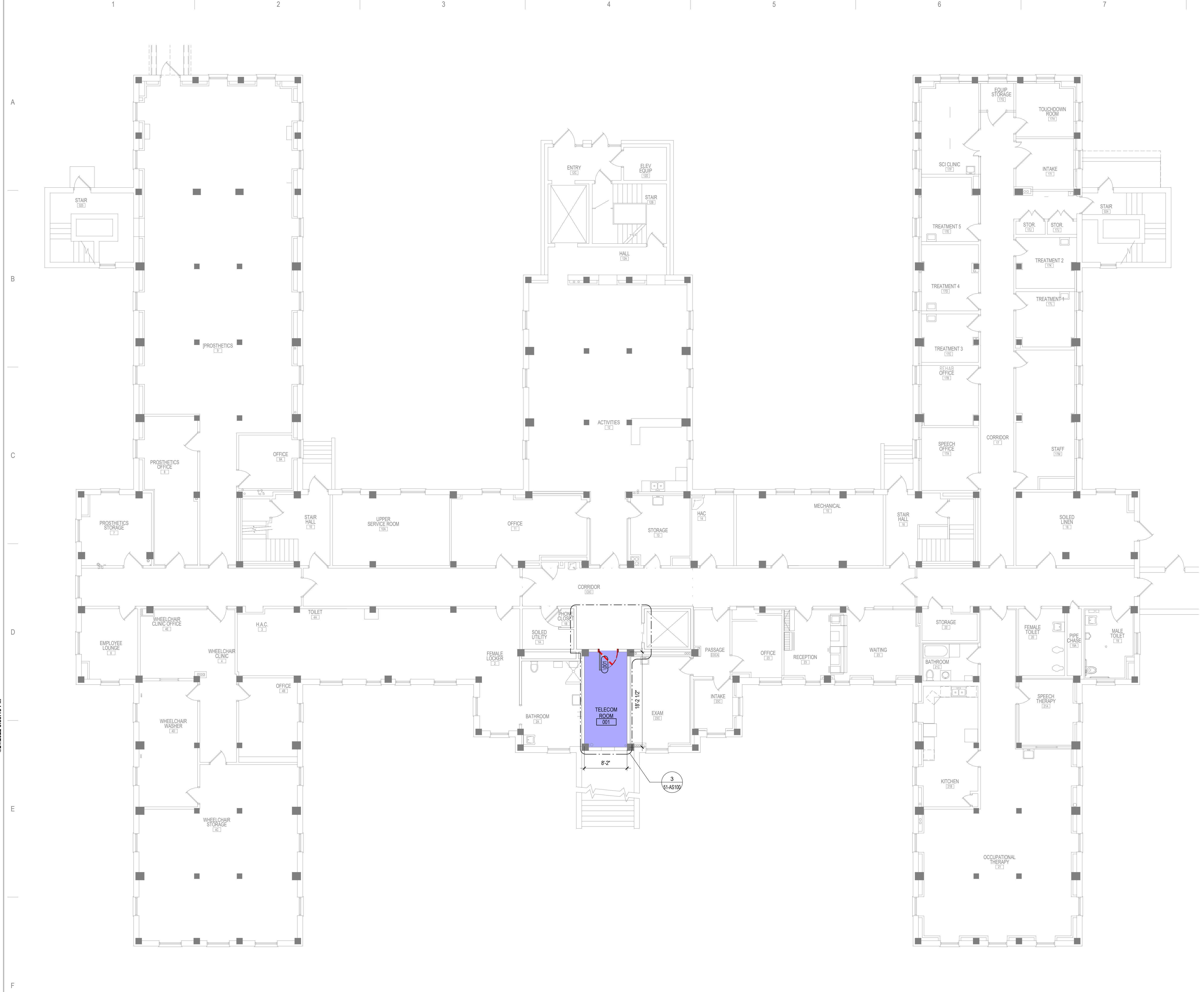


Drawing Title	<b>ARCHITECTURAL PLAN BUILDING 51 Scale: 1/8" = 1'-0"</b>
Approved: Division Chief	
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Project Title	<b>FACILITY ASBESTOS RE-SURVEY VETERANS ADMINISTRATION MEDICAL CENTER ST. CLOUD, MINNESOTA</b>		
Building Number	051	Checked	BLB
Drawn	AFS		
Location	ST. CLOUD, MINNESOTA		

Date	NOVEMBER 2019
Project No.	36C26319P1003
Drawing No.	4A
Sheet	59 of 71





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

**SHEET NOTES**

- SEE GENERAL NOTES AND CAMPUS DRAWINGS FOR GENERAL INFORMATION, LIFE SAFETY, ICRA, AND PHASING
- 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.
- 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.
- SEE CIVIL, STRUCTURAL, TELECOM, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION AND CONSTRUCTION REQUIREMENTS.
- 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.

**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 OPENINGS TO ACCOMMODATE PLAN. SEE FLOOR PLAN AND DOOR SCHEDULE

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 1/2" 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.

FL2 DOOR, SIZE AS SCHEDULED, FIRE RESISTANT AS SCHEDULED

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.

FL4 PATCH TO MATCH FINISHES DISTURBED BY CONSTRUCTION TO MATCH EXISTING. FLOOR AND WALL. CONTRACTOR TO PROVIDE LABOR AND MATERIAL.

FL20 TELECOM EQUIPMENT. SEE TELECOM DRAWINGS.

FL22 LEAK PREVENTION BARRIER WATERPROOFING DETAIL AT EXISTING PARTITION. SEE AS801.

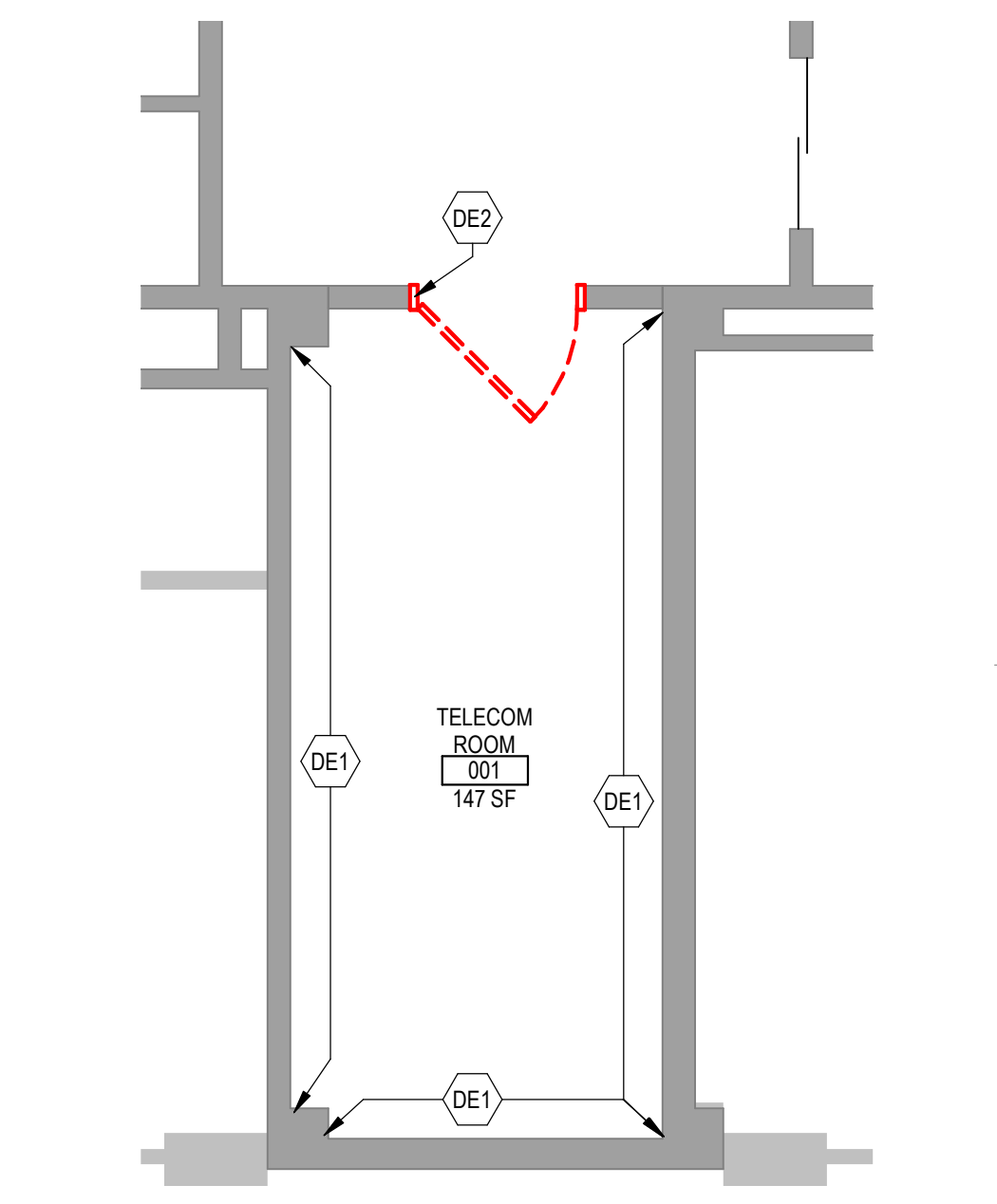
NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**REFLECTED CEILING PLAN KEYED NOTES**

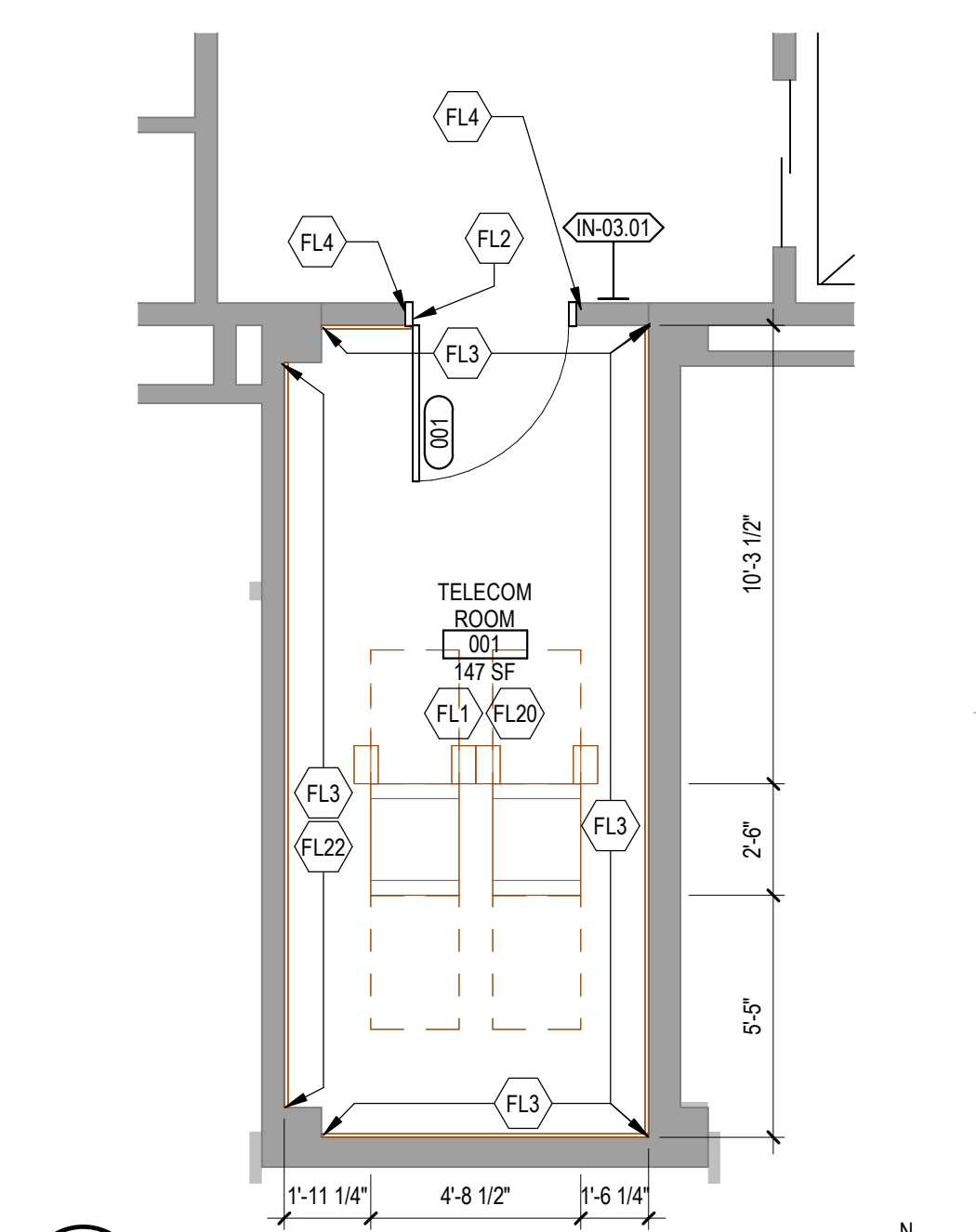
RC1 LED LIGHTING. SEE ELECTRICAL. IN FRONT OF AND BEHIND CABINET ROWS PROVIDE 500 LUMENS IN HORIZONTAL AND 200 LUMENS IN THE VERTICAL AT 3 FT AFF. OPERATED BY MOTION SENSOR PER CABINET ROW OR SECTION.

RC2 OPEN TO STRUCTURAL FLOOR ABOVE

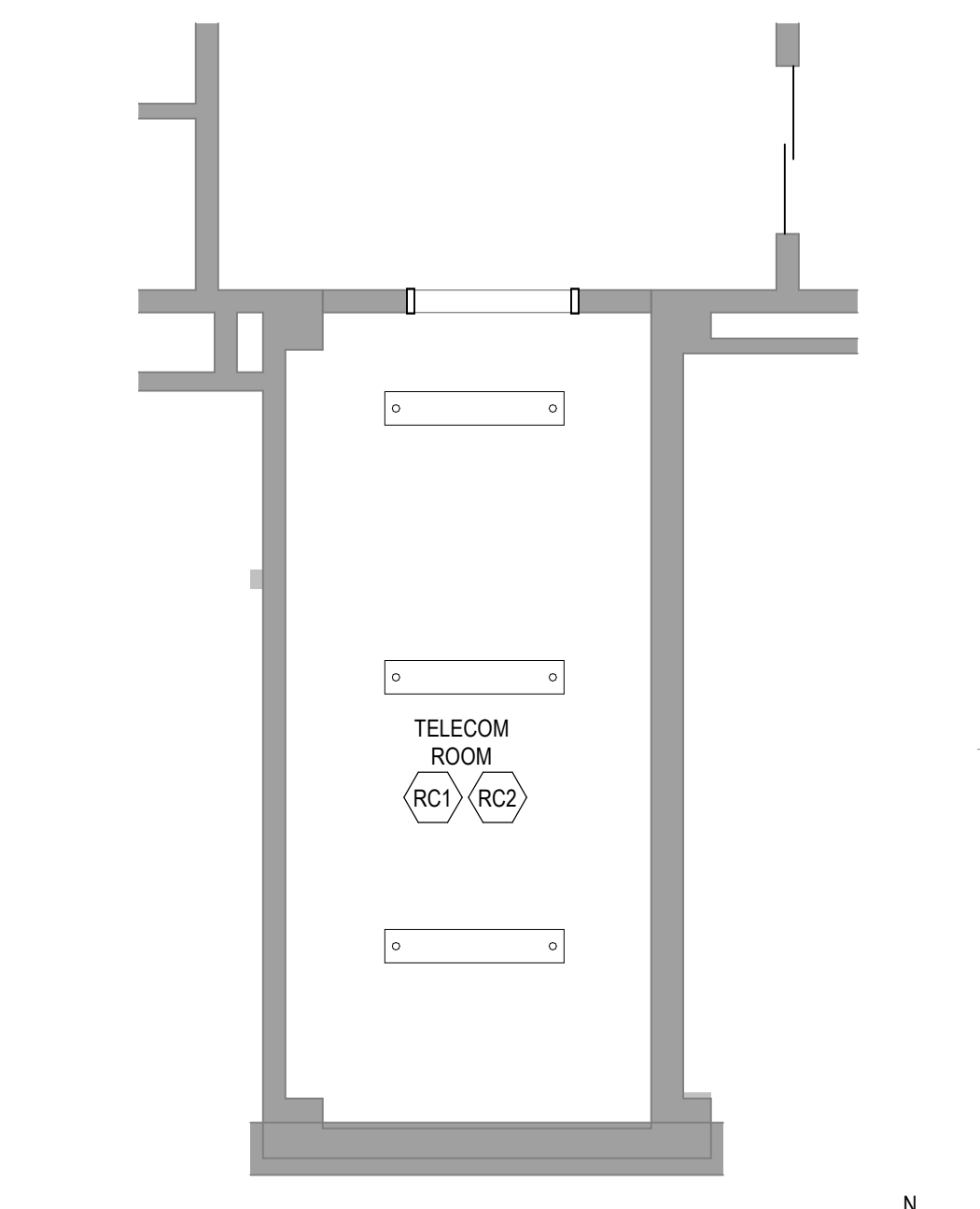
NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



2 PARTIAL DEMOLITION PLAN - RM 001  
1/4" = 1'-0"



3 PARTIAL FLOOR PLAN - RM 001  
1/4" = 1'-0"



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

4/21/2022 3:33:10 PM C:\Users\Public\Documents\Revit Projects\16305-51-R21\_EPlan\for\lvt

NO	REVISION	DATE

**CONSULTANT**

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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

**STAMP**

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 PLANS

**PROJECT FILE**  
EHRM INFRASTRUCTURE UPGRADES

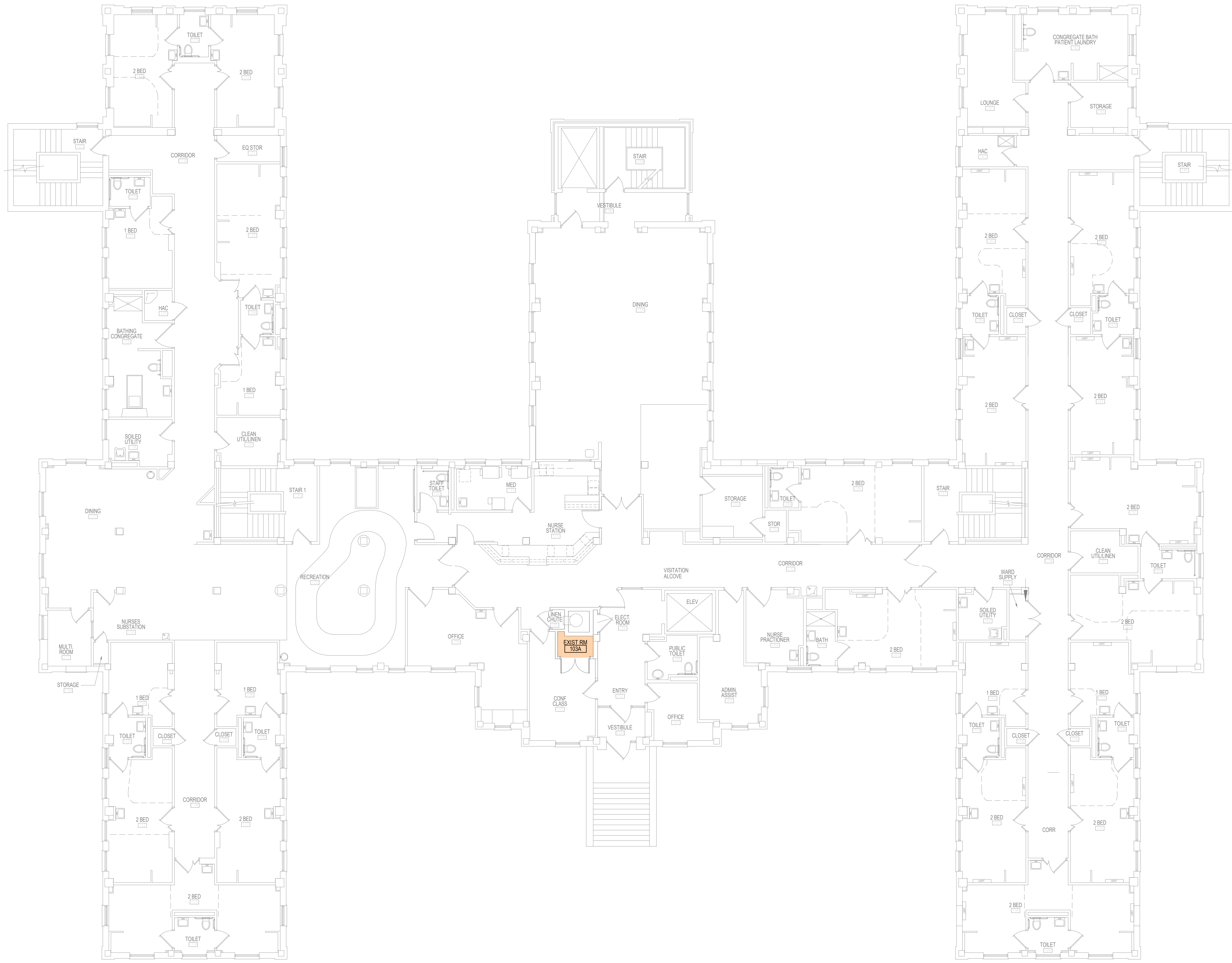
DATE: 03/30/2022  
PLOT SCALE: 1/8" = 1'-0"  
PROJECT NO: 656-21-235  
BUILDING NO: 51  
CHECKED BY: EM  
DRAWN BY: EM  
DRAWING NO: 51-AS100  
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303  
FULLY SPRINKLERED  
DWS OF

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



**SHEET NOTES**

- SEE GENERAL NOTES AND CAMPUS DRAWINGS FOR GENERAL INFORMATION, LIFE SAFETY, ICRA, AND PHASING
- 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.
- 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.
- SEE CIVIL, STRUCTURAL, TELECOM, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION AND CONSTRUCTION REQUIREMENTS.
- 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.



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



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

**DRAWING TITLE**

FIRST FLOOR - OVERALL PLAN

**PROJECT FILE**

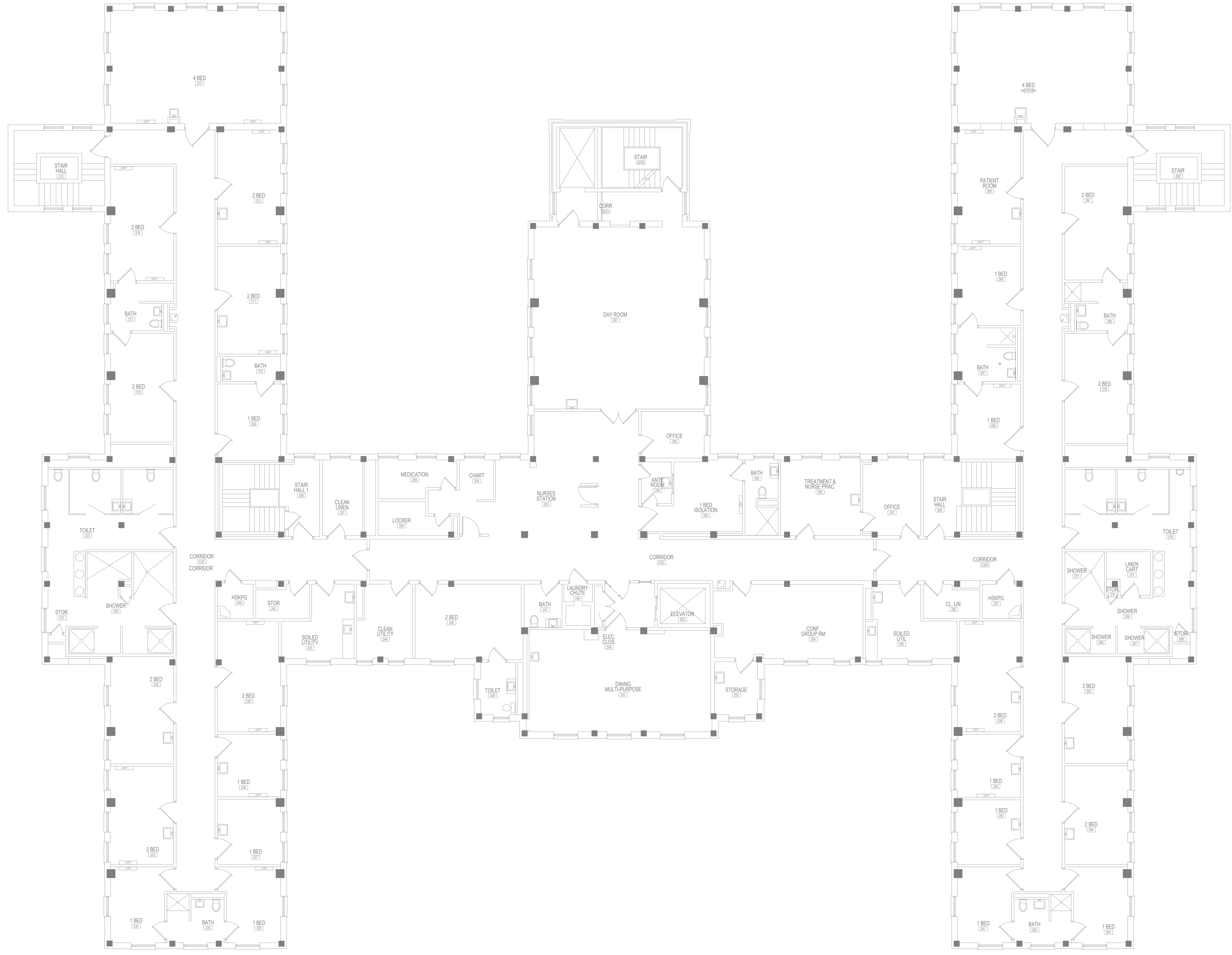
**EHRM INFRASTRUCTURE UPGRADES**

DATE: 03/30/2022  
PLOT SCALE: 1/8" = 1'-0"  
PROJECT NO: 656-21-235  
DRAWING NO: 51-AS110

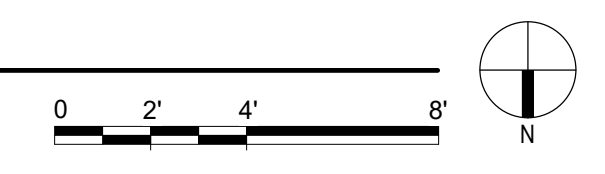
BUILDING No: 51  
CHECKED BY: EM  
DRAWN BY: EM  
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303  
FULLY SPRINKLERED  
DWS. OF

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

- SHEET NOTES**
- SEE GENERAL NOTES AND CAMPUS DRAWINGS FOR GENERAL INFORMATION, LIFE SAFETY, ICRA, AND PHASING
  - 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.
  - 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.
  - SEE CIVIL, STRUCTURAL, TELECOM, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION AND CONSTRUCTION REQUIREMENTS.
  - 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.



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



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No.	REVISION	DATE

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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 Cieslak*

Typed or Printed Name: Tom Cieslak

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

**DRAWING TITLE**

SECOND FLOOR - OVERALL PLAN

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022

PLOT SCALE: 1/8" = 1'-0"

PROJECT NO: 656-21-235

BUILDING No: 51

CHECKED BY: EM

DRAWN BY: EM

DRAWING NO: 51-AS120

LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303

FULLY SPRINKLERED

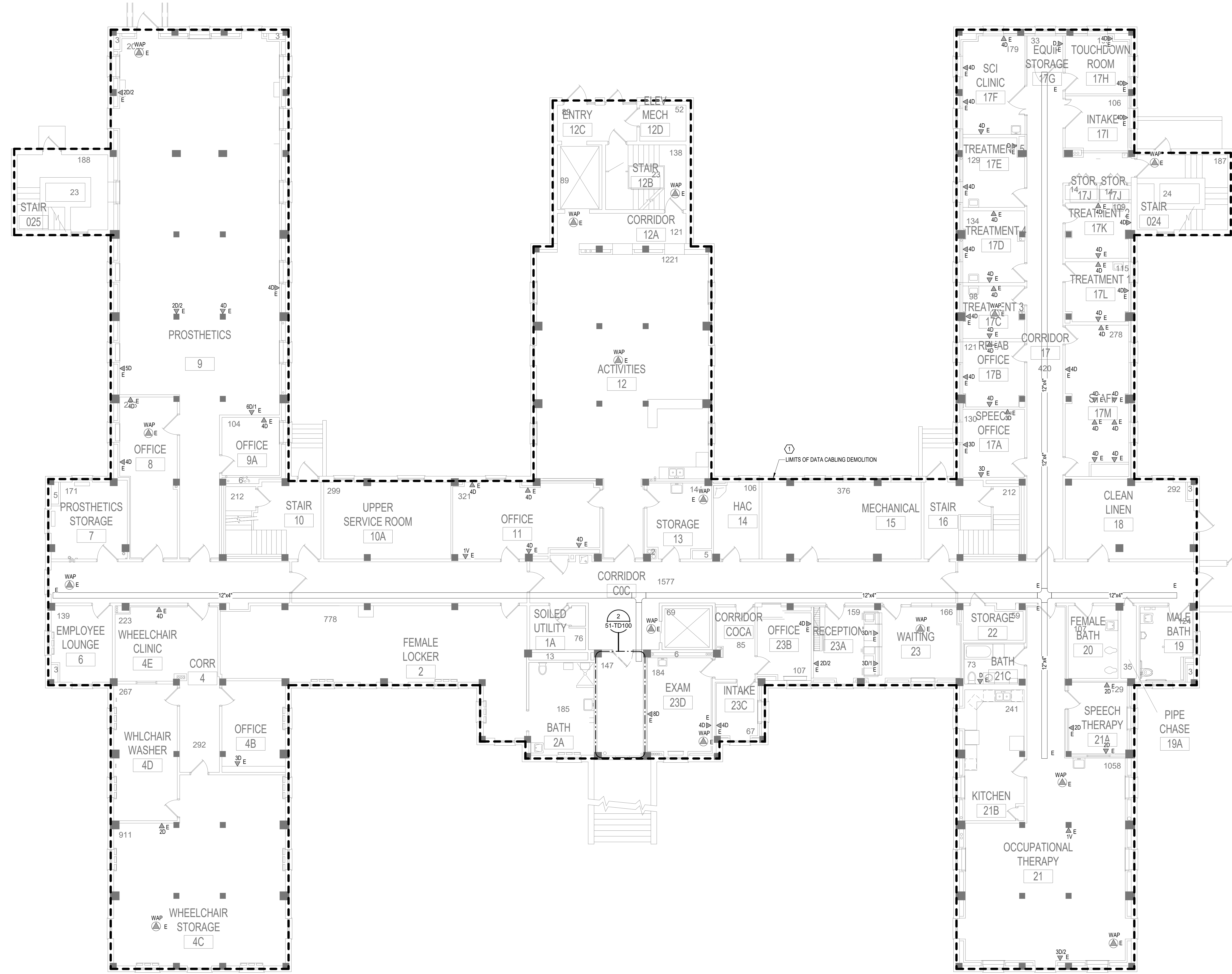
DWG. OF:  

**VA**

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

Veterans Health Administration

St. Cloud VA Health Care System

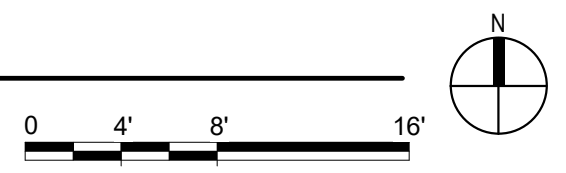


**GENERAL NOTES:**  
 A. REFER TO GENERAL DEMOLITION NOTES ON SHEET T000 FOR ADDITIONAL DEMOLITION SCOPE.

**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 TELECOM DEMO - ENLARGED PLAN - EXIST TR 001  
 1/4" = 1'-0"

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



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**STAMP**

**Bicsi**  
 Nathan Timm  
 BICSI ID # 346555  
 Expires 12-31-24  
 Registered Communications Distributor

**DRAWING TITLE**

BASEMENT FLOOR PLAN - ELECTRICAL DEMOLITION

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

**DATE** 03/30/2022  
**PLOT SCALE**  
**PROJECT NO.** 656-21-235  
**DRAWN BY** SSK  
**CHECKED BY** KSB  
**DATE** 03/30/2022  
**PROJECT NO.** 656-21-235  
**DRAWING NO.** 51-TD100  
**LOCATION** VA MEDICAL CENTER ST. CLOUD, MN 56303  
**FULLY SPRINKLERED**  
 DWG. OF

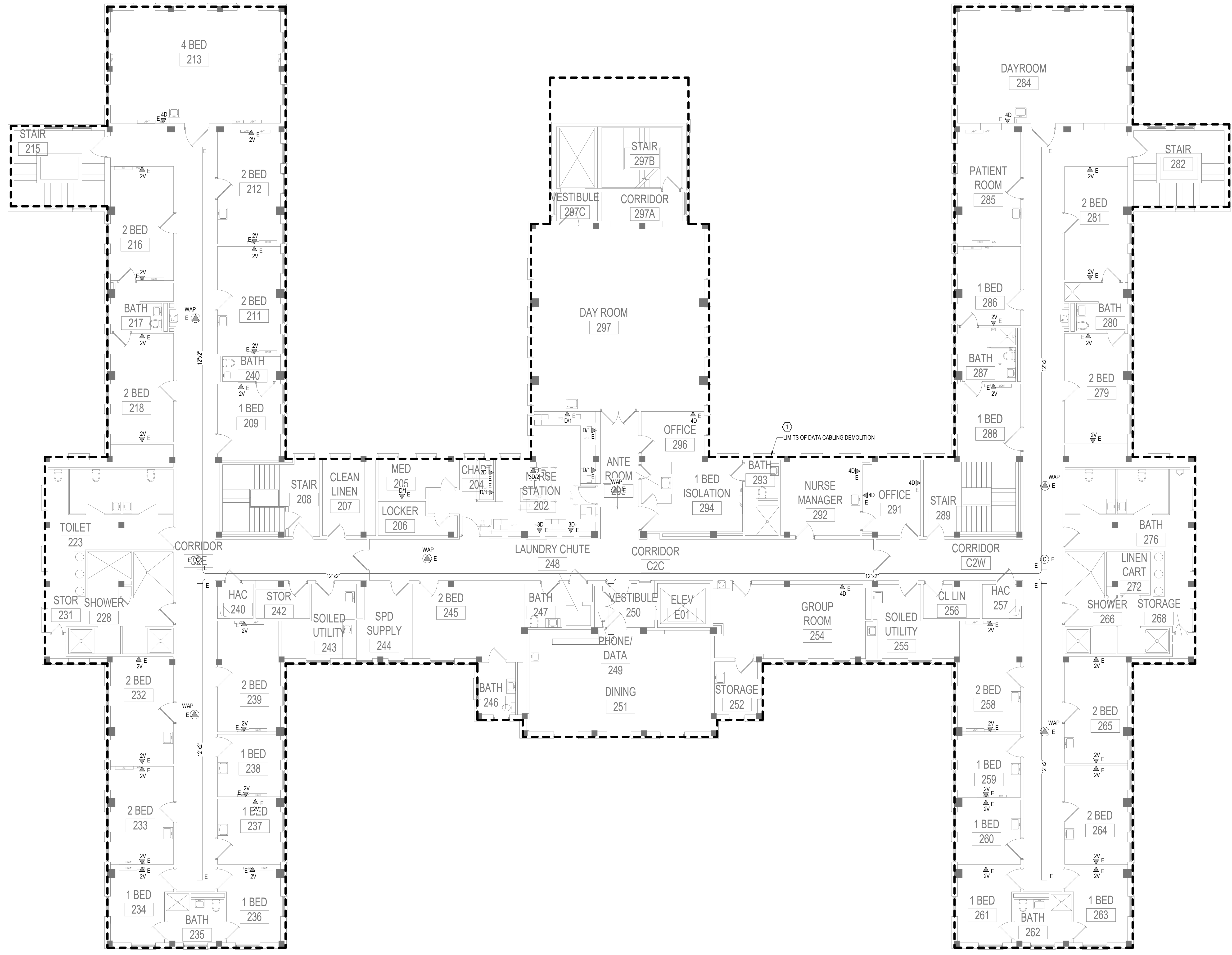
**VA**

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



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



5/11/2022 4:46:00 PM BIM 360://21102.001 - VA St. Cloud EHRM Infrastructure Upgrades/656-235.B51.T\_R21.rvt

No.	REVISION	DATE

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Anderson Engineering of Minnesota, LLC | Proj # 16305

**STAMP**

**Bicsi**  
Nathan Timm  
BICS ID # 346555  
Expires 12-31-24  
REGISTERED COMMUNICATIONS DISTRIBUTION

**DRAWING TITLE**

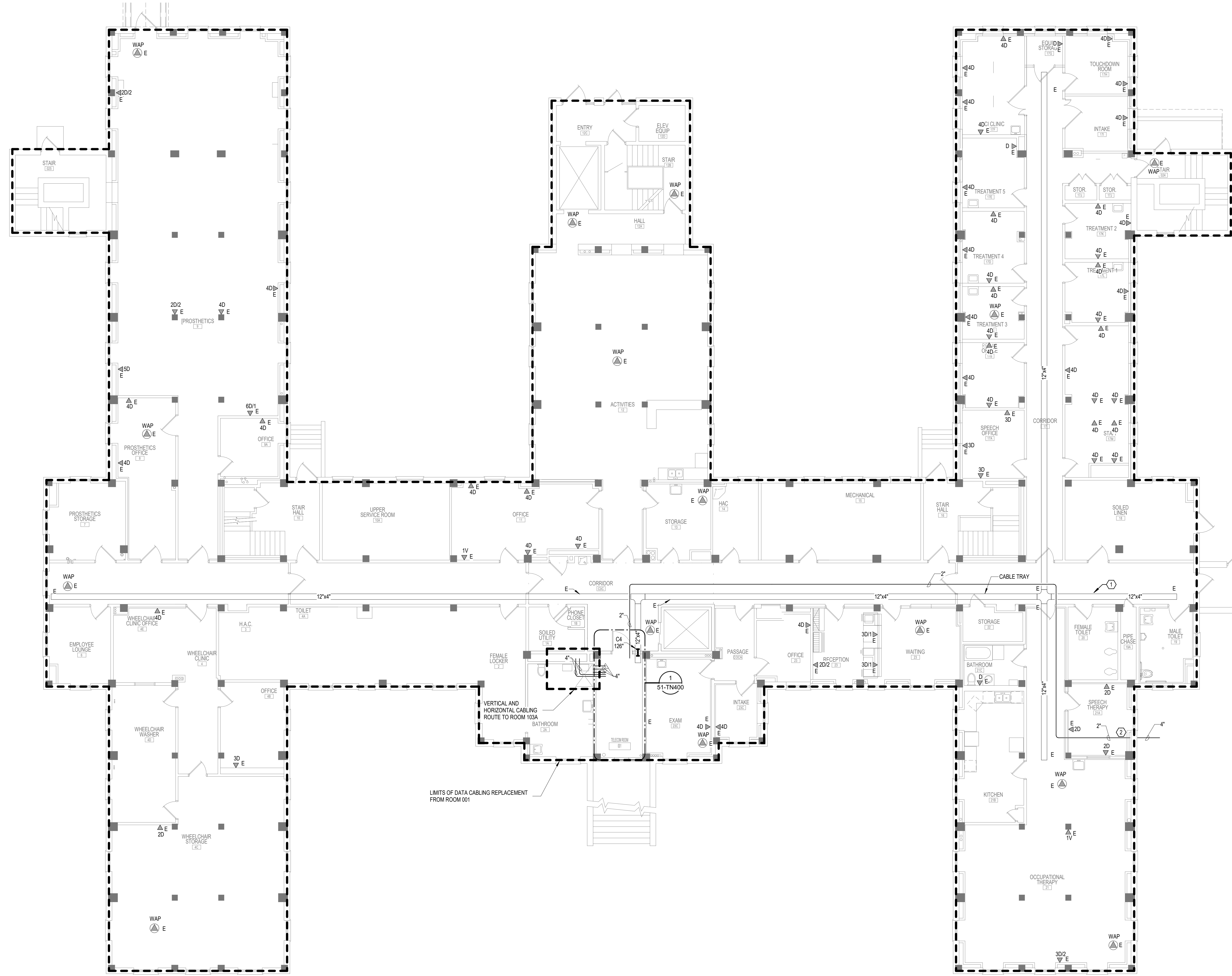
**SECOND FLOOR PLAN - ELECTRICAL DEMOLITION**

<b>PROJECT FILE</b>	<b>DATE</b>
<b>EHRM INFRASTRUCTURE UPGRADES</b>	03/30/2022
<b>BUILDING No.</b>	<b>PROJECT No.</b>
51	656-21-235
<b>DESIGNED BY</b>	<b>DRAWN BY</b>
KSB	SSK
<b>LOCATION</b>	<b>DATE</b>
VA MEDICAL CENTER ST. CLOUD, MN 56303	51-TD120

**VA**

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

5/11/2022 4:48:01 PM  
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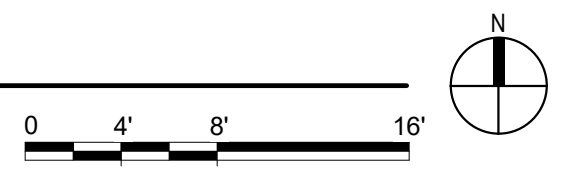


**GENERAL NOTES:**  
A. REFER TO GENERAL NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

**SHEET NOTES:**

- 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.
- 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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BICS1 ID # 346555  
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Nathan M. Timm

**DRAWING TITLE**

BASEMENT FLOOR PLAN - TELECOMMUNICATIONS

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

**DATE**  
03/30/2022

**PLOT SCALE**  
AS SHOWN

**PROJECT NO.**  
656-21-235

**DRAWING NO.**  
51-TN100

**BUILDING NO.**  
51

**CHECKED BY**  
KSB

**DRAWN BY**  
SSK

**LOCATION**  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

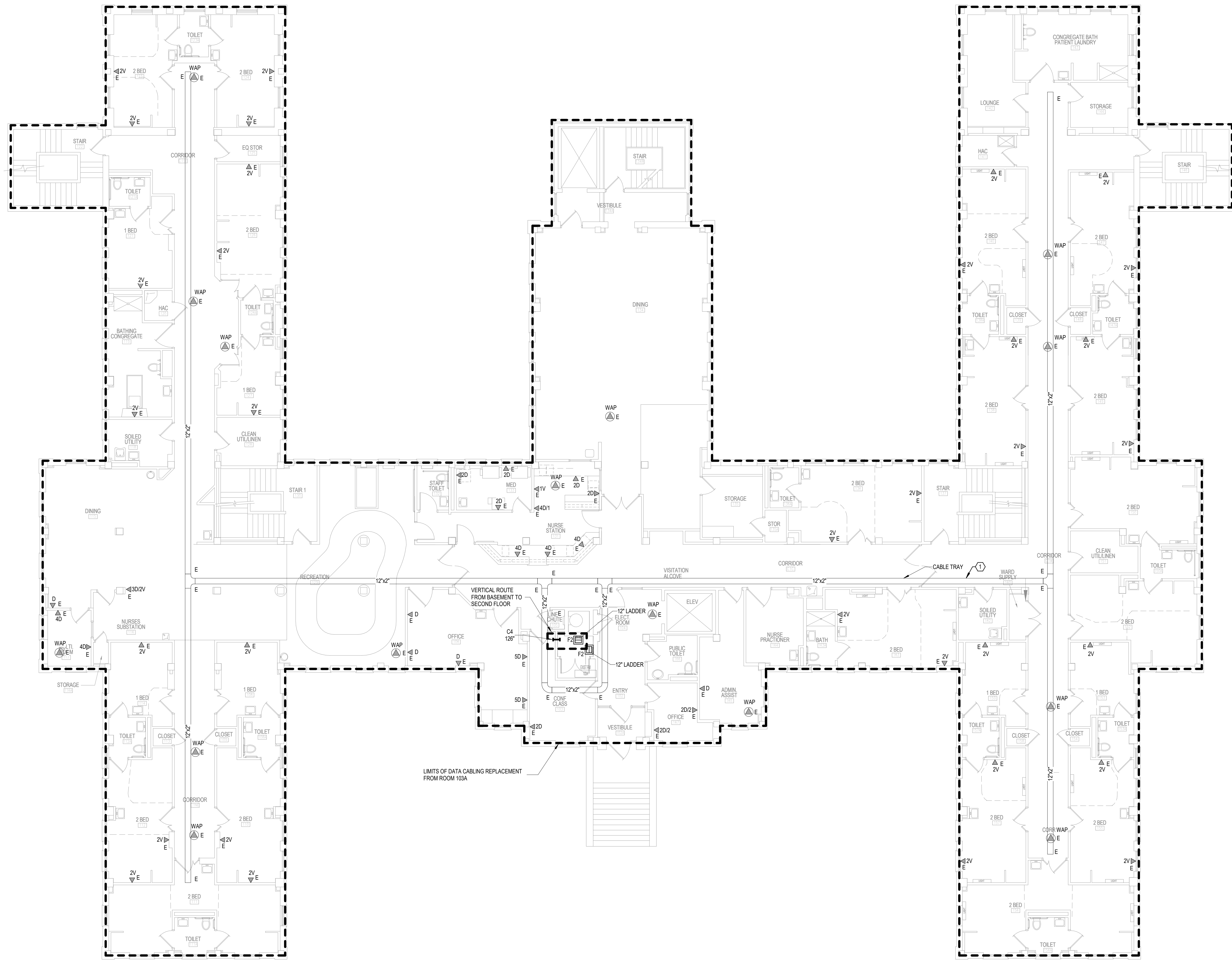
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**DWG. OF**

**VA**

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

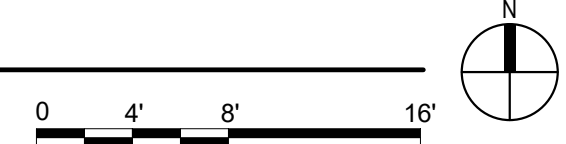
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**GENERAL NOTES:**  
A. REFER TO GENERAL NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

**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.

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



No.	REVISION	DATE

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**Bicsi**  
Nathan Timm  
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**  
AS SHOWN

**PROJECT NO.**  
656-21-235

**DRAWING NO.**  
51-TN110

**BUILDING NO.**  
51

**CHECKED BY**  
KSB

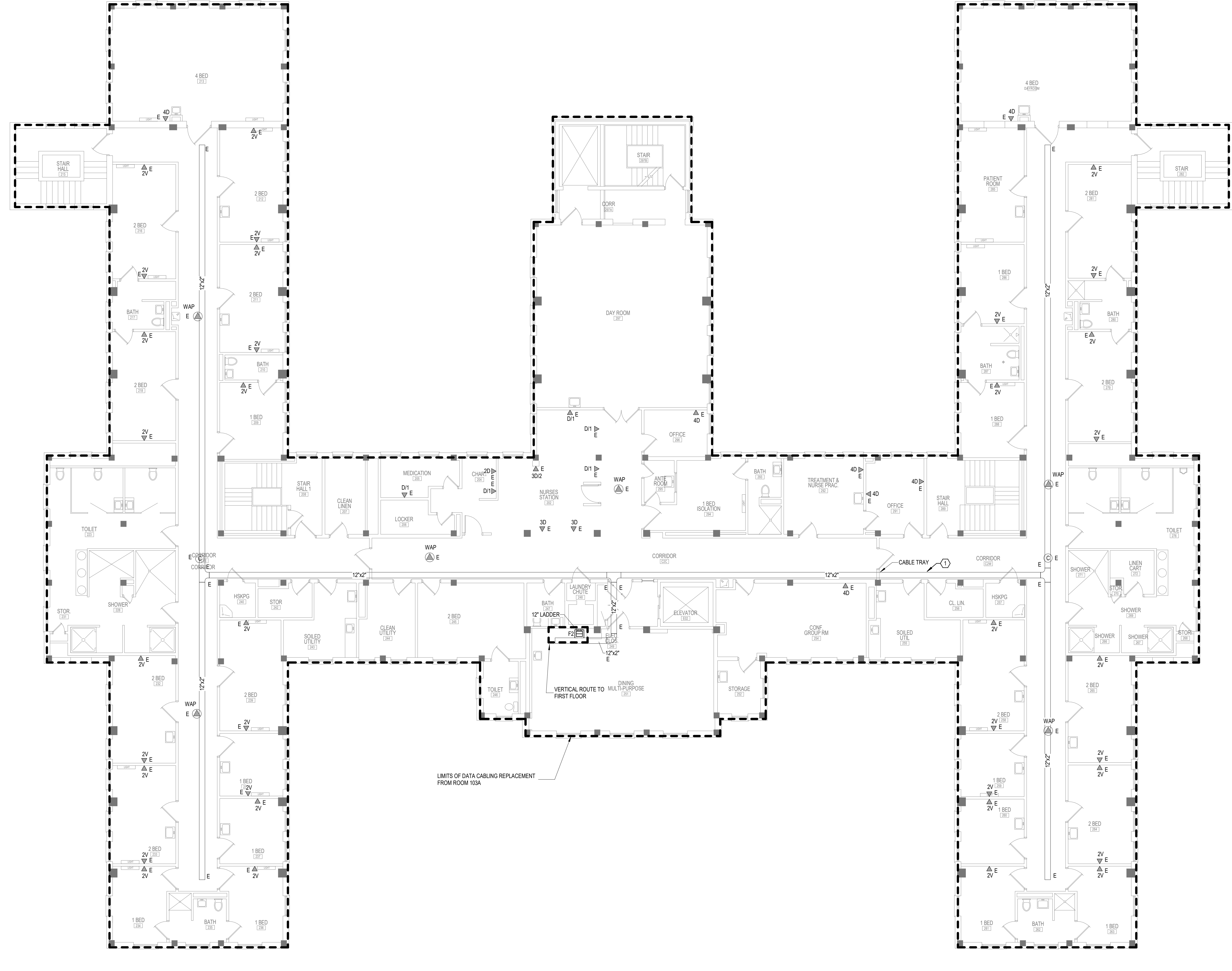
**DRAWN BY**  
SSK

**LOCATION**  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

**FULLY SPRINKLERED**

**DWG. OF**

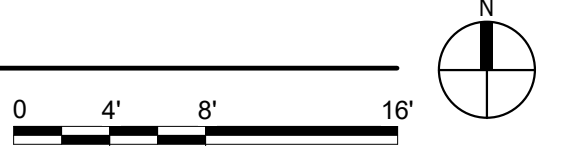
**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
St. Cloud VA Health Care System



**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.

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



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No.	REVISION	DATE

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

**DRAWING TITLE**

SECOND FLOOR PLAN - TELECOMMUNICATIONS

PROJECT FILE	DATE
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
PLOT SCALE	
PROJECT NO.	656-21-235
DRAWN BY	SSK
CHECKED BY	KSB
DRAWING NO.	51-TN120
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

A

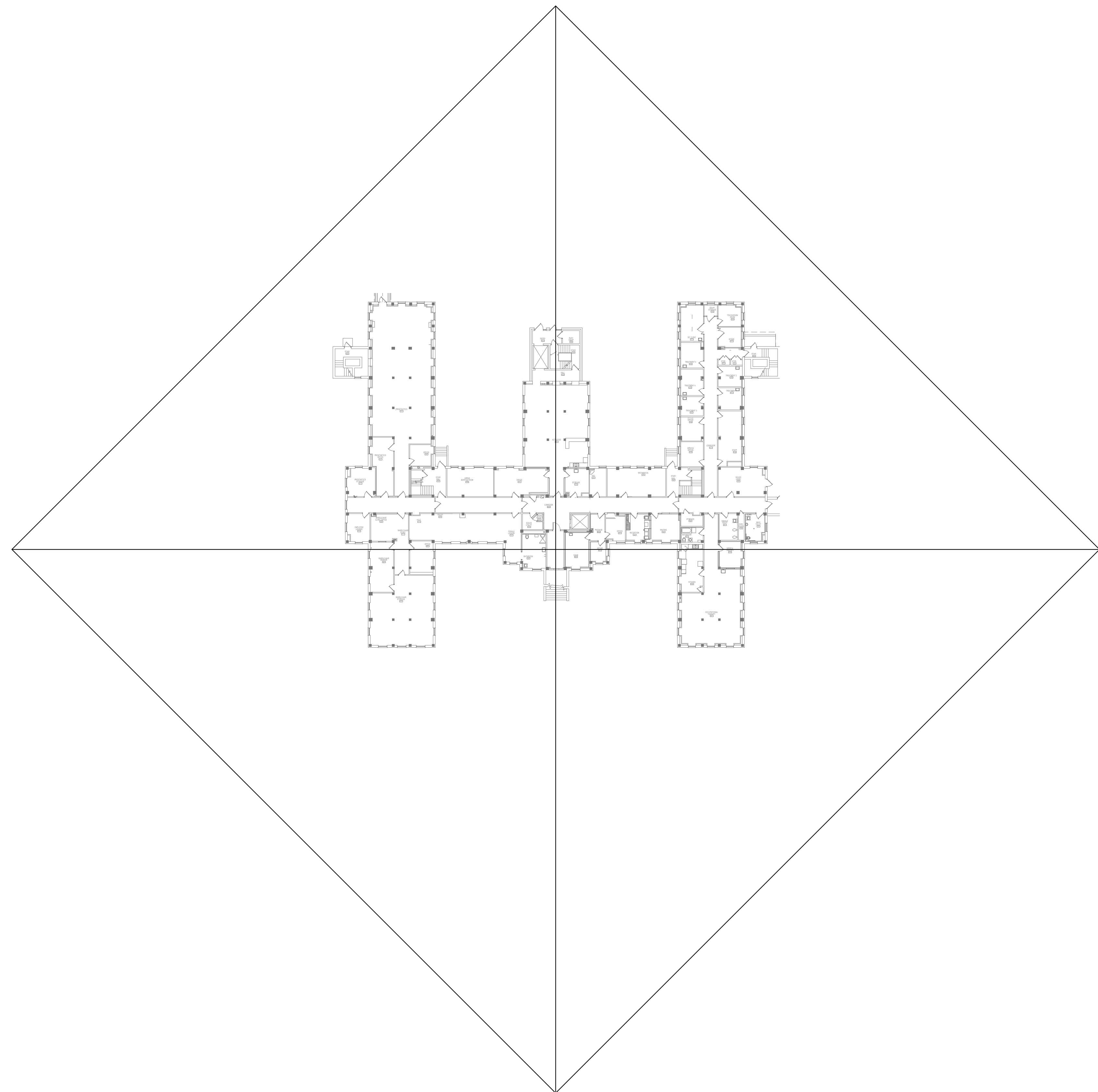
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C

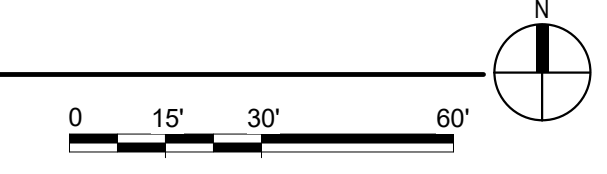
D

E

F



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



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No.	REVISION	DATE

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

DRAWING TITLE

BASEMENT FLOOR PLAN - TELECOM - CABLE DISTANCE

PROJECT FILE

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022

PLOT SCALE

PROJECT NO: 656-21-235

BUILDING No: 51

CHECKED BY: KSB

DRAWN BY: SSK

DRAWING NO: 51-TN200

LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303

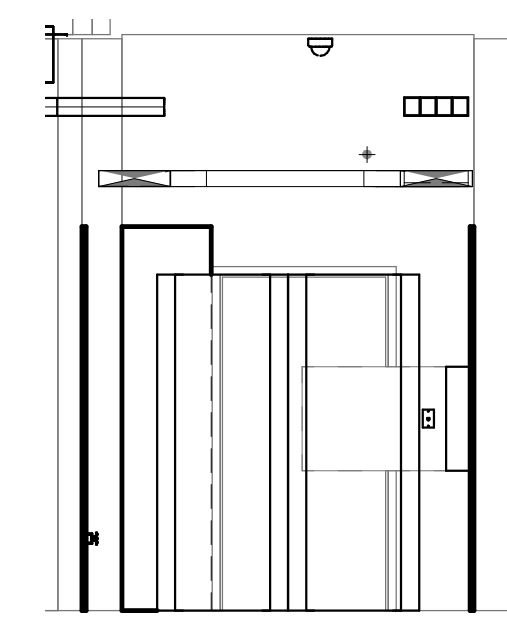
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DWG. OF

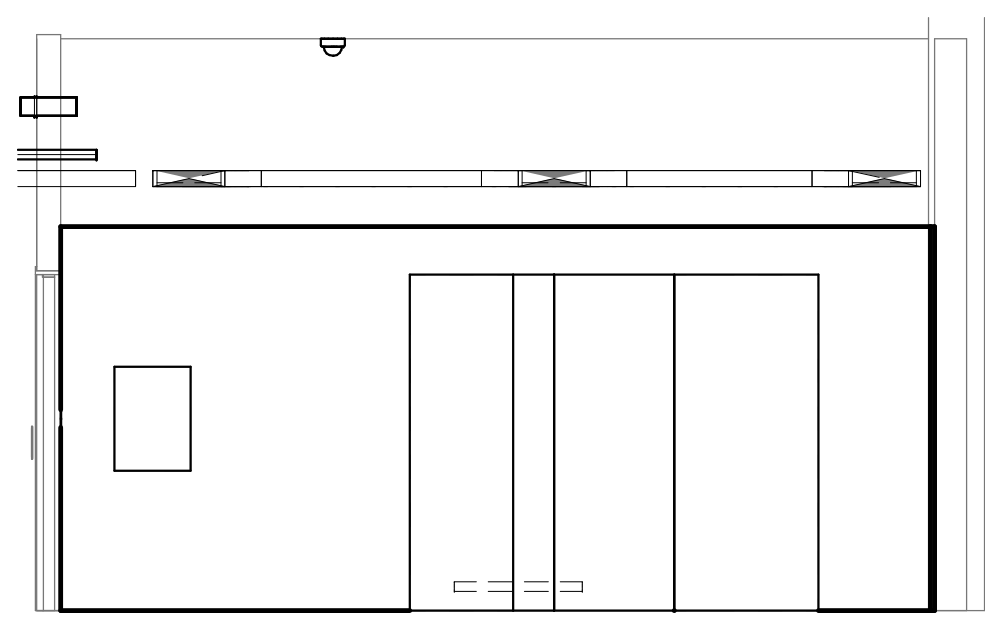



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Veterans Health Administration  
St. Cloud VA Health Care System

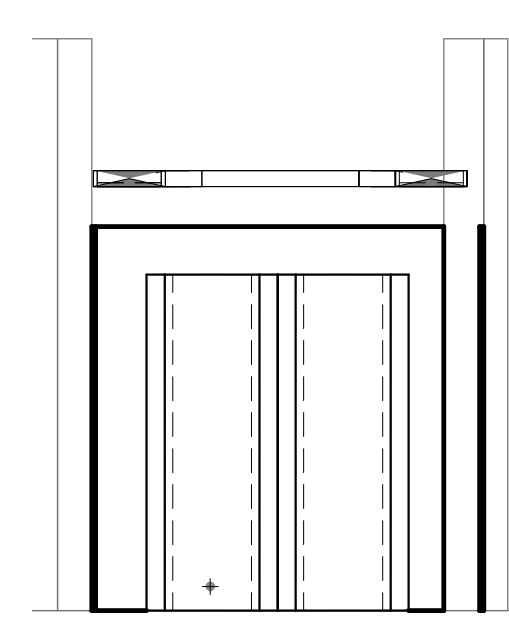
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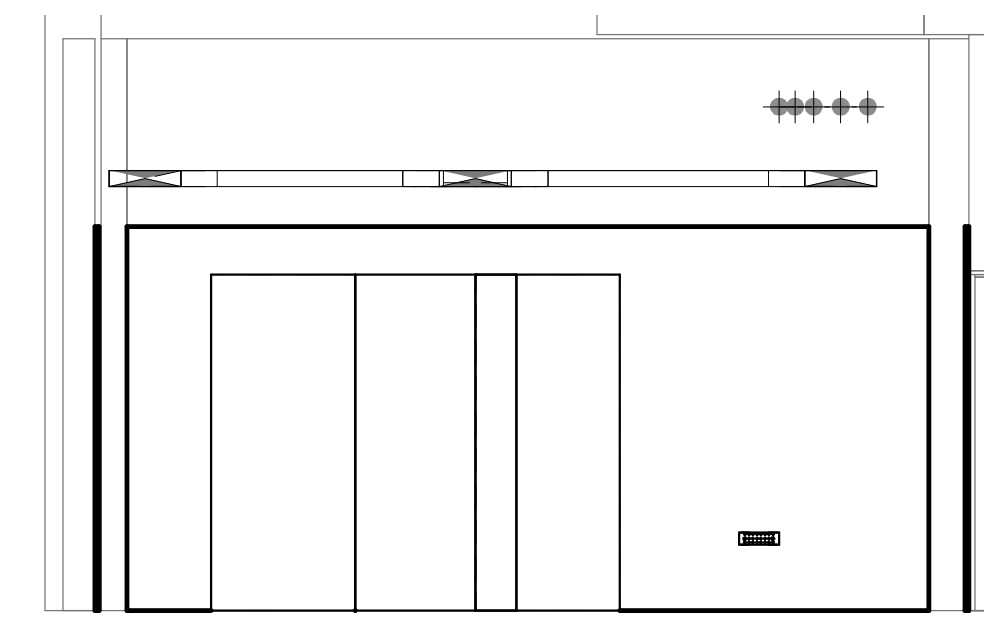
2 1-a  
1/4" = 1'-0"



3 1-b  
1/4" = 1'-0"



4 1-c  
1/4" = 1'-0"



5 1-d  
1/4" = 1'-0"

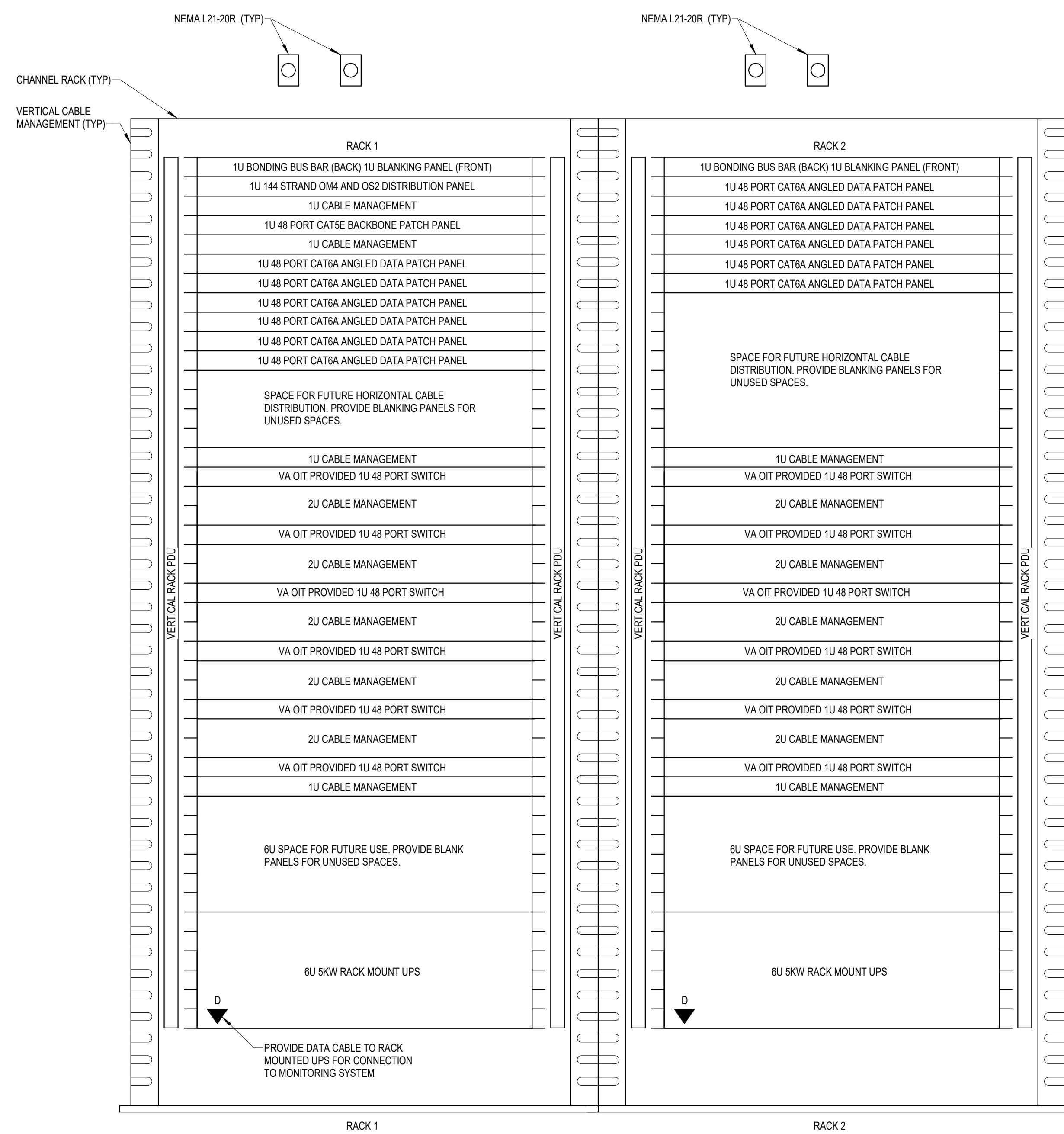
**GENERAL NOTES:**  
A. REFER TO GENERAL NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

**SHEET NOTES:**  
1. IF NO ACCESS CONTROL PANEL IS PRESENT, PROVIDE A NEW ACCESS CONTROL PANEL TO BE INSTALLED IN THE TELECOM ROOM. THE CARD READER AND KEYPAD FOR THIS ROOM TO BE WIRED TO THE NEW ACCESS CONTROL PANEL. EXISTING CARD READERS AND KEYPADS WILL BE MOVED TO THE NEW CONTROL PANEL UNDER A DIFFERENT PROJECT.

**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 001  
EXISTING CABLE COUNT  
DATA (CAT6): 0  
DATA (CAT5e): 0  
DATA (CAT3): 0  
DATA (CAT3): 0  
  
CABLE RELOCATION COUNT  
DATA (CAT6): 0  
DATA (CAT5e): 398 FROM ROOM 103A  
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): 398  
DATA (CAT3): 0

B



- 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 001  
NOT TO SCALE

A

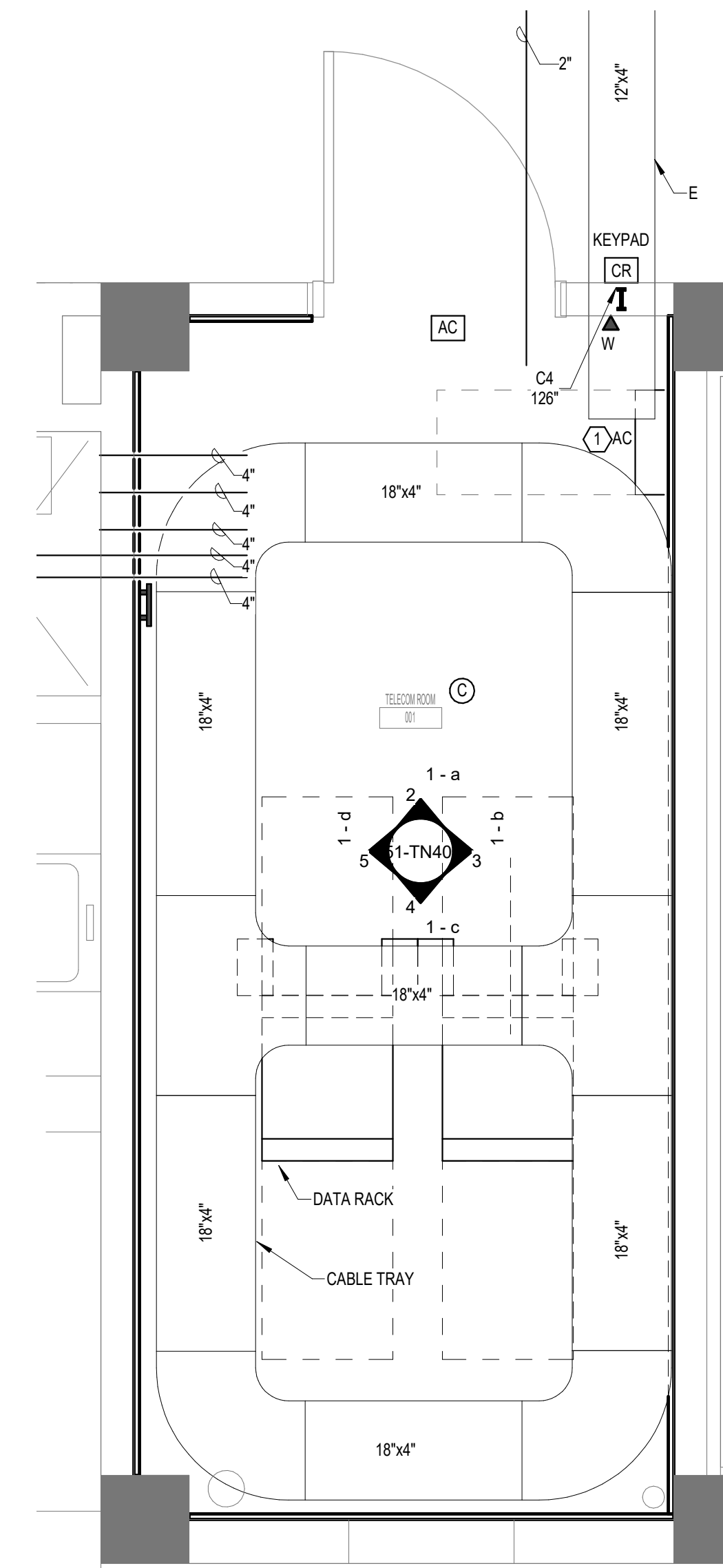
B

C

D

E

F



1 ENLARGED PLAN - TR 001 - TELECOM - CABLE TRAY AND DATA  
1/2" = 1'-0"

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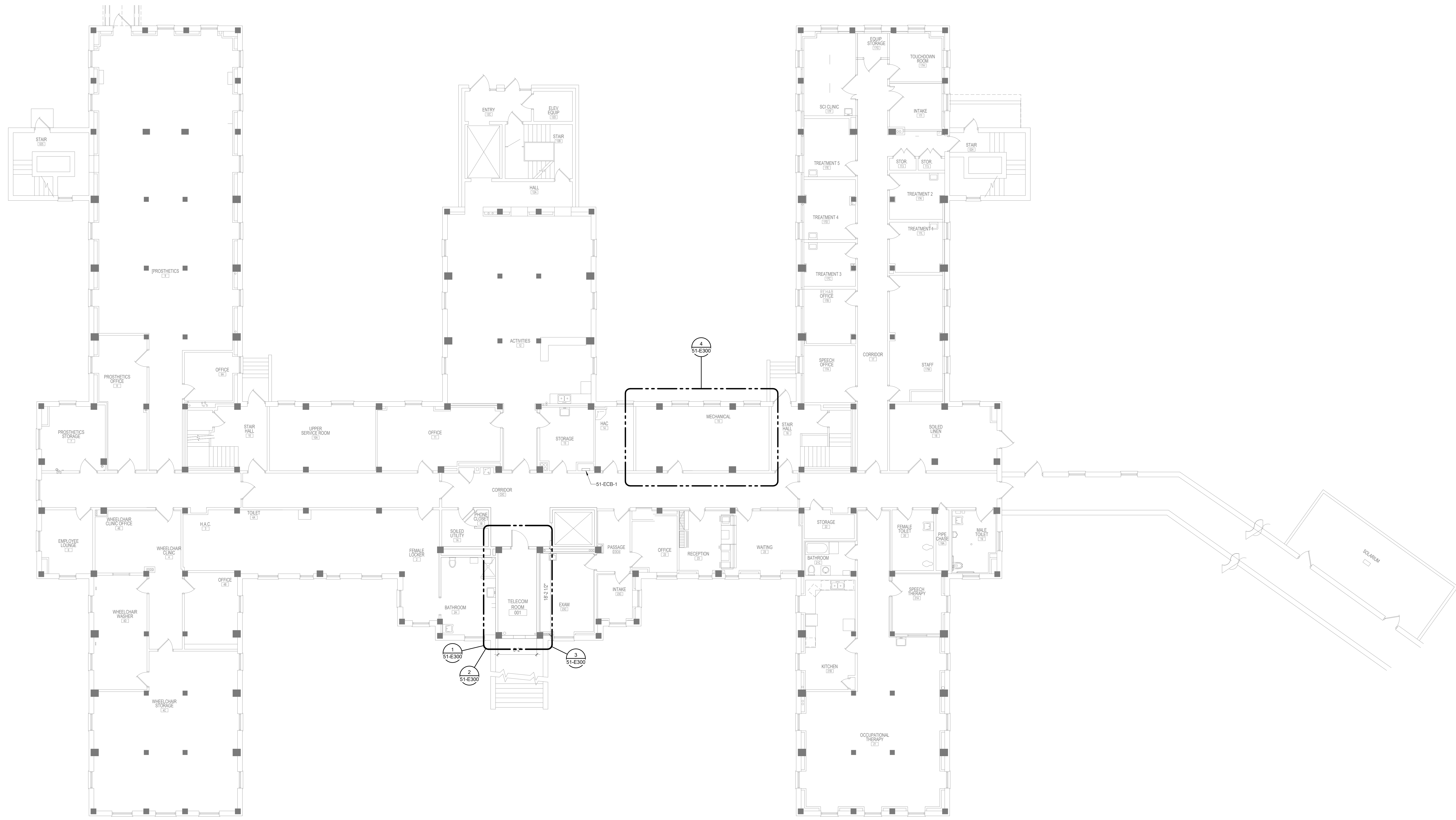
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Nathan Timm  
BICS ID # 346555  
Expires 12-31-24  
Nathan M. Timm

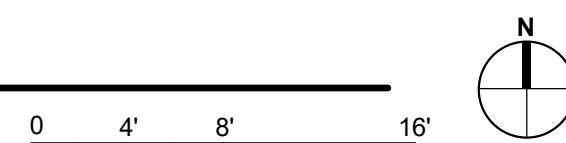
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ENLARGED PLANS - TELECOMMUNICATIONS

**PROJECT FILE**  
EHRM INFRASTRUCTURE UPGRADES  
DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
DRAWN BY: SSK  
CHECKED BY: KSB  
BUILDING NO: 51  
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 BASEMENT FLOOR PLAN - ELECTRICAL  
51-E100 SCALE: 1/8" = 1'-0"



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Name: *[Signature]*  
Date: 03/30/2022  
License Number: 404 53095

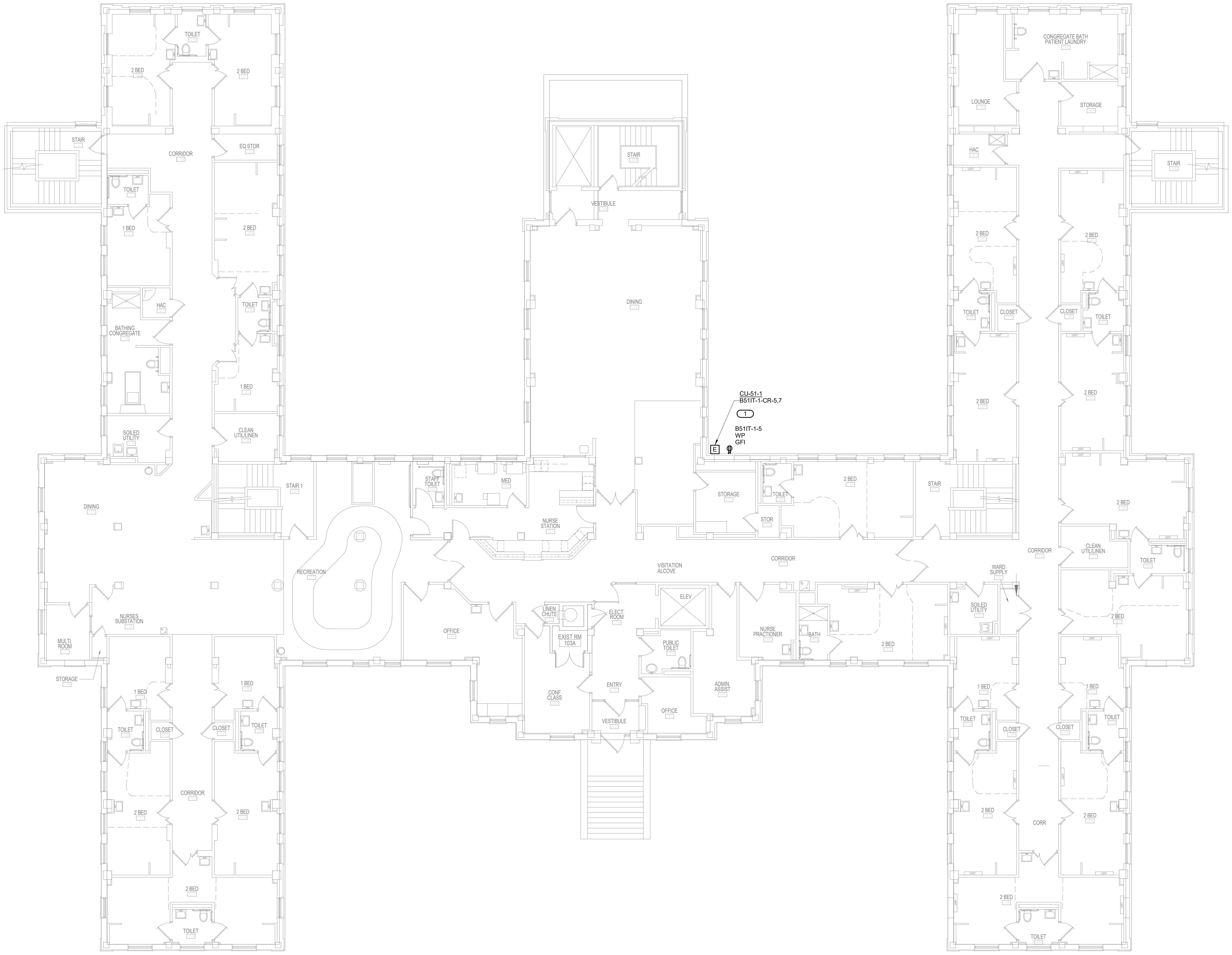
**DRAWING TITLE**

BASEMENT FLOOR PLAN - ELECTRICAL

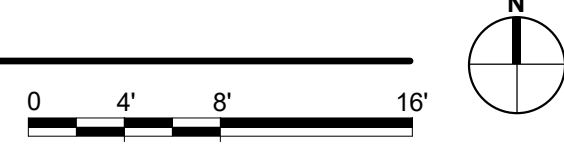
<b>PROJECT FILE</b>	<b>DATE</b>
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
<b>PLOT SCALE</b>	
	656-21-235
<b>BUILDING No.</b>	<b>CHECKED BY</b>
50	TBD
<b>DRAWN</b>	<b>DRAWING No.</b>
GJL	51-E100
<b>LOCATION</b>	<b>FULLY SPRINKLERED</b>
VA MEDICAL CENTER ST. CLOUD, MN 56303	DWG. OF

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

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



**1** FIRST FLOOR PLAN - ELECTRICAL  
 51-E101 SCALE: 1/8" = 1'-0"



3/28/2022 1:38:49 PM BIM 360://21102.001 - VA St. Cloud EHRM Infrastructure Upgrades/656-235-B51-E\_RZ1.rvt

No.	REVISION	DATE
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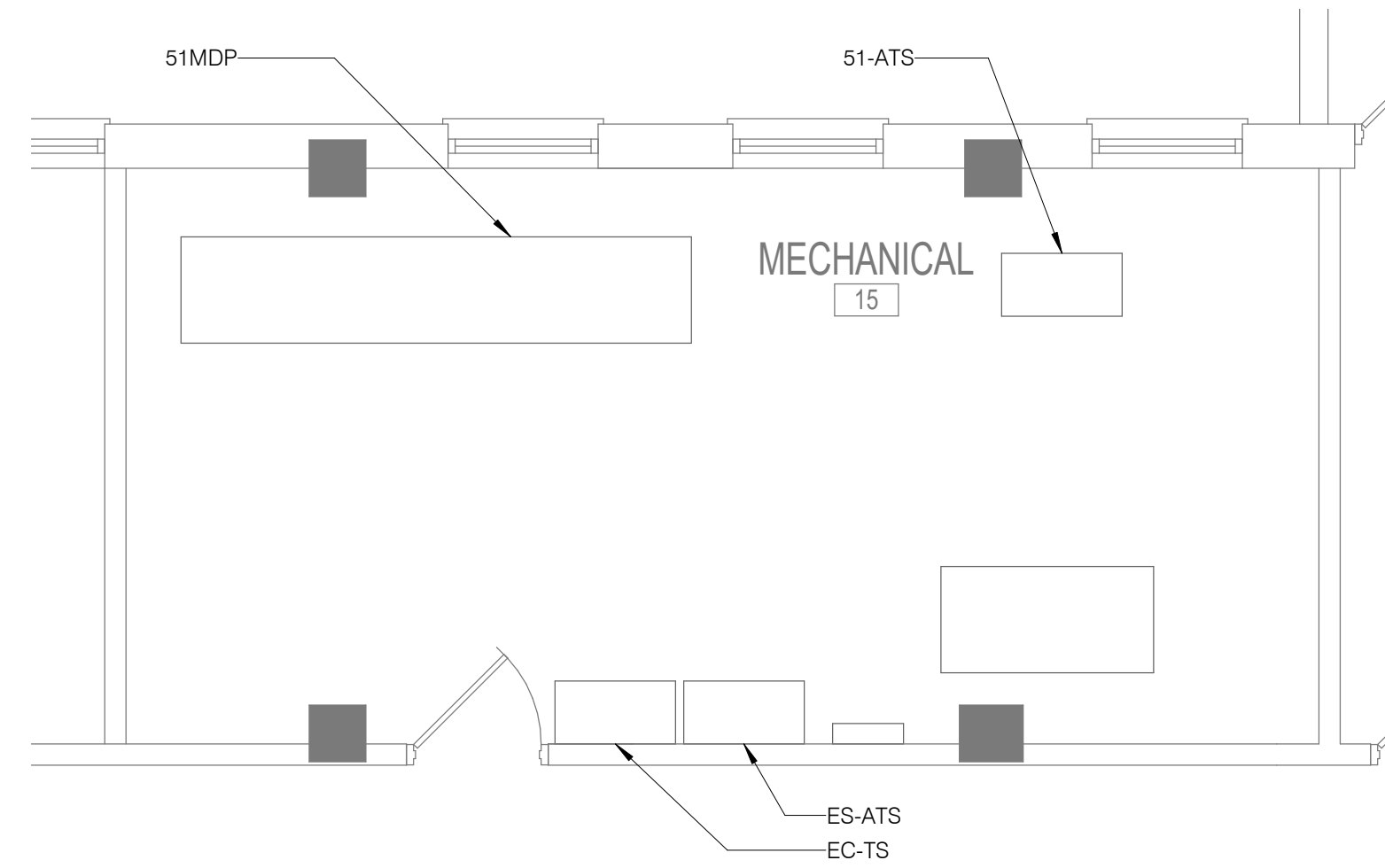
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Name: *[Signature]*  
 Date: 03/30/2022  
 License Number: 496 53095

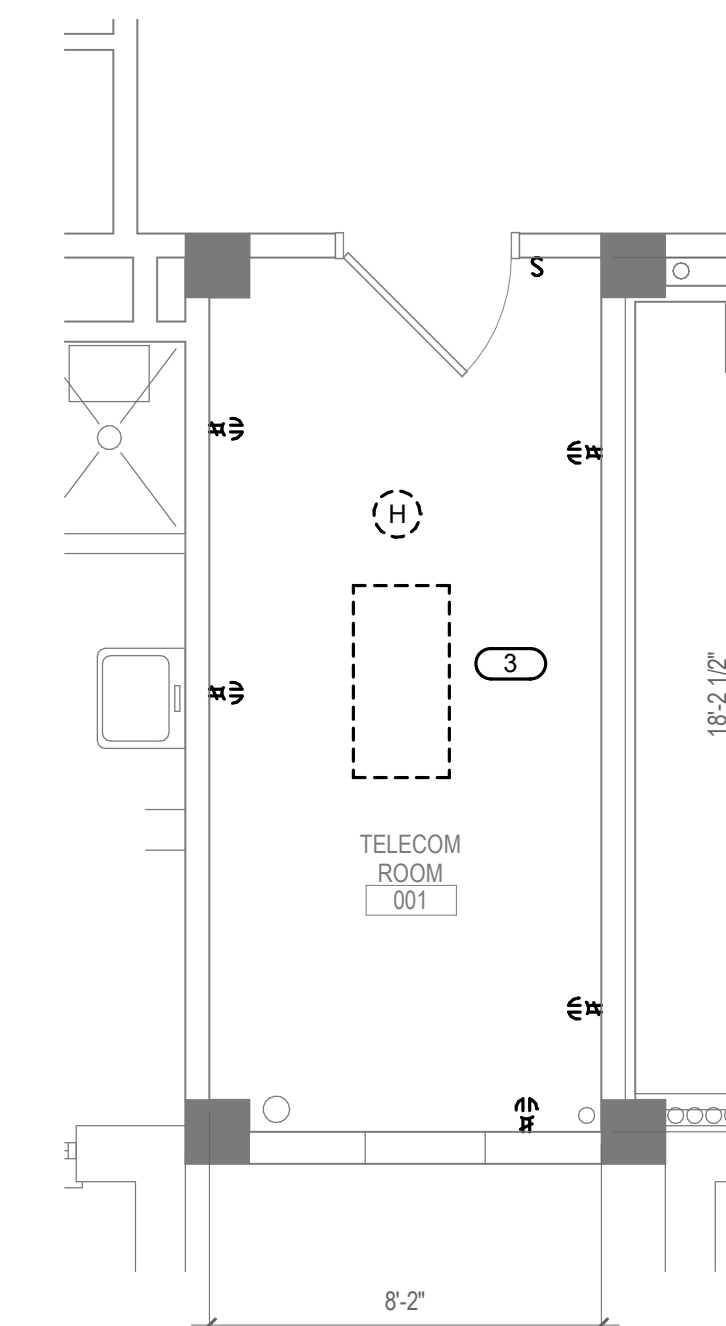
**DRAWING TITLE**  
 FIRST FLOOR PLAN - ELECTRICAL

<b>PROJECT FILE</b> EHRM INFRASTRUCTURE UPGRADES	<b>DATE</b> 03/30/2022
<b>BUILDING No</b> 50	<b>CHECKED BY</b> TBD
<b>DRAWN BY</b> GJL	<b>DRAWING No</b> 51-E101
<b>LOCATION</b> VA MEDICAL CENTER ST. CLOUD, MN 56303	<b>FULLY SPRINKLERED</b> DWS OF

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

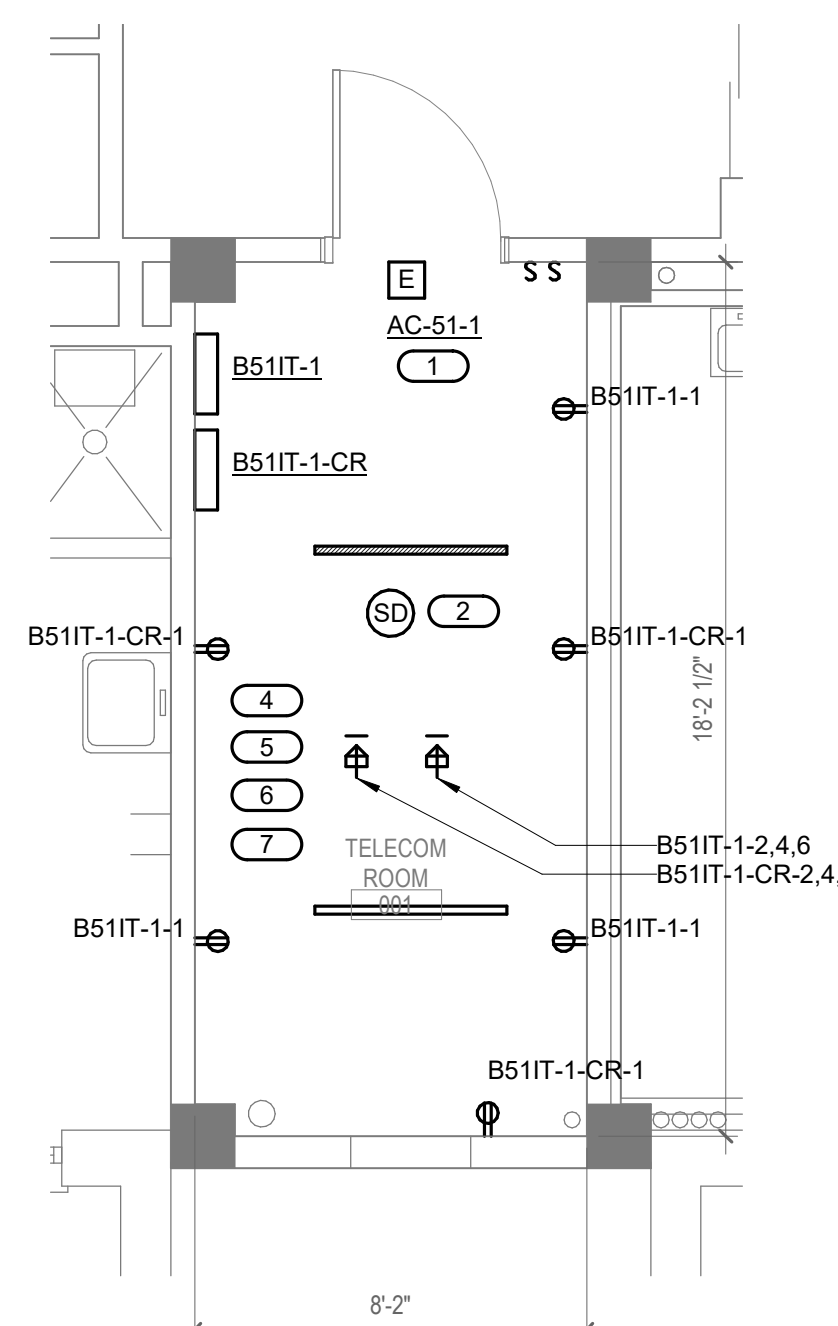


**4 BASEMENT FLOOR PLAN ENLARGED - ELECTRICAL**  
1/4" = 1'-0"

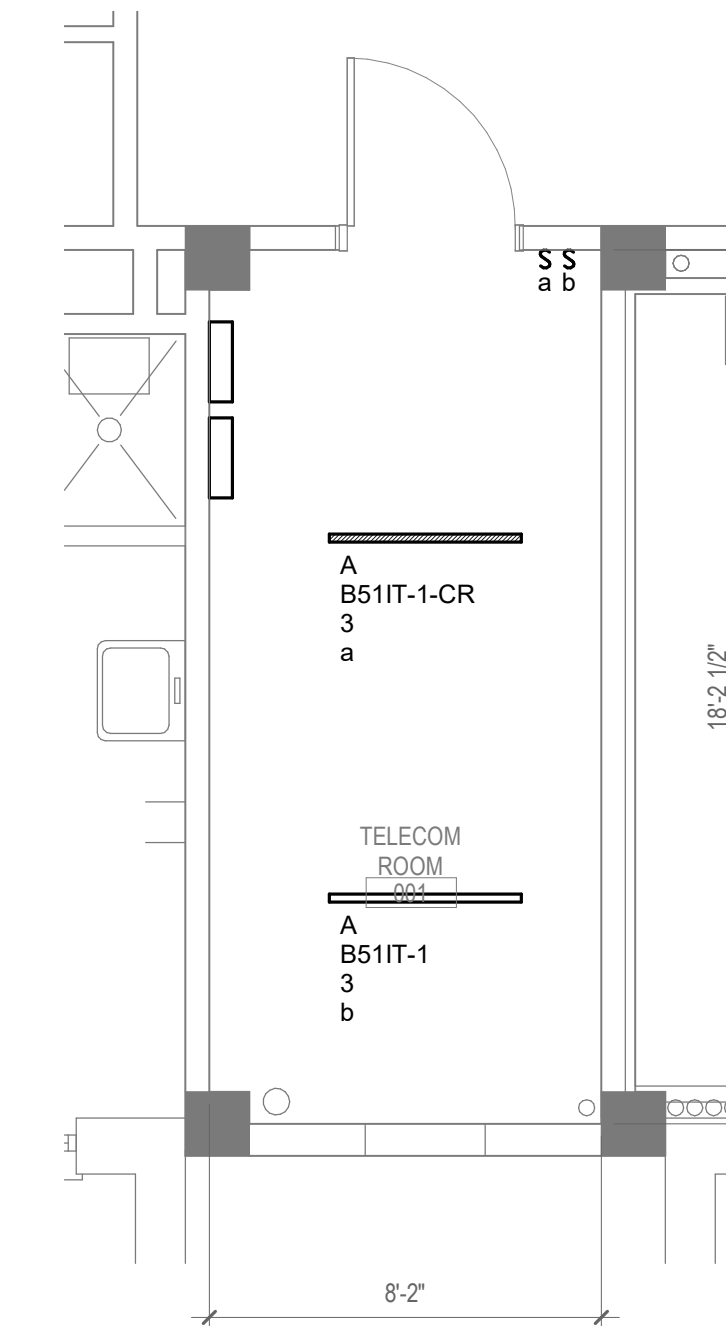


**1 TELECOM ROOM - ELECTRICAL DEMOLITION**  
1/4" = 1'-0"

- KEYNOTES: #**
1. INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT. COORDINATE EXACT LOCATION WITH M.C.
  2. CONNECT SMOKE DETECTOR TO NEAREST EXISTING SL.
  3. DISCONNECT AND REMOVE EXISTING LIGHTS AND RECEPTACLES IN ROOM. MAINTAIN CIRCUIT CONTINUITY TO ADJOINING ROOMS. COORDINATE FINAL LOCATION OF RECEPTACLE L21-30R WITH TELECOM CONTRACTOR. PROVIDE 3/4" C-110, 1#12 GND TO PANEL FOR EACH RECEPTACLE.
  4. PROVIDE EATON BLADEUPS, 5KW, 120/208V, 3-PHASE 4-WIRE RACK MOUNTED UPS FOR EACH RACK TOWER.
  5. PROVIDE APC/AP8861 RPDU RACK PDU 2G WITH L21-20P CORD, (120/208V, 3-PHASE, 20A, ZERO U, 5.7 KW, 208V, (3) C13 (6) C19 (2) 5-20R OUTLETS. PROVIDE TWO PER RACK, MOUNTED PER MANUFACTURER'S REQUIREMENTS.
  6. 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. ZONITRZFD5-208V-30A-L21-4L21-20R-CR #



**3 TELECOM ROOM - POWER & SYSTEM**  
1/4" = 1'-0"



**2 TELECOM ROOM - LIGHTING**  
1/4" = 1'-0"

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	DATE

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Name: *[Signature]*  
Date: 03/30/2022  
License Number: MN 52095

**DRAWING TITLE**

ENLARGED PLANS - ELECTRICAL

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE: 1/4" = 1'-0"  
PROJECT NO: 656-21-235  
BUILDING NO: 50  
CHECKED BY: TBD  
DRAWN BY: GJL  
DRAWING NO: 51-E300

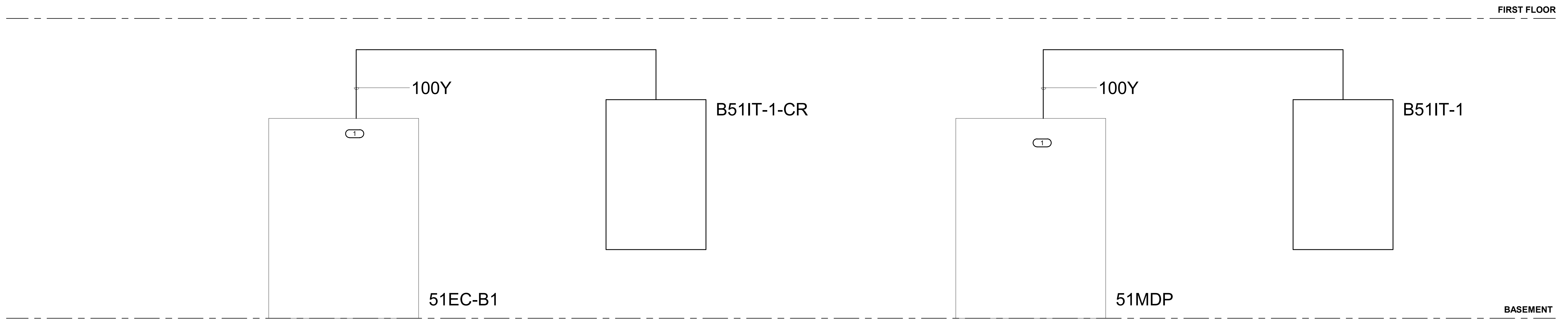
**VA**

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

Veterans Health Administration  
St. Cloud VA Health Care System

**KEYNOTES:** (#)

1. PROVIDE NEW 100A/3P CIRCUIT BREAKERS IN EXISTING PANEL TO MATCH EXISTING TYPE AND AIC RATING.



**1 PARTIAL POWER RISER**  
12" = 1'-0"

3/28/2022 1:39:51 PM  
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No.	REVISION	DATE
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Name: *[Signature]*  
Date: 03/30/2022  
License Number: MN 53095

**DRAWING TITLE**  
ELECTRICAL DIAGRAMS

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
BUILDING No: 50  
CHECKED BY: TBD  
DRAWN BY: G.J.L.  
DRAWING NO: 51-E500

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

A

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**PANEL B51IT-1-CR**

MOUNTING: SURFACE  
ENCLOSURE: NEMA PB 1  
FED FROM: 0 AWP @  
LOCATION: TELECOM ROOM 001

SOLID NEUTRAL  
GROUND BUS

MAIN: 100 A MCB  
VOLTS: 120/208 Wye  
PHASE: 3  
WIRE: 4  
SCCR: 65 kA  
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE			A	B	C	WIRE SIZE			OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
				P	H	N				G	P	H				
	1	TELECOM ROOM RECEPTACLE	20 A	1			0.54	2				3	30 A	L21-30R	2	
	3	TELECOM ROOM LIGHTING	20 A	1				0	2						4	
	5	CU-51-1	20 A	2					0	2					6	
--	7	SPARE	20 A	1	--	--	0	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
			<b>Total Load:</b>			2.54 kVA	2.00 kVA	2.00 kVA								
			<b>Total Amps:</b>			21.17	16.67	16.67								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	0 kVA	0.00%	0 kVA	
Power	6 kVA	100.00%	6 kVA	<b>TOTAL CONNECTED LOAD:</b> 6.54 kVA
Receptacles	0.54 kVA	100.00%	0.54 kVA	<b>TOTAL ESTIMATED DEMAND LOAD:</b> 6.54 kVA
				<b>TOTAL CONNECTED AMPS:</b> 18.15 A
				<b>TOTAL ESTIMATED DEMAND AMPS:</b> 18.2 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:

**PANEL B51IT-1**

MOUNTING: SURFACE  
ENCLOSURE: NEMA PB 1  
FED FROM: 0 AWP @  
LOCATION: TELECOM ROOM 001

SOLID NEUTRAL  
GROUND BUS

MAIN: 100 A MCB  
VOLTS: 120/208 Wye  
PHASE: 3  
WIRE: 4  
SCCR: 65 kA  
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE			A	B	C	WIRE SIZE			OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
				P	H	N				G	P	H				
	1	TELECOM ROOM RECEPTACLE	20 A	1			0.54	2				3	30 A	L21-30R	2	
	3	TELECOM ROOM LIGHTING	20 A	1				0	2						4	
	5	WP GFI RECEPTACLE	20 A	1					0.18	2					6	
--	7	SPARE	20 A	1	--	--	0	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
			<b>Total Load:</b>			2.54 kVA	2.00 kVA	2.18 kVA								
			<b>Total Amps:</b>			21.40	16.67	18.40								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	0 kVA	0.00%	0 kVA	
Power	6 kVA	100.00%	6 kVA	<b>TOTAL CONNECTED LOAD:</b> 6.72 kVA
Receptacles	0.72 kVA	100.00%	0.72 kVA	<b>TOTAL ESTIMATED DEMAND LOAD:</b> 6.72 kVA
				<b>TOTAL CONNECTED AMPS:</b> 18.65 A
				<b>TOTAL ESTIMATED DEMAND AMPS:</b> 18.7 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:

3/28/2022 1:39:52 PM

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Name: *[Signature]*  
Date: 03/30/2022  
License Number: ME 53095

DRAWING TITLE  
**ELECTRICAL SCHEDULES**

PROJECT TITLE  
**EHRM INFRASTRUCTURE UPGRADES**

DATE  
03/30/2022

PLOT SCALE  
AS SHOWN

PROJECT NO.  
656-21-235

BUILDING No.  
50

CHECKED BY  
TBD

DRAWN BY  
GJL

DRAWING NO.  
51-E600

LOCATION  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

FULLY SPRINKLERED

DWG. OF

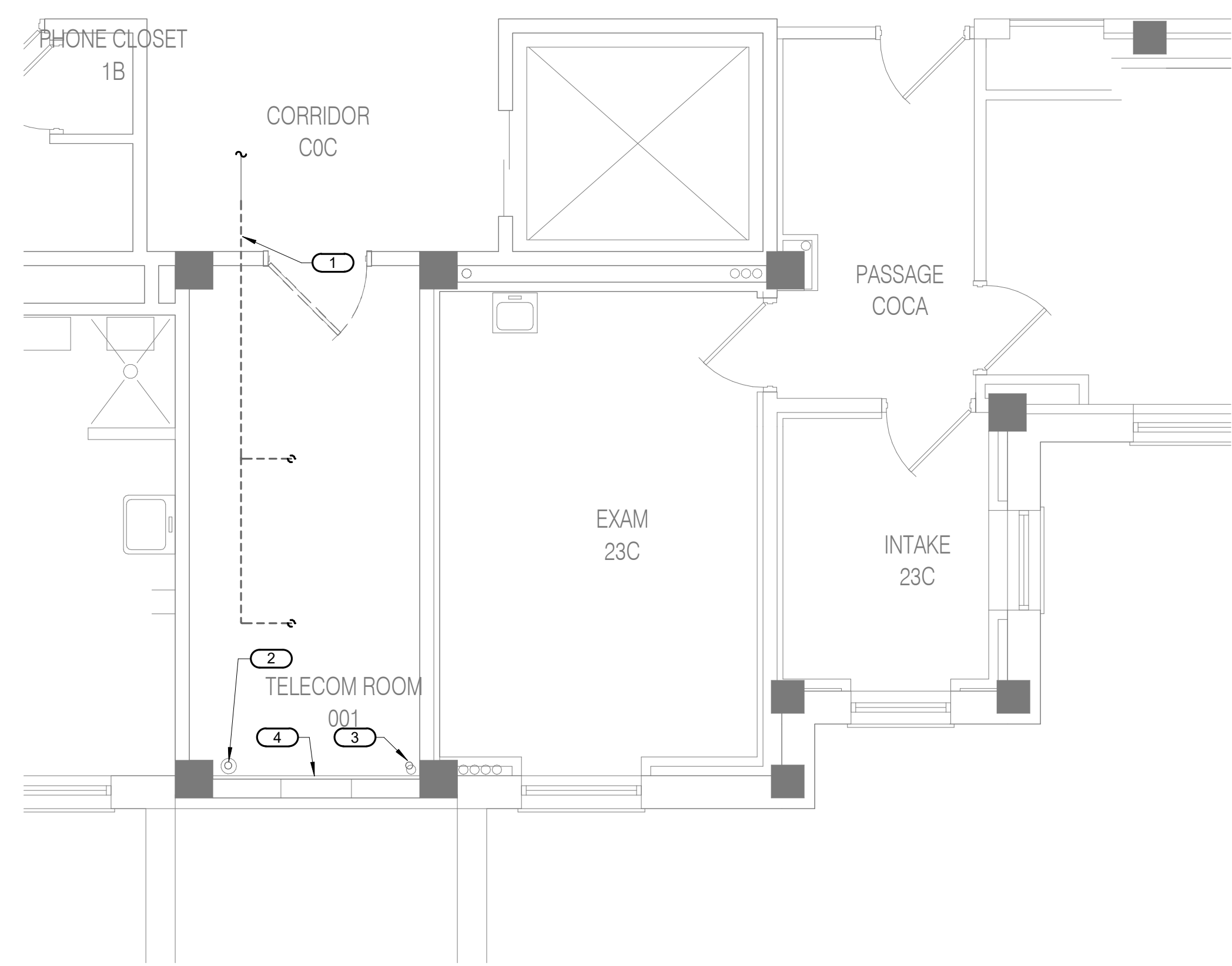
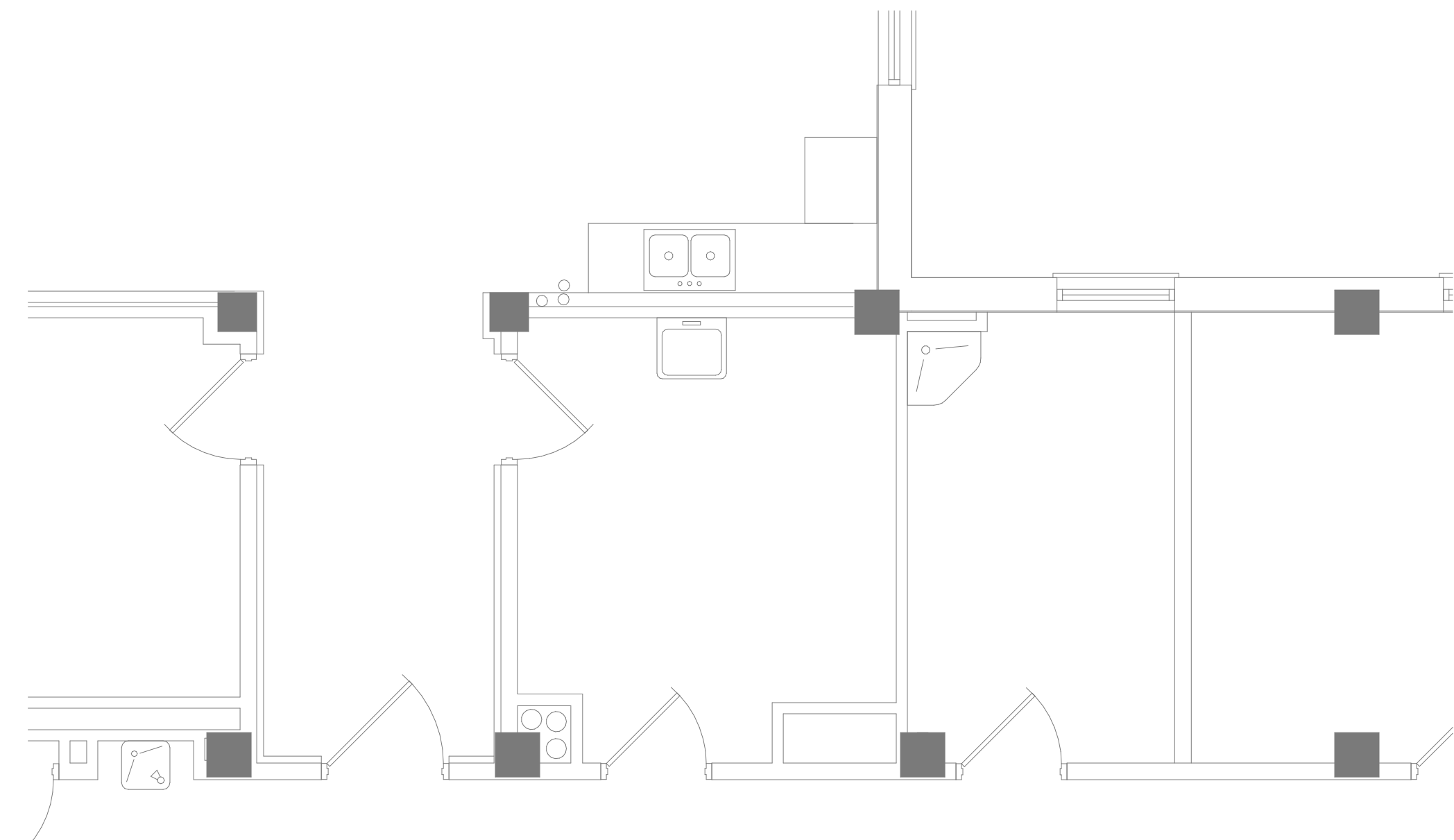
U.S. Department of Veterans Affairs  
Veterans Health Administration  
St. Cloud VA Health Care System

**FIELD VERIFICATION NOTES**

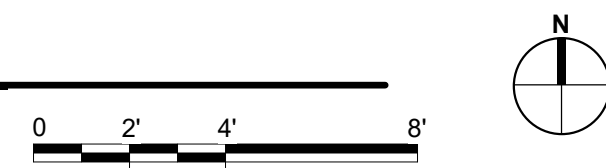
1. THE HVAC CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID. THE FOLLOWING ITEMS SHALL BE VERIFIED:
  - A. EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER EXPLICITLY 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 1/51-M100:**

1. REMOVE AND DISPOSE OF EXISTING FIRE SPRINKLER HEADS AND BRANCH LINE BACK TO LOCATION SHOWN. PREPARE FOR RECONNECTION.
2. EXISTING 2" STEAM RISER TO REMAIN.
3. EXISTING 1" CONDENSATE RISER TO REMAIN.
4. EXISTING CRAWL SPACE ACCESS DOOR.



**1 BASEMENT LEVEL DEMOLITION PLAN - MECHANICAL - TELECOM 001**  
1/4" = 1'-0"



5/12/2022 4:41:08 PM BIM 360://12102.001 - VA St. Cloud EHRM Infrastructure Upgrades/656-235/B51.M\_R21.rvt

No.	REVISION	DATE
100% CD		03/30

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Name: \_\_\_\_\_  
Date: 03/30/2022  
License Number: MNE

**DRAWING TITLE**

BASEMENT DEMOLITION PLAN - MECHANICAL

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
DRAWING NO: 51-M100

BUILDING No: 51  
CHECKED BY: RDL  
DRAWN BY: DJC  
FULLY SPRINKLERED

LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303

**VA**

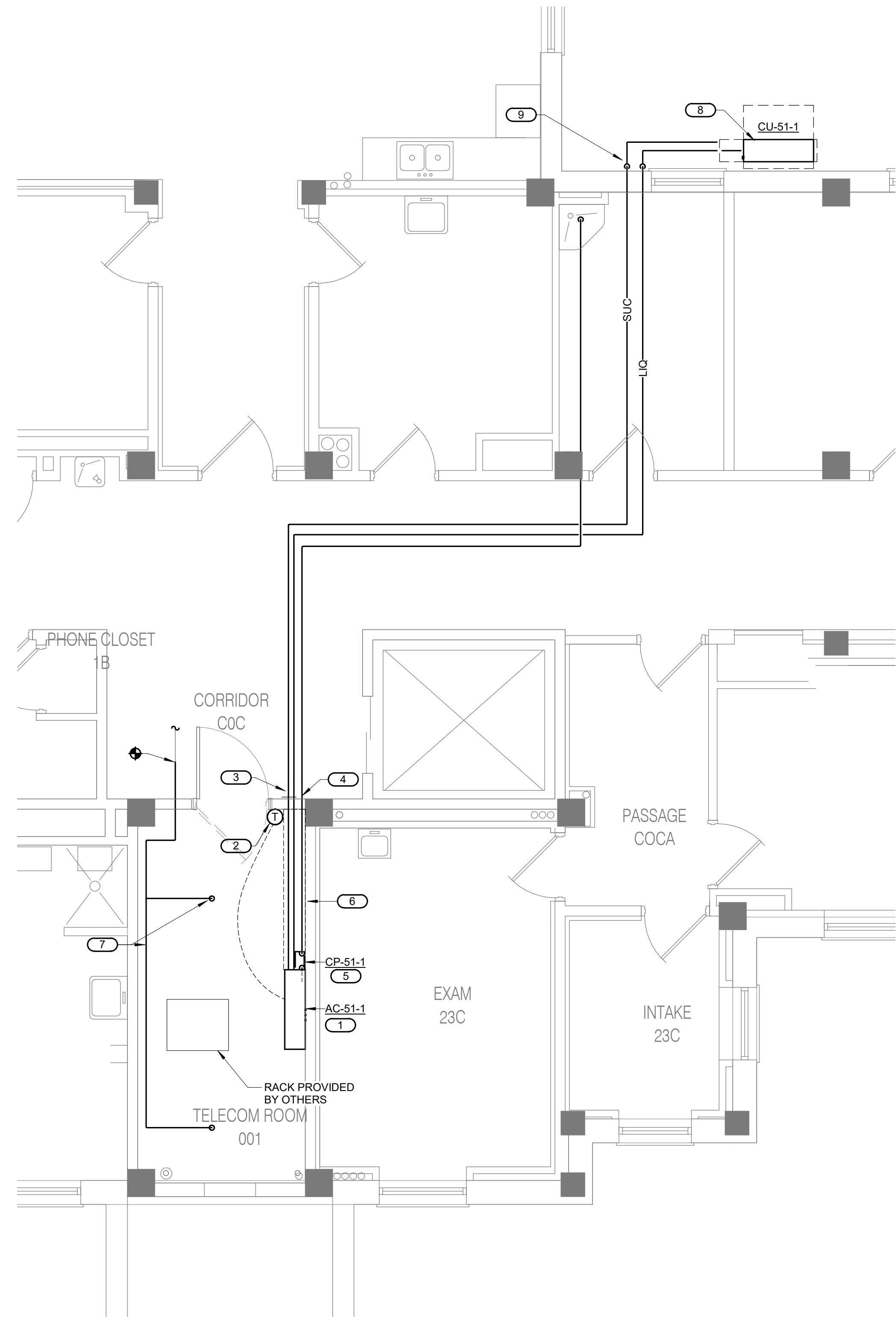
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Veterans Health Administration  
St. Cloud VA Health Care System



**FIELD VERIFICATION NOTES**

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  - 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 1/51-M200: ( # )**
1. PROVIDE NEW WALL-MOUNTED SPLIT SYSTEM AC UNIT.
  2. PROVIDE NEW THERMOSTAT.
  3. ROUTE REFRIGERANT PIPING TO NEW AIR COOLED CONDENSING UNIT LOCATED ON GRADE.
  4. ROUTE 1" PUMPEDCONDENSATE PIPING TO MOP SINK IN HAC 14.
  5. PROVIDE NEW CONDENSATE PUMP, DRIP PAN CONDENSATE PIPING IN TR ROOM. SEE DETAIL FOR REQUIREMENTS.
  6. PROVIDE DRIP PAN FOR CONDENSATE PIPING.
  7. EXTEND FIRE SPRINKLER BRANCH LINE AND PROVIDE NEW FIRE SPRINKLER HEAD.
  8. PROVIDE NEW AIR COOLED CONDENSING UNIT CU-51-1. PROVIDE CONCRETE PAD. REFER TO REFRIGERANT PIPING DETAIL 1/0-GM400 AND PAD MOUNTING DETAIL 3/0-GM400.
  9. REFER TO 2/0-GM401 FOR WALL PENETRATION SEALING DETAIL.



**1 BASEMENT LEVEL PLAN - MECHANICAL - TELECOM 001**  
 1/4" = 1'-0" 0 2' 4' 8'

5/12/2022 4:41:09 PM BIM 360://21102.001 - VA St Cloud EHRM Infrastructure Upgrades/656-235/B51.M\_R21.rvt

No	REVISION	DATE
100% CD		03/30

**CONSULTANT**

**AST SES** SPECIALIZED ENGINEERING SOLUTIONS

10160 Illinois Circle  
Omaha, NE 68134  
Phone: 402.991.5530  
www.specializedeng.com

**ARCHITECT/ENGINEER OF RECORD**

**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

**STAMP**

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 Engineer under the laws of the State of Minnesota.

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

**DRAWING TITLE**

BASEMENT FLOOR PLAN - MECHANICAL

<b>PROJECT TITLE</b>	<b>DATE</b>
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
<b>PLOT SCALE</b>	
<b>PROJECT NO.</b>	<b>DRAWING NO.</b>
656-21-235	51-M200
<b>BUILDING No.</b>	<b>CHECKED BY</b>
51	RDL
<b>DRAWN BY</b>	<b>DATE</b>
DJC	03/30/2022
<b>LOCATION</b>	<b>FULLY SPRINKLERED</b>
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