

BUILDING 118 - EHRM INFRASTRUCTURE UPGRADES

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

OWNER AND CONSULTANTS:

VA COR:
CONTACT: MIKE ENGMARK
ADDRESS: ST CLOUD VA MEDICAL CENTER
4801 VETERANS DRIVE
ST. CLOUD, MN 56303
PHONE: 320-252-1670
PROGRAM MANAGER:
CONTACT: JONATHAN WEST
ADDRESS: ST CLOUD VA MEDICAL CENTER
4801 VETERANS DRIVE
ST. CLOUD, MN 56303
PHONE: 504-250-2699
EMAIL: Jonathan.West@vcaint.com

CIVIL ENGINEER:
NAME: ANDERSON ENGINEERING OF MN, LLC
ADDRESS: 13605 1ST AVE NORTH, SUITE 100
PLYMOUTH, MN 55441

CONTACT: IAN WEBER
PHONE: 763-412-4000

ARCHITECT:
NAME: ANDERSON ENGINEERING OF MN, LLC
ADDRESS: 13605 1ST AVE NORTH, SUITE 100
PLYMOUTH, MN 55441

CONTACT: EDWARD MARKFORT
PHONE: 763-412-4000

STRUCTURAL ENGINEER:
NAME: ADVANCED STRUCTURAL TECHNOLOGIES
ADDRESS: 7301 OHMS LANE, SUITE 215
EDINA, MN 55439

CONTACT: ZACHARY CRAIG
PHONE: 952-854-9302

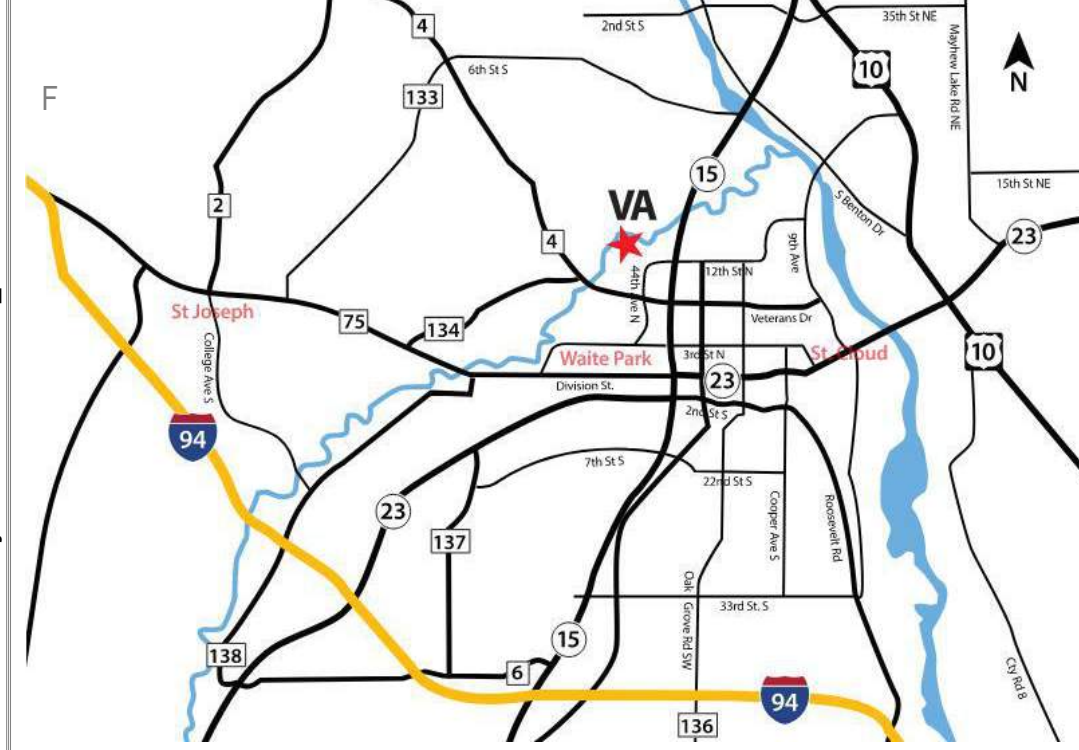
TELECOMMUNICATIONS ENGINEER:
NAME: SPECIALIZED ENGINEERING SOLUTIONS
ADDRESS: 10360 ELLISON CIRCLE
OMAHA, NE 68134

CONTACT: KRIS BURNHAM
PHONE: 402-991-5520

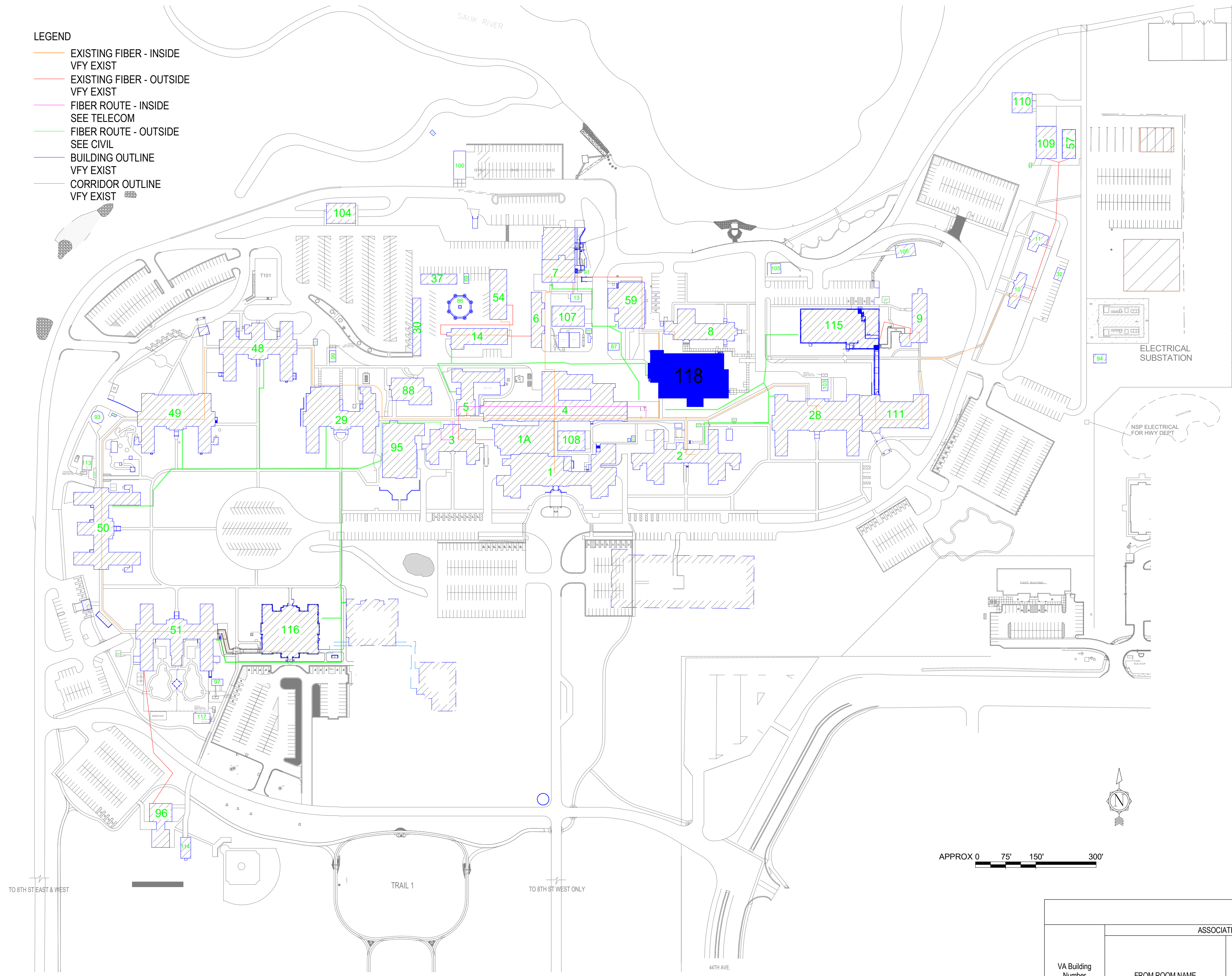
MECHANICAL/PLUMBING ENGINEER:
NAME: SPECIALIZED ENGINEERING SOLUTIONS
ADDRESS: 10360 ELLISON CIRCLE
OMAHA, NE 68134

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 118

SHEET NO.	SHEET TITLE
118-G100	BUILDING 118 COVER SHEET & SHEET INDEX
118-G101	BASEMENT FLOOR - INFECTION CONTROL & PHASING PLAN
118-G111	FIRST FLOOR - INFECTION CONTROL & PHASING PLAN
118-AS100	BASEMENT FLOOR PLANS
118-AS110	FIRST FLOOR PLANS
118-TD110	FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
118-TN110	FIRST FLOOR PLAN - TELECOMMUNICATIONS
118-TN210	FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE
118-TN401	ENLARGED PLANS - TELECOMMUNICATIONS
118-TN401	ENLARGED PLANS - TELECOMMUNICATIONS
118-E201	FIRST FLOOR - ELECTRICAL
118-E300	ELECTRICAL ENLARGED PLANS
118-M101	FIRST FLOOR DEMOLITION - MECHANICAL
118-M201	FIRST FLOOR - MECHANICAL
SEE CAMPUS SHEETS FOR ADDITIONAL INFORMATION	

ROOM SCHEDULE

NO.	NAME	CABLING	PATCH PANEL	FIBER	POWER	BONDING	UPS	DEDICATED COOLING	TEMPERATURE	HUMIDITY	RACK SENSOR	SPACE	AREA	WIDTH (FT)	LENGTH (FT)	HT TO CLG STRUCT	REMARKS
BASEMENT																	
005	TELECOM ROOM	X	X	X	X	X	X	X	X	X	X	86 SF	8.0	10.7	12.08		UPDATE EXIST IT DATA ROOM TO EHRM TELECOM ROOM STANDARDS. SEE TELECOM DRAWINGS
FIRST FLOOR																	
115	TELECOM ROOM			X	X		X	X	X	X	X	65 SF	8.0	8.0	12.08		UPDATE EXIST IT DATA ROOM TO EHRM TELECOM ROOM STANDARDS. SEE TELECOM DRAWINGS

HAZARDOUS MATERIAL SCHEDULE

LEVEL	ROOM NO.	ROOM NAME	QUESTIONABLE HAZARDOUS ELEMENT	POSSIBLE ABATEMENT ACTION
BASEMENT	005	TELECOM ROOM	NONE	NONE
FIRST FLOOR	115	TELECOM ROOM	NONE	NONE
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	005	TELECOM ROOM	NUTRITION / FOODS SERVICE KITCHEN	TYPE C	GROUP 1	CLASS II	EAST	OCCUPIED CONSTRUCTION	NIGHT
FIRST FLOOR	115	TELECOM ROOM	NUTRITION / FOODS SERVICE KITCHEN	TYPE C	GROUP 1	CLASS II	EAST	OCCUPIED CONSTRUCTION	NIGHT
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.									

LEAK PREVENTION / DIVERTER SCHEDULE

LEVEL	ROOM NO.	ROOM NAME	OVERHEAD LEAK DIVERTER AND DRAIN PIPING	LEAK PREVENTION BARRIER WATERPROOFING
BASEMENT	005	TELECOM ROOM		
FIRST FLOOR	115	TELECOM ROOM		
SEE GENERAL NOTES SHEET FOR DETAIL. MWP = MEMBRANE WATERPROOFING. MASONRY = FLUID-APPLIED WATERPROOFING. INT = INTERIOR. EXT = EXTERIOR				

OPENING SCHEDULE

ASSOCIATED ROOMS		OPENING		PANEL INFORMATION		FRAME INFORMATION		NEW GROUP		FIRE LABEL (MIN)		ELECTRICAL		COMMENTS
VA Bldg Number	FROM ROOM NAME	TO ROOM NAME	NUMBER	WIDTH	HEIGHT	PANEL TYPE	2ND PANEL TYPE	PANEL GLAZING	FRAME TYPE	FRAME GLAZING	FRAME LABEL (MIN)	GASKET	ELECTRICAL	
118		TELECOM ROOM	005	3'-0"	7'-0"	HMF	NONE	NONE	HMM-1	NONE	HW-3.2	45	Y	Y
118		TELECOM ROOM	115	3'-0"	7'-0"	HMF	NONE	NONE	HMM-1	NONE	HW-3.2	45	Y	Y

CONSULTANT



ARCHITECT/ENGINEER OF RECORD



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

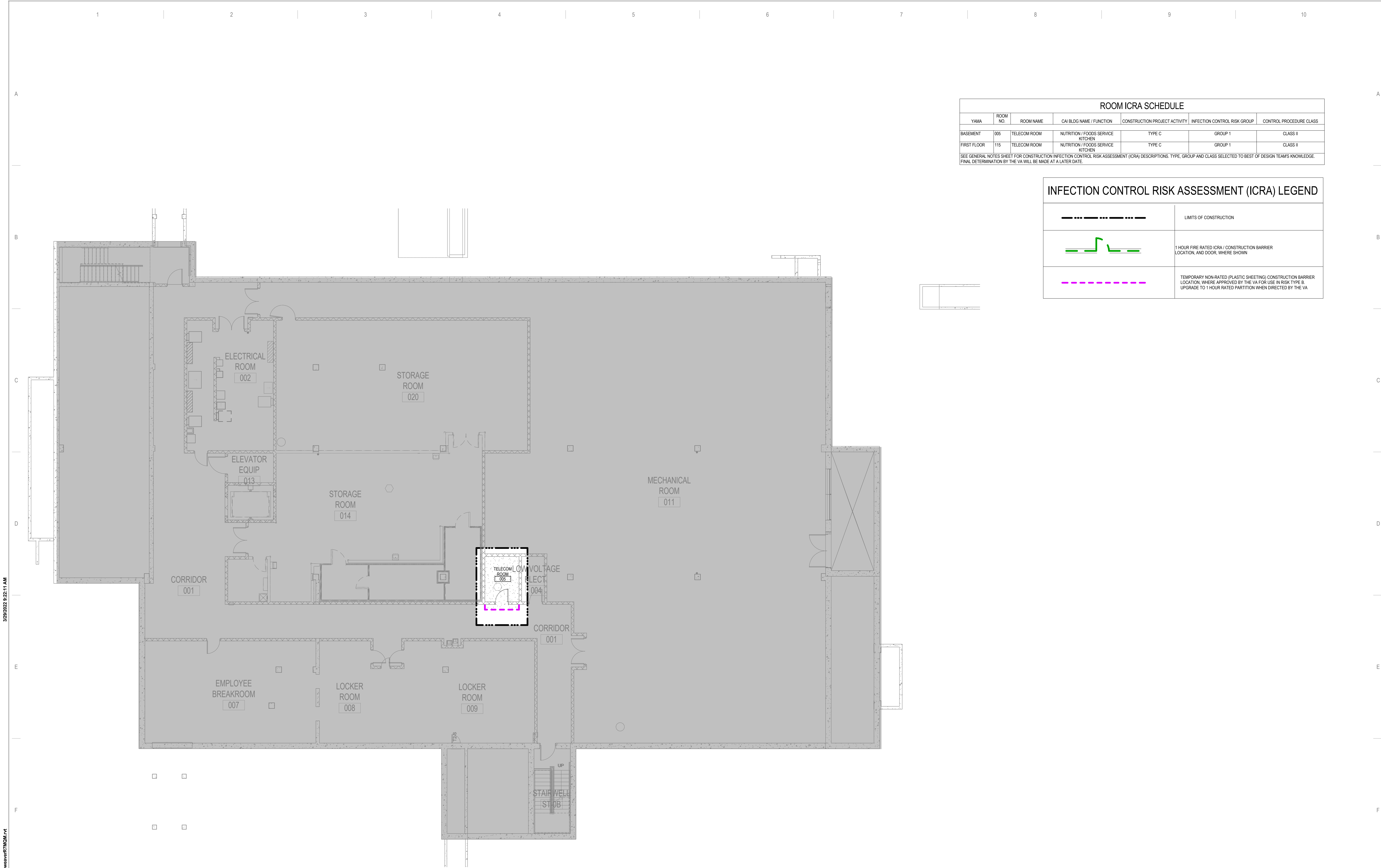
APPROVED: _____ DATE: _____	APPROVED: PROJECT COR _____ DATE: _____	APPROVED: PATIENT SAFETY _____ DATE: _____	APPROVED: DMS MANAGER _____ DATE: _____	APPROVED: DIRECTOR FMS _____ DATE: _____
APPROVED: _____ DATE: _____	APPROVED: SERVICE LINE DIRECTOR _____ DATE: _____	APPROVED: SAFETY MANAGER _____ DATE: _____	APPROVED: MO MANAGER _____ DATE: _____	APPROVED: ASSOCIATE DIRECTOR _____ DATE: _____
APPROVED: _____ DATE: _____	APPROVED: DMS COORDINATOR _____ DATE: _____	APPROVED: CHIEF OF POLICE _____ DATE: _____	APPROVED: PROJECTS SECTION MANAGER _____ DATE: _____	APPROVED: NURSE EXECUTIVE _____ DATE: _____
APPROVED: _____ DATE: _____	APPROVED: INFECTION CONTROL NURSE _____ DATE: _____	APPROVED: CHIEF OF STAFF _____ DATE: _____	APPROVED: ASSISTANT CHIEF ENGINEER _____ DATE: _____	APPROVED: CHIEF OF STAFF _____ DATE: _____

DRAWING TITLE

BUILDING 118 COVER SHEET & SHEET INDEX

PROJECT FILE: EHRM INFRASTRUCTURE UPGRADES	DATE: 03/30/2022
PLOT SCALE: 1"=10'-0"	PROJECT NO: 656-21-235
BUILDING NO: 118	CHECKED BY: EM, BMW
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWING NO: 118-G1000
FULLY SPRINKLERED	COVER OF





ROOM ICRA SCHEDULE						
YAMA	ROOM NO.	ROOM NAME	CAI BLDG NAME / FUNCTION	CONSTRUCTION PROJECT ACTIVITY	INFECTION CONTROL RISK GROUP	CONTROL PROCEDURE CLASS
BASEMENT	005	TELECOM ROOM	NUTRITION / FOODS SERVICE KITCHEN	TYPE C	GROUP 1	CLASS II
FIRST FLOOR	115	TELECOM ROOM	NUTRITION / FOODS SERVICE KITCHEN	TYPE C	GROUP 1	CLASS II

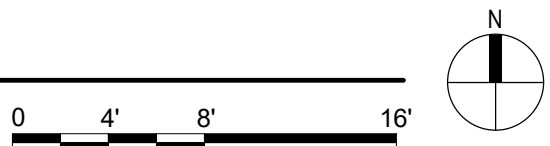
SEE GENERAL NOTES SHEET FOR CONSTRUCTION INFECTION CONTROL RISK ASSESSMENT (ICRA) DESCRIPTIONS. TYPE, GROUP AND CLASS SELECTED TO BEST OF DESIGN TEAMS KNOWLEDGE. FINAL DETERMINATION BY THE VA WILL BE MADE AT A LATER DATE.

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

AST **SES** **SPECIALIZED ENGINEERING SOLUTIONS**

10360 Ellison Circle
Omaha, NE 68134

Phone: 402.991.5520
www.specializedeng.com

ARCHITECT/ENGINEER OF RECORD

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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

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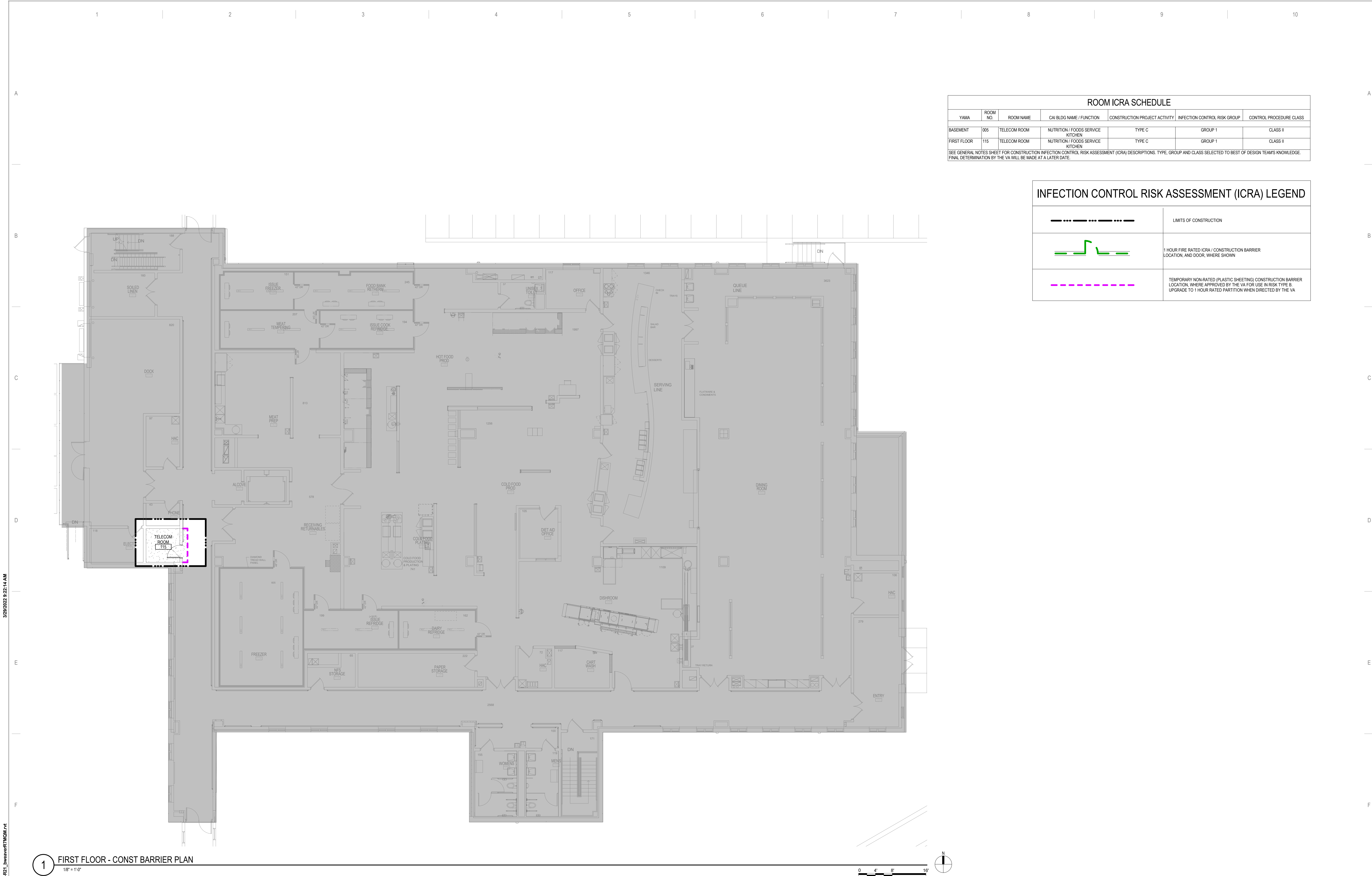
BASEMENT FLOOR -
INFECTION CONTROL &
PHASING PLAN

PROJECT TITLE		DATE	
EHRM INFRASTRUCTURE UPGRADES		03/30/2022	
PLOT SCALE		656-21-235	
BUILDING NO.	CHECKED BY	DRAWN	DRAWING NO.
118	EM	BMW	118-G101
LOCATION		FULLY SPRINKLERED	
VA MEDICAL CENTER ST. CLOUD, MN 56303		DWS OF	

VA

U.S. Department of Veterans Affairs

Veterans Health Administration
St. Cloud VA Health Care System



ROOM ICRA SCHEDULE						
YAMA	ROOM NO.	ROOM NAME	CAI BLDG NAME / FUNCTION	CONSTRUCTION PROJECT ACTIVITY	INFECTION CONTROL RISK GROUP	CONTROL PROCEDURE CLASS
BASEMENT	005	TELECOM ROOM	NUTRITION / FOODS SERVICE KITCHEN	TYPE C	GROUP 1	CLASS II
FIRST FLOOR	115	TELECOM ROOM	NUTRITION / FOODS SERVICE KITCHEN	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
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1 FIRST FLOOR - CONST BARRIER PLAN
1/8" = 1'-0"

No.	REVISION	DATE

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DRAWING TITLE

FIRST FLOOR - INFECTION CONTROL & PHASING PLAN

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

DATE

03/30/2022

PLOT SCALE

656-21-235

DRAWING NO.

118-G111

BUILDING NO.

118

CHECKED BY

EM

DRAWN

EM, BMW

LOCATION

VA MEDICAL CENTER
ST. CLOUD, MN 56303

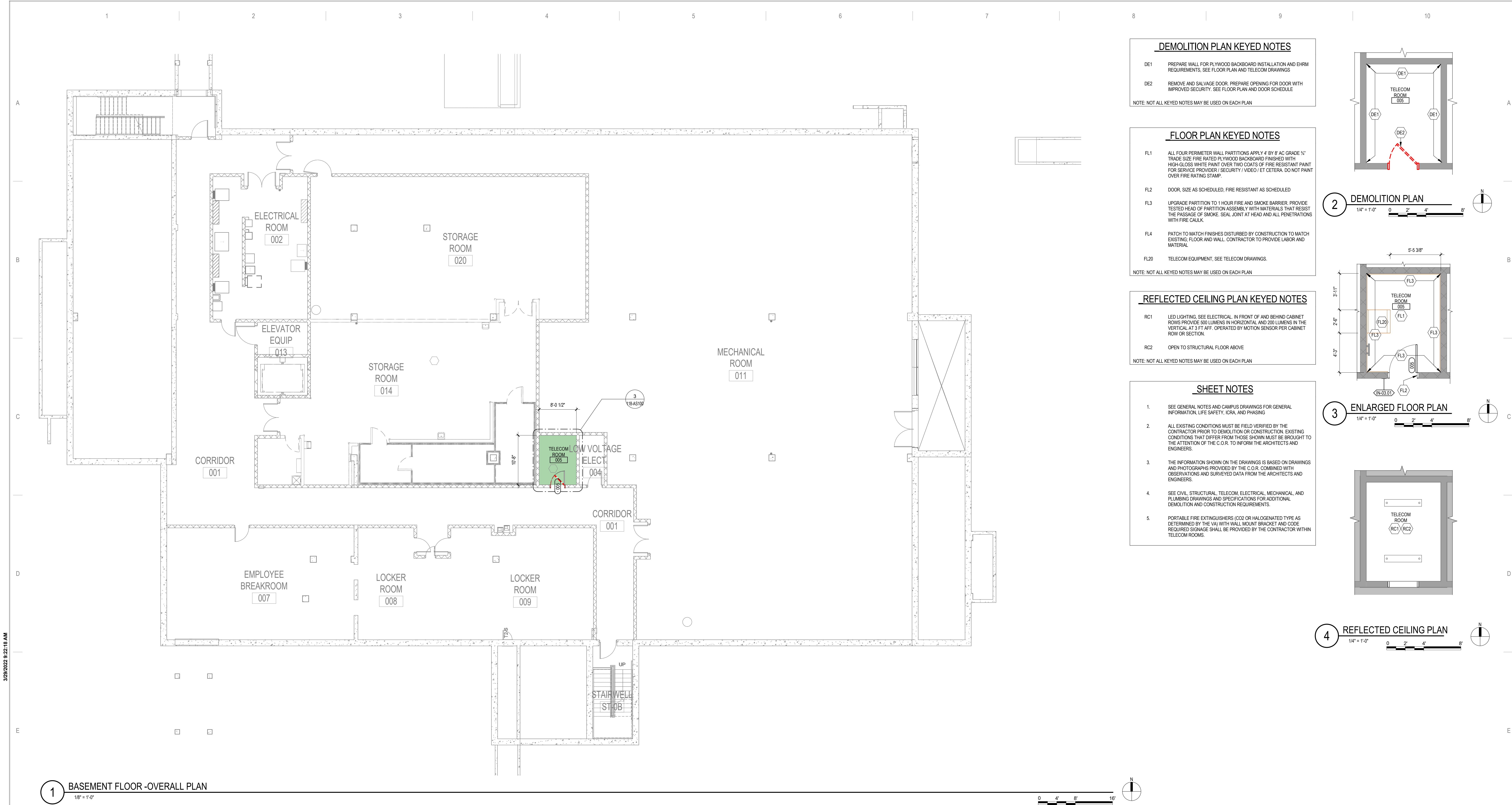
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U.S. Department of Veterans Affairs

Veterans Health Administration
St. Cloud VA Health Care System



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DRAWING TITLE
BASEMENT FLOOR PLANS

PROJECT TITLE
EHRM INFRASTRUCTURE
UPGRADES

DATE
03/30/2022

PLOT SCALE
656-21-235

PROJECT NO.
118-AS100

BUILDING NO.
118

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EM

DRAWN
EM

LOCATION
VA MEDICAL CENTER
ST. CLOUD, MN 56303

DATE
03/30/2022

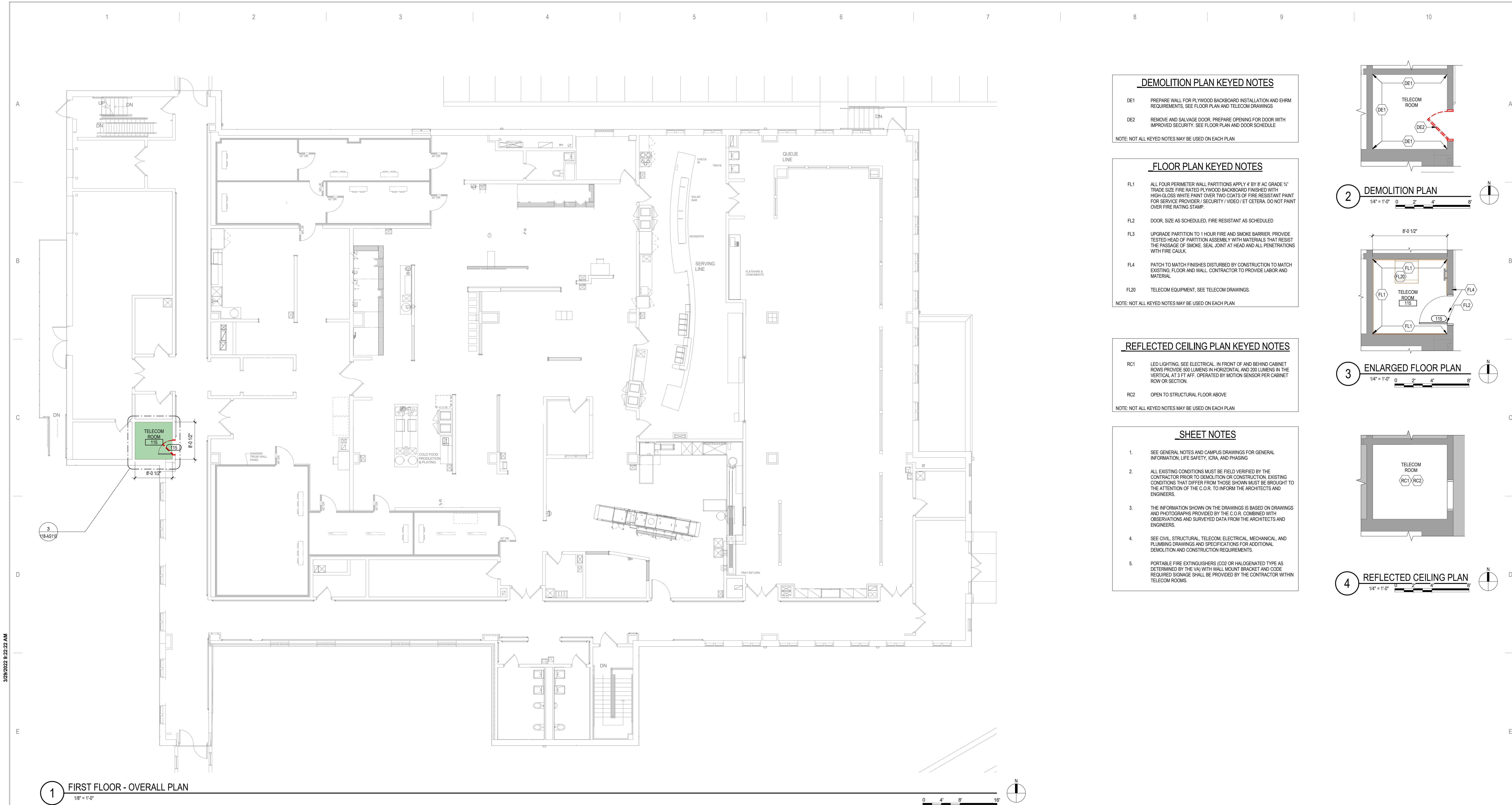
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U.S. Department
of Veterans Affairs

Veterans Health
Administration
St. Cloud VA
Health Care System



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

DRAWING TITLE

FIRST FLOOR PLANS

PROJECT FILE

EHRM INFRASTRUCTURE
UPGRADES

DATE
03/30/2022

PLOT SCALE

PROJECT NO.
656-21-235

DRAWING NO.
118-AS110

LOCATION
VA MEDICAL CENTER
ST CLOUD, MN 56303

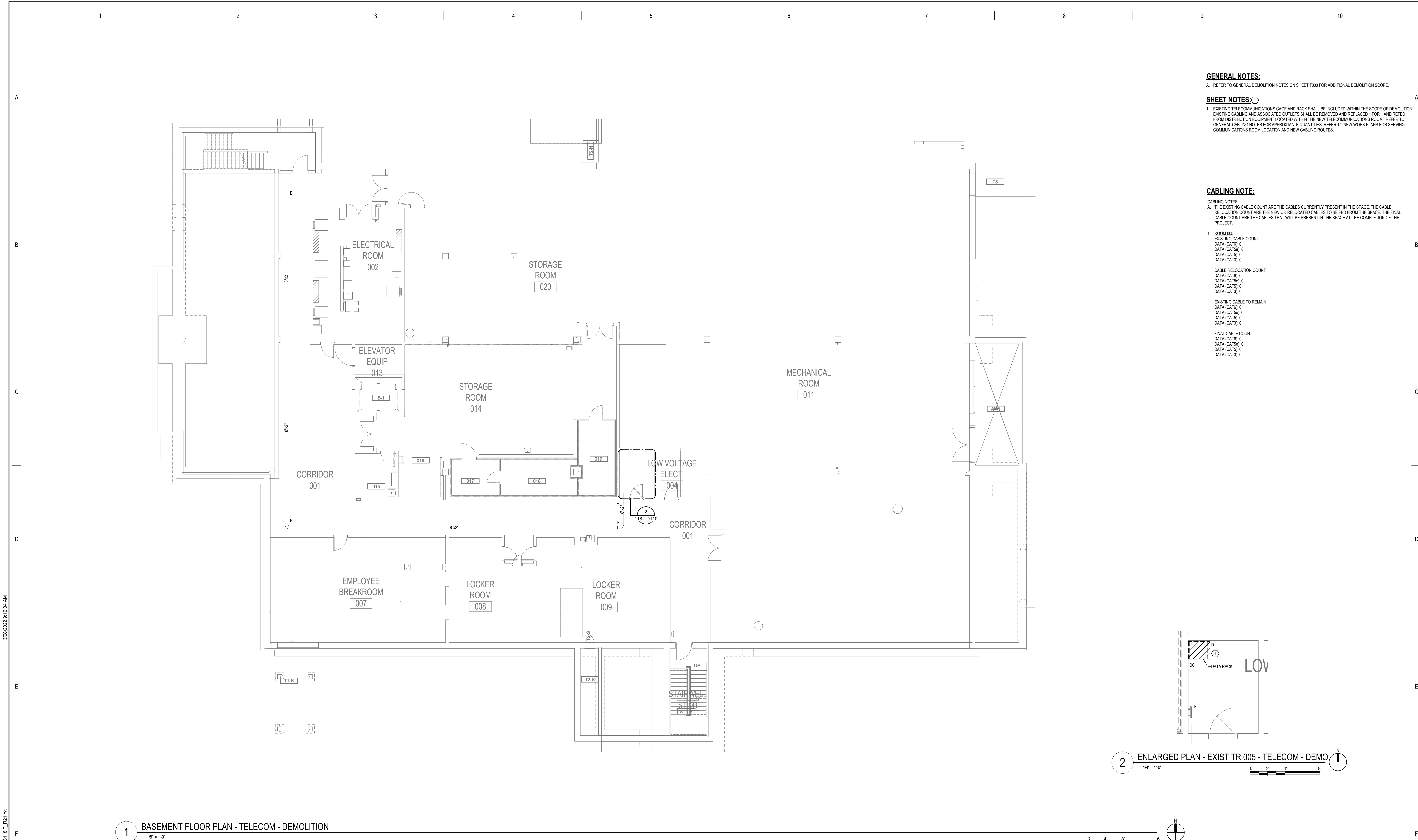
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U.S. Department
of Veterans Affairs

Veterans Health
Administration
St. Cloud VA
Health Care System



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Nathan Timm
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DRAWING TITLE

BASEMENT FLOOR PLAN - ELECTRICAL DEMOLITION

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

DATE

03/30/2022

PLOT SCALE

656-21-235

DRAWING NO.

118

CHECKED BY

KSB

DRAWN

SSK

DRAWING NO.

118-TD100

LOCATION

VA MEDICAL CENTER
ST. CLOUD, MN 56303

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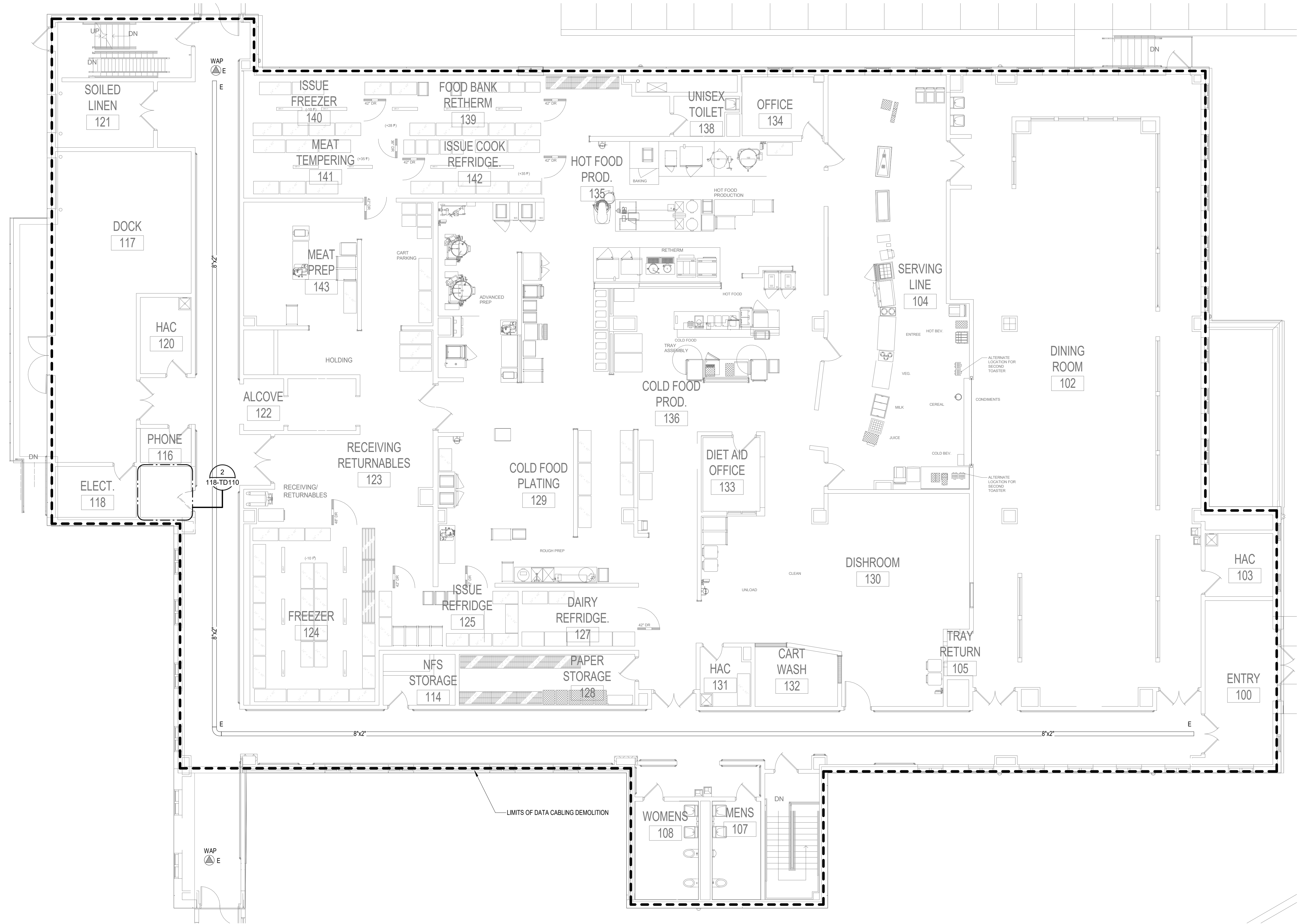
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St. Cloud VA Health Care System

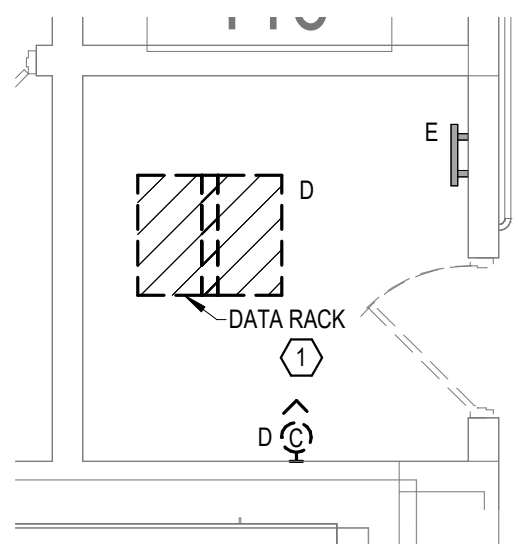
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GENERAL NOTES:
A. REFER TO GENERAL DEMOLITION NOTES ON SHEET T000 FOR ADDITIONAL DEMOLITION SCOPE.

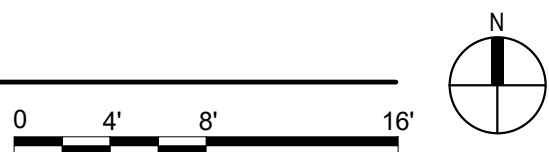
SHEET NOTES:
1. EXISTING TELECOMMUNICATIONS CAGE AND RACK SHALL BE INCLUDED WITHIN THE SCOPE OF DEMOLITION. EXISTING CABLING AND ASSOCIATED OUTLETS SHALL BE REMOVED AND REPLACED 1 FOR 1 AND REFEED FROM DISTRIBUTION EQUIPMENT LOCATED WITHIN THE NEW TELECOMMUNICATIONS ROOM. REFER TO GENERAL CABLING NOTES 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 115
EXISTING CABLE COUNT
DATA (CAT6): 0
DATA (CAT5B): 40
DATA (CAT5): 0
DATA (CAT3): 0
CABLE RELOCATION COUNT
DATA (CAT6): 0
DATA (CAT5B): 0
DATA (CAT5): 0
DATA (CAT3): 0
EXISTING CABLE TO REMAIN
DATA (CAT6): 0
DATA (CAT5B): 0
DATA (CAT5): 0
DATA (CAT3): 0
FINAL CABLE COUNT
DATA (CAT6): 0
DATA (CAT5B): 0
DATA (CAT5): 0
DATA (CAT3): 0



2 ENLARGED PLAN - EXIST TR 115 - TELECOM - DEMO
1/4" = 1'-0"

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



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BICSI ID # 346555
Expires 12-31-24

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DRAWING TITLE

FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

PROJECT TITLE

EHRM INFRASTRUCTURE UPGRADES

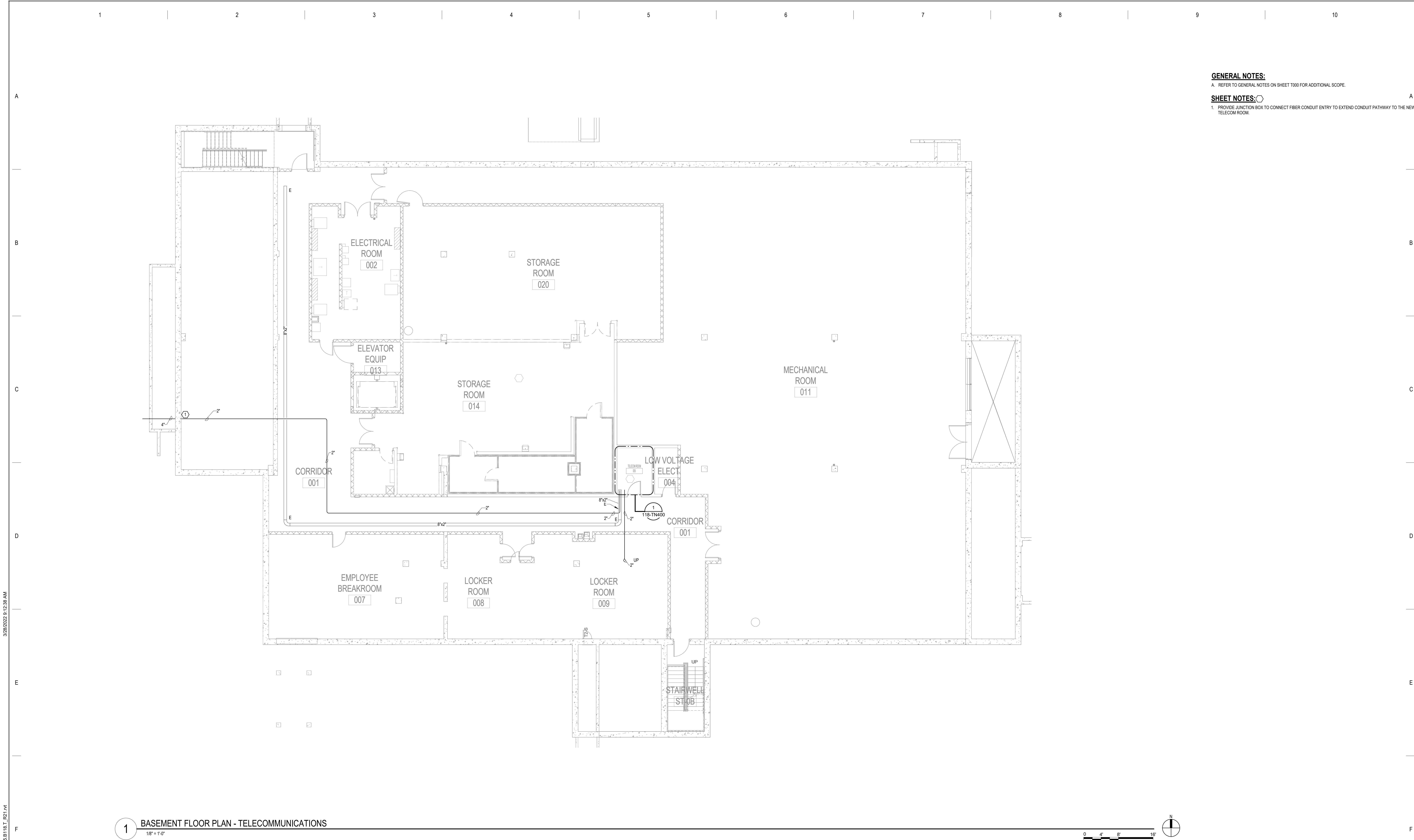
DATE: 03/30/2022
PLOT SCALE:
PROJECT NO: 656-21-235
DRAWING NO: 118-TD110

BUILDING NO: 118
CHECKED BY: KSB
DRAWN BY: SSK
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303
FULLY SPRINKLERED


DWG. OF:

VA

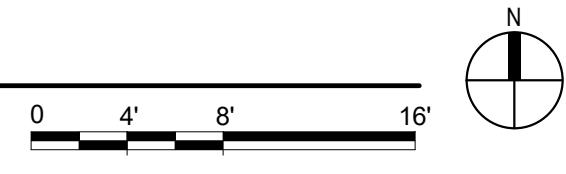
U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System



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

SHEET NOTES: 
1. PROVIDE JUNCTION BOX TO CONNECT FIBER CONDUIT ENTRY TO EXTEND CONDUIT PATHWAY TO THE NEW TELECOM ROOM.

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



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CONSULTANT



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Nathan Timm
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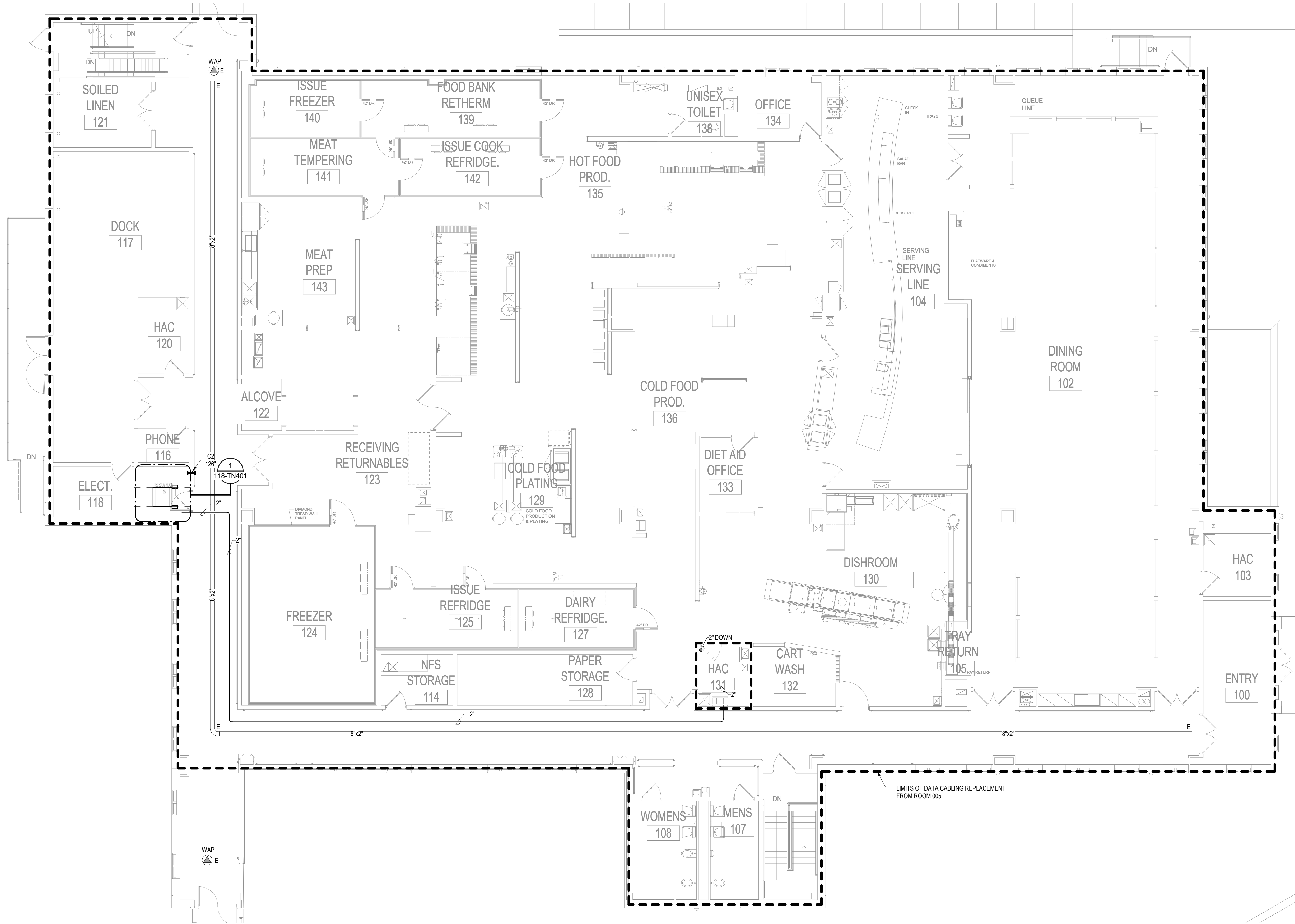
BASEMENT FLOOR PLAN - TELECOMMUNICATIONS

PROJECT TITLE		DATE	
EHRM INFRASTRUCTURE UPGRADES		03/30/2022	
PLOT SCALE		PROJECT NO.	
		656-21-235	
BUILDING NO.	CHECKED BY	DRAWN	DRAWING NO.
118	KSB	SSK	118-TN100
LOCATION		FULLY SPRINKLERED	
VA MEDICAL CENTER ST. CLOUD, MN 56303		DWG. OF	

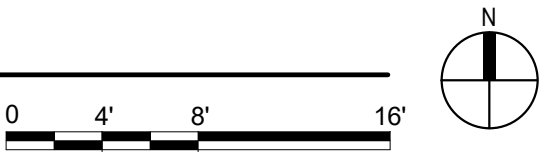


U.S. Department of Veterans Affairs
Veterans Health Administration
St. Cloud VA Health Care System

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



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



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

DRAWING TITLE

**FIRST FLOOR PLAN -
TELECOMMUNICATIONS**

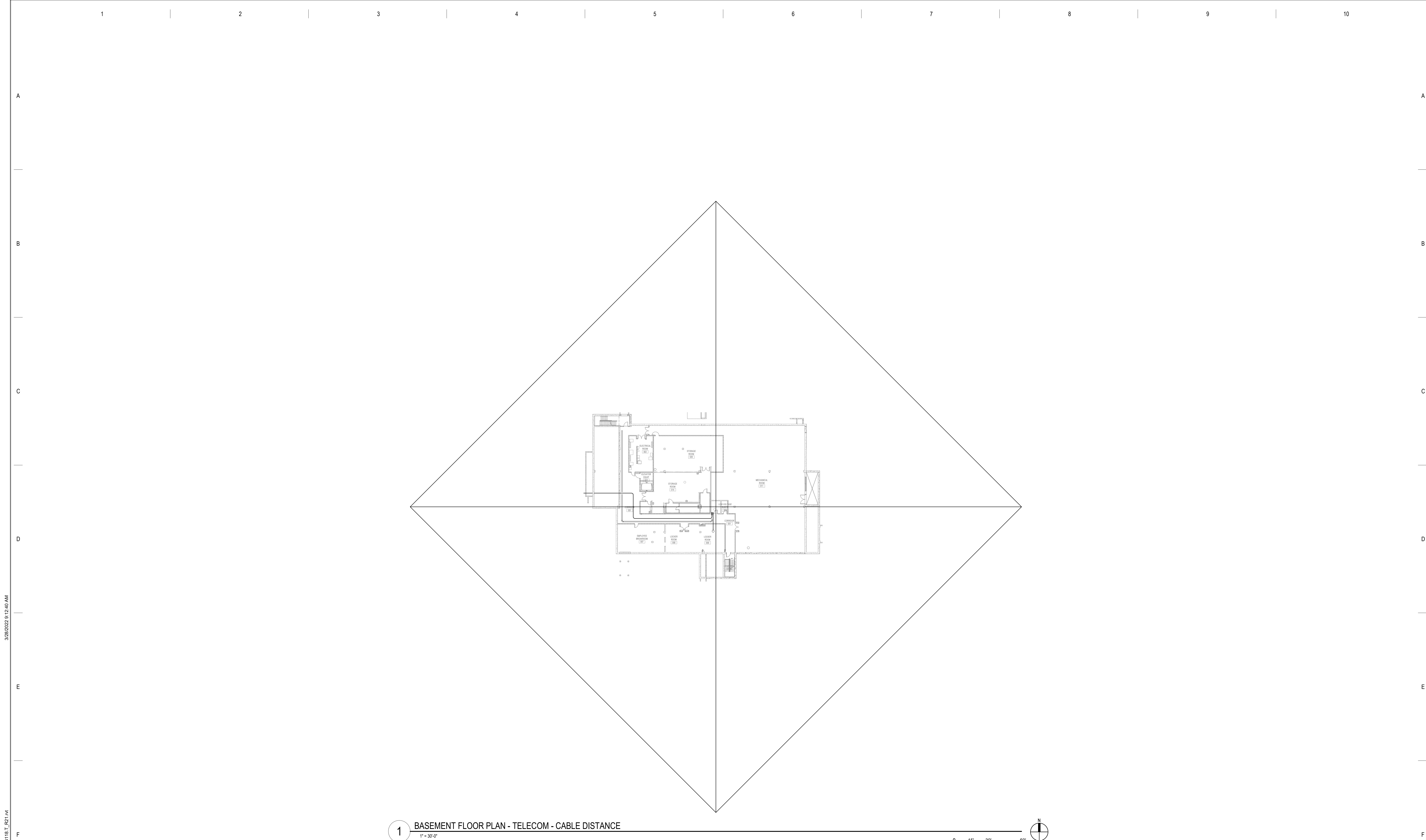
PROJECT FILE

**EHRM INFRASTRUCTURE
UPGRADES**

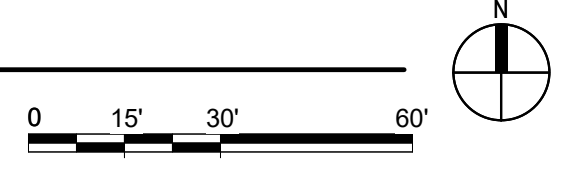
DATE
03/30/2022
PLOT SCALE
PROJECT NO.
656-21-235
DRAWING NO.
118-TN110
LOCATION
VA MEDICAL CENTER
ST. CLOUD, MN 56303
FULLY
SPRINKLERED
DWS. OF



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



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



BIM 360/12102.001 - VA St Cloud EHRM Infrastructure Upgrades\656-235-B118_T_R01.rvt 3/28/2022 9:12:40 AM

No	REVISION	DATE


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DRAWING TITLE

BASEMENT FLOOR PLAN -
TELECOM - CABLE DISTANCE

PROJECT TITLE

EHRM INFRASTRUCTURE
UPGRADES

DATE

03/30/2022

PLOT SCALE

PROJECT NO.

656-21-235

DRAWING NO.

118-TN200

BUILDING NO.

118

CHECKED BY

KSB

DRAWN

SSK

LOCATION

VA MEDICAL CENTER
ST. CLOUD, MN 56303

FULLY
SPRINKLERED

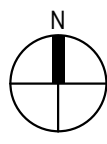
DWG. OF



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

F

F



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

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No	REVISION	DATE

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BICS ID # 346555
Expires 12-31-24

Signature

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.
118-TN400

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 NOTES ON SHEET T000 FOR ADDITIONAL SCOPE.

CABLING NOTE:

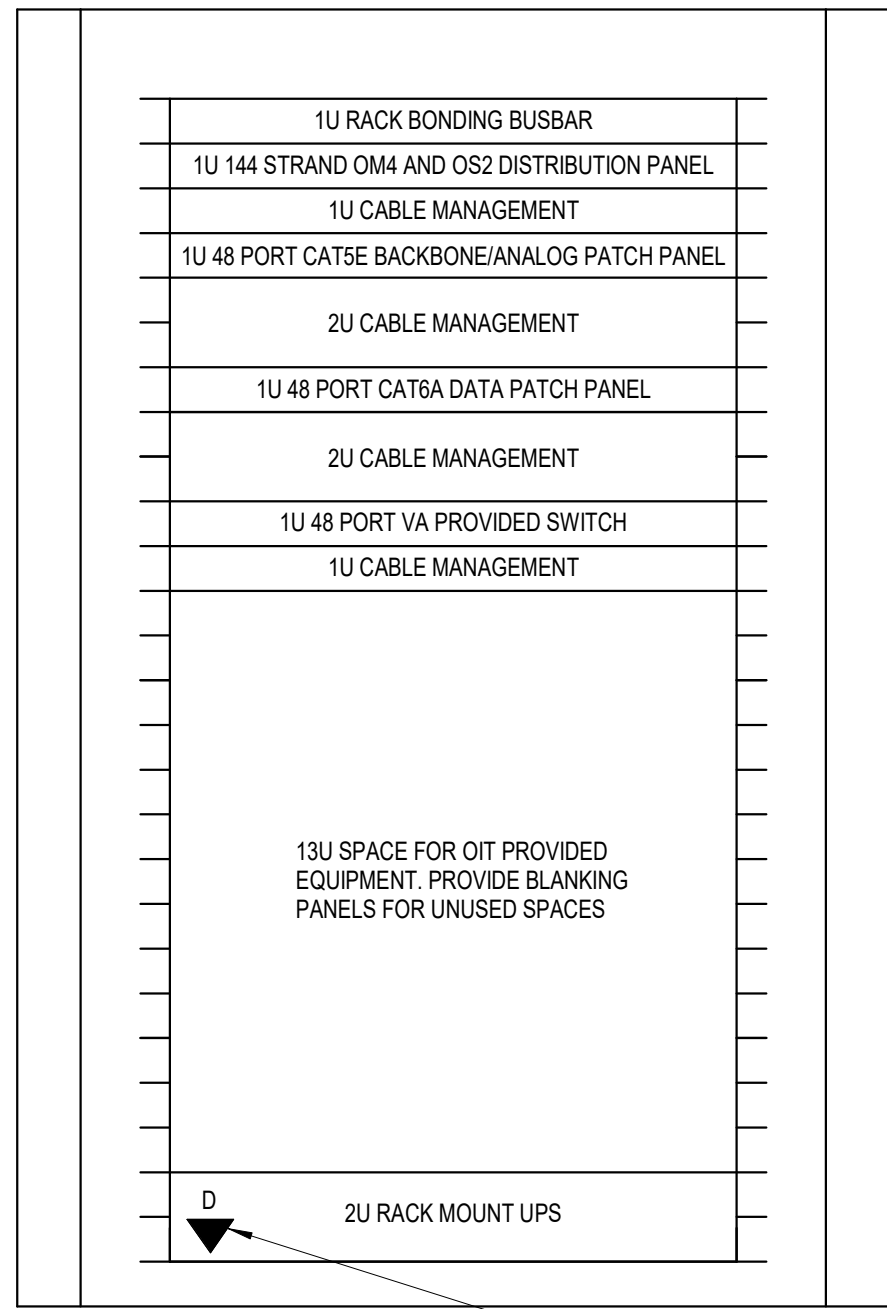
CABLING NOTES:
A. THE EXISTING CABLE COUNT ARE THE CABLES CURRENTLY PRESENT IN THE SPACE.
THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED
FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE
PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT.

1. ROOM 005
EXISTING CABLE COUNT
DATA (CAT5): 0
DATA (CAT5e): 8
DATA (CAT6): 0
DATA (CAT6e): 0

CABLE RELOCATION COUNT
DATA (CAT5): 0
DATA (CAT5e): 0
DATA (CAT6): 0
DATA (CAT6e): 0

EXISTING CABLE TO REMAIN
DATA (CAT5): 0
DATA (CAT5e): 0
DATA (CAT6): 0
DATA (CAT6e): 0

FINAL CABLE COUNT
DATA (CAT5): 8
DATA (CAT6): 0

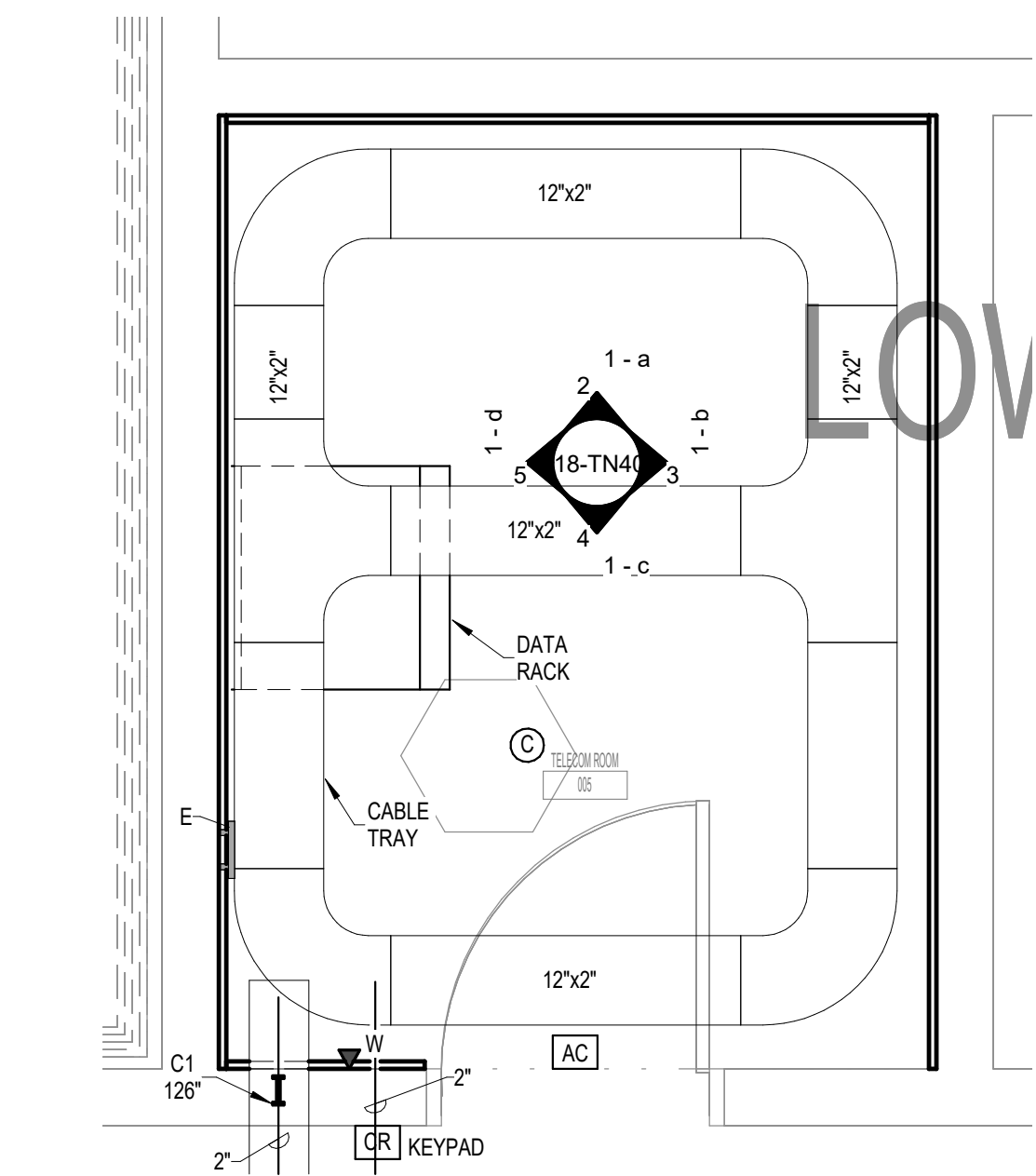


PROVIDE DATA CABLE TO RACK
MOUNTED UPS FOR CONNECTION
TO MONITORING SYSTEM

NOTES:

- REFER TO NEW WORK PLAN FOR RACK LOCATIONS.
- COORDINATE EXACT RACK COUNT AND LOCATION WITH OWNER PRIOR TO PERMANENT INSTALLATION.
- SEE PROJECT SPECIFICATIONS FOR ADDITIONAL RACK COMPONENTS.
- CONTRACTOR TO PROVIDE PATCH PANELS AND HORIZONTAL CABLE MANAGEMENT TO SUPPORT THE DATA COUNT ON THE WORK PLAN + 1 ADDITIONAL SPARE PATCH PANEL. (NOT TO EXCEED 288 PORTS PER RACK)
- SPARE RACKS WITH NO HARDWARE CONFIGURED IN THEM MUST HAVE THE STANDARD UPS INSTALLED UNLESS THE ROOM HAS A CENTRAL UPS SOURCE.
- COORDINATE FINAL RACK COMPONENT LAYOUT WITH OWNER'S ISIT REPRESENTATIVE.
- 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'.
- PUNCHDOWN COPPER BACKBONES ON RACK MOUNT PATCH PANELS. TERMINATE ONE (1) PAIR PER PATCH PANEL PORT.

6 COMMUNICATIONS - TYPICAL WALL CABINET (TE) ELEVATION - TR005
NOT TO SCALE

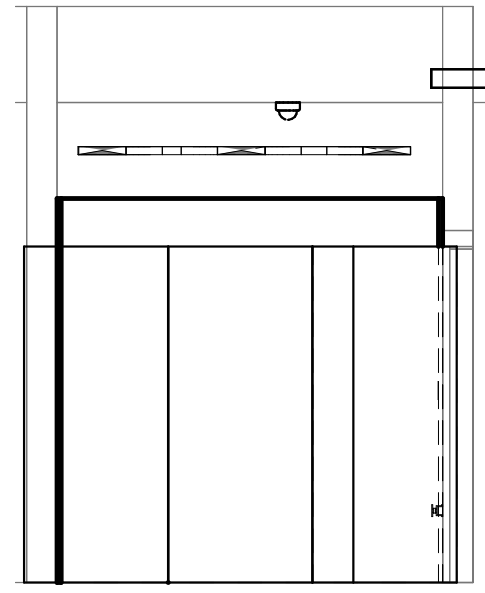


1 ENLARGED PLAN - EXIST TR 005 - TELECOM - CABLE TRAY AND DATA
1/2" = 1'-0"

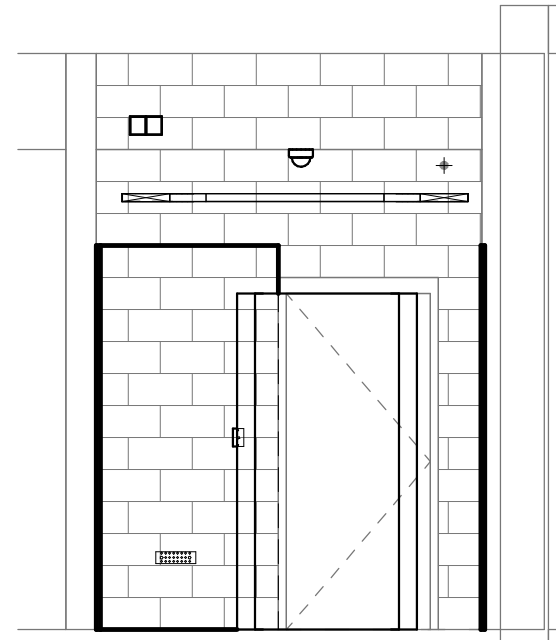
BIM 360://21102.001 - VA St Cloud EHRM Infrastructure Upgrades/656-235 B118_T_R01.rvt 3/28/2022 9:12:45 AM

A
B
C
D
E
F

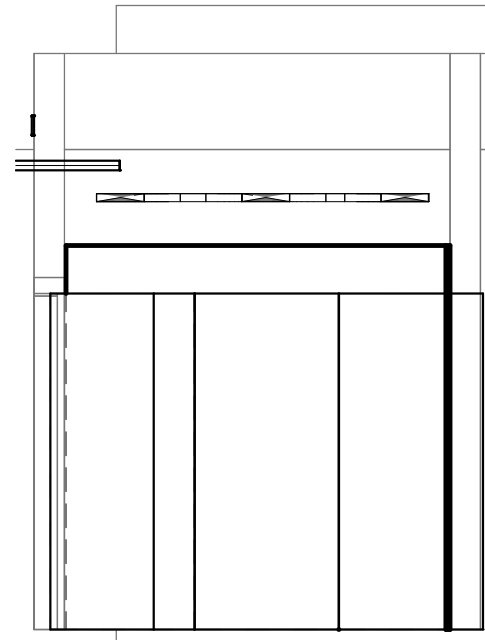
1 2 3 4 5 6 7 8 9 10



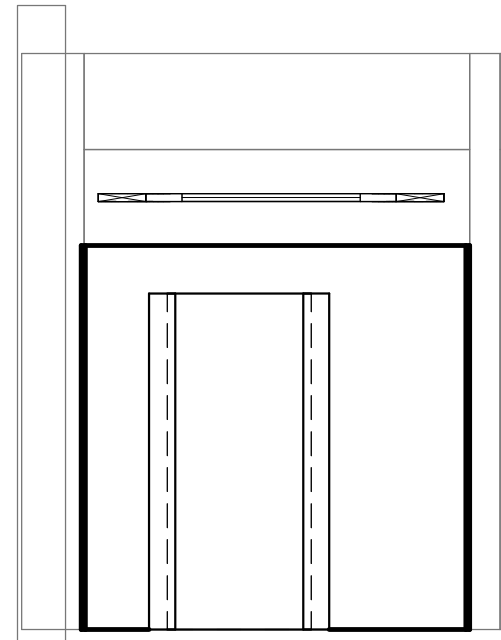
2 2 - a
1/4" = 1'-0"



3 2 - b
1/4" = 1'-0"



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



5 2 - d
1/4" = 1'-0"

GENERAL NOTES:

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

CABLING NOTE:

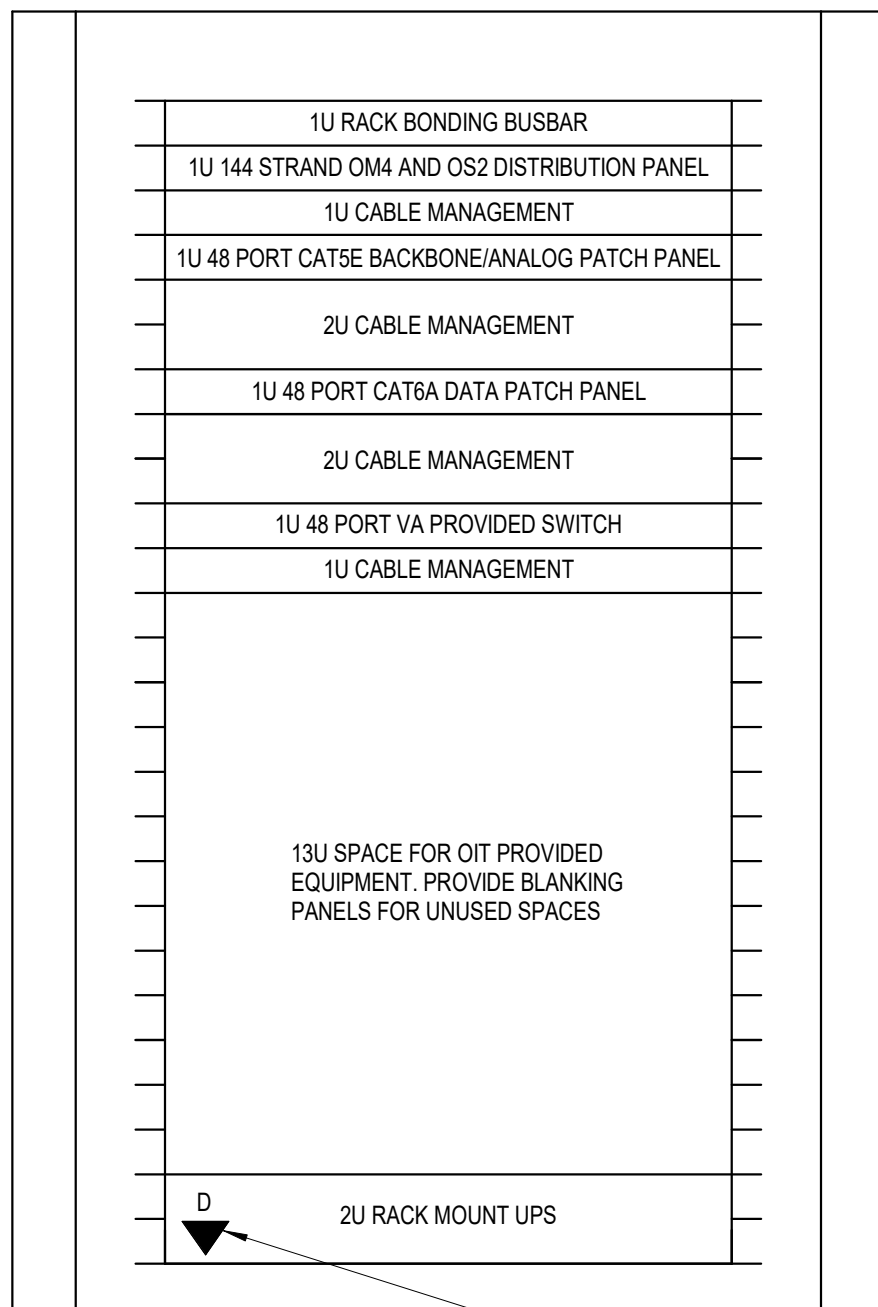
CABLING NOTES:
A. THE EXISTING CABLE COUNT ARE THE CABLES CURRENTLY PRESENT IN THE SPACE.
THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED
FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE
PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT.

1. ROOM 115
EXISTING CABLE COUNT
DATA (CAT6): 40
DATA (CAT5e): 0
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): 40
DATA (CAT5e): 0
DATA (CAT5): 0
DATA (CAT3): 0

FINAL CABLE COUNT
DATA (CAT6): 0
DATA (CAT5e): 40

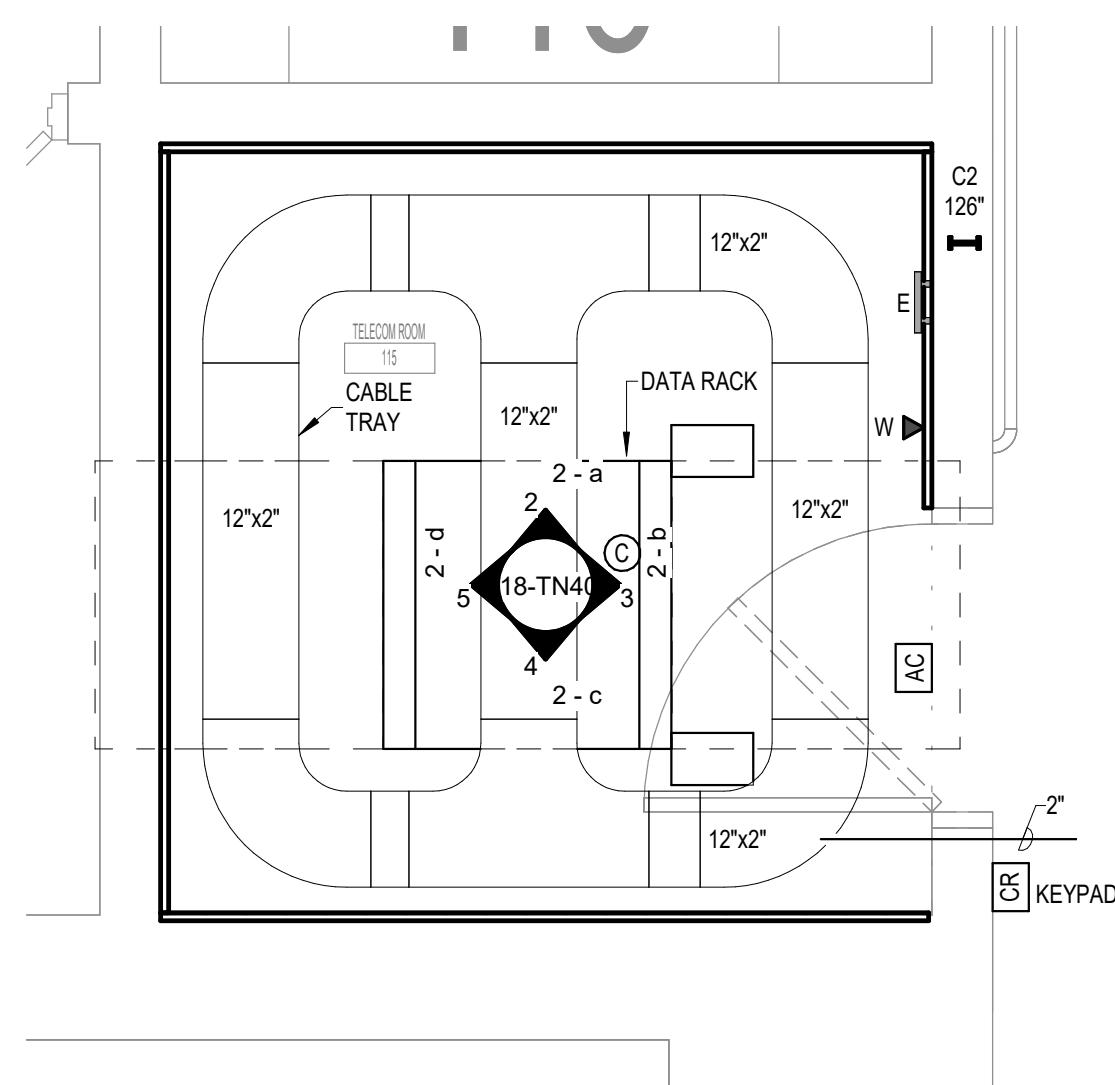


PROVIDE DATA CABLE TO RACK
MOUNTED UPS FOR CONNECTION
TO MONITORING SYSTEM

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. CONTRACTOR TO PROVIDE PATCH PANELS AND HORIZONTAL CABLE MANAGEMENT TO SUPPORT THE DATA COUNT ON THE WORK PLAN + 1 ADDITIONAL SPARE PATCH PANEL. (NOT TO EXCEED 288 PORTS PER RACK)
5. SPARE RACKS WITH NO HARDWARE CONFIGURED IN THEM MUST HAVE THE STANDARD UPS INSTALLED UNLESS THE ROOM HAS A CENTRAL UPS SOURCE.
6. COORDINATE FINAL RACK COMPONENT LAYOUT WITH OWNER'S SIFT REPRESENTATIVE.
7. 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".
8. PUNCH-DOWN COPPER BACKBONES ON RACK MOUNT PATCH PANELS. TERMINATE ONE (1) PAIR PER PATCH PANEL PORT.

6 COMMUNICATIONS - TYPICAL WALL CABINET (TE) ELEVATION - TR115
NOT TO SCALE



1 ENLARGED PLAN - EXIST TR 115 - TELECOM - CABLE TRAY AND DATA
1/2" = 1'-0"

No	REVISION	DATE

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Nathan Timm
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Nathan M. Timm

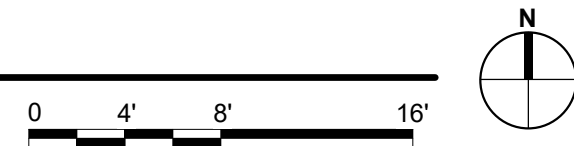
DRAWING TITLE
ENLARGED PLANS -
TELECOMMUNICATIONS

PROJECT FILE EHRM INFRASTRUCTURE UPGRADES	DATE 03/30/2022
BUILDING NO. 118	CHECKED BY KSB
LOCATION VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWN BY SSK
PROJECT NO. 656-21-235	DRAWING NO. 118-TN401
FULLY SPRINKLERED	DWG. OF

VA

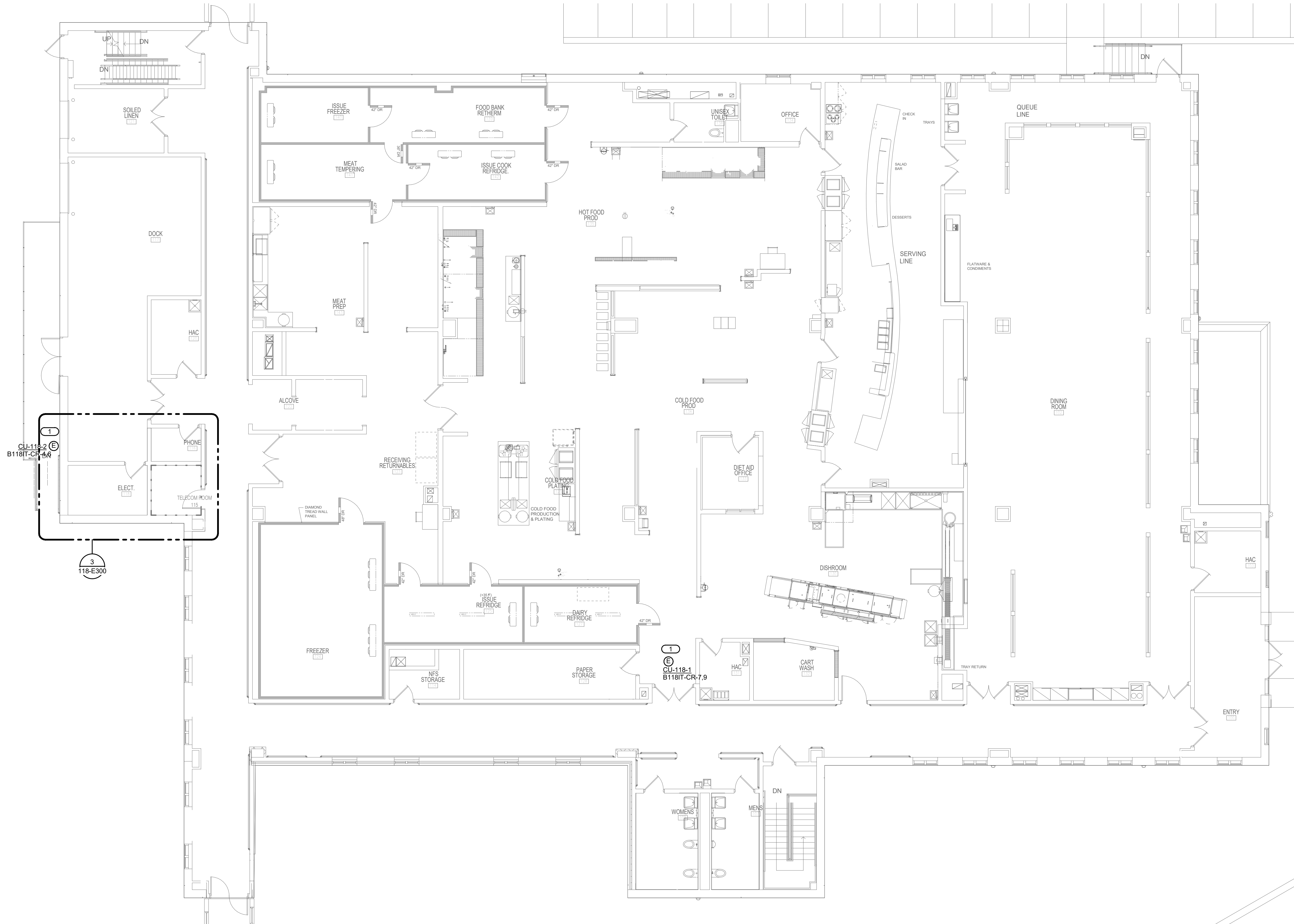
**U.S. Department
of Veterans Affairs**

Veterans Health
Administration
St. Cloud VA
Health Care System

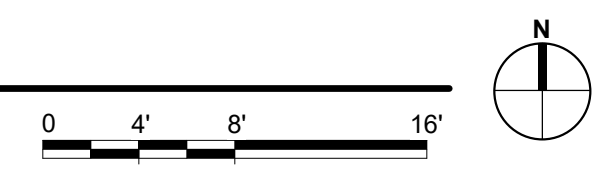


KEYNOTES: C #

1. PROVIDE ELECTRICAL CONNECTION TO CONDENSING UNIT CU-118-1 & CU-118-2, AS REQUIRED. COORDINATE FINAL LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL.



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



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No.	REVISION	DATE
100% CD		03/30

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Anderson Engineering of Minnesota, LLC | Proj # 16305

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I hereby certify that the 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: *[Signature]*
Date: 03/30/2022
License Number: MNE 52095

DRAWING TITLE

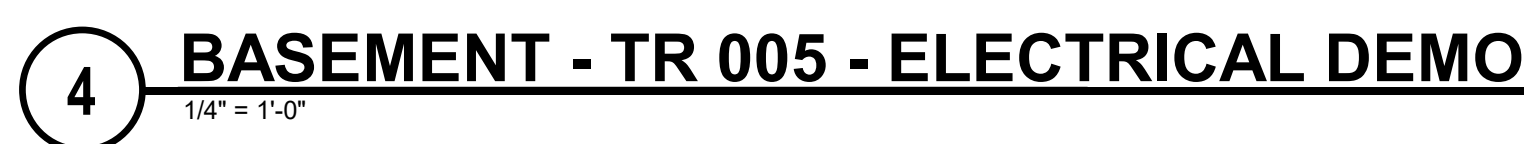
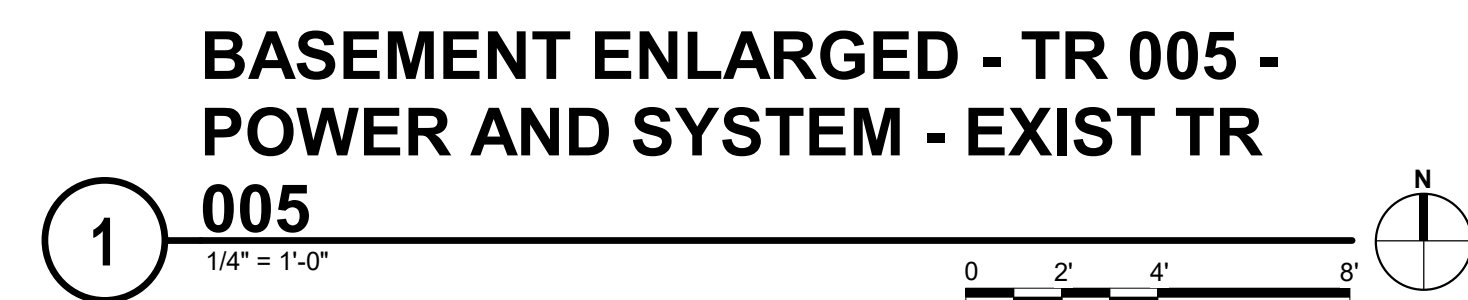
FIRST FLOOR - ELECTRICAL

PROJECT TITLE	DATE
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
PLOT SCALE	
PROJECT NO.	DRAWING NO.
656-21-235	118-E201
BUILDING NO.	CHECKED BY
118	IMEG
LOCATION	DRAWN
VA MEDICAL CENTER ST. CLOUD, MN 56303	IMEG
FULLY SPRINKLERED	DWG. OF

VA

U.S. Department of Veterans Affairs

Veterans Health Administration
St. Cloud VA Health Care System



- | KEYNOTES: | # |
|--|---|
| 1. DISCONNECT AND REMOVE LIGHTS AND RECEPTACLES IN AREA OF NEW IT ROOM. MAINTAIN CIRCUIT CONNECTION TO ADJOINING SPACES. | |
| 2. DISCONNECT UNIT TO BE POWERED BY OUTDOOR UNIT. COORDINATE EXACT LOCATION WITH M.C. | |
| 3. CONNECT SMOKE DETECTOR TO NEAREST EXISTING SLC. | |
| 4. COORDINATE FINAL LOCATION OF RECEPTACLES WITH TELECOM CONTRACTOR. PROVIDE 3/4"X-#10, 1812 IN2 TO PANEL FOR EACH RECEPTACLE. | |
| 5. PROVIDE 1/2"X-#10 BARS FOR 2000/200V, 3-Phase, 4-WIRE RACK MOUNTED UPS FOR EACH RACK TOWER. | |
| 6. PROVIDE 100AMP/800V (120/208V RACK, PDU 20A, WITH 1/2"X-20P, 1812) RACK, PDU 20A, ZERO I/O 5 KW, 200V, (3P) 120V (C) 19 (2) 20A, PROVIDE TWO (2) 1/2"X-20P, 1812 MOUNTED OUTSIDE THE BUILDING. REVISION | |

[illegible]

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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 Engineer under the laws of the State of Minnesota.

Name: Gregory J. Christ

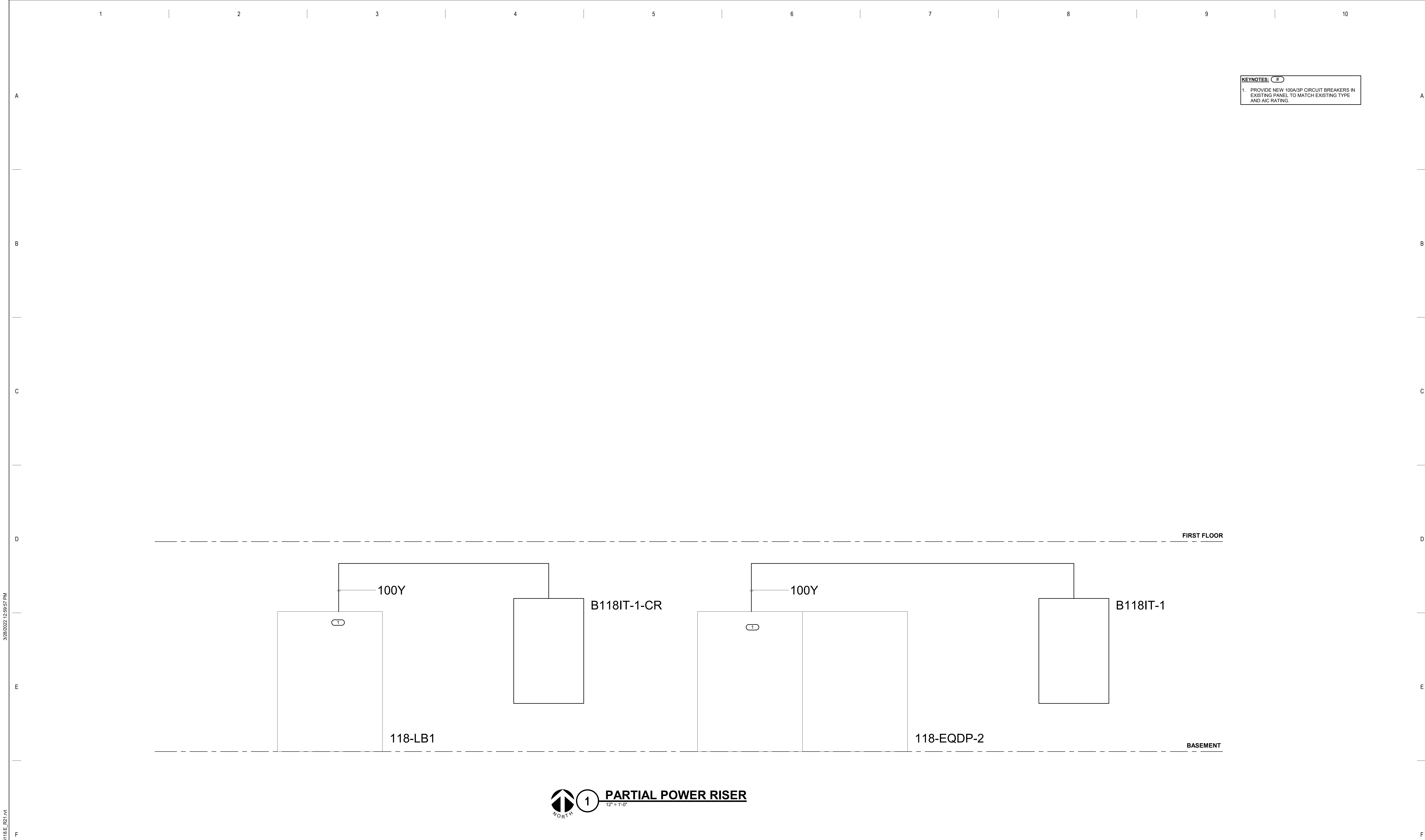
Date: 03/30/2022




License Number: MN# 53095

PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES		DATE: 03/30/2022	
		PLOT SCALE	
		PROJECT NO: 656-21-235	
BUILDING NO 118	CHECKED BY IMEG	DRAWN IMEG	DRAWING NO: 118-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



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100% CD		03/30	
REVISION		DATE	
CONSULTANT		ARCHITECT/ENGINEER OF RECORD	
 SPECIALIZED ENGINEERING SOLUTIONS		 ANDERSON	
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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: MNE 52095		FULLY SPRINKLERED	
DRAWING TITLE		PROJECT TITLE	
ELECTRICAL ONE-LINE DIAGRAMS		EHRM INFRASTRUCTURE UPGRADES	
BUILDING No. 118		CHECKED BY IMEG	
DRAWING NO. 118-E400		DATE 03/30/2022	
LOCATION VA MEDICAL CENTER ST. CLOUD, MN 56303		PLOT SCALE	
FULLY SPRINKLERED		PRECEDENCE 656-21-235	
DWS OF		U.S. Department of Veterans Affairs	
		Veterans Health Administration	
		St. Cloud VA Health Care System	

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/O/P @
LOCATION:

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:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE P H N G	A	B	C	WIRE SIZE G N H	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y
1	L21-20R	20 A	3	1.67	0.72			1	20 A	TELECOM ROOM REC.	2	
--	3	--	--	--		1.67	1.67	--	3	20 A	L21-20R	4
--	5	--	--	--			1.67	1.67	--	--	--	6
7	Lighting	20 A	1	0.03	1.67			--	--	--	8	--
--	9	SPARE	20 A	1	--	0	0	--	1	20 A	SPARE	10
--	11	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	13	SPARE	20 A	1	--	0	0	--	1	20 A	SPARE	14
--	15	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	17	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	19	SPARE	20 A	1	--	0	0	--	1	20 A	SPARE	20
--	21	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	23	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	25	SPARE	20 A	1	--	0	0	--	1	20 A	SPARE	26
--	27	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	29	SPARE	20 A	1	--			0	0	1	20 A	SPARE
Total Load:			4.09 kVA	3.33 kVA	3.33 kVA							
Total Amps:			34.06	27.78	27.78							

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	0.033 kVA	100.00%	0.033 kVA	TOTAL CONNECTED LOAD: 10.75 kVA
Power	10 kVA	100.00%	10 kVA	
Receptacles	0.72 kVA	100.00%	0.72 kVA	TOTAL ESTIMATED DEMAND LOAD: 10.753 kVA
				TOTAL CONNECTED AMPS: 29.85 A
				TOTAL ESTIMATED DEMAND AMPS: 29.8 A

*TOTAL DEMAND CALCULATES 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: 0 A/O/P @
LOCATION:

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:

K E Y	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE P H N G	A	B	C	WIRE SIZE G N H	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y
1	L21-20R	20 A	3	1.67	0.36			1	20 A	TELECOM ROOM REC.	2	
--	3	--	--	--		1.67	1	--	2	20 A	CU-118-2	4
--	5	--	--	--			1.67	1	--	--	--	6
7	CU-118-1	20 A	2	1	1.67			3	20 A	L21-20R	8	
--	9	--	--	--		1	1.67	--	--	--	--	10
11	Lighting	20 A	1			0.03	1.67	--	--	--	--	12
--	13	SPARE	20 A	1	--	0	0	--	1	20 A	SPARE	14
--	15	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	17	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	19	SPARE	20 A	1	--	0	0	--	1	20 A	SPARE	20
--	21	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	23	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	25	SPARE	20 A	1	--	0	0	--	1	20 A	SPARE	26
--	27	SPARE	20 A	1	--		0	0	--	1	20 A	SPARE
--	29	SPARE	20 A	1	--			0	0	1	20 A	SPARE
Total Load:			4.69 kVA	5.33 kVA	4.37 kVA							
Total Amps:			39.53	44.86	36.39							

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Lighting	0.033 kVA	100.00%	0.033 kVA	TOTAL CONNECTED LOAD: 14.39 kVA
Power	14 kVA	100.00%	14 kVA	
Receptacles	0.36 kVA	100.00%	0.36 kVA	TOTAL ESTIMATED DEMAND LOAD: 14.393 kVA
				TOTAL CONNECTED AMPS: 39.95 A
				TOTAL ESTIMATED DEMAND AMPS: 40 A

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

CIRCUIT KEY NOTES:

BIM 360://21102.1001 - VA St Cloud EHRM Infrastructure Upgrades/656-235-B118.M_R01.rvt 3/28/2022 3:45:22 PM

FIELD VERIFICATION NOTES:

- THE HVAC CONTRACTOR SHOULD VISIT THE SITE PRIOR TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID. THE FOLLOWING ITEMS SHALL BE FIELD VERIFIED:
 - EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER EXPLICITLY SHOWN OR NOT.
 - SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
 - SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS AND DIFFUSERS.
 - SIZE AND LOCATION OF EXISTING THERMOSTATIC CONTROL DEVICES.
- 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 THEIR BID AND INCLUDE IN THEIR BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
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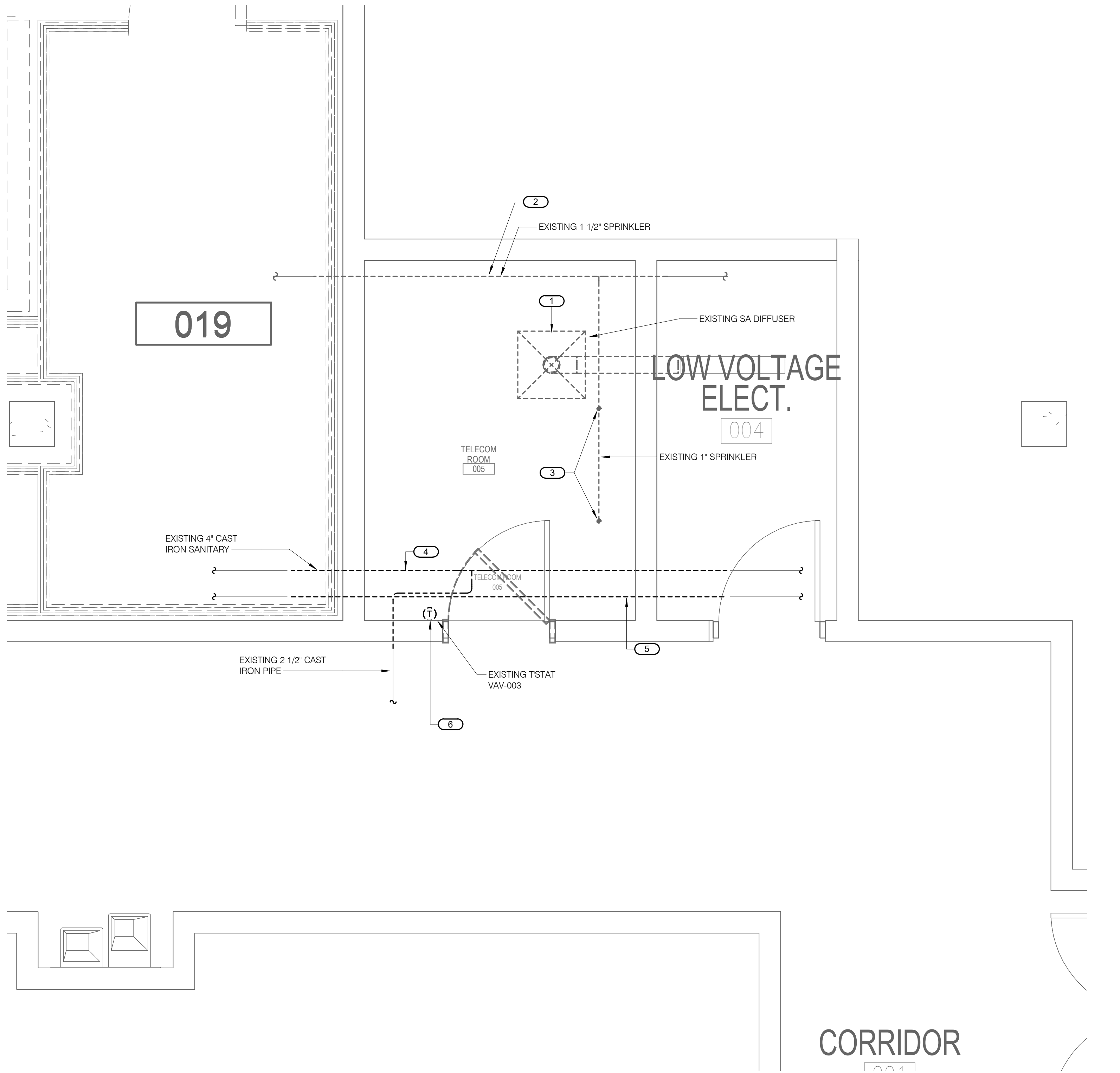
KEYNOTES 1/118-M100:

- REMOVE EXISTING DIFFUSER AND DUCTWORK BACK TO LOCATION SHOWN AND CAP DUCT.
- EXISTING FIRE SPRINKLER LINE TO BE RE-ROUTED.
- EXISTING FIRE SPRINKLER HEAD.
- EXISTING 4" CAST IRON SANITARY PIPE TO BE RE-ROUTED. FIELD VERIFY REQUIREMENTS.
- EXISTING 2-1/2" CAST IRON VENT PIPE TO BE RE-ROUTED. FIELD VERIFY REQUIREMENTS.
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MECHANICAL GENERAL NOTES:

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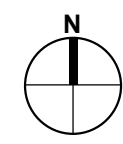
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- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
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1 BASEMENT DEMOLITION - MECHANICAL - TELECOM ROOM 005

1/2" = 1'-0"

0 1' 2' 4'



No	REVISION	DATE
100% CD		03/30

CONSULTANT

AST SES SPECIALIZED ENGINEERING SOLUTIONS

10360 Ellipse 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 DOUGLAS

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

Name: DOUGLAS
Date: 03/30/2022
License Number: MNE-24706

DRAWING TITLE

BASEMENT DEMOLITION - MECHANICAL

PROJECT FILE

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022
PLOT SCALE:
PROJECT NO: 656-21-235
DRAWING NO: 118-M100

BUILDING NO: 118
CHECKED BY: RDL
DRAWN: JCL

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-B118.M_R01.rvt 3/28/2022 3:45:24 PM

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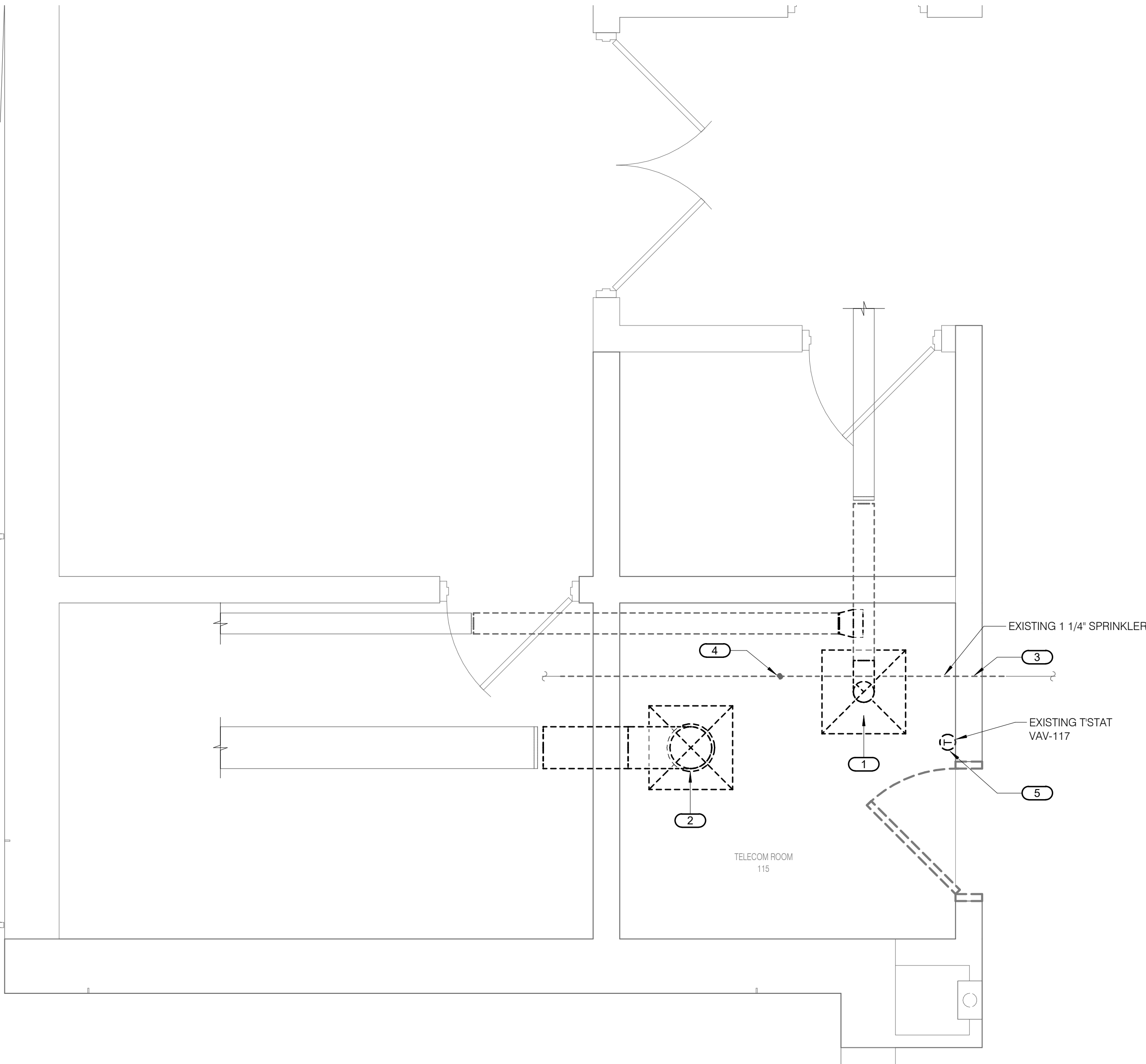
KEYNOTES 1/118-M101:

- EXISTING EXHAUST REGISTER AND DUCTWORK TO BE REMOVED BACK TO LOCATION AS SHOWN AND CAPPED.
- EXISTING SUPPLY AIR REGISTER AND DUCTWORK TO BE REMOVED BACK TO LOCATION AS SHOWN. CAP DUCT.
- EXISTING FIRE SPRINKLER LINE TO BE RE-ROUTED.
- EXISTING FIRE SPRINKLER HEAD TO BE RELOCATED.
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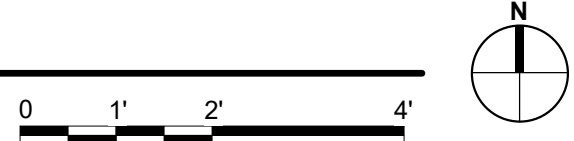
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1 FIRST FLOOR DEMOLITION - MECHANICAL - EXIST RM 115



No	REVISION	DATE
100% CD		03/30

CONSULTANT

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10360 Ellipse Circle
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P 763.412.4000 | F 763.412.4090 | ae-mn.com
Anderson Engineering of Minnesota, LLC | Proj # 16305

STAMP DOUGLAS
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 and a member of the State of Minnesota.
Name: DOUGLAS
Date: 03/30/2022
License Number: MNE-24706

DRAWING TITLE
FIRST FLOOR DEMOLITION - MECHANICAL

PROJECT TITLE EHRM INFRASTRUCTURE UPGRADES	DATE 03/30/2022
BUILDING NO. 118	PLOT SCALE 656-21-235
CHECKED BY RDL	DRAWN BY JCL
LOCATION VA MEDICAL CENTER ST CLOUD, MN 56303	DWG. OF FULLY SPRINKLERED

VA

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

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KEYNOTES 1/118-M200:

- NEW SPLIT SYSTEM AC UNIT.
- REROUTE FIRE SPRINKLER LINE.
- NEW FIRE SPRINKLER HEAD AND ASSOCIATED BRANCH LINE.
- REROUTE 4" CAST IRON SANITARY PIPE AS SHOWN. FIELD VERIFY REQUIREMENTS.
- REROUTE 2-1/2" CAST IRON VENT PIPE AS SHOWN. FIELD VERIFY REQUIREMENTS.
- NEW THERMOSTAT.
- ROUTE REFRIGERANT PIPING TO NEW AIR-COOLED CONDENSING UNIT LOCATED ON ROOF ABOVE HAC ROOM 131.
- ROUTE 1" CONDENSATE DRAIN TO FLOOR DRAIN IN MECHANICAL ROOM 011, APPROXIMATELY 90 FEET NORTH AND 20 FEET EAST. FIELD VERIFY ROUTING.
- RISE REFRIGERANT PIPING UP TO ROOM 131.
- DRIP PAN CONDENSATE PIPE IN TR ROOM. SEE DETAIL FOR REQUIREMENTS.
- NEW AIR COOLED CONDENSING UNIT CU-118-1 ON ROOF ABOVE. PROVIDE UNIT BASE.

MECHANICAL GENERAL NOTES:

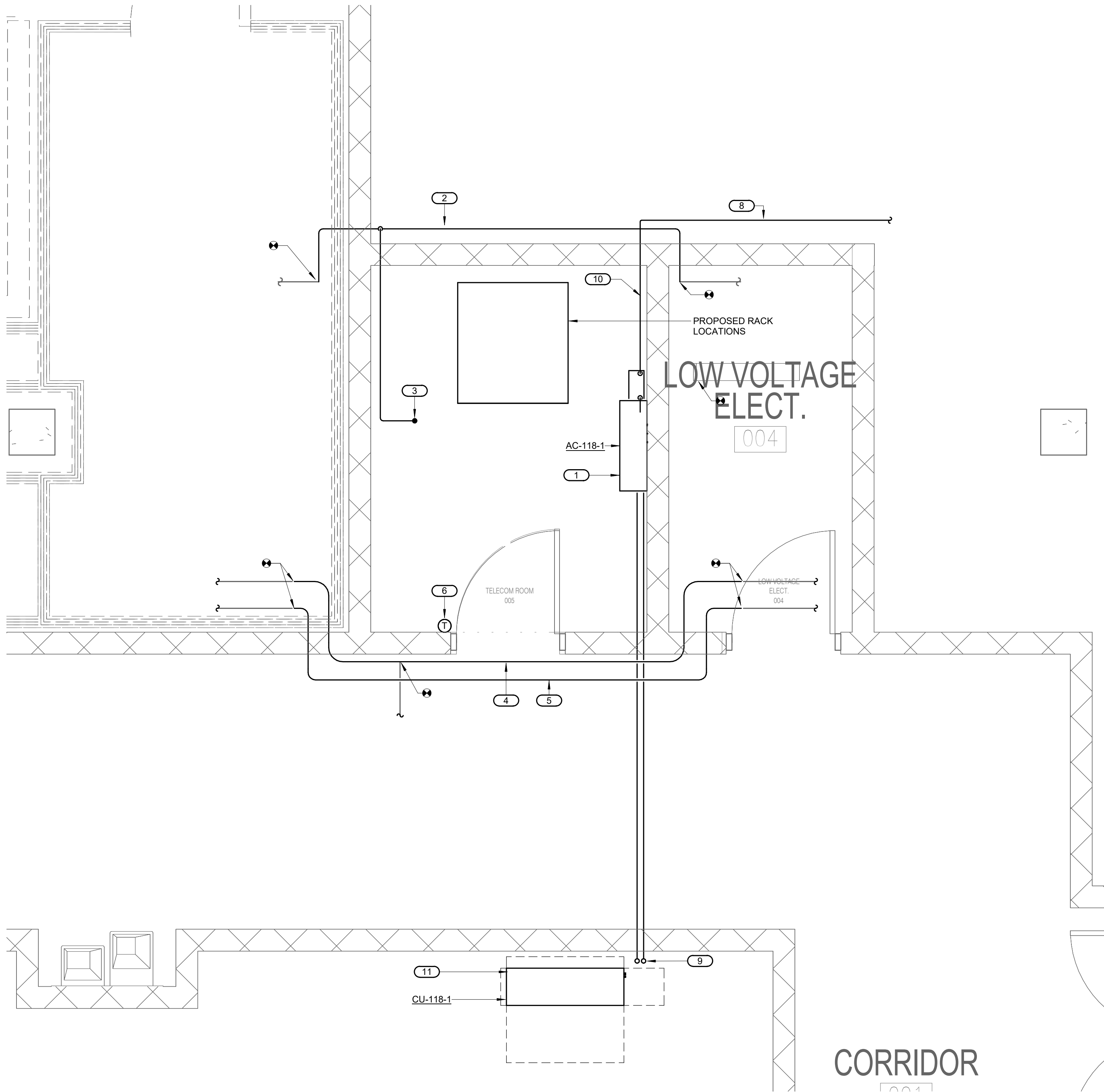
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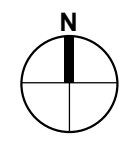
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY COR AND ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE COR AND ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE COR AND ENGINEER OF AFFECTED AREAS PRIOR TO BIDDING.
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- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.



1 BASEMENT FLOOR - MECHANICAL - TELECOM ROOM 005

1/2" = 1'-0"

0 1' 2' 4'



No	REVISION	DATE
100% CD		03/30

CONSULTANT

AST SES SPECIALIZED ENGINEERING SOLUTIONS

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Omaha, NE 68134

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ARCHITECT/ENGINEER OF RECORD

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Anderson Engineering of Minnesota, LLC | Proj # 16305

STAMP DOUGLAS

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: [Signature]
Date: 03/30/2022
License Number: MNE-24706

DRAWING TITLE
BASEMENT FLOOR -
MECHANICAL

PROJECT FILE EHRM INFRASTRUCTURE UPGRADES	DATE 03/30/2022
BUILDING No 118	PLANT SCALE 656-21-235
CHECKED BY RDL	DRAWN BY JCL
LOCATION VA MEDICAL CENTER ST. CLOUD, MN 56303	DWG. NO. 118-M200



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

3/28/2022 3:45:27 PM
BIM 360://21102.001 - VA St Cloud EHRM Infrastructure Upgrades/656-235-B118.M_R01.rvt

FIELD VERIFICATION NOTES:

- THE HVAC CONTRACTOR SHOULD VISIT THE SITE PRIOR TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID. THE FOLLOWING ITEMS SHALL BE FIELD VERIFIED:
 - EXACT PLACEMENT, SIZE, CAPACITY, MANUFACTURER AND CONDITION OF ALL EXISTING HVAC EQUIPMENT WITHIN SCOPE OF WORK, WHETHER EXPLICITLY SHOWN OR NOT.
 - SIZE AND LOCATION OF ALL EXISTING DUCTWORK.
 - SIZE AND LOCATION OF ALL EXISTING GRILLES, REGISTERS AND DIFFUSERS.
 - SIZE AND LOCATION OF EXISTING THERMOSTATIC CONTROL DEVICES.
- 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 THEIR BID AND INCLUDE IN THEIR BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- ANY DISCREPANCIES WHICH MAY AFFECT CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION

KEYNOTES 1/118-M201:

- NEW SPLIT SYSTEM AC UNIT
- RE-ROUTE 1-1/4" FIRE SPRINKLER LINE. FIELD VERIFY ROUTING.
- NEW FIRE SPRINKLER HEAD.
- RE-ROUTE 10x10 EXHAUST DUCT. FIELD VERIFY ROUTING.
- ROUTE REFRIGERANT PIPING TO NEW AIR COOLED CONDENSING UNIT LOCATED ON ROOF ABOVE DECK 117. FIELD VERIFY ROUTING.
- NEW AIR COOLED CONDENSING UNIT CU-118-2 ON ROOF ABOVE.
- NEW THERMOSTAT.
- ROUTE 1" CONDENSATE DRAIN TO MOP SINK IN HAC ROOM 120 LOCATED APPROXIMATELY 40 FEET NORTH.
- PROVIDE NEW CONDENSATE PUMP.

MECHANICAL GENERAL NOTES:

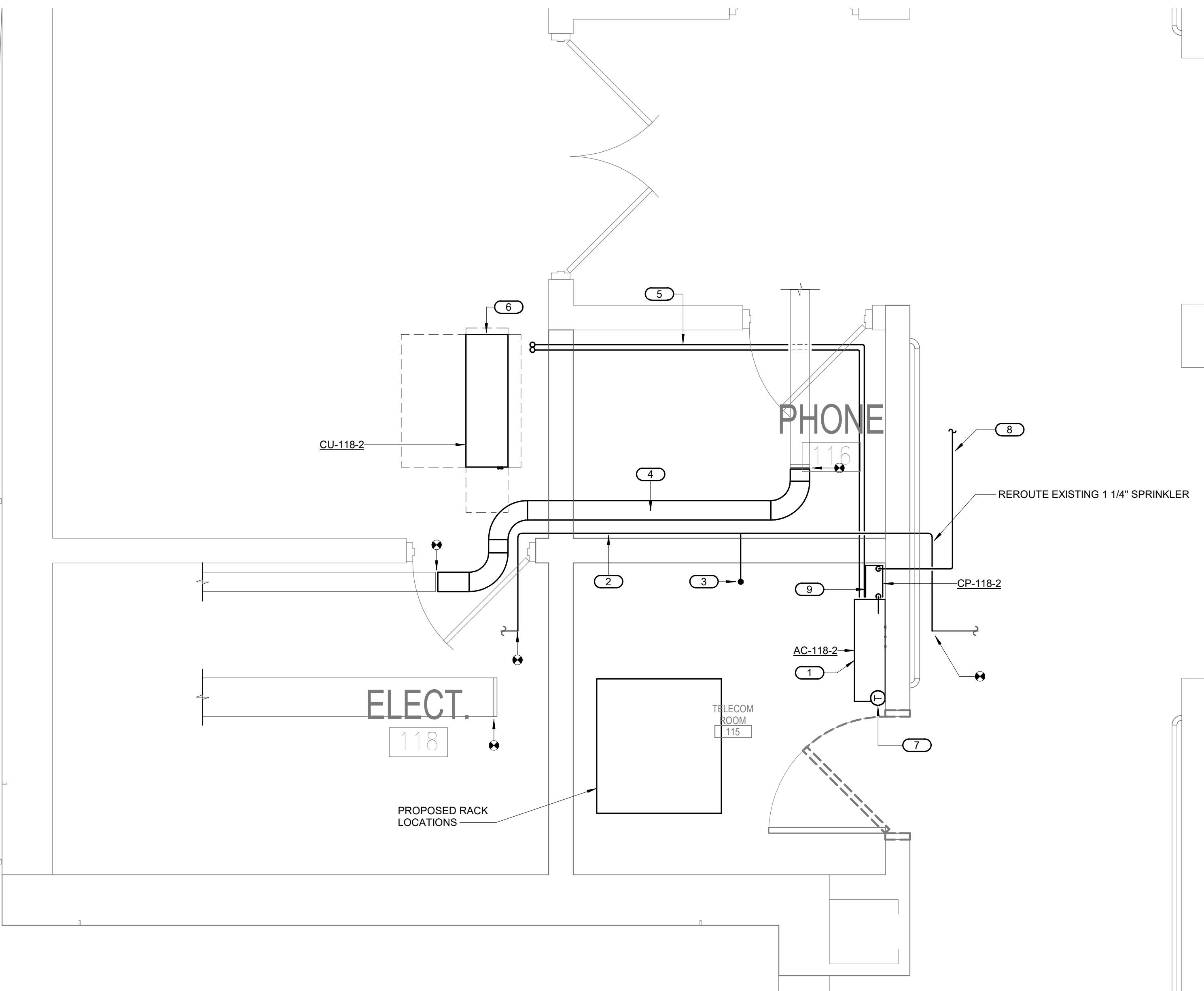
THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES AND COR PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE COR AND THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS. FINAL LOCATIONS TO BE ACCURATELY DESCRIBED IN AS-BUILTS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST, TIME OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO CONTRACT DOCUMENTS, TO INCLUDE BUT NOT LIMITED TO, THE ARCHITECTURAL, REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO THE SATISFACTION OF THE COR TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE COR FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE COR OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE, BOTH NEW AND EXISTING. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES, BOTH NEW AND EXISTING. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 9" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
- CONTRACTOR TO COORDINATE SCHEDULE OF ANY NOISE-PRODUCING WORK SCOPE WITH COR NOT LESS THAN 10 DAYS PRIOR TO COMMENCING WORK.
- ALL CARTS, EQUIPMENT, MATERIAL AND TOOLS AS WELL AS ALL TOOL BAGS/BOXES AND LADDERS ARE TO BE LABELED, CLEARLY IDENTIFYING THE CONTRACTOR/SUBCONTRACTOR NAME AND PROJECT.
- STORAGE OF TOOLS, EQUIPMENT AND MATERIALS IS ONLY AUTHORIZED IN APPROVED LOCATIONS.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY COR AND ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE COR AND ENGINEER PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE COR AND ENGINEER OF AFFECTED AREAS PRIOR TO BIDDING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
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1 FIRST FLOOR - MECHANICAL- EXIST RM 115



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CONSULTANT

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Anderson Engineering of Minnesota, LLC | Proj # 16305

STAMP DOUGLAS
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: DOUGLAS
Date: 03/30/2022
License Number: MNE-24706

DRAWING TITLE
FIRST FLOOR - MECHANICAL

PROJECT FILE
EHRM INFRASTRUCTURE UPGRADES

DATE
03/30/2022

PLOT SCALE
AS SHOWN

PROJECT NO.
656-21-235

DRAWING NO.
118-M201

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