

# BUILDING 116 - 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: 10390 ELLISON CIRCLE  
OMAHA, NE 68134

CONTACT: KRIS BURNHAM  
PHONE: 402-991-5520

MECHANICAL/PLUMBING/FIRE ENGINEER:  
NAME: SPECIALIZED ENGINEERING SOLUTIONS  
ADDRESS: 10390 ELLISON CIRCLE  
OMAHA, NE 68134

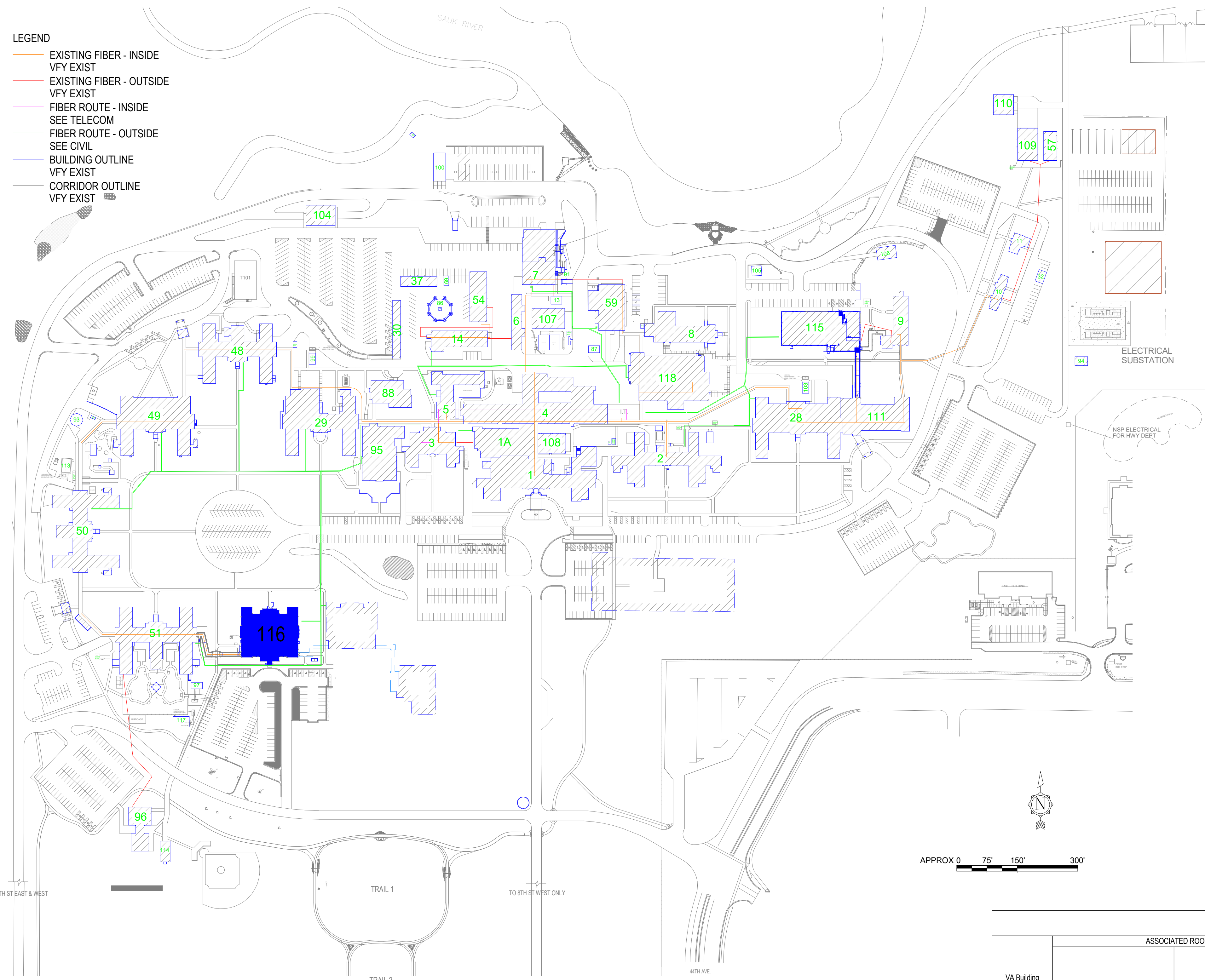
CONTACT: KRIS BURNHAM  
PHONE: 402-991-5520

### 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 116	
SHEET NO.	SHEET TITLE
116-G000	BUILDING 116 COVER SHEET & SHEET INDEX
116-G111	FIRST FLOOR - INFECTION CONTROL & PHASING PLAN
116-A5110	FIRST FLOOR PLANS
116-TD110	FIRST FLOOR PLAN - TELECOM - DEMOLITION
116-TN110	FIRST FLOOR PLAN - TELECOMMUNICATIONS
116-TN210	FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE
116-TN400	ENLARGED PLANS - TELECOMMUNICATIONS
116-E201	FIRST FLOOR - ELECTRICAL
116-E300	ELECTRICAL ENLARGED PLANS
116-M101	FIRST FLOOR DEMOLITION - MECHANICAL
116-M201	FIRST FLOOR REMODEL - MECHANICAL
SEE CAMPUS 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 CLG (STRUC)	REMARKS
FIRST FLOOR	111	TELECOM ROOM	X	X	X	X	X	X	X	X	X	X	61 SF	6.6	9.3	15.00	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
FIRST FLOOR	111	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
FIRST FLOOR	111	TELECOM ROOM	OUTPATIENT MENTAL HEALTH	TYPE C	GROUP 2	CLASS III	WEST	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
FIRST FLOOR	111	TELECOM ROOM		

SEE GENERAL NOTES SHEET FOR DETAIL. MWIP = MEMBRANE WATERPROOFING. MASONRY = FLUID-APPLIED WATERPROOFING. INT = INTERIOR. EXT = EXTERIOR

OPENING SCHEDULE												
VA Building Number	ASSOCIATED ROOMS		OPENING			PANEL INFORMATION			FRAME INFORMATION			COMMENTS
	FROM ROOM NAME	TO ROOM NAME	NUMBER	WIDTH	HEIGHT	PANEL TYPE	2ND PANEL TYPE	PANEL GLAZING	FRAME TYPE	FRAME GLAZING	NON GROUP	
116	TELECOM ROOM	TELECOM ROOM	111	3'-0"	7'-0"	WD-F	NONE	NONE	HMS-1	NONE	HW-3.2	

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NO.	REVISION	DATE

CONSULTANT

**AST** SPECIALIZED ENGINEERING SOLUTIONS

10360 Ellison Circle  
Omaha, NE 68134  
Phone: 402-991-5530  
www.specializedeng.com

ARCHITECT/ENGINEER OF RECORD

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

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

DRAWING TITLE: BUILDING 116 COVER SHEET & SHEET INDEX

PROJECT FILE: EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022

PLOT SCALE: \_\_\_\_\_

PROJECT NO: 656-21-235

BUILDING NO: 116

CHECKED BY: EM

DRAWN BY: EM

SHOWN ON: 116-G000

LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303

FULLY SPRINKLERED

COVER OF: \_\_\_\_\_

**VA**

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

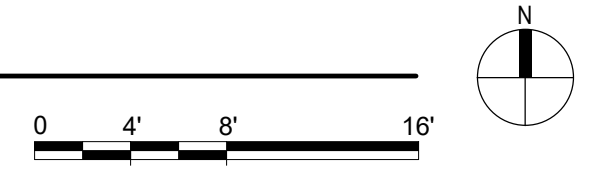


ROOM ICRA SCHEDULE						
LEVEL	ROOM NO.	ROOM NAME	CAI BLDG NAME / FUNCTION	CONSTRUCTION PROJECT ACTIVITY	INFECTION CONTROL RISK GROUP	CONTROL PROCEDURE CLASS
FIRST FLOOR	111	TELECOM ROOM	OUTPATIENT MENTAL HEALTH	TYPE C	GROUP 2	CLASS III

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

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

1 FIRST FLOOR - CONST BARRIER PLAN  
1/8" = 1'-0"



3/29/2022 9:10:12 AM  
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No.	REVISION	DATE

**CONSULTANT**

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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 - INFECTION CONTROL & PHASING PLAN

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

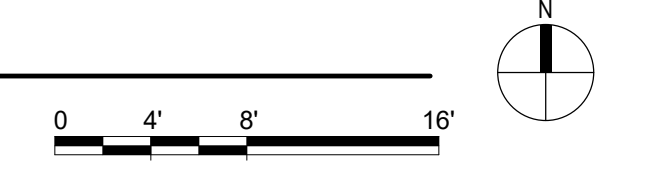
DATE: 03/30/2022  
PLOTSCALE:  
PROJECT NO: 656-21-235  
DRAWING NO: 116-G111

BUILDING NO: 116  
CHECKED BY: EM  
DRAWN BY: BMW  
LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303  
FULLY SPRINKLERED

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



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



**DEMOLITION PLAN KEYED NOTES**

DE1 PREPARE WALL FOR PLYWOOD BACKBOARD INSTALLATION AND EHRM REQUIREMENTS. SEE FLOOR PLAN AND TELECOM DRAWINGS

DE2 REMOVE AND SALVAGE DOOR. PREPARE OPENING FOR DOOR WITH IMPROVED SECURITY. 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 CALK.

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

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

**REFLECTED CEILING PLAN KEYED NOTES**

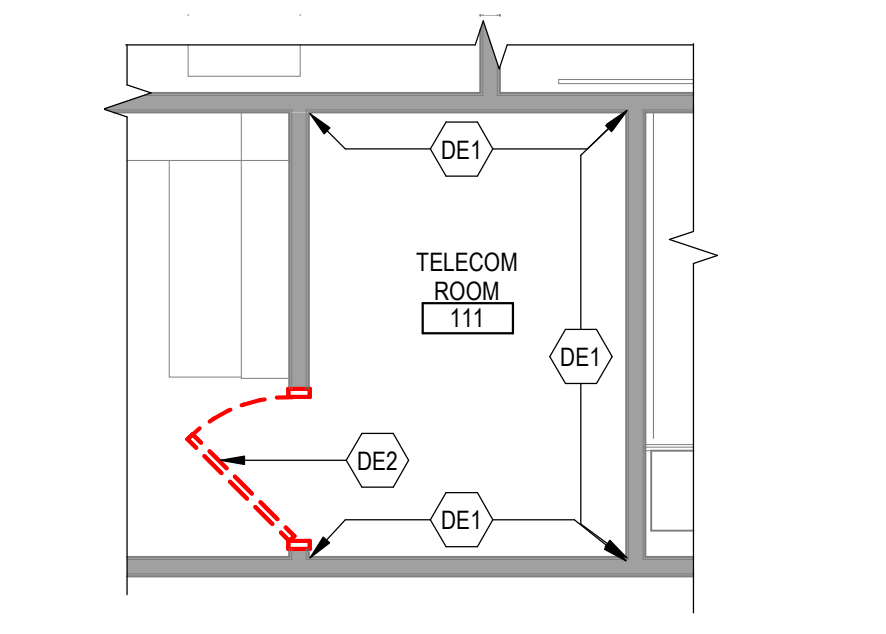
RC1 LED LIGHTING. SEE ELECTRICAL. IN FRONT OF AND BEHIND CABINET ROWS PROVIDE 600 LUMENS IN HORIZONTAL AND 200 LUMENS IN THE VERTICAL AT 3 FT AFF. OPERATED BY MOTION SENSOR PER CABINET ROW OR SECTION.

RC2 OPEN TO STRUCTURAL FLOOR ABOVE

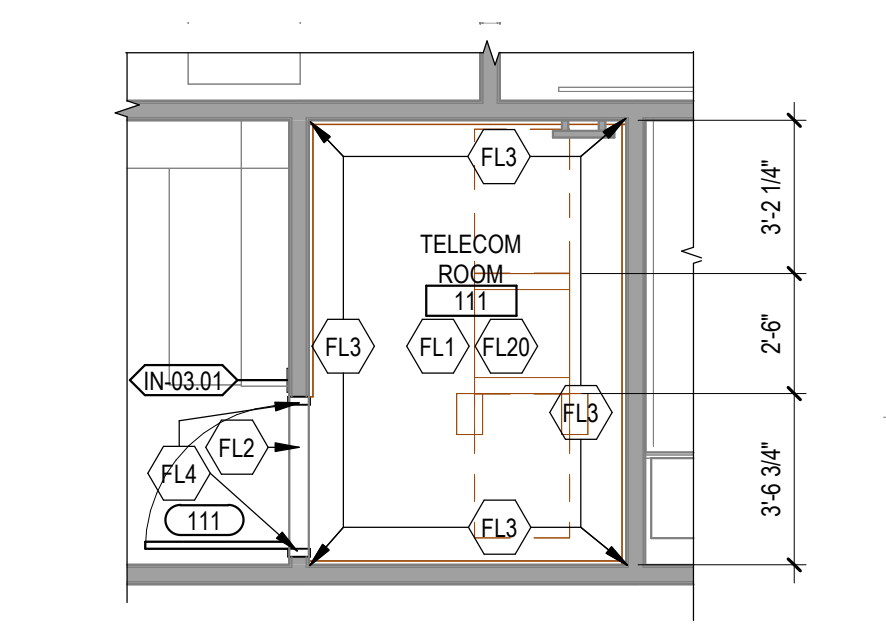
NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**SHEET NOTES**

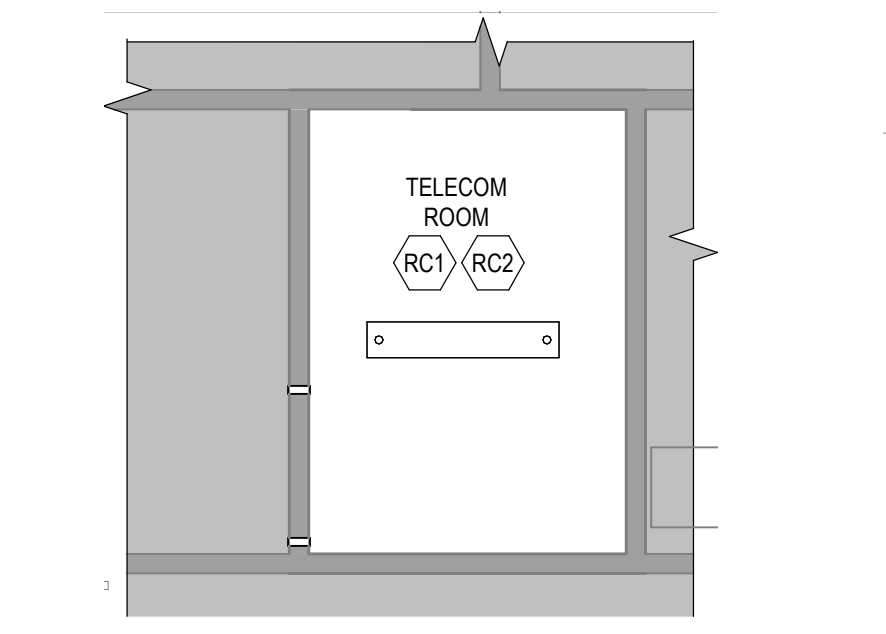
- SEE GENERAL NOTES AND CAMPUS DRAWINGS FOR GENERAL INFORMATION, LIFE SAFETY, ICRA, AND PHASING
- ALL EXISTING CONDITIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION OR CONSTRUCTION. EXISTING CONDITIONS THAT DIFFER FROM THOSE SHOWN MUST BE BROUGHT TO THE ATTENTION OF THE C.O.R. TO INFORM 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 THE VA) WITH WALL MOUNT BRACKET AND CODE REQUIRED SURVIVAL SHALL BE PROVIDED BY THE CONTRACTOR WITHIN TELECOM ROOMS.



**2 DEMOLITION PLAN**  
1/4" = 1'-0"



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



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

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No.	REVISION	DATE

**CONSULTANT**

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**ARCHITECT/ENGINEER OF RECORD**

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Anderson Engineering of Minnesota, LLC | Proj # 16305

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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

**PROJECT TITLE**  
FIRST FLOOR PLANS

**PROJECT FILE**  
EHRM INFRASTRUCTURE UPGRADES

**DATE**  
03/30/2022

**PLOT SCALE**  
656-21-235

**BUILDING No.**  
116

**CHECKED BY**  
EM

**DRAWN BY**  
EM

**PROJECT NO.**  
116-AS110

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

**FULLY SPRINKLERED**

DWG. OF

**VA**

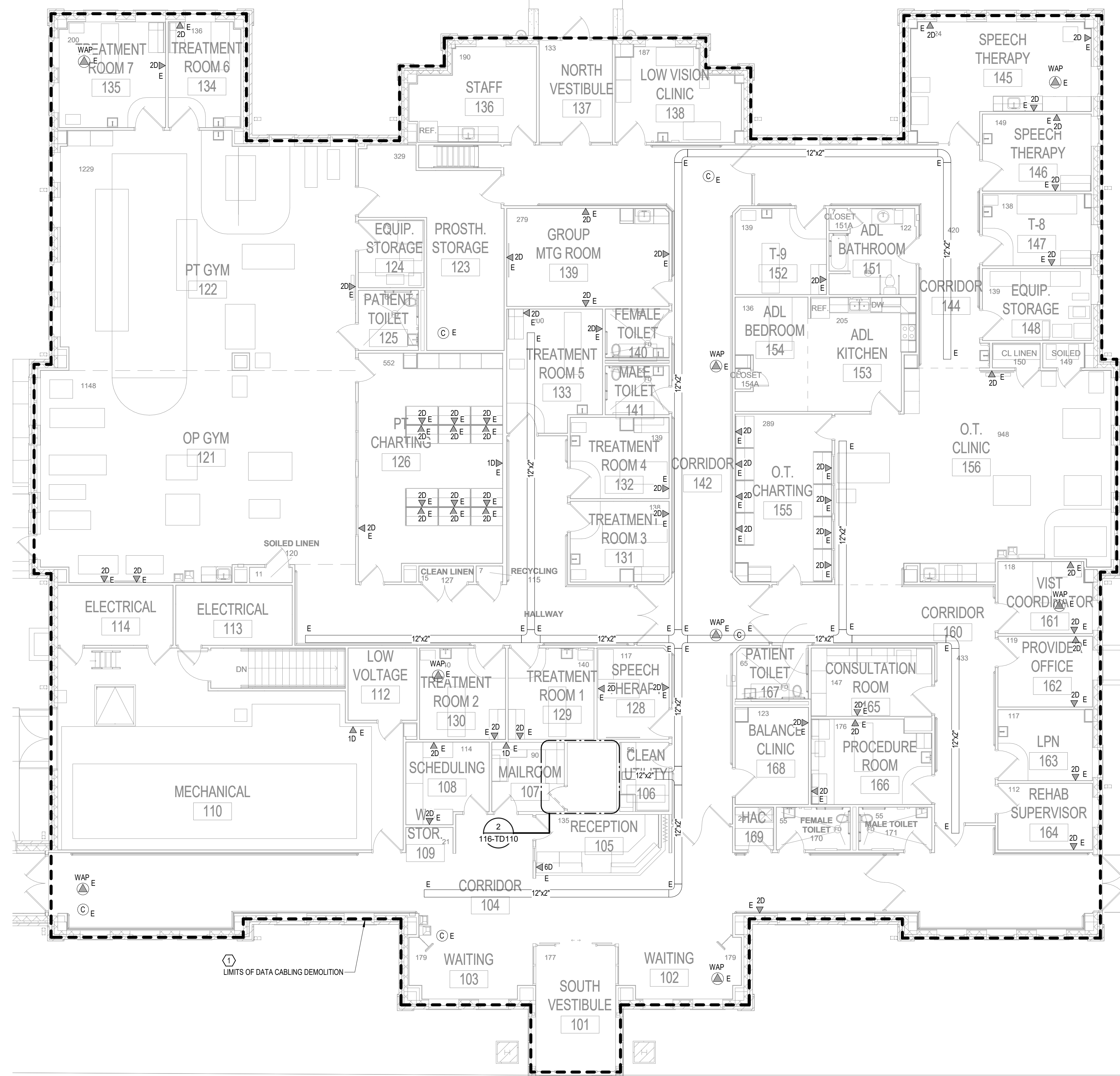
**U.S. Department of Veterans Affairs**  
Veterans Health Administration  
St. Cloud VA Health Care System

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

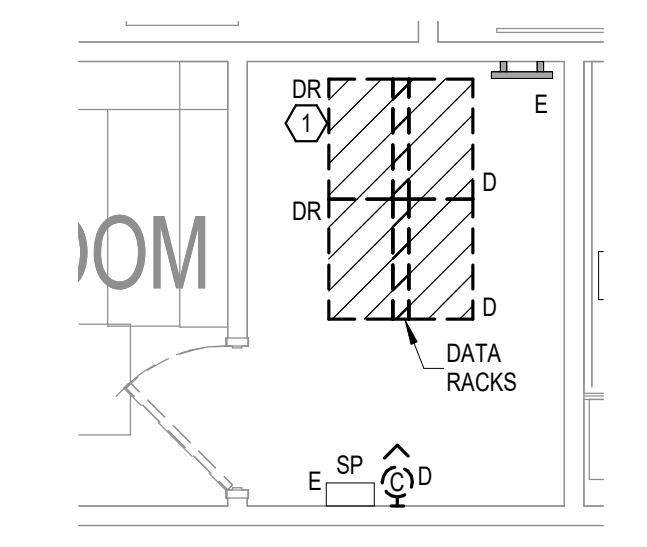
**SHEET NOTES:**  
 1. EXISTING TELECOMMUNICATIONS CAGE AND RACK SHALL BE INCLUDED WITHIN THE SCOPE OF DEMOLITION. EXISTING CABLES AND ASSOCIATED OUTLETS SHALL BE REMOVED AND REPLACED 1 FOR 1 AND REFER FROM DISTRIBUTION EQUIPMENT LOCATED WITHIN THE NEW TELECOMMUNICATIONS ROOM. REFER TO GENERAL CABLING 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.

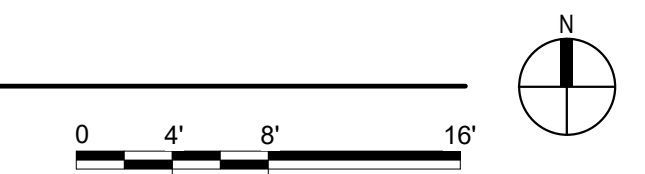
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 DATA (CAT6a): 114  
 DATA (CAT5): 0  
 DATA (CAT3): 0  
 CABLE RELOCATION COUNT  
 DATA (CAT6): 0  
 DATA (CAT6a): 0  
 DATA (CAT5): 0  
 DATA (CAT3): 0  
 EXISTING CABLE TO REMAIN  
 DATA (CAT6): 0  
 DATA (CAT6a): 0  
 DATA (CAT5): 0  
 DATA (CAT3): 0  
 FINAL CABLE COUNT  
 DATA (CAT6): 0  
 DATA (CAT6a): 0  
 DATA (CAT5): 0  
 DATA (CAT3): 0



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



2 ENLARGED PLAN - EXIST RM 111 - TELECOM - DEMO  
 1/4" = 1'-0"



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**ANDERSON**  
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**STAMP**  
**Bicsi** REGISTERED COMMUNICATIONS DISTRIBUTION  
 Nathan Timm BICSI ID # 346555 Expires 12-31-24  
 Nathan M. Timm

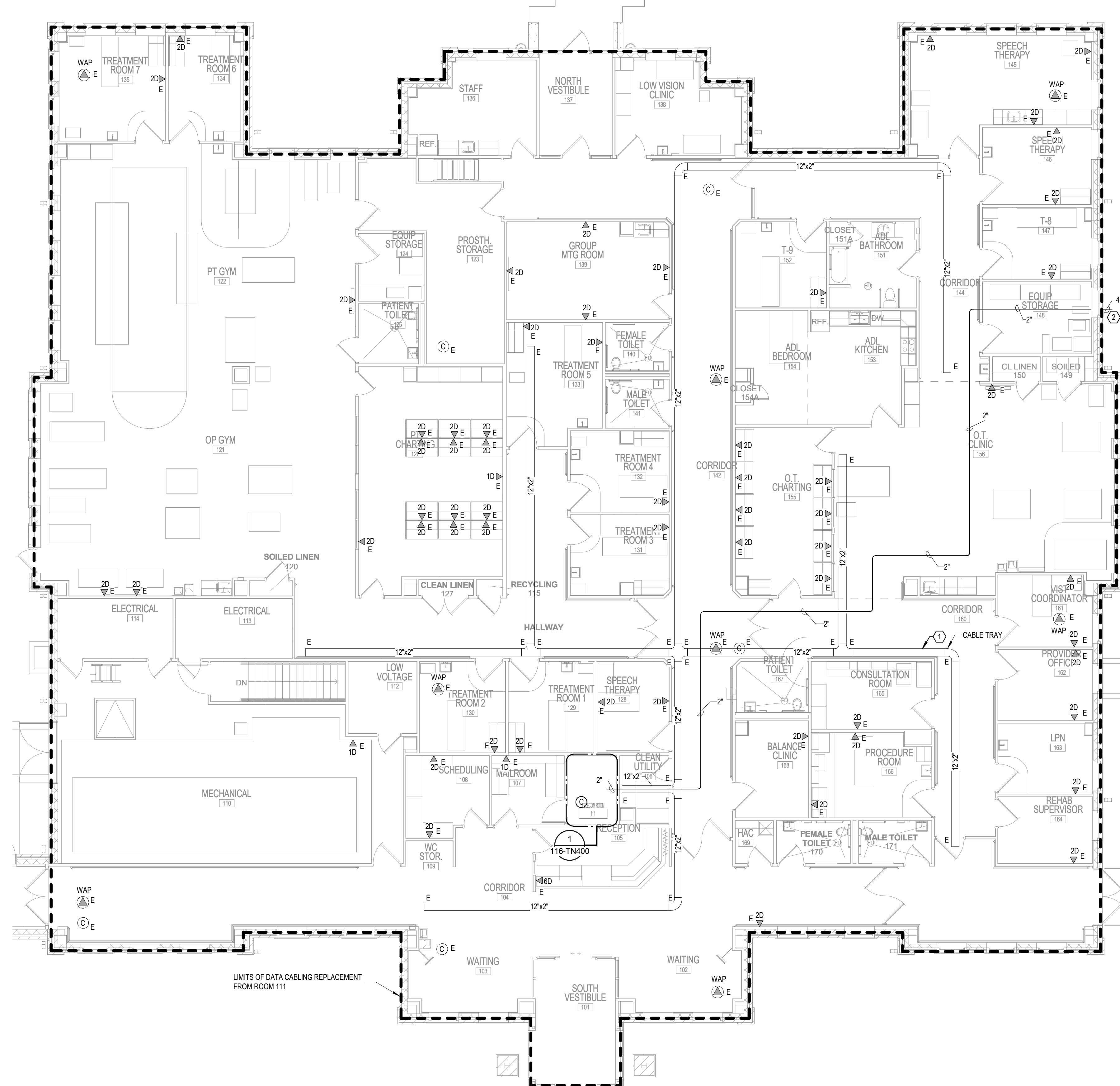
**DRAWING TITLE**  
 FIRST FLOOR PLAN - TELECOM - DEMOLITION

**PROJECT FILE**  
 EHRM INFRASTRUCTURE UPGRADES  
 DATE: 03/30/2022  
 DRAWN BY: KSB  
 CHECKED BY: SSK  
 PROJECT NO: 656-21-235  
 SHEET NO: 116-TD110  
 LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303  
 FULLY SPRINKLERED  
 DWG. OF

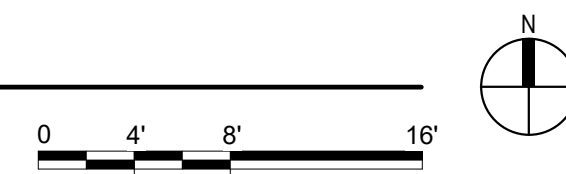
**VA** U.S. Department of Veterans Affairs  
 Veterans Health Administration  
 St. Cloud VA Health Care System

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

**SHEET NOTES:**  
 1. CONTRACTOR TO PROVIDE NEW WIRE BASKET OF EQUAL SIZE AND DISTANCE, EITHER BESIDE OR BELOW THE EXISTING CABLE TRAY. TO MATCH THE EXISTING TELECOM CABLE TRAY. NEW HORIZONTAL CABLE, NEW COPPER BACKBONE, AND S SIDE FIBER ARE TO BE RUN IN THE NEW WIRE BASKET.  
 2. PROVIDE JUNCTION BOX TO CONNECT FIBER CONDUIT ENTRY TO EXTEND CONDUIT PATHWAY TO THE NEW TELECOM ROOM.



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



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No.	REVISION	DATE

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**STAMP**

REGISTERED COMMUNICATIONS DISTRIBUTION  
 Nathan Timm  
 BICSI ID # 346555  
 Expires 12-31-24  
 Nathan M. Timm

**DRAWING TITLE**  
 FIRST FLOOR PLAN - TELECOMMUNICATIONS

<b>PROJECT FILE</b> EHRM INFRASTRUCTURE UPGRADES	<b>DATE</b> 03/30/2022
<b>BUILDING No.</b> 116	<b>CHECKED BY</b> KSB
<b>DESIGNER</b> SSK	<b>DRAWN BY</b> SSK
<b>PROJECT No.</b> 656-21-235	<b>DATE</b> 03/30/2022
<b>LOCATION</b> VA MEDICAL CENTER ST. CLOUD, MN 56303	<b>PROJECT No.</b> 116-TN110
<b>SCALE</b> FULLY SPRINGLINED	<b>DWG. OF</b>

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

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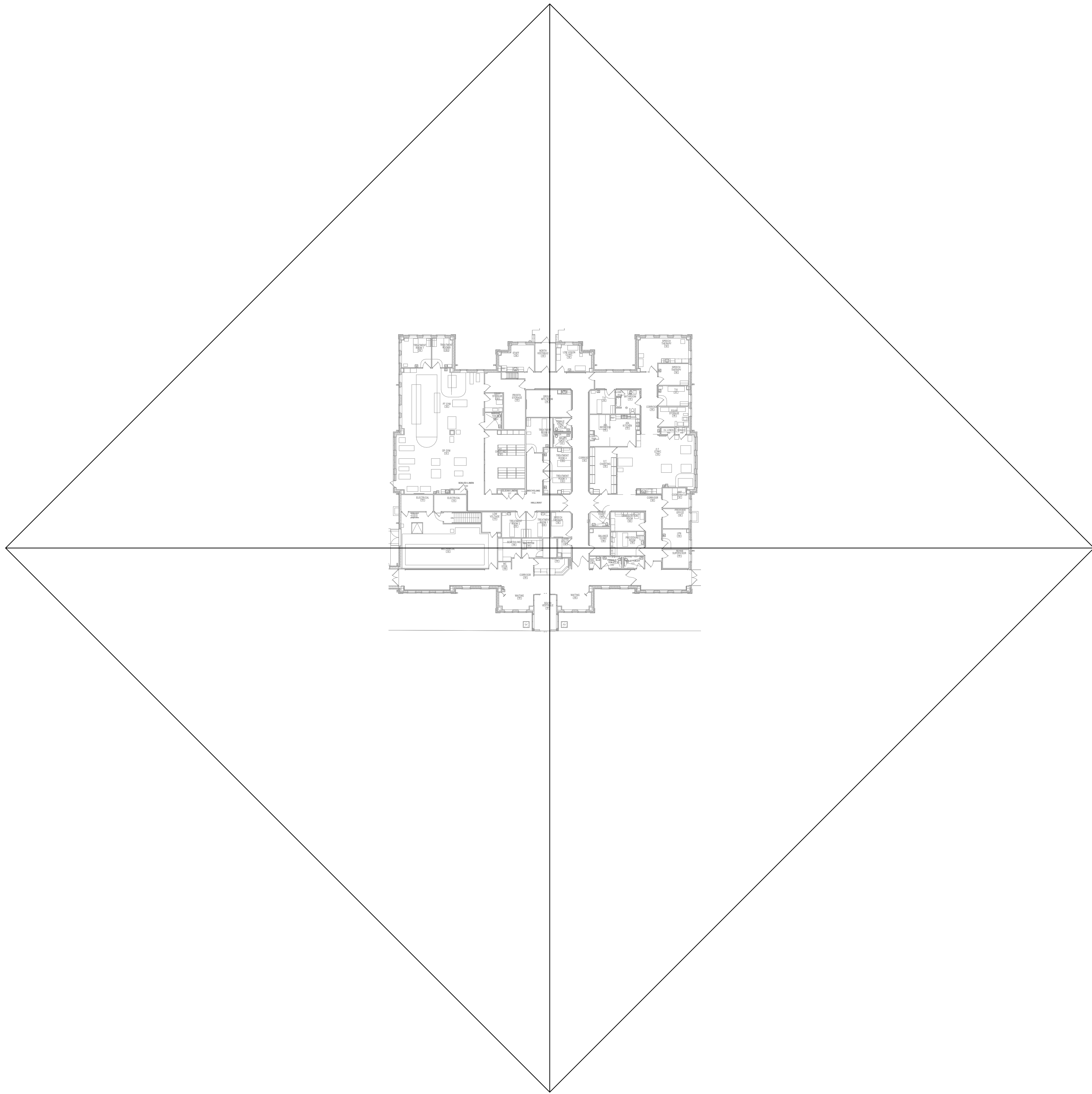
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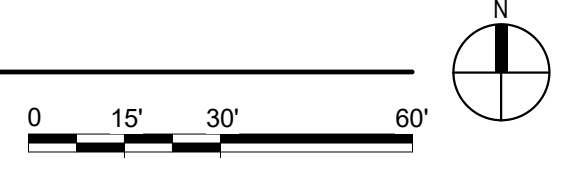
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1 FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE  
1" = 30'-0"



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No.	REVISION	DATE

CONSULTANT



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

DRAWING TITLE

FIRST FLOOR PLAN - TELECOM - CABLE DISTANCE

PROJECT FILE

**EHRM INFRASTRUCTURE UPGRADES**

DATE: 03/30/2022  
PLOT SCALE:  
PROJECT NO: 656-21-235  
DRAWING NO: 116-TN210

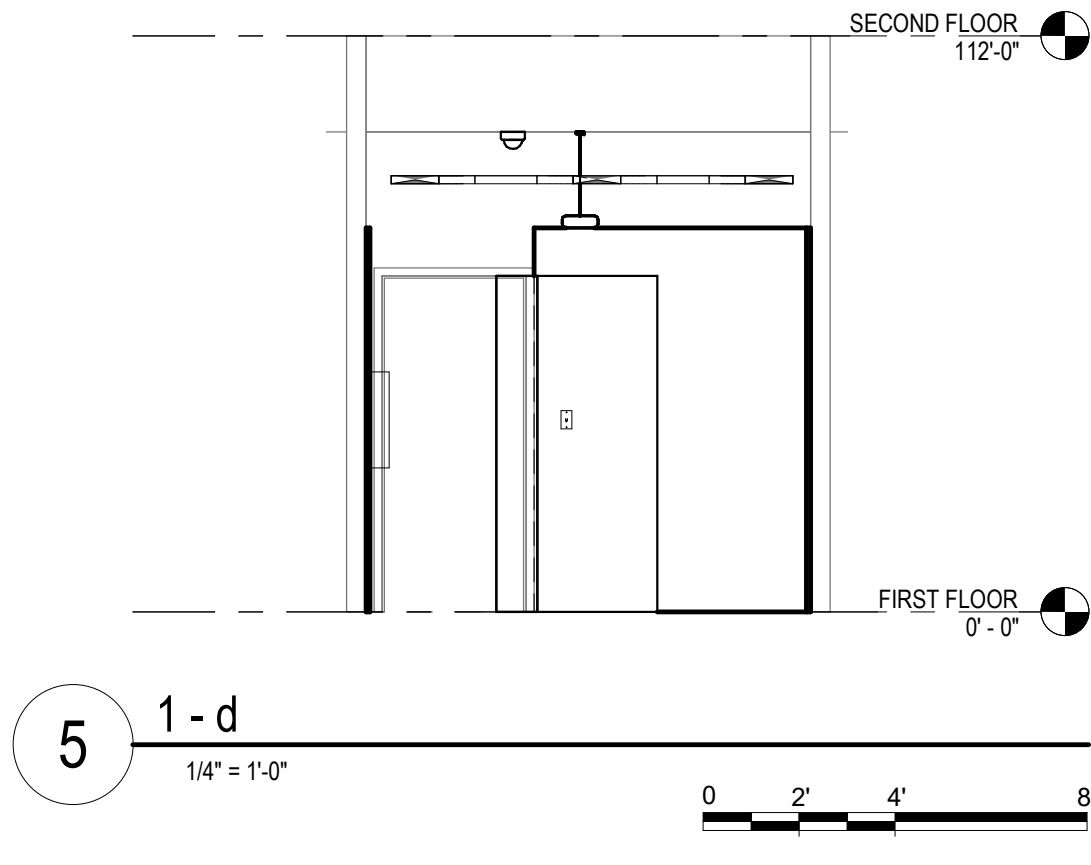
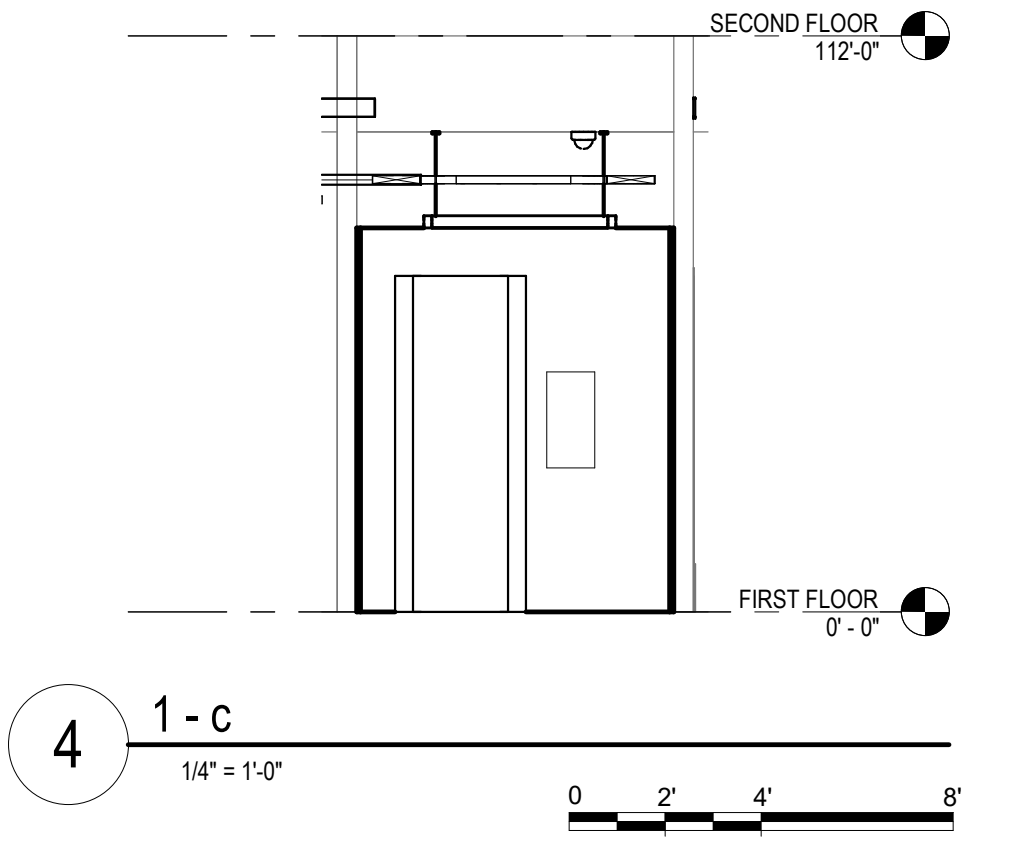
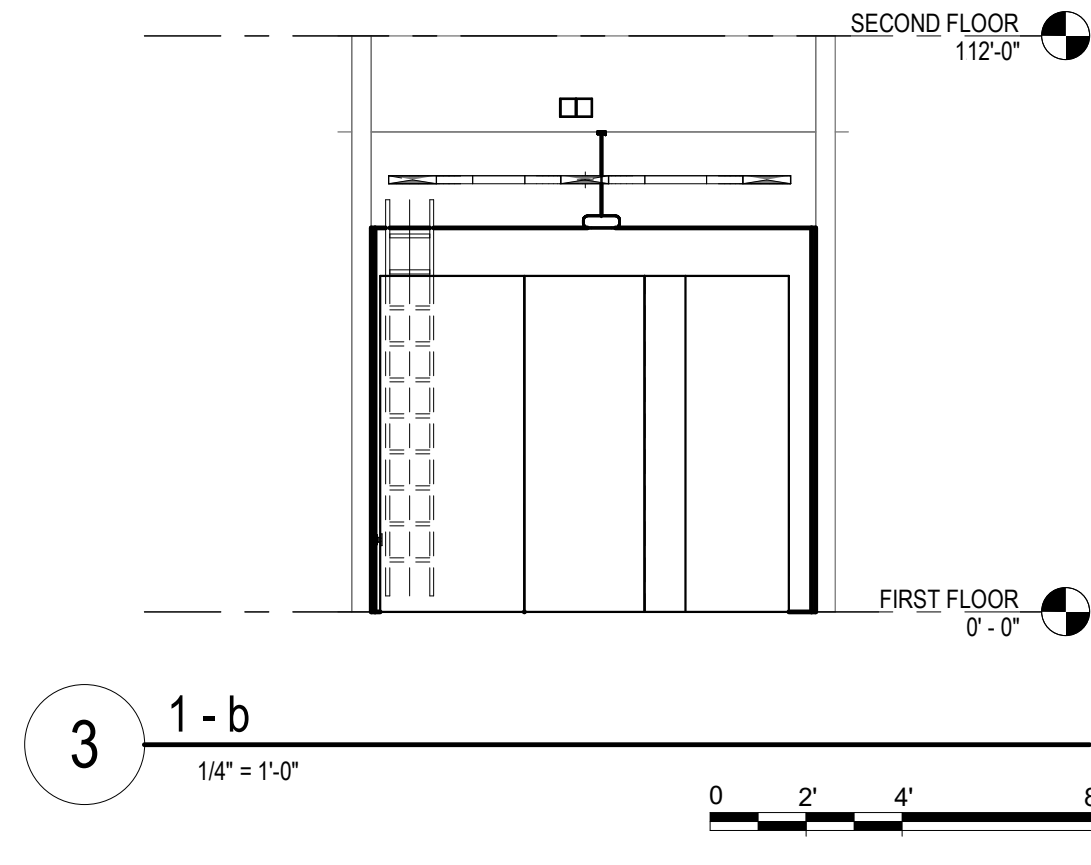
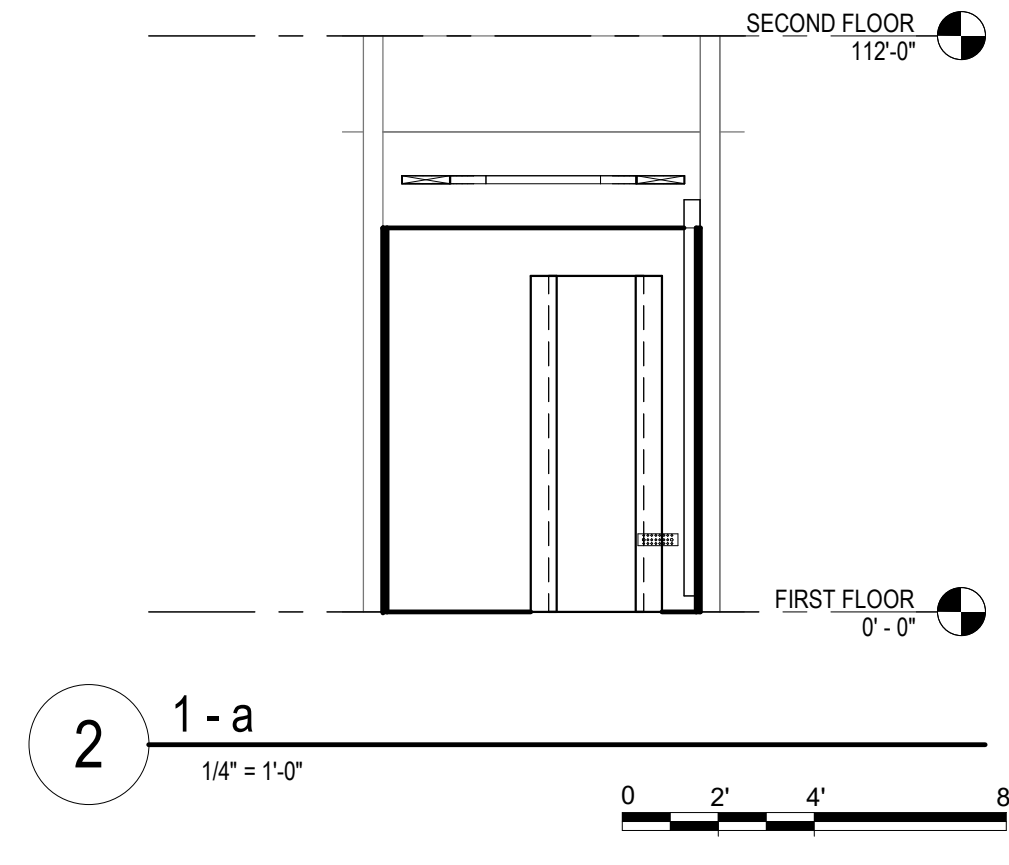
BUILDING No: 116  
CHECKED BY: KSB  
DRAWN BY: SSK

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

3/28/2022 7:30:58 AM



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

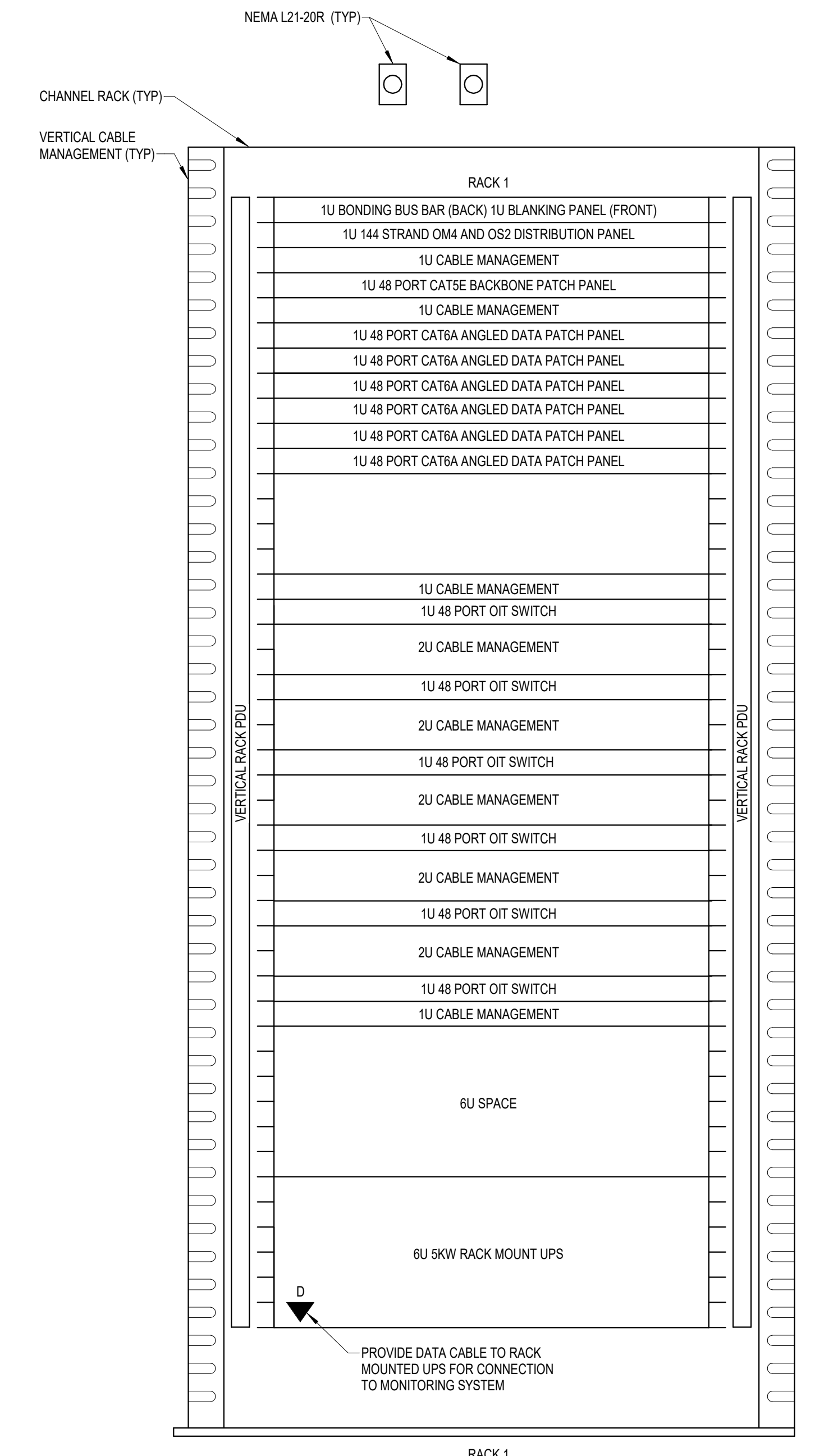
**CABLING NOTE:**  
 CABLING NOTES  
 A. THE EXISTING CABLE COUNT ARE THE CABLES CURRENTLY PRESENT IN THE SPACE. THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT.

1. ROOM 111  
 EXISTING CABLE COUNT  
 DATA (CAT5): 0  
 DATA (CAT6): 114  
 DATA (CAT3): 0  
 DATA (CAT5): 0

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

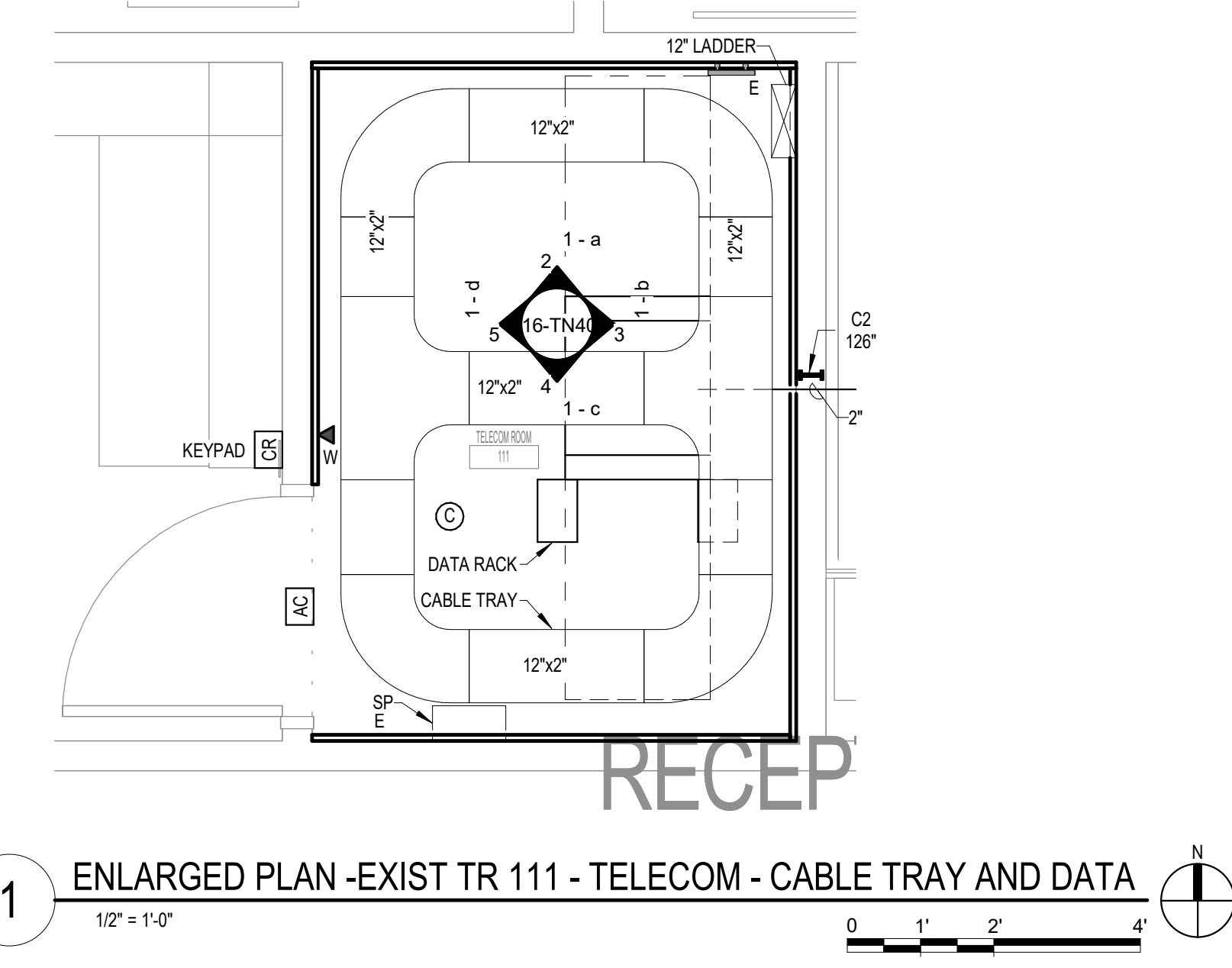
EXISTING CABLE TO REMAIN  
 DATA (CAT5): 0  
 DATA (CAT6): 0  
 DATA (CAT3): 0  
 DATA (CAT5): 0

FINAL CABLE COUNT  
 DATA (CAT6): 114  
 DATA (CAT5): 0



- 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 OWNERS 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' PUNCH-DOWN COPPER BACKBONES ON RACK MOUNT PATCH PANELS. TERMINATE ONE (1) PAIR PER PATCH PANEL PORT.

**6 COMMUNICATIONS - TYPICAL ONE RACK ELEVATION WITH RACK MOUNT UPS - EXIST TR 111**  
 NOT TO SCALE



**1 ENLARGED PLAN - EXIST TR 111 - TELECOM - CABLE TRAY AND DATA**  
 1/2" = 1'-0"

No.	REVISION	DATE

**CONSULTANT**

**AST SES** SPECIALIZED ENGINEERING SOLUTIONS

10360 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**

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

**DRAWING TITLE**

ENLARGED PLANS - TELECOMMUNICATIONS

**PROJECT FILE**

EHM INFRASTRUCTURE UPGRADES

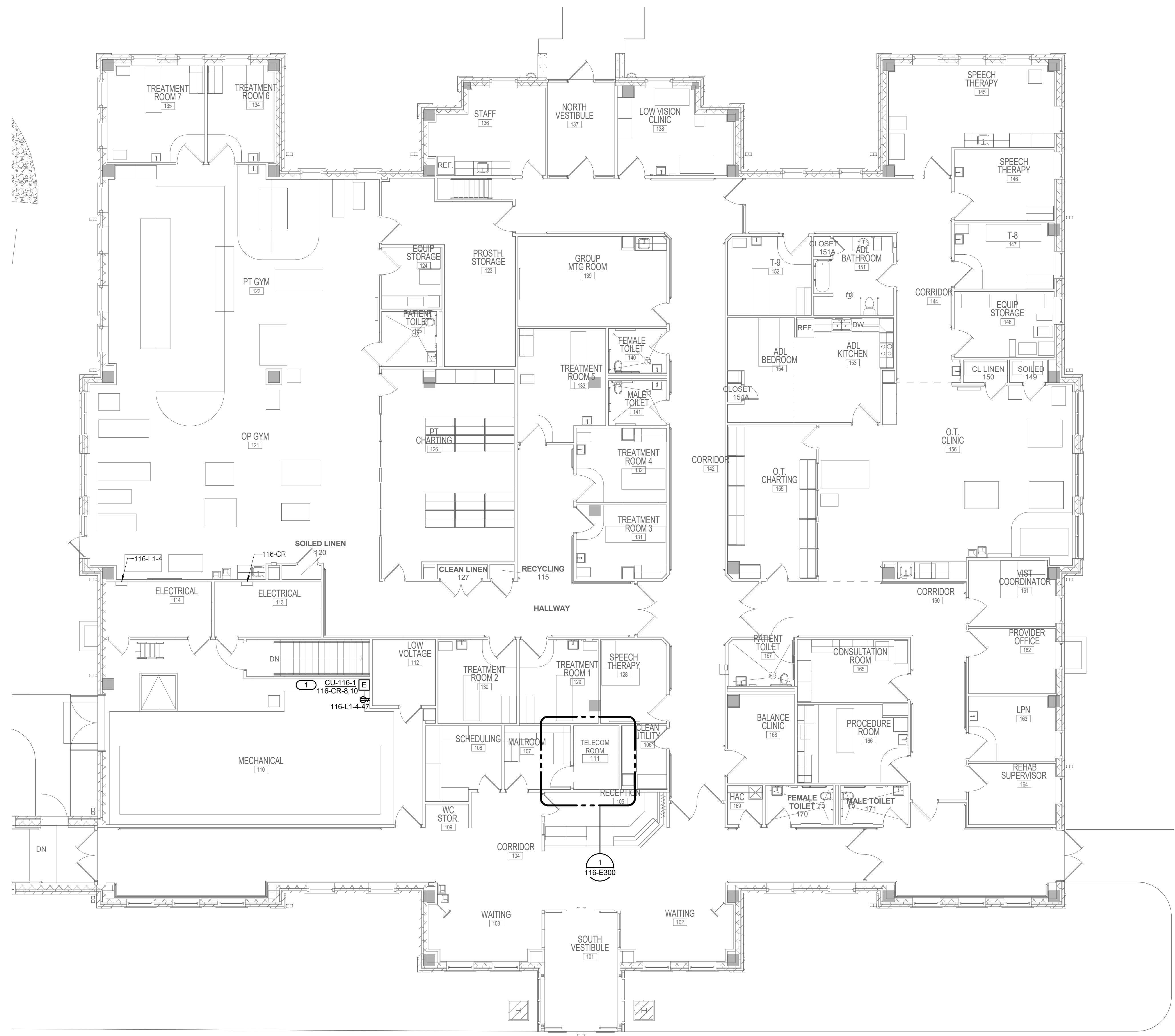
DATE: 03/30/2022  
 PLOT SCALE: 1/2" = 1'-0"  
 PROJECT NO: 656-21-235  
 DRAWN BY: SSK  
 CHECKED BY: KSB  
 BUILDING NO: 116  
 LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303

**VA**

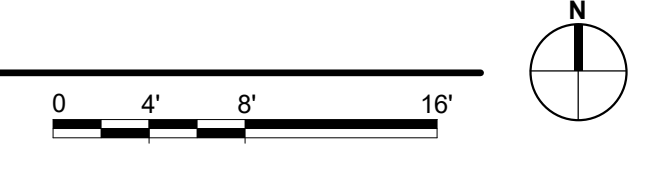
**U.S. Department of Veterans Affairs**  
 Veterans Health Administration  
 St. Cloud VA Health Care System

**KEYNOTES:** C #

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



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



3/28/2022 12:51:42 PM BIM 360://1102.001 - VA St. Cloud EHRM Infrastructure Upgrades/656-235.B116.E\_P01.rvt

No.	REVISION	DATE
100% CD		03/30

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Anderson Engineering of Minnesota, LLC | Proj # 16305

**STAMP**

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: MN# 53095

**DRAWING TITLE**

FIRST FLOOR - ELECTRICAL

<b>PROJECT TITLE</b>	<b>DATE</b>
EHRM INFRASTRUCTURE UPGRADES	03/30/2022
<b>BUILDING No.</b>	<b>PROJECT No.</b>
116	656-21-235
<b>CHECKED BY</b>	<b>DRAWN BY</b>
TBD	GJL
<b>DRAWING No.</b>	<b>DATE</b>
116-E201	
<b>LOCATION</b>	<b>STATUS</b>
VA MEDICAL CENTER ST. CLOUD, MN 56303	FULLY SPRING/RELEAS

**VA**

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



A

B

C

D

E

F

3/28/2022 12:51:42 PM


No.	REVISION	DATE
100% CD		03/30

**CONSULTANT**



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Omaha, NE 68134  
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Name: *[Signature]*  
Date: 03/30/2022  
License Number: MN# 53095

**DRAWING TITLE**  
ELECTRICAL ENLARGED PLANS

**PROJECT TITLE**  
EHRM INFRASTRUCTURE UPGRADES

**DATE**  
03/30/2022

**PLOT SCALE**  
AS SHOWN

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

**BUILDING No.**  
116

**CHECKED BY**  
TBD

**DRAWN**  
GJL

**DRAWING NO.**  
116-E300

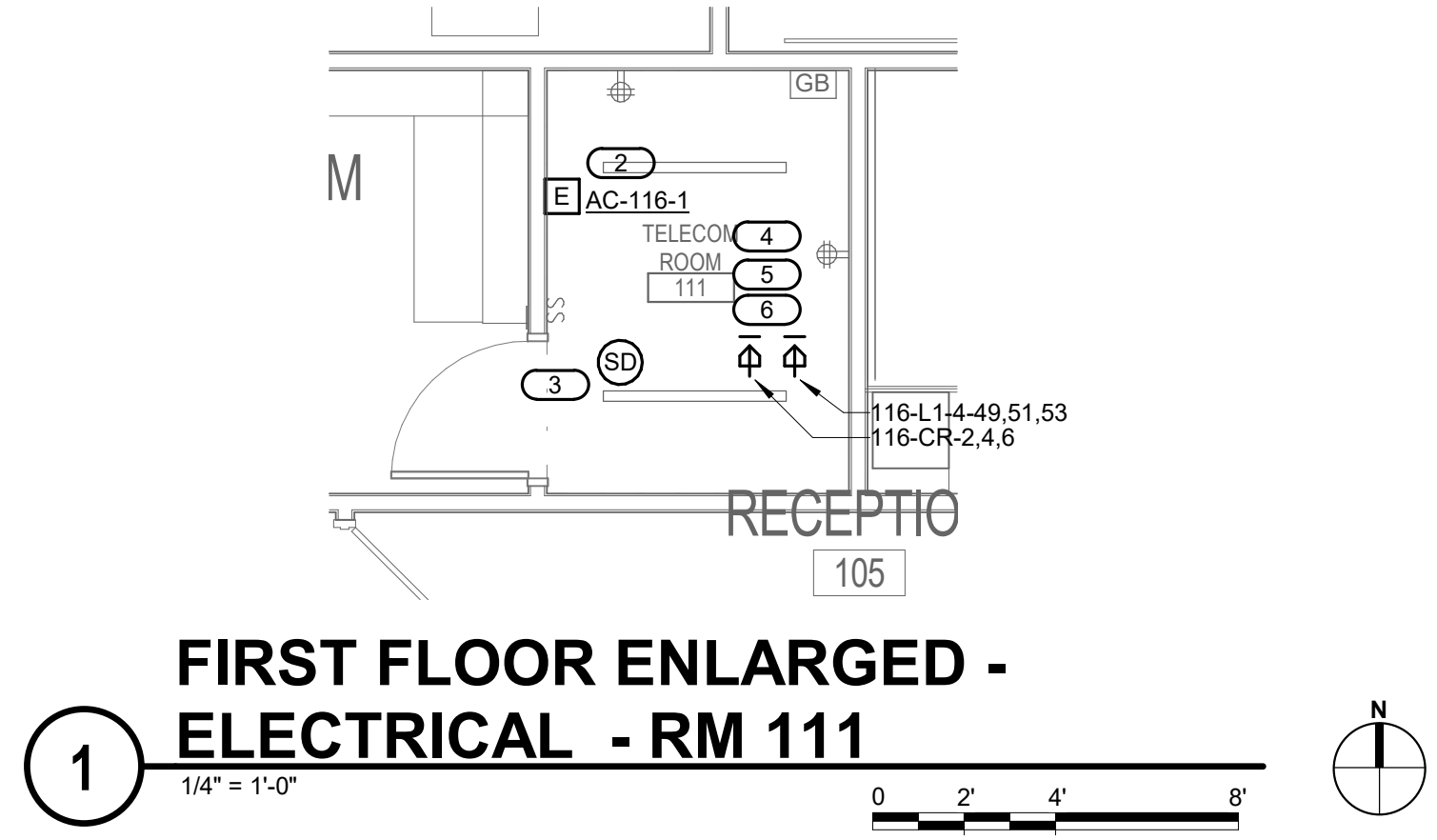
**LOCATION**  
VA MEDICAL CENTER  
ST. CLOUD, MN 56303

**FULLY SPRINKLERED**

**DWG. OF**




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



**EXISTING PANEL 116-CR**

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

KEY	CTK NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE			A	B	C	WIRE SIZE	OCPD AMPS	LOAD DESCRIPTION	CTK NO.	KEY
				P	H	N								
	1						1.67	1.67			3 30 A	L21-30R	2	
	3												4	
	5								1.67				6	
	7						1				2 20 A	CU-116-1	8	
	9							1					10	
	11												12	
	13												14	
	15												16	
	17												18	
	19												20	
	21												22	
	23												24	
	25												26	
	27												28	
	29												30	
	31												32	
	33												34	
	35												36	
	37												38	
	39												40	
	41												42	
<b>Total Load:</b>			2.67 kVA	2.67 kVA	1.67 kVA									
<b>Total Amps:</b>			23.50	23.50	13.89									

**LOAD SUMMARY**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Power	7 kVA	100.00%	7 kVA	TOTAL CONNECTED LOAD: 7.00 kVA
				TOTAL ESTIMATED DEMAND LOAD: 7 kVA
				TOTAL CONNECTED AMPS: 19.43 A
				TOTAL ESTIMATED DEMAND AMPS: 19.4 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:**

**SHEET NOTES:**

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

**KEYNOTES:**

- DISCONNECT AND REMOVE LIGHTS AND RECEPTACLES IN AREA OF NEW IT ROOM. MAINTAIN CIRCUIT CONTINUITY TO ADJOINING SPACES.
- INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT. COORDINATE EXACT LOCATION WITH M.C.
- CONNECT SMOKE DETECTOR TO NEAREST EXISTING SLC.
- COORDINATE FINAL LOCATION OF RECEPTACLE L21-20R WITH TELECOM CONTRACTOR. PROVIDE 3/4\"/>

**EXISTING PANEL 116-L1-4**

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

KEY	CTK NO.	LOAD DESCRIPTION	OCPD AMPS	WIRE SIZE			A	B	C	WIRE SIZE	OCPD AMPS	LOAD DESCRIPTION	CTK NO.	KEY
				P	H	N								
	1	SPARE	20 A	3			0					1	SPARE	2
	3							0				1	SPARE	4
	5								0			1	SPARE	6
	7	SPARE	20 A	3			0					1	SPARE	8
	9							0				1	SPARE	10
	11								0			1	SPARE	12
	13	SPARE	20 A	3			0					1	SPARE	14
	15							0				1	SPARE	16
	17								0			1	SPARE	18
	19	SPACE										1	SPARE	20
	21	SPACE										1	SPARE	22
	23	SPACE										1	SPARE	24
	25	SPACE										1	SPARE	26
	27	SPACE										1	SPARE	28
	29	SPACE										1	SPARE	30
	31	SPACE										1	SPARE	32
	33	SPACE										1	SPARE	34
	35	SPACE										1	SPARE	36
	37	SPACE									3 20 A	SPARE	38	
	39	SPACE						0					40	
	41	SPACE							0				42	
	43	SPACE									1 20 A	ADH TEMP SERVICE	44	
	45	SPACE											46	
	47	WP OF RECEPTACLE	20 A	1					0.18			1	SPACE	48
	49	L21-30R	30 A	3			1.67					1	SPACE	50
	51							1.67				1	SPACE	52
	53								1.67			1	SPACE	54
<b>Total Load:</b>			1.67 kVA	1.67 kVA	1.85 kVA									
<b>Total Amps:</b>			13.89	13.89	15.39									

**LOAD SUMMARY**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Power	5 kVA	100.00%	5 kVA	TOTAL CONNECTED LOAD: 5.18 kVA
Receptacles	0.18 kVA	100.00%	0.18 kVA	TOTAL ESTIMATED DEMAND LOAD: 5.18 kVA
				TOTAL CONNECTED AMPS: 14.36 A
				TOTAL ESTIMATED DEMAND AMPS: 14.4 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:**

**FIELD VERIFICATION NOTES**

- THE HVAC CONTRACTOR SHOULD VISIT THE SITE PRIOR TO BID 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.
  - SIZE AND LOCATION OF EXISTING PLUMBING AND HYDRONIC PIPING.
- 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.

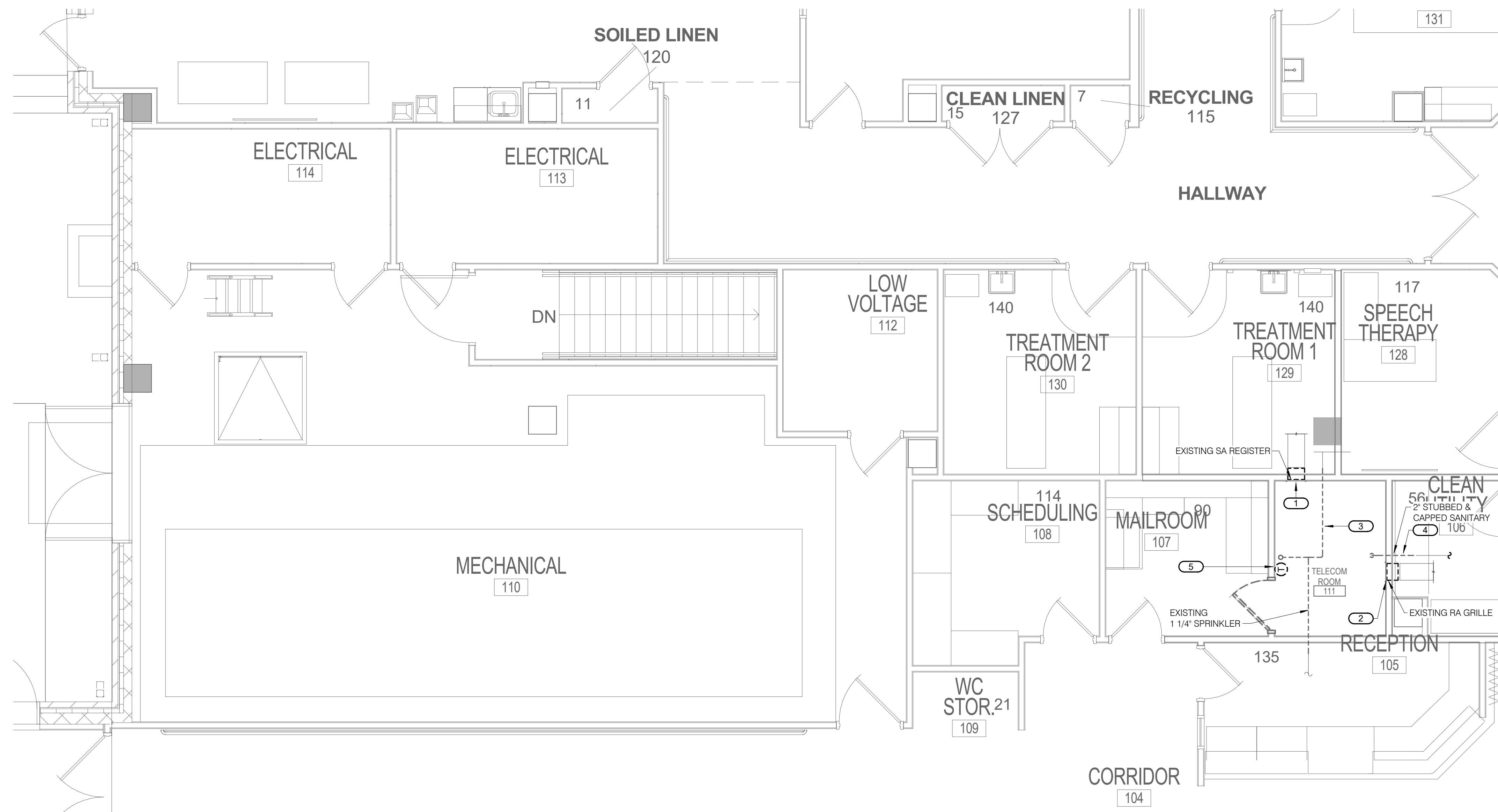
**KEYNOTES 1116-M101:**

- REMOVE EXISTING REGISTER AND CAP DUCT.
- REMOVE EXISTING GRILLE AND CAP DUCT.
- EXISTING FIRE SPRINKLER BRANCH LINE TO BE RE-ROUTED.
- DEMO 2" STUBBED AND CAPPED SANITARY PIPE TO OUTSIDE OF ROOM AND CAP.
- REMOVE EXISTING THERMOSTAT.

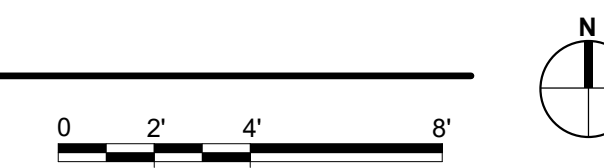
**MECHANICAL GENERAL NOTES:**

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 6" 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.



**1 FIRST FLOOR DEMOLITION - MECHANICAL - EXIST RM 111**  
1/4" = 1'-0"



3/28/2022 3:54:47 PM

BIM 360://1102.001 - VA St. Cloud EHRM Infrastructure Upgrades/656-235-B116.M\_P01.rvt

No.	REVISION	DATE
100% CD		03/30

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**ANDERSON**

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**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 in the State of Minnesota.

Name: DOUGLAS License Number: MW 24706

**DRAWING TITLE**

**FIRST FLOOR DEMOLITION - MECHANICAL**

PROJECT FILE	EHRM INFRASTRUCTURE UPGRADES	DATE	03/30/2022
PLOT SCALE		PROJECT NO.	656-21-235
BUILDING No.	116	DRAWN BY	JCL
CHECKED BY	RDL	DRAWING NO.	116-M101
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

**FIELD VERIFICATION NOTES**

- THE HVAC CONTRACTOR SHOULD VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT THEIR BID. THE FOLLOWING ITEMS SHALL BE FIELD VERIFIED:
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  - 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.
  - SIZE AND LOCATION OF EXISTING PLUMBING AND HYDRONIC PIPING.
- 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 1/116-M201:**

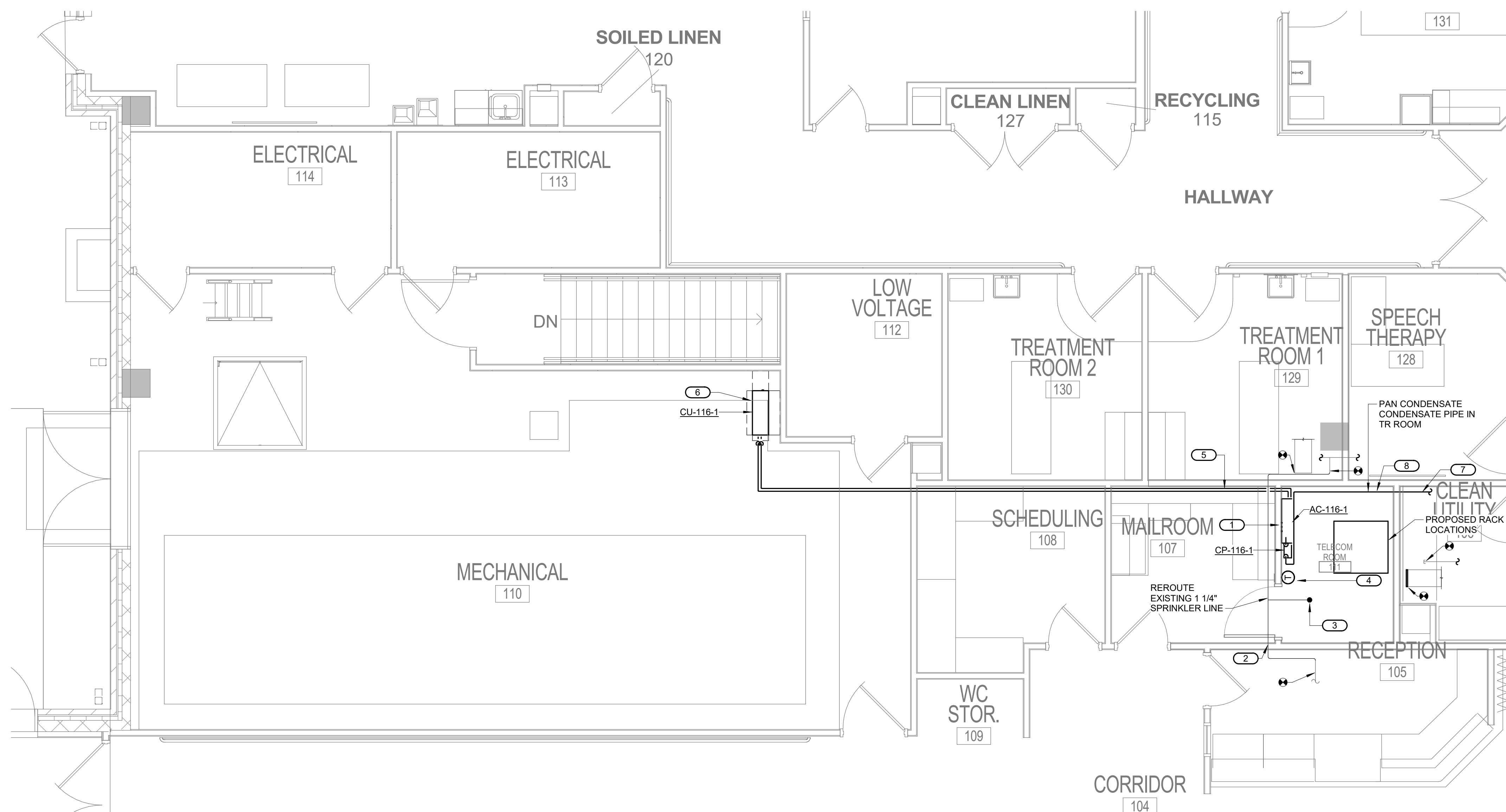
- NEW SPLIT SYSTEM AC UNIT.
- REROUTED FIRE SPRINKLER BRANCH LINE. FIELD VERIFY REQUIREMENTS.
- NEW FIRE SPRINKLER HEAD.
- NEW THERMOSTAT.
- ROUTE REFRIGERANT PIPING TO NEW AIR-COOLED CONDENSING UNIT LOCATED AT WEST EXTERIOR OF BUILDING. FIELD VERIFY ROUTING.
- NEW AIR-COOLED CONDENSING UNIT. PROVIDE CONCRETE PAD OR WALL STAND.
- ROUTE 1" CONDENSATE LINE TO MOP SINK IN HAC ROOM LOCATED APPROXIMATELY 30 FT EAST. FIELD VERIFY ROUTING.
- PROVIDE DRIP PAN FOR CONDENSATE LINE IN TR ROOM. SEE DETAIL FOR REQUIREMENTS.

**MECHANICAL GENERAL NOTES:**

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  - 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 COR 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. IT 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 WATER TIGHT.
  - 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 6" 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 HISHER 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 HISHER 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.
  - 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 FIRST FLOOR - MECHANICAL - EXIST RM 111**

1/4" = 1'-0"

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No.	REVISION	DATE
100% CD		03/30

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**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 Licensed Professional Engineer in the State of Minnesota.

Name: DOUGLAS  
Date: 03/30/2022  
License Number: MW 24706

**DRAWING TITLE**

FIRST FLOOR REMODEL - MECHANICAL

**PROJECT FILE**

EHRM INFRASTRUCTURE UPGRADES

DATE: 03/30/2022  
PLOT SCALE: 1/4" = 1'-0"  
PROJECT NO: 656-21-235

BUILDING NO: 116  
CHECKED BY: RDL  
DRAWN BY: JCL  
DRAWING NO: 116-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