

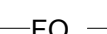
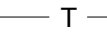


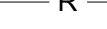

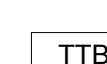
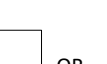





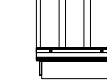

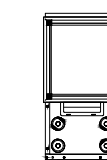
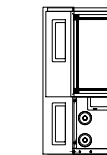


## GENERAL SYMBOLS




	CABLE TELEVISION LINE = CATV
	CLOSED CIRCUIT TELEVISION LINE = CCTV. MINIMUM 1" (25mm) CONDUIT
	FIBEROPTICS LINE = FO
	TELEPHONE LINE = T
	INTERCOM LINE = I. MINIMUM 3/4" (19mm) CONDUIT.
	SOUND LINE = S
	NURSE CALL LINE = NC. MINIMUM 3/4" (19mm) CONDUIT.
	RADIO CONDUIT RUN, MINIMUM 3/4" (19mm) CONDUIT.
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATION TERMINAL CABINET
	TELEPHONE BACKBOARD (WALL MOUNTED)
	WIRE MESH CABLE TRAY SIZE COMMENSURATE WITH REQUIREMENTS
	CONDUIT WITH BUSHING FIRESTOP AND INNERDUCT FOR FIBER
	SLEEVE WITH BUSHING FIRESTOP AND INNERDUCT FOR FIBER.
	SLEEVE OR CONDUIT WITH BUSHING FIRESTOP AND INNERDUCT FOR FIBER.
	TELECOMMUNICATIONS CHANNEL RACK, 19" RAILS, #12-24 TAPPED EIA HOLE PATTERN, 30" DEEP CHANNEL. MINIMUM 7" HIGH, 45RU, WHITE
	VERTICAL CABLE MANAGER WITH DOOR, 6" WIDE MINIMUM (SIZED TO MEET REQUIREMENT).
	SERVER CABINET, 45U, 24" X 48" (NOMINAL), SQUARE PUNCHED RAIL, SINGLE PERFORATED FRONT DOOR, SOLID REAR DOOR (VERTICAL EXHAUST DUCT [VED] IMPLEMENTATION); DOUBLE PERFORATED REAR DOOR(NO VED), TWO-POINT KEYED LOCKS, WHITE, SOLID SIDE PANELS.
	TELECOMMUNICATIONS CABINET, 7" HIGH, 45U, 40" X 48" (NOMINAL), SQUARE PUNCHED RAIL, SINGLE PERFORATED FRONT DOOR, SOLID REAR DOOR (VERTICAL EXHAUST DUCT [VED] IMPLEMENTATION), DOUBLE PERFORATED REAR DOOR (NO VED), TWO-POINT KEYED LOCKS, WHITE, SOLID SIDE PANELS.

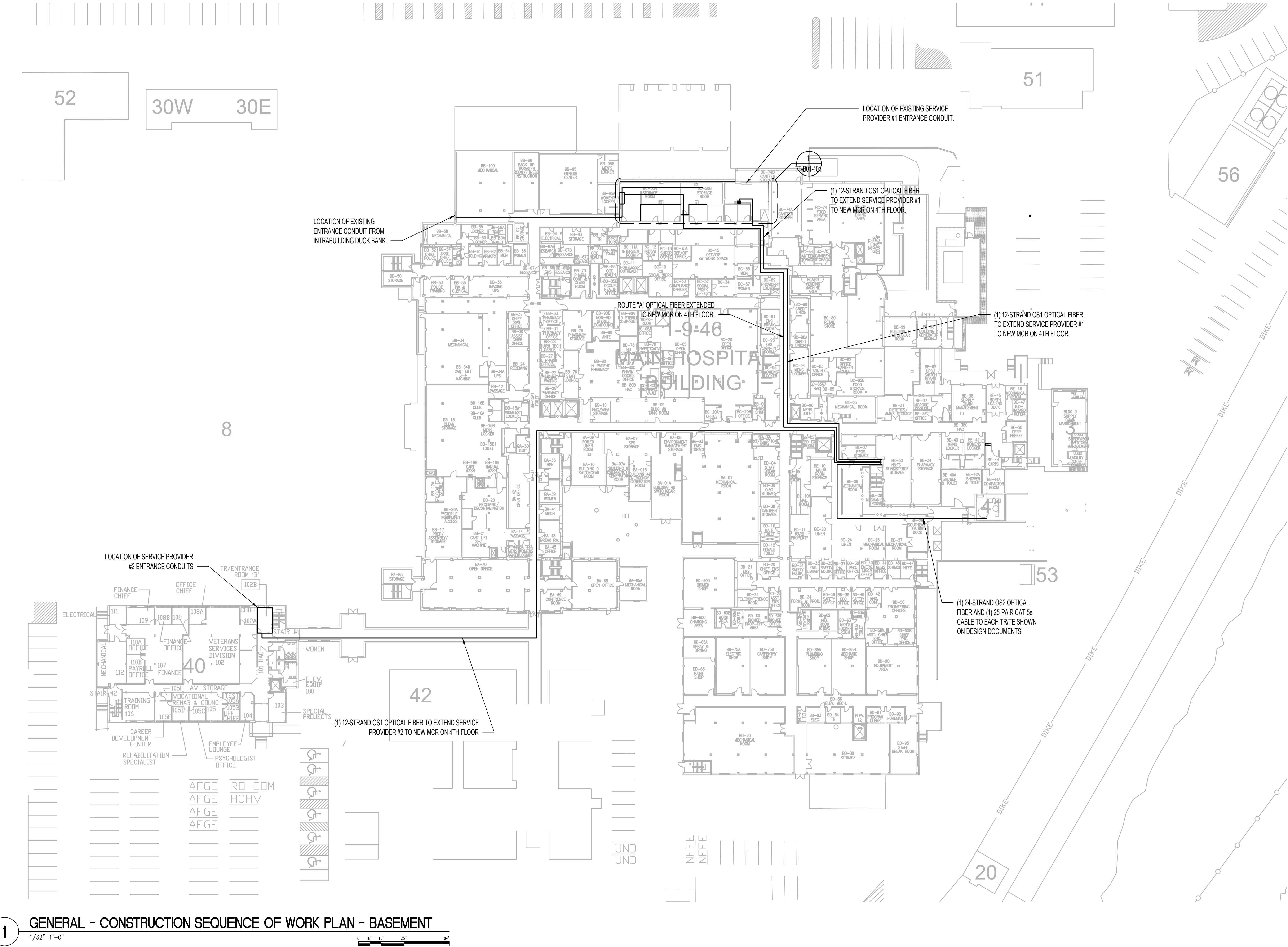
	NURSE CALL, CEILING MOUNTED DOME LIGHT
	NURSE CALL, WALL MOUNTED PULL CORD
	NURSE CALL, WALL MOUNTED DOME LIGHT
	NURSE CALL, WALL MOUNTED BED INTERFACE
	NURSE CALL, WALL MOUNTED STAFF ASSIST
	NURSE CALL, WALL MOUNTED DUTY STATION
	NURSE CALL, WALL MOUNTED STAFF TERMINAL
	NURSE CALL, WALL MOUNTED CODE BLUE
	NURSE CALL, COUNTER MOUNTED MASTER STATION
	NURSE CALL ZONE LIGHT - CEILING MOUNTED

ISSUE FOR BID - 01/16/2024

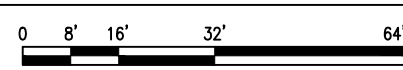


CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

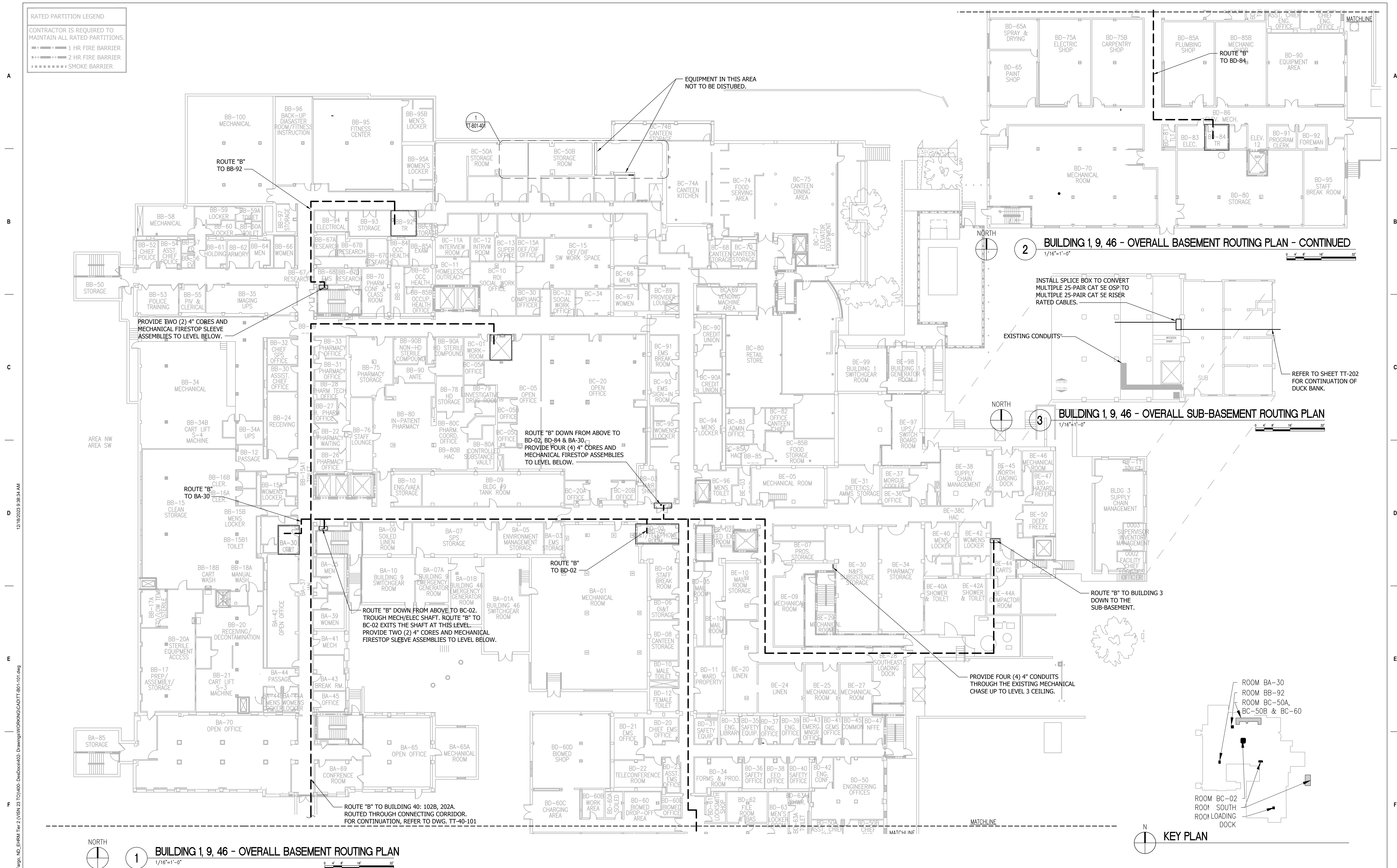
	1 HR FIRE BARRIER
	2 HR FIRE BARRIER
	SMOKE BARRIER



## 1 GENERAL - CONSTRUCTION SEQUENCE OF WORK PLAN - BASEMENT

$$1/32^n = 1' - 0^n$$
[illegible]



[illegible]

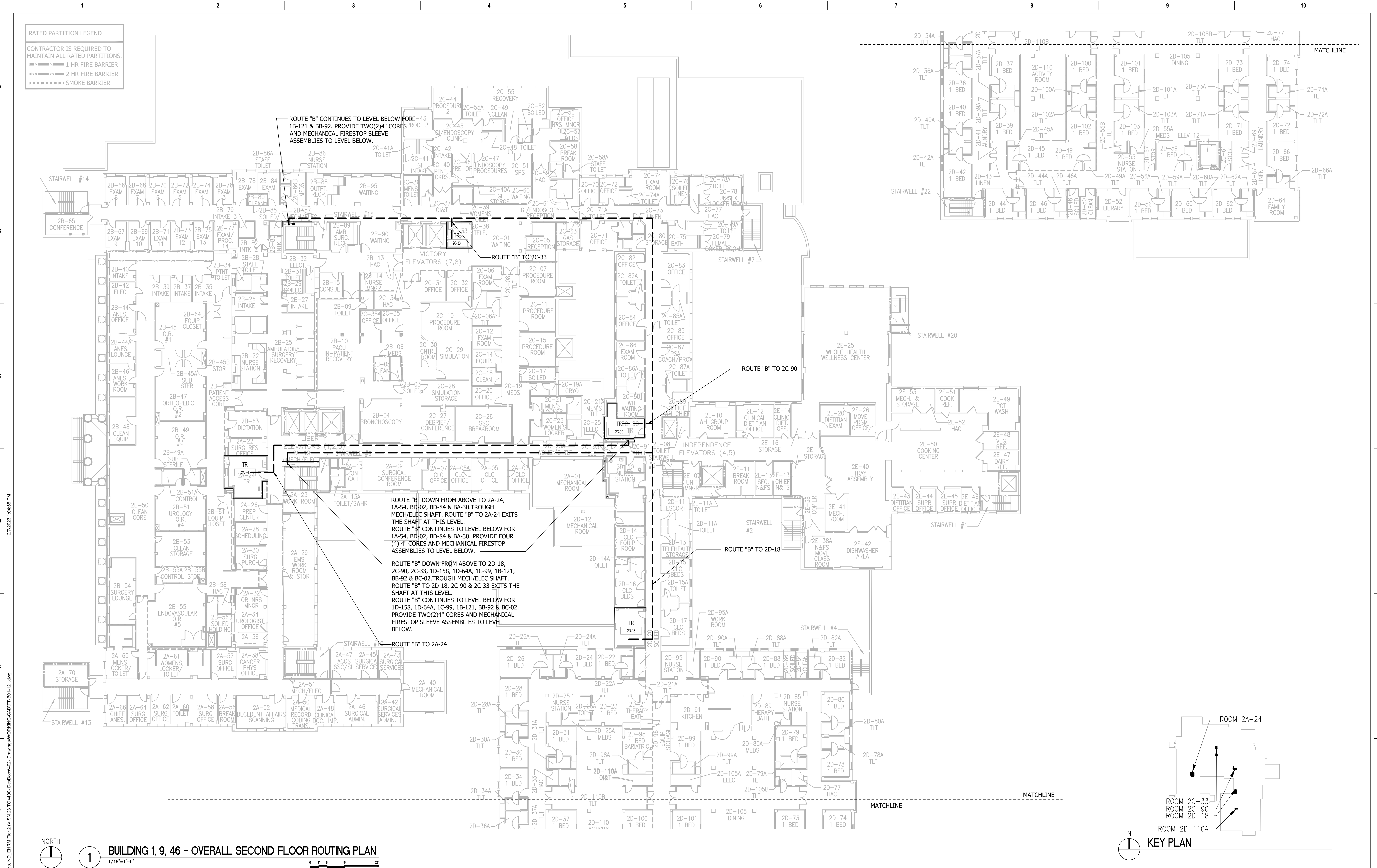


Project Number  
437-21-210

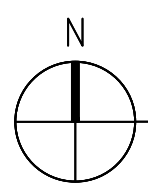
Building Number  
1-9-46

Drawing Number  
TT-B01-111









Project Number 437-21-210
Building Number 01-09-46

FARGO VA HEALTH CARE SYSTEM		
Issue Date	Checked	Drawn
01/16/2024	CC	JCG

TT-B01-131

1

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1/16"=1'-0"

[illegible]

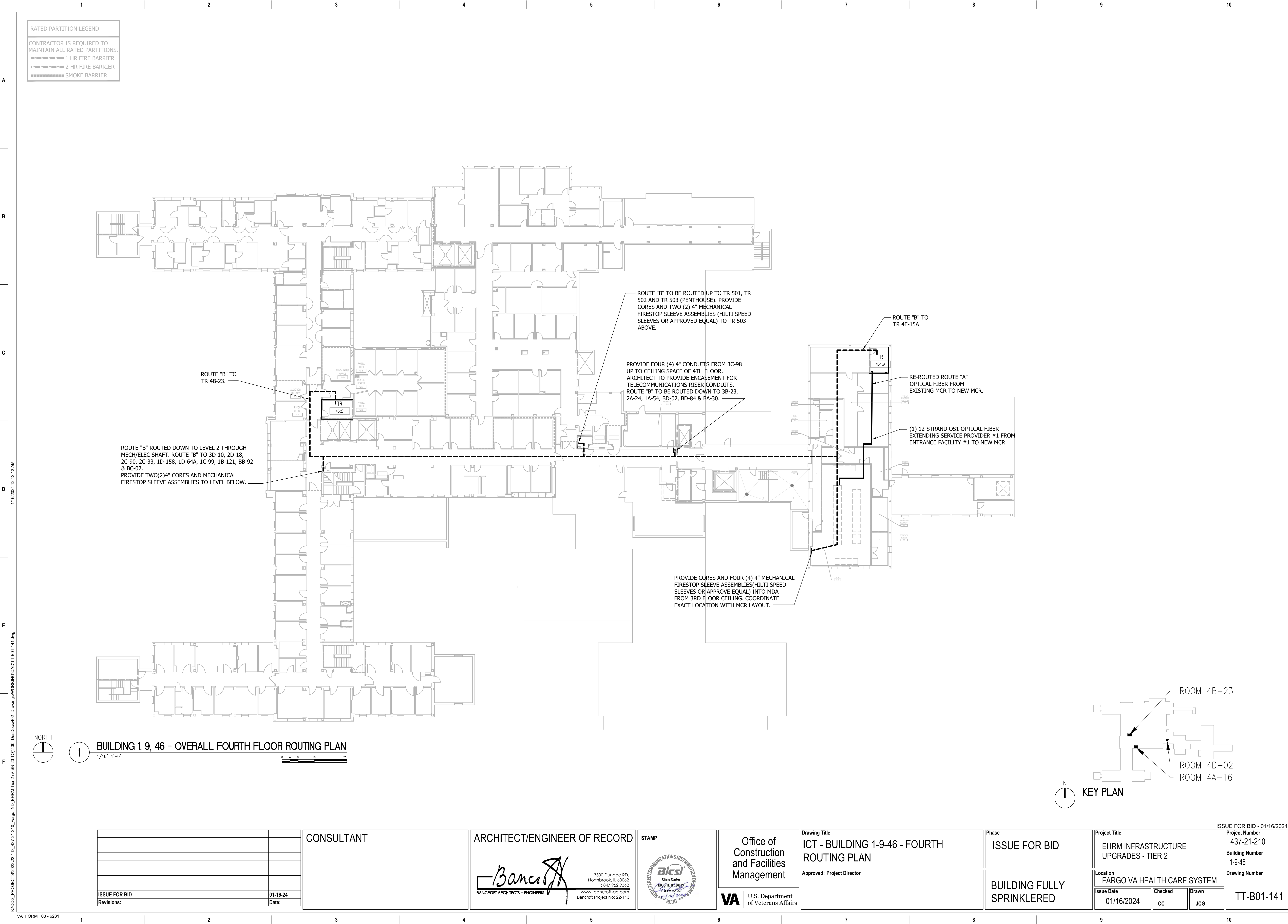
**VA** | U.S. Department  
of Veterans Affairs

BUILDING FULLY  
SPRINKLERED

Location	FARGO VA HEALTH CARE SYSTEM
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FARGO VA HEALTH CARE SYSTEM		
Issue Date	Checked	Drawn
01/16/2024	CC	JCG







ELEV.  
7 & 8  
MECH.  
TOP LEVEL

INSTALL ROUTE "B" FIBER AND  
COPPER TO TR'S 501, 502 & 503  
FROM LEVEL 4 BELOW.

—INSTALL ROUTE "B" FIBER AND  
COPPER TO TR 501

STAIRWELL #13-

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

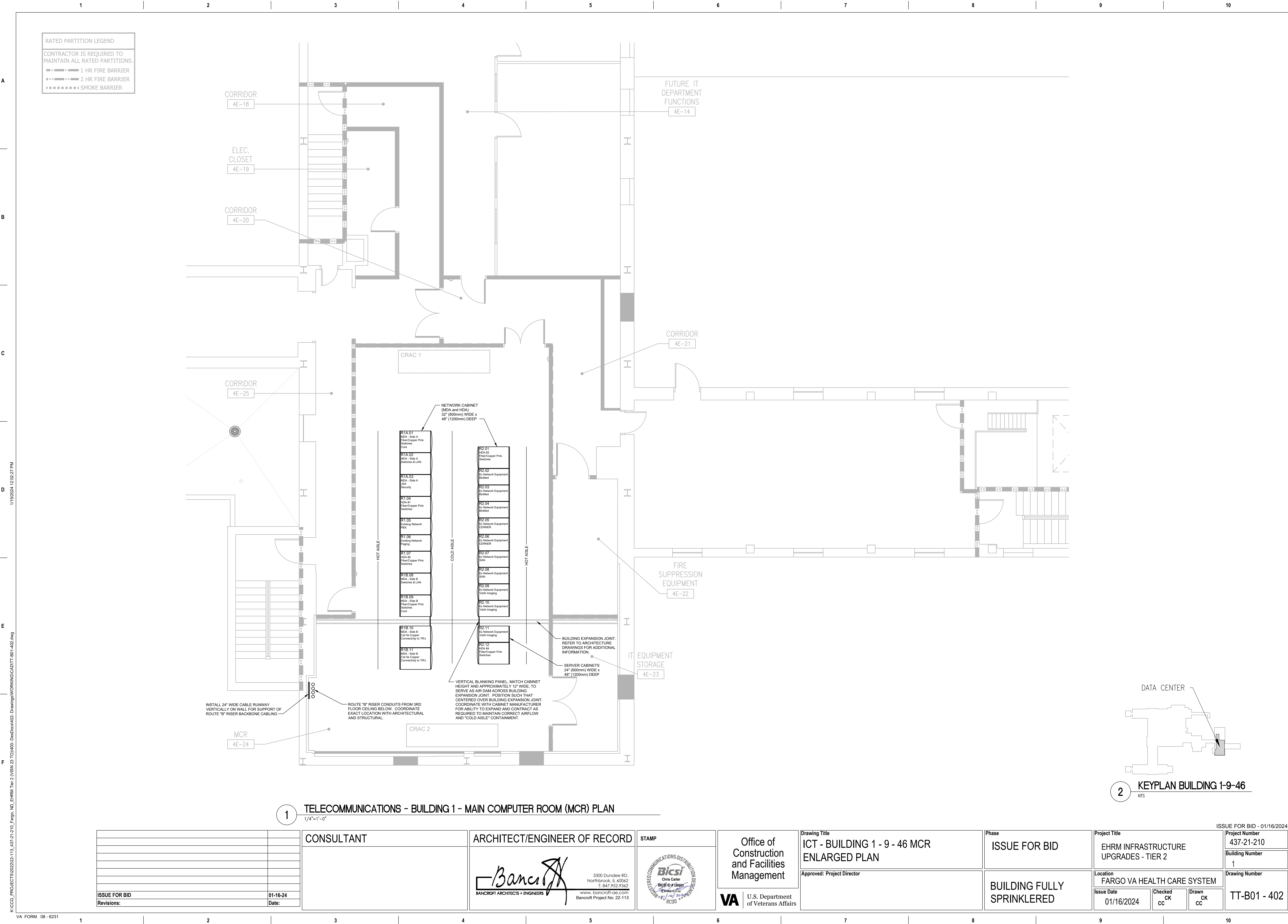
TT-B01-151

VA FORM 08-6231

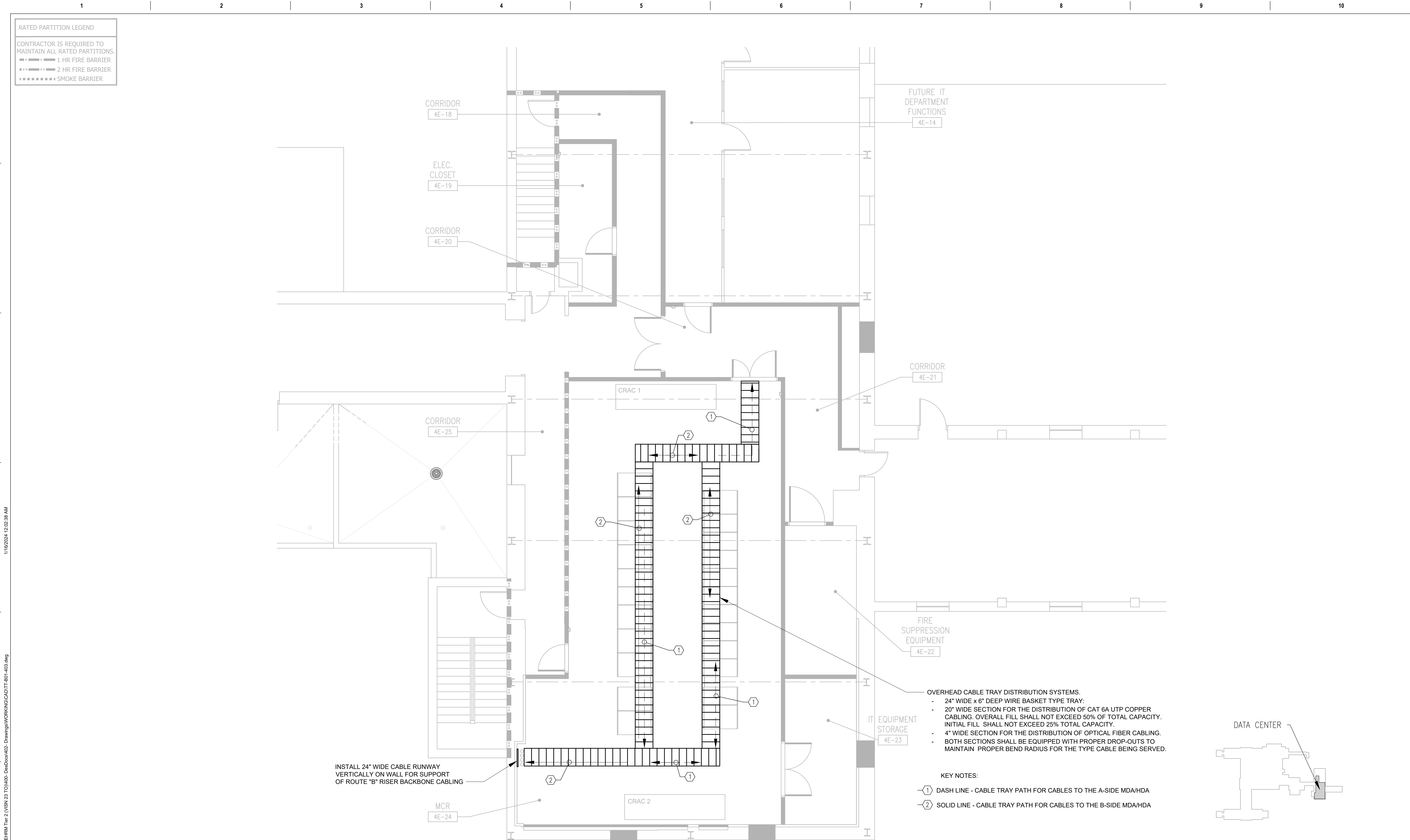




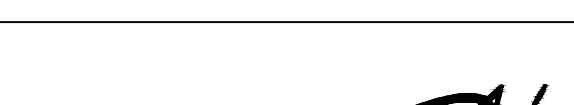





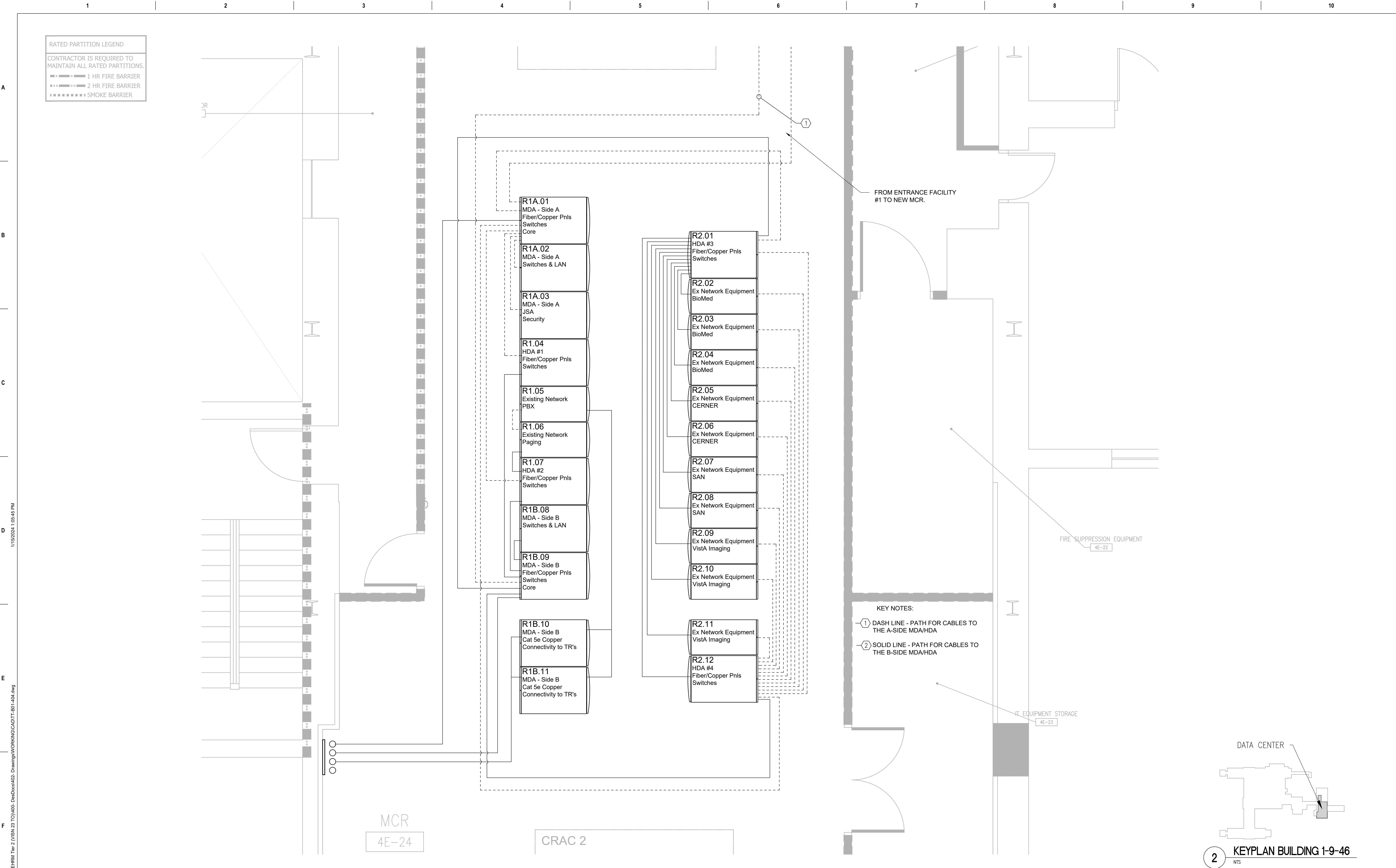




1 TELECOMMUNICATIONS - BUILDING 1 - MAIN COMPUTER ROOM (MCR) PLAN

		CONSULTANT	<div><div></div><div><div>3300 Dundee RD, Northbrook, IL 60062 T: 647.952.9362 E: info@bancroft-ae.com Bancroft Project No: 22-113</div></div></div>	STAMP <div><div></div><div><div>Office of Construction and Facilities Management</div><div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div></div></div>	<div>Drawing Title</div> <div>ICT - BUILDING 1-9-46 MCR ENLARGED CABLE TRAY PLAN</div>	<div>Phase</div> <div>ISSUE FOR BID</div>	<div>Project Title</div> <div>EHRM INFRASTRUCTURE UPGRADES - TIER 2</div>	<div>Project Number</div> <div>437-21-210</div>
							<div>Building Number</div> <div>1</div>	
							<div>Drawing Number</div> <div>TT-B01-403</div>	
<div>ISSUE FOR BID</div>	<div>01-16-24</div>							
<div>Revisions:</div>	<div>Date:</div>							





1 TELECOMMUNICATIONS - BUILDING 1 - MAIN COMPUTER ROOM (MCR) PLAN  
1/2"=1'-0"



**RATED PARTITION LEGEND**

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

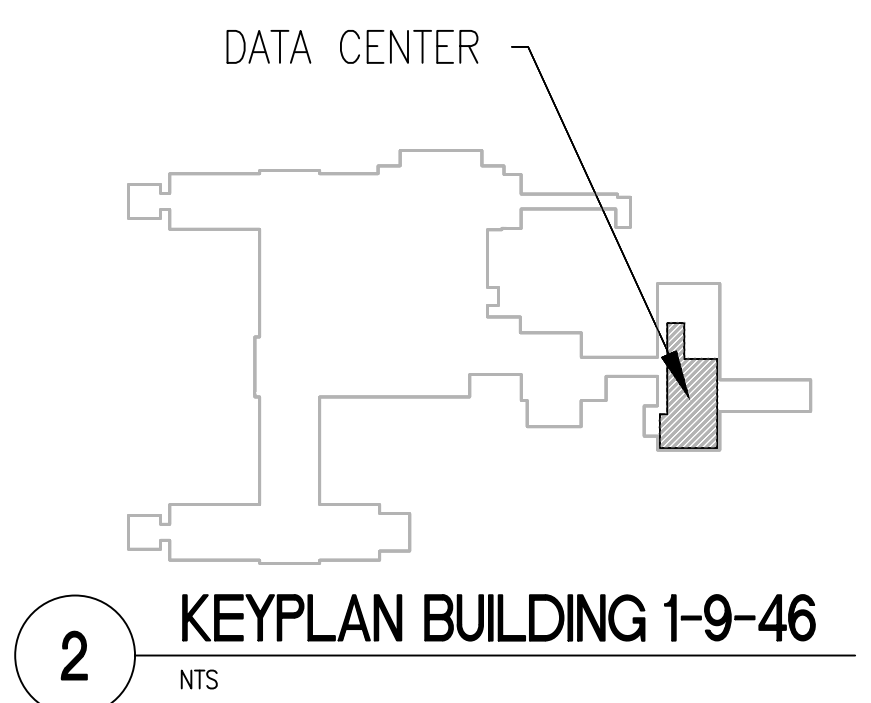
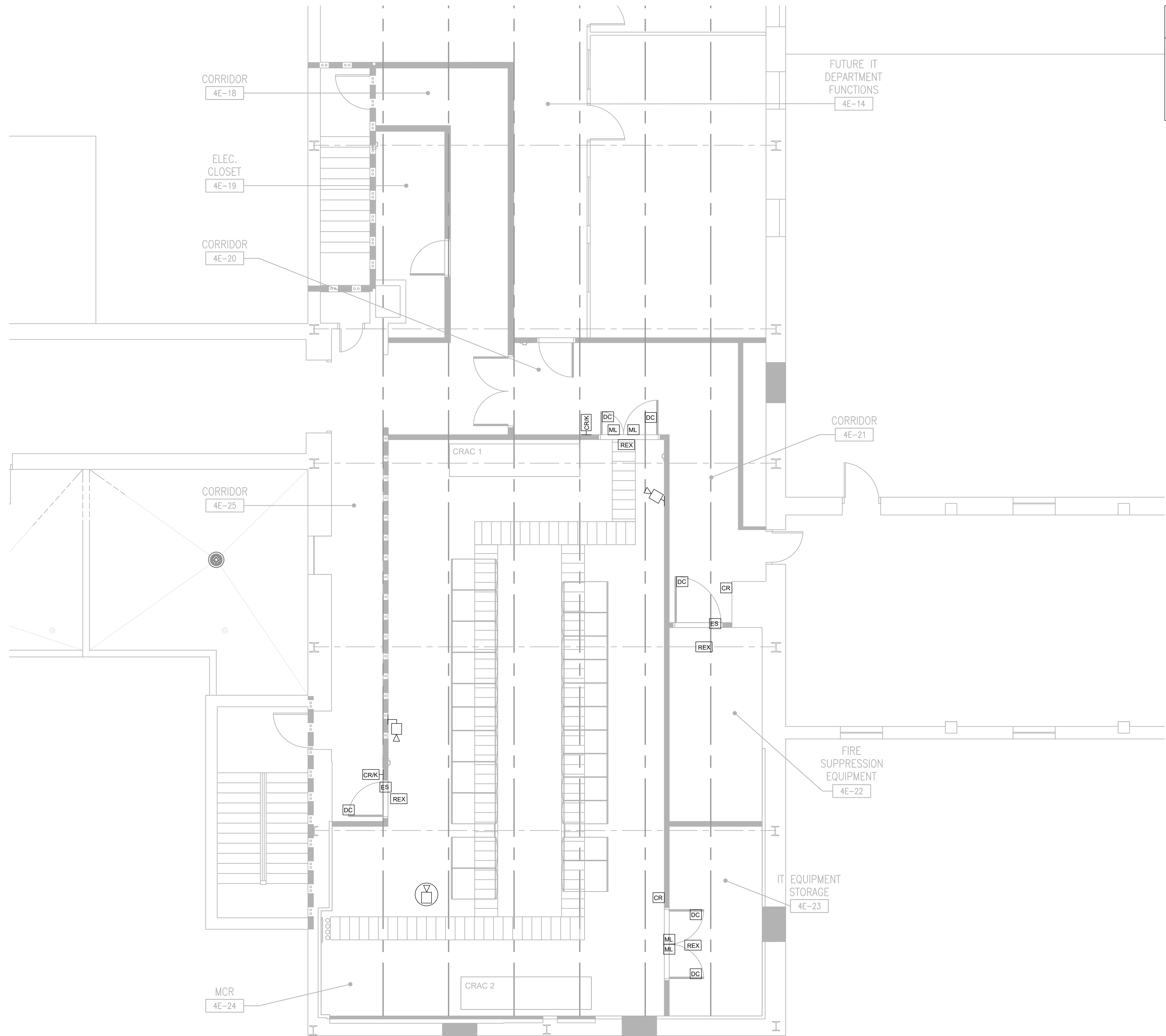
■ ○ ■ ○ ■ 1 HR FIRE BARRIER

■ ○ ■ ○ ■ 2 HR FIRE BARRIER

■ ■ ■ ■ ■ SMOKE BARRIER

## GENERAL NOTES

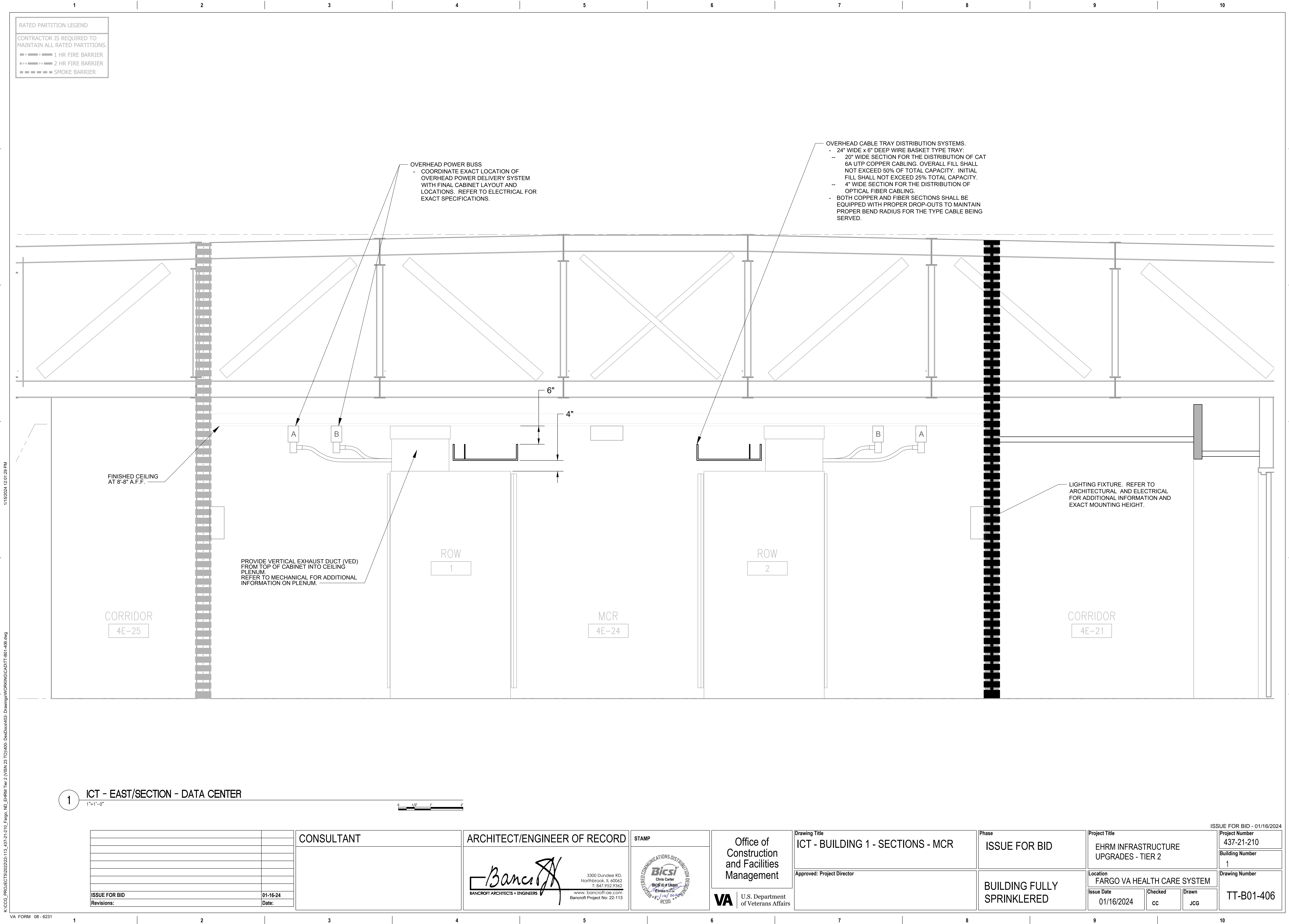
SECURITY DEVICES SHOWN SHALL BE CONNECTED TO THE EXISTING SECURITY SYSTEM. COORDINATE WITH FARGO STATION SECURITY PERSONAL CONCERNING EXACT LOCATION OF EXISTING SECURITY PANELS, MANUFACTURER AND MODEL.



1 TELECOMMUNICATIONS - BUILDING 1 - MAIN COMPUTER ROOM (MCR) SECURITY PLAN  
1/4"=1'-0"

[illegible]





11/15/2024 12:01:20 PM  
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VA FORM 08 - 6231



MAIN DISTRIBUTION  
AREA (MDA) "A" SIDE

ROW: 1 - CABINET: 03

NETWORK CABINET

[illegible]

HORIZONTAL DISTRIBUTION  
AREA (HDA)

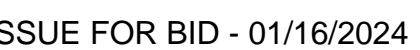
BINET: 11 ROW: 2

<p> <b>DENSITY</b>  <b>CABINET</b> </p>	<p> <b>NETWORK</b> </p>
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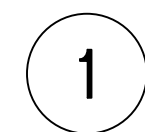
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EHRM INFRASTRUCTURE UPGRADES - TIER 2			437-21-210	
Location			Building Number	
FARGO VA HEALTH CARE SYSTEM			1	
Issue Date		Checked	Drawn	TT-B01-407
01/16/2024		CC	JG	



VA FORM 08-6231



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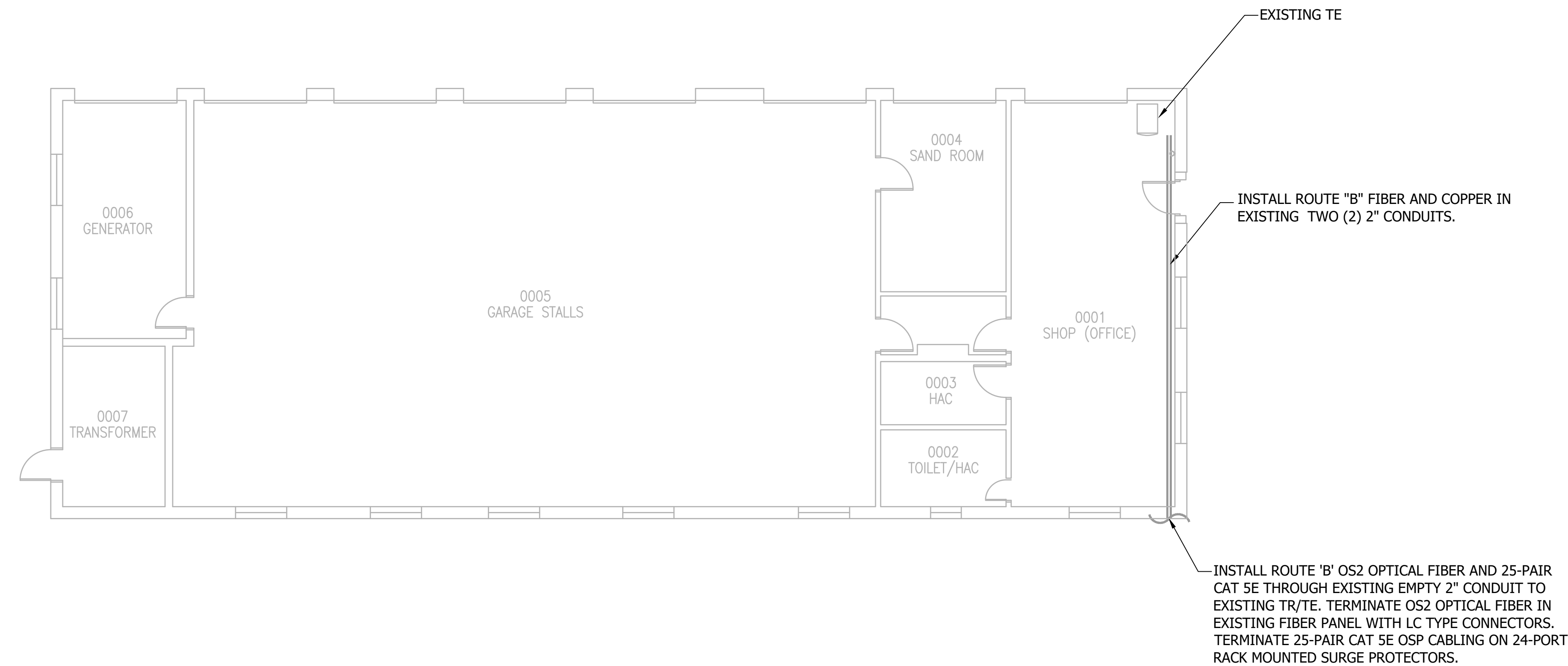
Project Number	437-21-210
Building Number	3
Drawing Number	TT-B03-101







RATED PARTITION LEGEND	
CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.	
	1 HR FIRE BARRIER
	2 HR FIRE BARRIER
	SMOKE BARRIER



**1 BUILDING 11 - OVERALL FIRST FLOOR ROUTING PLAN**  
1/8" = 1'-0" 0 2' 4' 8' 16'

[illegible]



TT-B12-101



**F**

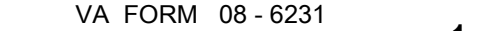


ISSUE FOR BID - 01/16/2024

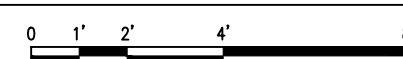


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VA FORM 08-6231

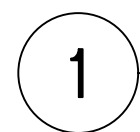


VA FORM 08-6231



ISSUE FOR BID - 01/16/2024



K:\CCG PROJECTS\2022\22-113 437-21-210 Fargo.




Component	Percentage of Total Length
5' UTR	10%
23S	20%
16S	20%
23S	20%
3' UTR	30%

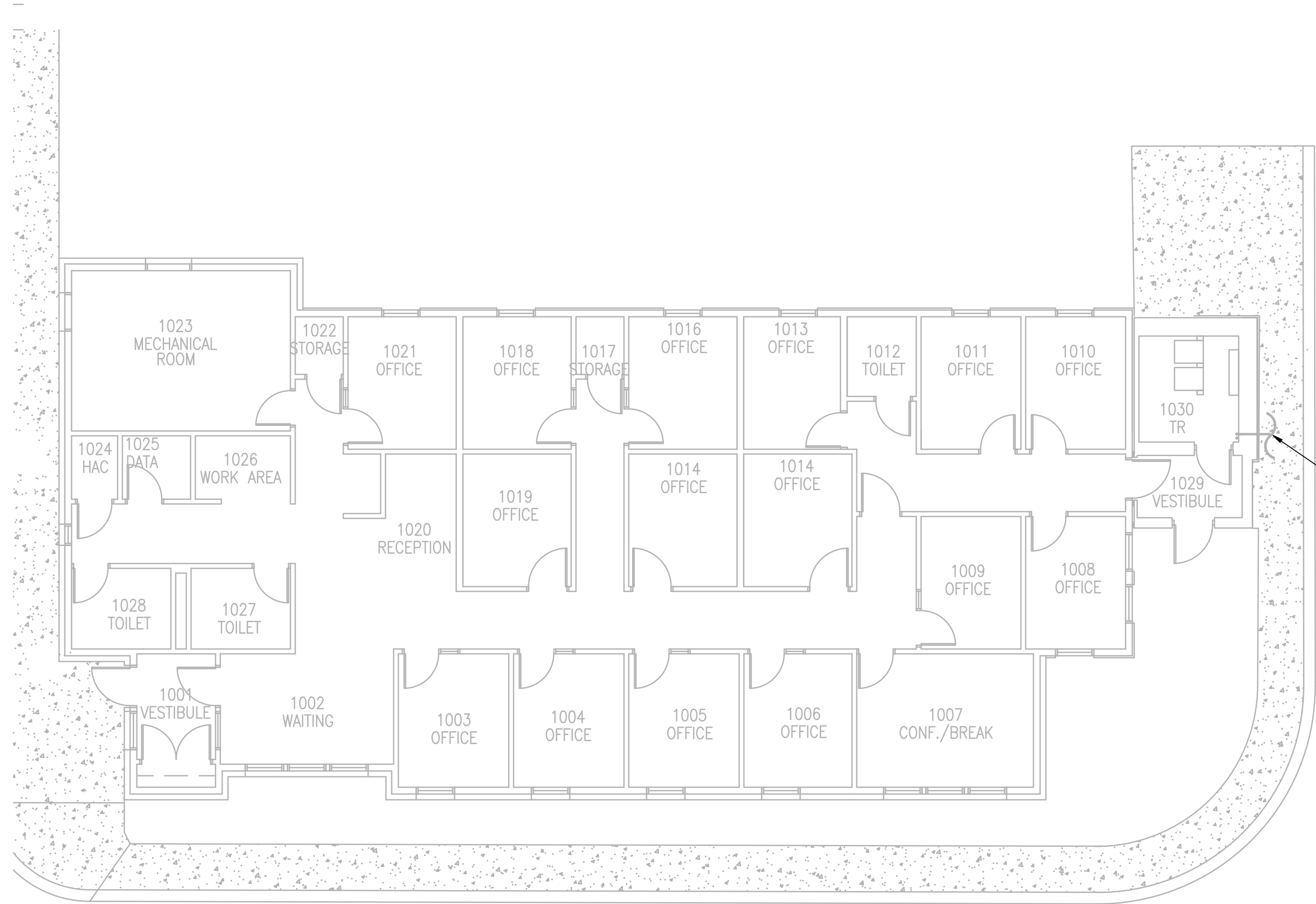
SSUE FOR BID - 01/16/2024







RATED PARTITION LEGEND	
CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.	
	1 HR FIRE BARRIER
	2 HR FIRE BARRIER
	SMOKE BARRIER



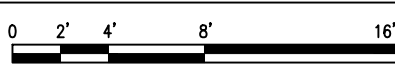
INSTALL ROUTE 'B' OS2 OPTICAL FIBER AND 25-PAIR CAT 5E THROUGH EXISTING EMPTY 2" CONDUIT TO EXISTING TR/TE. TERMINATE OS2 OPTICAL FIBER IN EXISTING FIBER PANEL WITH LC TYPE CONNECTORS. TERMINATE 25-PAIR CAT 5E OSP CABLING ON 24-PORT RACK MOUNTED SURGE PROTECTORS.



1

BUILDING 51 - OVERALL FIRST FLOOR ROUTING PLAN

1/8"=1'-0"



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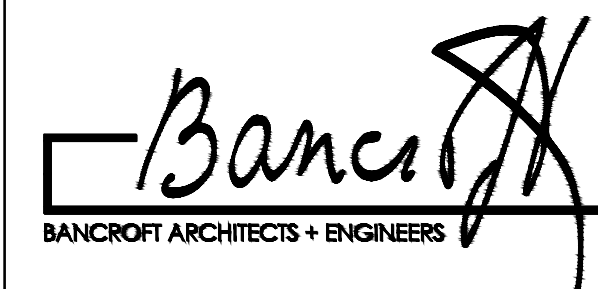
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ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD
 BANCROFT ARCHITECTS + ENGINEERS 3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 www.bancroft-ae.com Bancroft Project No: 22-113

STAMP
 Bicsi Chris Carter Bicsi ID # 138888 Engineer 1/16/2024 RECD

Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs
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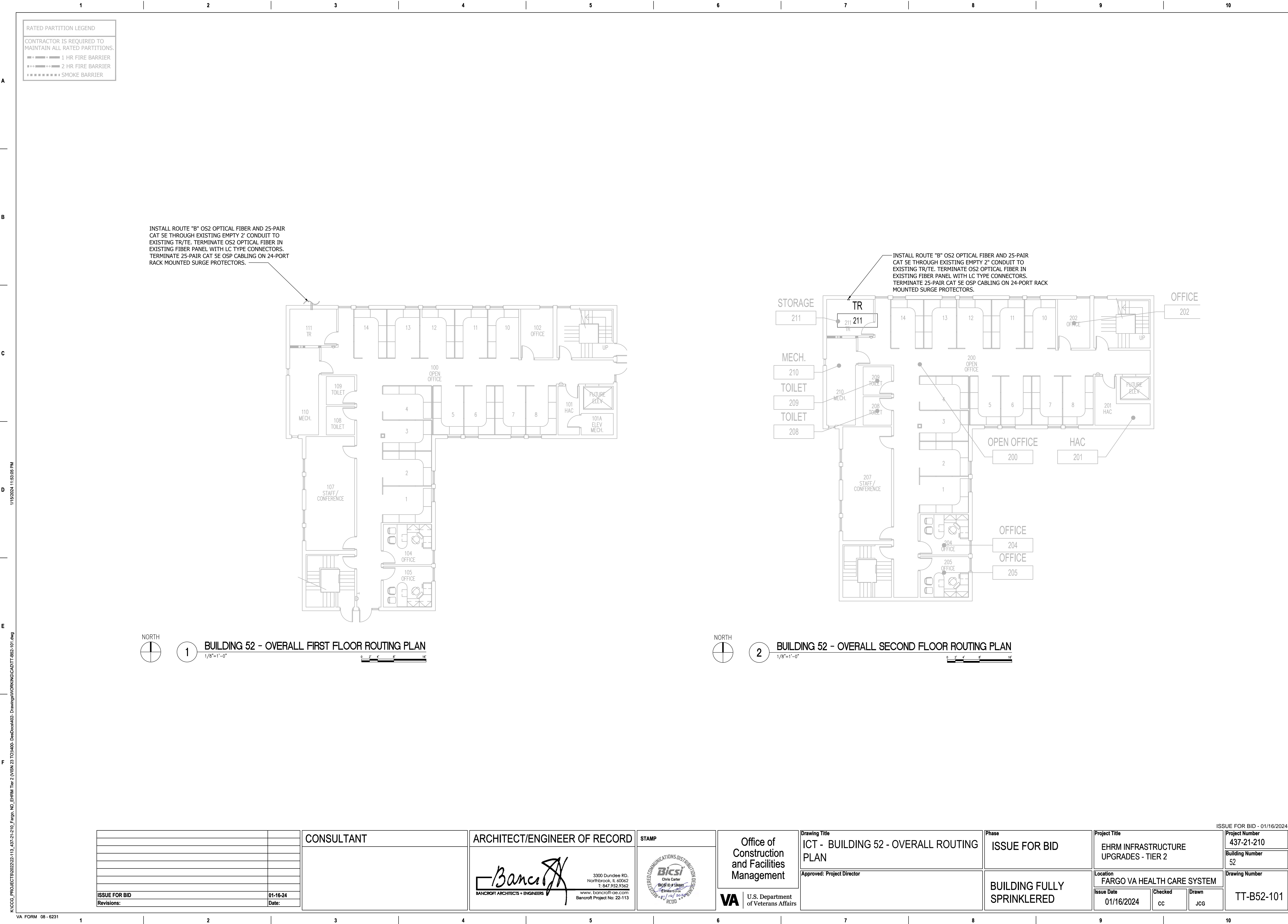
Drawing Title ICT - BUILDING 51 - OVERALL ROUTING PLAN Approved: Project Director
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Phase ISSUE FOR BID  BUILDING FULLY SPRINKLERED
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Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 2 Location FARGO VA HEALTH CARE SYSTEM Issue Date 01/16/2024 Checked CC Drawn JCG
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Project Number 437-21-210 Building Number 51 Drawing Number TT-B51-101
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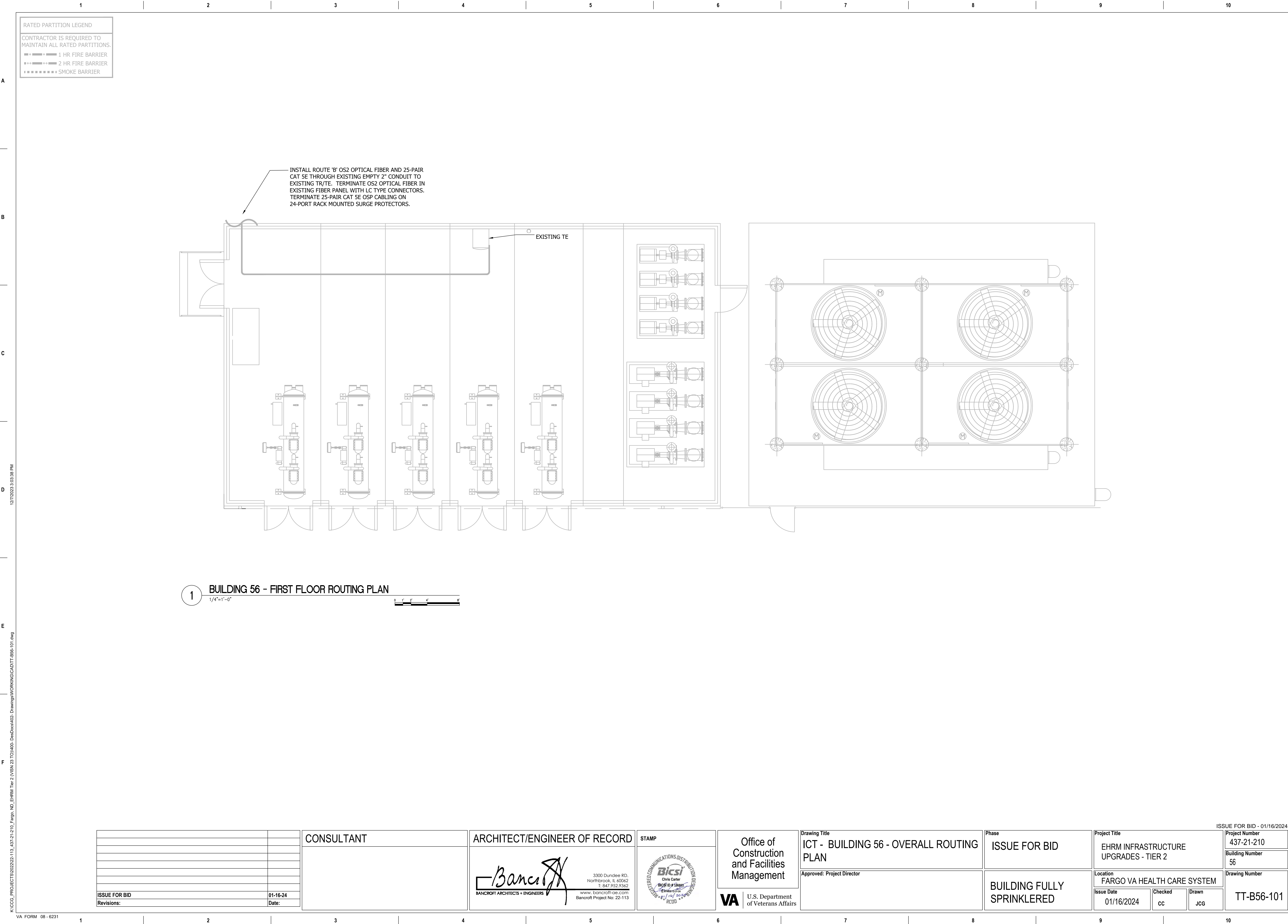
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						Approved: Project Director		Location FARGO VA HEALTH CARE SYSTEM	Building Number 52
								Issue Date 01/16/2024	Drawn JCG
								Checked CC	Drawn JCG
									TT-B52-101

ISSUE FOR BID - 01/16/2024

VA FORM 08 - 6231

1 2 3 4 5 6 7 8 9 10







A

B

C

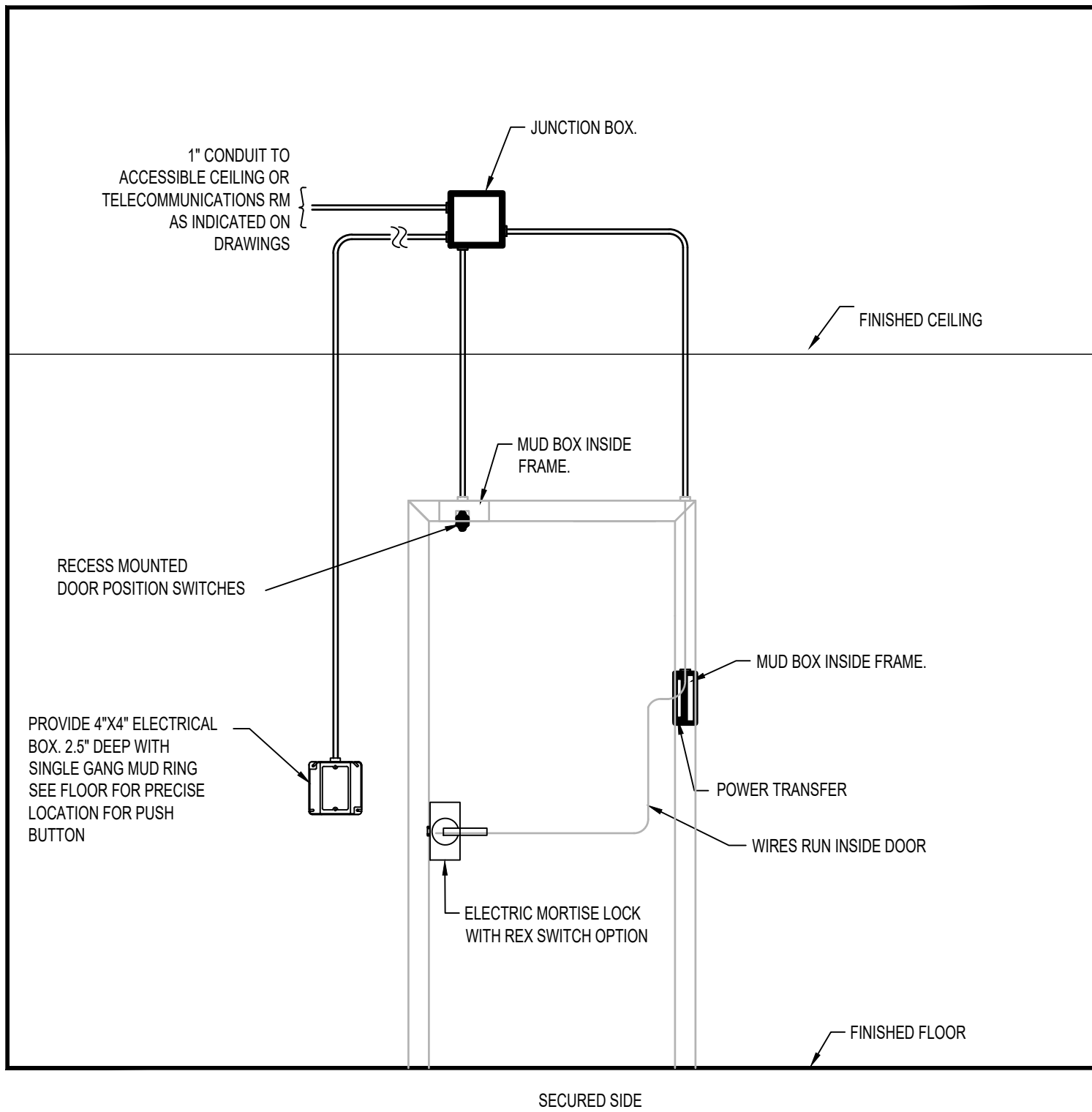
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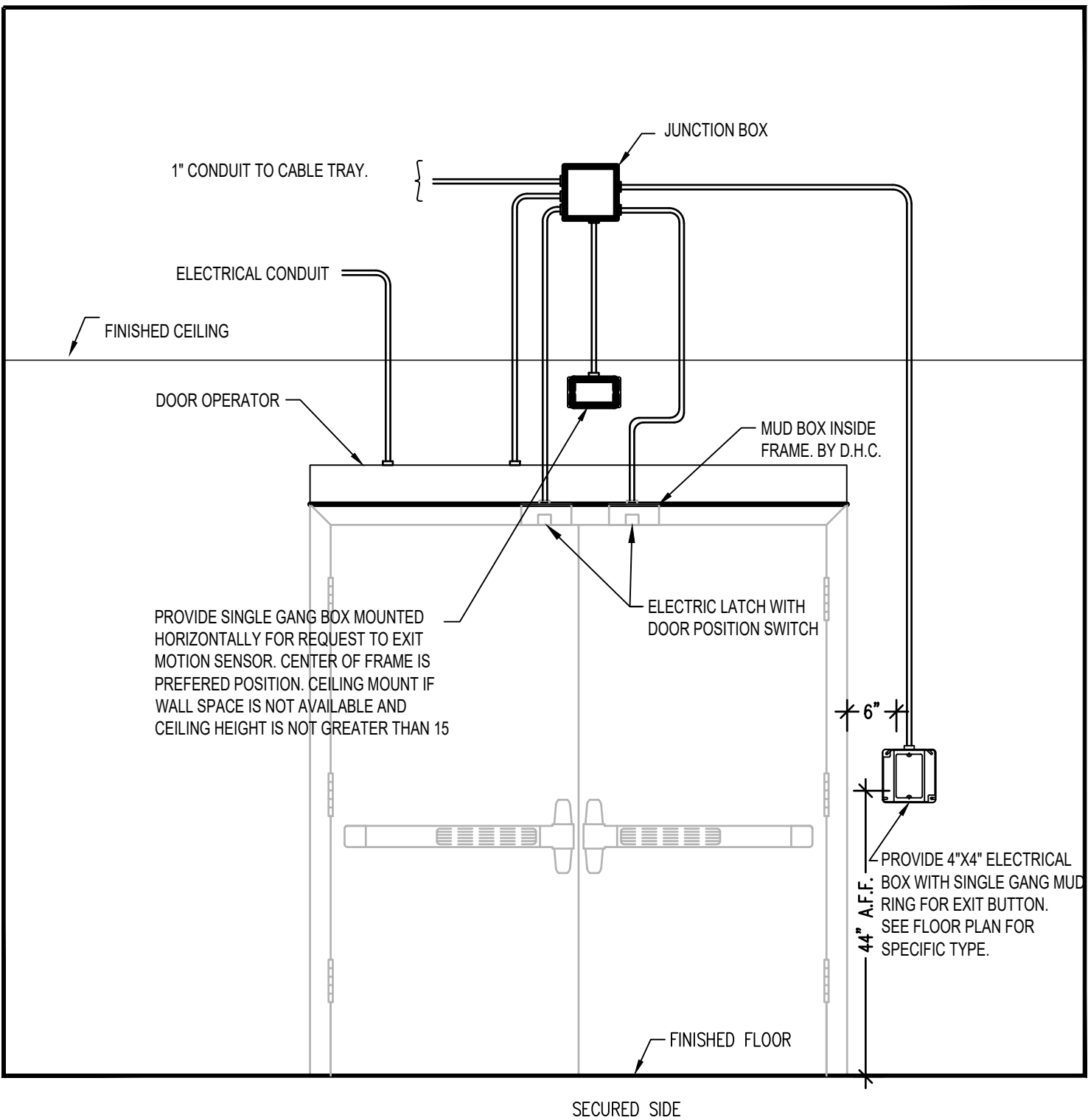
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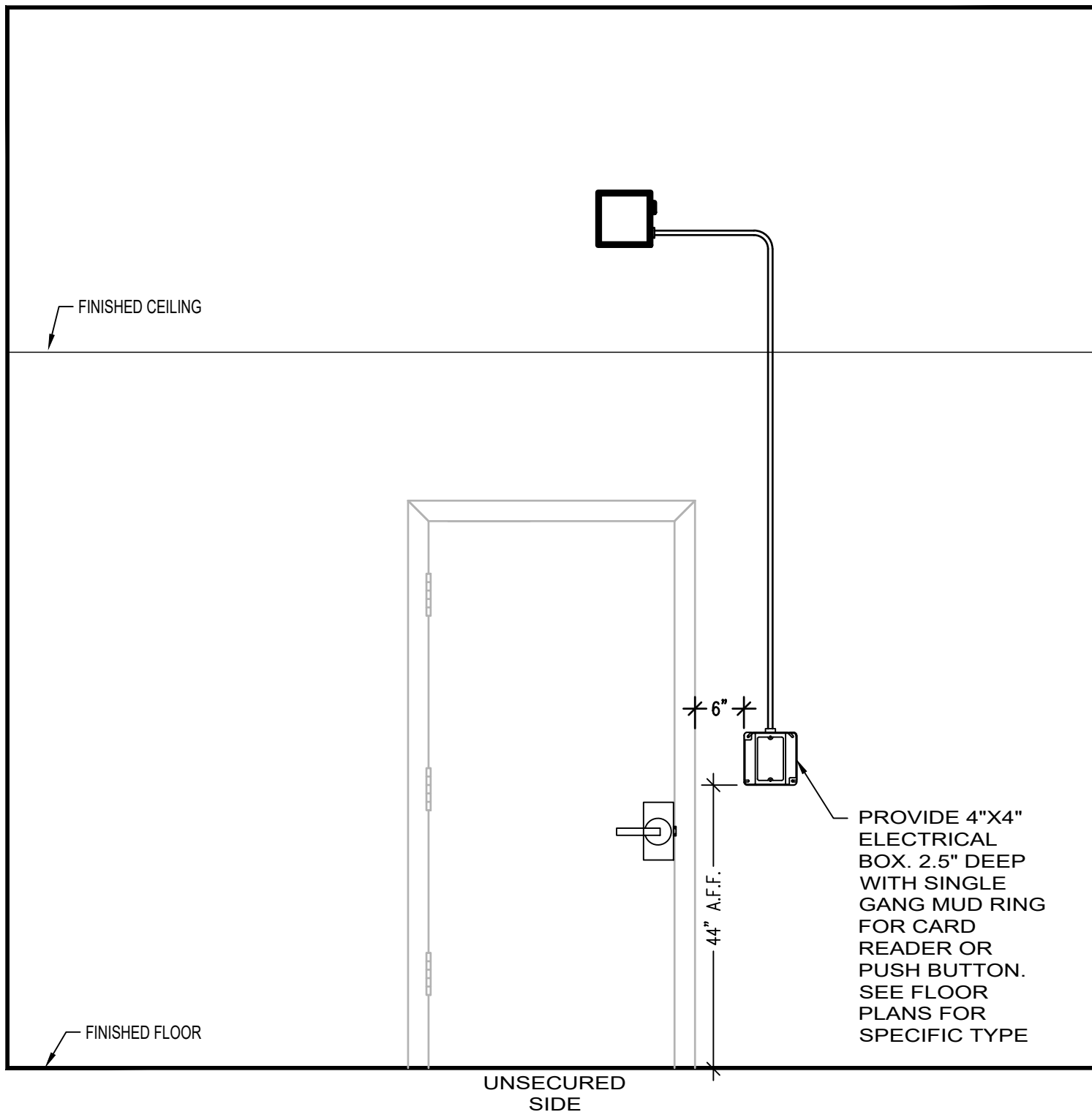
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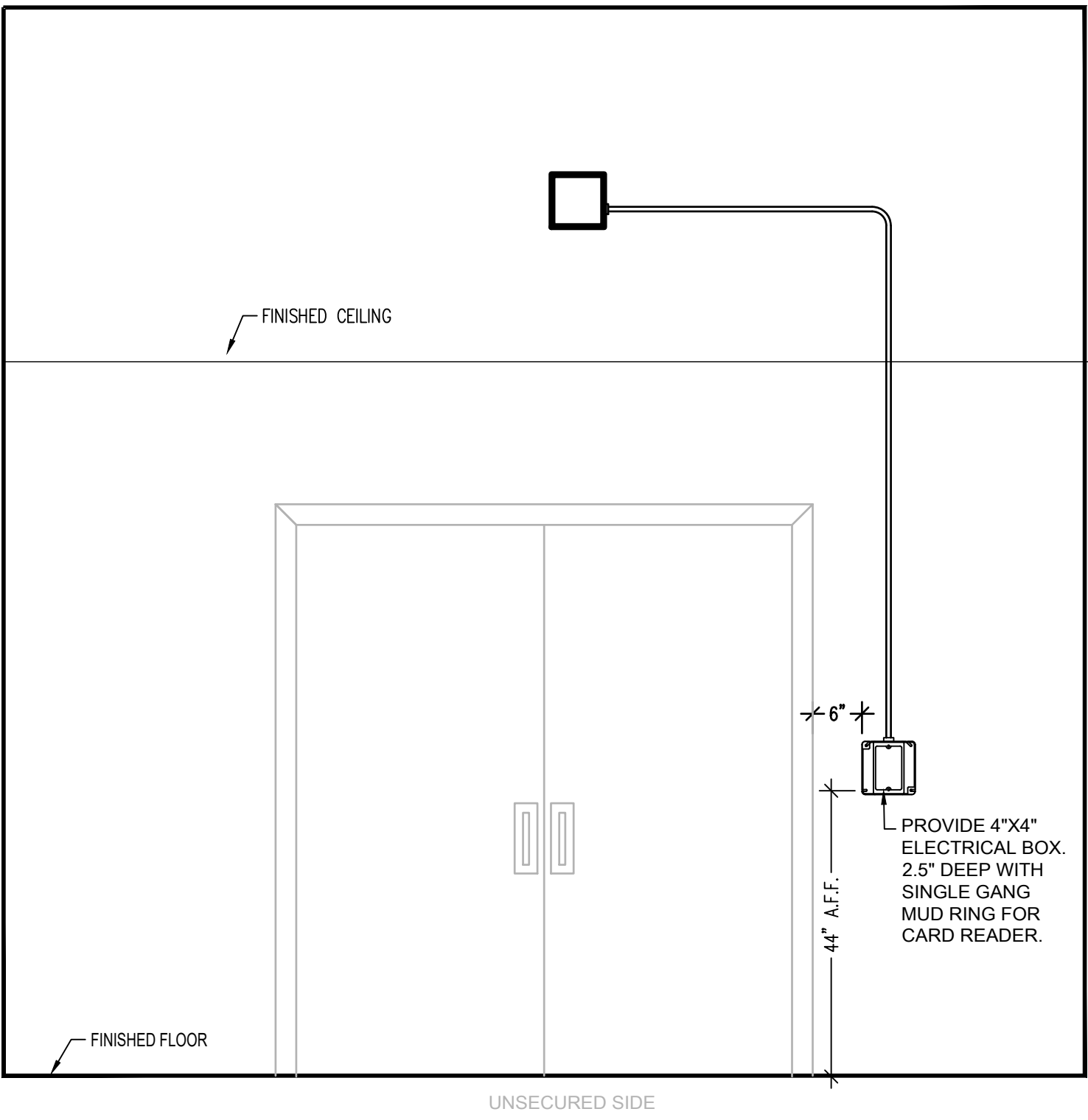
NOTES:  
1. CABLE TYPE AND SIZE MUST COMPLY WITH ALL ESTABLISHED REQUIREMENTS AND APPLICABLE CODES.  
2. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.  
3. DOOR HARDWARE SHOWN FOR GRAPHICAL ILLUSTRATION ONLY, REFERENCE DIVISION 8 HARDWARE SCHEDULE AS NEEDED FOR ACTUAL HARDWARE SET.



NOTES:  
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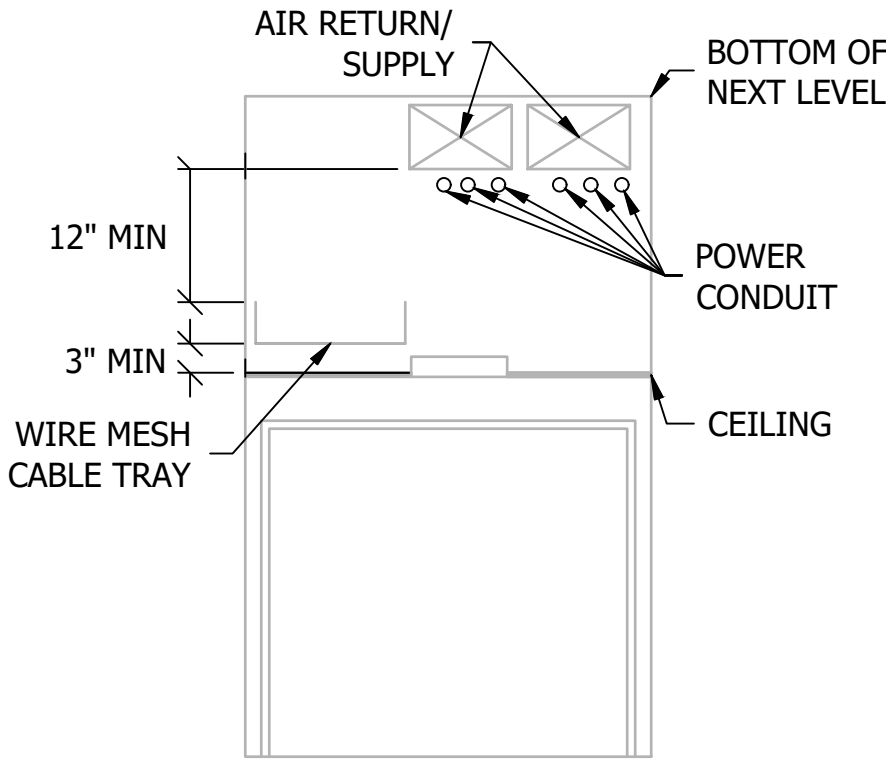


5 TYPICAL SINGLE SECURITY DOOR  
NTS

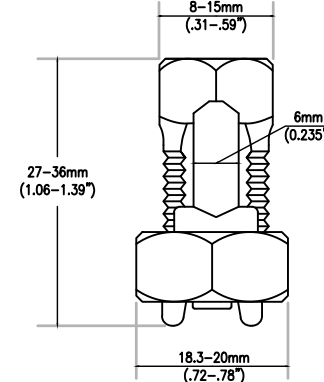


4 TYPICAL DOUBLE SECURITY DOOR  
NTS

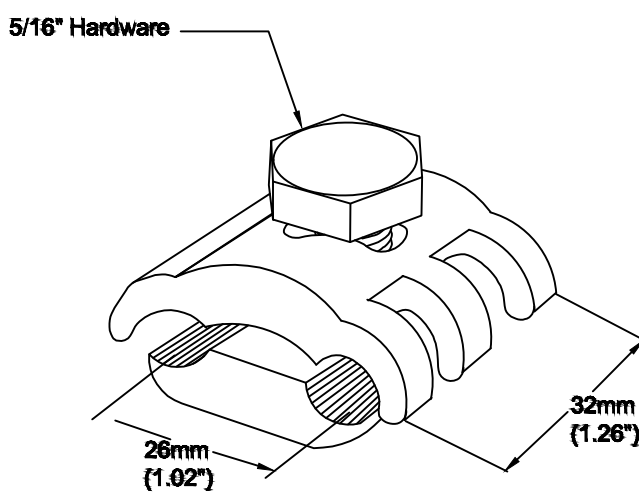
MIN SEPARATION BETWEEN COMMUNICATION AND 120 VAC: 8" EDGE-TO-EDGE  
MIN SEPARATION BETWEEN COMMUNICATION AND 208 VAC: 12" EDGE-TO-EDGE  
MIN SEPARATION BETWEEN COMMUNICATION AND 480 VAC: 24" EDGE-TO-EDGE  
MIN SEPARATION BETWEEN COMMUNICATION AND LIGHT BALLAST: 24" EDGE-TO-EDGE



3 CORRIDOR SLEEVE CROSS SECTION DETAIL  
NTS



NOTES:  
1. DIMENSION SHOWN ARE NOMINAL, OTHER SIZES MAY EXIST.  
2. CONTACT CABLOFIL IF NECESSARY.  
3. USE ONE ON EACH 60' OF TRAY RUN AND AT TRAY ENDS OR IF TRAY IS AN EQUIPMENT GROUNDING CONDUCTOR, ONE FOR EACH TRAY SECTION.  
4. ACCOMMODATES GAUGES 3-14 AWG.



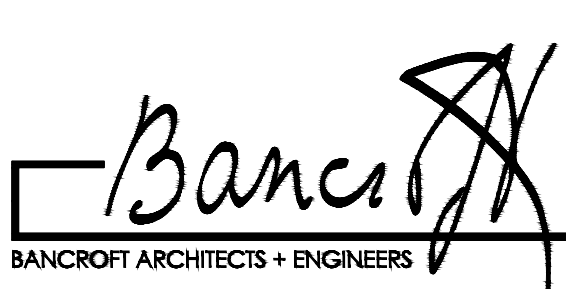
NOTE:  
USE ONE ON EACH 60' OF TRAY RUN AND AT TRAY ENDS OR IF TRAY IS AN EQUIPMENT GROUNDING CONDUCTOR, ONE FOR EACH TRAY SECTION.  
ACCOMMODATES 1/0-6AWG.  
RECOMMENDED TORQUE 12+/-2FT-LBS


2 SPLIT BOLT GROUNDING CONDUCTOR  
NTS

1 GROUNDING CONDUCTOR DETAIL  
NTS

ISSUE FOR BID	01-16-24
Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

3300 Dundee RD. Northbrook, IL 60062 T: 847.952.9362 www.bancroft-ae.com Bancroft Project No: 22-113

STAMP


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

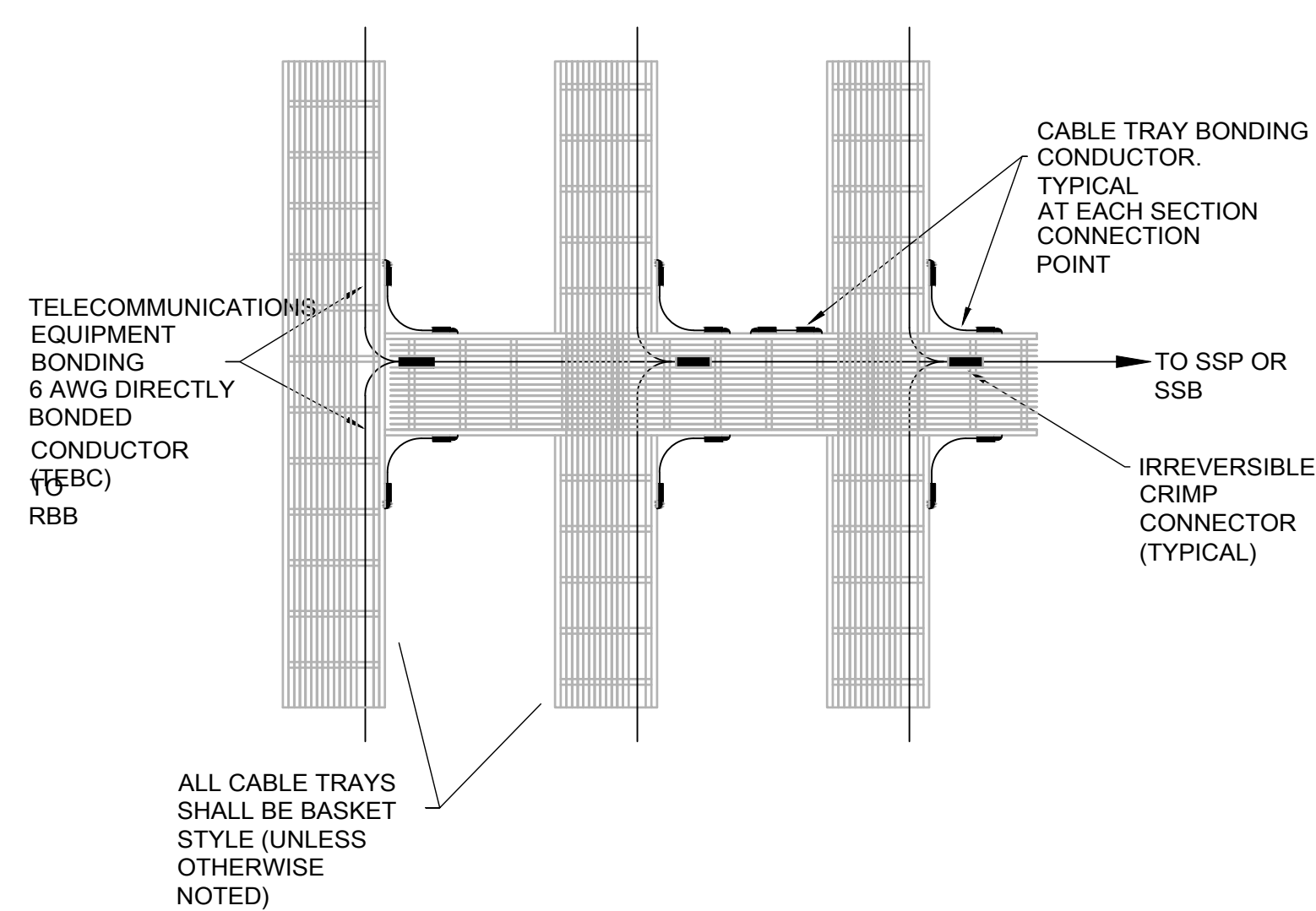
Drawing Title ICT - DETAILS
Approved: Project Director

Phase ISSUE FOR BID
BUILDING FULLY SPRINKLERED

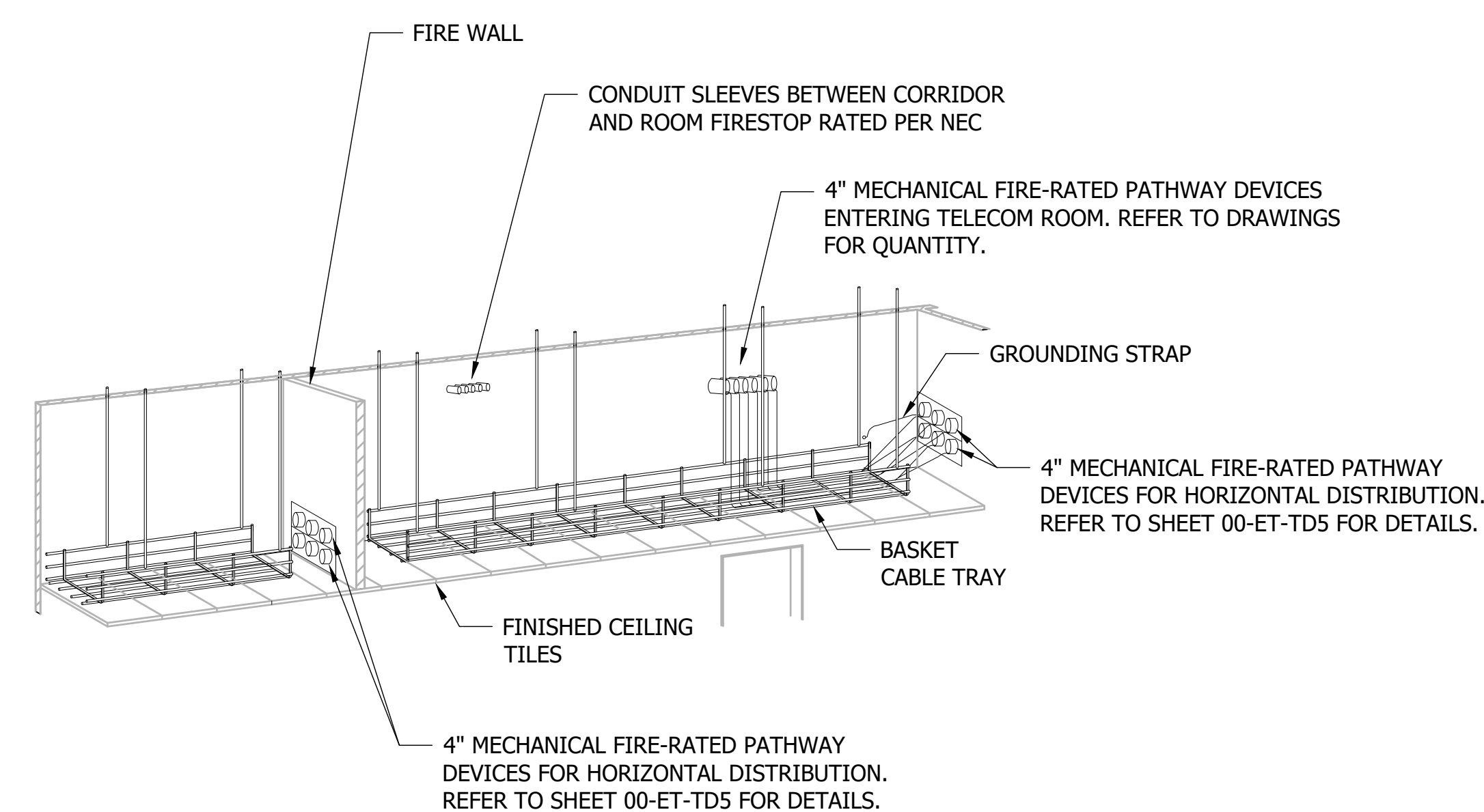
Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location FARGO VA HEALTH CARE SYSTEM
Issue Date 01/16/2024
Checked cc
Drawn JG

Project Number 437-21-210
Building Number
Drawing Number TT-500

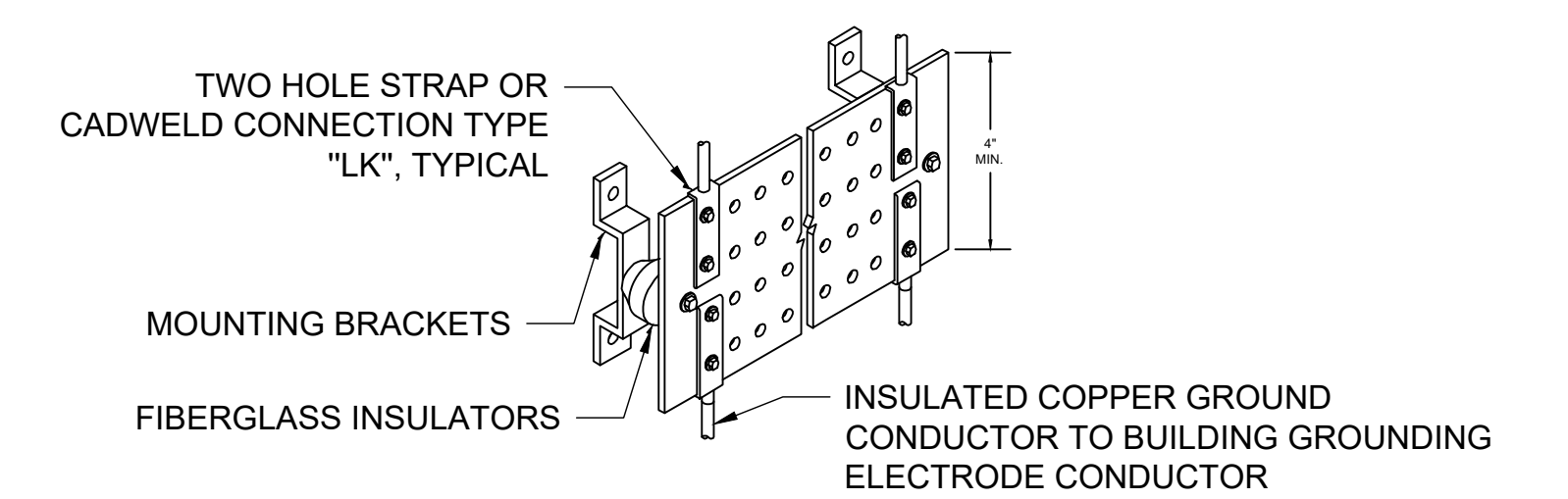




## 2 CABLE TRAY BONDING DETAIL

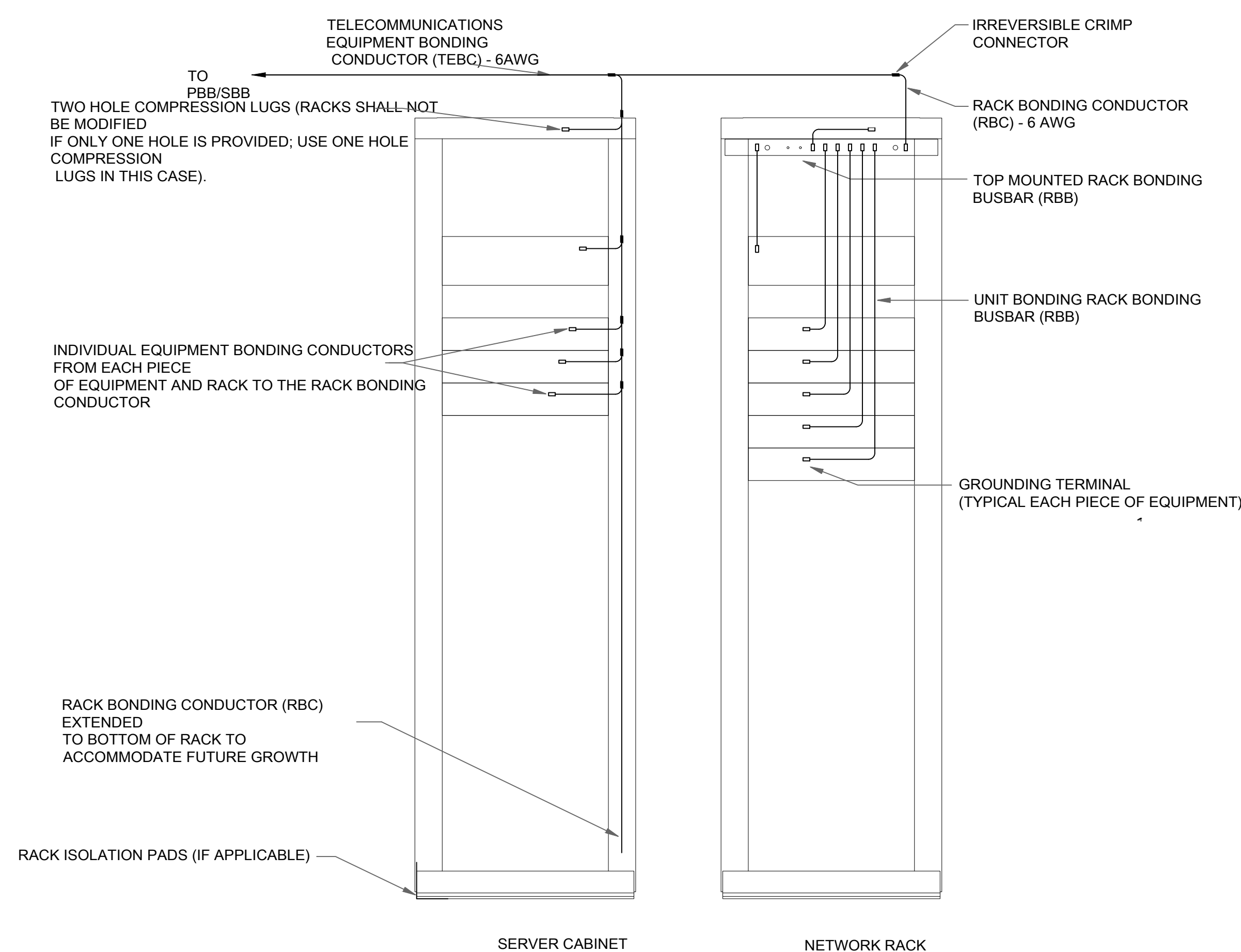


### 3 CABLE RUNWAY RACK MOUNTING / WIRE MESH PARALLEL DETAIL

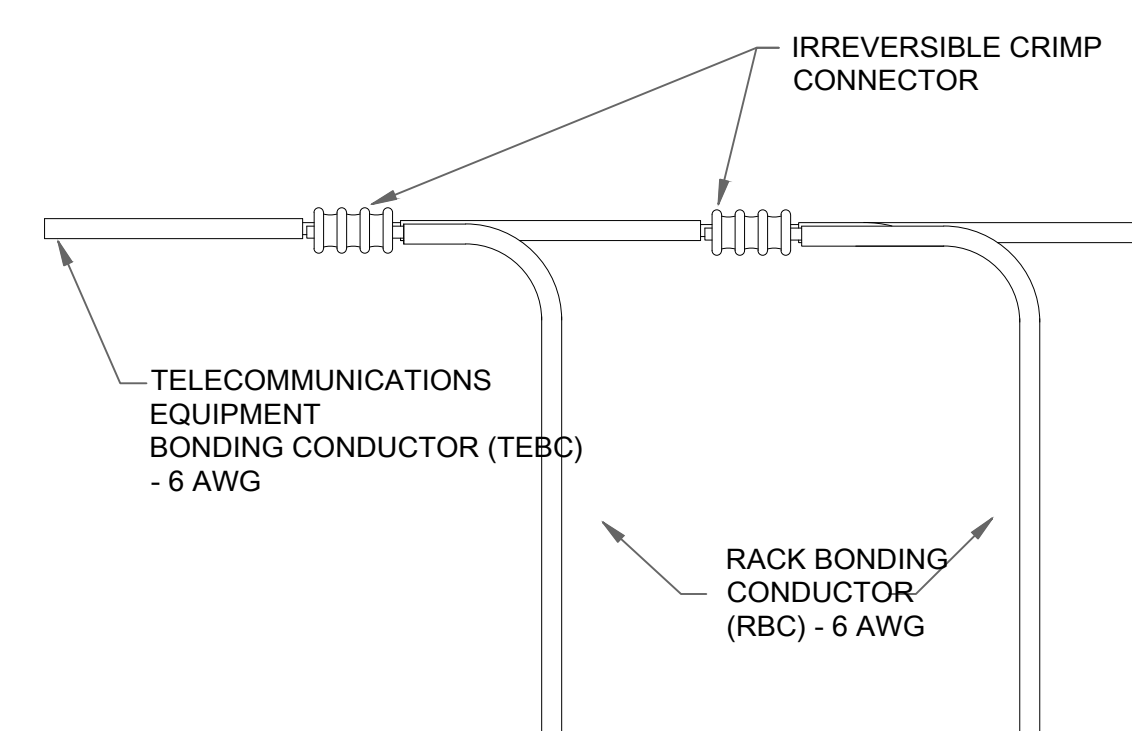


- NOTES:
1. PREDRILLED BOLT HOLE SIZE AND SPACING AS REQUIRED FOR INDICATED TERMINATIONS.
  2. PROVIDE LENGTH SUFFICIENT FOR ALL INDICATED TERMINATIONS AND 20% SPARE MOUNTING SPACE.
  3. GROUND BAR SHALL BE MOUNTED MINIMUM 2" OFF WALL AND 12" AFF.
  4. FIBERGLASS INSULATORS SHALL HAVE A MINIMUM DIELECTRIC STRENGTH OF 15KV.

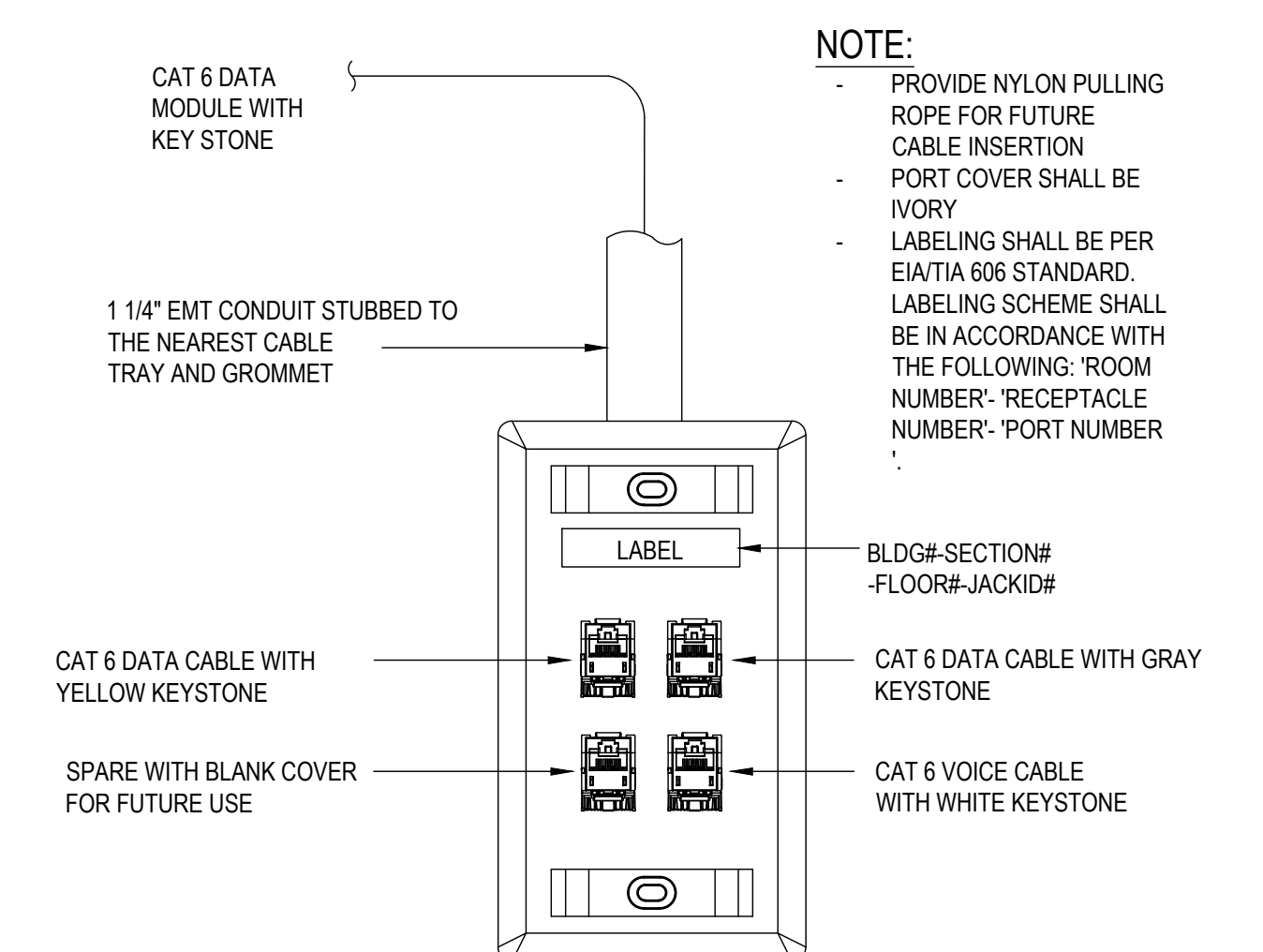
#### 4 GROUND BUS DETAIL




## 5 TYPICAL BONDING REQUIREMENTS FOR IT EQUIPMENT ENCLOSURES





## 6 TYPICAL BONDING CONNECTION REQUIREMENTS



PLAN SYMBOL 

**7 DATA OUTLET**

NTS

		CONSULTANT	<div>ARCHITECT/ENGINEER OF RECORD</div> <div><div>3300 Dundee RD. Northbrook, IL 60062 T: 847.932.9362 <a href="http://www.bancroft-a-e.com">www.bancroft-a-e.com</a> Bancroft Project No: 22-113</div></div>	<div>STAMP</div> <div></div>	<div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div>	Drawing Title	ICT - DETAILS	Phase	ISSUE FOR BID	Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2			Project Number	437-21-210			
ISSUE FOR BID	01-16-24					Approved: Project Director				Location	FARGO VA HEALTH CARE SYSTEM			Drawing Number	TT-501			
Revisions:	Date:							BUILDING FULLY SPRINKLERED		Issue Date	01/16/2024	Checked	cc	Drawn	JG			



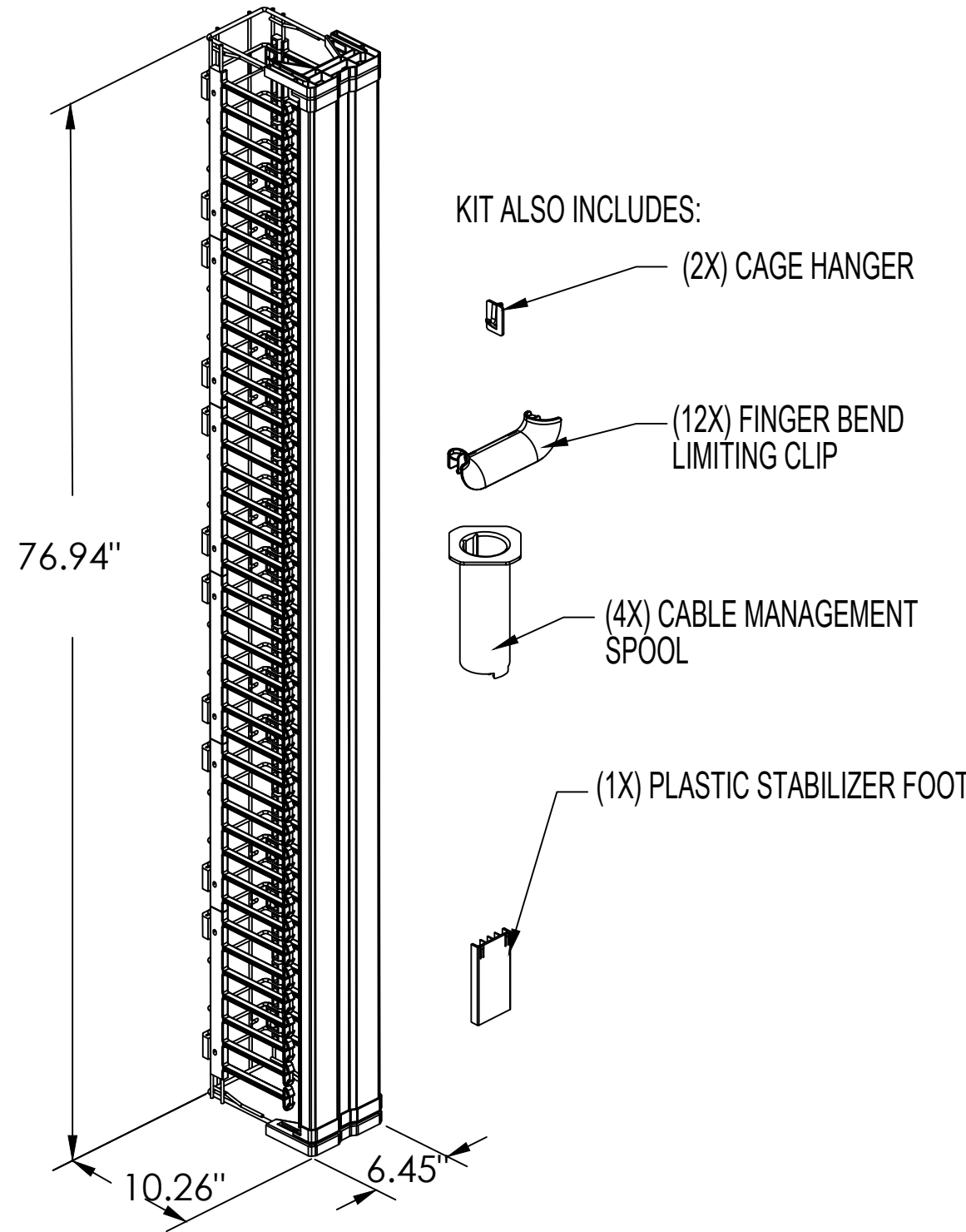








NOTE: TELECOMMUNICATION CHANNEL RACKS ARE REQUIRED IN ALL TELECOMMUNICATION ROOMS. TELECOMMUNICATION CHANNEL RACKS OR TELECOMMUNICATION CABINETS MAY BE USED IN THE HORIZONTAL AND MAIN DISTRIBUTION AREAS.



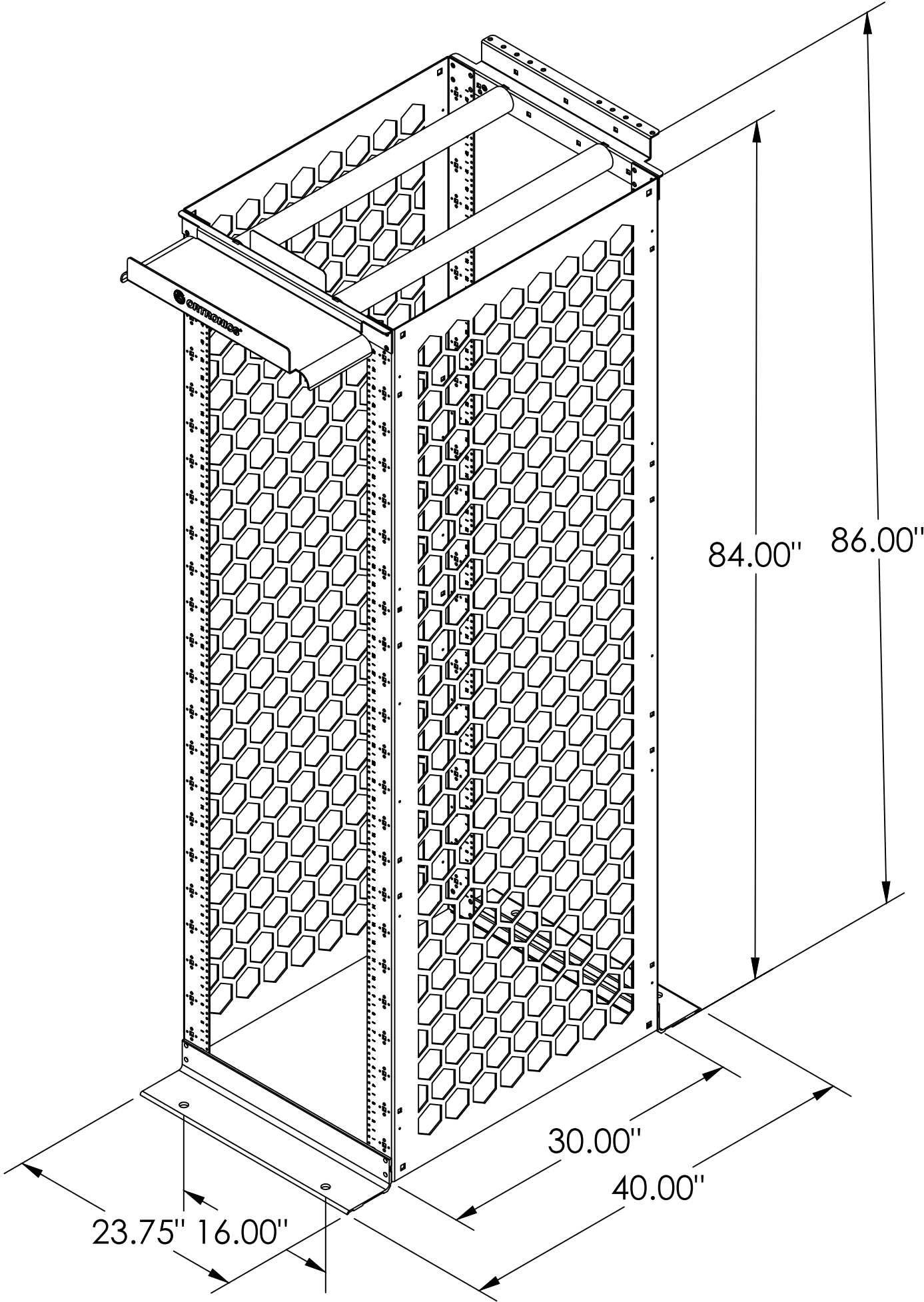
P/N: OR-MM20VMD706 (OR EQUIVALENT)

MM20 VERTICAL CABLE MANAGEMENT "CAGE", WITH DOOR, 6.45" X 10.26" X 76.94" WHITE

CAPACITY: 350 CATEGORY 6 PATCH CORDS OR 245 CATEGORY 6A PATCH CORDS

LARGER VCM AUTHORIZED IN ACCORDANCE WITH CABLING REQUIREMENT

1 6" VERTICAL CABLE MANAGER  
NTS

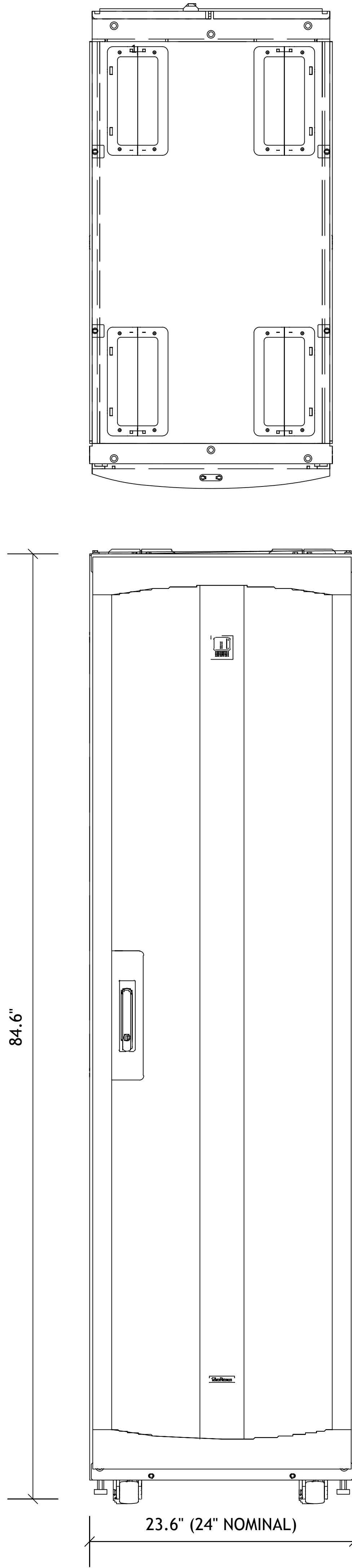


P/N: OR-MM2073038-W (OR EQUIVALENT)

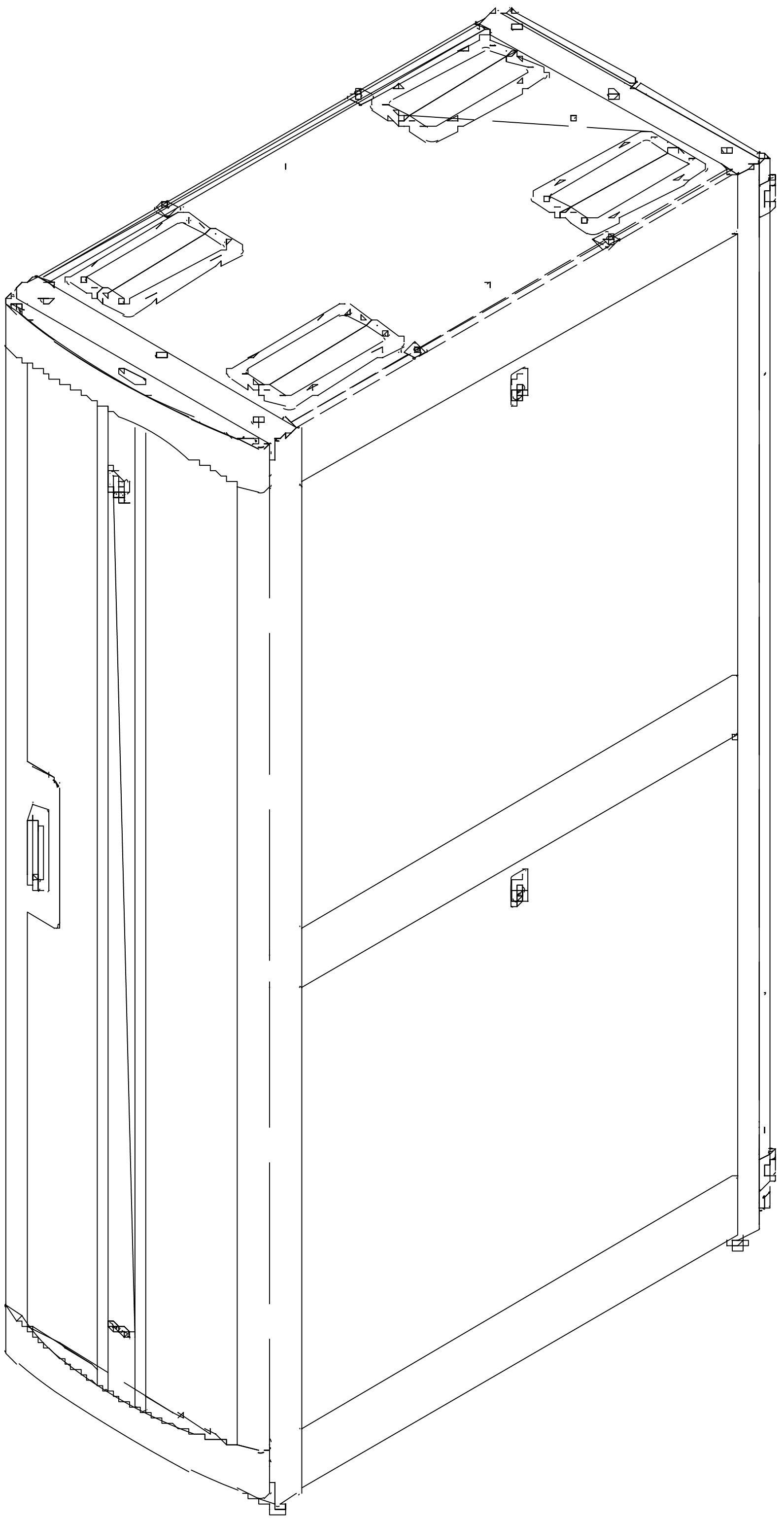
MIGHTY MO 20 CABLE MANAGEMENT RACK  
30" CHANNEL DEPTH, 7" HIGH, WHITE FINISH OR EQUIVALENT

DIMENSIONS:  
USABLE HEIGHT: 45RU  
DEPTH (US): 30  
HEIGHT (US): 7"  
WIDTH (US): 23.75"  
STATIC LOAD CAPACITY: 2000 LBS  
SQUARE HOLE

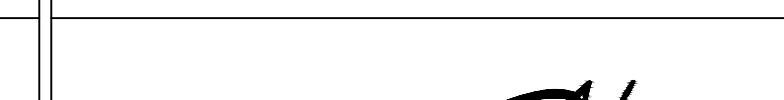

2 TYPICAL RACK DIMENSIONS + SPECIFICATIONS  
NTS



3 TYPICAL SERVER CABINET (FRONT VIEW)  
NTS



4 TYPICAL SERVER CABINET SPECIFICATION  
NTS

		CONSULTANT	<div><div><div><div>3300 Dundee RD, Northbrook, IL 60062 T: 847.932.9362 E: info@bancroft-ae.com www.bancroft-ae.com Bancroft Project No: 22-113</div></div></div></div>	STAMP <div><div></div></div>	<div><div><div>Office of Construction and Facilities Management</div><div><div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div></div></div></div>	Drawing Title ICT - DETAILS	Phase ISSUE FOR BID	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number 437-21-210	Building Number				
ISSUE FOR BID	01-16-24					Approved: Project Director	BUILDING FULLY SPRINKLERED	Location FARGO VA HEALTH CARE SYSTEM	Issue Date 01/16/2024	Checked cc	Drawn JCG	Drawing Number TT-504		
Revisions:	Date:													



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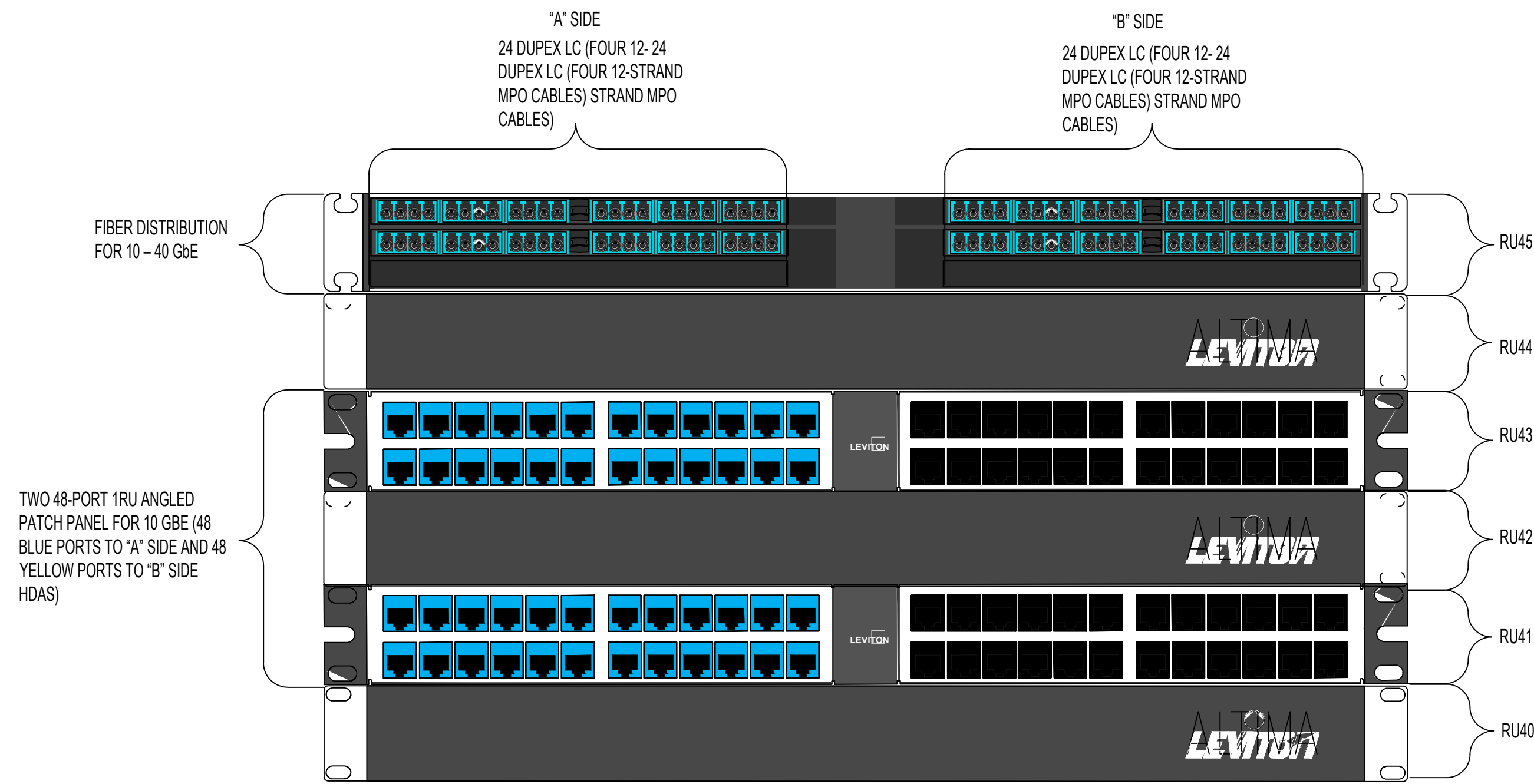
D

E

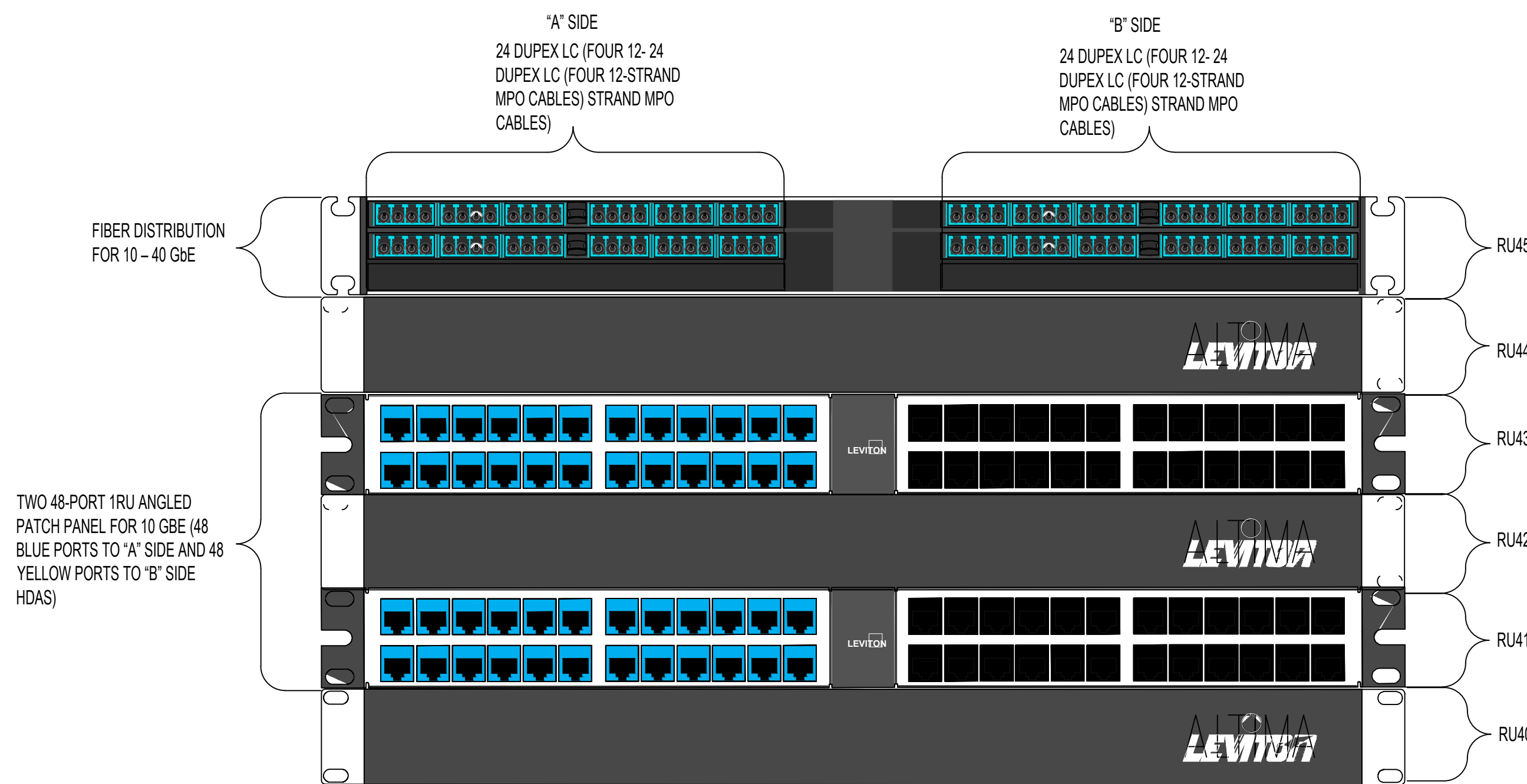
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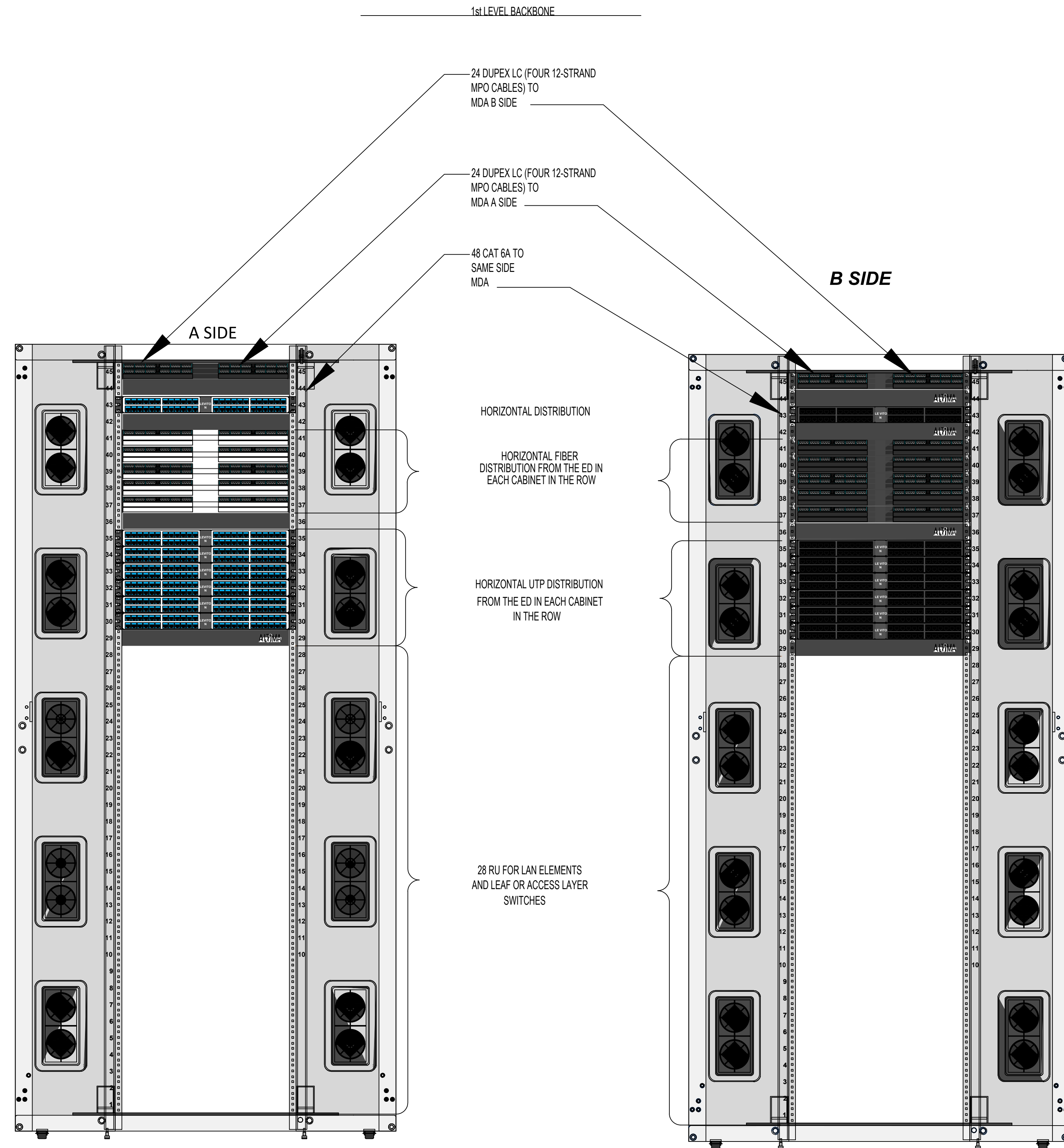
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2 HIGH DENSITY EQUIPMENT DISTRIBUTOR ELEVATION FOR CABINETS  
NTS



3 STANDARD DENSITY EQUIPMENT DISTRIBUTOR ELEVATION FOR CABINETS  
NTS



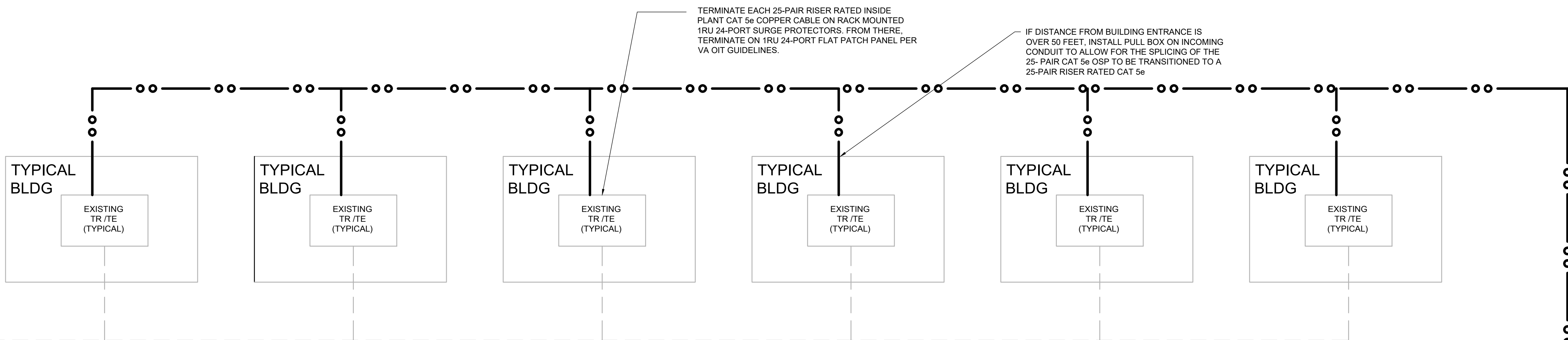
1 TYPICAL END OF ROW HORIZONTAL DISTRIBUTION AREA  
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VA FORM 08 - 6231

PROPERTY LINE



MAIN BLDG 1-9-46

INSTALL NEW OPTICAL FIBER SPLICE BOX ON WALL OR AGAINST CEILING COORDINATE EXACT LOCATION WITH A COR. LOCATION WILL BE ALONG WHERE EXISTING ROUTE "A" CABLING TERMINATES. FUSION SPLICE AND EXTEND EQUAL QUANTITY AND TYPE OF INSPLICE BOX AND EXTEND OPTICAL FIBER CABLING TO NEW MCR ON 4TH FLOOR.

INSTALL NEW OPTICAL FIBER SPLICE BOX ON WALL WHERE EXISTING ENTRANCE CABLING TERMINATES. PROVIDE 24-STRAND OM4 MULTI-MODE AND 12-STRAND OS1 SINGLE MODE TERMINATED IN SPLICE BOX AND EXTEND OPTICAL FIBER CABLING TO NEW MCR ON 4TH FLOOR.

ER 1  
EXISTING

NEW  
MCR

BUILDING 1  
FOURTH FLOOR

ER 2  
BUILDING 40  
FIRST FLOOR

TERMINATE EACH 25-PAIR RISER RATED INSIDE PLANT CAT 5e COPPER CABLE ON RACK MOUNTED 1RU 24-PORT SURGE PROTECTORS. FROM THERE, TERMINATE ON 1RU 48-PORT FLAT PATCH PANEL PER VA OIT GUIDELINES.

INSTALL NEW OUTSIDE PLANT (OSP) 25-PAIR CAT 5E COPPER CABLING IN SPARE CONDUIT ALONG ROUTE "B" TO ALL TR's AND TE's. TERMINATE ON RACK MOUNTED PROTECTION. GROUND PER NEC.

INSTALL SPLICE CASE TO TRANSITION CAT 5e OSP TO RISER RATED CAT 5e.

LEGEND

ROUTE A ---  
ROUTE B ---  
CARRIER 1 ER 1  
CARRIER 2 ER 2

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

STAMP

Office of  
Construction  
and Facilities  
Management

VA

U.S. Department  
of Veterans Affairs

Drawing Title  
ICT - SCHEMATIC

Approved: Project Director

Phase  
ISSUE FOR BID

BUILDING FULLY  
SPRINKLERED

Project Title  
EHRM INFRASTRUCTURE  
UPGRADES - TIER 2

Location  
FARGO VA HEALTH CARE SYSTEM

Issue Date  
01/16/2024

Checked  
cc

Drawn  
JCG

ISSUE FOR BID - 01/16/2024

Project Number  
437-21-210

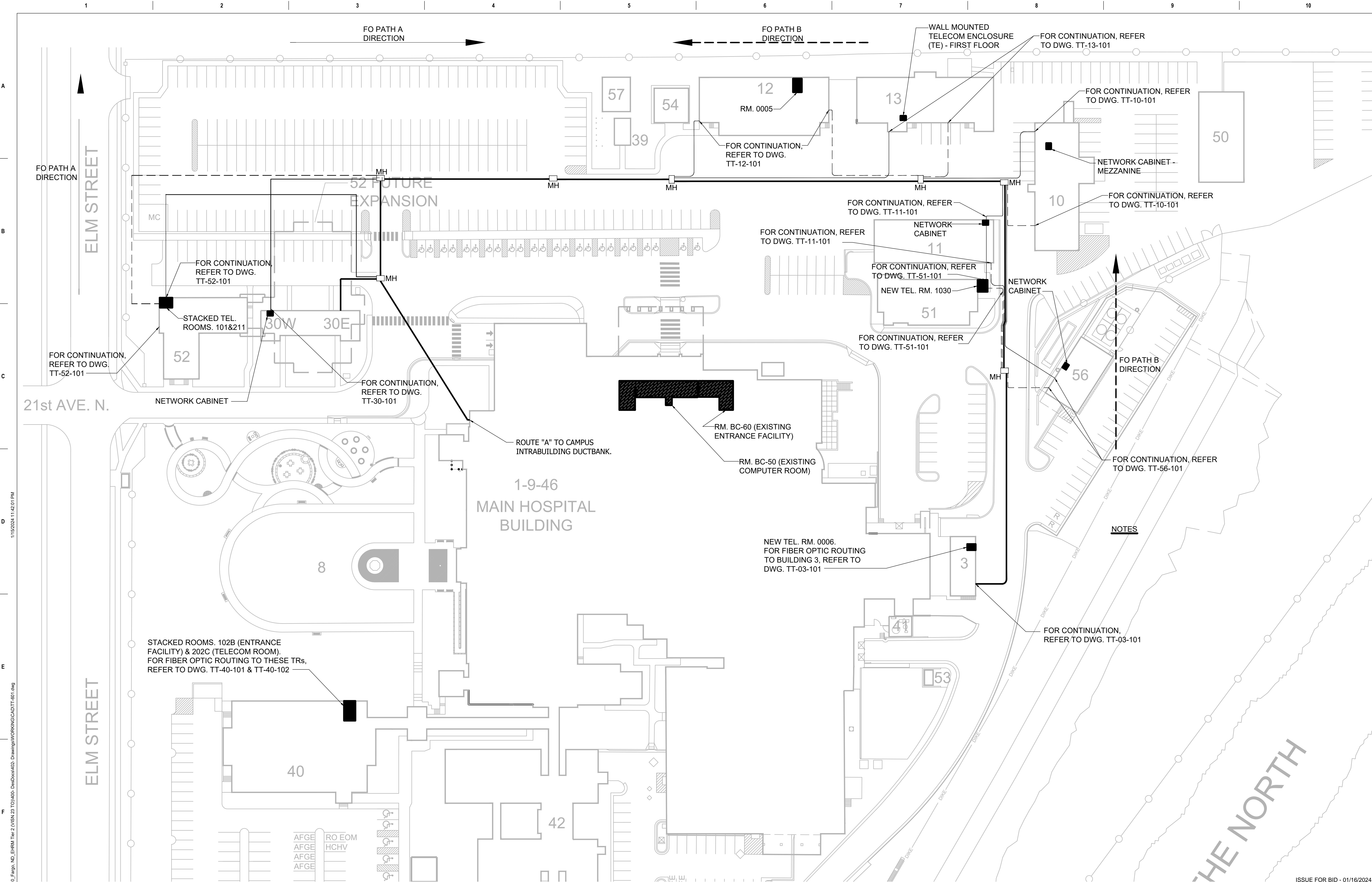
Building Number

Drawing Number

TT-600

ISSUE FOR BID  
Revisions:  
01-16-24  
Date:

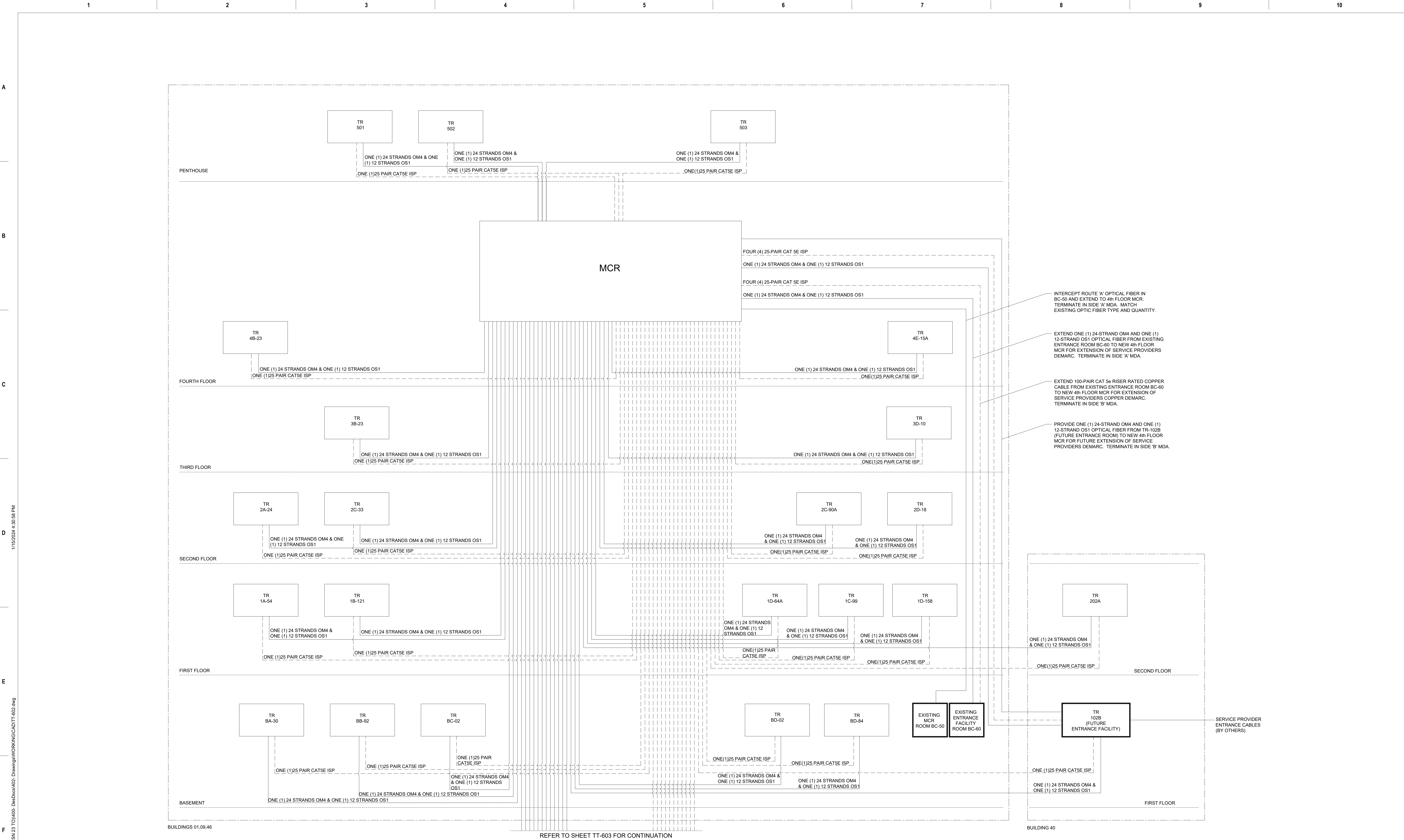




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ISSUE FOR BID		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title ICT- EXISTING SITE PLAN FARGO TIER 1	Phase ISSUE FOR BID	Project Title EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number 437-21-210
Revisions:						Approved: Project Director		Location FARGO VA HEALTH CARE SYSTEM	Building Number
Date: 01-16-24								Issue Date 01/16/2024	Drawing Number TT-601
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1 BACKBONE CABLING RISER DIAGRAM

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