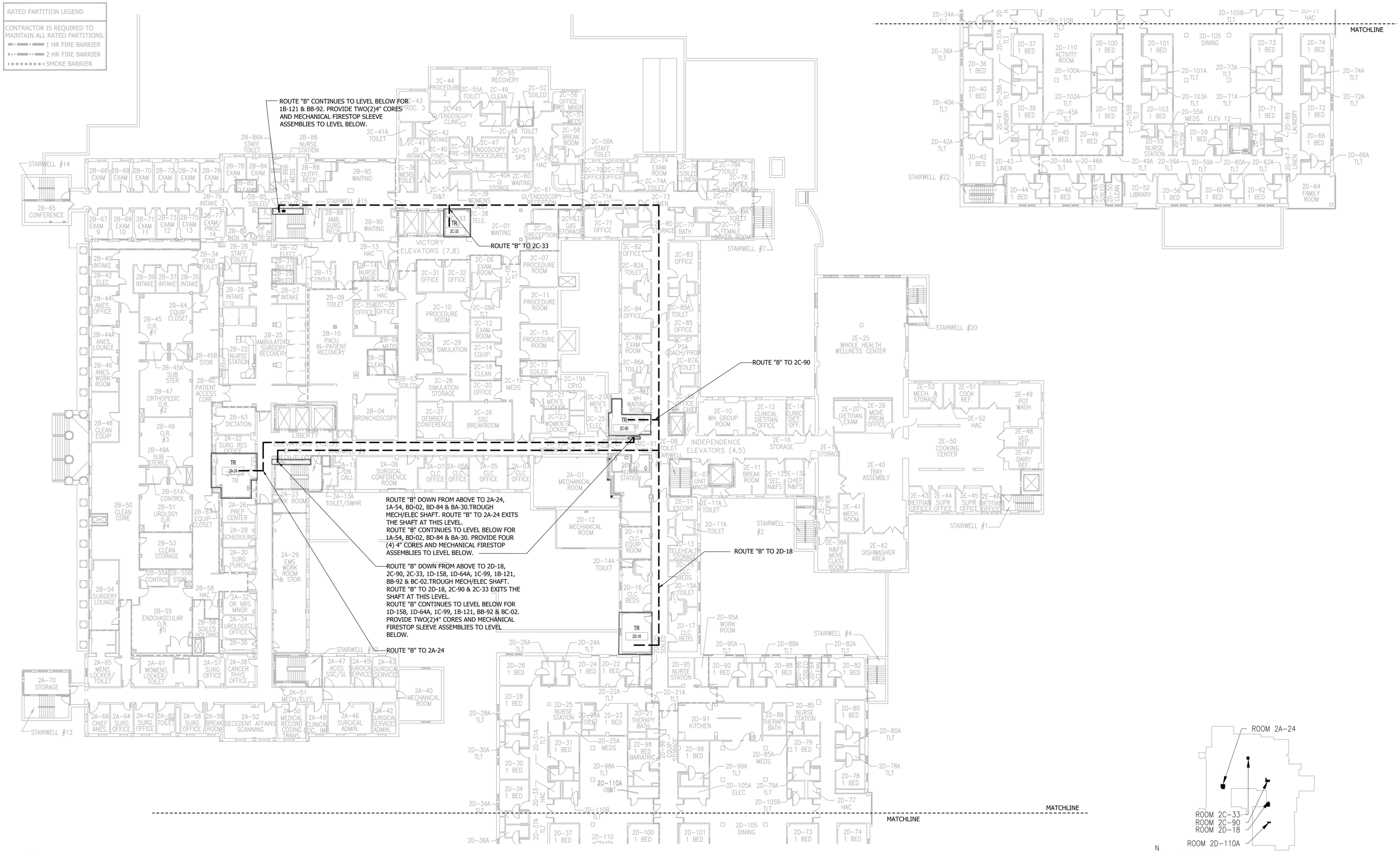

1 BUILDING 1, 9, 46 - OVERALL SECOND FLOOR ROUTING PLAN
1/16"=1'-0"

KEY PLAN

ISSUE FOR BID - 01/16/2024

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

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VA U.S. Department of Veterans Affairs

Drawing Title: ICT - BUILDING 1-9-46 - SECOND ROUTING PLAN

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	Checked	Drawn
01/16/2024	CC	JCG

Project Number: 437-21-210

Building Number: 1-9-46

Drawing Number: TT-B01-121

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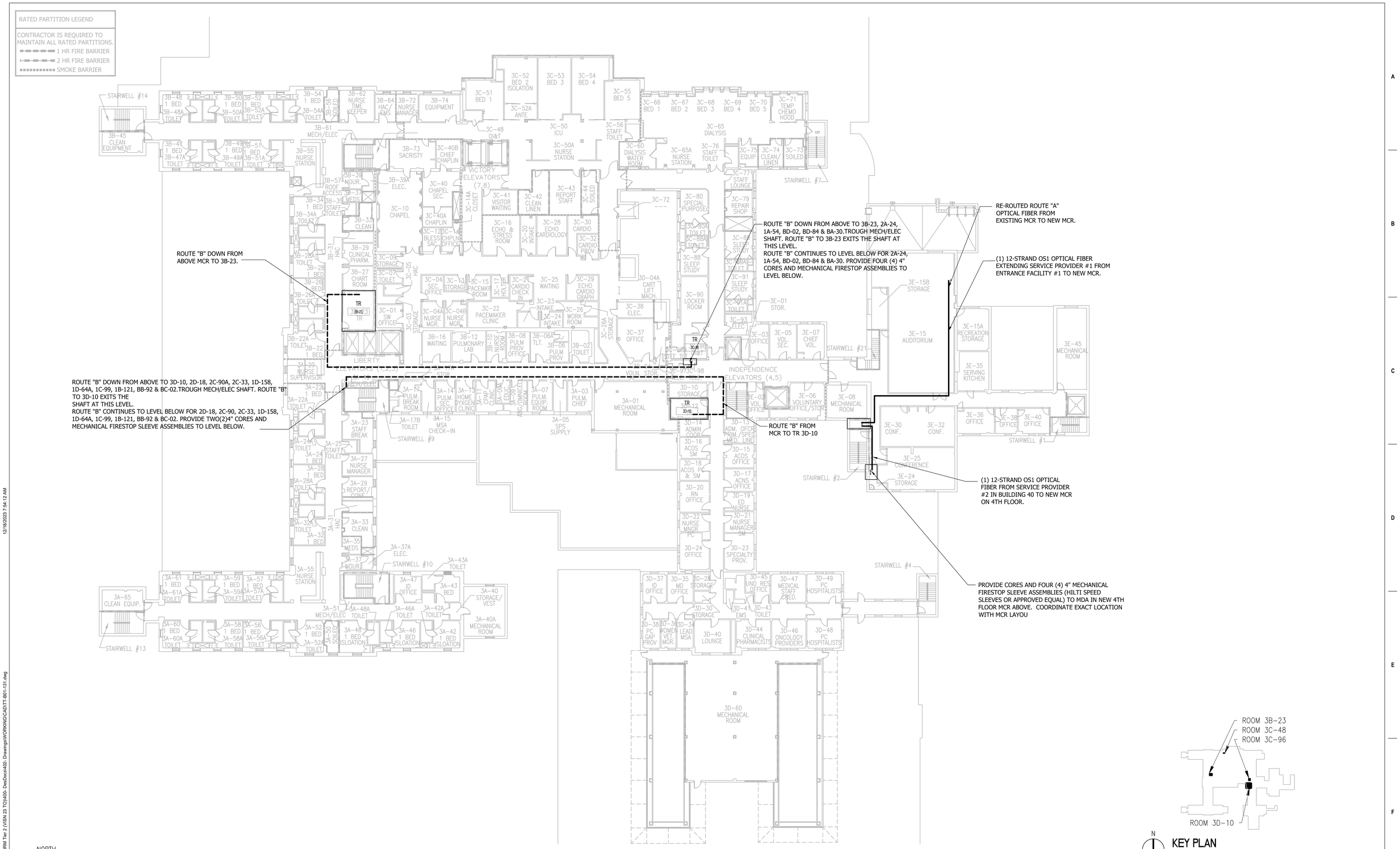
VA FORM 08 - 6231



1 BUILDING 1, 9, 46 - OVERALL THIRD FLOOR ROUTING PLAN
1/16"=1'-0"

ISSUE FOR BID - 01/16/2024

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

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Drawing Title: ICT - BUILDING 1-9-46 - THIRD ROUTING PLAN

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

Project Number: 437-21-210

Building Number: 01-09-46

Drawing Number: TT-B01-131

VA FORM 08 - 6231

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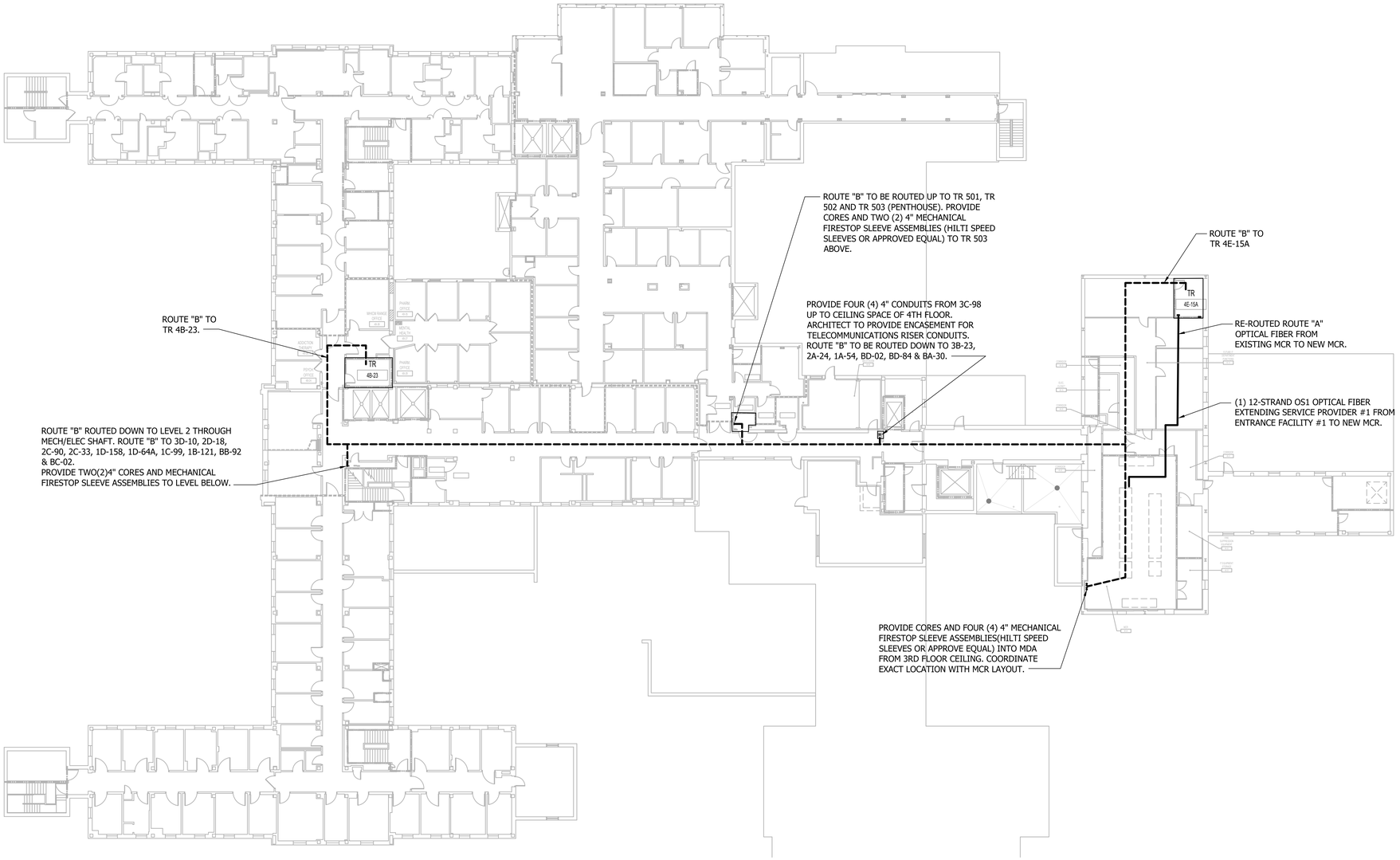
RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



NORTH

1 BUILDING 1, 9, 46 - OVERALL FOURTH FLOOR ROUTING PLAN

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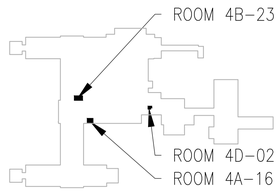

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KEY PLAN

ISSUE FOR BID - 01/16/2024

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

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Drawing Title: ICT - BUILDING 1-9-46 - FOURTH ROUTING PLAN

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	Checked	Drawn
01/16/2024	CC	JCG

Project Number: 437-21-210

Building Number: 1-9-46

Drawing Number: TT-B01-141

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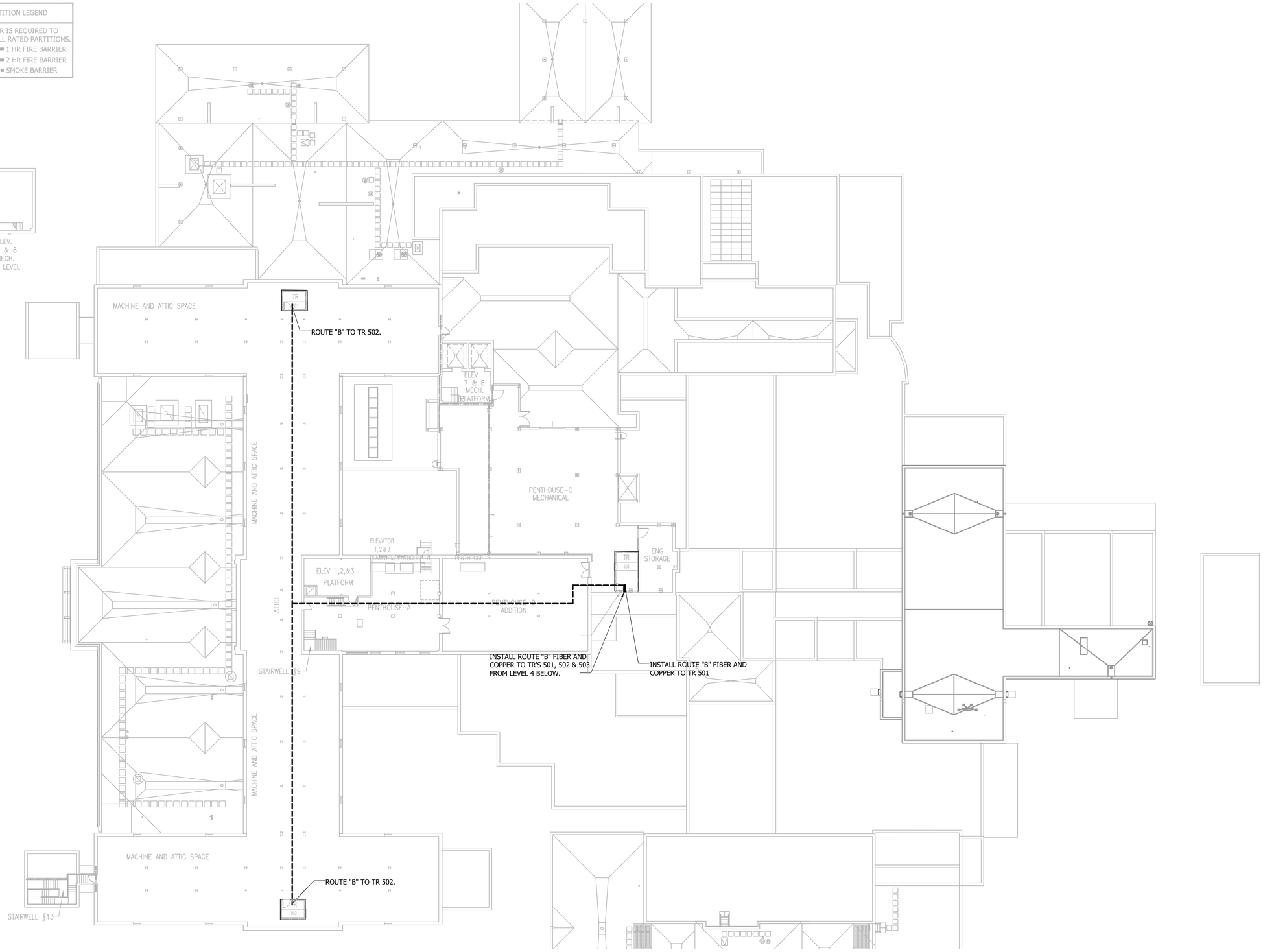
RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



1 OVERALL PENTHOUSE ROUTING PLAN

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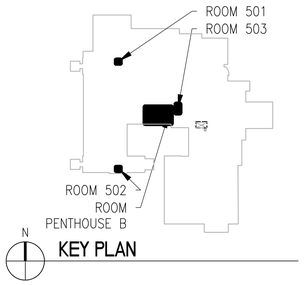

KEY PLAN

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

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Drawing Title: ICT - BUILDING 1-9-46 - PENTHOUSE ROUTING PLAN

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: 1-9-46

Drawing Number: TT-B01-151

VA FORM 08 - 6231

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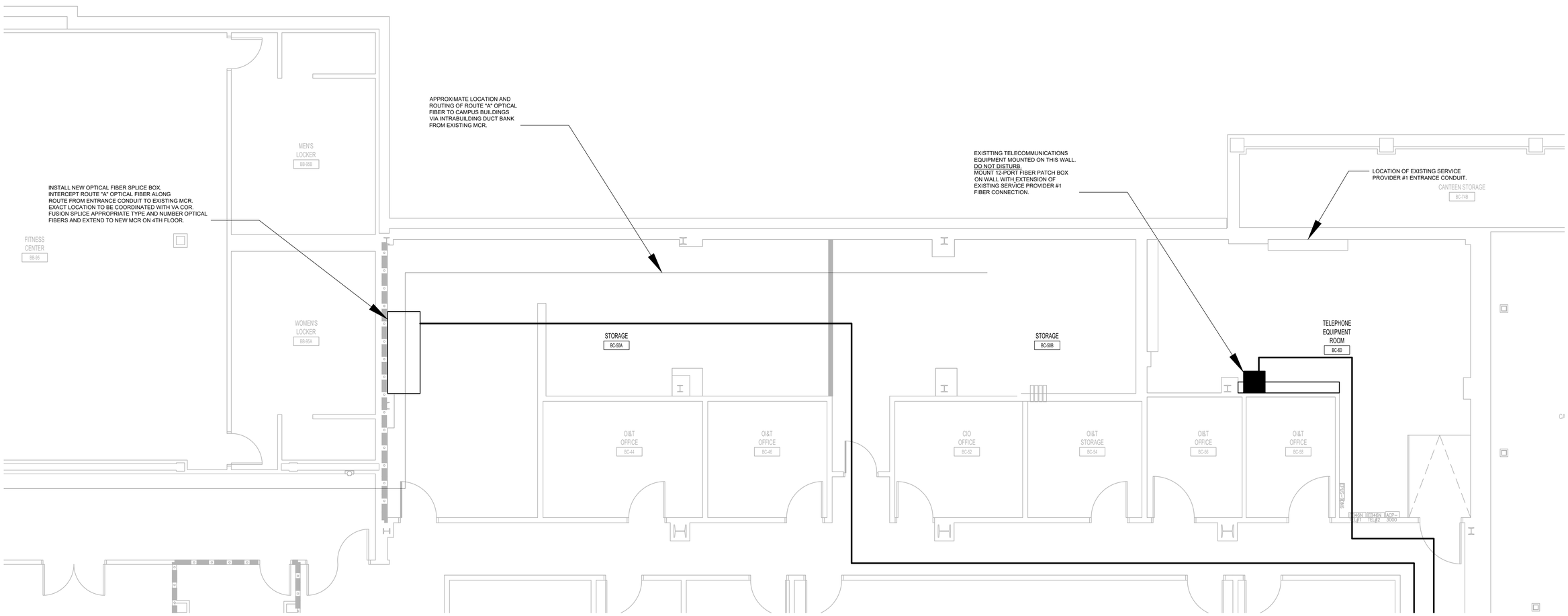
RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



1 BUILDING 1-9-46 - ENLARGED PLAN CPU RM. BC-50

1/4"=1'-0"

ISSUE FOR BID - 01/16/2024

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

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Drawing Title: ICT - BUILDING 1-9-46 - ENLARGED PLAN - BASEMENT	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Building Number: 1-9-46
		Issue Date: 01/16/2024 · Checked: CC · Drawn: JCG	Drawing Number: TT-B01-401

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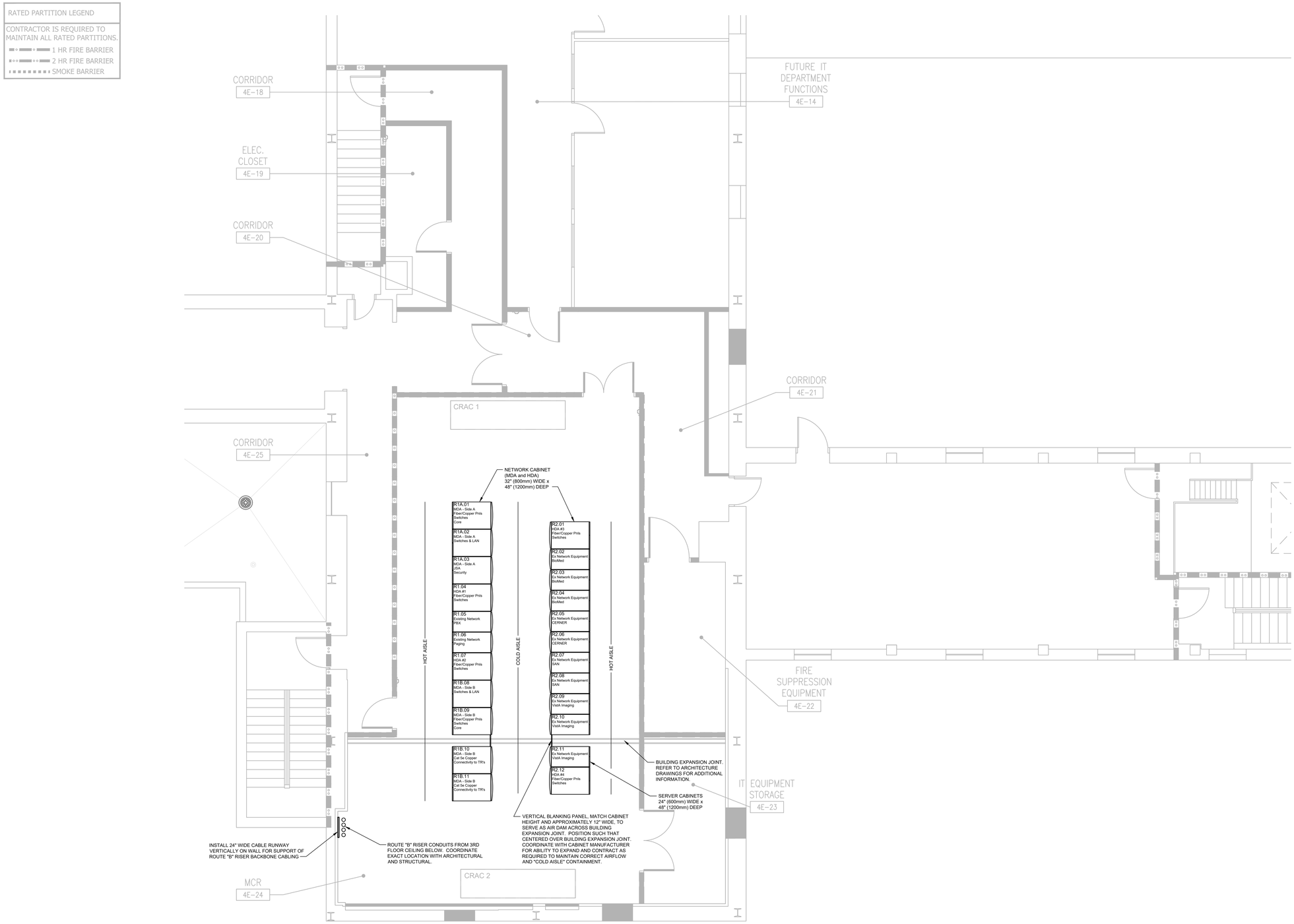
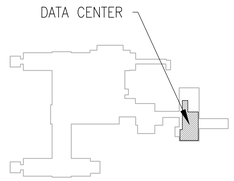


1 TELECOMMUNICATIONS - BUILDING 1 - MAIN COMPUTER ROOM (MCR) PLAN
1/4"=1'-0"



2 KEYPLAN BUILDING 1-9-46
NTS

ISSUE FOR BID - 01/16/2024

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

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Expires 01/16/2024
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VA U.S. Department of Veterans Affairs

Drawing Title	ICT - BUILDING 1 - 9 - 46 MCR ENLARGED PLAN
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	CK CC
Drawn	CK CC
Project Number	437-21-210
Building Number	1
Drawing Number	TT-B01 - 402

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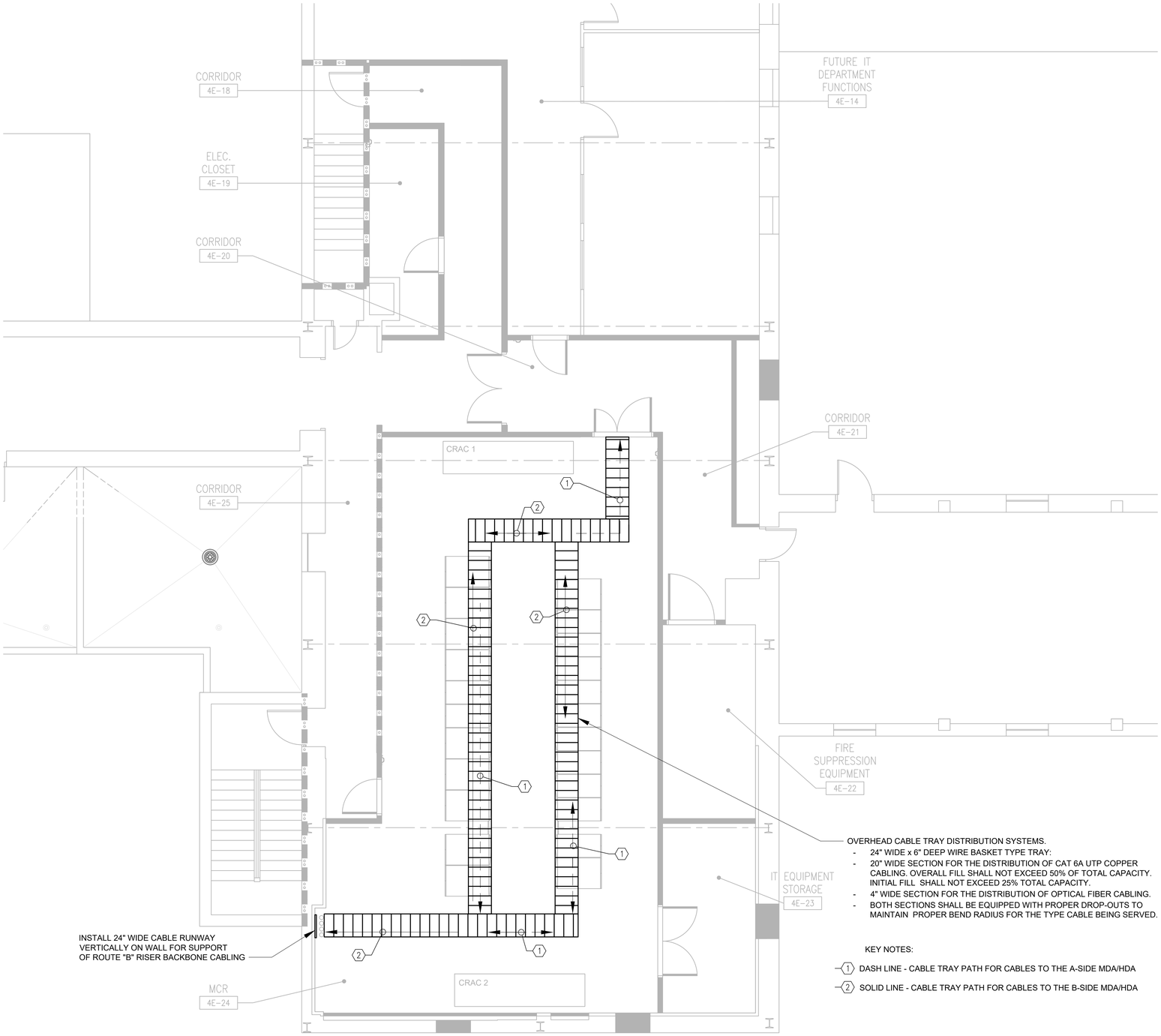
VA FORM 08 - 6231

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER

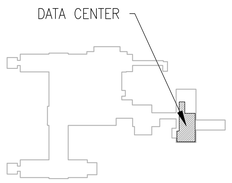


OVERHEAD CABLE TRAY DISTRIBUTION SYSTEMS.

- 24" WIDE x 6" DEEP WIRE BASKET TYPE TRAY:
- 20" WIDE SECTION FOR THE DISTRIBUTION OF CAT 6A UTP COPPER CABLING. OVERALL FILL SHALL NOT EXCEED 50% OF TOTAL CAPACITY. INITIAL FILL SHALL NOT EXCEED 25% TOTAL CAPACITY.
- 4" WIDE SECTION FOR THE DISTRIBUTION OF OPTICAL FIBER CABLING.
- BOTH SECTIONS SHALL BE EQUIPPED WITH PROPER DROP-OUTS TO MAINTAIN PROPER BEND RADIUS FOR THE TYPE CABLE BEING SERVED.

KEY NOTES:

1. DASH LINE - CABLE TRAY PATH FOR CABLES TO THE A-SIDE MDA/HDA
2. SOLID LINE - CABLE TRAY PATH FOR CABLES TO THE B-SIDE MDA/HDA



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

ISSUE FOR BID - 01/16/2024

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

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Drawing Title: ICT - BUILDING 1-9-46 MCR ENLARGED CABLE TRAY PLAN

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: CK CC | Drawn: CK CC

Project Number: 437-21-210

Building Number: 1

Drawing Number: TT-B01-403

VA FORM 08 - 6231

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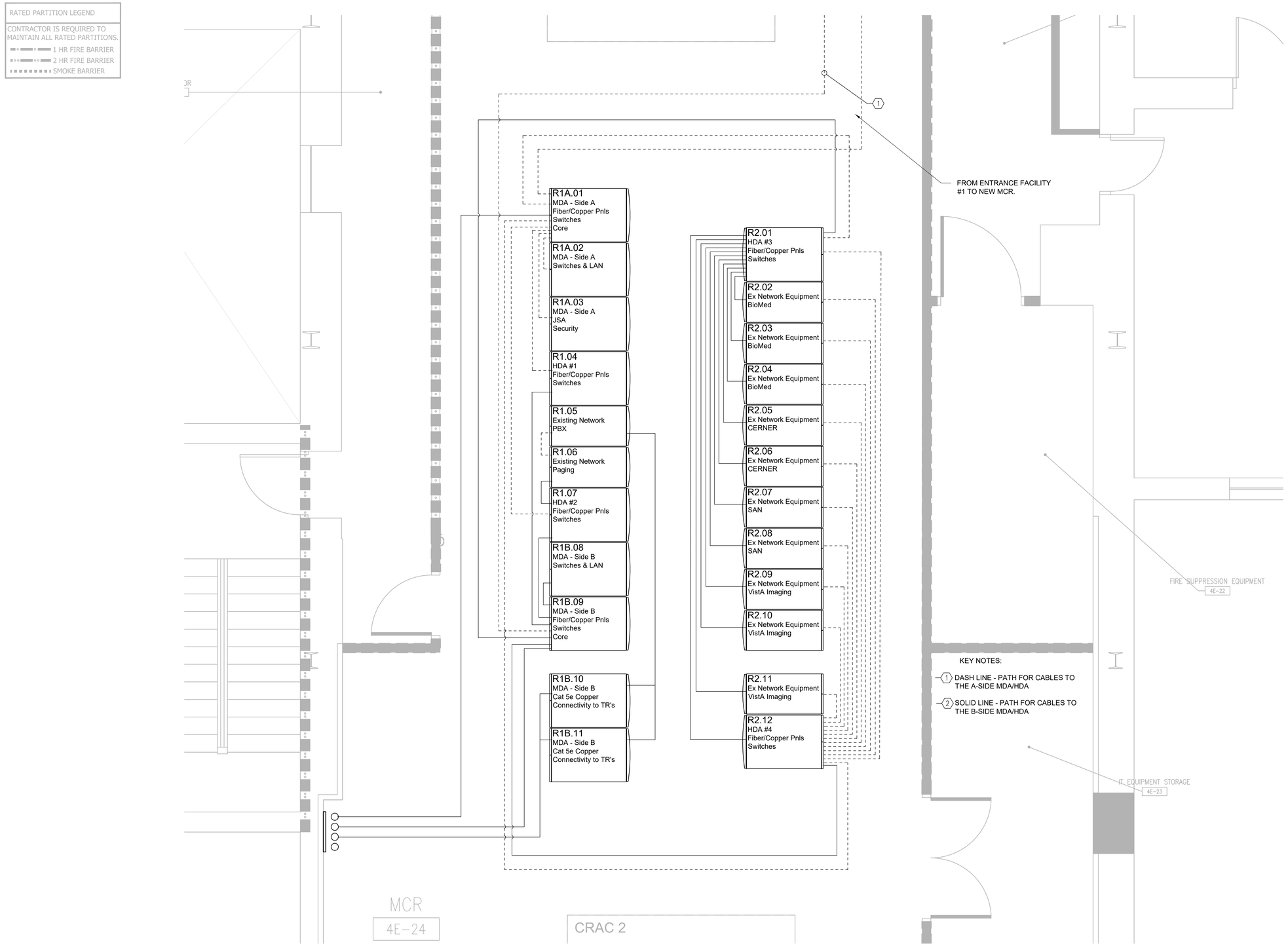
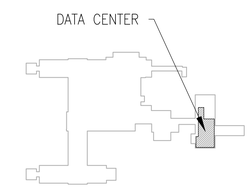


KEY NOTES:

1. DASH LINE - PATH FOR CABLES TO THE A-SIDE MDA/HDA
2. SOLID LINE - PATH FOR CABLES TO THE B-SIDE MDA/HDA

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



2 KEYPLAN BUILDING 1-9-46
NTS

ISSUE FOR BID - 01/16/2024

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

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VA U.S. Department of Veterans Affairs

Drawing Title: ICT - BUILDING 1 - 9 - 46 MCR ENLARGED PLAN

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: CK CC | Drawn: CK CC

Project Number: 437-21-210

Building Number: 1

Drawing Number: TT-B01 - 404

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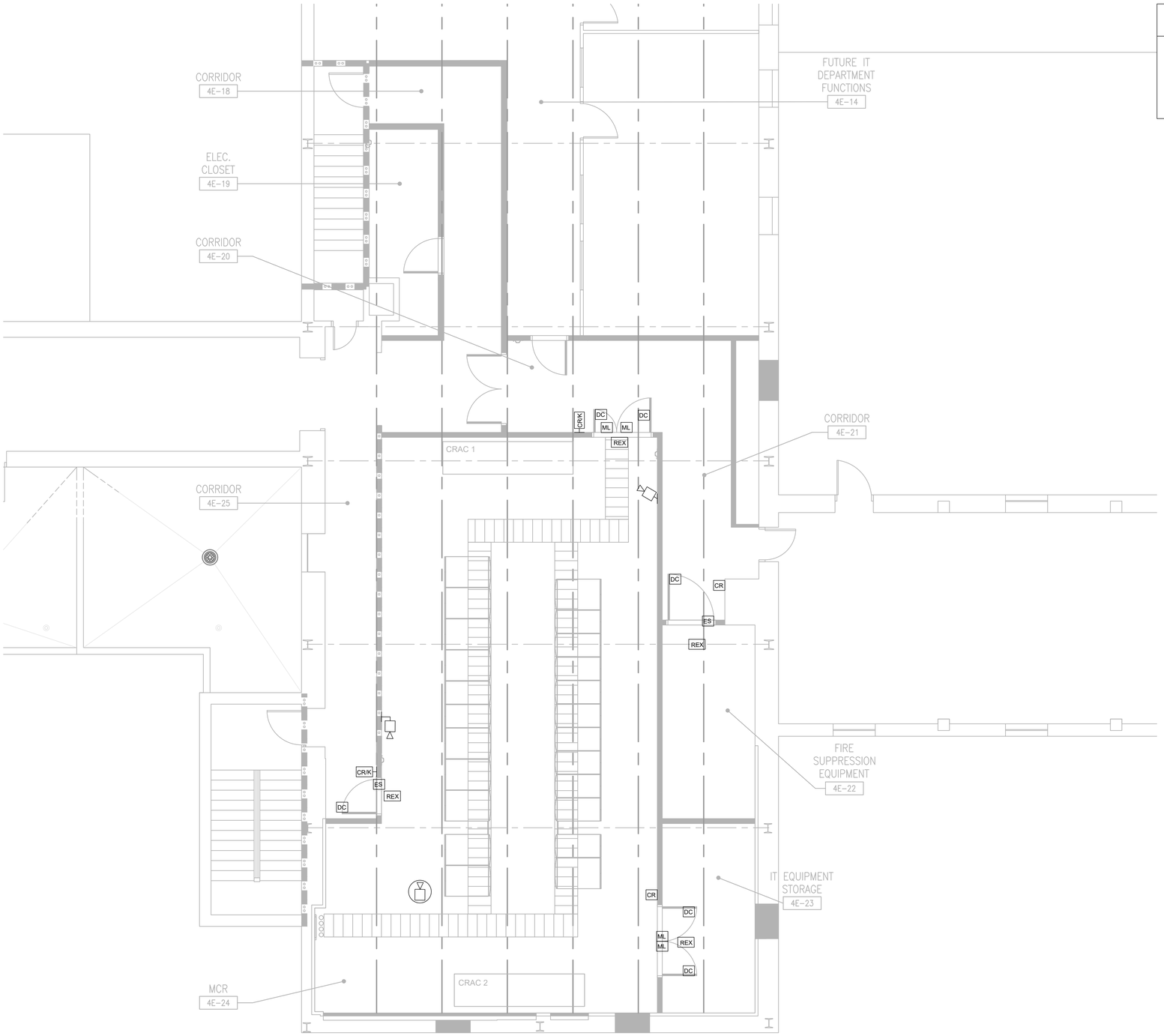
VA FORM 08 - 6231

RATED PARTITION LEGEND

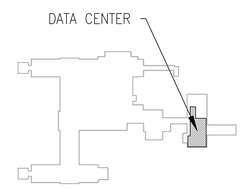
CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 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.



2 KEYPLAN BUILDING 1-9-46

NTS

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

1/4"=1'-0"

ISSUE FOR BID	01-16-24
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Drawing Title: ICT - BUILDING 1-9-46 - MCR ENLARGED PLAN

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	Checked	Drawn
01/16/2024	CC	JG

Project Number: 437-21-210

Building Number: 1

Drawing Number: TT-B01-405

ISSUE FOR BID - 01/16/2024

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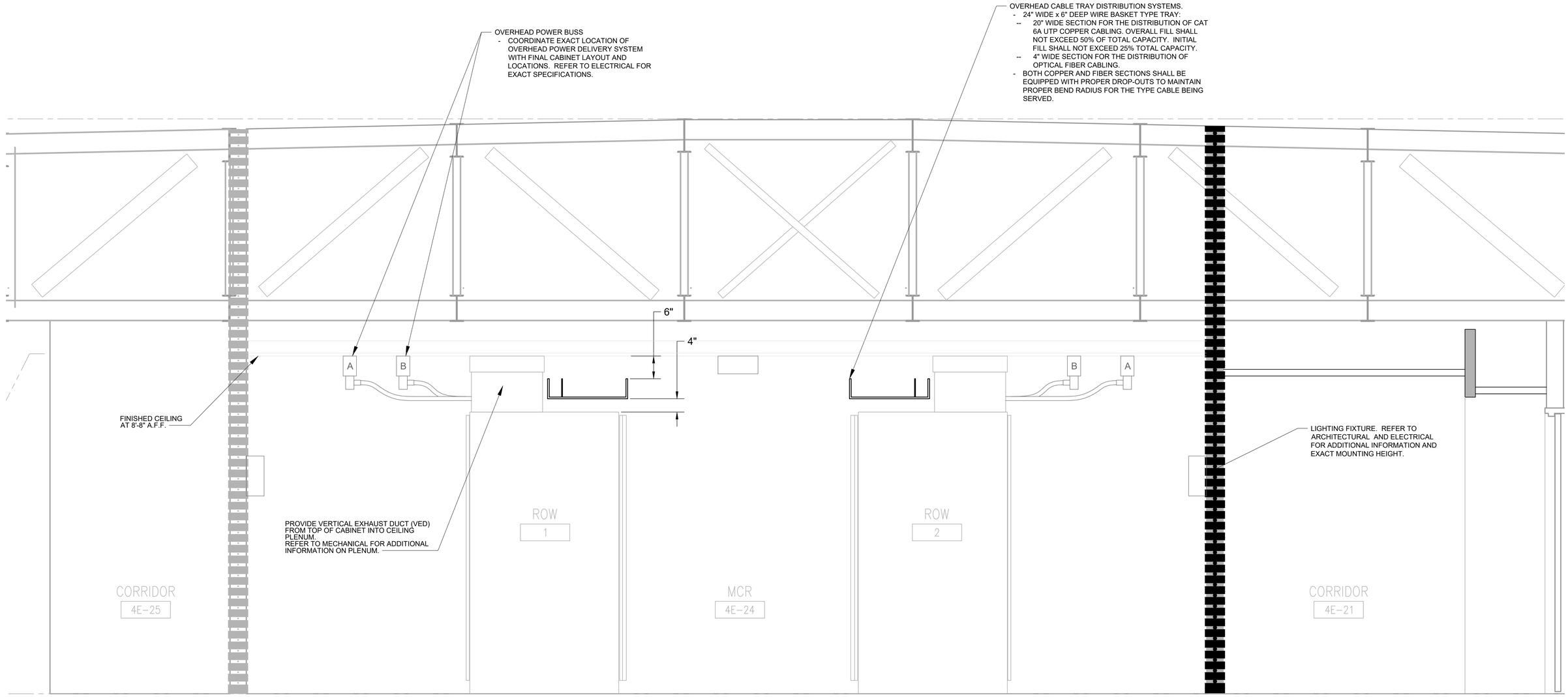
RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



1 ICT - EAST/SECTION - DATA CENTER

1"=1'-0"

0 1/2" 1" 2"

ISSUE FOR BID - 01/16/2024

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

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VA U.S. Department of Veterans Affairs

Drawing Title: ICT - BUILDING 1 - SECTIONS - MCR	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
			Building Number: 1
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number: TT-B01-406
		Issue Date: 01/16/2024 · Checked: CC · Drawn: JCG	

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RATED PARTITION LEGEND

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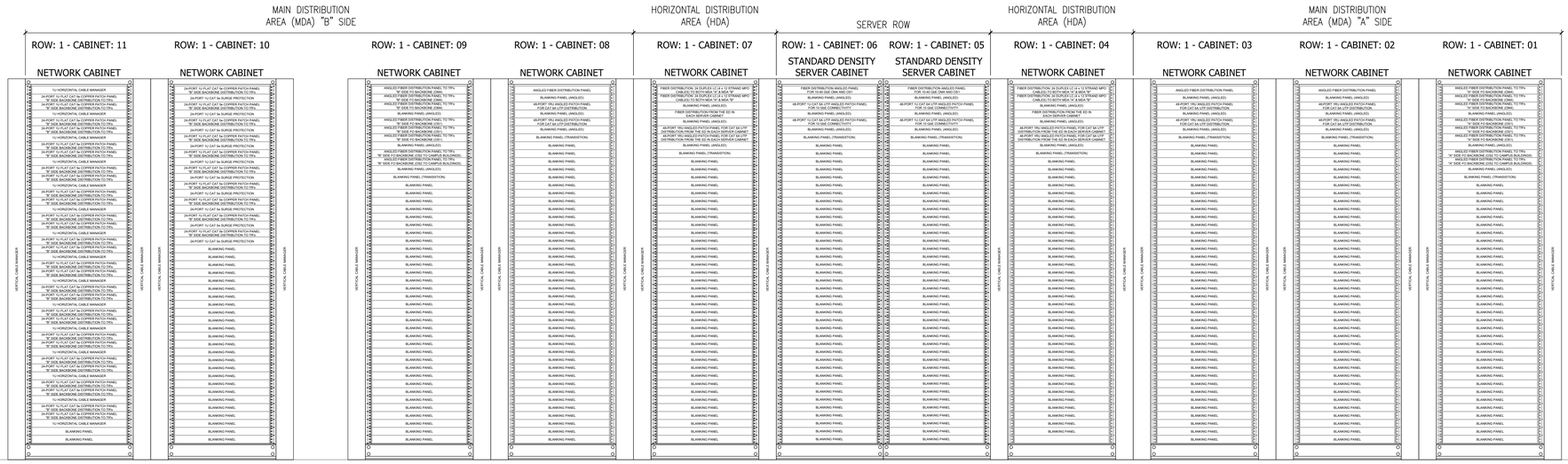
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



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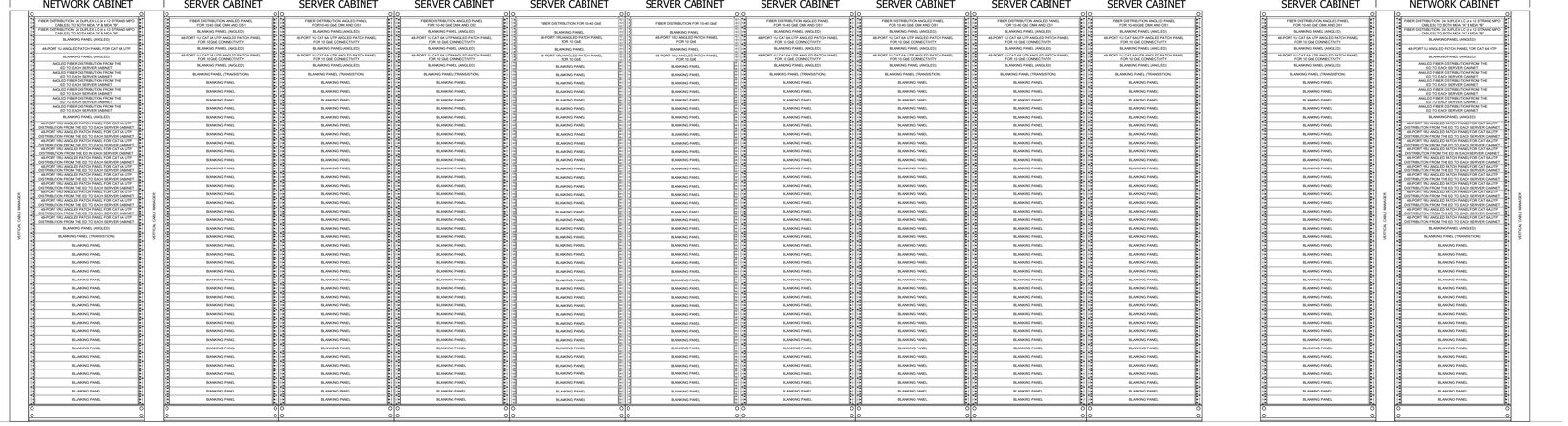

1 ICT - NORTH/SOUTH - DATA CENTER ROW 2

1"=1'-0"

ISSUE FOR BID - 01/16/2024

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

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RCDD Number 18101
Expires 01/01/2024

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VA U.S. Department of Veterans Affairs

Drawing Title: ICT - BUILDING 1 - SECTIONS - MCR

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: 1

Drawing Number: TT-B01-407

VA FORM 08 - 6231

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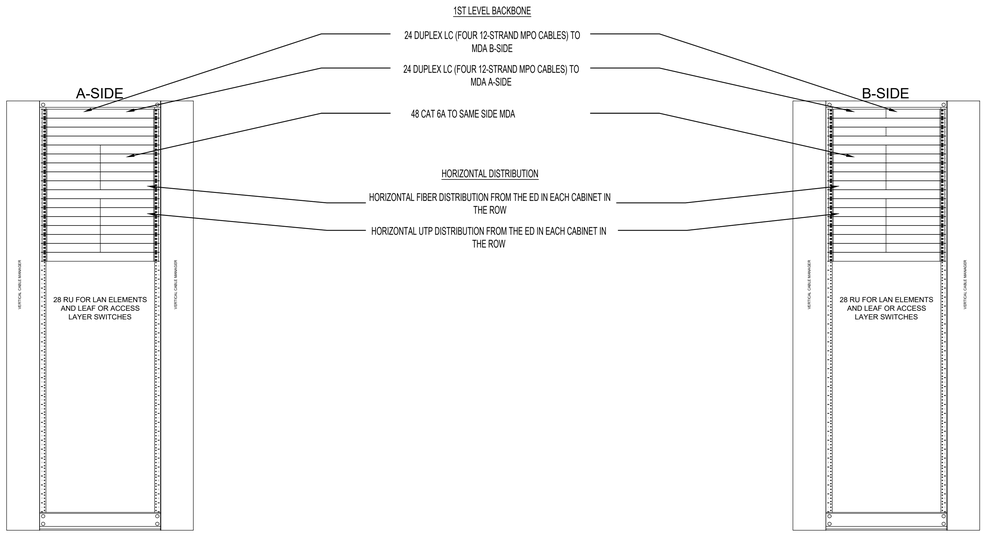
11/15/2024 11:32:49 PM

RATED PARTITION LEGEND

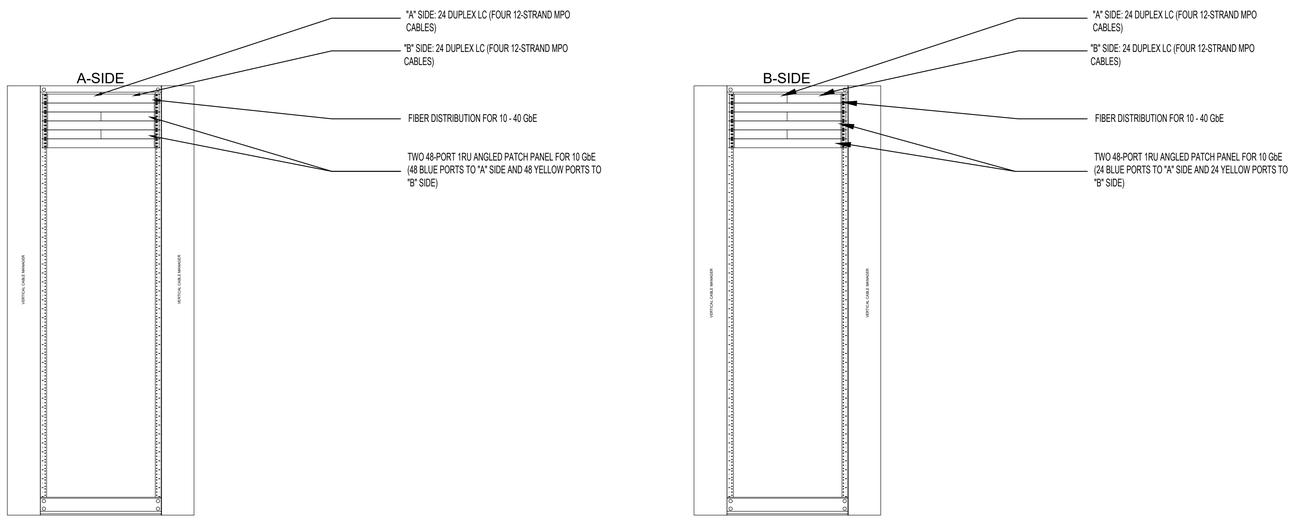
CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



1 TYPICAL END OF ROW HORIZONTAL DISTRIBUTION AREA ELEV (A-SIDE) - (B-SIDE)

NTS



2 TYPICAL HIGH DENSITY EQUIPMENT DISTRIBUTOR (ED) ELEVATION (A-SIDE) - (B-SIDE)

NTS

ISSUE FOR BID - 01/16/2024

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

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VA U.S. Department of Veterans Affairs

Drawing Title: ICT - BUILDING 1 - SECTIONS - MCR	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
			Building Number: 1
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number: TT-B01-408
		Issue Date: 01/16/2024 · Checked: CC · Drawn: JCG	

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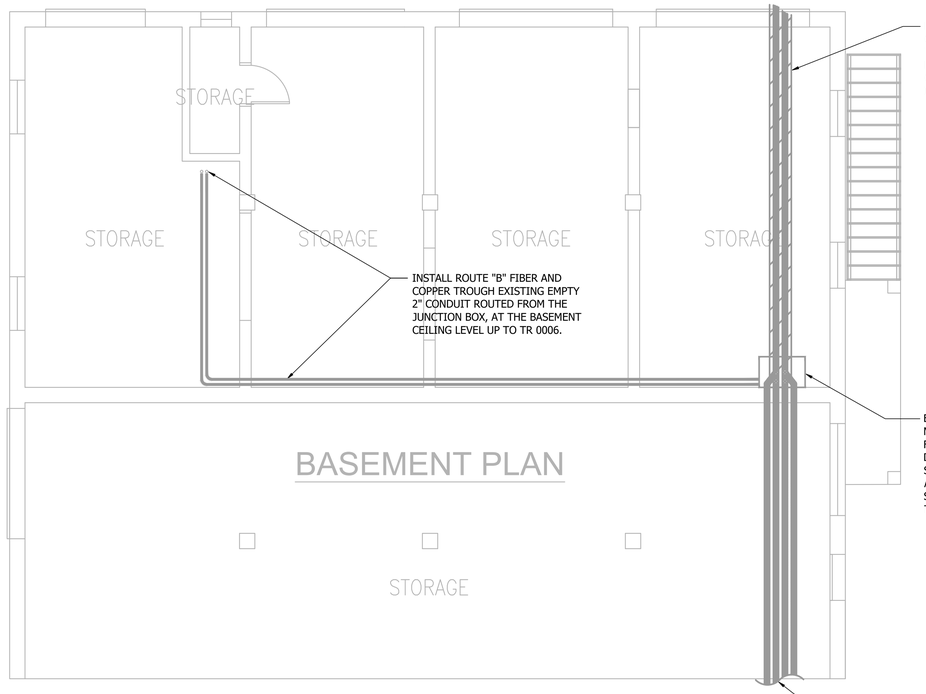
12/18/2023 8:52:49 AM

VA FORM 08 - 6231

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



NORTH

1 BUILDING 03 - OVERALL BASEMENT AND FIRST FLOOR ROUTING PLAN

1/4"=1'-0"

0 1' 2' 4' 8'

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

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VA U.S. Department of Veterans Affairs

Drawing Title: ICT - BUILDING 3 - OVERALL ROUTING PLAN

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

Project Number: 437-21-210

Building Number: 3

Drawing Number: TT-B03-101

ISSUE FOR BID - 01/16/2024

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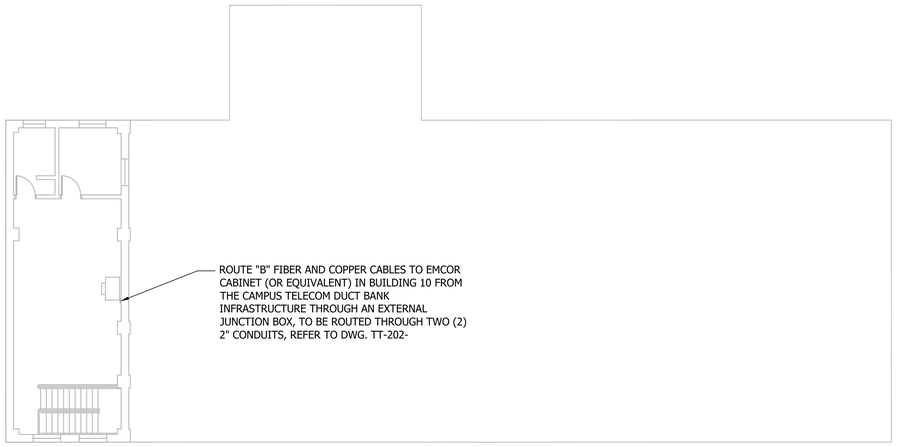
VA FORM 08 - 6231

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

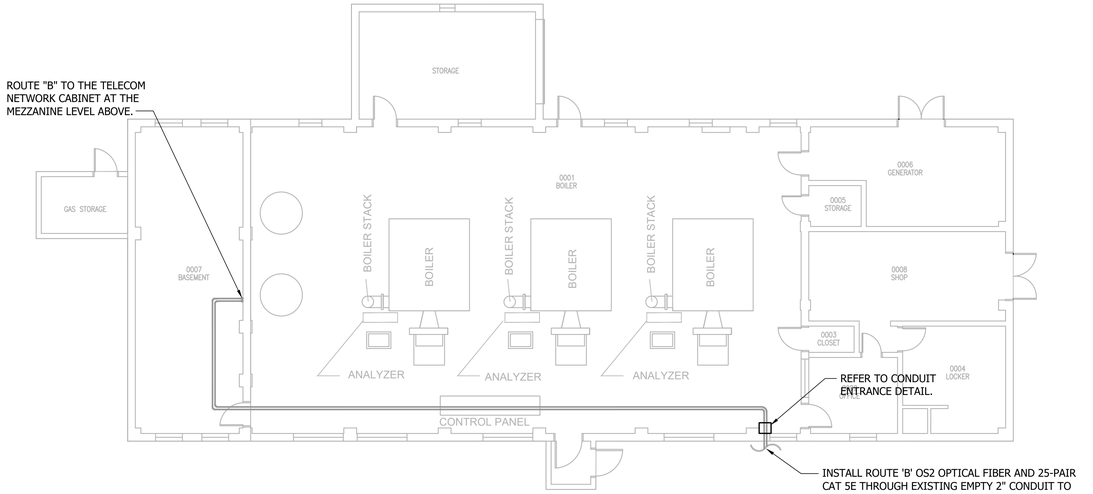
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



NORTH

1 BUILDING 10 - OVERALL MEZZANINE ROUTING PLAN

1/8"=1'-0"



FIRST FLOOR PLAN

NORTH

2 BUILDING 10 - OVERALL FIRST FLOOR ROUTING PLAN

1/8"=1'-0"

ISSUE FOR BID - 01/16/2024

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

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Drawing Title: ICT - BUILDING 10 - OVERALL ROUTING PLAN

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	Checked	Drawn
01/16/2024	CC	JCG

Project Number: 437-21-210

Building Number: 10

Drawing Number: TT-B10-101

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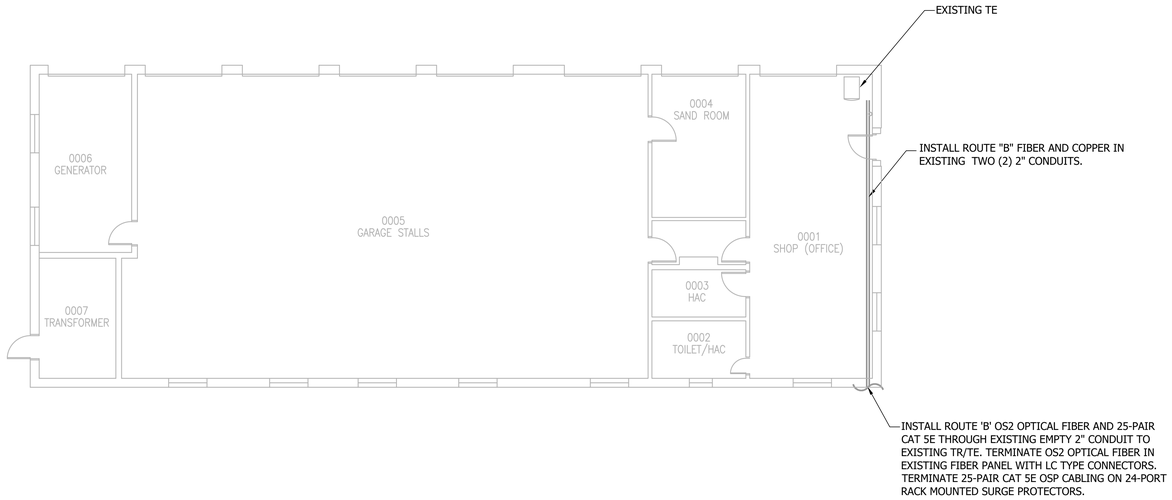
VA FORM 08 - 6231

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'

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

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Drawing Title: ICT - BUILDING 11 - OVERALL ROUTING PLAN

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

Project Number: 437-21-210

Building Number: 11

Drawing Number: TT-B11-101

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VA FORM 08 - 6231

RATED PARTITION LEGEND

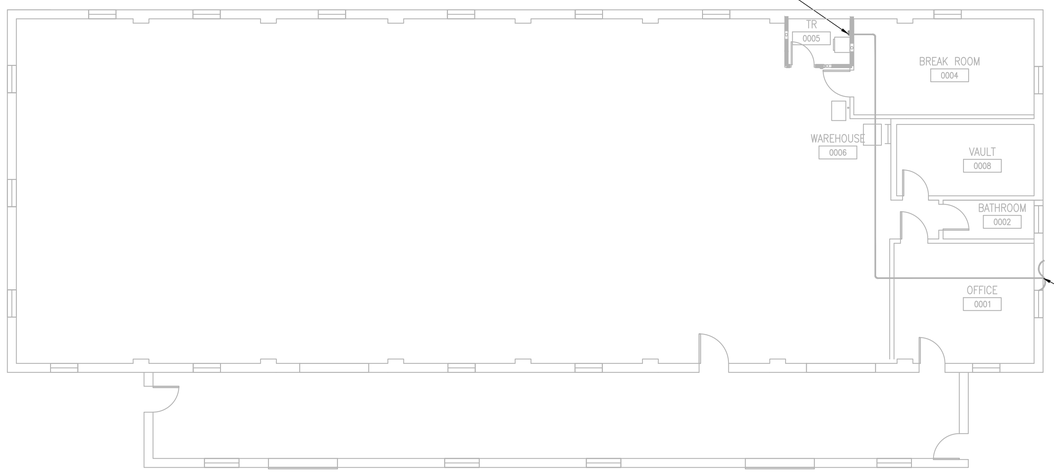
CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER

2 HR FIRE BARRIER

SMOKE BARRIER

INSTALL ROUTE "B" UP TO TR 0005. EXISTING TWO (2) 2" CONDUITS FROM THE CRAWL SPACE TO THE FIRST FLOOR.



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.

NORTH

1 BUILDING 12 - OVERALL FIRST FLOOR ROUTING PLAN

1/8"=1'-0"

0 2' 4' 8' 16'

12/7/2023 1:51:00 PM

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Drawing Title: ICT - BUILDING 12 - OVERALL ROUTING PLAN

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

Project Number: 437-21-210

Building Number: 12

Drawing Number: TT-B12-101

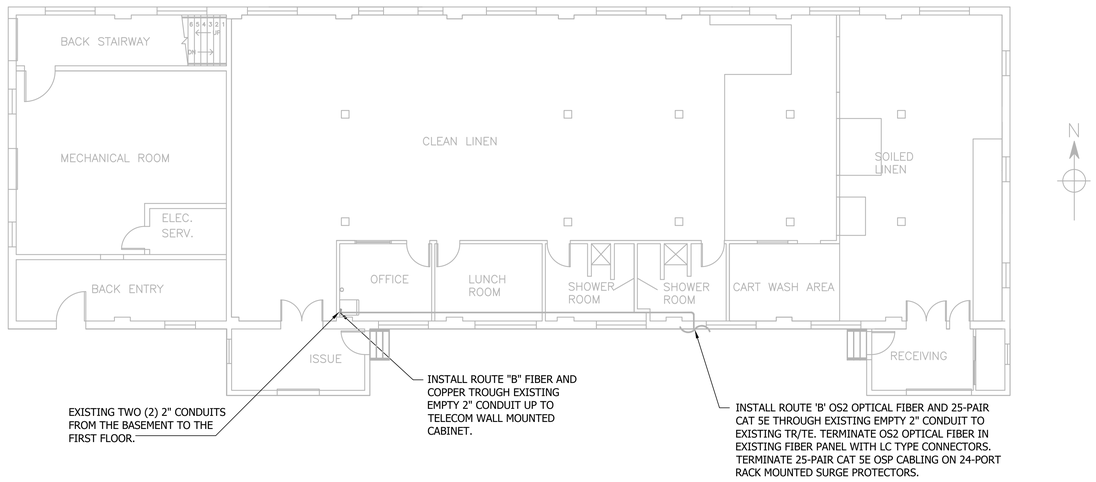
ISSUE FOR BID - 01/16/2024

VA FORM 08 - 6231

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



1 BUILDING 13 - OVERALL FIRST FLOOR ROUTING PLAN

1/8"=1'-0"

0 2' 4' 8' 16'

12/7/2023 2:38:52 PM

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Drawing Title: ICT - BUILDING 13 - OVERALL ROUTING PLAN

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	Checked	Drawn
01/16/2024	CC	JCG

Project Number: 437-21-210

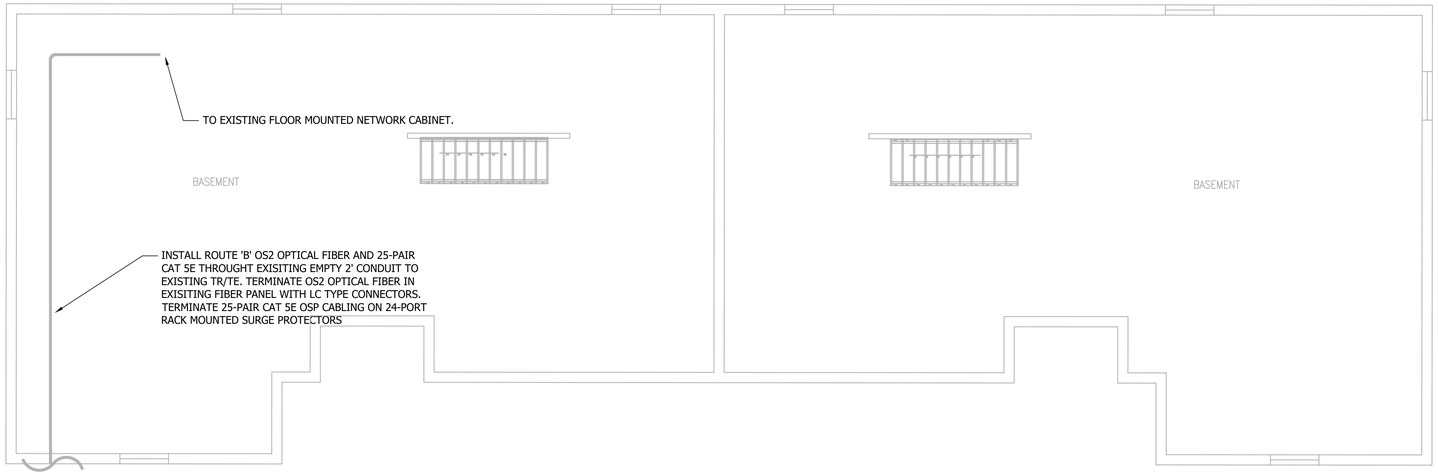
Building Number: 13

Drawing Number: TT-B13-101

VA FORM 08 - 6231

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

FIRST FLOOR FLOOR PLAN



BASEMENT FLOOR PLAN

NORTH

1 BUILDING 30 - OVERALL BASEMENT AND FIRST FLOOR ROUTING PLAN
1/4"=1'-0"

0 1' 2' 4' 8'

ISSUE FOR BID - 01/16/2024

ISSUE FOR BID	01-16-24
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Drawing Title: ICT - BUILDING 30 - OVERALL ROUTING PLAN

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

Project Number: 437-21-210

Building Number: 30

Drawing Number: TT-B30-101

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VA FORM 08 - 6231

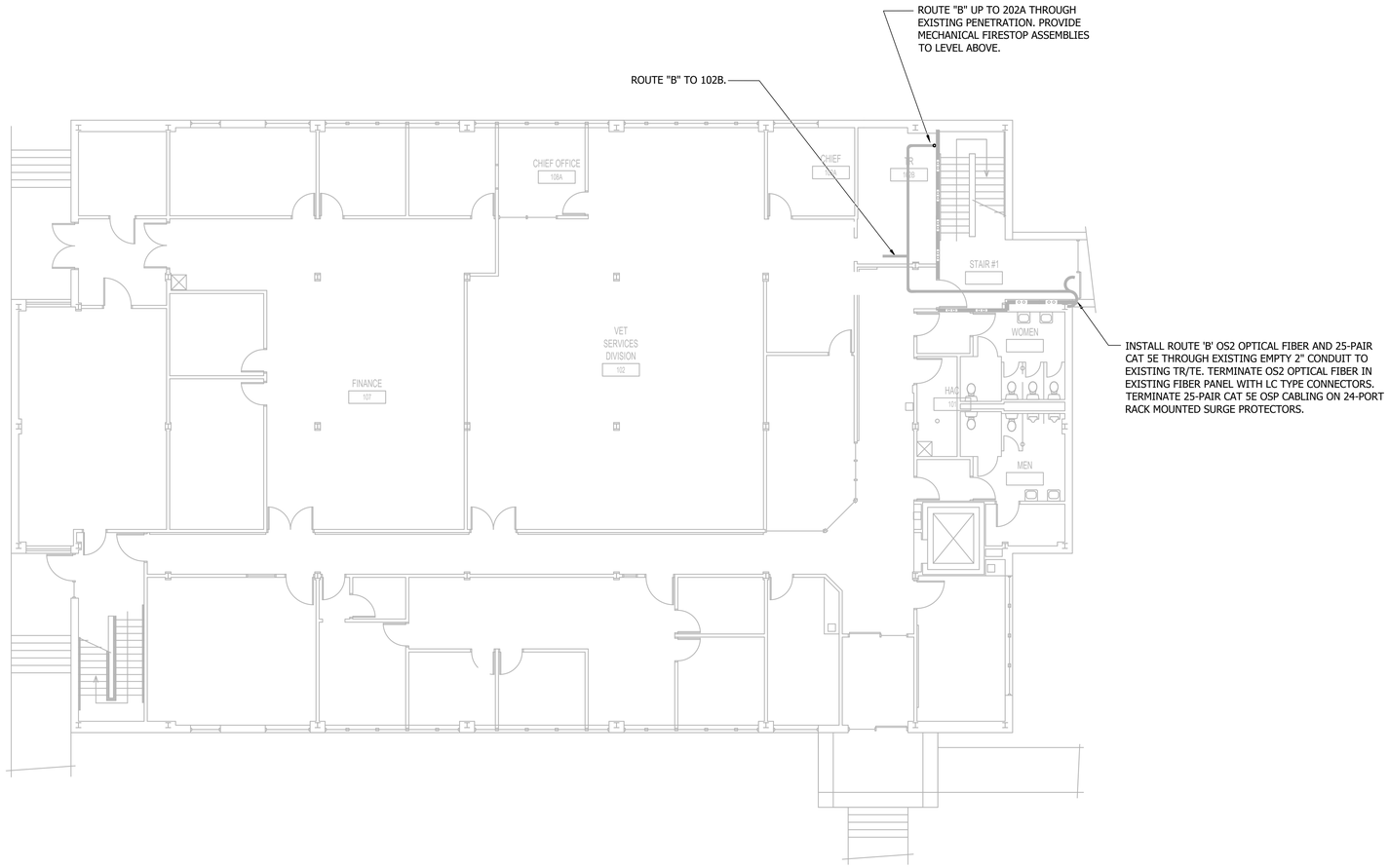
RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER

2 HR FIRE BARRIER

SMOKE BARRIER



NORTH

1 BUILDING 40 - FIRST FLOOR ROUTING PLAN

1/8"=1'-0"

0 2' 4' 8' 16'

ISSUE FOR BID	01-16-24
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Drawing Title: ICT - BUILDING 40 - OVERALL ROUTING PLAN

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

Project Number: 437-21-210

Building Number: 40

Drawing Number: TT-B40-101

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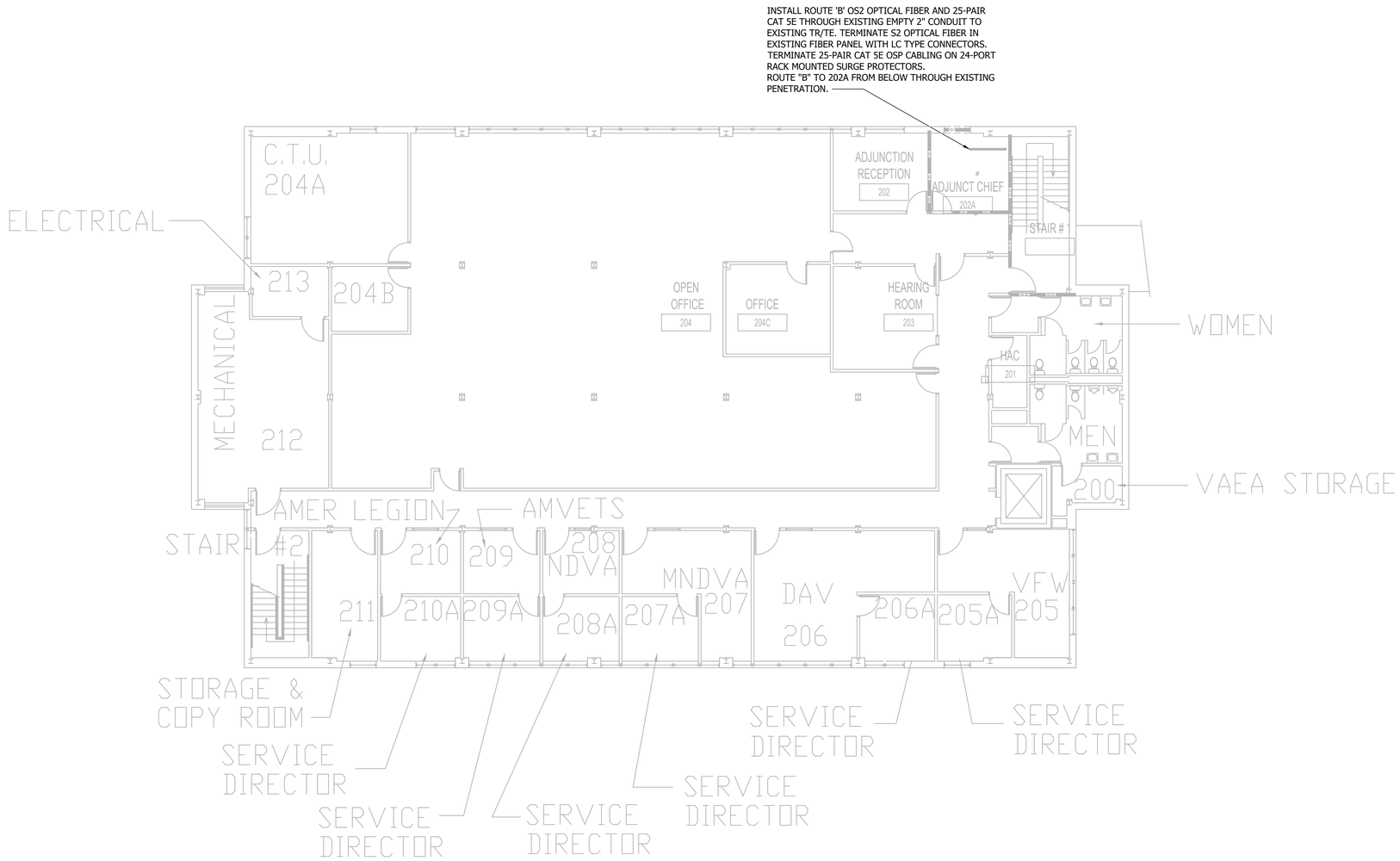
VA FORM 08 - 6231

RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- SMOKE BARRIER



NORTH

1 BUILDING 40 - SECOND FLOOR ROUTING PLAN

1/8"=1'-0"

ISSUE FOR BID - 01/16/2024

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

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Drawing Title	ICT - BUILDING 40 - OVERALL ROUTING PLAN
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
Project Number	437-21-210
Building Number	40
Drawing Number	TT-B40-102

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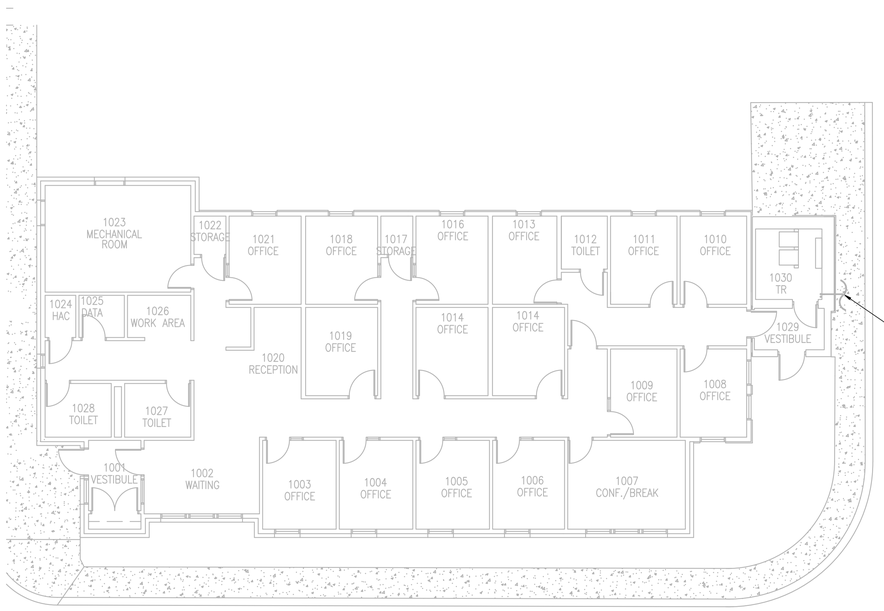
RATED PARTITION LEGEND
CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.
1 HR FIRE BARRIER
2 HR FIRE BARRIER
SMOKE BARRIER



INSTALL ROUTE 'B" OS2 OPTICAL FIBER AND 25-PAIR CAT 5E THROUGHT 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.

NORTH

1 BUILDING 51 - OVERALL FIRST FLOOR ROUTING PLAN
1/8"=1'-0"

0 2' 4' 8' 16'

12/7/2023 2:44:52 PM

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BICSI Chris Carter BICSI ID # 136605 Expires 01/16/2024 RCDD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ICT - BUILDING 51 - OVERALL ROUTING PLAN

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

Project Number: 437-21-210

Building Number: 51

Drawing Number: TT-B51-101

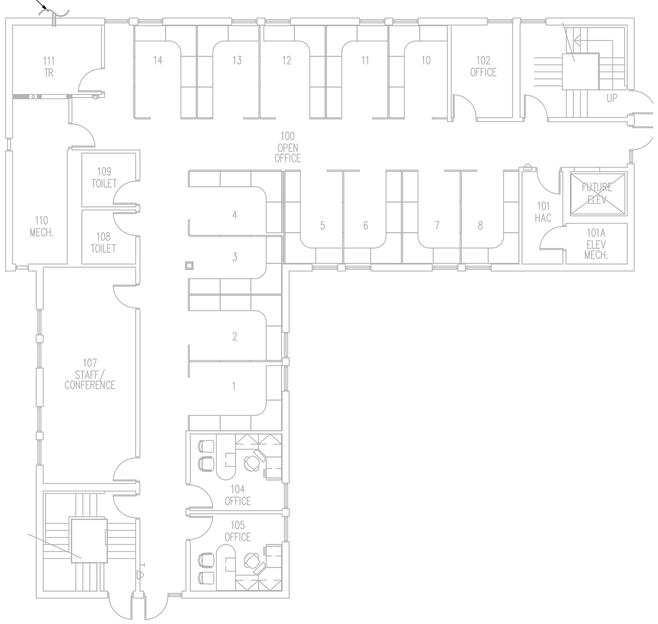
VA FORM 08 - 6231

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.



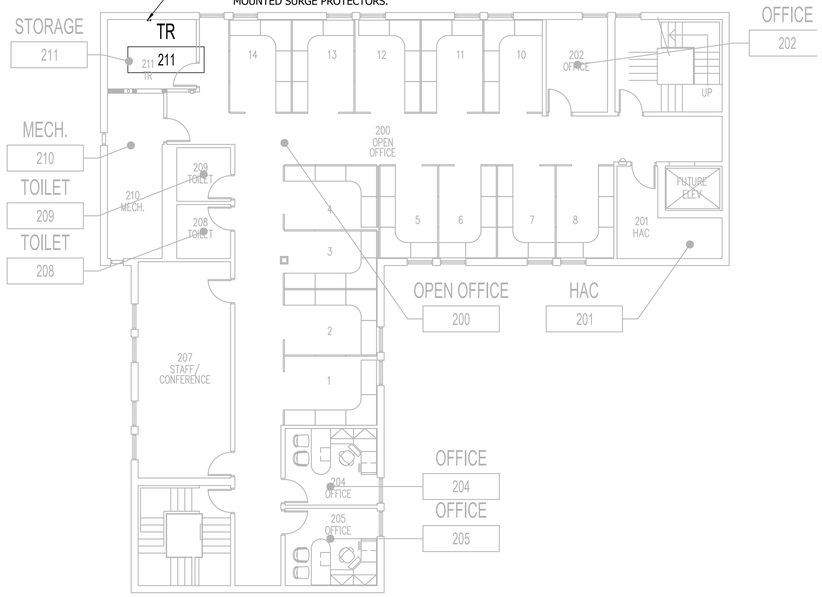
NORTH

1 BUILDING 52 - OVERALL FIRST FLOOR ROUTING PLAN

1/8"=1'-0"

0 2' 4' 8' 16'

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.



NORTH

2 BUILDING 52 - OVERALL SECOND FLOOR ROUTING PLAN

1/8"=1'-0"

0 2' 4' 8' 16'

1/15/2024 11:53:05 PM

K:\CCG_PROJECTS\0022\22-113_437-21-210_Fargo, ND_EHRM Tier 2 (VISN 23 TO)\400- DwtDocs\420- Drawings\WORKING\CAD\TT-B52-101.dwg

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BICSI ID #15885
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VA U.S. Department of Veterans Affairs

ISSUE FOR BID - 01/16/2024

Drawing Title	Phase	Project Title	Project Number
ICT - BUILDING 52 - OVERALL ROUTING PLAN	ISSUE FOR BID	EHRM INFRASTRUCTURE UPGRADES - TIER 2	437-21-210
			Building Number: 52
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number
		Issue Date: 01/16/2024 · Checked: CC · Drawn: JCG	TT-B52-101

VA FORM 08 - 6231

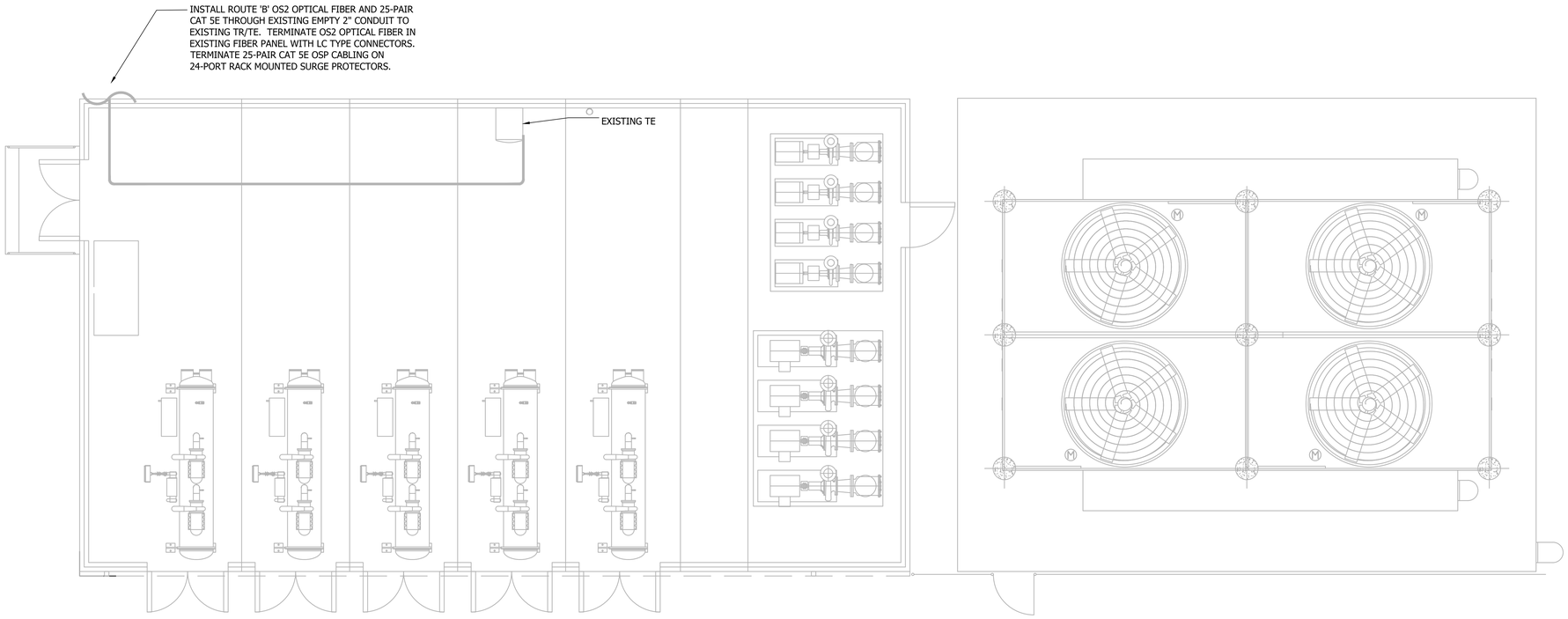
RATED PARTITION LEGEND

CONTRACTOR IS REQUIRED TO MAINTAIN ALL RATED PARTITIONS.

1 HR FIRE BARRIER

2 HR FIRE BARRIER

SMOKE BARRIER



1 BUILDING 56 - FIRST FLOOR ROUTING PLAN

1/4"=1'-0"

0 1' 2' 4' 8'

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

CONSULTANT

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: ICT - BUILDING 56 - OVERALL ROUTING PLAN

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

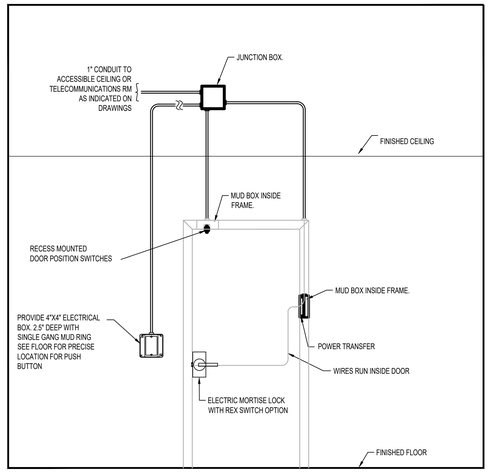
Building Number: 56

Drawing Number: TT-B56-101

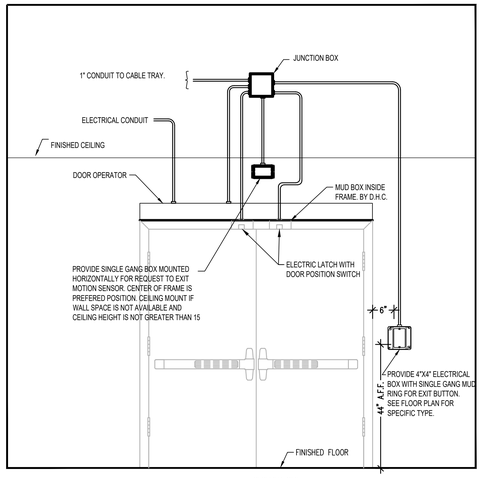
K:\CCG_PROJECTS\2022\22-113_437-21-210_Fargo: ND_EHRM Tier 2 (VISN 23 TO)\400- DesDocs\402- Drawings\WORKING\CAD\TT-B56-101.dwg

12/7/2023 3:03:38 PM

VA FORM 08 - 6231

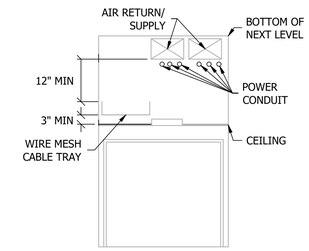


NOTES:
1. CABLE TYPE AND SIZE MUST COMPLY WITH ALL ESTABLISHED REQUIREMENTS AND APPLICABLE CODES.
2. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
3. DOOR HARDWARE SHOWN FOR GRAPHICAL ILLISTRATION ONLY, REFERENCE DIVISION 8 HARDWARE SCHEDULE AS NEEDED FOR ACTUAL HARDWARE SET.

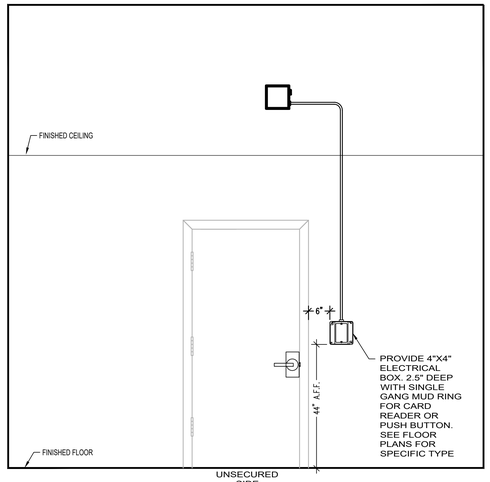


NOTES:
1. CABLE TYPE AND SIZE MUST COMPLY WITH ALL ESTABLISHED REQUIREMENTS AND APPLICABLE CODES.
2. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
3. DOOR HARDWARE SHOWN FOR GRAPHICAL ILLISTRATION ONLY, REFERENCE DIVISION 8 HARDWARE SCHEDULE AS NEEDED FOR ACTUAL HARDWARE SET.

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



5 TYPICAL SINGLE SECURITY DOOR
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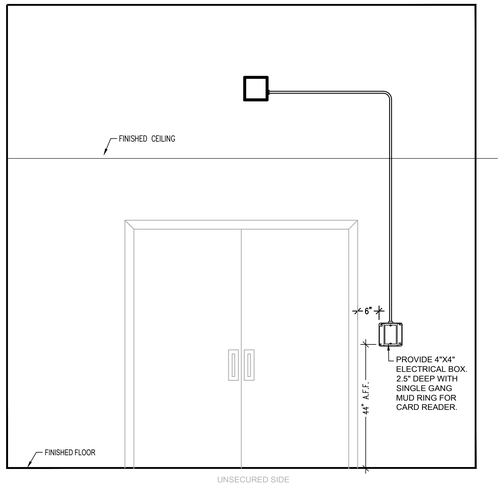
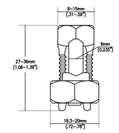
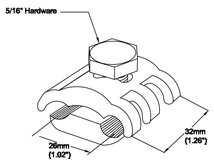


4 TYPICAL DOUBLE SECURITY DOOR
NTS



NOTES:
1. DIMENSION SHOWN ARE NOMINAL, OTHER SIZES MAY EXIST. CONTACT CABLOFIL IF NECESSARY.
2. 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.
3. ACCOMODATES GAUGES 3-14 AWG.

2 SPLIT BOLT GROUNDING CONDUCTOR
NTS



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

1 GROUNDING CONDUCTOR DETAIL
NTS

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

CONSULTANT

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ISSUE FOR BID - 01/16/2024

Drawing Title	Phase	Project Title	Project Number
ICT - DETAILS	ISSUE FOR BID	EHRM INFRASTRUCTURE UPGRADES - TIER 2	437-21-210
			Building Number
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Drawing Number
		Issue Date: 01/16/2024 · Checked: CC · Drawn: JG	TT-500

VA FORM 08 - 6231

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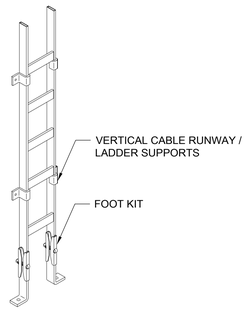
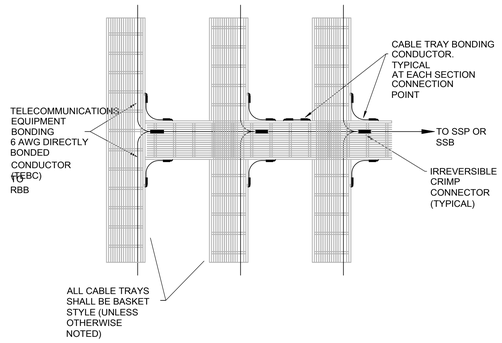
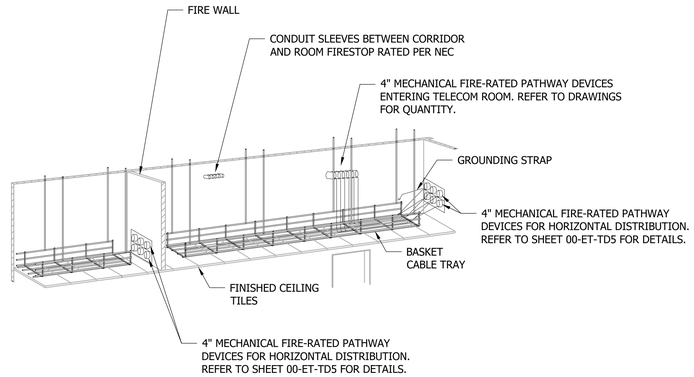


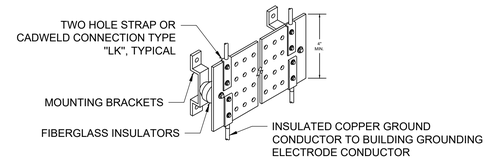
1 VERTICAL CABLE /LADDER SUPPORTS
NTS



2 CABLE TRAY BONDING DETAIL
NTS

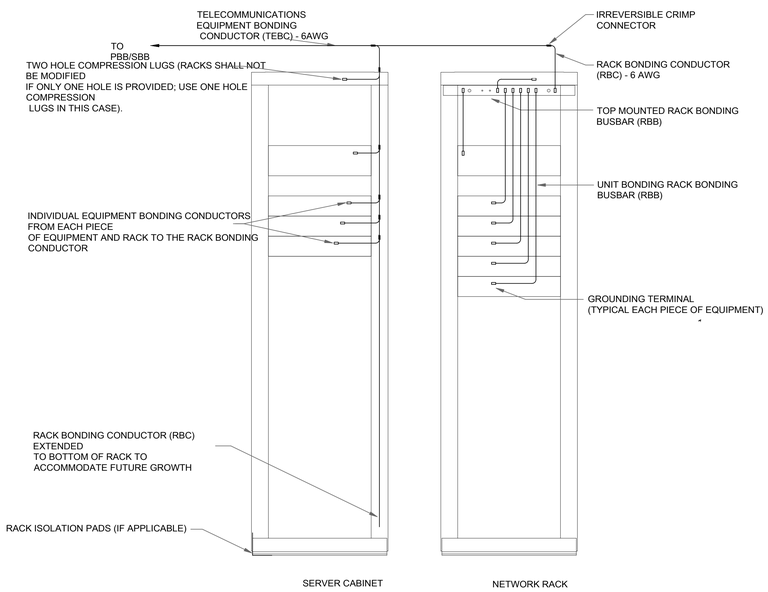


3 CABLE RUNWAY RACK MOUNTING / WIRE MESH PARALLEL DETAIL
NTS

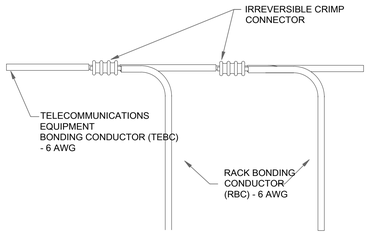


NOTES:
1. PREDRILLED BOLT HOLE SIZE AND SPACING AS REQUIRED FOR INDICATED TERMINATIONS.
2. PROVIDE LENGTH SUFFICIENT FOR ALL INDICATED TERMINATIONS AND 20% SPARE MOUNTING SPACE.
3. GROUND BAR SHALL BE MOUNTED MINIMUM 2" OFF WALL AND 12" AFF.
4. FIBERGLASS INSULATORS SHALL HAVE A MINIMUM DIELECTRIC STRENGTH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

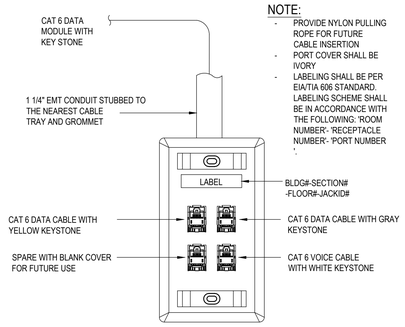
4 GROUND BUS DETAIL
NTS



5 TYPICAL BONDING REQUIREMENTS FOR IT EQUIPMENT ENCLOSURES
NTS



6 TYPICAL BONDING CONNECTION REQUIREMENTS
NTS



NOTE:
- PROVIDE NYLON PULLING ROPE FOR FUTURE CABLE INSERTION
- PORT COVER SHALL BE IVORY
- LABELING SHALL BE PER EIA/TIA 606 STANDARD. LABELING SCHEME SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 'ROOM NUMBER'- 'RECEPTACLE NUMBER'- 'PORT NUMBER '.

NTS

7 DATA OUTLET
NTS

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

CONSULTANT

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BICSI ID # 154605
Expires 01-01-24
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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-501

ISSUE FOR BID - 01/16/2024

VA FORM 08 - 6231

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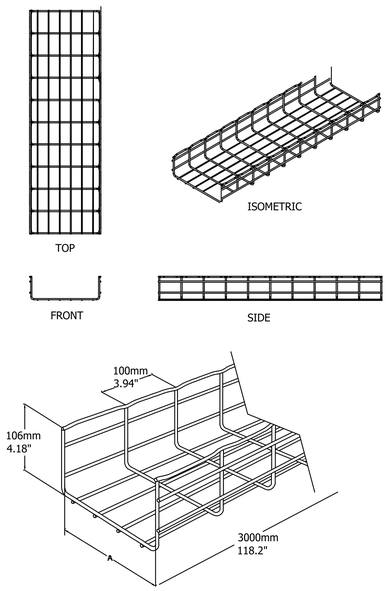
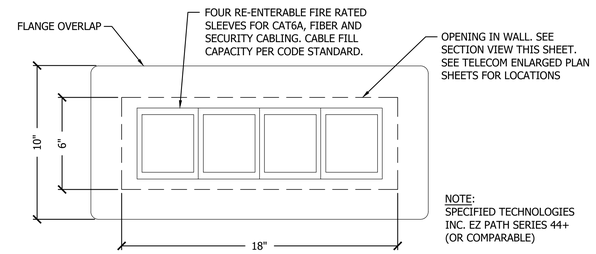


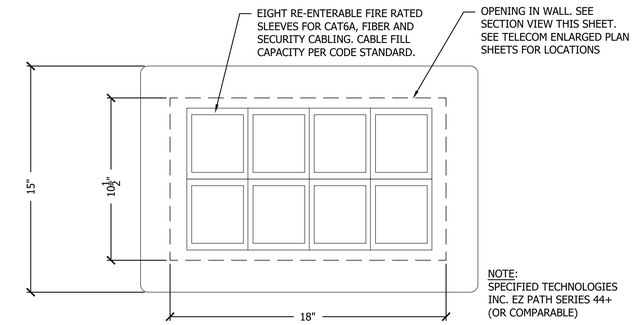
PROPOSED CABLE TRAY:
- CABLOFIL: 6" DEEP X 12" WIDE MINIMUM (SIZE COMMENSURATE WITH DISTRIBUTION REQUIREMENT)
- WHITE POWDERCOAT

CAT. NO	DEPTH (IN)	WIDTH "A" (IN)	CAT 6a 4-pr PLENUM (0.35")
CF150/150	6	6	186
CF150/200	6	8	238
CF150/300	6	12	357
CF150/450	6	18	536
CF150/500	6	20	596
CF150/600	6	24	715
CF150/900	6	36	1078

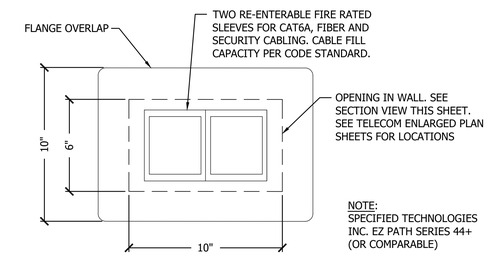
5 CABLE TRAY DETAIL CAPACITY PLANNING
NTS



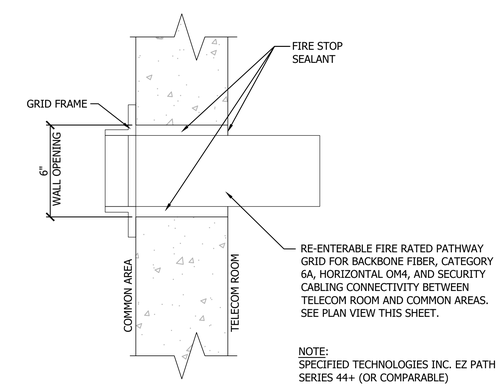
4 TELECOM ROOM (4 SLEEVES) WALL OPENING PLAN
3"=1'-0"



3 TELECOM ROOM (8 SLEEVES) WALL OPENING PLAN
3"=1'-0"



2 TELECOM ROOM (2 SLEEVES) WALL OPENING PLAN
3"=1'-0"



1 TELECOM ROOM WALL OPENING SECTION
3"=1'-0"

ISSUE FOR BID - 01/16/2024

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

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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: JCG

Project Number: 437-21-210

Building Number:

Drawing Number: TT-502

VA FORM 08 - 6231

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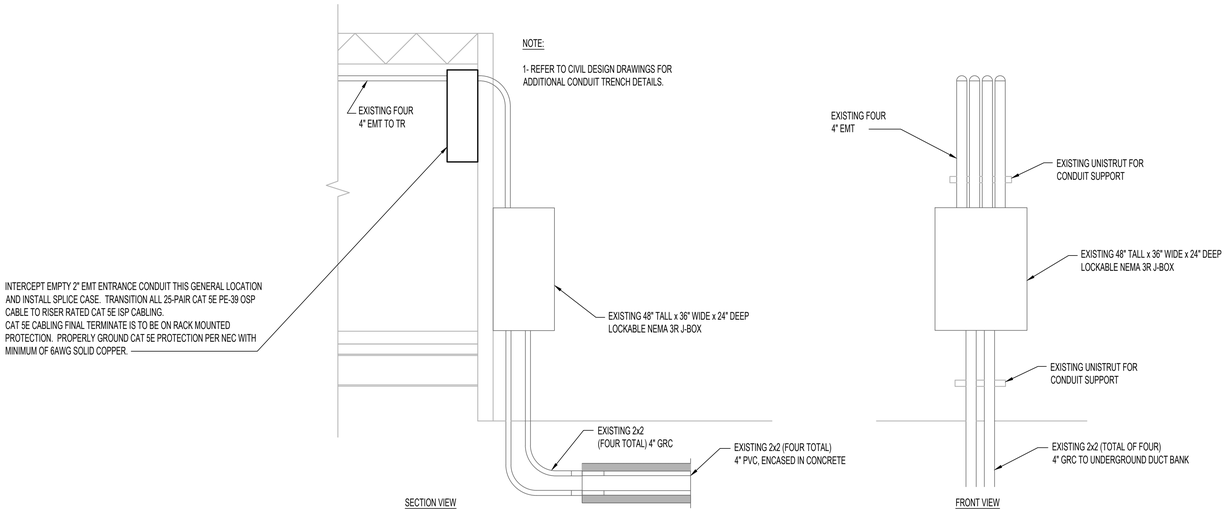
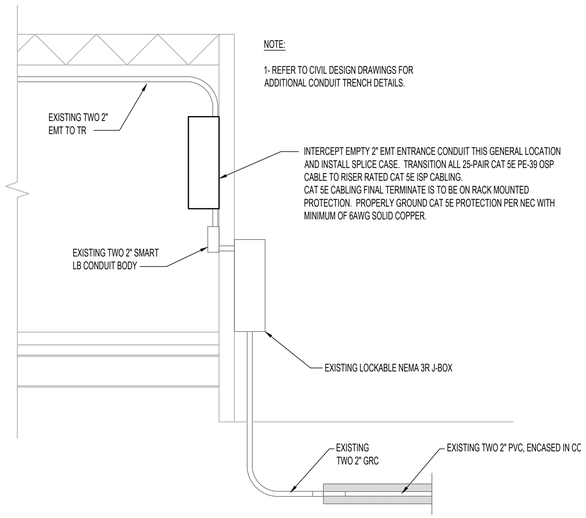


1 EXTERIOR 4" CONDUIT ENTRY DETAIL
NTS



2 EXTERIOR BUILDING CONDUIT ENTRY DETAIL
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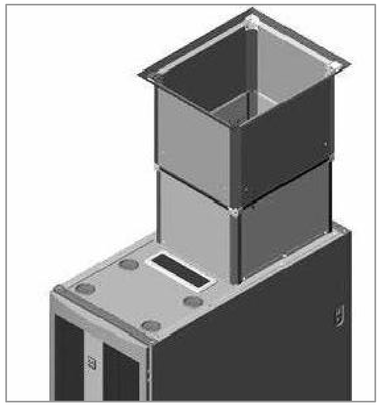

3 TYPICAL CABINET WITH VERTICAL EXHAUST DUCT
NTS

ISSUE FOR BID - 01/16/2024

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

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Drawing Title: ICT - DETAILS	Phase: ISSUE FOR BID	Project Title: EHRM INFRASTRUCTURE UPGRADES - TIER 2	Project Number: 437-21-210
Approved: Project Director	BUILDING FULLY SPRINKLERED	Location: FARGO VA HEALTH CARE SYSTEM	Building Number:
		Issue Date: 01/16/2024 · Checked: CC · Drawn: JCG	Drawing Number: TT-503

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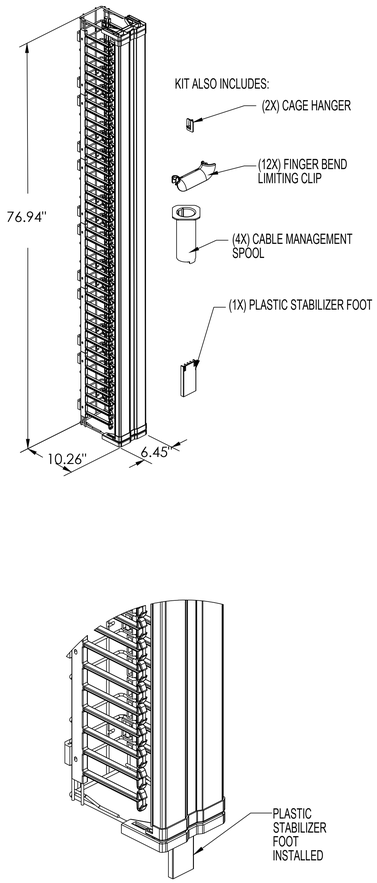
NOTE: TELECOMMUNICATION CHANNEL RACKS ARE REQUIRED IN ALL TELECOMMUNICATION ROOMS. TELECOMMUNICATION CHANNEL RACKS OR TELECOMMUNICATION CABINETS MAY BE USED IN THE HORIZONTAL AND MAIN DISTRIBUTION AREAS.



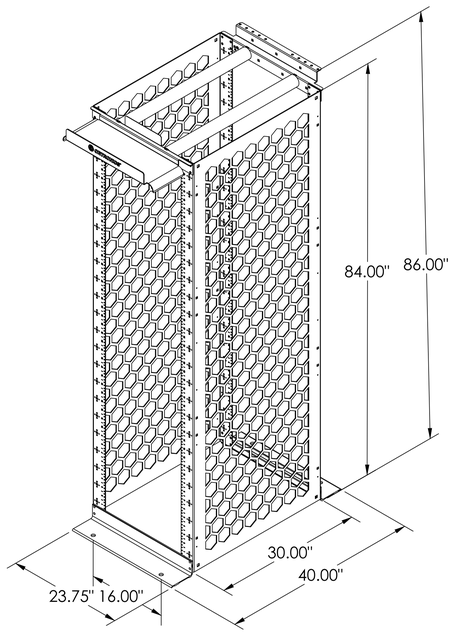
P/N: OR-MM20VMD706 (OR EQUIVALENT)

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



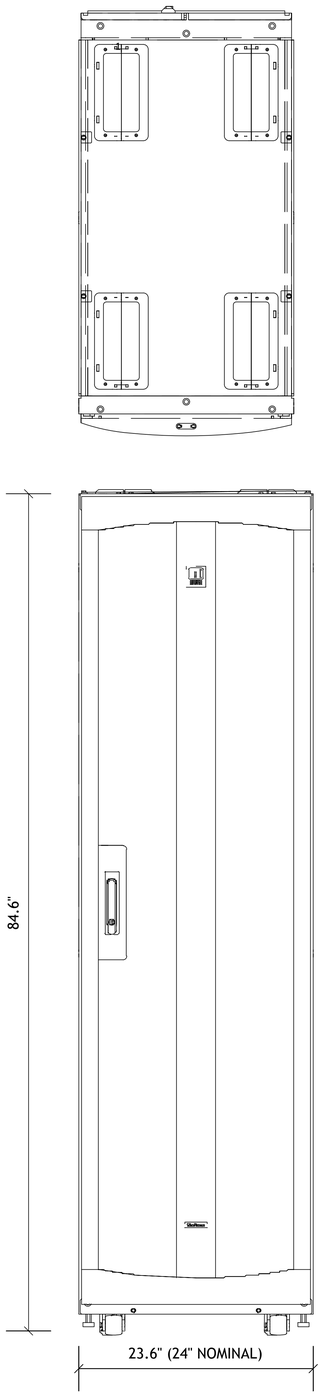
P/N: OR-MM2073038-W (OR EQUIVALENT)

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

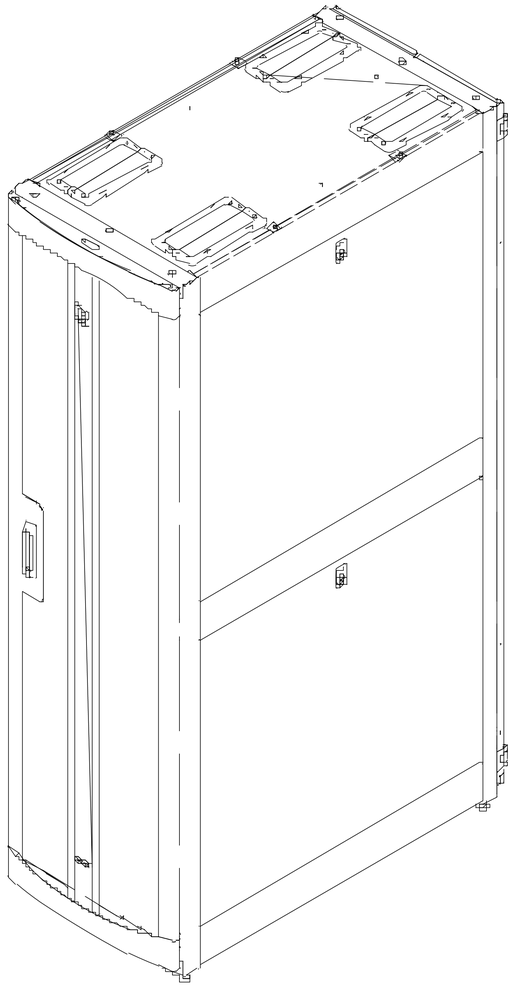
DIMENSIONS:
USABLE HEIGHT: 45RU
DEPTH (US): 30
HEIGHT (US): 7'
WIDTH (US): 23.75"
STATIC LOAD CAPACITY: 2000 LBS

SQUARE HOLE

2 TYPICAL RACK DIMENSIONS + SPECIFICATIONS
NTS



3 TYPICAL SERVER CABINET (FRONT VIEW)
NTS



4 TYPICALSERVER CABINET SPECIFICATION
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ISSUE FOR BID - 01/16/2024

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

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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	Checked	Drawn
01/16/2024	CC	JCG

Project Number: 437-21-210

Building Number:

Drawing Number: TT-504

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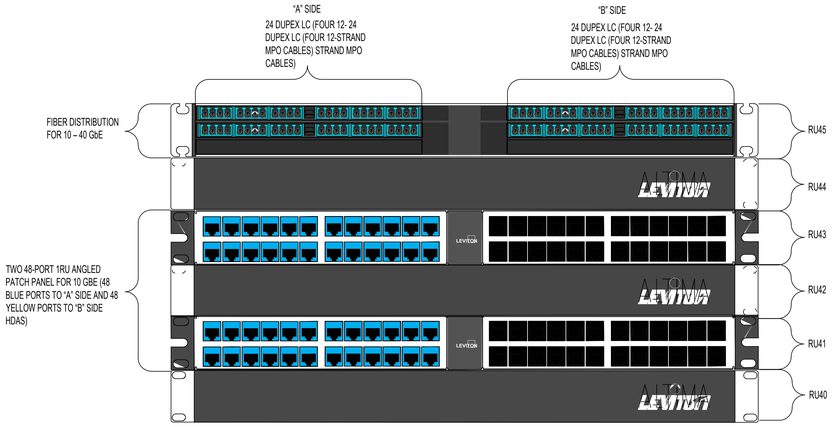
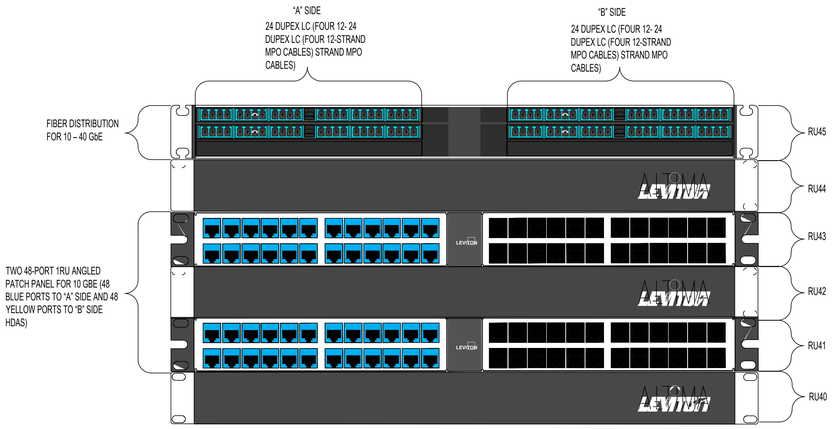


2 HIGH DENSITY EQUIPMENT DISTRIBUTOR ELEVATION FOR CABINETS
NTS



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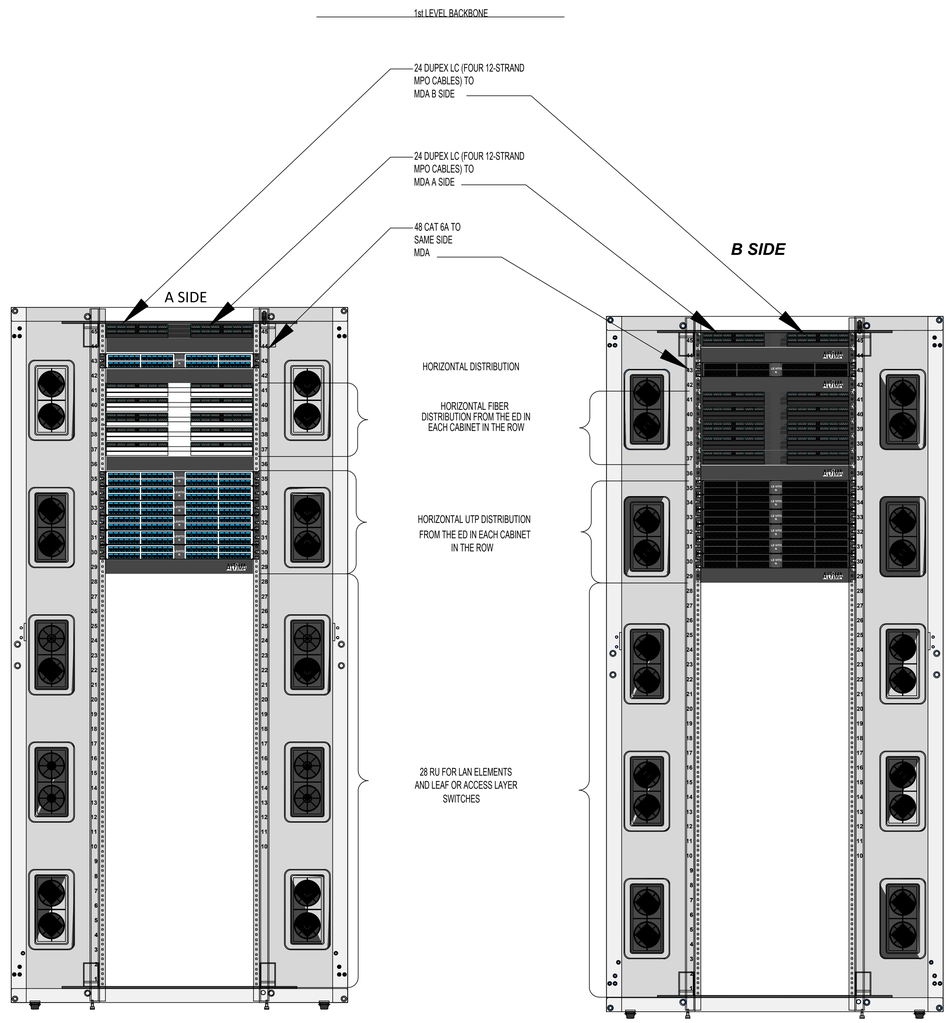

1 TYPICAL END OF ROW HORIZONTAL DISTRIBUTION AREA
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Office of Construction and Facilities Management

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	Checked	Drawn
01/16/2024	CC	JCG

Project Number: 437-21-210

Building Number:

Drawing Number: TT-505

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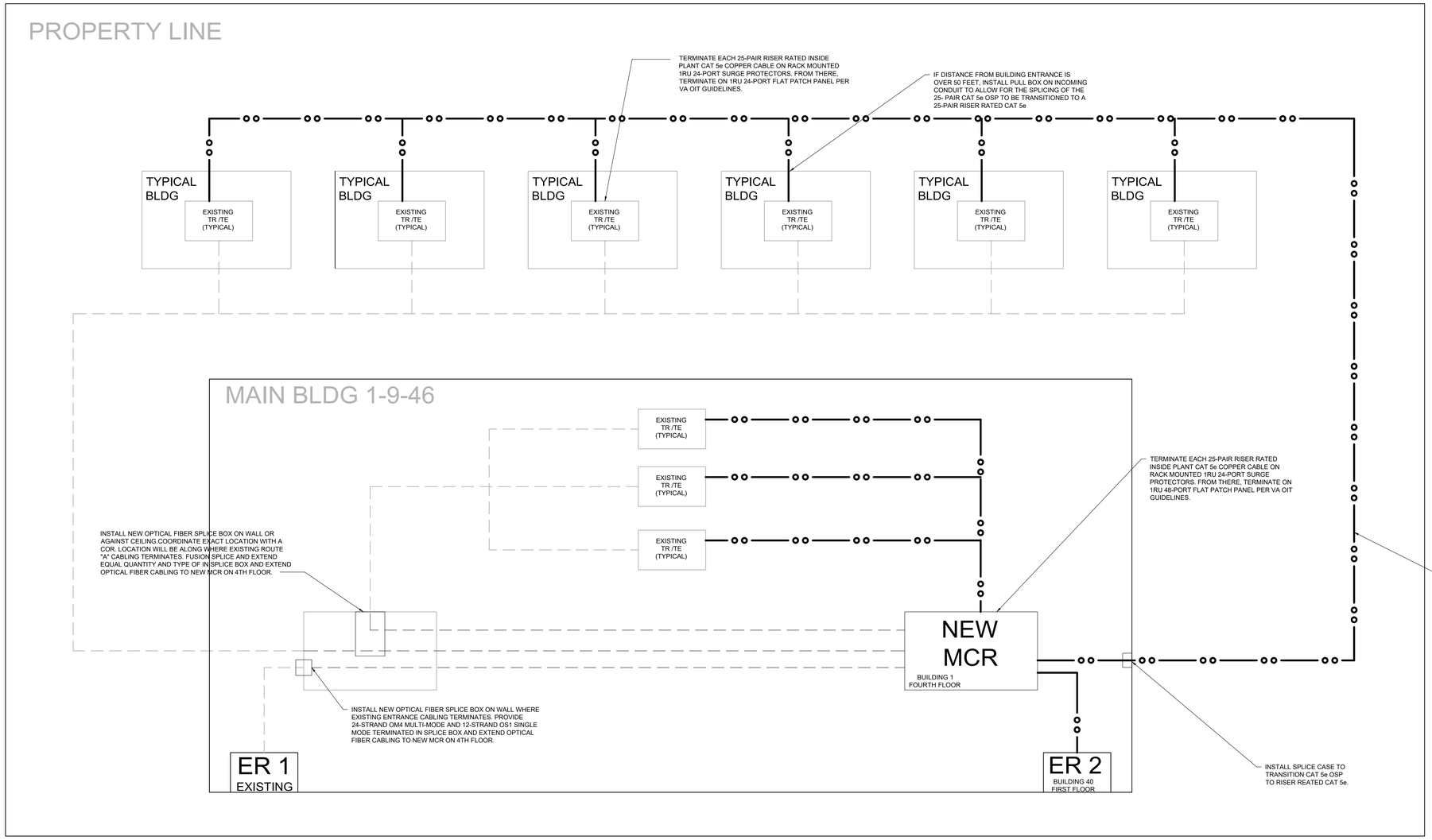

LEGEND

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

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ISSUE FOR BID	01-16-24
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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

Project Number: 437-21-210

Building Number:

Drawing Number: TT-600

ISSUE FOR BID - 01/16/2024

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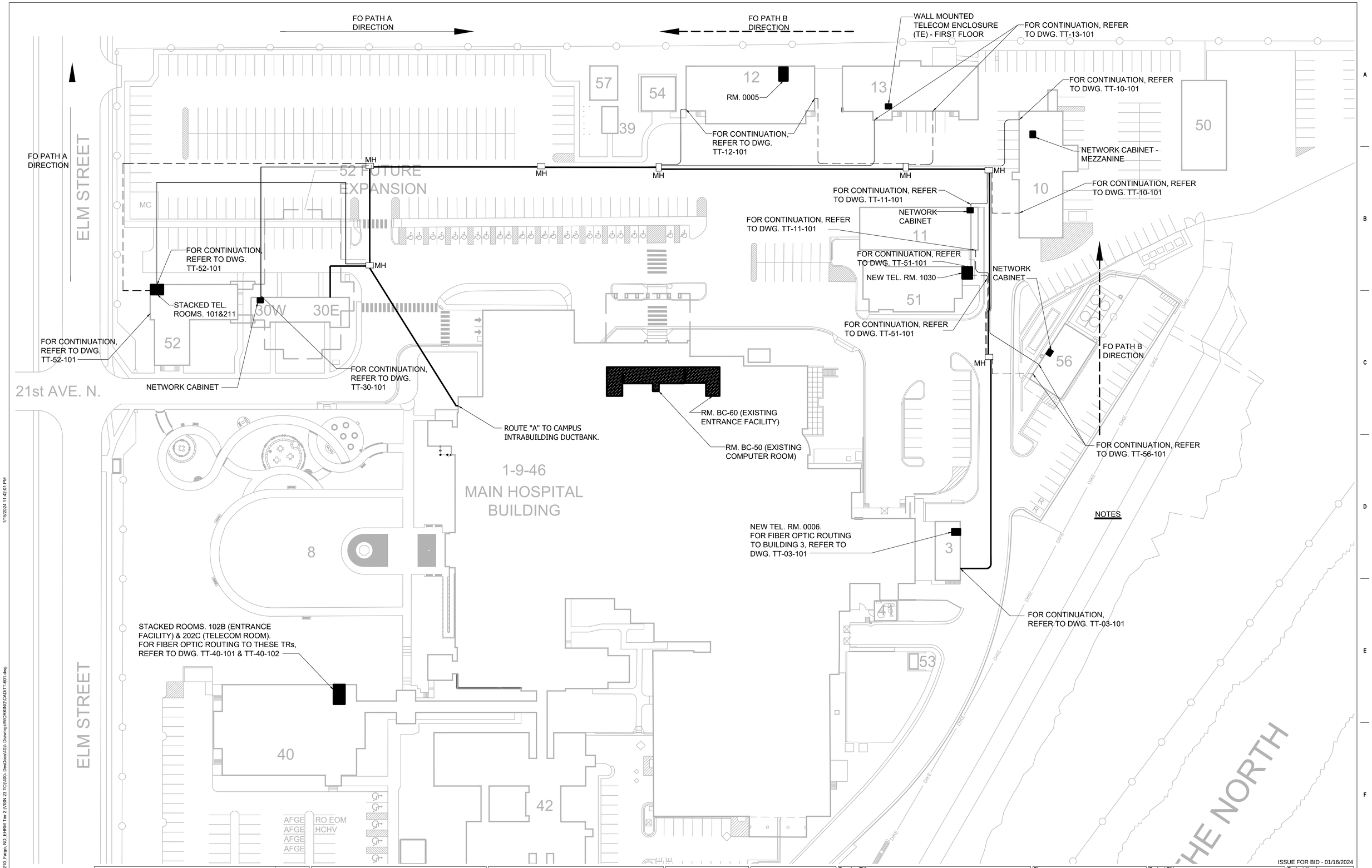

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Drawing Title	ICT- EXISTING SITE PLAN FARGO TIER 1
Approved: Project Director	
Phase	ISSUE FOR BID
	BUILDING FULLY SPRINKLERED
Project Title	EHRM INFRASTRUCTURE UPGRADES - TIER 2
Location	FARGO VA HEALTH CARE SYSTEM
Issue Date	01/16/2024
Checked	JT
Drawn	JG
Project Number	437-21-210
Building Number	
Drawing Number	TT-601

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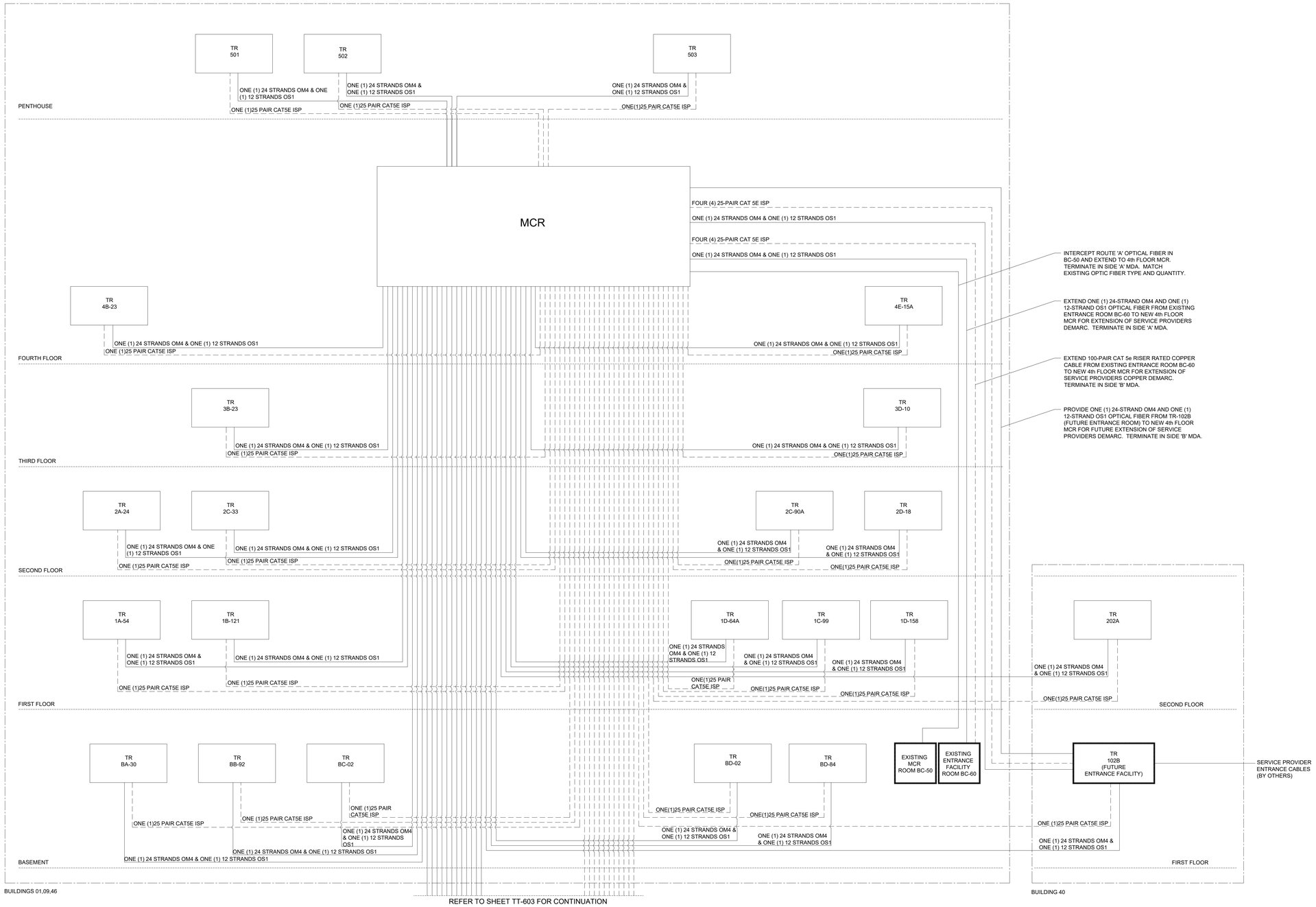

REFER TO SHEET TT-603 FOR CONTINUATION

1 BACKBONE CABLING RISER DIAGRAM

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Drawing Title: RISER - BACKBONE CABLING RISER DIAGRAM (1 OF 2)

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

Project Number: 437-21-210

Building Number:

Drawing Number: TT-602

ISSUE FOR BID - 01/16/2024

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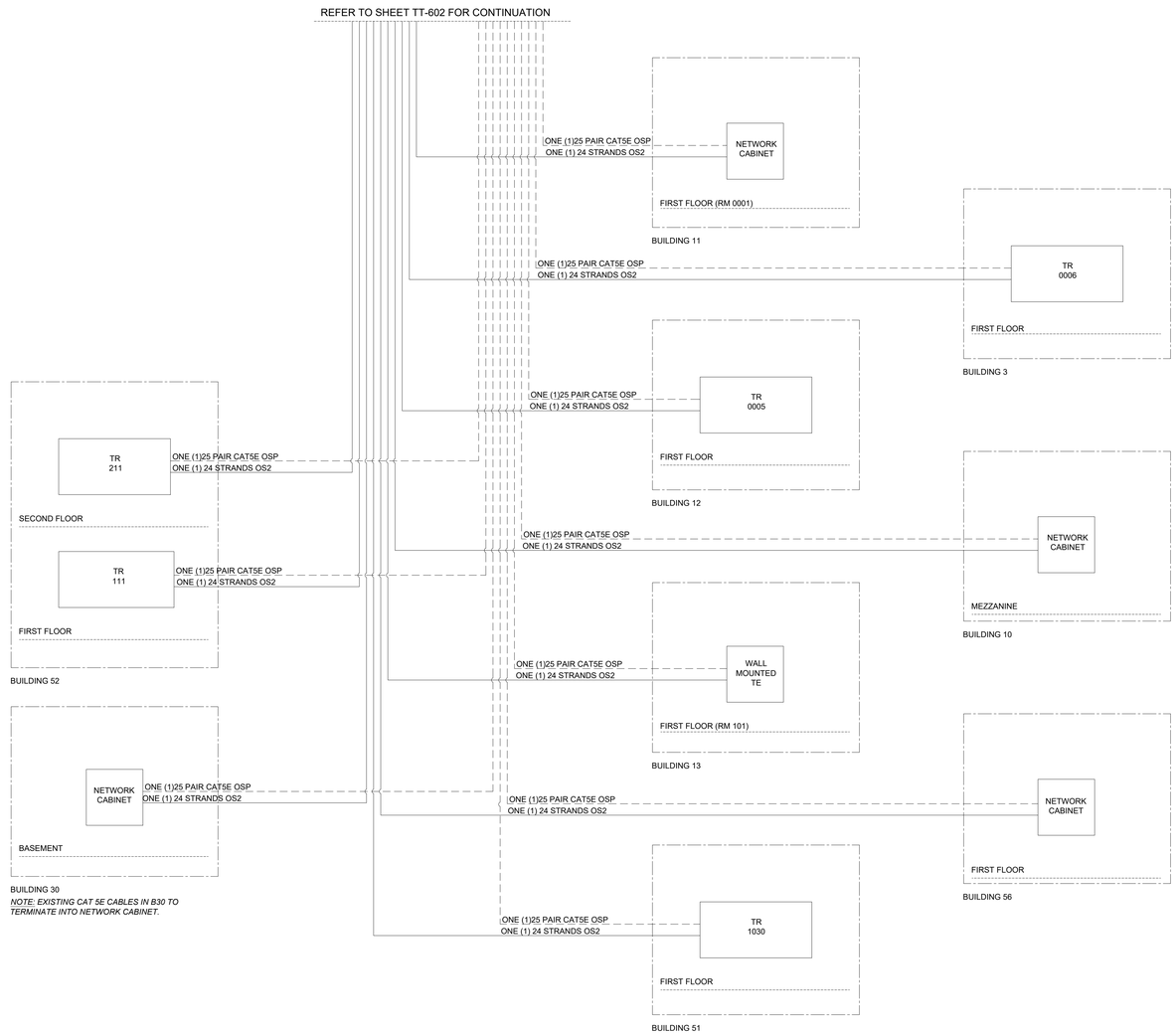

1 BACKBONE CABLING RISER DIAGRAM

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Drawing Title: RISER - BACKBONE CABLING RISER DIAGRAM (2 OF 2)

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

Project Number: 437-21-210

Building Number:

Drawing Number: TT-603

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