

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY



WMATA 490 MHZ RADIO EQUIPMENT RELOCATION AT L'ENFANT PLAZA

VOLUME 1: CIVIL AND SITE ZONING DRAWINGS
SITE DESIGN
COVER SHEET
CONTRACT WMATA-LTR-22-001
DEPARTMENT OF COMMUNICATIONS AND SIGNALING

DESIGN LEAD	CIVIL	STRUCTURAL	EQUIPMENT	PLUMBING	ELECTRICAL	LEED
MOTOROLA SOLUTIONS 809 PINNACLE DRIVE SUITE G LINTHICUM HEIGHTS, MD 21090 (410) 712-6200	MOTOROLA SOLUTIONS 809 PINNACLE DRIVE SUITE G LINTHICUM HEIGHTS, MD 21090 (410) 712-6200				KCI TECHNOLOGIES, INC 11830 WEST MARKET PLACE SUITE F FULTON, MD 20759 (410) 792-8086	
HAZARDOUS MATERIALS	LANDSCAPE	ARCHITECTURAL/ENGINEER	FIRE PROTECTION	MECHANICAL	TELECOMMUNICATION	GEOTECHNICAL
		KCI TECHNOLOGIES, INC 11830 WEST MARKET PLACE SUITE F FULTON, MD 20759 (410) 792-8086				



WMATA 490MHZ RADIO EQUIPMENT RELOCATION



KCI TECHNOLOGIES, INC
11830 West Market Place, Suite
Fulton, MD 20759
Phone: 410.792.8086



DCRA

A & E CONSULTING TEAM

ARCHITECTURE AND ENGINEERING:

KCI TECHNOLOGIES INC.
11830 WEST MARKET PLACE, SUITE F
FULTON, MD 20759
NICHOLAS BARRICK (410) 792-8086

CONSTRUCTION SERVICES

MOTOROLA SOLUTIONS, INC
809 PINNACLE DRIVE
SUITE G
LINTHICUM HEIGHTS, MD 21090

CONTACT: MIKE HARRY
PROGRAM DIRECTOR
TELEPHONE: (410) 712-6200
EMAIL: M.HARRY@MOTOROLASOLUTIONS.COM

PRIME CONTRACTOR:

MOTOROLA SOLUTIONS, INC
809 PINNACLE DRIVE
SUITE G
LINTHICUM HEIGHTS, MD 21090

CONTACT: MIKE HARRY
PROGRAM DIRECTOR
TELEPHONE: (410) 712-6200
EMAIL: M.HARRY@MOTOROLASOLUTIONS.COM

OWNER:

WMATA
300 7TH STREET SW.
WASHINGTON, DC 20024

CONTACT: ALLEN WONDER
PROJECT MANAGER
TELEPHONE: (202) 962-1743
MOBILE: (443) 963-4313
EMAIL: AJWONDER@WMATA.COM
EMAIL: EMAIM:

PROJECT SUMMARY

PROPERTY OWNER:

WMATA
CONTACT: ALLEN WONDER
300 7TH STREET SW
WASHINGTON, DC 20024

PROJECT INFO:

SITE NAME: L'ENFANT PLAZA
LOCATION NAME: L'ENFANT PLAZA

APPLICANT INFORMATION:

MOTOROLA SOLUTIONS, INC
809 PINNACLE DRIVE
SUITE G
LINTHICUM HEIGHTS, MD 21090

CONTACT: MIKE HARRY
PROGRAM DIRECTOR
TELEPHONE: (410) 712-6200

PROJECT DATA:

ZONING: D-5
TAX MAP: #0026
PARCEL ID: 04640026
LAND AREA: 42,140 S.F.
JURISDICTION: WASHINGTON DC WARD 6
SITE TYPE: COMMERCIAL – OFFICE (LARGE)

GEOGRAPHIC COORDINATES:

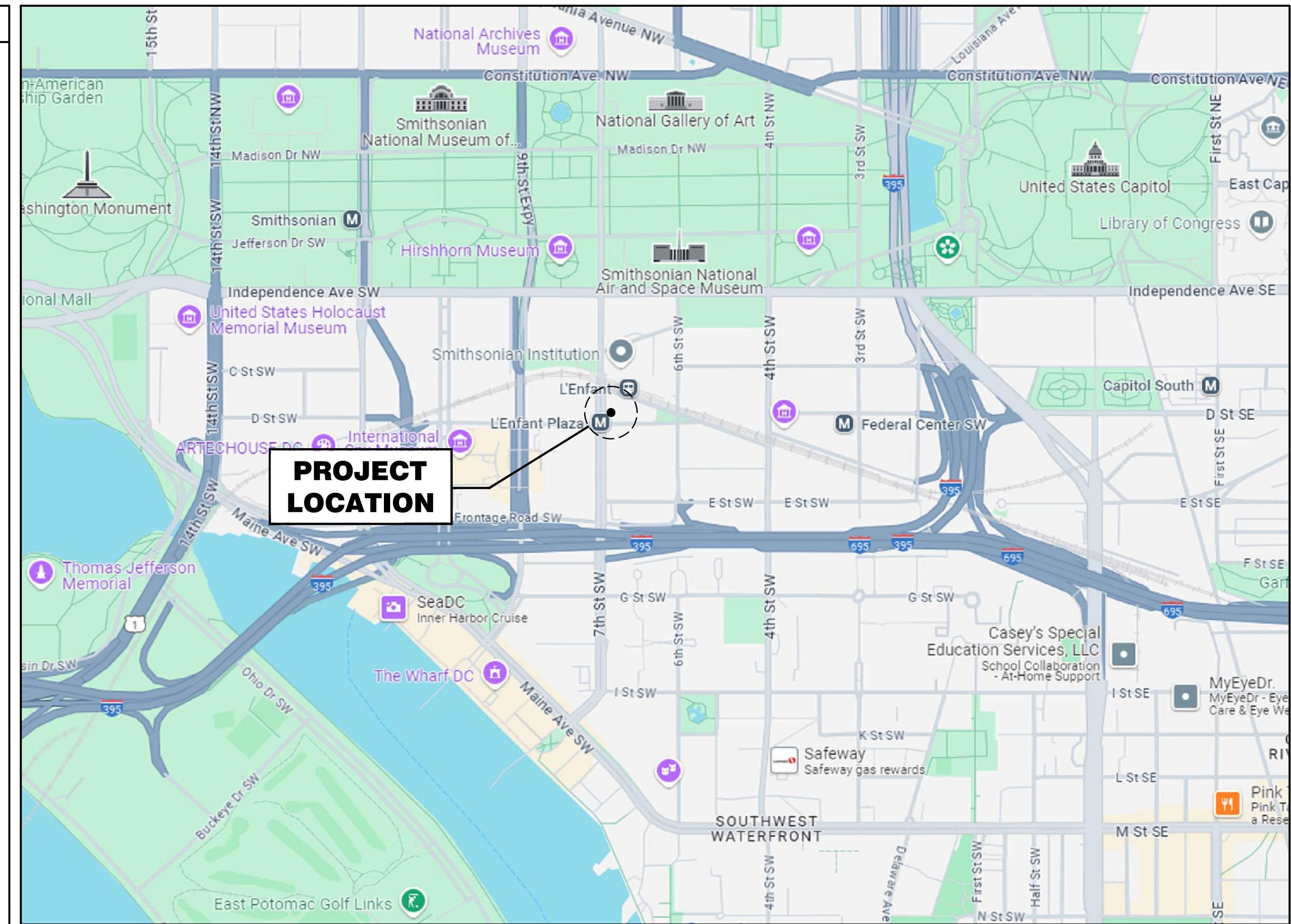
LATITUDE: 38° 53' 6.45"
LONGITUDE: -77° 1' 17.85"

ADA COMPLIANCE:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
SITE WILL NOT BE SERVED BY CITY SEWER OR WATER.

INDEX OF DRAWINGS

<u>SHEET NUMBER</u>	<u>SHEET TITLE</u>
G0000	COVER SHEET
<u>GENERAL</u>	
G0001	GENERAL INFORMATION
G0002	GENERAL NOTES
G0003	GENERAL NOTES
<u>CIVIL</u>	
C0001	OVERALL PARCEL PLAN
C0101	A-1 FLOOR PLAN
C0102	1ST FLOOR PLAN
C0103	2ND-6TH FLOOR PLANS
C0104	7TH-8TH FLOOR PLANS
C0105	9TH FLOOR PLAN
C0106	10TH-11TH FLOOR PLANS
C0107	PENTHOUSE FLOOR PLAN
C0108	EQUIPMENT ROOM PLANS
C0201	ELEVATION PLAN
C0202	ELEVATION PLAN
C0203	ROOF PLAN/ANTENNA LAYOUT
<u>ANTENNA</u>	
A0101	RF COMPONENT PLAN
A0501	ANTENNA DETAILS
<u>HISTORIC</u>	
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H0002	SETBACK PLAN
H0003	ANTENNA PHOTOS



DESIGNED BY:	JW	10/15/24
DRAWN BY:	JW	10/15/24
CHECKED BY:	GT	10/15/24
APPROVED BY:	GT	10/15/24

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	NO.	DATE	DESCRIPTION
		0	9/17/24	ZONING DRAWINGS SUBMISSION
		1	11/20/24	ZONING DRAWINGS SUBMISSION
		2	11/22/24	ZONING DRAWINGS SUBMISSION

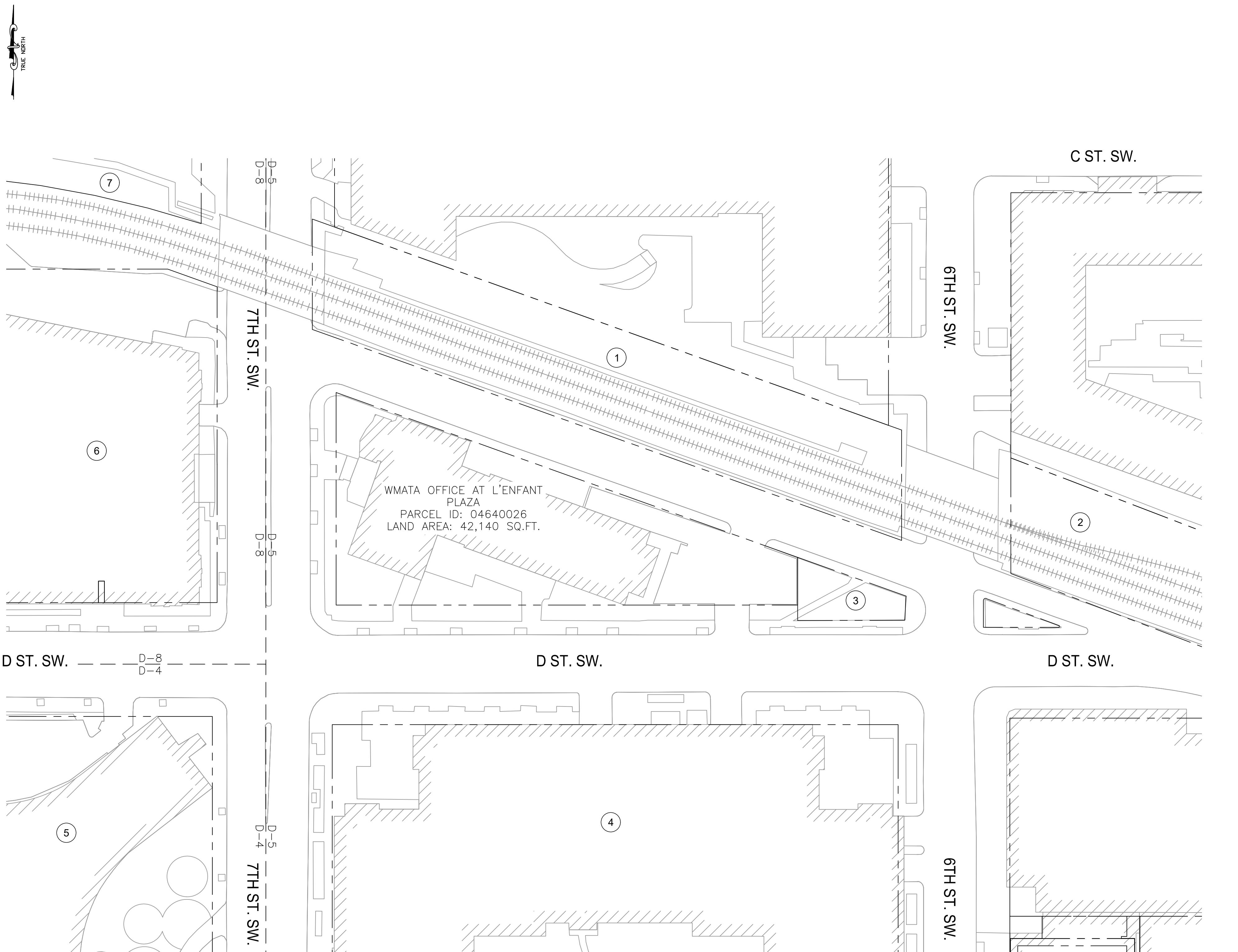


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

**WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024**

SHEET #	G0001
SHEET TITLE	GENERAL INFORMATION
2	OF 35





PARCEL - ZONING PLAN

SCALE: 1' = 50'

SCALE: 1' = 50'

SITE NOTES

DCRA

1. APPLICANT/OWNER: WMATA
CONTACT: ALLEN WONDER
300 7TH STREET SW
WASHINGTON, DC 20024
 2. SITE DATA:
PARCEL #: 0464 0026
WATER DESIGNATION: CITY
SEWER DESIGNATION: CITY
ELECTION DISTRICT: 01
SITE AREA: 0.97 AC.
SITE ADDRESS: 300 7TH STREET SW
WASHINGTON, DC 20024
 3. EXISTING USE: COMMERCIAL OFFICE BUILDING/TELECOMMUNICATION FACILITY
PROPOSED USE: COMMERCIAL OFFICE BUILDING/TELECOMMUNICATION FACILITY
 4. ZONING OF SITE IS D-5 (DOWNTOWN)

- 1 CONSOLIDATED RAIL CORPORATION
500 WATER ST.
JACKSONVILLE, FL 32202
TAX LOT: 0463S 0805
ZONING: D-5
0.91 AC

2 CONSOLIDATED RAIL CORPORATION
500 WATER ST.
JACKSONVILLE, FL 32202
TAX LOT: 0493 0804
ZONING: D-5
1.15 AC

3 UNITED STATES OF AMERICA
NATIONAL PARKS
TAX LOT: RES 01150000
ZONING: D-4
0.09 AC

4 CC OWNER LLC.
600 13TH ST. NW STE. 700
WASHINGTON, DC 20005
TAX LOT: 0465 0096
ZONING: D-5
5.41 AC

5 UNITED STATES OF AMERICA
TAX LOT: 0435 0060
ZONING: D-4
0.55 AC

6 UNITED STATES OF AMERICA
TAX LOT: 0434 0812
ZONING: D-8
1.54 AC

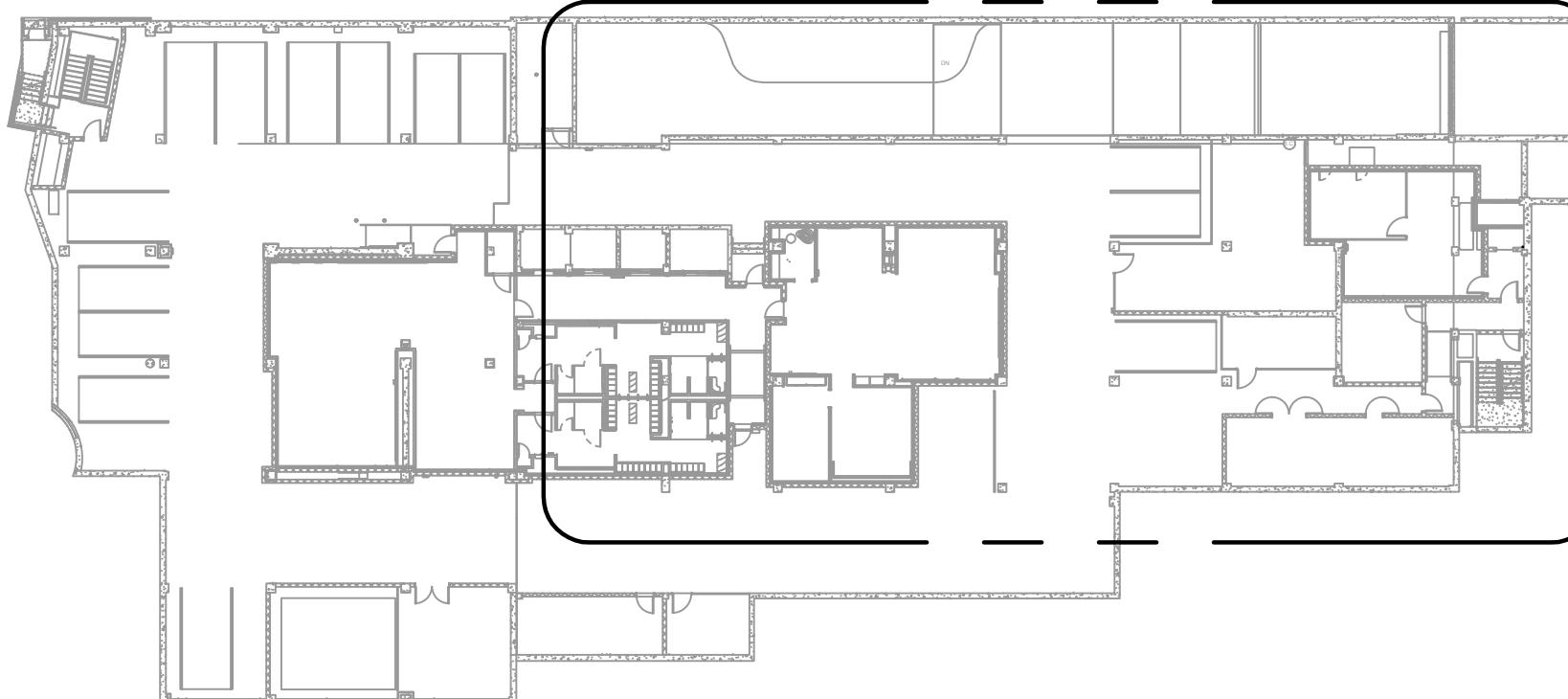
7 WMATA
TAX LOT: RES 01130000
ZONING: D-8
2.82 AC



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11830 West Market Place, Suite F
Fulton, MD 20759
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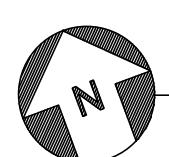
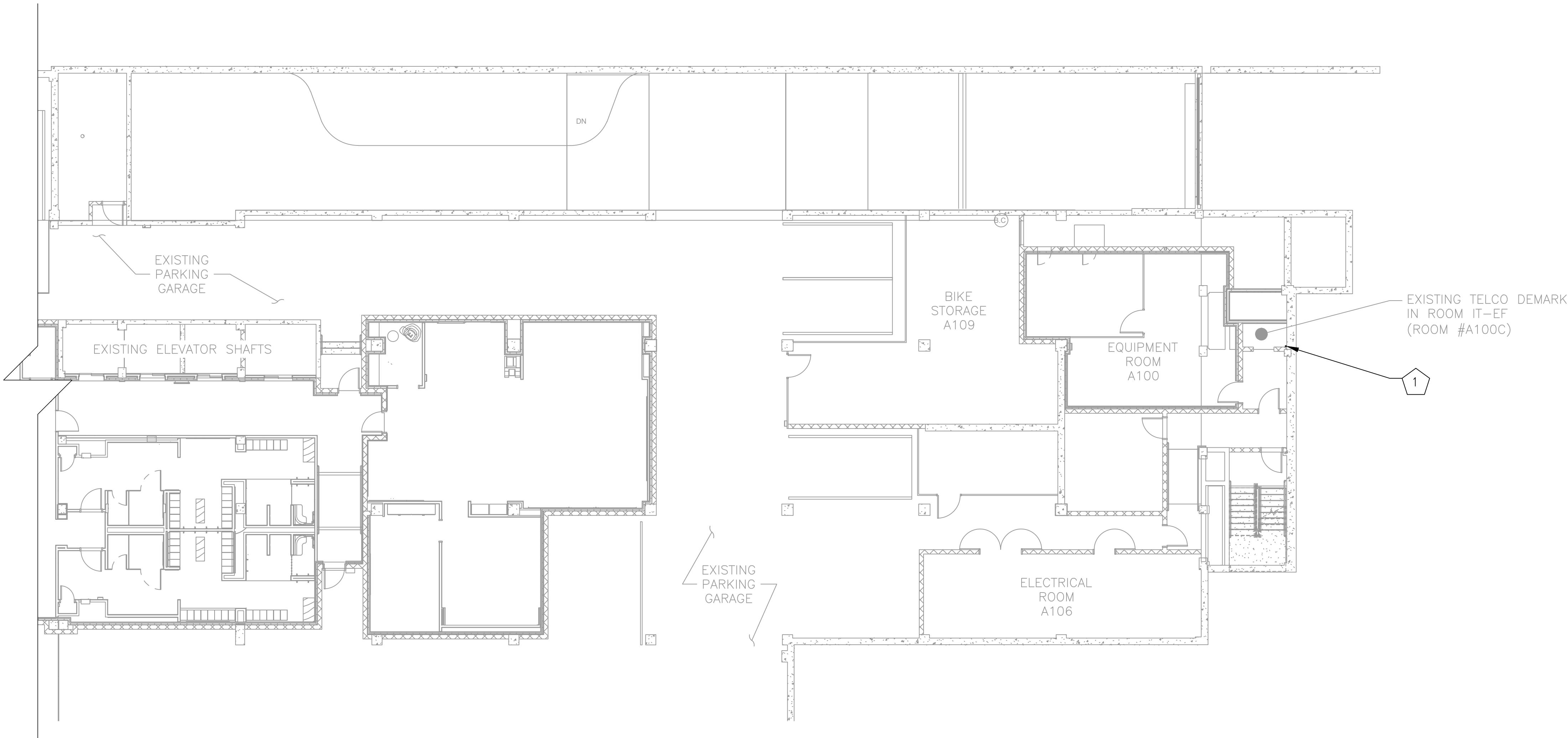
MOTOROLA SOLUTIONS



NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

A1 FLOOR - KEY PLAN



A1 FLOOR PLAN - ROUTING PLAN

SCALE: 1'=10'

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)



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INC.
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Fulton, MD 20759
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DESIGNED BY:	JW	10/15/24
DRAWN BY:	JW	10/15/24
CHECKED BY:	GT	10/15/24
APPROVED BY:	GT	10/15/24

REFERENCE DRAWINGS

NUMBER

TITLE

REVISIONS

NO.

DATE

DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

APPROVED
ALLEN WONDER
PROJECT MANAGER

**WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024**

M NO.
FQ

CONTRACT NO.
WMATA-LTR-22-001

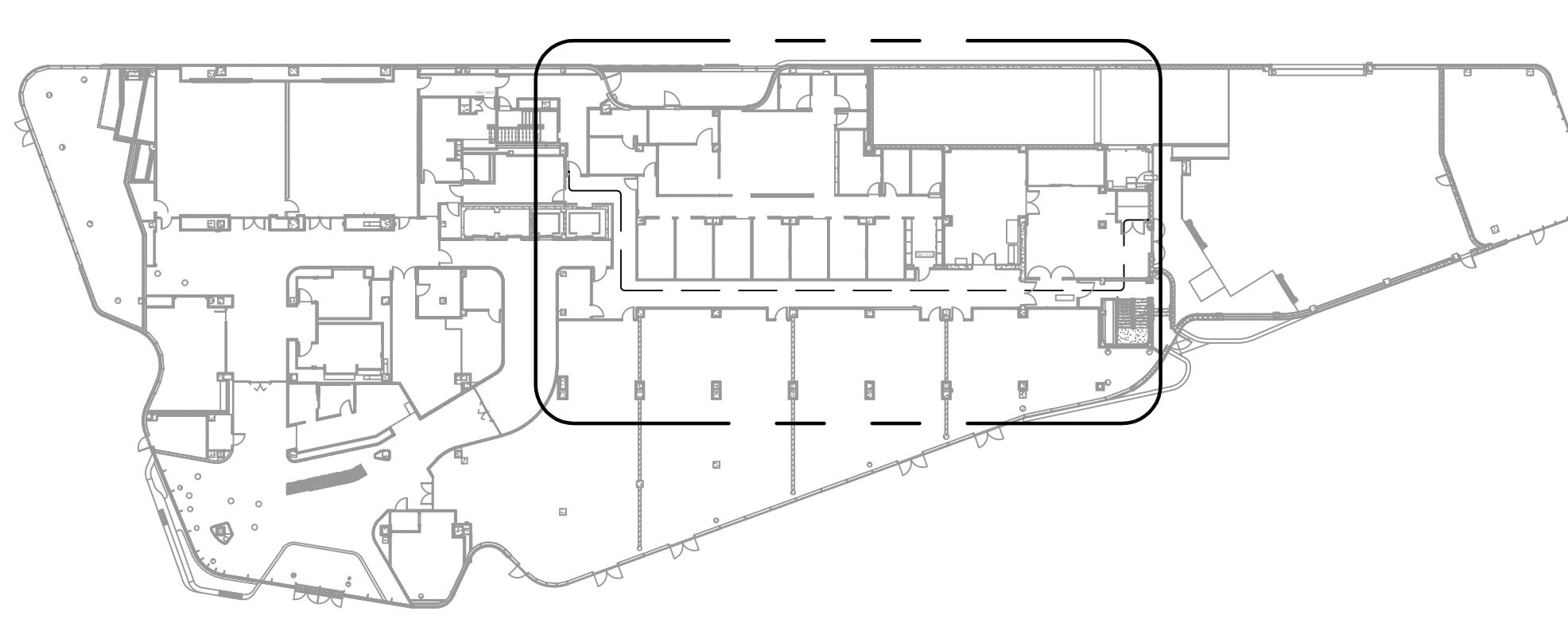
SCALE:
AS NOTED

KCI JOB NUMBER:
19240795B
WMATA JOB NUMBER:
WM700.AG.RF.09B.G0001

SHEET #
C0101

SHEET TITLE
A-1 FLOOR PLAN

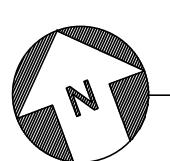
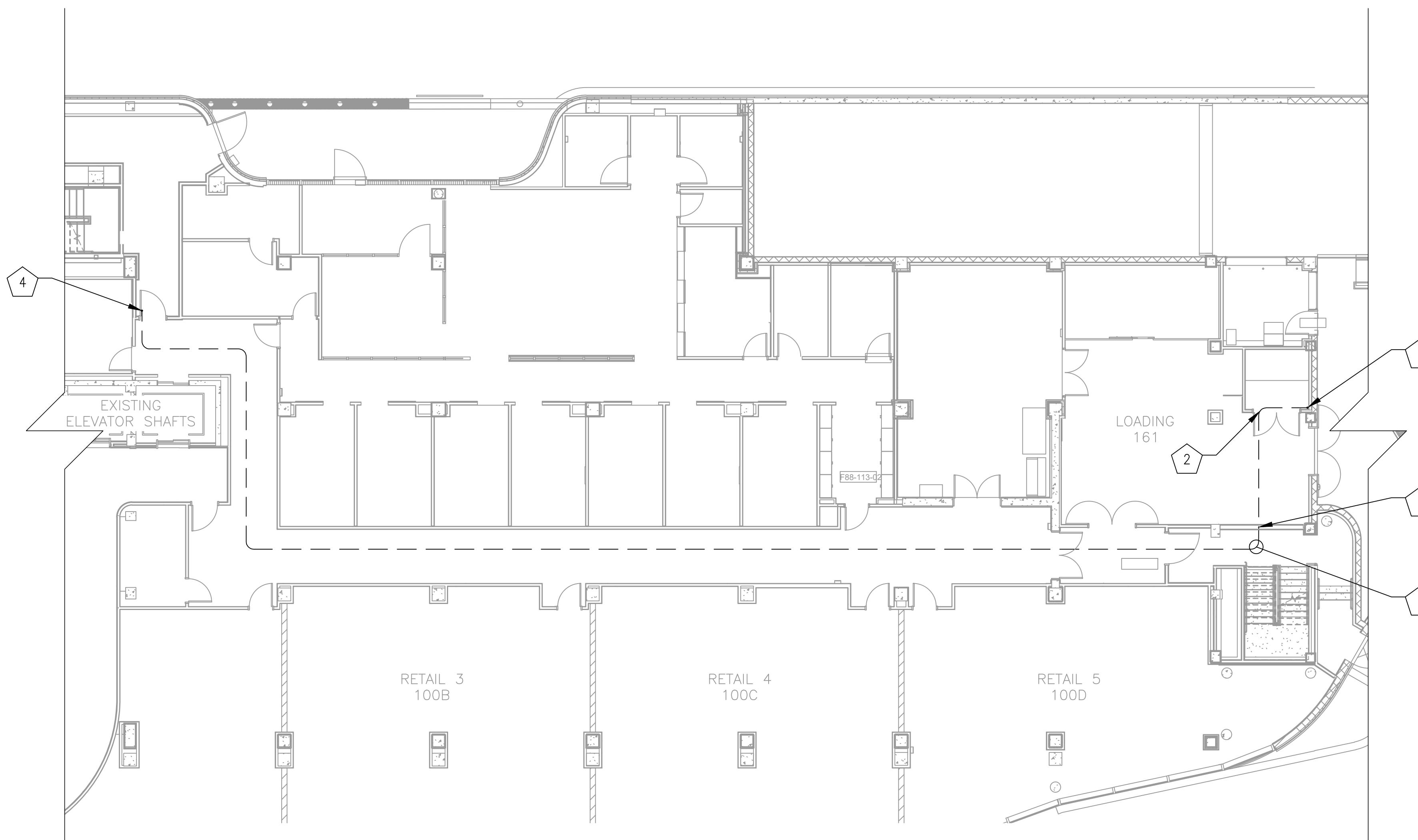
6 OF 35



1ST FLOOR - KEY PLAN

NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.



1ST FLOOR - ROUTING PLAN

SCALE: 1'=10'

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)



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Fulton, MD 20759
Phone: 410.792.8086



DESIGNED BY:	JW	10/15/24	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	TITLE	NO.	DATE
DRAWN BY:	JW	DATE	0	9/17/24	ZONING DRAWINGS SUBMISSION	
CHECKED BY:	GT	DATE	1	11/20/24	ZONING DRAWINGS SUBMISSION	
APPROVED BY:	GT	DATE	2	11/22/24	ZONING DRAWINGS SUBMISSION	

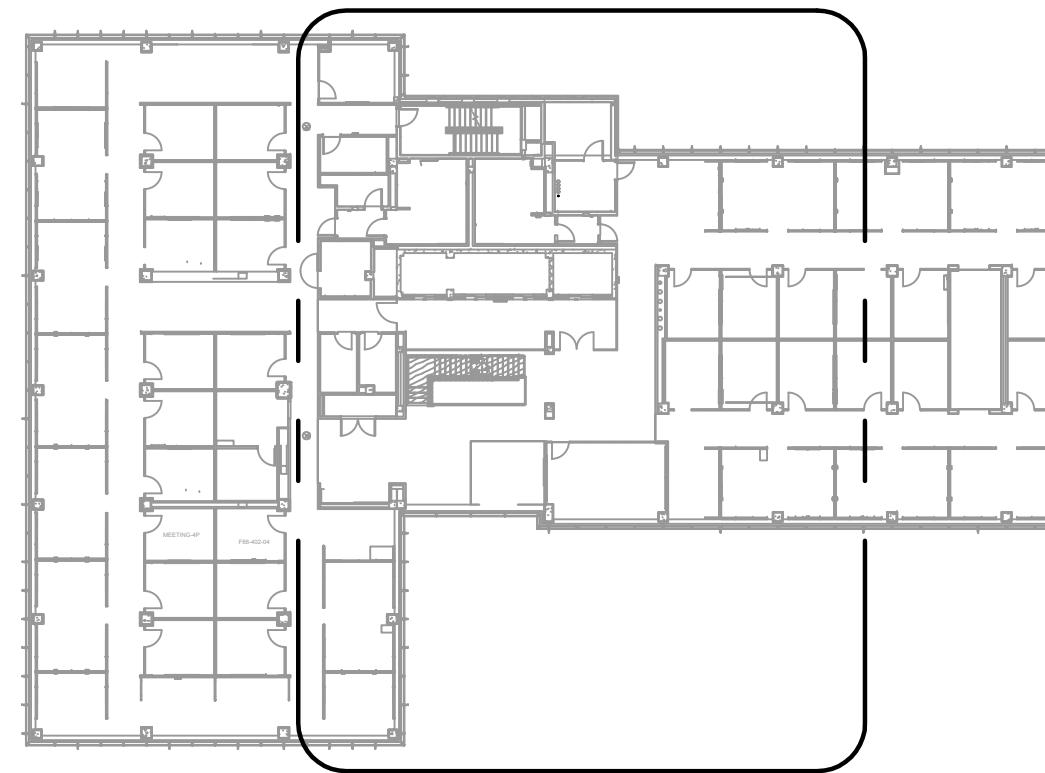
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		
DEPARTMENT OF COMMUNICATIONS AND SIGNALING		
APPROVED JOHN C. HOFBAUER ENGINEER OF RECORD	DATE	APPROVED ALLEN WONDER PROJECT MANAGER
		DATE

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

SHEET #
C0102

SHEET TITLE
1ST FLOOR PLAN

KCI JOB NUMBER: 19240795B	WMATA JOB NUMBER: WM700.AG.RF.09B.G0001	7 OF 35
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2ND-6TH FLOOR - KEY PLAN

NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

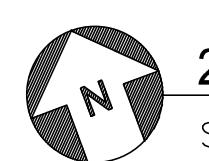
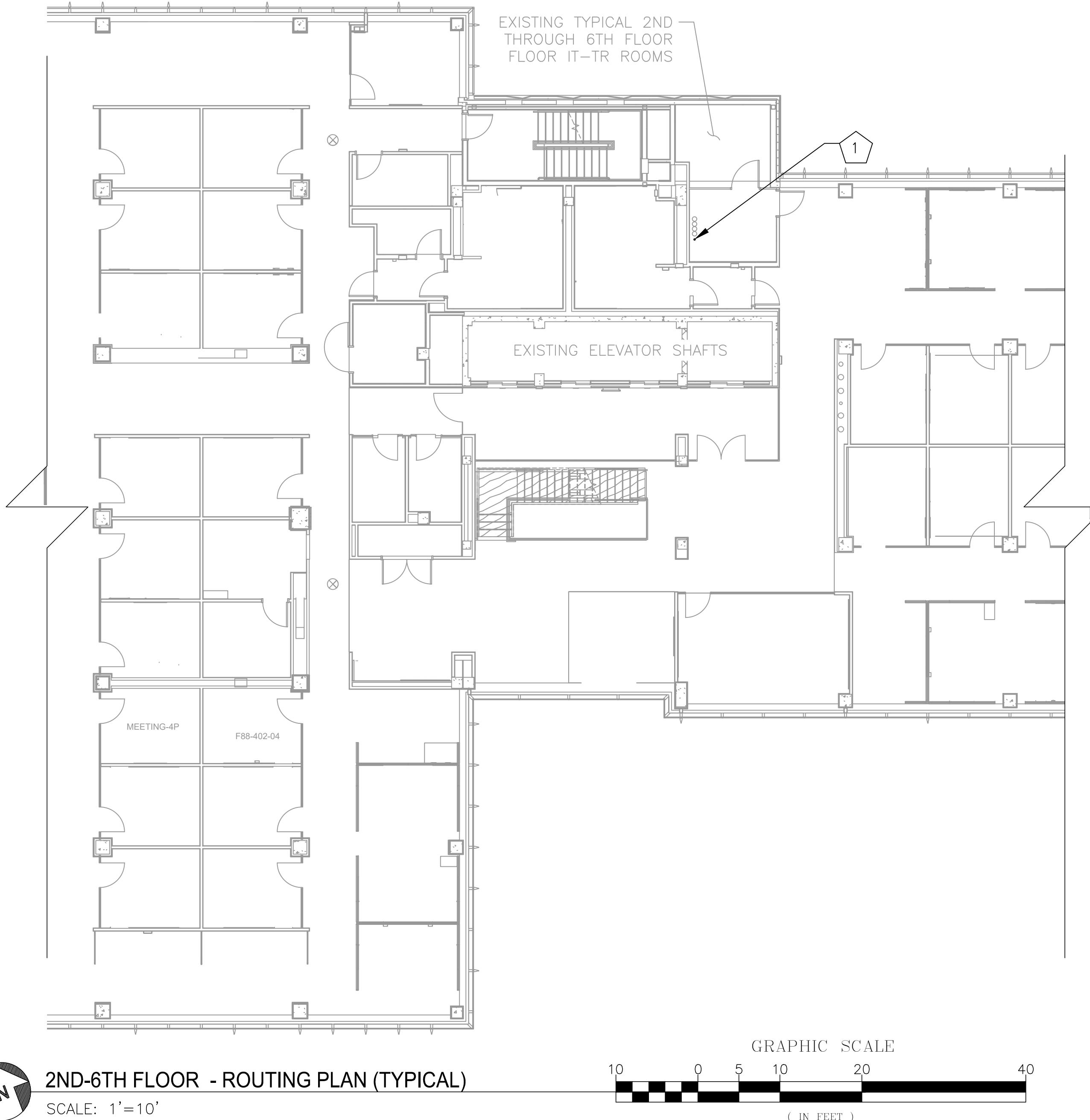
DCRA

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

NOTES - NEW WORK

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING
TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW,
UNLESS OTHERWISE NOTED.

1 PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND
ARMORED FIBER LINES IN FIRE PROOF NON METALLIC
SLEEVE. FROM 1ST FLOOR TO 7TH FLOOR.
REFER TO DETAIL SHEETS C0501 AND C0502.



2ND-6TH FLOOR - ROUTING PLAN (TYPICAL)

SCALE: 1' = 10'

DESIGNED BY: JW 10/15/24
DRAWN BY: JW 10/15/24
CHECKED BY: GT 10/15/24
APPROVED BY: GT 10/15/24

REFERENCE DRAWINGS
NUMBER TITLE

REVISIONS
NO. DATE DESCRIPTION

0	9/17/24	ZONING DRAWINGS SUBMISSION
1	11/20/24	ZONING DRAWINGS SUBMISSION
2	11/22/24	ZONING DRAWINGS SUBMISSION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

APPROVED
ALLEN WONDER
PROJECT MANAGER

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

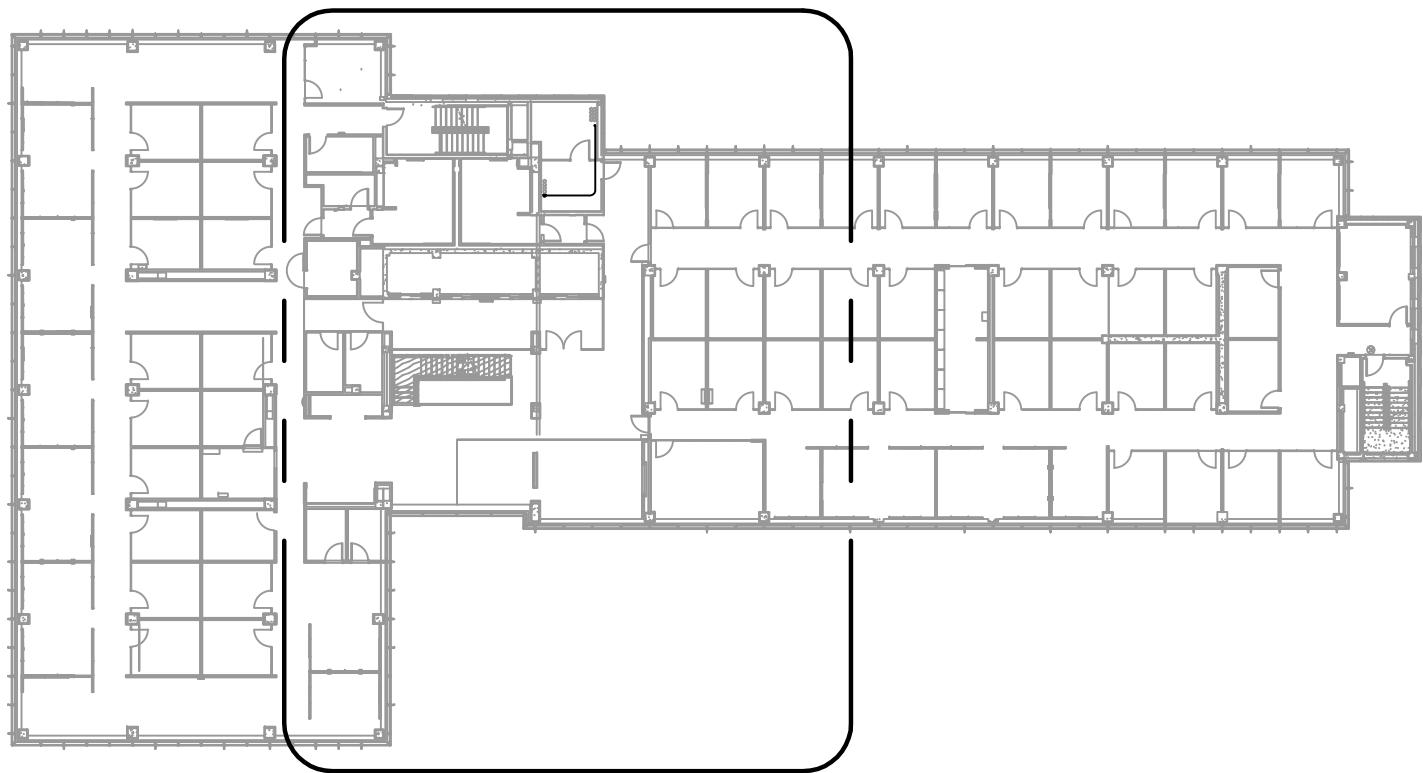
SHEET # C0103
SHEET TITLE 2ND-6TH FLOOR PLAN
KCI JOB NUMBER: 192400796B
WMATA JOB NUMBER: WM700.AG.RF.09B.G0001
8 OF 35



KCI
TECHNOLOGIES
11830 West Market Place, Suite F
Fulton, MD 20759
Phone: 410.792.8086



MOTOROLA SOLUTIONS



7TH-8TH FLOOR - KEY PLAN

NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

NOTES - NEW WORK

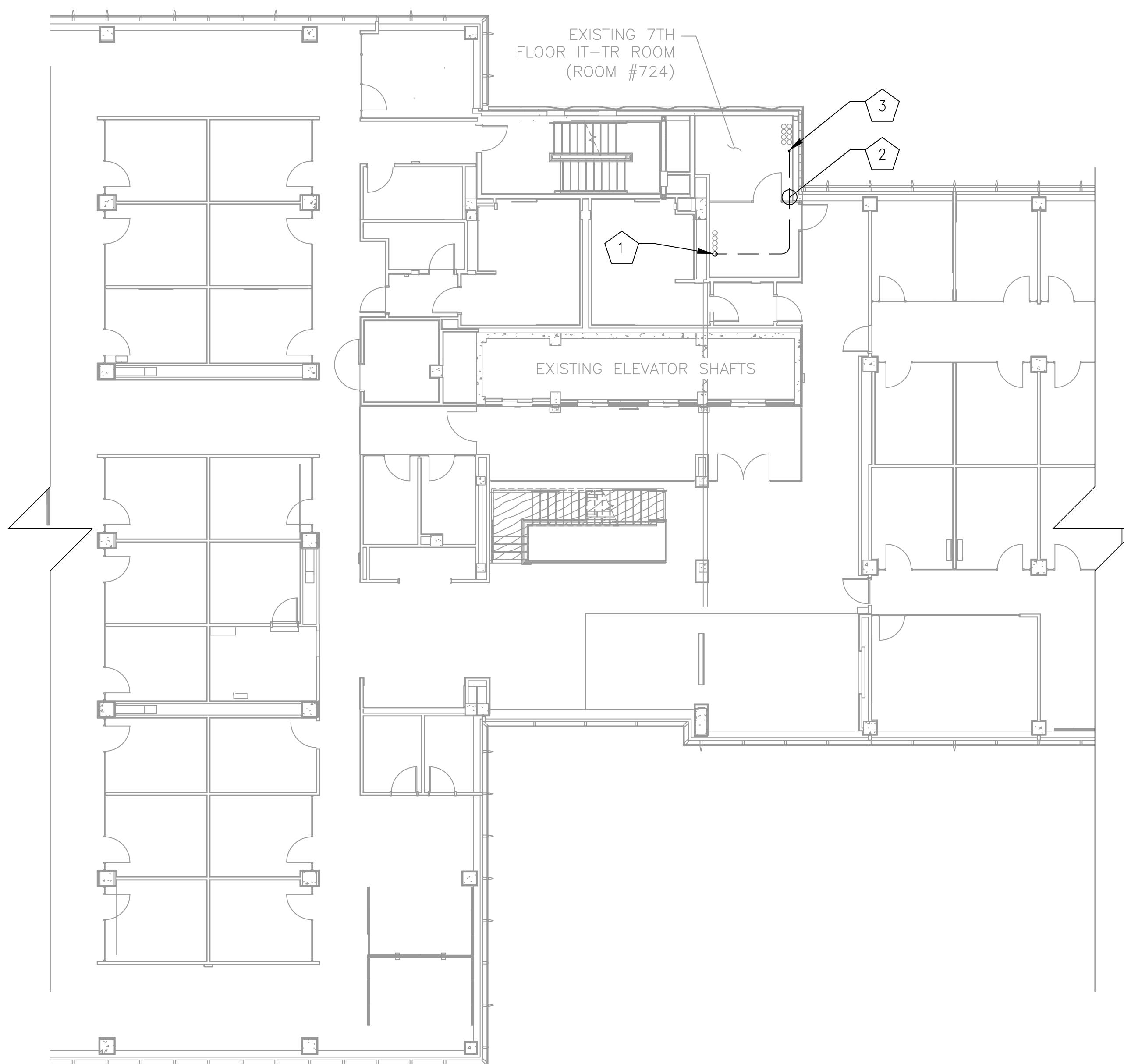
GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING
TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW,
UNLESS OTHERWISE NOTED.

1 PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND
ARMORED FIBER LINES IN FIRE PROOF NON METALLIC
SLEEVE. FROM 1ST FLOOR TO 7TH FLOOR.
REFER TO DETAIL SHEET C0501.

2 PROPOSED (2) 24-PAIR FIBER ARMORED LINES TO BE
ROUTED ALONG WALL IN EXISTING CABLE TRAY TO CORE
DRILL LOCATIONS IN ROOM 724.

3 PROPOSED (1) 2" CORE DRILL FOR (2) 24-STRAND
ARMORED FIBER LINES IN FIRE PROOF NON METALLIC
SLEEVE. FROM 7TH FLOOR TO 9TH FLOOR.
REFER TO DETAIL SHEET C0501.

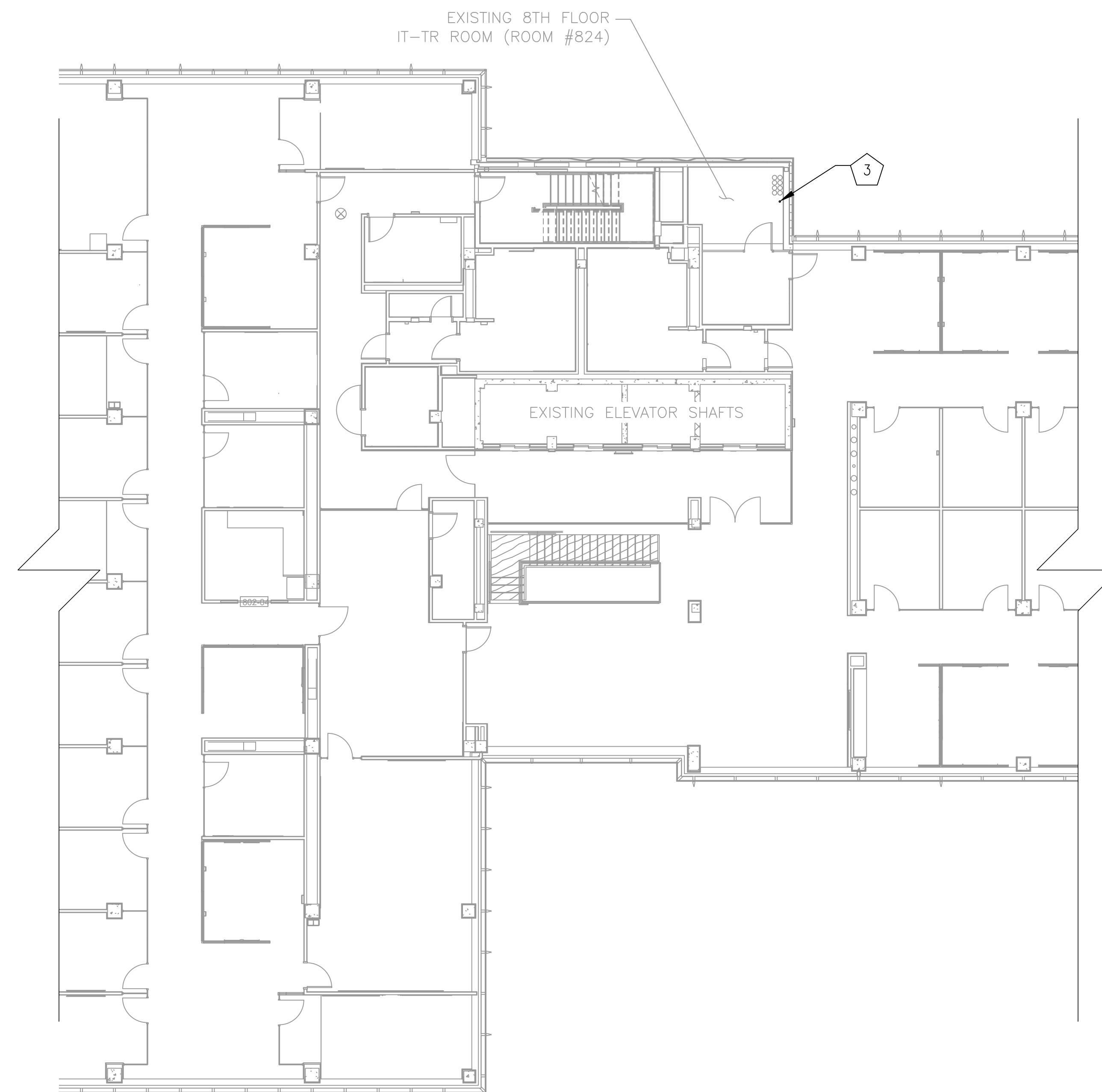
DCRA



7TH FLOOR - ROUTING PLAN

SCALE: 1'=10'

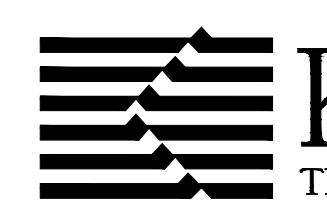
GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)



8TH FLOOR - ROUTING PLAN

SCALE: 1'=10'

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)

 KCI
TECHNOLOGIES
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11830 West Market Place, Suite F
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Phone: 410.792.8086

 MOTOROLA SOLUTIONS

DESIGNED BY:	JW	10/15/24	DATE
DRAWN BY:	JW	10/15/24	DATE
CHECKED BY:	GT	10/15/24	DATE
APPROVED BY:	GT	10/15/24	DATE

REFERENCE DRAWINGS

NUMBER

TITLE

NO.

DATE

DESCRIPTION

ZONING

DRAWINGS

SUBMISSION

0

9/17/24

ZONING

DRAWINGS

SUBMISSION

1

11/20/24

ZONING

DRAWINGS

SUBMISSION

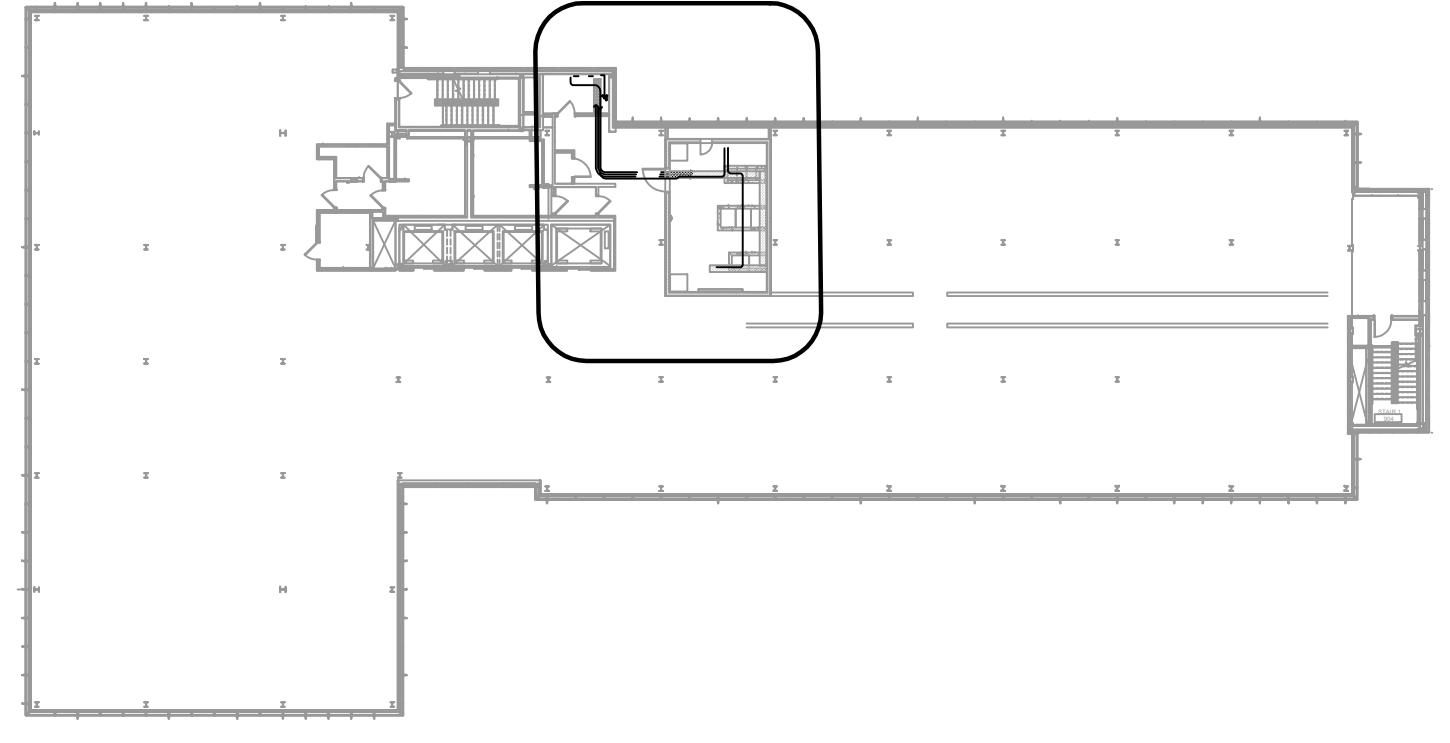
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11/22/24

ZONING

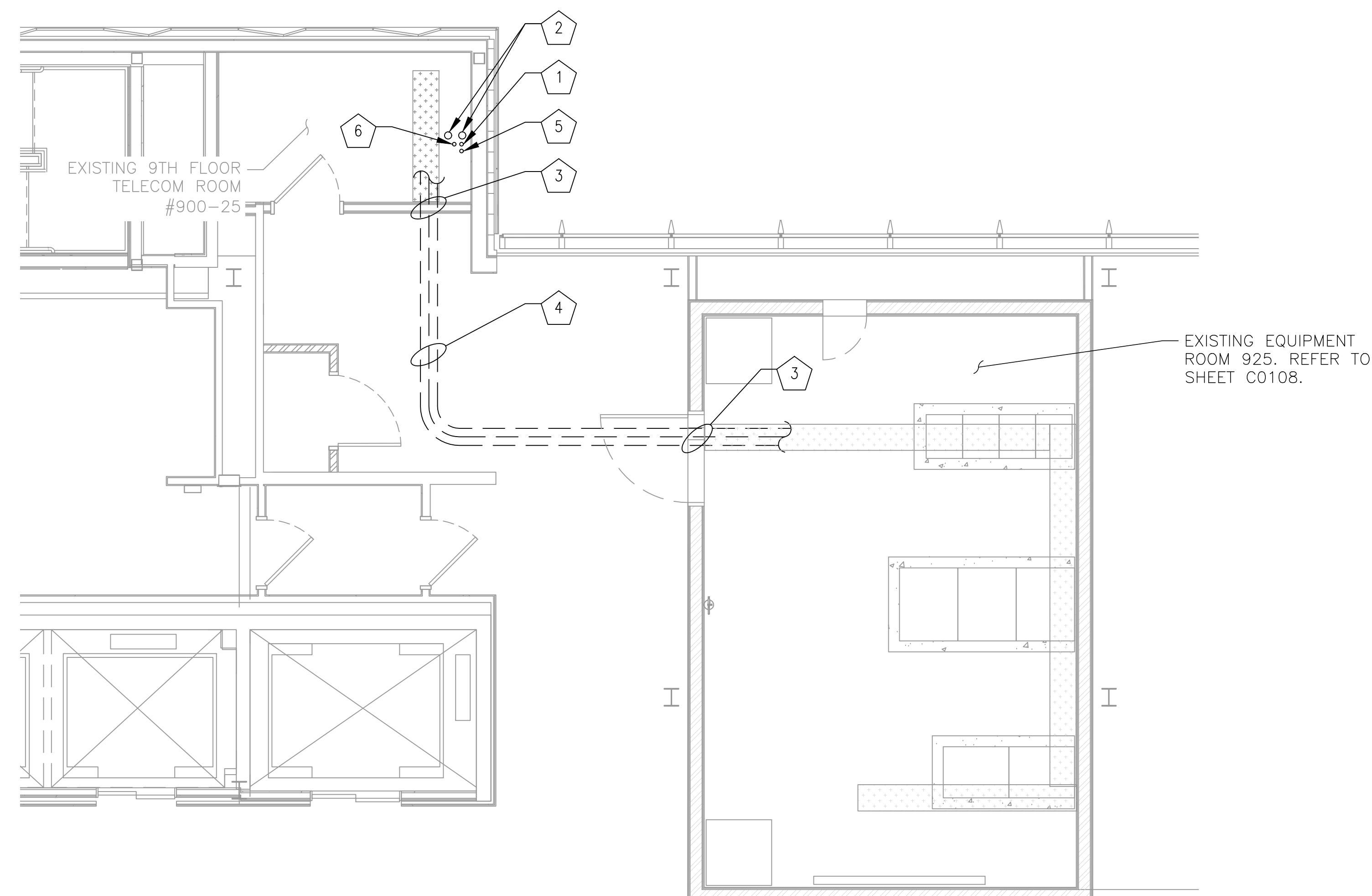
DRAWINGS

SUBMISSION



NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

9TH FLOOR - KEY PLAN



NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

NOTES - NEW WORK

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING
TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW,
UNLESS OTHERWISE NOTED.

- 1 PROPOSED (1) 2" CORE DRILL UP FROM 8TH FLOOR IT-TR
ROOM (ROOM #824). FOR (2) 24-STRAND ARMORED FIBER
LINES IN FIRE PROOF NON METALLIC SLEEVE.
REFER TO DETAIL SHEET C0501.
- 2 PROPOSED (2) 4" CORE DRILLS FROM 9TH FLOOR TO 12TH
FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR RF
LINES TO PROPOSED ANTENNAS AND GPS. REFER TO DETAIL
SHEET C0501.
- 3 PROPOSED TRANSIT FRAME THROUGH WALL TO HALLWAY.
REFER TO SHEET C0503 FOR DETAIL.
- 4 PROPOSED LINES FROM EXISTING TELECOM ROOM TO
EXISTING EQUIPMENT ROOM IN DROP DOWN CEILING.

RF LINES FROM ROOF DOWN TO 9TH FLOOR EQUIPMENT
ROOM:
(3) 7/8" - 2 TRANSMIT, 1 RECEIVE
(1) 1/2" - MULTI COLOR
(2) 1/2" - FOR GPS

POWER LINE FROM ROOM 900-25 TO 925. REFER TO
ELECTRICAL SHEETS FOR DETAIL.
(1) 2" - EMT CONDUIT

PROPOSED 1/0 GROUND LINE FROM EQUIPMENT ROOM
TO 12TH FLOOR ELECTRICAL ROOM. REFER TO
GROUNDING SHEETS FOR DETAIL.

FIBER ROUTED FROM A1 FIBER DEMARK UP TO 9TH
FLOOR EQUIPMENT ROOM:
(2) 24 STRAND-FIBER LINES
- 5 PROPOSED (1) 1" CORE DRILL FROM 9TH FLOOR TELCO
ROOM 900-25 TO 12TH FLOOR PENTHOUSE IN NON
METALLIC SLEEVE. FOR GROUND LINE TO PRINCIPLE
GROUND BAR. REFER TO DETAIL SHEET C0501.
- 6 PROPOSED (1) 2" CORE DRILL FROM 9TH FLOOR TO 12TH
FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR
PROPOSED POWER LINE. REFER TO DETAIL SHEET C0501.



9TH FLOOR - ROUTING PLAN

SCALE: 1'=10'

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)

DESIGNED BY: JW 10/15/24
DRAWN BY: JW 10/15/24
CHECKED BY: GT 10/15/24
APPROVED BY: GT 10/15/24

REFERENCE DRAWINGS

NUMBER	TITLE	NO.	DATE	DESCRIPTION
		0	9/17/24	ZONING DRAWINGS SUBMISSION
		1	11/20/24	ZONING DRAWINGS SUBMISSION
		2	11/22/24	ZONING DRAWINGS SUBMISSION

REVISIONS



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

APPROVED
ALLEN WONDER
PROJECT MANAGER

**WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024**

M NO.
FQ

CONTRACT NO.
WMATA-LTR-22-001

SCALE:
AS NOTED

KCI JOB NUMBER:
192400795B
WMATA JOB NUMBER:
WM700.AG.RF.09B.G0001

SHEET #
C0105

SHEET TITLE
9TH FLOOR PLAN

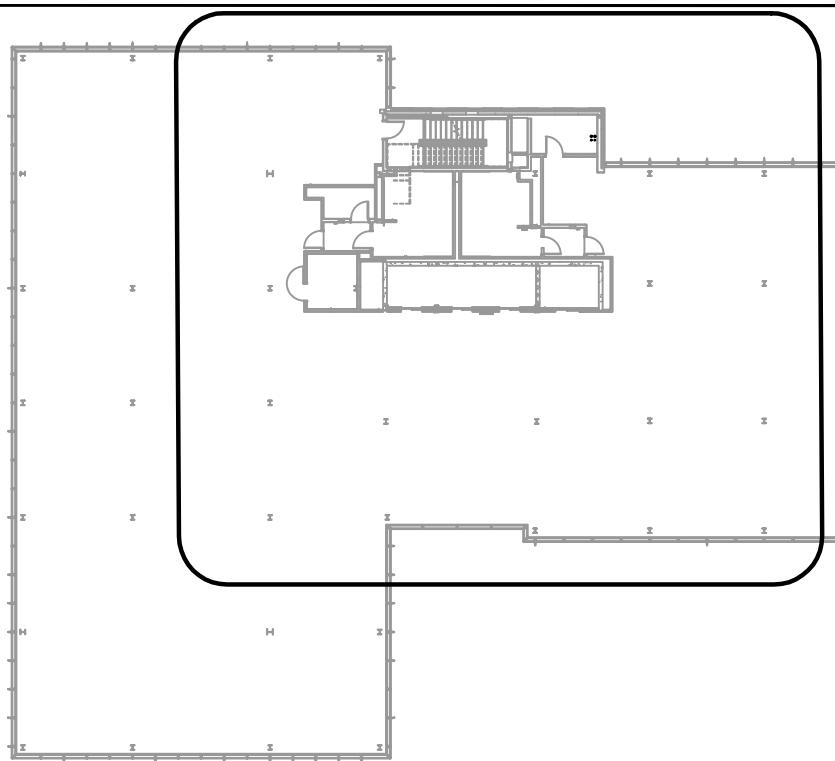
10 OF 35



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11830 West Market Place, Suite F
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10TH FLOOR - KEY PLAN

NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
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NOTE:
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CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

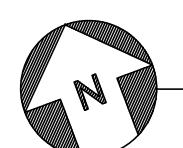
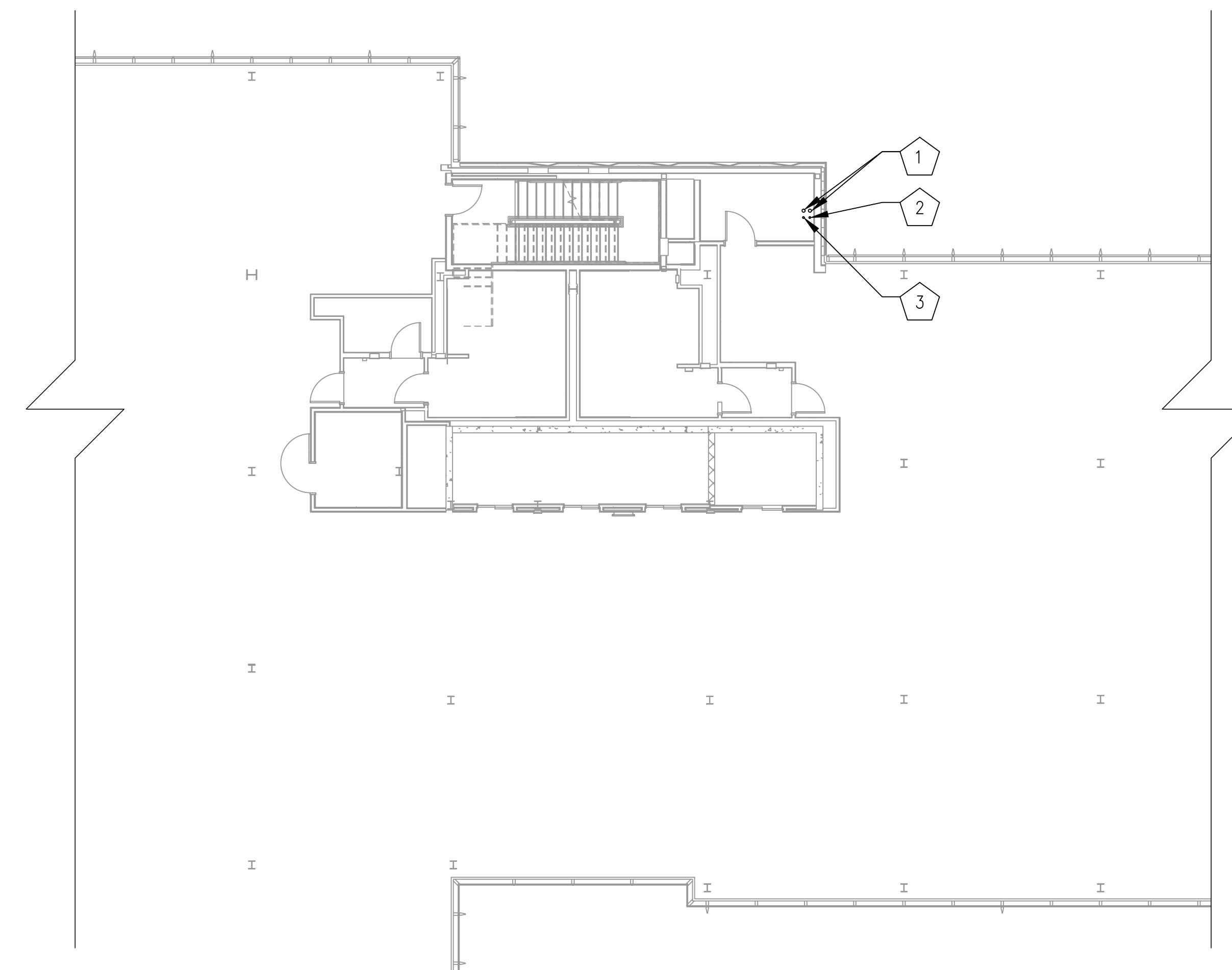
NOTES - NEW WORK

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING
TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW,
UNLESS OTHERWISE NOTED.

1 PROPOSED (2) 4" CORE DRILLS FROM 9TH FLOOR TO
12TH FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR
RF LINES TO PROPOSED ANTENNAS AND GPS. REFER TO
DETAIL SHEET C0501.

2 PROPOSED (1) 1" CORE DRILL FROM 9TH FLOOR TELCO
ROOM 900-25 TO 12TH FLOOR PENTHOUSE IN NON
METALLIC SLEEVE. FOR GROUND LINE TO PRINCIPLE
GROUND BAR. REFER TO DETAIL SHEET C0501.

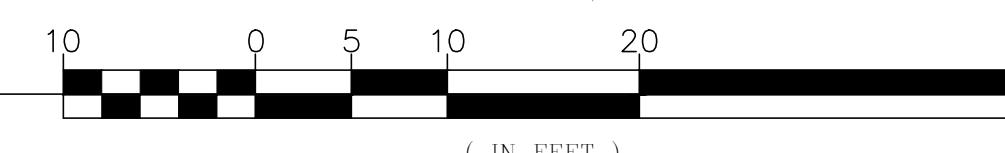
3 PROPOSED (1) 2" CORE DRILL FROM 9TH FLOOR TO
12TH FLOOR PENTHOUSE IN NON METALLIC SLEEVE. FOR
PROPOSED POWER LINE. REFER TO DETAIL SHEET C0501.



10TH-11TH FLOOR - ROUTING PLAN

SCALE: 1'=10'

GRAPHIC SCALE



DESIGNED BY: JW 10/15/24
DRAWN BY: JW 10/15/24
CHECKED BY: GT 10/15/24
APPROVED BY: GT 10/15/24

REFERENCE DRAWINGS
NUMBER TITLE DATE DESCRIPTION

0	9/17/24	ZONING DRAWINGS SUBMISSION
1	11/20/24	ZONING DRAWINGS SUBMISSION
2	11/22/24	ZONING DRAWINGS SUBMISSION

REVISIONS
NUMBER TITLE DATE DESCRIPTION

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1	11/20/24	ZONING DRAWINGS SUBMISSION
2	11/22/24	ZONING DRAWINGS SUBMISSION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF COMMUNICATIONS AND SIGNALING

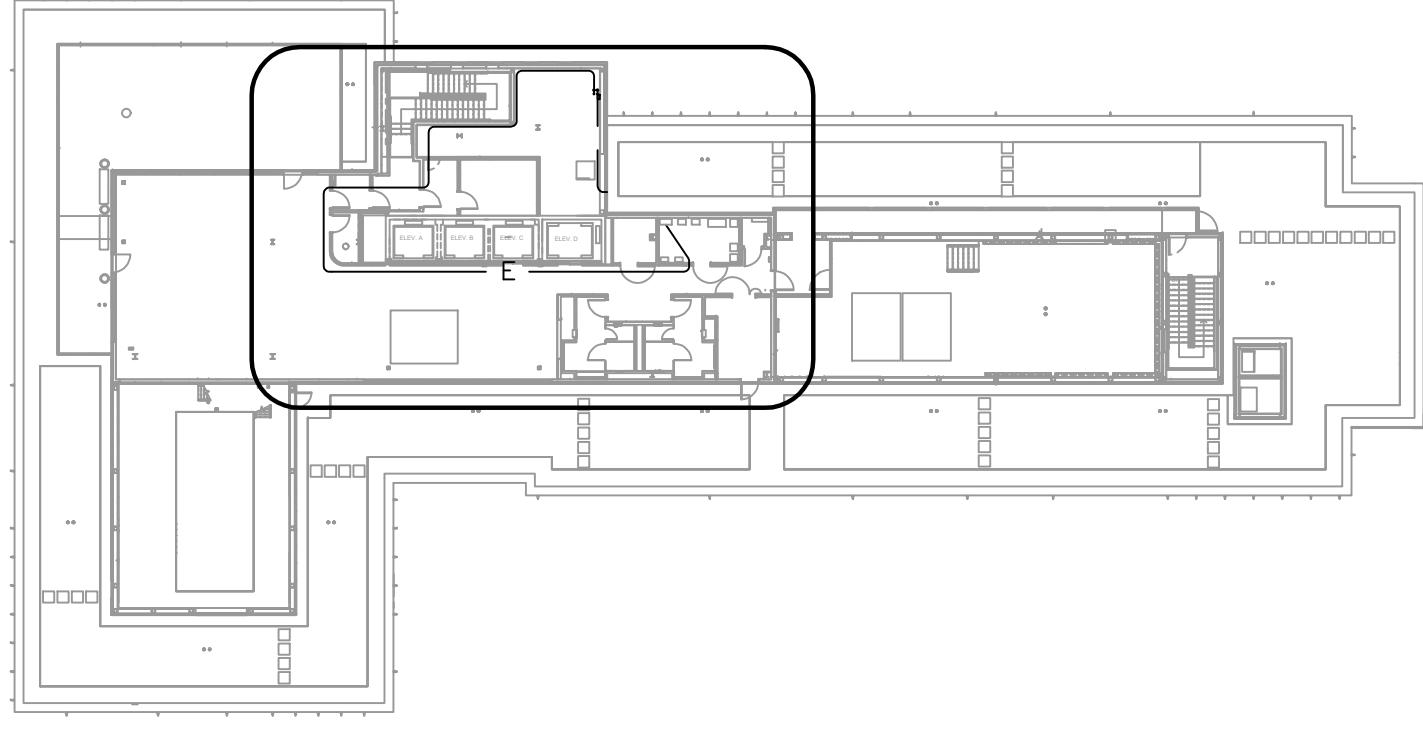
APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORDAPPROVED
ALLEN WONDER
PROJECT MANAGER

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

Sheet # C0106
SHEET TITLE 10TH-11TH FLOOR PLANS
KCI Job Number: 19240795B
WMATA Job Number: WM700.AG.RF.09B.G0001
11 OF 35



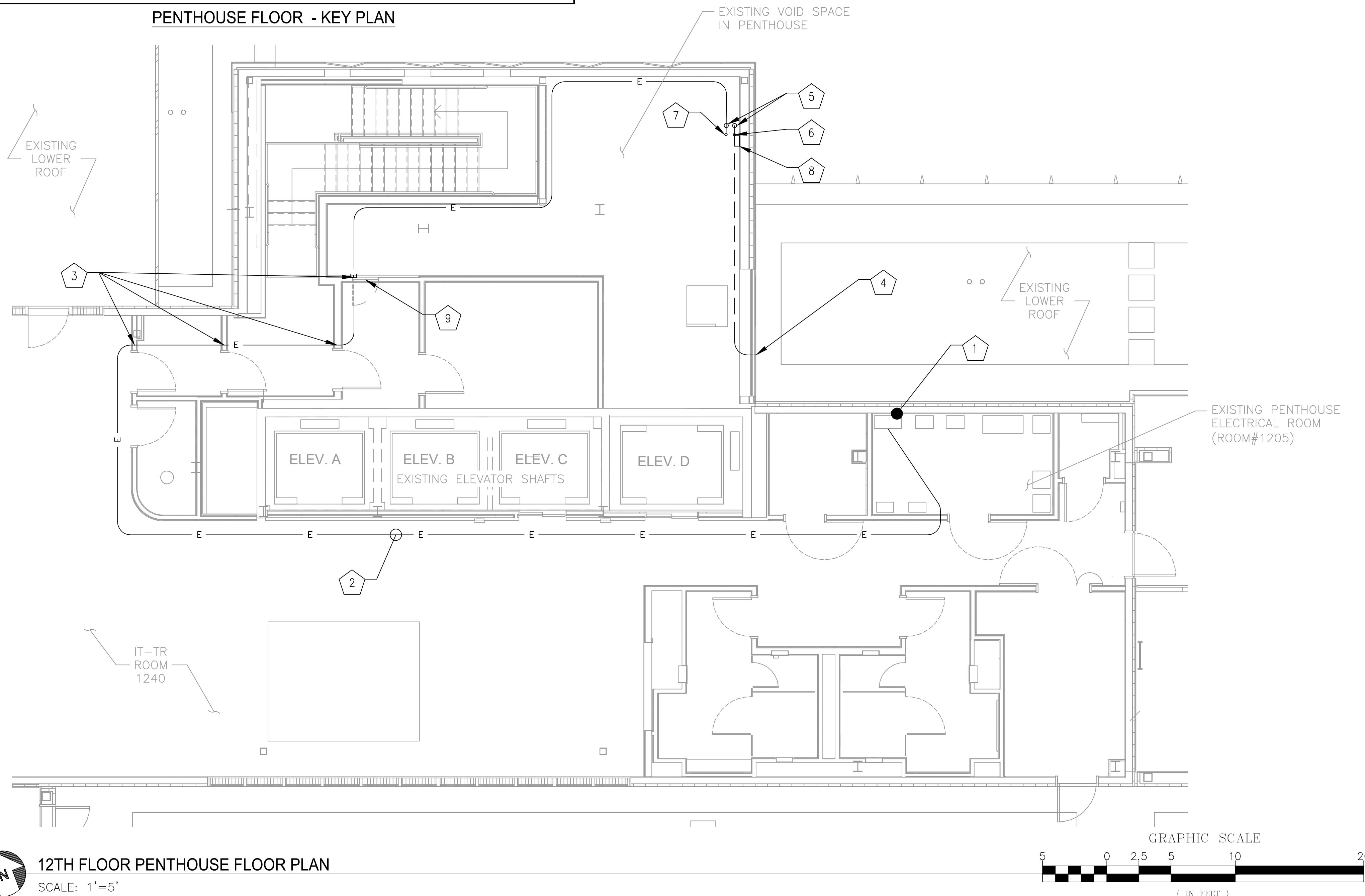
MOTOROLA SOLUTIONS



NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
CONTRACTOR TO FIELD VERIFY PRIOR TO
CONSTRUCTION THAT PROPOSED ROUTE AND CORE
DRILL LOCATIONS HAVE NOT BEEN OBSTRUCTED
SINCE THE JULY 2024 SITE VISITS AND GPR SCANS.

PENTHOUSE FLOOR - KEY PLAN

12TH FLOOR PENTHOUSE FLOOR PLAN
SCALE: 1'=5'

NOTES - NEW WORK

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE
WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES
SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE
NOTED.

1 APPROXIMATE LOCATION OF PHLR ELECTRICAL
PANEL. REFER TO SHEET E0101 FOR DETAIL.

2 2" PROPOSED EMT CONDUIT, TO BE ROUTED
IN DROP DOWN CEILING FROM EXISTING
PENTHOUSE ELECTRICAL ROOM TO VOID
SPACE CORE DRILL. REFER TO SHEET C0502
FOR DETAIL.

NOTE: 1/0 GROUND TO BE RUN ALONG SIDE
PROPOSED POWER REFER TO GROUNDING
SHEETS FOR MORE INFORMATION.

3 PROPOSED CORE DRILL FOR (1) 2" CONDUIT
FROM 12TH FLOOR PENTHOUSE ELECTRICAL
ROOM (ROOM #1216) TO CORE DRILL IN
VOID SPACE. REFER TO DETAIL SHEET C0501.
NOTE: (1) 1" EMT CONDUIT WILL NEED A
CORE DRILL FOR GROUNDING PATH. REFER
TO SHEET GR0102.

4 PROPOSED CORE DRILL FOR (2) 4" CORE
DRILLS FOR RF LINES FROM VOID SPACE TO
EXTERIOR OF BUILDING ON MAIN ROOF.

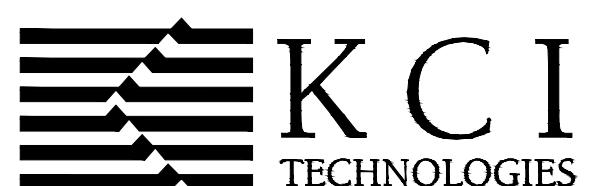
5 PROPOSED (2) 4" CORE DRILLS FROM 9TH
FLOOR TO 12TH FLOOR PENTHOUSE. FOR RF
LINES TO PROPOSED ANTENNAS AND GPS IN
NON METALLIC SLEEVES. REFER TO DETAIL
SHEET C0501.

6 PROPOSED (1) 1" CORE DRILL FROM 9TH
FLOOR TELCO ROOM 900-25 TO 12TH FLOOR
PENTHOUSE. FOR GROUND LINE TO PRINCIPLE
GROUND BAR IN NON METALLIC SLEEVES.
REFER TO GROUNDING SHEETS FOR DETAIL.

7 PROPOSED (1) 2" CORE DRILL FROM 12TH
FLOOR PENTHOUSE TO 9TH FLOOR. FOR
PROPOSED POWER LINE IN NON METALLIC
SLEEVES. REFER TO DETAIL SHEET C0501.

8 PROPOSED PULL BOX ATTACHED TO WALL IN
VOID SPACE.
NOTE: GROUNDING TO RUN THROUGH PULL
BOX BEFORE HEADING DOWN TO 9TH FLOOR.

9 PROPOSED ACCESS PANEL IN EXISTING WALL
OF STAIR WELL TO ACCESS VOID SPACE.



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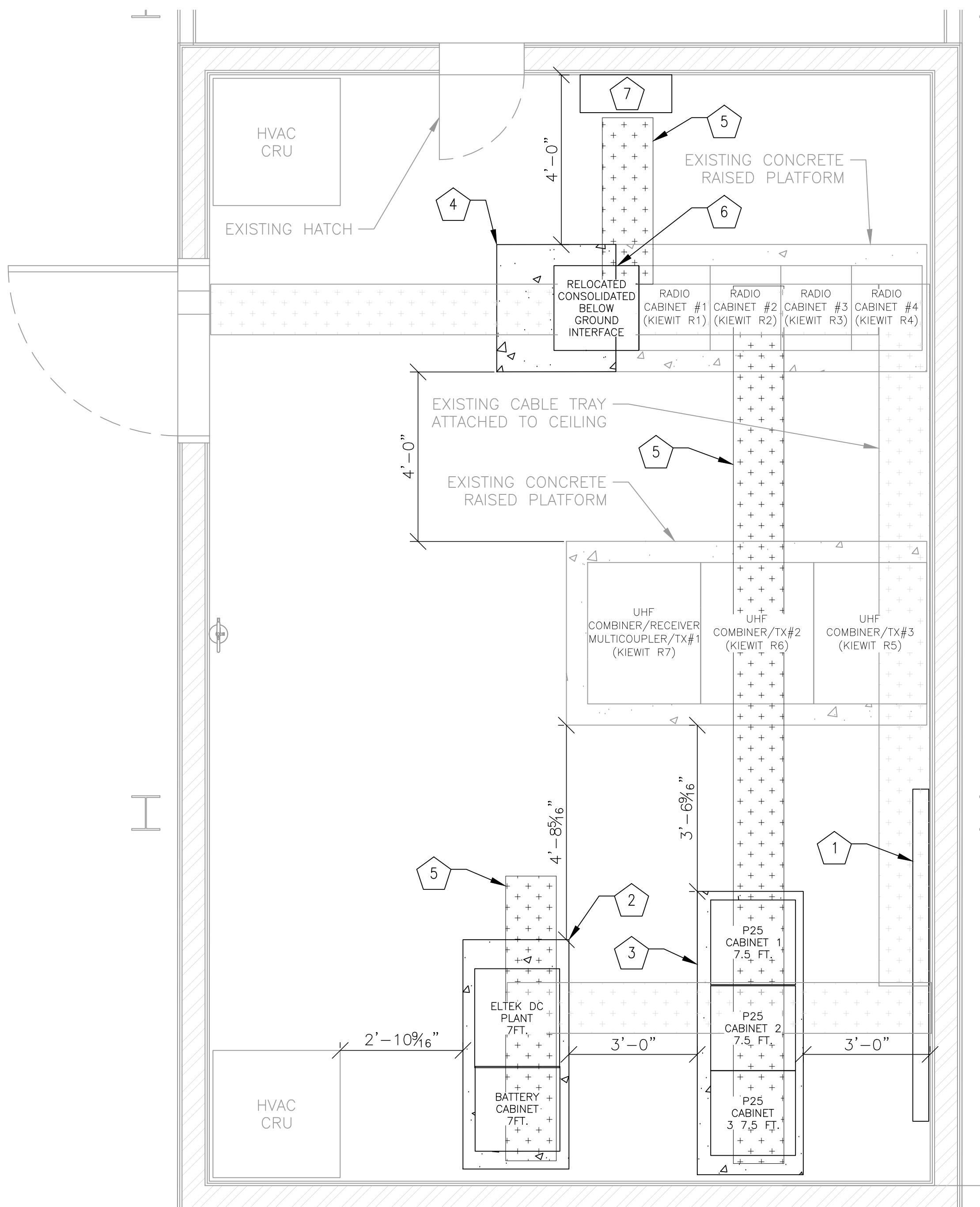
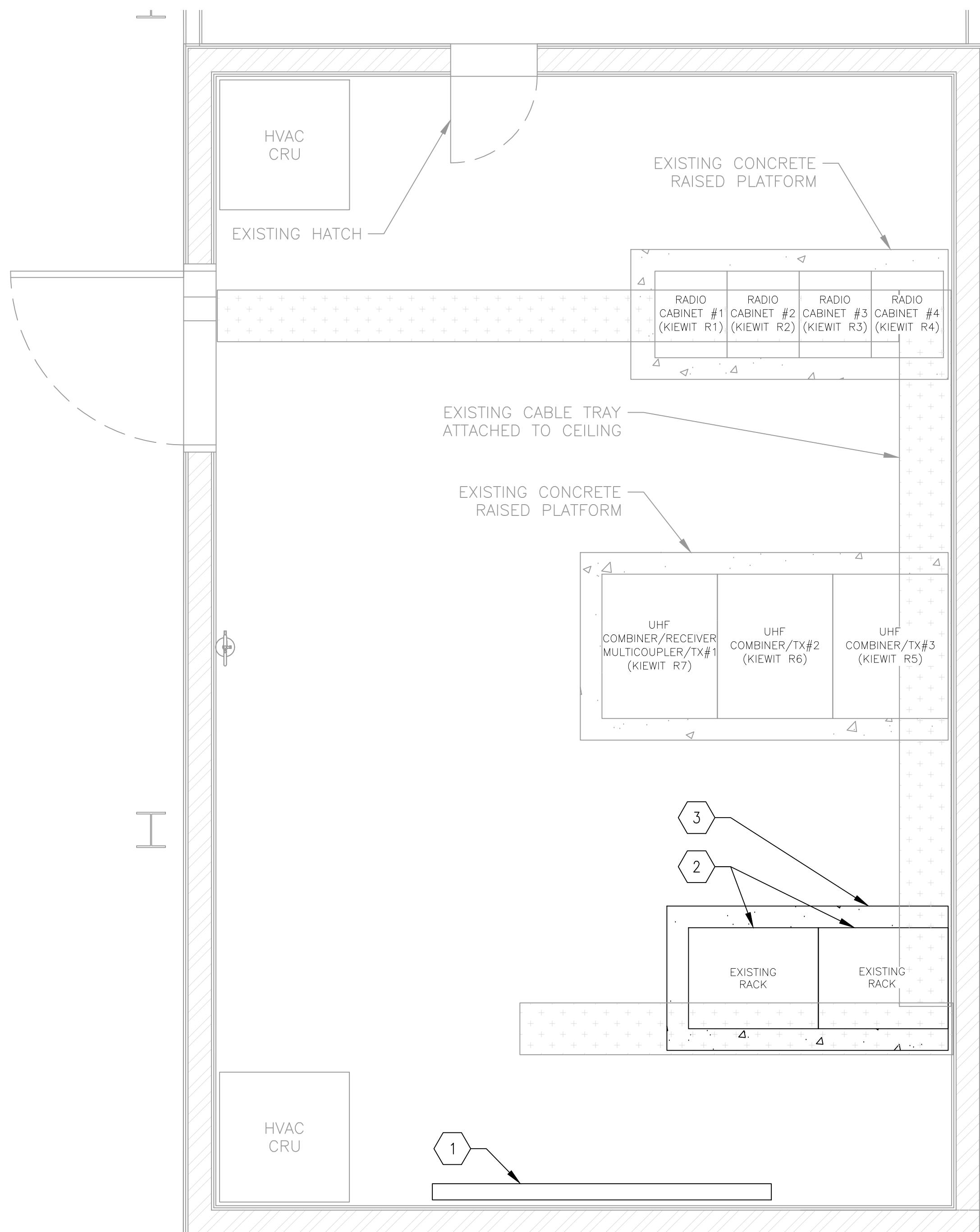
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CHECKED BY:	GT	DATE		1	11/20/24		ZONING DRAWINGS SUBMISSION		
APPROVED BY:	GT	DATE		2	11/22/24		ZONING DRAWINGS SUBMISSION		

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

M NO.	CONTRACT NO.	SCALE:	KCI JOB NUMBER: 192400795B WMATA JOB NUMBER: WM700.AG.RF.09B.G0001	12 OF 35
FQ	WMATA-LTR-22-001	AS NOTED		

NOTE:
ALL DISTURBED AREAS THAT REQUIRE REPAINTING
SHOULD MATCH EXISTING PAINT COLORS.

NOTE:
REFER TO SHEET S0503 FOR CONCRETE PAD
DETAILS FOR PROPOSED EQUIPMENT ROOM.



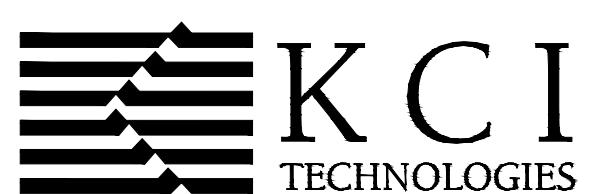
NOTES - TO BE REMOVED

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

- ① EXISTING TELCO BOARD TO BE RELOCATED
- ② EXISTING RACK TO BE REMOVED AND EQUIPMENT TO BE CONSOLIDATED. (REFER TO PROPOSED NOTES FOR WHERE)
- ③ EXISTING CONCRETE RAISED PLATFORM TO BE REMOVED.

NOTES - PROPOSED WORK

- ① RELOCATED TELCO BOARD
- ② PROPOSED 2'-6"X6'-5" RAISED CONCRETE PLATFORM. REFER TO SHEET S0503 FOR DETAIL
- ③ PROPOSED 2'-6"X6'-8" RAISED CONCRETE PLATFORM. REFER TO SHEET S0503 FOR DETAIL
- ④ PROPOSED 2'-10"X3'-0" RAISED CONCRETE PLATFORM. REFER TO SHEET S0503 FOR DETAIL
- ⑤ PROPOSED CABLE TRAY (TYPICAL.) REFER TO SHEET C0502 FOR DETAIL.
- ⑥ RELOCATED AND CONSOLIDATED RACK.
- ⑦ PROPOSED GEN-WM 250AMP PANEL MOUNTED TO WALL IN EQUIPMENT ROOM 925. REFER TO SHEET ELECTRICAL SHEETS FOR MORE INFORMATION.



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9TH FLOOR - EXISTING EQUIPMENT ROOM PLAN
SCALE: 1'=2'

GRAPHIC SCALE
2 0 1 2 4 8
(IN FEET)

9TH FLOOR - PROPOSED EQUIPMENT ROOM PLAN
SCALE: 1'=10'



DESIGNED BY:	JW	10/15/24	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	TITLE	NO.	DATE
DRAWN BY:	JW	10/15/24			0	9/17/24
DATE						ZONING DRAWINGS SUBMISSION
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DATE						ZONING DRAWINGS SUBMISSION
APPROVED BY:	GT	10/15/24			2	11/22/24
DATE						ZONING DRAWINGS SUBMISSION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		
DEPARTMENT OF COMMUNICATIONS AND SIGNALING		
APPROVED JOHN C. HOFBAUER ENGINEER OF RECORD	APPROVED ALLEN WONDER PROJECT MANAGER	DATE
M NO. FQ	CONTRACT NO. WMATA-LTR-22-001	SCALE: AS NOTED

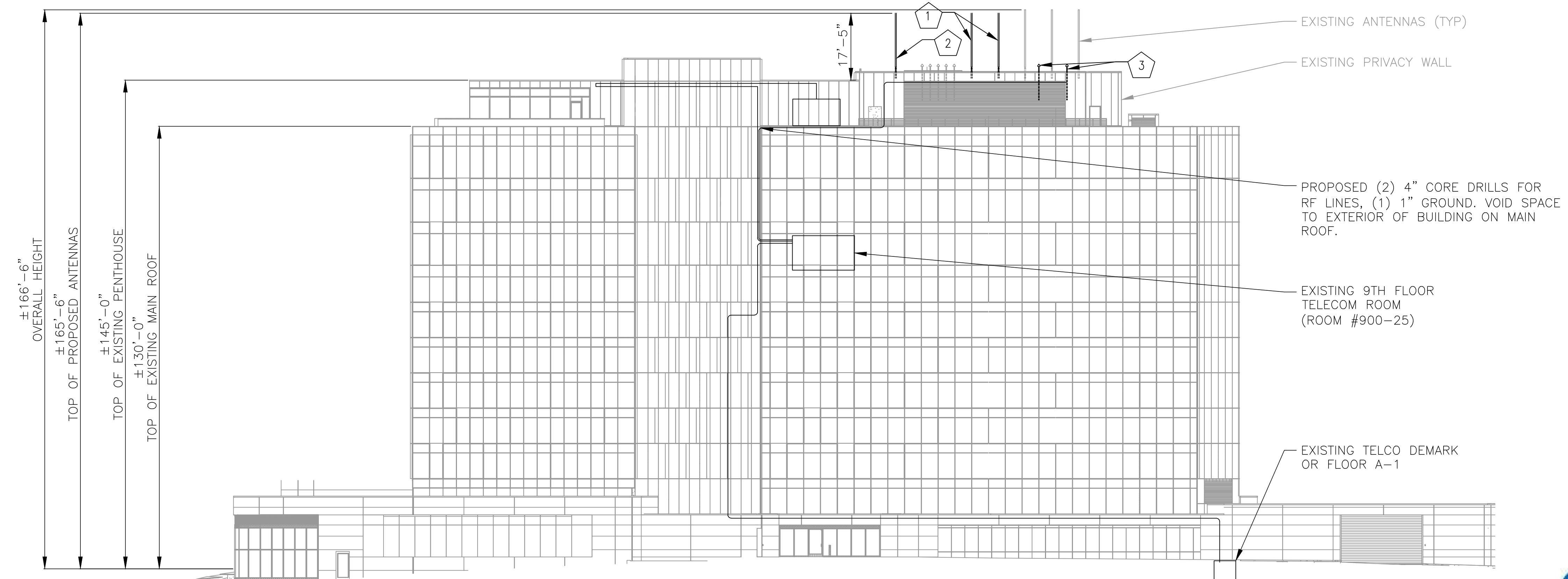
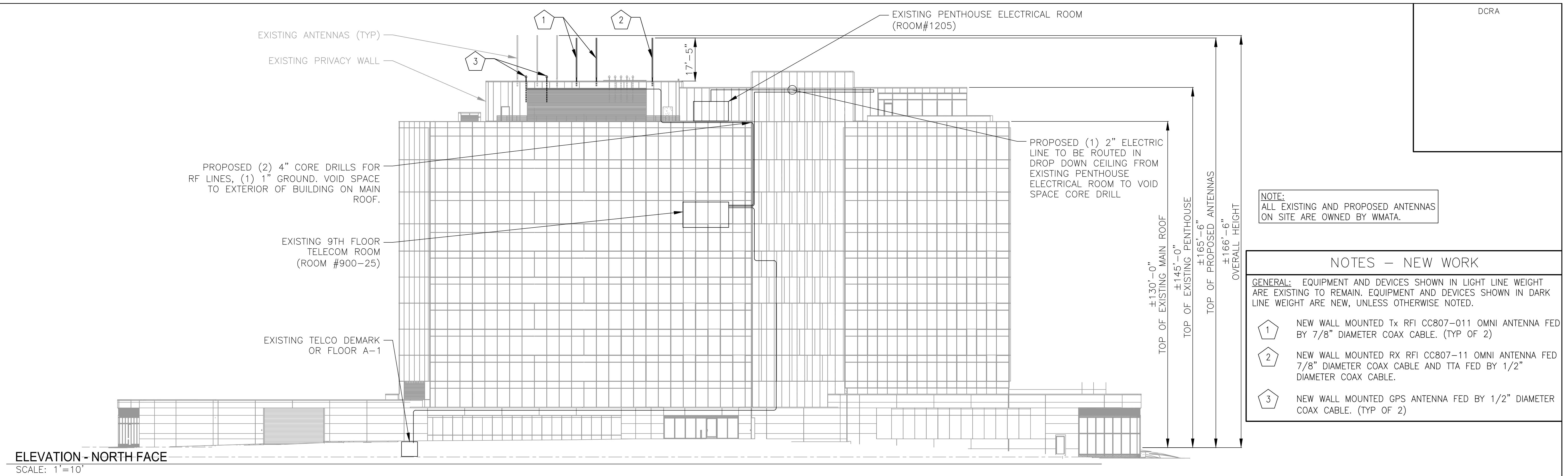
WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

HEET #
C0108

HEET TITLE
EQUIPMENT ROOM PLANS

KCI JOB NUMBER:
19240795B
WMATA JOB NUMBER:
WM700.AG.RF.09B.G001

13 OF 35



ELEVATION - SOUTH FACE

SCALE: 1' = 10'

SCALE: 1' = 10

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		NUMBER	TITLE	NO.	DATE	DESCRIPTION	
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		DATE					

 **WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

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APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

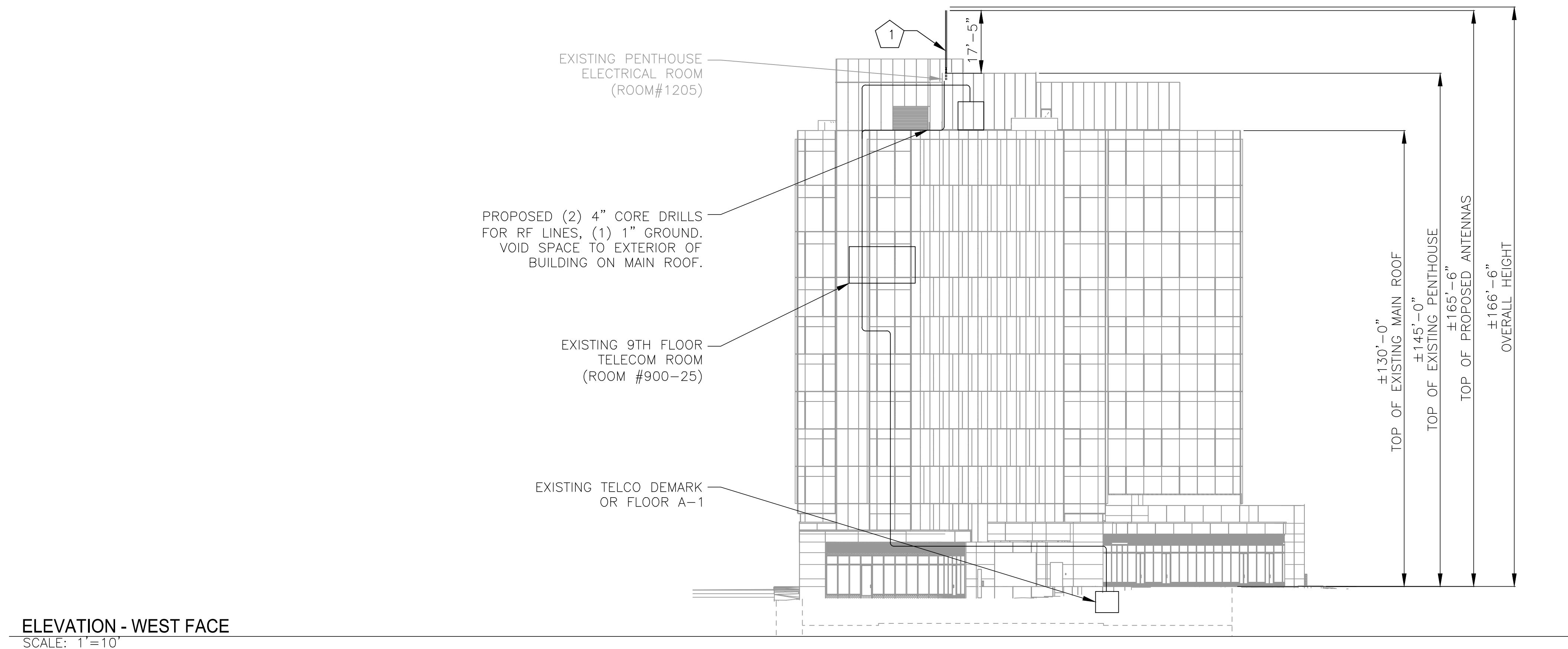
APPENDIX

**WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024**

SHEET #
C0201

SHEET TITLE
ELEVATION PLAN

14 OF 35

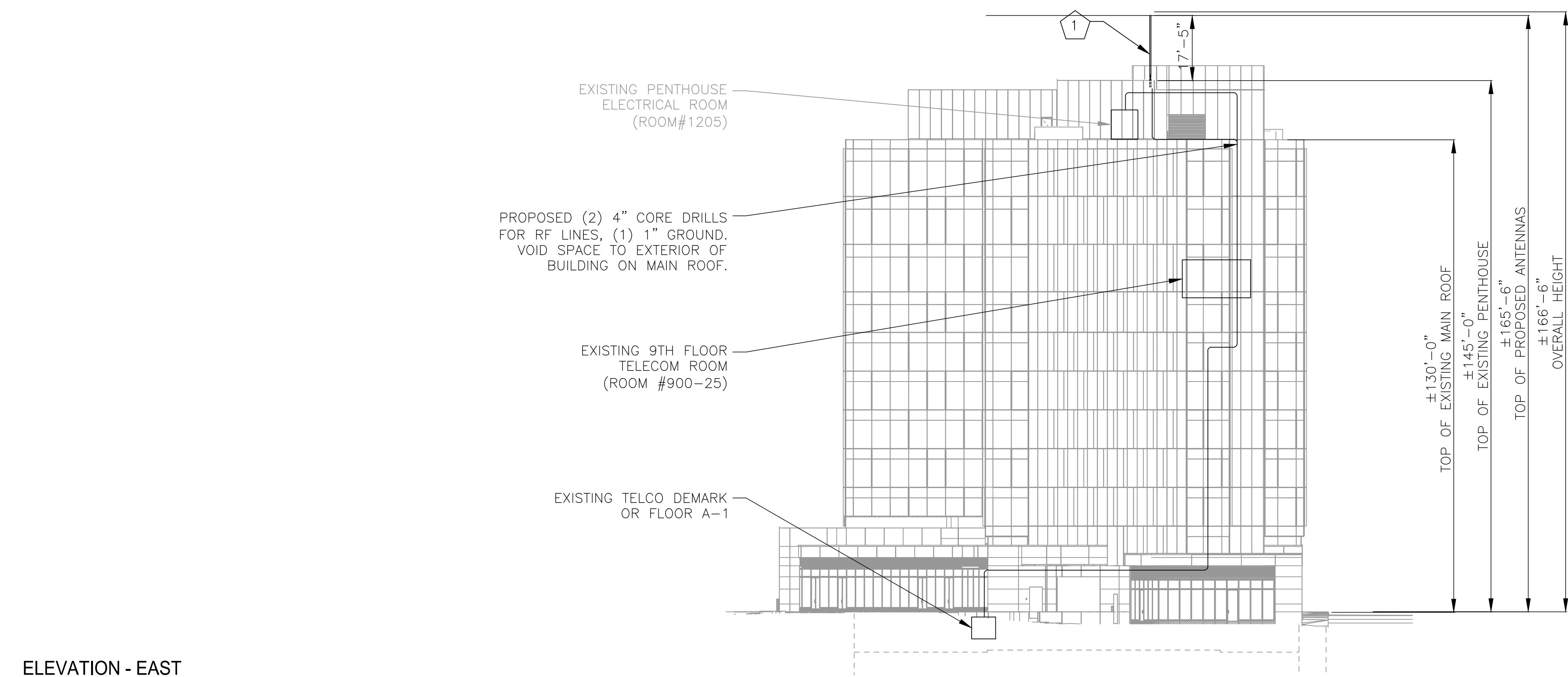


NOTE:
ALL EXISTING AND PROPOSED ANTENNAS
ON SITE ARE OWNED BY WMATA.

NOTES - NEW WORK

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

1 NEW WALL MOUNTED ANTENNA FED BY 7/8" DIAMETER COAX CABLE.



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CHECKED BY:	GT	10/15/24			1	11/20/24												
APPROVED BY:	GT	10/15/24			2	11/22/24												

WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024

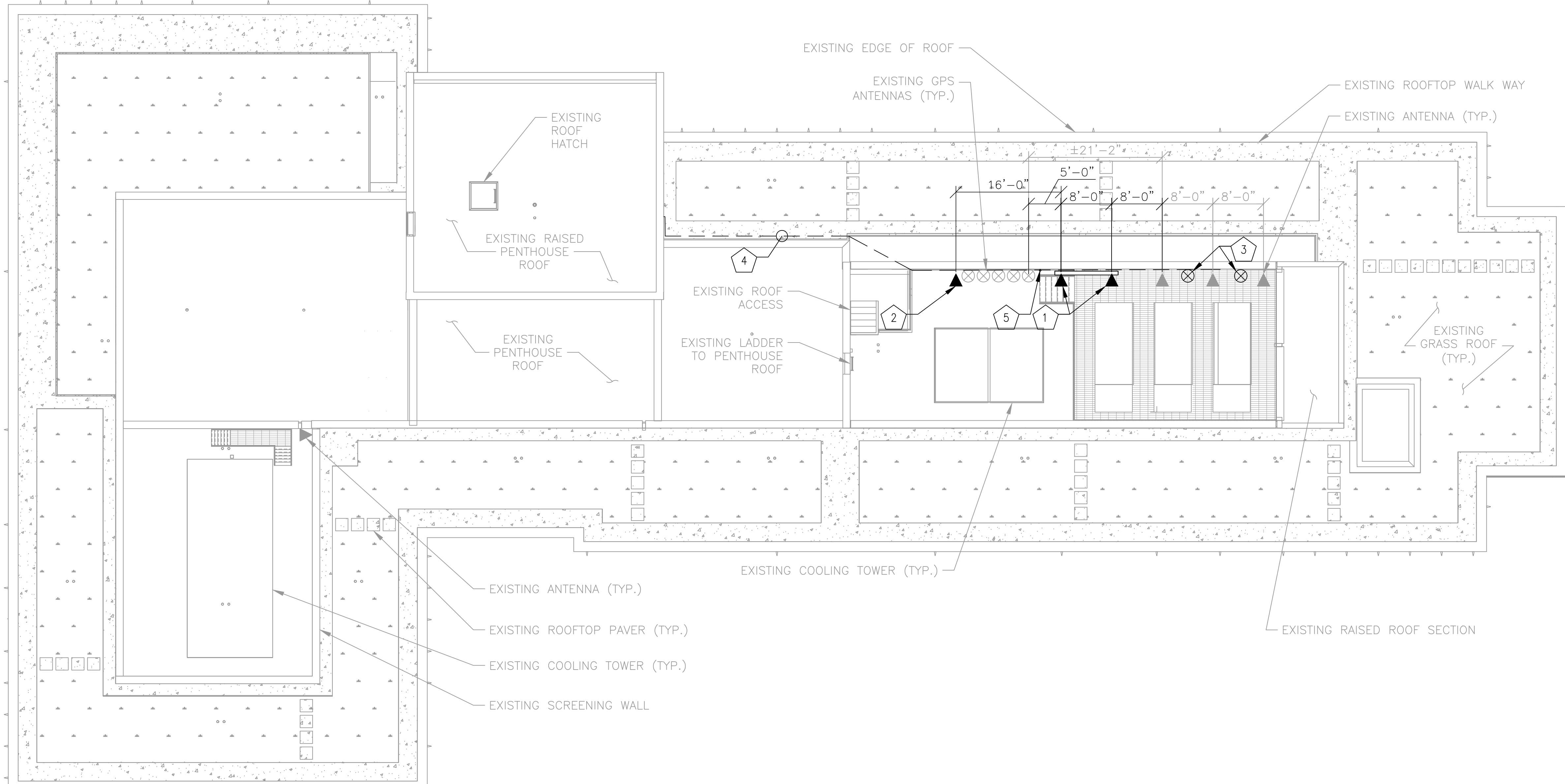
SHEET #
C0202

SHEET TITLE
ELEVATION PLAN

15 OF 35

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ROOF PLAN

SCALE: 1' = 10'

SCALE: 1' = 10'

DESIGNED BY:	JW	10/1
DRAWN BY:	JW	10/1
CHECKED BY:	GT	10/1
APPROVED BY:	GT	10/1

REFERENCE DRAWINGS

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APPROVED
JOHN C. HOFBAUER
ENGINEER OF RECORD

AN AREA TRANSIT AUTHORITY

APPROVED
ALLEN WONDER
PROJECT MANAGER

**WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
WASHINGTON, DC 20024**

SHEET #
60007

SHEET TITLE
ROOFTOP PLAN / ANTENNA
LAYOUT

16 OF 35



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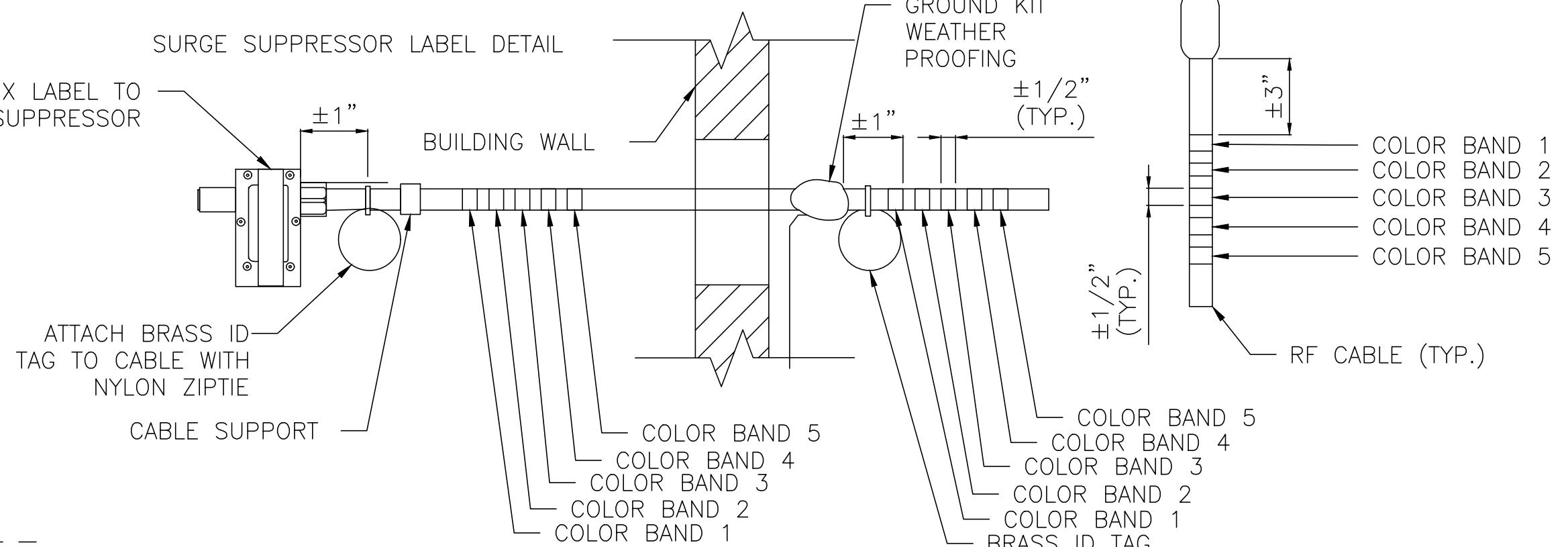
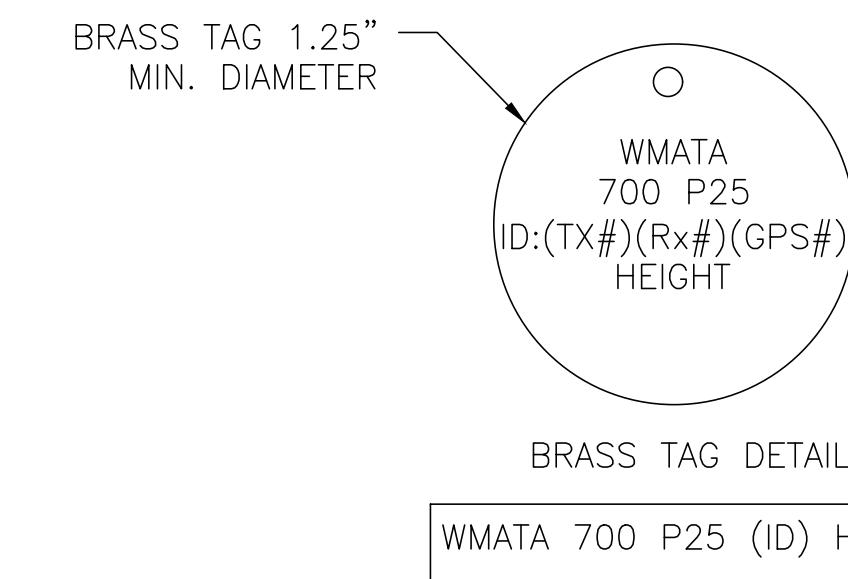
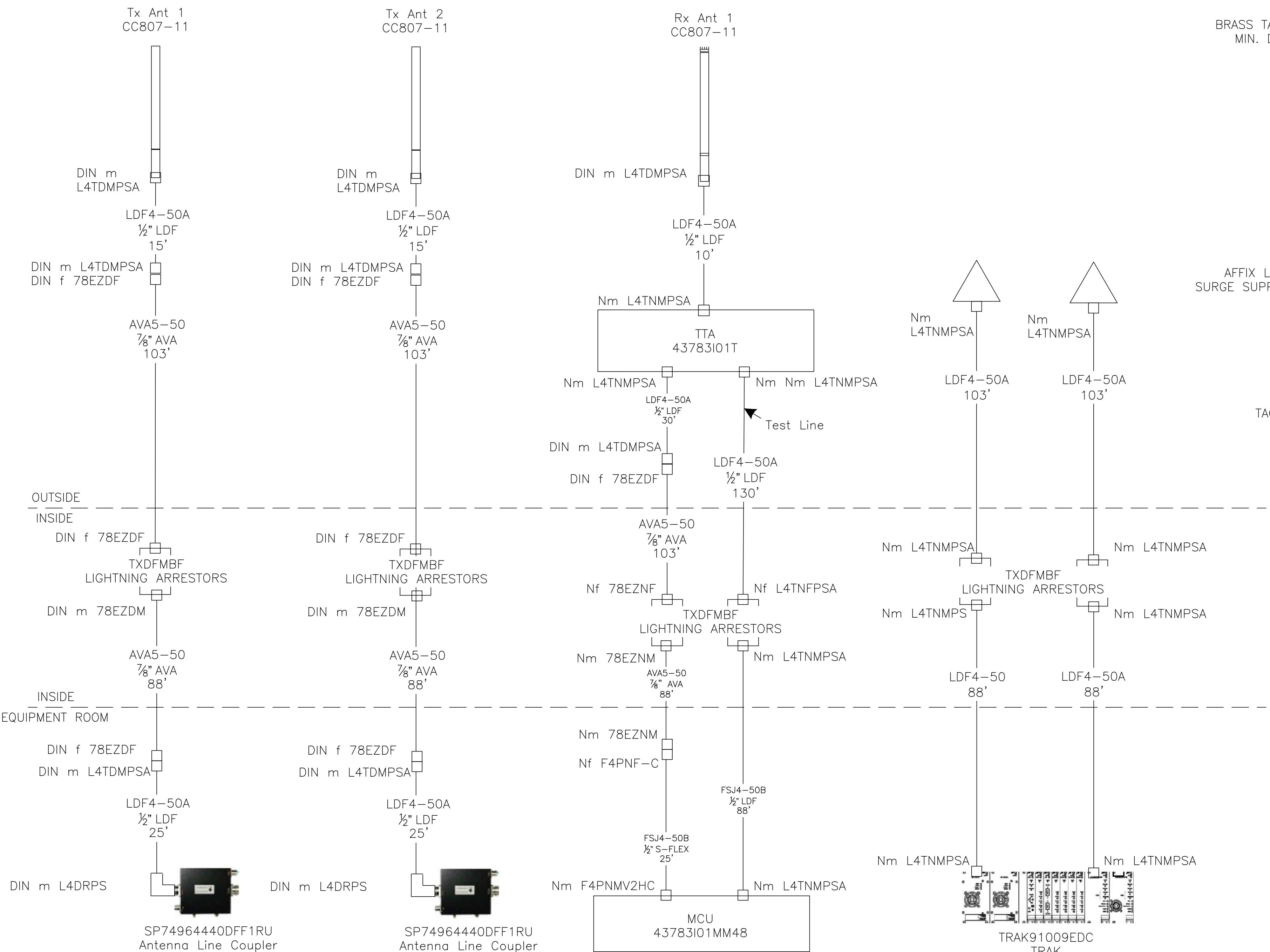
NOTES

1. CONSULT THE BUILDING ENGINEER OR MANAGER TO DETERMINE INFORMATION ABOUT ANY EXISTING BUILDING GROUNDING ELECTRODE SYSTEMS. THE BUILDING ENGINEER SHOULD ALSO BE INFORMED BEFORE ATTEMPTING TO WELD OR DRILL ON THE BUILDING ROOFTOP.
 2. DEPENDING ON THE AVAILABLE LOCATIONS FOR GROUNDING DOWN-CONDUCTORS AND THE ENTRY POINT OF THE RF TRANSMISSION LINES INTO THE BUILDING, IT MAY BE NECESSARY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE SYSTEM.

RF LINES AND ANTENNA SCHEDULE

	EXTERIOR FEEDLINE				INTERIOR FEEDLINE						UPPER JUMPER			TTA	TTA JUMPER			ANTENNA		
	ID	MAKE	SIZE	LENGTH	MAKE	SIZE	LENGTH	COLOR			MAKE	DIA	LENGTH	MAKE	MAKE	SIZE	LENGTH	MAKE	MODEL	AZIMUTH
		MODEL	DIA"	FEET	MODEL	DIA"	FEET	BAND 1	BAND 2	BAND 3	MODEL	INCH	FEET	MODEL	MODEL	DIA	FEET	MAKE	MODEL	DEGREES
TRANSMIT	Tx1	AVA5-50	7/8"	103	AVA5-50	7/8"	88	WHITE	BLUE		LDF4-50A	1/2"	15					RI	CC8071-1	OMNI
	Tx2	AVA5-50	7/8"	103	AVA5-50	7/8"	88	WHITE	BLUE	BLUE	LDF4-50A	1/2"	15					RF	CC8071-1	OMNI
RECEIVE	TEST1	LDF4-50A	1/2"	103	LDF4-50A	1/2"	88	WHITE	WHITE									BIRD		
	Rx1	AVA5-50	7/8"	103	AVA5-50	7/8"	88	WHITE	RED		LDF4-50A	1/2"	10	TECH	LDF4-50A	1/2"	30	RI	CC8071-1	OMNI
GPS	GPS1	LDF4-50A	1/2"	103	LDF4-50A	1/2"	88	WHITE	ORANGE									TRAK	L9	OMNI
	GPS2	LDF4-50A	1/2"	103	LDF4-50A	1/2"	88	WHITE	ORANGE	ORANGE								TRAK	L9	OMNI

DCRA



COLOR CODING AND LABELING DETAIL

SCALE: NONE

R-56: TRANSMISSION LINES SHALL BE IDENTIFIED IN A PERMANENT MANNER USING METAL TAGS, OR EQUIVALENT METHOD LOCATED AT THE ANTENNA, AT THE BOTTOM OF THE TOWER, AT THE SHELTER CABLE ENTRANCE AND INSIDE THE SHELTER OR BUILDING.



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700MHz ANTENNA SYSTEM

SCALE: NON

700MHz ANTENNA SYSTEM

SCALE: NONE

GPS ANTENNA SYSTEM

SCALE: NONE

DESIGNED BY:	JW	10/1
DRAWN BY:	JW	DA
CHECKED BY:	GT	10/1
APPROVED BY:	GT	10/1

REFERENCE DRAWINGS		
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2	11/22/24	ZONING DRAWINGS	SUBMISSION

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DEPARTMENT OF COMMUNICATIONS AND SIGNALING

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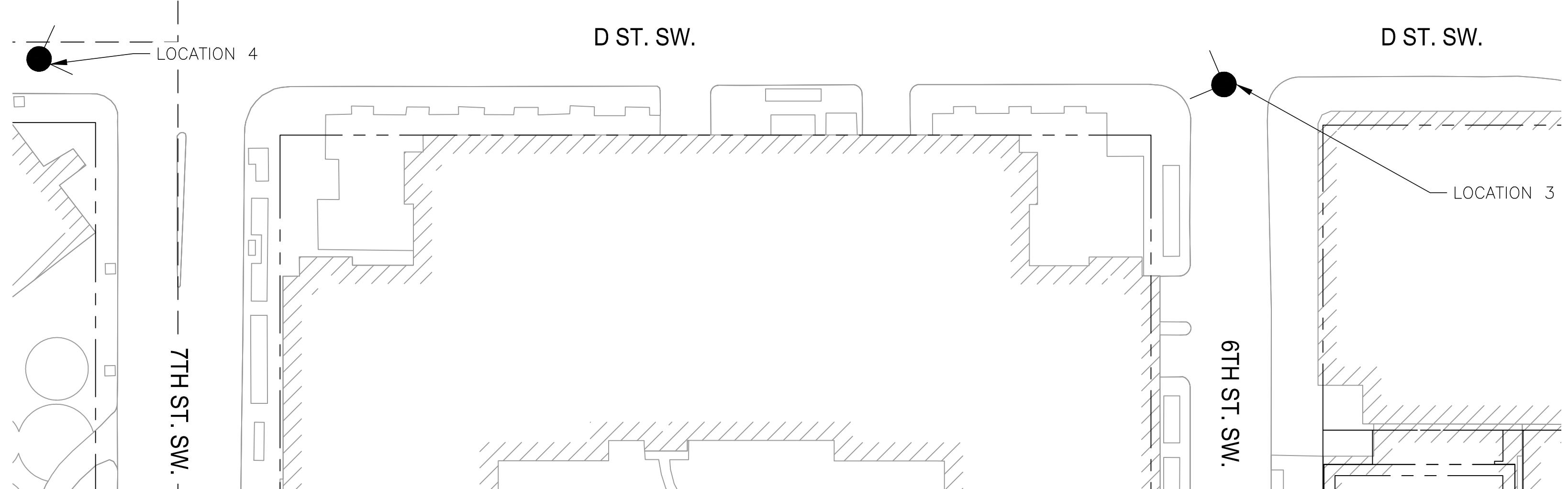
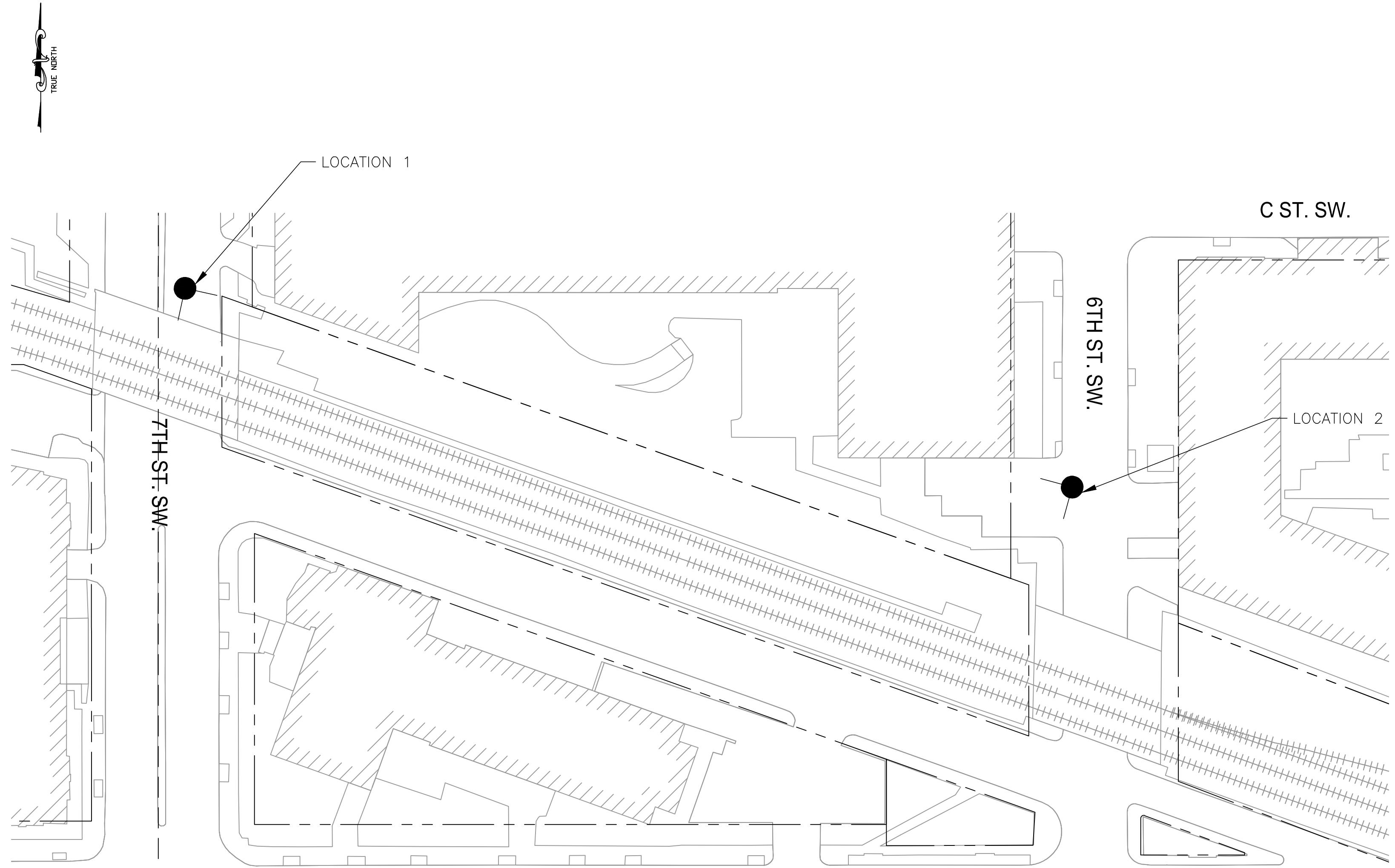
DEPARTMENT OF COMMUNICATIONS AND SIGNALING

**WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
L'ENFANT PLAZA
300 7TH STREET SW
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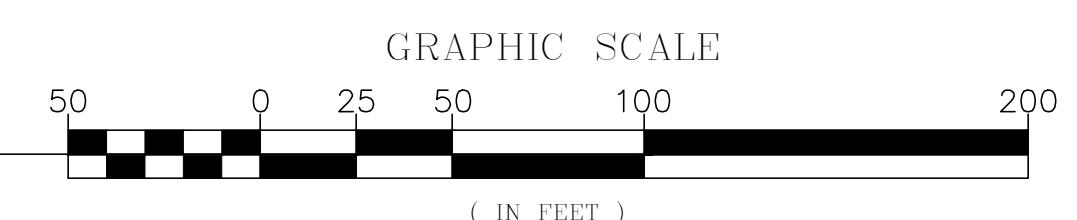
SHEET #
A010

SHEET TITLE
RF COMPONENT PLAN

19 OF 35



ANTENNA VISIBILITY PLAN
SCALE: 1'=50'



DESIGNED BY:	JW	10/15/24
DRAWN BY:	JW	10/15/24
CHECKED BY:	GT	10/15/24
APPROVED BY:	GT	10/15/24

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REVISIONS

NUMBER

TITLE

NO.

DATE

DESCRIPTION

ZONING DRAWINGS SUBMISSION

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9/17/24

ZONING DRAWINGS SUBMISSION

1

11/20/24

ZONING DRAWINGS SUBMISSION

2

11/22/24

ZONING DRAWINGS SUBMISSION

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DEPARTMENT OF COMMUNICATIONS AND SIGNALING

APPROVED JOHN C. HOFBAUER ENGINEER OF RECORD	APPROVED ALLEN WONDER PROJECT MANAGER	DATE
--	---	------



LOCATION 1 - STREET VIEW



LOCATION 2 - STREET VIEW



LOCATION 3 - STREET VIEW



LOCATION 4 - STREET VIEW

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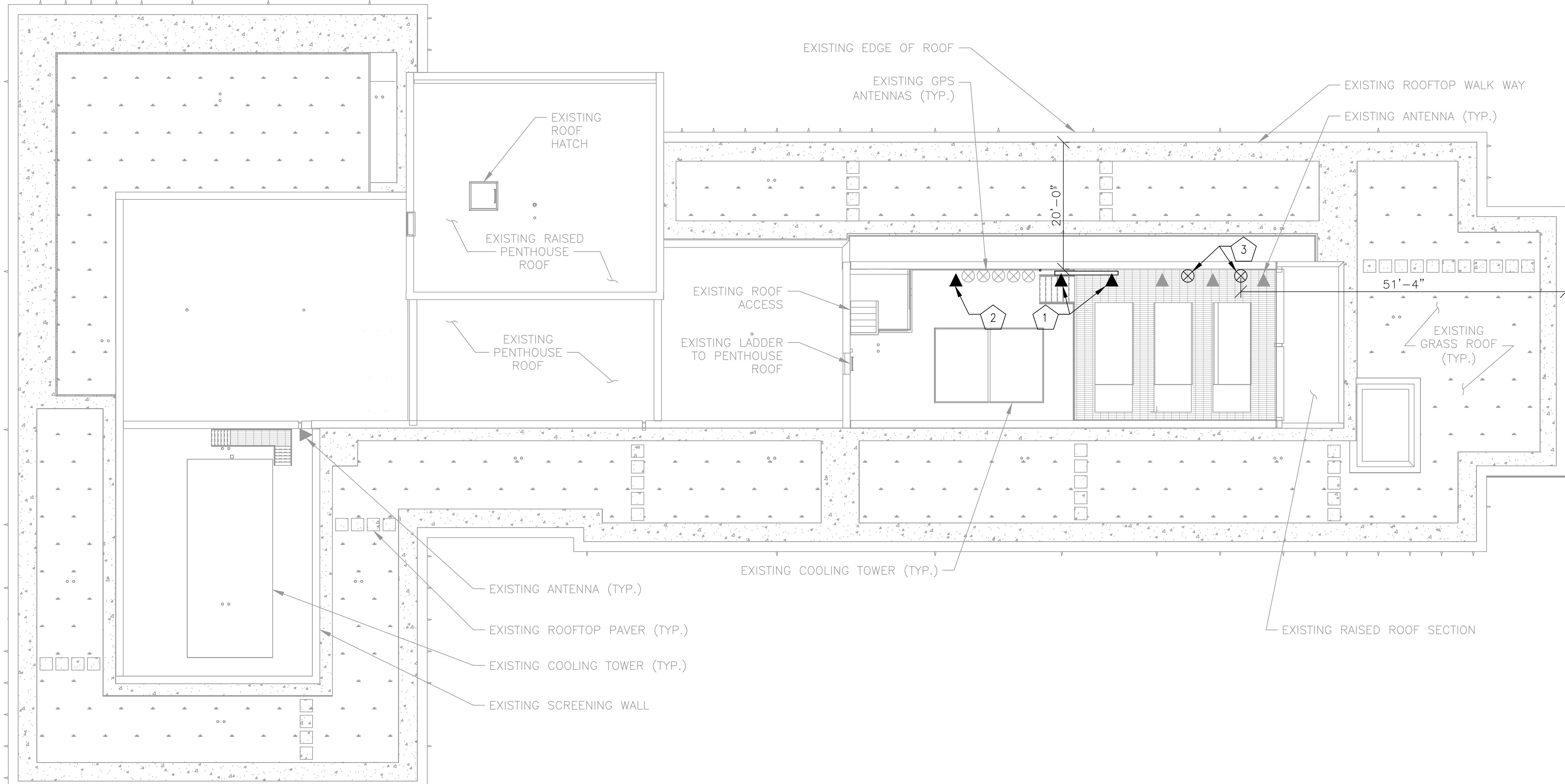
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WMATA 490MHz METRO RADIO EQUIPMENT RELOCATION
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SHEET #
H0001SHEET TITLE
VISIBILITY PLAN

20 OF 35

KCI JOB NUMBER:
192400796B
WMATA JOB NUMBER:
WM700.AG.RF.09B.G0001



ROOF PLAN

SCALE: 1'=10'

NOTE:
ALL EXISTING AND PROPOSED ANTENNAS
ON SITE ARE OWNED BY WMATA.

NOTES – NEW WORK

GENERAL: EQUIPMENT AND DEVICES SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN. EQUIPMENT AND DEVICES SHOWN IN DARK LINE WEIGHT ARE NEW, UNLESS OTHERWISE NOTED.

1 NEW WALL MOUNTED Tx RFI CC807-11 OMNI ANTENNA.

2 NEW WALL MOUNTED Rx RFI CC807-11 OMNI ANTENNA AND TTA.

3 NEW WALL MOUNTED GPS ANTENNA. (TYP OF 2)



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DESIGNED BY:	JW 10/15/24	NUMBER	TITLE	NO.	DATE	DESCRIPTION				M NO.	CONTRACT NO.	SCALE:	KCI JOB NUMBER: 192400796B WMATA JOB NUMBER: WM700.AG.RF.09B.G0001	H0002
DRAWN BY:	JW 10/15/24			0	9/17/24	ZONING DRAWINGS SUBMISSION								
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APPROVED BY:	GT 10/15/24			2	11/22/24	ZONING DRAWINGS SUBMISSION								
							APPROVED JOHN C. HOFBAUER ENGINEER OF RECORD	APPROVED ALLEN WONDER PROJECT MANAGER	DATE	FQ	WMATA-LTR-22-001	AS NOTED	20 OF 35	



1 H0003 TYPICAL ANTENNA

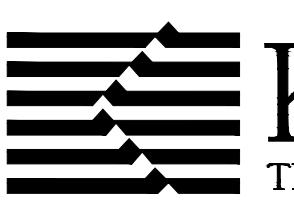


2 H0003 CURRENT ANTENNAS AND GPS



3 H0003 PROPOSED ANTENNAS AND GPS - PHOTO SIM

EXISTING ANTENNAS: 18'-5" IN HEIGHT
PROPOSED ANTENNAS: 17'-5" IN HEIGHT

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 **MOTOROLA SOLUTIONS**

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DESIGNED BY:	JW	10/15/24	DATE	NUMBER	TITLE	NO.	DATE	DESCRIPTION	DEPARTMENT OF COMMUNICATIONS AND SIGNALING			L'ENFANT PLAZA	300 7TH STREET SW	WASHINGTON, DC 20024	H0003
DRAWN BY:	JW	10/15/24	DATE			0	9/17/24	ZONING DRAWINGS SUBMISSION	APPROVED	JOHN C. HOFBAUER	DATE	APPROVED	ALLEN WONDER	DATE	20 OF 35
CHECKED BY:	GT	10/15/24	DATE			1	11/20/24	ZONING DRAWINGS SUBMISSION	ENGINEER OF RECORD			PROJECT MANAGER			
APPROVED BY:	GT	10/15/24	DATE			2	11/22/24	ZONING DRAWINGS SUBMISSION							
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									FQ	WMATA-LTR-22-001	AS NOTED				